COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-013
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Weatherford

COMPOSITE COAL LOG

BOREHOLE RECORD

Last Edited: 01-JUL-2009 09:06

Bit Size millimetres	Depth From metres	Depth To metres
152.500	0.00	209.00
152.500	209.00	347.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	152.500	0.00	15.00	0.00

REMARKS

COORDINATES
NAD83 UTM
14N/10TN

DRIFTING
DAMAGE

TOOL RUNS
WIRLSON MAX VRT

BORE WALL CONDI - MEDIUM
BORE HOLE CONDI - GOOD

WELL NOT FLOWING

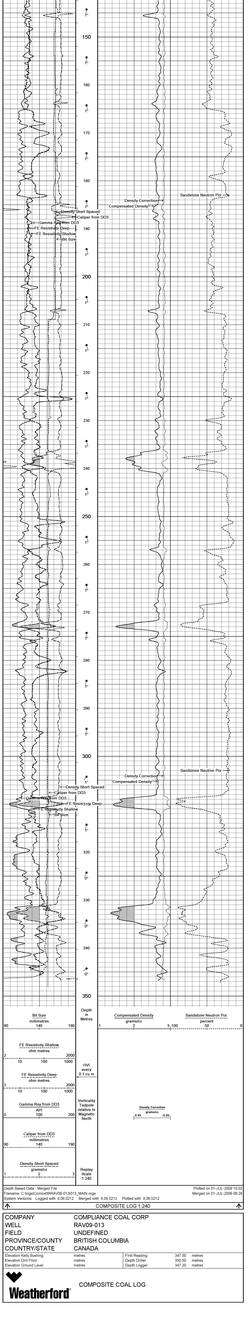
WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are not subject to our standard terms and conditions and price schedule.

COMPOSITE LOG 1:240

Depth Based Data - Merged File
Filename: C:\legacy\Canada\RAV09-013\013_MWN.mgs
System Versions: Logged with: 8.08.0212 Merged with: 8.08.0212 Plotted with: 8.08.0212

Plotted on 01-JUL-2009 10:50
Merged on 01-JUL-2009 09:38



Depth Based Data - Merged File
Filename: C:\legacy\Canada\RAV09-013\013_MWN.mgs
System Versions: Logged with: 8.08.0212 Merged with: 8.08.0212 Plotted with: 8.08.0212

Plotted on 01-JUL-2009 10:50
Merged on 01-JUL-2009 09:38

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-013
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Weatherford

COMPOSITE COAL LOG

Elevation Kelly Bushing	metres	First Reading	347.00 metres
Elevation Ground Level	metres	Last Reading	347.00 metres
Elevation Drill Floor	metres	Depth Logged	347.00 metres

100/06-29-084-18W6/00

Licence Number	0000000	Surface Location	100/06-29-084-18W6/00
Licensee	Hunterburn Energy Ltd.	Drilling Contractor	Hunterburn Energy Ltd.
Spud Date	2010-01-01	Rig Release Date	2010-01-01
Total Measured Depth (m)	1000.00	Total Vertical Depth (m)	1000.00
Surface Latitude	56.000000	Surface Longitude	-118.000000
Bottom Hole Latitude	56.000000	Bottom Hole Longitude	-118.000000

Remarks

Comments:
Well Type: Gas
Completion Type: Single
Perforations:
Stimulations:
Production Data:
Test Data:
Cores:
Drill Stem Tests:
Formation Tops:

Note: DATA CURVES FOR 100/06-29-084-18W6/00

The information contained in this report is based on information provided by the client and is subject to the terms and conditions of Hunterburn Energy Ltd. Hunterburn Energy Ltd. assumes no responsibility for the accuracy of the information contained in this report and shall not be liable for any loss, damage or injury resulting from the use of this report.

DENSITY-NEUTRON

Hunterburn Energy Ltd. 100/06-29-084-18W6/00 Scale: 1:200 Depth: 0.00 - 1000.00 m

DENSITY-NEUTRON
DENSITY-NEUTRON
CORRELATION
GAMMA RAY
CORRELATION
GAMMA RAY
Bottom Hole Temperature
Top of Cement
Top of Cement
Top of Cement

DOWNHOLE WIRELINE LOGGING

Weatherford

BOREHOLE RECORD

Bit Size	Top Log Interval	Last Entered 21-JUL-2006 09:06
152.400	0.000	1500.000
152.400	0.000	1500.000

CASING RECORD

Type	Size	Weight	Grade	Top Depth	Bottom Depth
	mm	kg/m		m	m
Casing	152.400	34.000	K55	0.000	1500.000

REMARKS

CLOBGANTES
CLOBGANTES
GAMMA
GAMMA
CALIPER
CALIPER
TVD SURVEY
TVD SURVEY
NORM WELL CHKS - MEDIUM
NORM WELL CHKS - LATEST
WELL NOT PLUGGED
WELL WAS CLOSED STAND ALONE

All measurements are presented in depth from the kelly bushing or other measurement datum which was set at an elevation of 0.000 m above the ground level. Unless otherwise specified, all measurements are made in the depth mode of the logging unit. Depth is calculated using a constant velocity of 1500 m/s. Tool measurements are subject to all applicable and common log error sources.

MAIN LOG 1:200

Log Begin Date: 18-JUL-2006 09:06 — Produced on 21-JUL-2006 09:06
Log Begin Depth: 0.000 m — Merged on 21-JUL-2006 09:06
Log End Date: 21-JUL-2006 09:06 — Produced on 21-JUL-2006 09:06
Log End Depth: 1500.000 m — Merged on 21-JUL-2006 09:06

Gamma Ray 0 - 200 API
Caliper from 100 mm to 400 mm
Bit Size 100 mm to 400 mm
Density Correction -0.500 g/cm3 to 0.500 g/cm3
Neutron Porosity 0.100 m3/m3 to 0.000 m3/m3
Resistivity Shallow 0.100 ohm metres to 2000.000 ohm metres
Resistivity Deep 0.100 ohm metres to 2000.000 ohm metres
Depth Metres 0 - 1500

REPEAT SECTION

Log Begin Date: 18-JUL-2006 09:06 — Produced on 21-JUL-2006 09:06
Log Begin Depth: 0.000 m — Merged on 21-JUL-2006 09:06
Log End Date: 21-JUL-2006 09:06 — Produced on 21-JUL-2006 09:06
Log End Depth: 1500.000 m — Merged on 21-JUL-2006 09:06

Gamma Ray 0 - 200 API
Caliper from 100 mm to 400 mm
Bit Size 100 mm to 400 mm
Density Correction -0.500 g/cm3 to 0.500 g/cm3
Neutron Porosity 0.100 m3/m3 to 0.000 m3/m3
Resistivity Shallow 0.100 ohm metres to 2000.000 ohm metres
Resistivity Deep 0.100 ohm metres to 2000.000 ohm metres
Depth Metres 0 - 1500

BEFORE SURVEY CALIBRATION

Logging Unit 2 Logging Date 21-JUL-2006 09:06 Last Entered 21-JUL-2006 09:06

General Constants: AC 000

Borehole Diameter	0.100	mm
Borehole Fluid Density	1.000	kg/m3
Mud Resistivity Temperature	20.000	degree C
Mud Resistivity	0.000	ohm metres
Temperature Processing	Water Level Gradient	
Depth Reference	Kelly Bushing	
HNGS Calibrate Curve and Differential Curve Number	0	
HNGS Calibrate Date	Calibrate Now 0000	
Neutron Porosity Source	Calculated	
Neutron Porosity Algorithm	Calibrated Calliper	Calliper Now 0000

Gamma Calibration: CDR 001

Gamma Calibration Number: 1

Field Calibration on 21-JUL-2006 11:16

	Measured	Calibrated (API)
Background	0.000	0.000
Calibrator	0.000	0.000
Calibration Factor	1.000	1.000

Density Calibration: CDR 001

Density Calibration Number: 1

Base Calibration on 21-JUL-2006 11:16

	Measured	Calibrated (kg/m3)
Reference 1	2000	2000
Reference 2	2500	2500

Zero Check

	Measured	Calibrated (kg/m3)
Zero Check	0.0	0.0

Density Calibration: CDR 001 — Last Entered on 21-JUL-2006 09:06

Density Source: Density
Density Source A: Density
Density Source B: Density
Calibrate Source For Processing: Calibrate From Density
Density Calibration Method: Two Point Calibration
Mud Density: 1.10 g/cm3
Density Offset: 0.00 g/cm3
Mud Type: Water Based
Matrix Density (g/cm3): Depth (m)
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00

Bed Size Normalization

	Measured g/cc	Calibrated g/cc
0001 Point 1	0.00	0.00
0002 Point 2	0.00	0.00
0003 Point 3	0.00	0.00

Dip Tube Normalization

	Measured g/cc	Calibrated g/cc
0001 Point 1	0.00	0.00
0002 Point 2	0.00	0.00
0003 Point 3	0.00	0.00

Calipers Calibration: CDR 001 — Base Calibration on 06-JUL-2006 09:06

Field Calibration on

Arm	Measured	Calibrated (mm)
1	0.000	152.400
2	0.000	152.400
3	0.000	152.400
4	0.000	152.400

Gamma Calibration: 1042 082

	Measured	Calibrated (API)
Background	0.000	0.000
Calibrator	0.000	0.000
Calibration Factor	0.000	0.000

Field Calibration on 21-JUL-2006 11:16

Gamma Calibration: 1042 082 — Last Entered on 21-JUL-2006 11:16

Gamma Source: Gamma
Gamma Source A: Calibrate
Gamma Source B: Calibrate
Calibrate Source For Processing: Calibrate From Gamma
Gamma Calibration Method: Two Point Calibration
Mud Gamma: 0.00 gamma
Gamma Offset: 0.00 gamma
Mud Type: Water Based

Bed Size Normalization

| | Measured gamma | Calibrated gamma

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-013		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	Final Reading	347.00 metres
Elevation Drill Floor	metres	Depth Order	350.50 metres
Elevation Ground Level	metres	Depth Logger	347.20 metres

Weatherford

MINI PLOT

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-013		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	Final Reading	347.00 metres
Elevation Drill Floor	metres	Depth Order	350.50 metres
Elevation Ground Level	metres	Depth Logger	347.20 metres

Hunterland

Drilling Fluids Report

Prepared for: Hunterland Exploration Inc.
Prepared by: Hunterland Drilling Fluids
Field: Kiskatinaw
Well: 16-07-083-13W6M
Surface Location: 16-07-083-13W6M
Licence: 0000000
Rig: Ensign 000
Spud Date: 00-00-0000
Report Date: 00-00-0000
Report Number: 000
Report Type: Daily Report

Contact Information

Name	Phone	Email
Jason Hunter	000-000-0000	jhunter@hunterland.ca
Jason Hunter	000-000-0000	jhunter@hunterland.ca

Operations Summary

Operations
Operations
Operations

VERTICALITY ANALYSIS

COMPLIANCE COAL CORP.
RAVEN 013
UNDEFINED
BRITISH COLUMBIA
CANADA

100/01-00	01-JUL-2009	09:38	01-JUL-2009	09:38	0.00	147.00	147.00	0.00	0.00	0.00	0.00	0.00	0.00
100/02-00	01-JUL-2009	09:38	01-JUL-2009	09:38	147.00	256.00	109.00	0.00	0.00	0.00	0.00	0.00	0.00
100/03-00	01-JUL-2009	09:38	01-JUL-2009	09:38	256.00	347.00	91.00	0.00	0.00	0.00	0.00	0.00	0.00

BOREHOLE RECORD

Last Edited: 01-JUL-2009 09:38

Bit Size	Depth From	Depth To
152.000	0.00	147.00
152.000	147.00	256.00
	256.00	347.00

CASING RECORD

Type	Size outside diameter	Depth From	Shoe Depth	Weight
	152.000	0.00	15.00	0.00

REMARKS

COORDINATES:
NORTHING
3485310

EASTING
0000000

TOO, RUNS
NIPCODE:INCUPT

BORE WALL CONDI - MEDIUM
BORE HOLE CONDI - GOOD

WELL NOT FLOWING

WELL WAS LOGGED STAND ALONE

Verticality Analysis Interpretation Notes

01-JUL-2009 09:37

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:10000(metres) and 1:40000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10mm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects such as ferrous casing or magnetic rock. Such effects will be identified by inconsistency. So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH — The depth recorded on the field logs for the borehole

TRUE DEPTH — The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.

HOLE TILT AND AZIMUTH — The sampled borehole orientation.

ABSA COORDINATES — The coordinates North and East from the target origin.

POLAR COORDINATES — The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

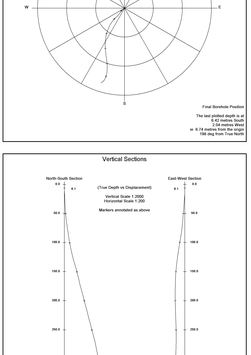
C:\logic\Vmode\RAVEN-013\054-238-M.dta

All Co-ordinates With Respect To True North, all depths in metres.
Feet Depth 5 ft. 0.05 North, 0.05 East of Origin

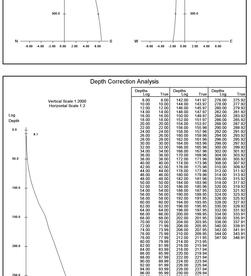
Date Processed: 01-JUL-2009
Date Logged: 30-JUN-2009

DEPTH	TRUE DEPTH	HOLE TILT	HOLE AZIMUTH	ABSA CO-ORDS NORTH	ABSA CO-ORDS EAST	POLAR
0.00	0.00	0.0	0.0	0.00	0.00	0.00
4.00	4.00	0.6	214.8	-0.02	-0.02	196 0.02
10.00	10.00	0.6	148.5	-0.03	0.01	169 0.03
14.00	14.00	0.5	148.5	-0.04	0.02	151 0.04
18.00	18.00	0.5	148.5	-0.05	0.03	149 0.05
19.00	19.00	0.5	272.1	-0.06	-0.02	195 0.06
20.00	20.00	0.5	272.1	-0.06	-0.05	214 0.06
21.00	21.00	0.5	272.1	-0.06	-0.09	211 0.09
22.00	22.00	0.4	308.6	-0.06	-0.06	215 0.11
23.00	23.00	0.4	308.6	-0.05	-0.04	215 0.12
24.00	24.00	0.5	271.1	-0.05	-0.02	215 0.14
26.00	26.00	0.6	257.5	-0.11	-0.11	225 0.16
28.00	28.00	0.6	257.5	-0.12	-0.20	226 0.23
30.00	30.00	0.6	262.2	-0.13	-0.13	226 0.19
34.00	34.00	0.5	262.4	-0.14	-0.15	227 0.20
36.00	36.00	0.5	262.4	-0.15	-0.16	227 0.22
38.00	38.00	0.5	262.4	-0.15	-0.18	228 0.24
40.00	40.00	0.6	251.5	-0.17	-0.20	228 0.26
42.00	42.00	0.6	251.5	-0.19	-0.23	229 0.29
44.00	44.00	0.6	251.5	-0.21	-0.26	230 0.32
46.00	46.00	0.6	230.5	-0.22	-0.29	230 0.35
48.00	48.00	0.9	230.5	-0.22	-0.36	230 0.43
50.00	50.00	0.9	230.5	-0.23	-0.39	229 0.46
52.00	52.00	0.9	230.5	-0.26	-0.39	228 0.49
54.00	54.00	0.9	238.6	-0.30	-0.39	228 0.51
56.00	56.00	0.9	238.6	-0.32	-0.39	227 0.51
58.00	58.00	0.9	238.6	-0.35	-0.39	226 0.52
60.00	60.00	1.0	231.4	-0.34	-0.39	226 0.49
62.00	62.00	1.0	231.4	-0.36	-0.39	225 0.49
64.00	64.00	1.0	231.4	-0.38	-0.39	224 0.49
66.00	66.00	1.0	238.6	-0.40	-0.41	224 0.54
68.00	68.00	1.0	238.6	-0.42	-0.43	223 0.59
70.00	70.00	1.0	238.6	-0.45	-0.45	223 0.63
71.00	71.00	0.9	223.1	-0.51	-0.47	223 0.69
72.00	72.00	0.9	223.1	-0.53	-0.49	223 0.72
73.00	73.00	0.9	223.1	-0.54	-0.51	223 0.77
76.00	77.99	1.5	224.3	-0.59	-0.55	223 0.81
80.00	81.99	1.5	224.3	-0.65	-0.61	223 0.89
84.00	85.99	1.5	224.3	-0.71	-0.68	223 0.98
88.00	89.99	1.5	224.3	-0.66	-0.63	223 0.93
92.00	93.99	1.5	224.3	-0.62	-0.59	223 0.87
96.00	97.99	1.5	224.3	-0.58	-0.54	223 0.81
98.00	99.99	1.7	241.0	-0.77	-0.72	223 1.05
100.00	101.99	1.7	241.0	-0.79	-0.74	223 1.09
102.00	103.99	1.7	241.0	-0.83	-0.77	223 1.12
106.00	107.99	1.5	253.5	-0.87	-0.82	223 1.19
108.00	109.99	1.5	253.5	-0.89	-0.84	223 1.22
110.00	111.99	1.5	253.5	-0.91	-0.86	223 1.25
112.00	113.99	1.5	238.6	-0.97	-0.92	223 1.34
114.00	115.99	1.5	238.6	-1.00	-0.95	223 1.38
116.00	117.99	1.5	238.6	-1.04	-0.98	223 1.42
118.00	119.99	1.5	238.6	-1.07	-1.01	223 1.47
120.00	121.99	1.5	222.6	-1.41	-1.23	221 1.87
122.00	123.99	1.5	222.6	-1.45	-1.26	221 1.92
124.00	125.99	1.5	222.6	-1.51	-1.31	221 2.00
126.00	127.99	2.0	217.1	-1.55	-1.30	220 2.03
128.00	129.99	2.0	217.1	-1.60	-1.34	219 2.09
130.00	131.99	2.0	217.1	-1.67	-1.39	219 2.15
134.00	133.97	2.1	212.0	-1.73	-1.36	219 2.21
136.00	135.97	1.8	188.8	-1.78	-1.39	219 2.26
138.00	137.97	1.8	188.8	-1.85	-1.44	217 2.35
140.00	139.97	1.7	188.8	-1.91	-1.49	217 2.40
142.00	141.97	1.7	188.8	-1.96	-1.53	216 2.46
144.00	143.97	1.7	217.1	-2.00	-1.56	216 2.52
146.00	145.97	1.7	202.1	-2.09	-1.52	216 2.58
148.00	147.97	1.7	202.1	-2.14	-1.54	215 2.64
150.00	149.97	1.7	202.1	-2.19	-1.55	215 2.69
152.00	151.97	1.7	193.9	-2.25	-1.57	215 2.74
154.00	153.97	1.7	193.9	-2.31	-1.58	214 2.79
156.00	155.97	1.7	196.9	-2.34	-1.61	214 2.83
158.00	157.96	1.7	196.9	-2.39	-1.60	214 2.86
160.00	159.96	1.7	196.9	-2.44	-1.62	213 2.91
162.00	161.96	1.7	196.9	-2.49	-1.64	213 2.96
164.00	163.96	1.5	193.0	-2.57	-1.62	212 3.00
166.00	165.96	1.5	193.0	-2.62	-1.63	212 3.04
168.00	167.96	1.5	193.0	-2.67	-1.65	212 3.08
172.00	171.96	1.4	188.6	-2.72	-1.64	211 3.17
174.00	173.96	1.4	188.6	-2.76	-1.65	211 3.21
176.00	175.96	1.4	188.6	-2.82	-1.66	210 3.25
178.00	177.96	1.7	194.7	-2.88	-1.68	210 3.32
180.00	179.96	1.7	194.7	-2.94	-1.70	209 3.39
182.00	181.96	1.7	194.7	-2.99	-1.72	209 3.42
184.00	183.96	1.9	191.3	-3.04	-1.69	209 3.47
186.00	185.96	1.7	186.8	-3.09	-1.68	208 3.51
188.00	187.96	1.7	186.8	-3.15	-1.69	208 3.56
190.00	189.95	1.7	186.8	-3.20	-1.67	207 3.61
192.00	191.95	1.7	186.8	-3.26	-1.66	207 3.65
194.00	193.95	1.7	186.8	-3.31	-1.64	206 3.69
196.00	195.95	1.4	179.1	-3.37	-1.66	206 3.75
198.00	197.95	1.4	179.1	-3.42	-1.66	205 3.79
200.00	199.95	1.4	179.1	-3.47	-1.66	205 3.83
204.00	203.95	1.6	194.7	-3.53	-1.62	203 4.16
206.00	205.95	1.6	194.7	-3.59	-1.64	203 4.21
208.00	207.94	1.6	194.7	-3.64	-1.66	202 4.26
210.00	209.94	1.6	194.1	-3.69	-1.61	202 4.30
212.00	211.94	1.6	194.1	-3.74	-1.63	201 4.35
214.00	213.94	1.6	194.1	-3.79	-1.65	201 4.40
216.00	215.94	1.6	194.7	-3.83	-1.62	200 4.43
218.00	217.94	1.6	193.1	-4.19	-1.58	199 4.80
220.00	219.94	1.6	193.1	-4.24	-1.59	199 4.85
222.00	221.94	1.6	193.1	-4.29	-1.60	198 4.89
224.00	223.94	1.7	178.9	-4.35	-1.56	200 4.92
226.00	225.94	1.7	178.9	-4.40	-1.56	199 4.97
228.00	227.94	1.7	178.9	-4.45	-1.56	198 5.02
230.00	229.94	1.7	185.4	-4.50	-1.53	198 5.06
232.00	231.94	1.7	185.4	-4.55	-1.54	197 5.11
234.00	233.94	1.7	185.4	-4.61	-1.55	197 5.16
236.00	235.94	1.7	177.2	-4.66	-1.52	196 5.20
238.00	237.94	1.7	177.2	-4.72	-1.52	196 5.25
240.00	239.94	1.7	177.2	-4.78	-1.52	195 5.30
242.00	241.93	1.7	181.1	-4.82	-1.50	195 5.35
244.00	243.93	1.7	181.1	-4.87	-1.50	194 5.39
246.00	245.93	1.7	181.1	-4.92	-1.50	194 5.43
248.00	247.93	1.6	186.2	-4.98	-1.49	193 5.50
250.00	249.93	1.6	186.2	-5.04	-1.49	193 5.56
252.00	251.93	1.6	186.2	-5.09	-1.49	192 5.61
254.00	253.93	1.6	186.2	-5.14	-1.49	192 5.66
264.00	263.93	1.4	192.8	-5.37	-1.56	189 5.92
266.00	265.93	1.4	192.8	-5.41	-1.57	188 5.97
268.00	267.93	1.4	192.8	-5.45	-1.58	188 6.02
270.00	269.93	1.2	187.5	-5.49	-1.57	187 6.06
272.00	271.93	1.2	187.5	-5.52	-1.58	187 6.09
274.00	273.93	1.2	187.5	-5.56	-1.59	186 6.13
276.00	275.93	1.2	187.5	-5.59	-1.60	186 6.16
278.00	277.93	1.2	187.5	-5.63	-1.61	185 6.20
280.00	279.93	1.2	187.5	-5.66	-1.62	185 6.23
282.00	281.92	1.2	187.5	-5.70	-1.63	184 6.26
284.00	283.92	1.2	187.5	-5.73	-1.64	184 6.29
286.00	285.92	1.2	187.5	-5.77	-1.65	183 6.32
288.00	287.92	1.2	187.5	-5.80	-1.66	183 6.35
290.00	289.92	1.2	187.5	-5.83	-1.67	182 6.38
292.00	291.92	1.2	187.5	-5.87	-1.68	182 6.41
294.00	293.92	1.2	187.5	-5.90	-1.69	181 6.44
296.00	295.92	1.0	189.9	-5.91	-1.70	181 6.46
298.00	297.92	1.0	189.9	-5.93	-1.71	180 6.48
300.00	299.92	1.0	189.9	-5.95	-1.72	180 6.50
302.00	301.92	0.9	203.6	-5.99	-1.65	179 6.52
304.00	303.92	0.9	203.6	-6.02	-1.64	179 6.54
306.00	305.92	0.9	203.6	-6.04	-1.63	178 6.56
308.00	307.92	0.9	202.0	-6.08	-1.59	178 6.58
310.00	309.92	0.9	202.0	-6.09	-1.58	177 6.59
312.00	311.92	0.9	202.0	-6.11	-1.57	177 6.61
314.00	313.92	0.9	202.0	-6.08	-1.59	176 6.61
316.00	315.92	0.9	214.4	-6.06	-1.63	176 6.62
318.00	317.92	0.9	214.4	-6.04	-1.67	175 6.64
320.00	319.92	0.9	214.4	-6.15	-1.74	196 6.80
322.00	321.92	0.9	214.4	-6.21	-1.78	195 6.87
324.00	323.92	0.9	214.4	-6.21	-1.74	195 6.86
326.00	325.92	0.9	230.8	-6.23	-1.79	196 6.89
328.00	327.92	0.9	230.8	-6.24	-1.83	196 6.91
330.00	329.92	0.9	230.8	-6.26	-1.83	196 6.94
332.00	331.92	0.8	258.9	-6.30	-1.85	196 6.97
334.00	333.92	0.8	258.9	-6.32	-1.87	196 6.99
336.00	335.92	0.8	258.9	-6.34	-1.88	197 7.01
338.00	337.92	0.8	258.9	-6.36	-1.90	197 7.04
340.00	339.92	0.8	258.9	-6.38	-1.91	197 7.06
342.00	341.92	0.8	258.9	-6.40	-1.93	197 7.08
344.00	343.92	0.8	258.9	-6.41	-1.94	197 7.11
346.00	345.92	0.8	258.9	-6.43	-1.96	197 7.13
347.00	346.92	0.8	258.9	-6.44	-1.97	197 7.14

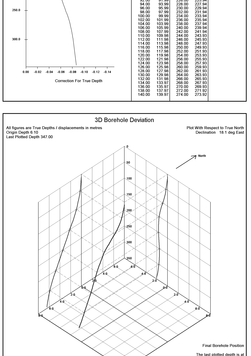
Cross Section



Vertical Sections

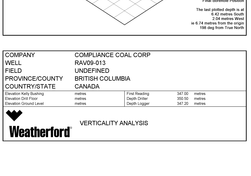


Depth Correction Analysis



Depths		Depths		Depths	
0.00	0.00	143.00	143.00	276.00	277.92
10.00	10.00	144.00	145.01	278.00	279.92
14.00	14.00	146.00	147.01	280.00	281.92
18.00	18.00	148.00	149.01	282.00	283.92
19.00	19.00	150.00	149.97	284.00	285.93
20.00	20.00	152.00	151.97	286.00	287.93
21.00	21.00	154.00	153.97	288.00	289.93
22.00	22.00	156.00	155.97	290.00	291.93
23.00	23.00	158.00	157.96	292.00	293.93
24.00	24.00	160.00	159.96	294.00	295.93
26.00	26.00	162.00	161.96	296.00	297.93
28.00	28.00	164.00	163.96	298.00	299.93
30.00	30.00	166.00	165.96	300.00	301.93
34.00	34.00	168.00	167.96	302.00	303.93
36.00	36.00	172.00	171.96	306.00	305.92
38.00	38.00	174.00	173.96	308.00	307.92
40.00	40.00	176.00	175.96	310.00	309.92
42.00	42.00	178.00	177.96	312.00	311.92
44.00	44.00	180.00	179.96	314.00	313.92
46.00	46.00	182.00	181.96	316.00	315.92
48.00	48.00	184.00	183.96	318.00	317.92
50.00	50.00	186.00	185.96	320.00	319.92
52.00	52.00	188.00	187.96	322.00	321.92
54.00	54.00	190.00	189.95	324.00	323.92
56.00	56.00	192.00	191.95	326.00	325.92
58.00	58.00	194.00	193.95	328.00	327.92
60.00	60.00	196.00	195.95	330.00	329.92
62.00	62.00	198.00	197.95	332.00	331.92
64.00	64.00	200.00	199.95	334.00	333.92
66.00	66.00	204.00	203.95	336.00	335.92
68.00	68.00	206.00	205.95	338.00	337.92
70.00	70.00	208.00	207.94	340.00	339.92
71.00	71.00	210.00	209.94	342.00	341.92
72.00	72.00	212.00	211.94	344.00	343.92
73.00	73.00	214.00	213.94	347.00	346.92
76.00	77.99	216.00	215.94		
80.00	81.99	218.00	217.94		
84.00	85.99	220.00	219.94		
88.00	89.99	222.00	221.94		
92.00	93.99	224.00	223.94		
96.00	97.99	226.00	225.94		
98.00	99.99	228.00	227.94		
100.00	101.99	230.00	229.94		
102.00	103.99	232.00	231.94		
106.00	107.99	234.00	233.94		
108.00	109.99	236.00	235.94		
110.00	111.99	238.00	237.94		
112.00	113.99	240.00	239.94		
114.00	115.99	242.00	241.93		
116.00	117.99	244.00	243.93		
118.00	119.99	246.00	245.93		
120.00	121.99	248.00	247.93		
122.00	123.99	250.00	249.93		
124.00	125.99	252.00	251.93		
126.00	127.99	254.00	253.93		
128.00	129.99	264.00	263.93		
130.00	131.99	266.00	265.93		
132.00	133.97	268.00	267.93		
134.00	135.97	270.00	269.93		
136.00	137.97	272.00	271.92		
138.00	139.97	274.00	273.92		

3D Borehole Deviation



COMPANY	COMPLIANCE COAL CORP				
WELL	RAVEN 013				
FIELD	UNDEFINED				
PROVINCE/COUNTY	BRITISH COLUMBIA				
COUNTRY/STATE	CANADA				
Elevation Kelly Bushing	metres	Total Reading	347.00	metres	
Elevation Ground Level	metres	Total Logged	347.00	metres	
Elevation Ground Level	metres	Depth Logged	347.00	metres	

Weatherford

VERTICALITY ANALYSIS

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-013
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Weatherford

COMPOSITE COAL LOG

BOREHOLE RECORD

Last Edited: 01-JUL-2009 09:06

Bit Size millimetres	Depth From metres	Depth To metres
152.500	0.00	209.00
152.500	209.00	347.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	152.500	0.00	15.00	0.00

REMARKS

COORDINATES
NAD83 UTM
14N/10TN

DRIFTING
DAMAGE

TOOL RUNS
WIRLSON MAX VRT

BORE WALL CONDI - MEDIUM
BORE HOLE CONDI - GOOD

WELL NOT FLOWING

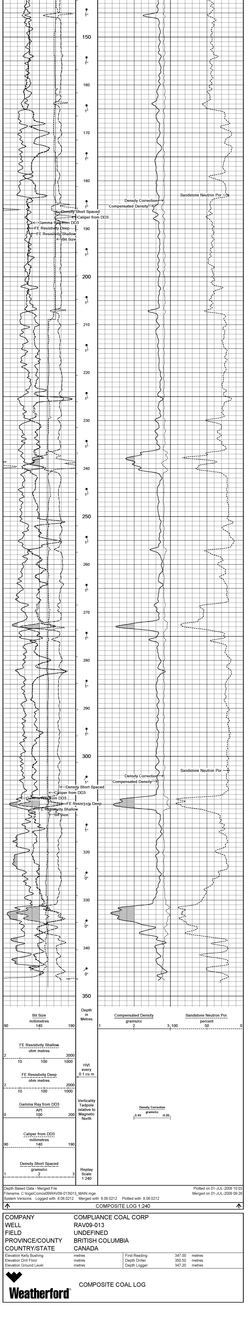
WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are not subject to our standard terms and conditions and price schedule.

COMPOSITE LOG 1:240

Depth Based Data - Merged File
Filename: C:\legacy\Canada\RAV09-013\013_MWN.mgs
System Versions: Logged with: 8.08.0212 Merged with: 8.08.0212 Plotted with: 8.08.0212

Plotted on 01-JUL-2009 10:50
Merged on 01-JUL-2009 09:38



Depth Based Data - Merged File
Filename: C:\legacy\Canada\RAV09-013\013_MWN.mgs
System Versions: Logged with: 8.08.0212 Merged with: 8.08.0212 Plotted with: 8.08.0212

Plotted on 01-JUL-2009 10:50
Merged on 01-JUL-2009 09:38

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-013
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Weatherford

COMPOSITE COAL LOG

Elevation Kelly Bushing	metres	First Reading	347.00 metres
Elevation Ground Level	metres	Last Reading	347.00 metres
Elevation Drill Floor	metres	Depth Logged	347.00 metres

100/06-29-084-18W6/00

Licence Number	0000000	Surface Location	100/06-29-084-18W6/00
Licensee	Hunterburn Energy Ltd.	Drilling Contractor	Hunterburn Energy Ltd.
Spud Date	2010-01-01	Rig Release Date	2010-01-01
Total Measured Depth (m)	1000.00	Total Vertical Depth (m)	1000.00
Surface Latitude	56.000000	Surface Longitude	-118.000000
Bottom Hole Latitude	56.000000	Bottom Hole Longitude	-118.000000

Remarks

Comments:
Well Type: Gas
Completion Type: Single
Perforations:
Stimulations:
Production Data:
Test Data:
Cores:
Drill Stem Tests:
Formation Tops:

Note: DATA CURVES FOR 100/06-29-084-18W6/00

The information contained in this report is based on information provided by the client and is subject to the terms and conditions of Hunterburn Energy Ltd. Hunterburn Energy Ltd. assumes no responsibility for the accuracy of the information contained in this report and shall not be liable for any loss, damage or injury resulting from the use of this report.

DENSITY-NEUTRON

Hunterburn Energy Ltd. 100/06-29-084-18W6/00 Scale: 1:200 Depth: 0.00 - 1000.00 m

DENSITY-NEUTRON
DENSITY-NEUTRON
CORRELATION
GAMMA RAY
CORRELATION
GAMMA RAY
Bottom Hole Temperature
Top of Cement
Top of Cement
Top of Cement

DOWNHOLE WIRELINE LOGGING

Weatherford

BOREHOLE RECORD

Bit Size	Top Log Interval	Last Entered 21-JUL-2006 09:06
152.400	0.000	1500.000
152.400	0.000	1500.000

CASING RECORD

Type	Size	Weight	Grade	Top Depth	Bottom Depth
	mm	kg/m		m	m
Casing	152.400	34.000	K55	0.000	1500.000

REMARKS

CLOBGANTES
CLOBGANTES
GAMMA
GAMMA
CALIPER
CALIPER
TVD SURVEY
TVD SURVEY
NORM WELL CHKS - MEDIUM
NORM WELL CHKS - LATEST
WELL NOT PLUGGED
WELL WAS CLOSED STAND ALONE

All measurements are presented in depth from the kelly bushing or other measurement datum which was set at an elevation of 0.000 m above the ground level. Unless otherwise specified, all measurements are made in the depth mode of the logging unit. Depth is calculated using a constant velocity of 1500 m/s. Tool measurements are subject to all applicable and common log error sources.

MAIN LOG 1:200

Log Begin Date: 18-JUL-2006 09:06 — Produced on 21-JUL-2006 09:06
Log Begin Depth: 0.000 m — Merged on 21-JUL-2006 09:06
Log End Date: 21-JUL-2006 09:06 — Produced on 21-JUL-2006 09:06
Log End Depth: 1500.000 m — Merged on 21-JUL-2006 09:06

Gamma Ray 0 - 200 API
Caliper from 100 mm to 400 mm
Bit Size 100 mm to 400 mm
Density Correction -0.500 g/cm3 to 0.500 g/cm3
Neutron Porosity 0.100 m3/m3 to 0.000 m3/m3
Resistivity Shallow 0.100 ohm metres to 2000.000 ohm metres
Resistivity Deep 0.100 ohm metres to 2000.000 ohm metres
Depth Metres 0 - 1500

REPEAT SECTION

Log Begin Date: 18-JUL-2006 09:06 — Produced on 21-JUL-2006 09:06
Log Begin Depth: 0.000 m — Merged on 21-JUL-2006 09:06
Log End Date: 21-JUL-2006 09:06 — Produced on 21-JUL-2006 09:06
Log End Depth: 1500.000 m — Merged on 21-JUL-2006 09:06

Gamma Ray 0 - 200 API
Caliper from 100 mm to 400 mm
Bit Size 100 mm to 400 mm
Density Correction -0.500 g/cm3 to 0.500 g/cm3
Neutron Porosity 0.100 m3/m3 to 0.000 m3/m3
Resistivity Shallow 0.100 ohm metres to 2000.000 ohm metres
Resistivity Deep 0.100 ohm metres to 2000.000 ohm metres
Depth Metres 0 - 1500

BEFORE SURVEY CALIBRATION

Logging Unit 2 Logging Date 21-JUL-2006 09:06 Last Entered 21-JUL-2006 09:06

General Constants: AC 000

Borehole Diameter	0.100	mm
Borehole Fluid Density	1.000	kg/m3
Mud Resistivity Temperature	20.000	degree C
Mud Resistivity	0.000	ohm metres
Temperature Processing	Water Level Gradient	
Depth Reference	Kelly Bushing	
HNGS Calibrate Curve and Differential Curve Number	0	
HNGS Calibrate Date	Calibrate Now 0000	
Neutron Porosity Source	Calculated	
Neutron Porosity Algorithm	Calibrated Calliper	Calliper Now 0000

Gamma Calibration: CDR 001

Gamma Calibration Number: 1

Field Calibration on 21-JUL-2006 11:16

	Measured	Calibrated (API)
Background	0.000	0.000
Calibrator	0.000	0.000
Calibration Factor	1.000	1.000

Density Calibration: CDR 001

Density Calibration Number: 1

Base Calibration on 21-JUL-2006 11:16

	Measured	Calibrated (kg/m3)
Reference 1	2000	2000
Reference 2	2500	2500

Zero Check

	Measured	Calibrated (kg/m3)
Zero Check	0.0	0.0

Density Calibration: CDR 001 — Last Entered on 21-JUL-2006 09:06

Density Source: Density
Density Source A: Density
Density Source B: Density
Calibrate Source For Processing: Calibrate From Density
Density Calibration Method: Two Point Calibration
Mud Density: 1.10 g/cm3
Density Offset: 0.00 g/cm3
Mud Type: Water Based
Matrix Density (g/cm3): Depth (m)
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00

Bed Size Normalization

	Measured g/cc	Calibrated g/cc
0001 Point 1	0.00	0.00
0002 Point 2	0.00	0.00
0003 Point 3	0.00	0.00

Dip Tube Normalization

	Measured g/cc	Calibrated g/cc
0001 Point 1	0.00	0.00
0002 Point 2	0.00	0.00
0003 Point 3	0.00	0.00

Calipers Calibration: CDR 001 — Base Calibration on 06-JUL-2006 09:06

Field Calibration on

Arm	Measured	Calibrated (mm)
1	0.000	152.400
2	0.000	152.400
3	0.000	152.400
4	0.000	152.400

Gamma Calibration: 1042 082

	Measured	Calibrated (API)
Background	0.000	0.000
Calibrator	0.000	0.000
Calibration Factor	0.000	0.000

Field Calibration on 21-JUL-2006 11:16

Gamma Calibration: 1042 082 — Last Entered on 21-JUL-2006 11:16

Gamma Source: Gamma
Gamma Source A: Calibrate
Gamma Source B: Calibrate
Calibrate Source For Processing: Calibrate From Gamma
Gamma Calibration Method: Two Point Calibration
Mud Gamma: 0.00 gamma
Gamma Offset: 0.00 gamma
Mud Type: Water Based

Bed Size Normalization

| | Measured gamma | Calibrated gamma

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-013		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	Final Reading	347.00 metres
Elevation Drill Floor	metres	Depth Order	350.50 metres
Elevation Ground Level	metres	Depth Logger	347.20 metres

Weatherford

MINI PLOT

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-013		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	Final Reading	347.00 metres
Elevation Drill Floor	metres	Depth Order	350.50 metres
Elevation Ground Level	metres	Depth Logger	347.20 metres

Hunterland

Drilling Fluids Report

Prepared for: Hunterland Exploration Inc.
Prepared by: Hunterland Drilling Fluids
Field: Kiskatinaw
Well: 16-07-083-13W6M
Surface Location: 16-07-083-13W6M
Licence: 0000000
Rig: Ensign 000
Spud Date: 00-00-0000
Report Date: 00-00-0000
Report Number: 000
Report Type: Daily Report

Contact Information

Name	Phone	Email
Jason Hunter	000-000-0000	jhunter@hunterland.ca
Jason Hunter	000-000-0000	jhunter@hunterland.ca

Operations Summary

Operations
Operations
Operations

VERTICALITY ANALYSIS

COMPLIANCE COAL CORP.
RAVEN 013
UNDEFINED
BRITISH COLUMBIA
CANADA

100/01-00	01-JUL-2009	09:38	01-JUL-2009	09:38	0.00	147.00	147.00	0.00	0.00	0.00	0.00	0.00	0.00
100/02-00	01-JUL-2009	09:38	01-JUL-2009	09:38	147.00	256.00	109.00	0.00	0.00	0.00	0.00	0.00	0.00
100/03-00	01-JUL-2009	09:38	01-JUL-2009	09:38	256.00	347.00	91.00	0.00	0.00	0.00	0.00	0.00	0.00

BOREHOLE RECORD

Last Edited: 01-JUL-2009 09:38

Bit Size	Depth From	Depth To
152.000	0.00	147.00
152.000	147.00	256.00
	256.00	347.00

CASING RECORD

Type	Size outside diameter	Depth From	Shoe Depth	Weight
	152.000	0.00	15.00	0.00

REMARKS

COORDINATES:
NORTHING
3485310

EASTING
0000000

TOO, RUNS
NIPCODE:INCUPT

BORE WALL CONDI - MEDIUM
BORE HOLE CONDI - GOOD

WELL NOT FLOWING

WELL WAS LOGGED STAND ALONE

Verticality Analysis Interpretation Notes

01-JUL-2009 09:37

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:10000(metres) and 1:40000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10mm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects such as ferrous casing or magnetic rock. Such effects will be identified by inconsistency. So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH — The depth recorded on the field logs for the borehole

TRUE DEPTH — The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.

HOLE TILT AND AZIMUTH — The sampled borehole orientation.

ABSA COORDINATES — The coordinates North and East from the target origin.

POLAR COORDINATES — The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

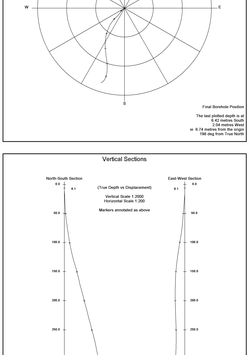
C:\logic\Vmode\RAVEN-013\054-238-M.dta

All Co-ordinates With Respect To True North, all depths in metres.
Feet Depth 5 ft. 0.05 North, 0.05 East of Origin

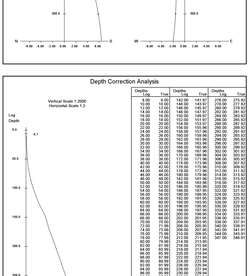
Date Processed: 01-JUL-2009
Date Logged: 30-JUN-2009

DEPTH	TRUE DEPTH	HOLE TILT	HOLE AZIMUTH	ABSA CO-ORDS NORTH	ABSA CO-ORDS EAST	POLAR
0.00	0.00	0.0	0.0	0.00	0.00	0.00
4.00	4.00	0.6	214.8	-0.02	-0.02	196 0.02
10.00	10.00	0.6	148.5	-0.03	0.01	169 0.03
14.00	14.00	0.5	148.5	-0.04	0.02	151 0.04
18.00	18.00	0.5	148.5	-0.05	0.03	149 0.05
19.00	19.00	0.5	272.1	-0.06	-0.02	195 0.06
20.00	20.00	0.5	272.1	-0.06	-0.05	214 0.06
21.00	21.00	0.5	272.1	-0.06	-0.09	211 0.09
22.00	22.00	0.4	308.6	-0.06	-0.06	215 0.11
23.00	23.00	0.4	308.6	-0.05	-0.04	215 0.12
24.00	24.00	0.5	271.1	-0.05	-0.02	215 0.14
26.00	26.00	0.6	257.5	-0.11	-0.11	225 0.16
28.00	28.00	0.6	257.5	-0.12	-0.20	226 0.23
30.00	30.00	0.6	262.2	-0.13	-0.13	226 0.19
34.00	34.00	0.5	262.4	-0.14	-0.15	227 0.20
36.00	36.00	0.5	262.4	-0.15	-0.16	227 0.22
38.00	38.00	0.5	262.4	-0.15	-0.18	228 0.24
40.00	40.00	0.6	251.5	-0.17	-0.20	228 0.26
42.00	42.00	0.6	251.5	-0.19	-0.23	229 0.29
44.00	44.00	0.6	251.5	-0.21	-0.26	230 0.32
46.00	46.00	0.6	230.5	-0.22	-0.29	230 0.35
48.00	48.00	0.9	230.5	-0.22	-0.36	230 0.43
50.00	50.00	0.9	230.5	-0.23	-0.39	229 0.46
52.00	52.00	0.9	230.5	-0.26	-0.39	228 0.49
54.00	54.00	0.9	238.6	-0.30	-0.39	228 0.51
56.00	56.00	0.9	238.6	-0.32	-0.39	227 0.51
58.00	58.00	0.9	238.6	-0.35	-0.39	226 0.52
60.00	60.00	1.0	231.4	-0.34	-0.39	226 0.49
62.00	62.00	1.0	231.4	-0.36	-0.39	225 0.49
64.00	64.00	1.0	231.4	-0.38	-0.39	224 0.49
66.00	66.00	1.0	238.6	-0.40	-0.41	224 0.54
68.00	68.00	1.0	238.6	-0.42	-0.43	223 0.59
70.00	70.00	1.0	238.6	-0.45	-0.45	223 0.63
71.00	71.00	0.9	223.1	-0.51	-0.47	223 0.69
72.00	72.00	0.9	223.1	-0.53	-0.49	223 0.72
73.00	73.00	0.9	223.1	-0.54	-0.51	223 0.77
76.00	77.99	1.5	224.3	-0.59	-0.55	223 0.81
80.00	81.99	1.5	224.3	-0.65	-0.61	223 0.89
84.00	85.99	1.5	224.3	-0.71	-0.68	223 0.98
88.00	89.99	1.5	224.3	-0.66	-0.63	223 0.93
92.00	93.99	1.5	224.3	-0.62	-0.59	223 0.87
96.00	97.99	1.5	224.3	-0.58	-0.54	223 0.81
98.00	99.99	1.7	241.0	-0.77	-0.72	223 1.05
100.00	101.99	1.7	241.0	-0.79	-0.74	223 1.09
102.00	103.99	1.7	241.0	-0.83	-0.77	223 1.12
106.00	107.99	1.5	253.5	-0.87	-0.82	223 1.19
108.00	109.99	1.5	253.5	-0.89	-0.84	223 1.22
110.00	111.99	1.5	253.5	-0.91	-0.86	223 1.25
112.00	113.99	1.5	238.6	-0.97	-0.92	223 1.34
114.00	115.99	1.5	238.6	-1.00	-0.95	223 1.38
116.00	117.99	1.5	238.6	-1.04	-0.98	223 1.42
118.00	119.99	1.5	238.6	-1.07	-1.01	223 1.47
120.00	121.99	1.5	222.6	-1.41	-1.23	221 1.87
122.00	123.99	1.5	222.6	-1.45	-1.26	221 1.92
124.00	125.99	1.5	222.6	-1.51	-1.31	221 2.00
126.00	127.99	2.0	217.1	-1.55	-1.30	220 2.03
128.00	129.99	2.0	217.1	-1.60	-1.34	219 2.09
130.00	131.99	2.0	217.1	-1.67	-1.39	219 2.15
134.00	133.97	2.1	212.0	-1.73	-1.36	219 2.21
136.00	135.97	1.8	188.8	-1.78	-1.39	219 2.26
138.00	137.97	1.8	188.8	-1.85	-1.44	217 2.35
140.00	139.97	1.7	188.8	-1.91	-1.49	217 2.40
142.00	141.97	1.7	188.8	-1.96	-1.53	216 2.46
144.00	143.97	1.7	217.1	-2.00	-1.56	216 2.52
146.00	145.97	1.7	202.1	-2.09	-1.52	216 2.58
148.00	147.97	1.7	202.1	-2.14	-1.54	215 2.64
150.00	149.97	1.7	202.1	-2.19	-1.55	215 2.69
152.00	151.97	1.7	193.9	-2.25	-1.57	215 2.74
154.00	153.97	1.7	193.9	-2.31	-1.58	214 2.79
156.00	155.97	1.7	196.9	-2.34	-1.61	214 2.83
158.00	157.96	1.7	196.9	-2.39	-1.60	214 2.86
160.00	159.96	1.7	196.9	-2.44	-1.62	213 2.91
162.00	161.96	1.7	196.9	-2.49	-1.64	213 2.96
164.00	163.96	1.5	193.0	-2.57	-1.62	212 3.00
166.00	165.96	1.5	193.0	-2.62	-1.63	212 3.04
168.00	167.96	1.5	193.0	-2.67	-1.65	212 3.08
172.00	171.96	1.4	188.6	-2.72	-1.64	211 3.17
174.00	173.96	1.4	188.6	-2.76	-1.65	211 3.21
176.00	175.96	1.4	188.6	-2.82	-1.66	210 3.25
178.00	177.96	1.7	194.7	-2.88	-1.68	210 3.32
180.00	179.96	1.7	194.7	-2.94	-1.70	209 3.39
182.00	181.96	1.7	194.7	-2.99	-1.72	209 3.42
184.00	183.96	1.9	191.3	-3.04	-1.69	209 3.47
186.00	185.96	1.7	186.8	-3.09	-1.68	208 3.51
188.00	187.96	1.7	186.8	-3.15	-1.69	208 3.56
190.00	189.95	1.7	186.8	-3.20	-1.67	207 3.61
192.00	191.95	1.7	186.8	-3.26	-1.66	207 3.65
194.00	193.95	1.7	186.8	-3.31	-1.64	206 3.69
196.00	195.95	1.4	179.1	-3.37	-1.66	206 3.75
198.00	197.95	1.4	179.1	-3.42	-1.66	205 3.79
200.00	199.95	1.4	179.1	-3.47	-1.66	205 3.83
204.00	203.95	1.6	194.7	-3.53	-1.62	203 4.16
206.00	205.95	1.6	194.7	-3.59	-1.64	203 4.21
208.00	207.94	1.6	194.7	-3.64	-1.66	202 4.26
210.00	209.94	1.6	194.1	-3.69	-1.61	202 4.30
212.00	211.94	1.6	194.1	-3.74	-1.63	201 4.35
214.00	213.94	1.6	194.1	-3.79	-1.65	201 4.40
216.00	215.94	1.6	194.7	-3.83	-1.62	200 4.43
218.00	217.94	1.6	193.1	-4.19	-1.58	199 4.80
220.00	219.94	1.6	193.1	-4.24	-1.59	199 4.85
222.00	221.94	1.6	193.1	-4.29	-1.60	198 4.89
224.00	223.94	1.7	178.9	-4.35	-1.56	200 4.92
226.00	225.94	1.7	178.9	-4.40	-1.56	199 4.97
228.00	227.94	1.7	178.9	-4.45	-1.56	198 5.02
230.00	229.94	1.7	185.4	-4.50	-1.53	198 5.06
232.00	231.94	1.7	185.4	-4.55	-1.54	197 5.11
234.00	233.94	1.7	185.4	-4.61	-1.55	197 5.16
236.00	235.94	1.7	177.2	-4.66	-1.52	196 5.20
238.00	237.94	1.7	177.2	-4.72	-1.52	196 5.25
240.00	239.94	1.7	177.2	-4.78	-1.52	195 5.30
242.00	241.93	1.7	181.1	-4.82	-1.50	195 5.35
244.00	243.93	1.7	181.1	-4.87	-1.50	194 5.39
246.00	245.93	1.7	181.1	-4.92	-1.50	194 5.43
248.00	247.93	1.6	186.2	-4.98	-1.49	193 5.50
250.00	249.93	1.6	186.2	-5.04	-1.49	193 5.56
252.00	251.93	1.6	186.2	-5.09	-1.49	192 5.61
254.00	253.93	1.6	186.2	-5.14	-1.49	192 5.66
264.00	263.93	1.4	192.8	-5.37	-1.56	189 5.92
266.00	265.93	1.4	192.8	-5.41	-1.57	188 5.97
268.00	267.93	1.4	192.8	-5.45	-1.58	188 6.02
270.00	269.93	1.2	187.5	-5.49	-1.57	187 6.06
272.00	271.93	1.2	187.5	-5.52	-1.58	187 6.09
274.00	273.93	1.2	187.5	-5.56	-1.59	186 6.13
276.00	275.93	1.2	187.5	-5.59	-1.60	186 6.16
278.00	277.93	1.2	187.5	-5.63	-1.61	185 6.20
280.00	279.93	1.2	187.5	-5.66	-1.62	185 6.23
282.00	281.92	1.2	187.5	-5.70	-1.63	184 6.26
284.00	283.92	1.2	187.5	-5.73	-1.64	184 6.29
286.00	285.92	1.2	187.5	-5.77	-1.65	183 6.32
288.00	287.92	1.2	187.5	-5.80	-1.66	183 6.35
290.00	289.92	1.2	187.5	-5.83	-1.67	182 6.38
292.00	291.92	1.2	187.5	-5.87	-1.68	182 6.41
294.00	293.92	1.2	187.5	-5.90	-1.69	181 6.44
296.00	295.92	1.0	189.9	-5.91	-1.70	181 6.46
298.00	297.92	1.0	189.9	-5.93	-1.71	180 6.48
300.00	299.92	1.0	189.9	-5.95	-1.72	180 6.50
302.00	301.92	0.9	203.6	-5.99	-1.65	179 6.52
304.00	303.92	0.9	203.6	-6.02	-1.64	179 6.54
306.00	305.92	0.9	203.6	-6.04	-1.63	178 6.56
308.00	307.92	0.9	202.0	-6.08	-1.59	178 6.58
310.00	309.92	0.9	202.0	-6.09	-1.58	177 6.59
312.00	311.92	0.9	202.0	-6.11	-1.57	177 6.61
314.00	313.92	0.9	202.0	-6.08	-1.59	176 6.61
316.00	315.92	0.9	214.4	-6.06	-1.63	176 6.62
318.00	317.92	0.9	214.4	-6.04	-1.67	175 6.64
320.00	319.92	0.9	214.4	-6.15	-1.74	196 6.80
322.00	321.92	0.9	214.4	-6.21	-1.78	195 6.87
324.00	323.92	0.9	214.4	-6.21	-1.74	195 6.86
326.00	325.92	0.9	230.8	-6.23	-1.79	196 6.89
328.00	327.92	0.9	230.8	-6.24	-1.83	196 6.91
330.00	329.92	0.9	230.8	-6.26	-1.83	196 6.94
332.00	331.92	0.8	258.9	-6.30	-1.85	196 6.97
334.00	333.92	0.8	258.9	-6.32	-1.87	196 6.99
336.00	335.92	0.8	258.9	-6.34	-1.88	197 7.01
338.00	337.92	0.8	258.9	-6.36	-1.90	197 7.04
340.00	339.92	0.8	258.9	-6.38	-1.91	197 7.06
342.00	341.92	0.8	258.9	-6.40	-1.93	197 7.08
344.00	343.92	0.8	258.9	-6.41	-1.94	197 7.11
346.00	345.92	0.8	258.9	-6.43	-1.96	197 7.13
347.00	346.92	0.8	258.9	-6.44	-1.97	197 7.14

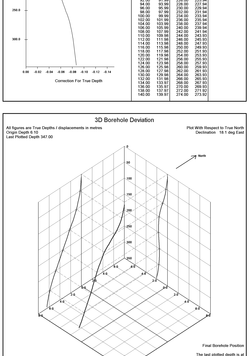
Cross Section



Vertical Sections

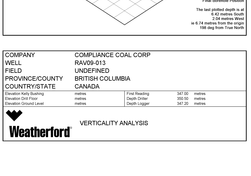


Depth Correction Analysis



Depths		Depths		Depths	
0.00	0.00	143.00	143.00	276.00	277.92
10.00	10.00	144.00	145.01	278.00	279.92
14.00	14.00	146.00	147.01	280.00	281.92
18.00	18.00	148.00	149.01	282.00	283.92
19.00	19.00	150.00	149.97	284.00	285.93
20.00	20.00	152.00	151.97	286.00	287.93
21.00	21.00	154.00	153.97	288.00	289.93
22.00	22.00	156.00	155.97	290.00	291.93
23.00	23.00	158.00	157.96	292.00	293.93
24.00	24.00	160.00	159.96	294.00	295.93
26.00	26.00	162.00	161.96	296.00	297.93
28.00	28.00	164.00	163.96	298.00	299.93
30.00	30.00	166.00	165.96	300.00	301.93
34.00	34.00	168.00	167.96	302.00	303.93
36.00	36.00	172.00	171.96	306.00	305.92
38.00	38.00	174.00	173.96	308.00	307.92
40.00	40.00	176.00	175.96	310.00	309.92
42.00	42.00	178.00	177.96	312.00	311.92
44.00	44.00	180.00	179.96	314.00	313.92
46.00	46.00	182.00	181.96	316.00	315.92
48.00	48.00	184.00	183.96	318.00	317.92
50.00	50.00	186.00	185.96	320.00	319.92
52.00	52.00	188.00	187.96	322.00	321.92
54.00	54.00	190.00	189.95	324.00	323.92
56.00	56.00	192.00	191.95	326.00	325.92
58.00	58.00	194.00	193.95	328.00	327.92
60.00	60.00	196.00	195.95	330.00	329.92
62.00	62.00	198.00	197.95	332.00	331.92
64.00	64.00	200.00	199.95	334.00	333.92
66.00	66.00	204.00	203.95	336.00	335.92
68.00	68.00	206.00	205.95	338.00	337.92
70.00	70.00	208.00	207.94	340.00	339.92
71.00	71.00	210.00	209.94	342.00	341.92
72.00	72.00	212.00	211.94	344.00	343.92
73.00	73.00	214.00	213.94	347.00	346.92
76.00	77.99	216.00	215.94		
80.00	81.99	218.00	217.94		
84.00	85.99	220.00	219.94		
88.00	89.99	222.00	221.94		
92.00	93.99	224.00	223.94		
96.00	97.99	226.00	225.94		
98.00	99.99	228.00	227.94		
100.00	101.99	230.00	229.94		
102.00	103.99	232.00	231.94		
106.00	107.99	234.00	233.94		
108.00	109.99	236.00	235.94		
110.00	111.99	238.00	237.94		
112.00	113.99	240.00	239.94		
114.00	115.99	242.00	241.93		
116.00	117.99	244.00	243.93		
118.00	119.99	246.00	245.93		
120.00	121.99	248.00	247.93		
122.00	123.99	250.00	249.93		
124.00	125.99	252.00	251.93		
126.00	127.99	254.00	253.93		
128.00	129.99	264.00	263.93		
130.00	131.99	266.00	265.93		
132.00	133.97	268.00	267.93		
134.00	135.97	270.00	269.93		
136.00	137.97	272.00	271.92		
138.00	139.97	274.00	273.92		

3D Borehole Deviation



COMPANY	COMPLIANCE COAL CORP				
WELL	RAVEN 013				
FIELD	UNDEFINED				
PROVINCE/COUNTY	BRITISH COLUMBIA				
COUNTRY/STATE	CANADA				
Elevation Kelly Bushing	metres	Total Reading	347.00	metres	
Elevation Ground Level	metres	Total Logged	347.00	metres	
Elevation Ground Level	metres	Depth Logged	347.00	metres	

Weatherford

VERTICALITY ANALYSIS

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-014
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
UWI	
LSD	SEC	TWP	RGE
Licence Number	
Other Services	

Run Number	1
Depth Driller	112.50 metres
Depth Logger	112.00 metres
First Reading	0.00 metres
Last Reading	24.00 metres
Casing Logger	24.00 metres
Casing Driller	24.00 metres
Bit Size	
Casing Type	
Density / Viscosity	
PH / Fluid Loss	
Source Sample	WATER
Rm @ Measured Temp	
Rmf @ Measured Temp	
Rmc @ Measured Temp	
Source Rmf / Rmc	
Rm @ BHT	
Time Since Circulation	
Max Recorded Temp	
Equipment Base	
Equipment Name	
Recorded By	1183K
Witnessed By	O.COLLINGHAM

Permanent Datum: GL, Elevation: 34 metres
Log Measured From: GROUND LEVEL above Permanent Datum
Drilling Measured From: 27-JAN-2009

Elevations: KB 34 GL

All measurements are in metres

BOREHOLE RECORD

Last Edited: 27-JUN-2009 12:25

Bit Size millimetres	Depth From metres	Depth To metres
107.000	0.00	24.00
101.300	24.00	112.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	107.000	0.00	24.00	14.14

REMARKS

COORDINATES:
NORTHING:
5484860

EASTING:
363000

TOOL RUNS:
RR5,DD6,VR1,MS2,SCANNER

BORE WALL COND : GOOD
BORE HOLE COND : GOOD

WELL NOT FLOWING

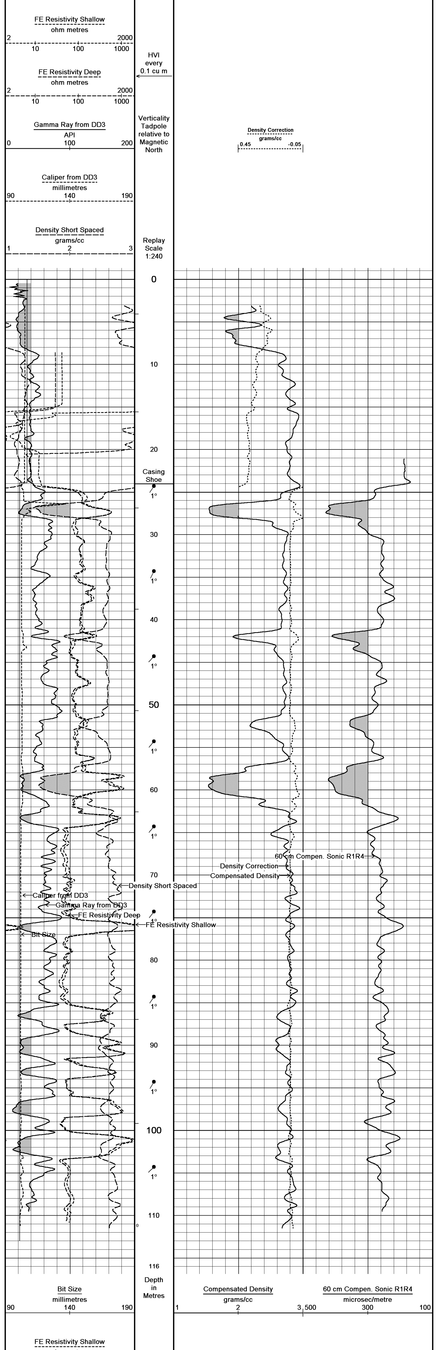
WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made byany of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

COMPOSITE LOG 1:240

Depth Based Data - Merged File
Filename: C:\logs\Comrus09\RAV09-014\014_MAIN.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 27-JUN-2009 22:20
Merged on 27-JUN-2009 19:41



Depth Based Data - Merged File
Filename: C:\logs\Comrus09\RAV09-014\014_MAIN.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 27-JUN-2009 22:20
Merged on 27-JUN-2009 19:41

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-014
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	112.00	metres
Elevation Drill Floor	metres	Depth Driller	112.50	metres
Elevation Ground Level	metres	Depth Logger	112.03	metres

Weatherford®

COMPOSITE COAL LOG

COMPANY: COMPLIANCE COAL CORP
WELL: RAVEN 8-4-L
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA
LOG: CORE DETAIL ZONES

Weatherford

Log Interval	1 in:10 m
Field Scale	1:100 metric
Date	4-Mar-2020
Time	10:00
Operator	Jeremy
Unit	1

CORE DETAIL ZONES
CORRIB RAY, CALIPER
GAMMA RAY, CALIPER

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN 8-4-L
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
LOCATION	49.0000 N 114.0000 W
API NUMBER	00-00-000-00000
LICENSE NUMBER	0000
SPUD DATE	1-Jan-1900
COMPLETION DATE	1-Jan-1900
PERMANENT DATUM	GROUND LEVEL
LOG MEASURED FROM	0.00 m ABOVE PERMANENT DATUM
DRILLING MEASURED FROM	GROUND LEVEL
ELEVATION	0.00 m
PROJECT	0
LOCATION	0-0-0-0
LAT/LONG	0.000000 0.000000
LSD	0
SECTION	0
TWP	0
RGE	0
MERIDIAN	0
LICENCE	0
DRILLING CONTRACTOR	
RIG	0
SPUD	1-Jan-1900
TD	0.00 m
CASING	0.00 m @ 0.00 m
LIQUID	
BIT	0.00 m
FLUID IN HOLE	
MAX TEMP	0 C
EQUIPMENT	
RECORDED BY	
WITNESSED BY	

BUSINESS RECORD

Operator	Date	Time	Record	Description
RIG 0	1-Jan-1900	00:00	0	
RIG 0	1-Jan-1900	00:00	0	

CASING RECORD

Type	Size	Depth From	Depth To	Drill Depth	Weight
Casing	0.000 mm	0.00 m	0.00 m	0.00 m	0.00 kg/m

REMARKS

FLOWING/FRESH
WATER
WATER
CLEAN
FLOW BEAT, SPILLING SAND
SAND
SAND FILL, CORE
SAND FILL, CORE
SAND FILL, FLOWING
SAND FILL, FLOWING STRING ALONE

Weatherford assumes no responsibility or liability for the accuracy of any data furnished by it or its agents. Interpretations of data furnished by Weatherford are based on opinions and judgments which are based on data and information furnished by others and over which Weatherford has no control. Weatherford does not guarantee the accuracy or correctness of any interpretations and shall not be liable for any loss or damage arising from any interpretation or for any other reason.

0000-LOG-1 (1:200)

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\0000-LOG-1.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API (Track 2) — Density Correction (Track 3) — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

REPEAT SECTION

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\0000-LOG-1.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API (Track 2) — Density Correction (Track 3) — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

CORE DETAIL 1.20

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\CORE DETAIL 1.20.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API — Density Shock Sensor — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

CORE DETAIL 1.20

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\CORE DETAIL 1.20.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API — Density Shock Sensor — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

BEFORE SURVEY CALIBRATION

Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\0000-LOG-1.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API — Density Shock Sensor — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

CORE DETAIL 1.20

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\CORE DETAIL 1.20.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API — Density Shock Sensor — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

CORE DETAIL 1.20

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\CORE DETAIL 1.20.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API — Density Shock Sensor — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

BEFORE SURVEY CALIBRATION

Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\0000-LOG-1.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API — Density Shock Sensor — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

CORE DETAIL 1.20

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\CORE DETAIL 1.20

COMPANY	COMPLIANCE COAL CORP
WELL	RAVIR-014
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Other Services	DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER
Permanent Datum	GROUND LEVEL
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING
Elevation: Kelly Bushing	metres
Elevation: Ground Level	metres
Date	21-JUN-2009
Run Number	ONE
Depth Driller	112.50 metres
Depth Logger	112.05 metres
Bottom Log Interval	110.00 metres
Top Log Interval	0.20 metres
Casing Driller	0.00 metres @ 0.00 metres
Casing Logger	0.00 metres
Bit Size	140.00 mm
Drilling Fluid Type	WATER
Drilling Fluid Density	1.00 g/cm3
Drilling Fluid Viscosity	0.00 s
Drilling Fluid PH	0.00
Drilling Fluid Fluid Loss	0.00 ml
Source of Sample	FLOWING
Rm @ Measured Temp	0.000 ohmm @ 0.00 degC
Rmf @ Measured Temp	0.000 ohmm @ 0.00 degC
Rmc @ Measured Temp	0.000 ohmm @ 0.00 degC
Rm @ BHT	0.000 ohmm @ 0.00 degC
Rmf @ BHT	0.000 ohmm @ 0.00 degC
Rmc @ BHT	0.000 ohmm @ 0.00 degC
Max Rec Temp	0.00 degC
Equipment Number	1101
Location	0
Recorded By	D. CLEVELAND
Witnessed By	PC

COMPLIANCE COAL CORP
RAVIR-014
UNDEFINED
BRITISH COLUMBIA
CANADA

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

BOREHOLE RECORD

Last Edited: 21-JUN-2009 12:25

Bit Size millimetres	Depth From metres	Depth To metres
140.00	0.20	112.50
101.300	24.00	112.50

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	101.600	0.00	24.00	14.14

REMARKS

COORDINATES
NORTHING
SAMBO

EASTING
SAMBO

TOOL RUNS
WIRELINE MT 9812 SCANNER

BORE WALL COND : GOOD
DOR HOLE CONDITION : GOOD

WELL NOT FLOWING

WELL WAS LOGGED STAND ALONE

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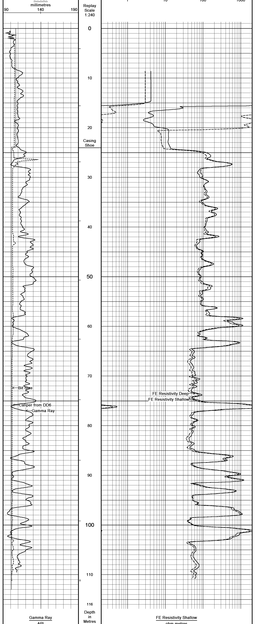
MAIN LOG 1:240

Depth Based Data - Merged File
Parameter: C:\logs\Comcoal\RAVIR-014\014_MAIN.mgp
System Versions: Logged with: 8.06.02.02 Merged with: 8.06.02.02 Plotted with: 8.06.02.02

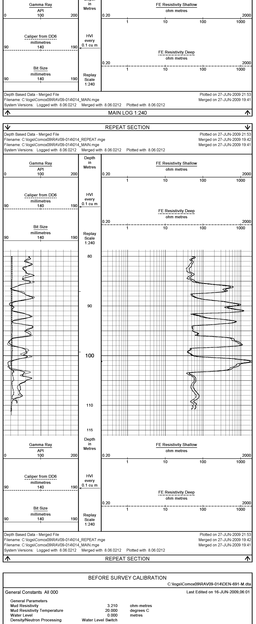
Plotted on 21-JUN-2009 21:10
Merged on 21-JUN-2009 19:41



REPEAT SECTION

Depth Based Data - Merged File
Parameter: C:\logs\Comcoal\RAVIR-014\014_REPEAT.mgp
System Versions: Logged with: 8.06.02.02 Merged with: 8.06.02.02 Plotted with: 8.06.02.02

Plotted on 21-JUN-2009 21:10
Merged on 21-JUN-2009 19:42
Merged on 21-JUN-2009 19:41



BEFORE SURVEY CALIBRATION

C:\logs\Comcoal\RAVIR-014\CEN-RFF-M.dfa

General Constants AI 000

Last Edited on 16-JUN-2009:36:01

General Parameters		
Mud Resistivity	3.210	ohm-metres
Mud Resistivity Temperature	Calibrator Temp	degrees
Water Level	0.000	metres
Density/Resistivity Processing	Water Level Switch	

Velocity/Acoustic Volume and Differential Caliper Parameters

HVCX: Caliper 1	Caliper from DD3	
HVCY: Caliper 2	Caliper from DD3	
Annular Volume Diameter	36.00	mm
Caliper for Differential Caliper	Caliper from DD3	

Raw Parameters	
Porosity used	N/A
Porosity Method	N/A
HWA Constant A	N/A
HWA Constant B	N/A

Gamma Calibration: DD6 691

Field Calibration on 10-JUN-2009:36:01

	Measured	Calibrated (API)
Background	17	27
Calibrator (Gross)	290	463
Calibrator (Net)	273	436

Gamma Constants: DD6 691

Last Edited on 21-MAY-2009:10:49

Gamma Calibrator Number	425

Density Calibration: DD6 691

Base Calibration on 10-JUN-2009:36:01
Field Check on

Well Hole	Measured Bed	Measured Lad	Calibrated (sdu) Bed	Calibrated (sdu) Lad
Reference 1	2846	1714	36247	28029
Reference 2	N/A	N/A	N/A	N/A

Dry Hole	Measured	Calibrated (sdu)
Reference 1	2846 1714	36247 28029
Reference 2	N/A N/A	N/A N/A

	Calibrated (sdu)	
Field Check at Base	0.0	0.0
	Calibrated (sdu)	
Field Check	0.0	0.0

Density Constants: DD6 691

Last Edited on 7-JUN-2009:09:36

Processing Type	DDS	
Density Source Hole Number	101HCA	
Density Source Hole Type	HCA	
Caliper Source for Processing	Caliper from Density	
Gamma Strip Coefficient	0.10	
Mud Density	1.11	g/cc
Density Hole Density	1.00	g/cc
BBG Scale	-0.50	
Density Scaler	1.50	

Matrix density (g/cc)

	Depth (m)	
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00

Well Hole Normalization	Measured g/cc	Calibrated g/cc
BBG Point 1	1.00	1.00
BBG Point 2	1.00	1.00
LBD Point 1	1.00	1.00
LBD Point 2	3.00	3.00

Dry Hole Normalization	Measured g/cc	Calibrated g/cc
BBG Point 1	1.00	1.00
BBG Point 2	1.00	1.00
LBD Point 1	1.00	1.00
LBD Point 2	3.00	3.00

Caliper Calibration: DD6 691

Base Calibration on 27-JUN-2009:12:15
Field Calibration on

Base Calibration Reading No	Measured	Calibrated Size (mm)
1	1991	76.20
2	2358	101.60
3	2725	127.00
4	3188	152.40
5	3609	177.80
6	4095	203.20

Field Calibration	Measured Caliper (mm)	Actual Caliper (mm)
	0.00	0.00

Sonic Constants: MS2 336

Last Edited on 27-JUN-2009:11:42

Maximum Boundary Contrast	328.08	micro-secs/m
Sonic Trace Delay	100.00	micro-secs
Limestone Transit Time	155.84	micro-secs/m
Sandstone Transit Time	142.09	micro-secs/m
Shale Transit Time	185.00	micro-secs/m
Sonic for Formation DTCA 40 cm Compensated Sonic 8318		
Transit Time for UCS Curve	MC2A 26 cm Sonic 8318	
Sonic Spacing	0.61	metres
UCS Exponent	3.0125	metres/sec
Transmitter-Receiver 1 Offset	24.90	inches
Transmitter-Receiver 2 Offset	30.00	inches
Transmitter-Receiver 3 Offset	40.00	inches
Transmitter-Receiver 4 Offset	48.00	inches

FE Calibration: RR5 544

Field Calibration on 21-JUN-2009:11:40

	Shallow	Deep	Calibrated (ohm-m)
Reference 1	4490.0	4490.0	3.8 1.5
Reference 2	3003.0	3003.0	2754.0 1918.0

FE Constants: RR5 544

Last Edited on 17-JUN-2009:18:48

Hi Contrast FE50 (deep + shallow)	2.100
Hi Contrast FE50 (deep + shallow)	1.900

Gamma Calibration: RR5 544

Field Calibration on 21-JUN-2009:11:40

	Measured	Calibrated (API)
Background	17	27
Calibrator (Gross)	290	463
Calibrator (Net)	274	436

Gamma Constants: RR5 544

Last Edited on 21-MAY-2009:10:41

Gamma Calibrator Number	425

Resistivity Tool Constants: RR5 544

Last Edited on 21-JUN-2009:11:41

Guide Mode	FE Mode
Bridle Electrode to Tool (mm)	3076.00

Borehole Geometry Constants V04 238

Last Edited on 21-JUN-2009:11:41

Configuration	Digitizer		
Magnetic Declination	24.10	degrees	East

Magnetometer Parameters V04 238

	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	315.000	312.000	283.000
Minimum	185.000	186.000	152.000

Level Calibration: V04 238

Field Calibration on 27-JUN-2009:11:41

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
150.00	114.00	-15.00	258.00	207.00	9.00
152.00	131.00	-15.00	215.00	214.00	10.00
154.00	148.00	-12.00	217.00	221.00	12.00
155.00	152.00	-10.00	248.00	248.00	20.00
161.00	159.00	-6.00	0.00	0.00	0.00
165.00	165.00	-3.00	0.00	0.00	0.00
174.00	172.00	-1.00	0.00	0.00	0.00
181.00	180.00	0.00	0.00	0.00	0.00
187.00	187.00	3.00	0.00	0.00	0.00
195.00	194.00	6.00	0.00	0.00	0.00
202.00	200.00	9.00	0.00	0.00	0.00

COMPANY	COMPLIANCE COAL CORP
WELL	RAVIR-014
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Other Services	DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

Permanent Datum	GROUND LEVEL	Elevation: Kelly Bushing	metres
Log Measured From	KELLY BUSHING	Elevation: Ground Level	metres
Drilling Measured From	KELLY BUSHING	Date	21-JUN-2009
Run Number	ONE	Depth Driller	112.50 metres
Depth Logger	112.05 metres	Bottom Log Interval	110.00 metres
Top Log Interval	0.20 metres	Casing Driller	0.00 metres @ 0.00 metres
Casing Logger	0.00 metres	Bit Size	140.00 mm
Drilling Fluid Type	WATER	Drilling Fluid Density	1.00 g/cm3
Drilling Fluid Viscosity	0.00 s	Drilling Fluid PH	0.00
Drilling Fluid Fluid Loss	0.00 ml	Source of Sample	FLOWING
Rm @ Measured Temp	0.000 ohmm @ 0.00 degC	Rmf @ Measured Temp	0.000 ohmm @ 0.00 degC
Rmc @ Measured Temp	0.000 ohmm @ 0.00 degC	Rm @ BHT	0.000 ohmm @ 0.00 degC
Rmf @ BHT	0.000 ohmm @ 0.00 degC	Rmc @ BHT	0.000 ohmm @ 0.00 degC
Max Rec Temp	0.00 degC	Equipment Number	1101
Location	0	Recorded By	D. CLEVELAND
Witnessed By	PC		

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-014
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
UWI	
LSD / SEC / TWP / RGE	Other Services
Licence Number	
Permanent Datum GL, Elevation NA metres	Elevations: metres
Log Measured From GROUND LEVEL above Permanent Datum	KB
Drilling Measured From	DF
	GL

Date	27-JUN-2009					
Run Number	1					
Depth Driller	112.50	metres				
Depth Logger	112.03	metres				
First Reading	112.00	metres				
Last Reading	0.00	metres				
Casing Driller	24.00	metres				
Casing Logger	24.00	metres				
Bit Size						
Hole Fluid Type	WATER					
Density / Viscosity						
PH / Fluid Loss						
Sample Source						
Rm @ Measured Temp						
Rmf @ Measured Temp						
Rmc @ Measured Temp						
Source Rmf / Rmc						
Rm @ BHT						
Time Since Circulation						
Max Recorded Temp						
Equipment Name						
Equipment / Base	11536	RDR				
Recorded By	J.MELANSON					
Witnessed By	O.CULLINGHAM					

BOREHOLE RECORD

Last Edited: 27-JUN-2009 12:25

Bit Size (millimetres)	Depth From (metres)	Depth To (metres)
107.000	0.00	24.00
101.300	24.00	112.00

CASING RECORD

Type	Size (millimetres)	Depth From (metres)	Shoe Depth (metres)	Weight (Kg/metre)
	107.000	0.00	24.00	14.14

REMARKS

COORDINATES:
NORTHING:
5484860

EASTING:
363000

TOOL RUNS:
RR5,DD6,VRT,MS2,SCANNER

BORE WALL COND. : GOOD
BORE HOLE COND. : GOOD

WELL NOT FLOWING

WELL WAS LOGGED STAND ALONE

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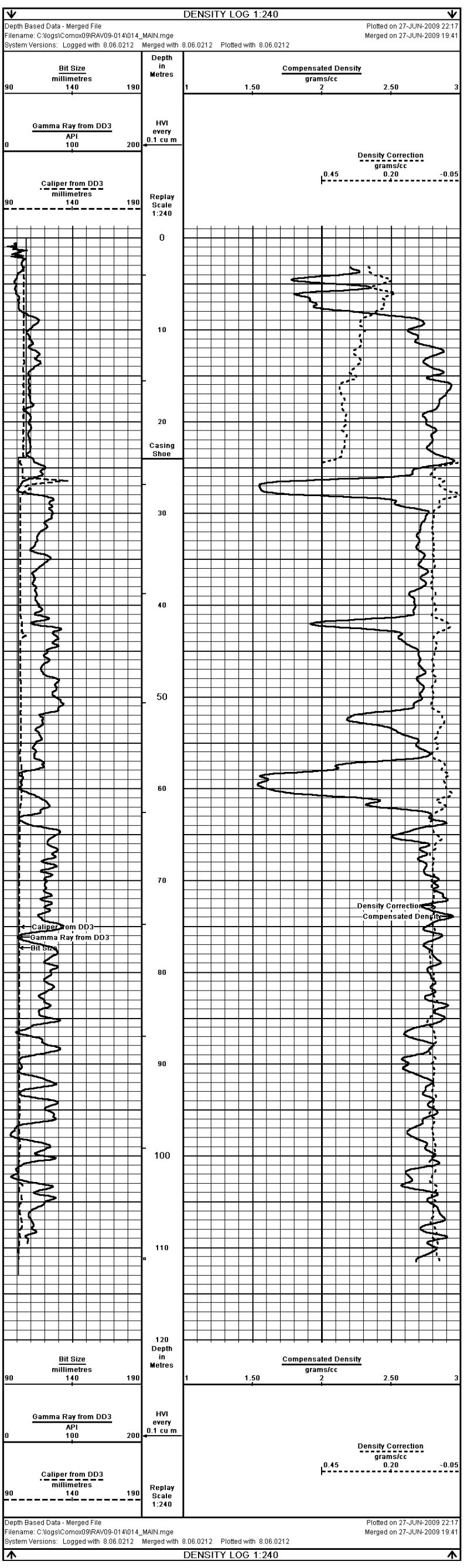

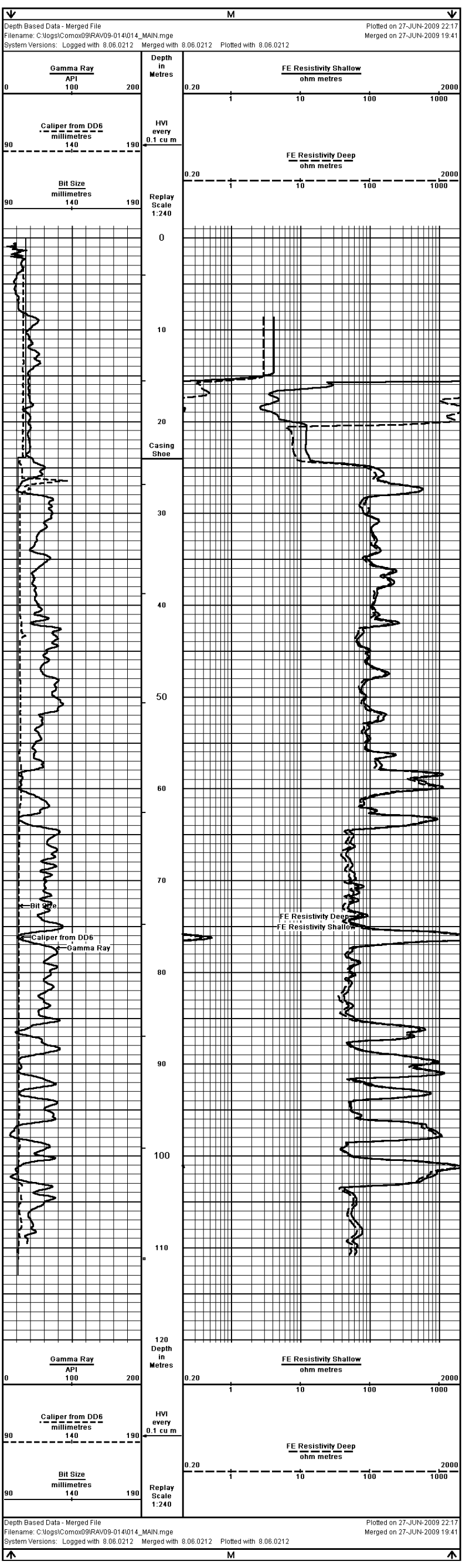

COMPANY	COMPLIANCE COAL CORP			
WELL	RAV09-014			
FIELD	UNDEFINED			
PROVINCE/COUNTY	BRITISH COLUMBIA			
COUNTRY/STATE	CANADA			
Elevation Kelly Bushing	metres	First Reading	112.00	metres
Elevation Drill Floor	metres	Depth Driller	112.50	metres
Elevation Ground Level	metres	Depth Logger	112.03	metres

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MINI PLOT

COMPANY	COMPLIANCE COAL CORP		60CM COMPENSATED SONIC
WELL	RAVOS-014		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Date	2011/07/29		
Time	08:00:00		
Depth Unit	Metres		
Time Unit	Seconds		
Drilling Method	ROTARY		
Log Type	PRIMARY		
Log Date	2011-JUL-29		
Log Time	08:00:00		
Run Number	ONE		
Depth Reference	KB		
Elevation	0.00		
Permanent Datum	GROUND LEVEL		
Log Measured From	KB		
Above Perm. Datum	0.00		
Max. Logged Depth	1.240		
Casing Driller	0.00		
Casing Logger	0.00		
Bit Size	0.00		
Fluid Type	UNKNOWN		
Density	0.00		
Viscosity	0.00		
Fluid Loss	0.00		
Source of Sample	NONE		
Rm @ Measured Temp	0.00		
Rmf @ Measured Temp	0.00		
Rmc @ Measured Temp	0.00		
Source Rmf / Rmc	NONE		
Rm @ BHT	0.00		
Max Recorded Temp	0.00		
Estimated Surface Temp	0.00		
Equipment	1001		
Logging Company	ROCKY MOUNTAIN DRILLING SERVICES		
Recorded By	DAVE		
Witnessed By	DARYL		

BOREHOLE RECORD

Bit Size (mm)	Depth From (m)	Depth To (m)
101.600	0.00	1.00
101.600	1.00	1.00

Last Edited: 27-JUN-2009 12:20

CASING RECORD

Type	Size (millimetres)	Depth From (metres)	Drive Depth (metres)	Weight (kg/metre)
	101.600	0.00	0.00	0.00

REMARKS

COORDINATES
NORTHING
0044992

EASTING
0000000

TOOL TYPE(S)
DUAL ARF/MEC/ACX/HNGR

BORE WALL COND - GOOD
BORE HOLE COND - GOOD

WELL NOT FLOWING

WELL WAS CLOSED STAND ALONE

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MAIN LOG 1 240

Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAVOS-014\CAL\MAIN.log
System Versions: Logged with: 8.08.0322 Merged with: 8.08.0322 Plotted with: 8.08.0212

Plotted on 27-JUN-2009 12:40
Merged on 27-JUN-2009 12:40

Casing Bottom
KB: 1.00
GL: 0.00

Caliper from DCD
millimetres
50 — 150

Bit Size
millimetres
50 — 150

Depth Scale
1 240

Casing Stop

Transit Time
every millisec
90 cm Compens. Sonic 91694
microseconds
520 — 420 — 320 — 220

T1-R1 Transit Time
microseconds
1100 — 700

T1-R2 Transit Time
microseconds
1100 — 700

T2-R1 Transit Time
microseconds
1100 — 700

T2-R2 Transit Time
microseconds
1100 — 700

Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAVOS-014\CAL\MAIN.log
System Versions: Logged with: 8.08.0322 Merged with: 8.08.0322 Plotted with: 8.08.0212

Plotted on 27-JUN-2009 12:40
Merged on 27-JUN-2009 12:40

REPEAT SECTION

Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAVOS-014\CAL\REPEAT.log
System Versions: Logged with: 8.08.0322 Merged with: 8.08.0322 Plotted with: 8.08.0212

Plotted on 27-JUN-2009 12:00
Merged on 27-JUN-2009 12:00
Merged on 27-JUN-2009 12:40

Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAVOS-014\CAL\REPEAT.log
System Versions: Logged with: 8.08.0322 Merged with: 8.08.0322 Plotted with: 8.08.0212

Plotted on 27-JUN-2009 12:00
Merged on 27-JUN-2009 12:00
Merged on 27-JUN-2009 12:40

REPEAT SECTION

BEFORE SURVEY CALIBRATION

C:\logs\Compliance\RAVOS-014\CEN-001.dat

General Constants: All 000

Last Edited on 16-JUN-2009 08:01

Mud Density	3.210	sim-metres
Mud Resistivity Temperature	20.000	degrees C
Mud Resistivity	0.000	metres
Density/Neutron Processing	Water Level Switch	

Hole/Borehole Volume and Differential Caliper Parameters

HVOL Caliper 1	Caliper from DCD	
HVOL Caliper 2	Caliper from DCD	
Annular Volume Diameter	76.200	mm
Caliper for Differential Caliper	Caliper from DCD	

Raw Parameters

Density Active	N/A	
Neutron Active	N/A	
AMA Constant A	N/A	
AMA Constant B	N/A	

Calibration Constants: DDB 681

Last Edited on 16-JUN-2009 08:01
Field Calibration on 16-JUN-2009 08:01

Gamma Calibration Number 425

	Measured	Calibrated (API)
Background	12	27
Calibration Gamma	206	409
Calibration Date	2009/ JUN/ 16	

Gamma Constants: DDB 681

Last Edited on 21-MAY-2009 15:46
Base Calibration on 16-JUN-2009 08:01
Field Check on

	Measured		Calibrated (cts)	
Base Calibration				
Well Kill	1714	1714	38.67	38.67
Reference 1	2690	1714	38.67	28.04
Reference 2	N/A	N/A	N/A	N/A
Field Check at Base			Calibrated (cts)	
			0.0	0.0
Field Check			Calibrated (cts)	
			0.0	0.0

Density Constants: DDB 681

Last Edited on 7-JUN-2009 09:58

Processing Type	DDB	
Density Cycle Length	1.000	
Aluminum Calibrator Number	112	
Caliper Source for Processing	Caliper from Density	
Hole Diameter Source	216.000	
Mud Density Source	1.11	gm/cc
Mud Density	1.110	gm/cc
BBG Scaler	-0.50	
Density Scaler	0.00	

Matrix density (gm/cc) Depth Scale

2.70	0.00
2.80	0.00
2.90	0.00
3.00	0.00
3.10	0.00
3.20	0.00

Well Kills Normalization	Measured gm/cc	Calibrated gm/cc
BBG Point 1	1.00	1.00
BBG Point 2	1.00	1.00
LBD Point 1	1.00	1.00
LBD Point 2	1.00	1.00

Dry Hole Normalization	Measured gm/cc	Calibrated gm/cc
BBG Point 1	1.00	1.00
BBG Point 2	1.00	1.00
LBD Point 1	1.00	1.00
LBD Point 2	1.00	1.00

Caliper Calibration: DDB 681

Base Calibration on 25-JUN-2009 22:15
Field Calibration on

	Measured	Calibrated Size (mm)	
1	1991	76.20	
2	2690	101.60	
3	3390	152.40	
4	3588	152.40	
5	4288	203.20	
6	4487	203.20	
Field Calibration	Measured Caliper (mm)	Actual Caliper (mm)	
	0.00	0.00	

Sonic Constants: MSC 330

Last Edited on 27-JUN-2009 11:40

Maximum Secondary Contrast	329.08	micro-secs/m
Float Transit Time	625.08	micro-secs/m
Minimum Primary Contrast	329.08	micro-secs/m
Sandstone Transit Time	182.88	micro-secs/m
Dolomite Transit Time	143.75	micro-secs/m
Sonic Processing Method	STOLAR-MC on Compensated Sonic	
Transit Time for LVS Curve	MC,96,20 on Sonic 91694	
LVS Threshold	10.00	%
LVS Comment	Fixed Gain	gain/attenuation
Transmitter-Receiver 1 Offset	91.00	inches
Transmitter-Receiver 2 Offset	274	inches
Transmitter-Receiver 3 Offset	40.00	inches
Transmitter-Receiver 4 Offset	307.00	inches

FE Calibration: RRS 544

Last Edited on 27-JUN-2009 11:40
Field Calibration on 27-JUN-2009 11:40

	Measured	Calibrated (mm-m)
Reference 1	4490.0	2.5 1.5
Reference 2	5003.0	2.5 4.0 1.5

Gamma Calibration: RRS 544

Last Edited on 17-JUN-2009 14:46
Field Calibration on 27-JUN-2009 11:40

	Measured	Calibrated (API)
Background	16	25
Calibration (Gamma)	74	409
Calibration (Bed)	274	496

Gamma Constants: RRS 544

Last Edited on 21-MAY-2009 10:41

Resistivity Tool Constants: RRS 544

Last Edited on 21-MAY-2009 11:41

Probe Calibration Number	FE Mode
Bridle Electrode Ko Tool	3078.00

Electrode Geometry Constants: VS4 238

Last Edited on 27-JUN-2009 11:41

Configuration	Dipmeter
Magnetic Declination	16.10 degrees East

Magnetometer Parameters VS4 238

Last Edited on 27-JUN-2009 11:41

	X Magnetometer	Y Magnetometer	Z Magnetometer
Minimum	213.000	213.000	201.000
Maximum	145.000	146.000	162.000

Pad Cell Calibration: VS4 238

Field Calibration on 27-JUN-2009 11:41

Cell 1 Counts	Cell 2 Counts	T38 (degrees)	Cell 1 Counts	Cell 2 Counts	T38 (degrees)
72.00	72.00	19.00	214.00	214.00	19.00
72.00	72.00	19.00	215.00	214.00	19.00
148.00	147.00	-10.00	231.00	229.00	19.00
149.00	147.00	0.00	232.00	229.00	19.00
149.00	148.00	0.00	232.00	230.00	19.00
150.00	148.00	0.00	233.00	230.00	19.00
174.00	172.00	2.00	234.00	231.00	19.00
175.00	172.00	2.00	235.00	231.00	19.00
175.00	173.00	2.00	236.00	232.00	19.00
176.00	173.00	2.00	237.00	232.00	19.00
196.00	194.00	4.00	238.00	233.00	19.00
197.00	194.00	4.00	239.00	233.00	19.00

COMPANY	COMPLIANCE COAL CORP		60CM COMPENSATED SONIC
WELL	RAVOS-014		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Date	2011/07/29		
Time	08:00:00		
Depth Unit	Metres		
Time Unit	Seconds		
Drilling Method	ROTARY		
Log Type	PRIMARY		
Log Date	2011-JUL-29		
Log Time	08:00:00		
Run Number	ONE		
Depth Reference	KB		
Elevation	0.00		
Permanent Datum	GROUND LEVEL		
Log Measured From	KB		
Above Perm. Datum	0.00		
Max. Logged Depth	1.240		
Casing Driller	0.00		
Casing Logger	0.00		
Bit Size	0.00		
Fluid Type	UNKNOWN		
Density	0.00		
Viscosity	0.00		
Fluid Loss	0.00		
Source of Sample	NONE		
Rm @ Measured Temp	0.00		
Rmf @ Measured Temp	0.00		
Rmc @ Measured Temp	0.00		
Source Rmf / Rmc	NONE		
Rm @ BHT	0.00		
Max Recorded Temp	0.00		
Estimated Surface Temp	0.00		
Equipment	1001		
Logging Company	ROCKY MOUNTAIN DRILLING SERVICES		
Recorded By	DAVE		
Witnessed By	DARYL		

Weatherford

VERTICALITY ANALYSIS

COMPANY COMPLIANCE COAL CORP
WELL RAV09-014
FIELD UNDEFINED
PROVINCE/COUNTRY BRITISH COLUMBIA
COUNTRY/STATE CANADA

| | | |

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-014
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
UWI	
LSD	SEC	TWP	RGE
Licence Number	
Other Services	

Run Number	1
Depth Driller	112.50 metres
Depth Logger	112.00 metres
First Reading	0.00 metres
Last Reading	24.00 metres
Casing Logger	24.00 metres
Casing Driller	24.00 metres
Bit Size	
Casing Type	
Density / Viscosity	
PH / Fluid Loss	
Source Sample	WATER
Rm @ Measured Temp	
Rmf @ Measured Temp	
Rmc @ Measured Temp	
Source Rmf / Rmc	
Rm @ BHT	
Time Since Circulation	
Max Recorded Temp	
Equipment Base	
Equipment Name	
Recorded By	1183K
Witnessed By	O.COLLINGHAM

Permanent Datum: GL, Elevation: 34 metres
Log Measured From: GROUND LEVEL above Permanent Datum
Drilling Measured From: 27-JAN-2009

Elevations: KB 34 GL

All measurements are in metres

BOREHOLE RECORD

Last Edited: 27-JUN-2009 12:25

Bit Size millimetres	Depth From metres	Depth To metres
107.000	0.00	24.00
101.300	24.00	112.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	107.000	0.00	24.00	14.14

REMARKS

COORDINATES:
NORTHING:
5484860

EASTING:
363000

TOOL RUNS:
RR5,DD6,VR1,MS2,SCANNER

BORE WALL COND : GOOD
BORE HOLE COND : GOOD

WELL NOT FLOWING

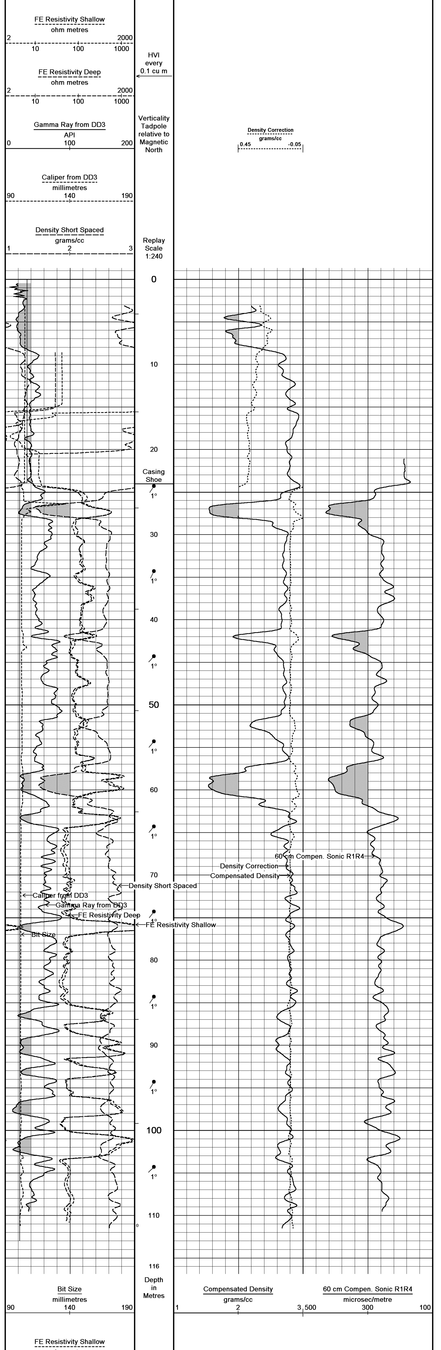
WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made byany of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

COMPOSITE LOG 1:240

Depth Based Data - Merged File
Filename: C:\logs\Comrus09\RAV09-014\014_MAIN.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 27-JUN-2009 22:20
Merged on 27-JUN-2009 19:41



Depth Based Data - Merged File
Filename: C:\logs\Comrus09\RAV09-014\014_MAIN.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 27-JUN-2009 22:20
Merged on 27-JUN-2009 19:41

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-014
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	112.00	metres
Elevation Drill Floor	metres	Depth Driller	112.50	metres
Elevation Ground Level	metres	Depth Logger	112.03	metres

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COMPOSITE COAL LOG

COMPANY: COMPLIANCE COAL CORP
WELL: RAVEN 8-4-L
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA
LOG: CORE DETAIL ZONES

Weatherford

Log Interval	1 in:10 m
Field Scale	1:100 metric
Date	4-Mar-2020
Time	10:00
Operator	Jeremy
Unit	1

CORE DETAIL ZONES
CORRIB RAY, CALIPER
GAMMA RAY, CALIPER

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN 8-4-L
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
LOCATION	49.0000 N 114.0000 W
API NUMBER	00-00-000-00000
LICENSE NUMBER	0000
SPUD DATE	1-Jan-1900
COMPLETION DATE	1-Jan-1900
PERMANENT DATUM	GROUND LEVEL
LOG MEASURED FROM	0.00 m ABOVE PERMANENT DATUM
DRILLING MEASURED FROM	GROUND LEVEL
ELEVATION	0.00 m
PROJECT	0
LOCATION	0-0-0-0
LAT/LONG	0.000000 0.000000
LSD	0
SECTION	0
TWP	0
RGE	0
MERIDIAN	0
LICENCE	0
DRILLING CONTRACTOR	
RIG	0
SPUD	1-Jan-1900
TD	0.00 m
CASING	0.00 m @ 0.00 m
LIQUID	
BIT	0.00 m
FLUID IN HOLE	
MAX TEMP	0 C
EQUIPMENT	
RECORDED BY	
WITNESSED BY	

BUSINESS RECORD

Operator	Date	Time	Record	Description
RIG 0	1-Jan-1900	00:00	0	
RIG 0	1-Jan-1900	00:00	0	

CASING RECORD

Type	Size	Depth From	Depth To	Drill Depth	Weight
Casing	0.000 mm	0.00 m	0.00 m	0.00 m	0.00 kg/m

REMARKS

FLOWING/FRESH
WATER
WATER
CLEAN
FLOW BEAT, SPILLING SAND
SAND
SAND FILL, CORE
SAND FILL, CORE
SAND FILL, FLOWING
SAND FILL, FLOWING STRING ALONE

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0000-LOG-1 (1:200)

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\0000-LOG-1.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API (Track 2) — Density Correction (Track 3) — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

REPEAT SECTION

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\0000-LOG-1.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API (Track 2) — Density Correction (Track 3) — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

CORE DETAIL 1.20

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\CORE DETAIL 1.20.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API — Density Shock Sensor — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

CORE DETAIL 1.20

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\CORE DETAIL 1.20.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API — Density Shock Sensor — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

BEFORE SURVEY CALIBRATION

Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\0000-LOG-1.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API — Density Shock Sensor — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

CORE DETAIL 1.20

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\CORE DETAIL 1.20.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API — Density Shock Sensor — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

CORE DETAIL 1.20

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\CORE DETAIL 1.20.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API — Density Shock Sensor — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

BEFORE SURVEY CALIBRATION

Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\0000-LOG-1.tpl
Source Machine: Weatherford-PC
Source Version: Weatherford - Version 2.0 - Build 0 - Release Date: 4-Mar-2010

Printed on 27-Jul-2020 07:00
Margin: L=0.25, R=0.25, T=0.25, B=0.25
Scale: Vertical=1:200, Horizontal=1:10

Gamma Ray Scale 0 API — Density Shock Sensor — Caliper Scale 200 millimetres (Track 4) — Density Scale 1.95 g/cc (Track 5)

Depth Scale: 1:200 (Vertical)

CORE DETAIL 1.20

Source Data: Weatherford
Filename: C:\logdata\COMPLIANCE COAL CORP\0000-LOG-1.dat
Software: C:\logtools\WELLSITE\Version 2.0\Templates\CORE DETAIL 1.20

COMPANY	COMPLIANCE COAL CORP
WELL	RAVIR-014
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Other Services	DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER
Permanent Datum	GROUND LEVEL
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING
Elevation: Kelly Bushing	metres
Elevation: Ground Level	metres
Date	21-JUN-2009
Run Number	ONE
Depth Driller	112.50 metres
Depth Logger	112.05 metres
Bottom Log Interval	110.00 metres
Top Log Interval	0.20 metres
Casing Driller	0.00 metres @ 0.00 metres
Casing Logger	0.00 metres
Bit Size	140.00 mm
Drilling Fluid Type	WATER
Drilling Fluid Density	1.00 g/cm3
Drilling Fluid Viscosity	0.00 s
Drilling Fluid PH	0.00
Drilling Fluid Fluid Loss	0.00 ml
Source of Sample	FLOWING
Rm @ Measured Temp	0.000 ohmm @ 0.00 degC
Rmf @ Measured Temp	0.000 ohmm @ 0.00 degC
Rmc @ Measured Temp	0.000 ohmm @ 0.00 degC
Rm @ BHT	0.000 ohmm @ 0.00 degC
Rmf @ BHT	0.000 ohmm @ 0.00 degC
Rmc @ BHT	0.000 ohmm @ 0.00 degC
Max Rec Temp	0.00 degC
Equipment Number	1101
Location	0
Recorded By	D. CLEVELAND
Witnessed By	PC

COMPLIANCE COAL CORP
RAVIR-014
UNDEFINED
BRITISH COLUMBIA
CANADA

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

BOREHOLE RECORD

Last Edited: 21-JUN-2009 12:25

Bit Size millimetres	Depth From metres	Depth To metres
140.00	0.20	112.50
101.300	24.00	112.50

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	101.600	0.00	24.00	14.14

REMARKS

COORDINATES
NORTHING
SAMBO

EASTING
SAMBO

TOOL RUNS
WIRELINE MT 9812 SCANNER

BORE WALL COND : GOOD
DOR HOLE CONDITION : GOOD

WELL NOT FLOWING

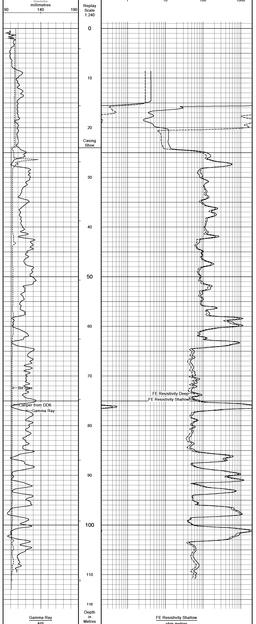
WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

MAIN LOG 1:240

Depth Based Data - Merged File
Parameter: C:\logs\Comcoal\RAVIR-014\014_MAIN.mgp
System Versions: Logged with: 8.06.02.02 Merged with: 8.06.02.02 Plotted with: 8.06.02.02

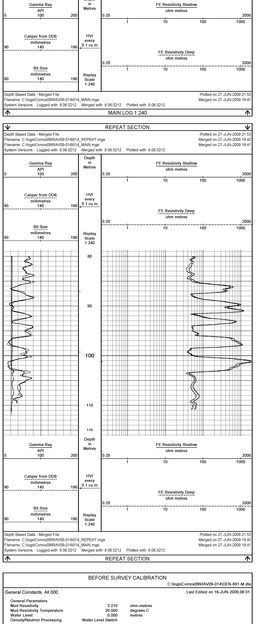
Plotted on 21-JUN-2009 21:10
Merged on 21-JUN-2009 19:41



REPEAT SECTION

Depth Based Data - Merged File
Parameter: C:\logs\Comcoal\RAVIR-014\014_REPEAT.mgp
System Versions: Logged with: 8.06.02.02 Merged with: 8.06.02.02 Plotted with: 8.06.02.02

Plotted on 21-JUN-2009 21:10
Merged on 21-JUN-2009 19:42
Merged on 21-JUN-2009 19:41



BEFORE SURVEY CALIBRATION

C:\logs\Comcoal\RAVIR-014\CEN-RFF-M.dfa

General Constants AI 000

Last Edited on 16-JUN-2009:36:01

General Parameters		
Mud Resistivity	3.210	ohm-metres
Mud Resistivity Temperature	Calibrator Temp	degrees
Water Level	0.000	metres
Density/Resistivity Processing	Water Level Switch	

Velocity/Acoustic Volume and Differential Caliper Parameters

HVCX: Caliper 1	Caliper from DD3	
HVCY: Caliper 2	Caliper from DD3	
Annular Volume Diameter	36.00	mm
Caliper for Differential Caliper	Caliper from DD3	

Raw Parameters	
Porosity used	N/A
Porosity Method	N/A
HWA Constant A	N/A
HWA Constant B	N/A

Gamma Calibration: DD6 691

Field Calibration on 10-JUN-2009:36:01

	Measured	Calibrated (API)
Background	17	27
Calibrator (Gross)	290	463
Calibrator (Net)	273	436

Gamma Constants: DD6 691

Last Edited on 21-MAY-2009:10:49

Gamma Calibrator Number	425

Density Calibration: DD6 691

Base Calibration on 10-JUN-2009:36:01
Field Check on

Well Hole	Measured Bed	Measured Lad	Calibrated (sdu) Bed	Calibrated (sdu) Lad
Reference 1	2846	1714	36247	28029
Reference 2	N/A	N/A	N/A	N/A

Dry Hole	Measured	Calibrated (sdu)
Reference 1	2846 1714	36247 28029
Reference 2	N/A N/A	N/A N/A

	Calibrated (sdu)	
Field Check at Base	0.0	0.0
	Calibrated (sdu)	
Field Check	0.0	0.0

Density Constants: DD6 691

Last Edited on 7-JUN-2009:09:36

Processing Type	DDS	
Density Source Hole Number	101HCA	
Density Source Hole Type	HCA	
Caliper Source for Processing	Caliper from Density	
Gamma Strip Coefficient	0.10	
Mud Density	1.11	g/cc
Density Hole Density	1.00	g/cc
BBG Scale	-0.50	
Density Scaler	1.50	

Matrix density (g/cc)

	Depth (m)	
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00

Well Hole Normalization	Measured g/cc	Calibrated g/cc
BBG Point 1	1.00	1.00
BBG Point 2	1.00	1.00
LBD Point 1	1.00	1.00
LBD Point 2	3.00	3.00

Dry Hole Normalization	Measured g/cc	Calibrated g/cc
BBG Point 1	1.00	1.00
BBG Point 2	1.00	1.00
LBD Point 1	1.00	1.00
LBD Point 2	3.00	3.00

Caliper Calibration: DD6 691

Base Calibration on 27-JUN-2009:12:15
Field Calibration on

Base Calibration Reading No	Measured	Calibrated Size (mm)
1	1991	76.20
2	2358	101.60
3	2725	127.00
4	3188	152.40
5	3609	177.80
6	4095	203.20

Field Calibration	Measured Caliper (mm)	Actual Caliper (mm)
	0.00	0.00

Sonic Constants: MS2 336

Last Edited on 27-JUN-2009:11:42

Maximum Boundary Contrast	328.08	micro-secs/m
Sonic Trace Delay	100.00	micro-secs
Limestone Transit Time	155.84	micro-secs/m
Sandstone Transit Time	142.09	micro-secs/m
Shale Transit Time	185.00	micro-secs/m
Sonic for Formation DTCA 40 cm Compensated Sonic 8318		
Transit Time for UCS Curve	MC2A 26 cm Sonic 8318	
Sonic Spacing	0.61	metres
UCS Exponent	3.0125	metres/sec
Transmitter-Receiver 1 Offset	24.90	inches
Transmitter-Receiver 2 Offset	30.00	inches
Transmitter-Receiver 3 Offset	40.00	inches
Transmitter-Receiver 4 Offset	48.00	inches

FE Calibration: RR5 544

Field Calibration on 21-JUN-2009:11:40

	Shallow	Deep	Calibrated (ohm-m)
Reference 1	4490.0	4490.0	3.8 1.5
Reference 2	3003.0	3003.0	2754.0 1918.0

FE Constants: RR5 544

Last Edited on 17-JUN-2009:18:48

Hi Contrast FE50 (deep + shallow)	2.100
Hi Contrast FE50 (deep + shallow)	1.900

Gamma Calibration: RR5 544

Field Calibration on 21-JUN-2009:11:40

	Measured	Calibrated (API)
Background	17	27
Calibrator (Gross)	290	463
Calibrator (Net)	274	436

Gamma Constants: RR5 544

Last Edited on 21-MAY-2009:10:41

Gamma Calibrator Number	425

Resistivity Tool Constants: RR5 544

Last Edited on 21-JUN-2009:11:41

Guide Mode	FE Mode
Bridle Electrode to Tool (mm)	3076.00

Borehole Geometry Constants V04 238

Last Edited on 21-JUN-2009:11:41

Configuration	Digitizer		
Magnetic Declination	24.10	degrees	East

Magnetometer Parameters V04 238

	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	315.000	312.000	283.000
Minimum	185.000	186.000	152.000

Level Calibration: V04 238

Field Calibration on 27-JUN-2009:11:41

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
150.00	114.00	-15.00	258.00	207.00	9.00
152.00	131.00	-15.00	215.00	214.00	10.00
154.00	148.00	-12.00	217.00	221.00	12.00
155.00	152.00	-10.00	248.00	248.00	20.00
161.00	159.00	-6.00	0.00	0.00	0.00
165.00	165.00	-3.00	0.00	0.00	0.00
174.00	172.00	-1.00	0.00	0.00	0.00
181.00	180.00	0.00	0.00	0.00	0.00
187.00	187.00	3.00	0.00	0.00	0.00
195.00	194.00	6.00	0.00	0.00	0.00
202.00	200.00	9.00	0.00	0.00	0.00

COMPANY	COMPLIANCE COAL CORP
WELL	RAVIR-014
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Other Services	DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

Permanent Datum	GROUND LEVEL	Elevation: Kelly Bushing	metres
Log Measured From	KELLY BUSHING	Elevation: Ground Level	metres
Drilling Measured From	KELLY BUSHING	Date	21-JUN-2009
Run Number	ONE	Depth Driller	112.50 metres
Depth Logger	112.05 metres	Bottom Log Interval	110.00 metres
Top Log Interval	0.20 metres	Casing Driller	0.00 metres @ 0.00 metres
Casing Logger	0.00 metres	Bit Size	140.00 mm
Drilling Fluid Type	WATER	Drilling Fluid Density	1.00 g/cm3
Drilling Fluid Viscosity	0.00 s	Drilling Fluid PH	0.00
Drilling Fluid Fluid Loss	0.00 ml	Source of Sample	FLOWING
Rm @ Measured Temp	0.000 ohmm @ 0.00 degC	Rmf @ Measured Temp	0.000 ohmm @ 0.00 degC
Rmc @ Measured Temp	0.000 ohmm @ 0.00 degC	Rm @ BHT	0.000 ohmm @ 0.00 degC
Rmf @ BHT	0.000 ohmm @ 0.00 degC	Rmc @ BHT	0.000 ohmm @ 0.00 degC
Max Rec Temp	0.00 degC	Equipment Number	1101
Location	0	Recorded By	D. CLEVELAND
Witnessed By	PC		

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-014
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
UWI	
LSD / SEC / TWP / RGE	Other Services
Licence Number	
Permanent Datum GL, Elevation NA metres	Elevations: metres
Log Measured From GROUND LEVEL above Permanent Datum	KB
Drilling Measured From	DF
	GL

Date	27-JUN-2009					
Run Number	1					
Depth Driller	112.50	metres				
Depth Logger	112.03	metres				
First Reading	112.00	metres				
Last Reading	0.00	metres				
Casing Driller	24.00	metres				
Casing Logger	24.00	metres				
Bit Size						
Hole Fluid Type	WATER					
Density / Viscosity						
PH / Fluid Loss						
Sample Source						
Rm @ Measured Temp						
Rmf @ Measured Temp						
Rmc @ Measured Temp						
Source Rmf / Rmc						
Rm @ BHT						
Time Since Circulation						
Max Recorded Temp						
Equipment Name						
Equipment / Base	11536	RDR				
Recorded By	J.MELANSON					
Witnessed By	O.CULLINGHAM					

BOREHOLE RECORD

Last Edited: 27-JUN-2009 12:25

Bit Size (millimetres)	Depth From (metres)	Depth To (metres)
107.000	0.00	24.00
101.300	24.00	112.00

CASING RECORD

Type	Size (millimetres)	Depth From (metres)	Shoe Depth (metres)	Weight (Kg/metre)
	107.000	0.00	24.00	14.14

REMARKS

COORDINATES:
NORTHING:
5484860

EASTING:
363000

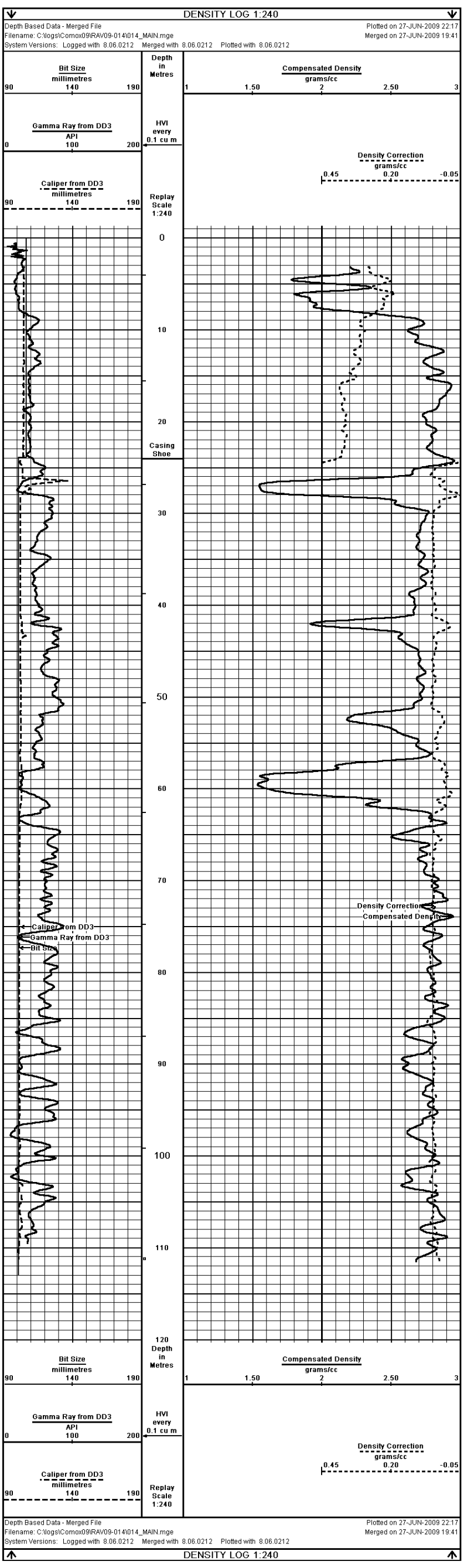
TOOL RUNS:
RR5,DD6,VRT,MS2,SCANNER

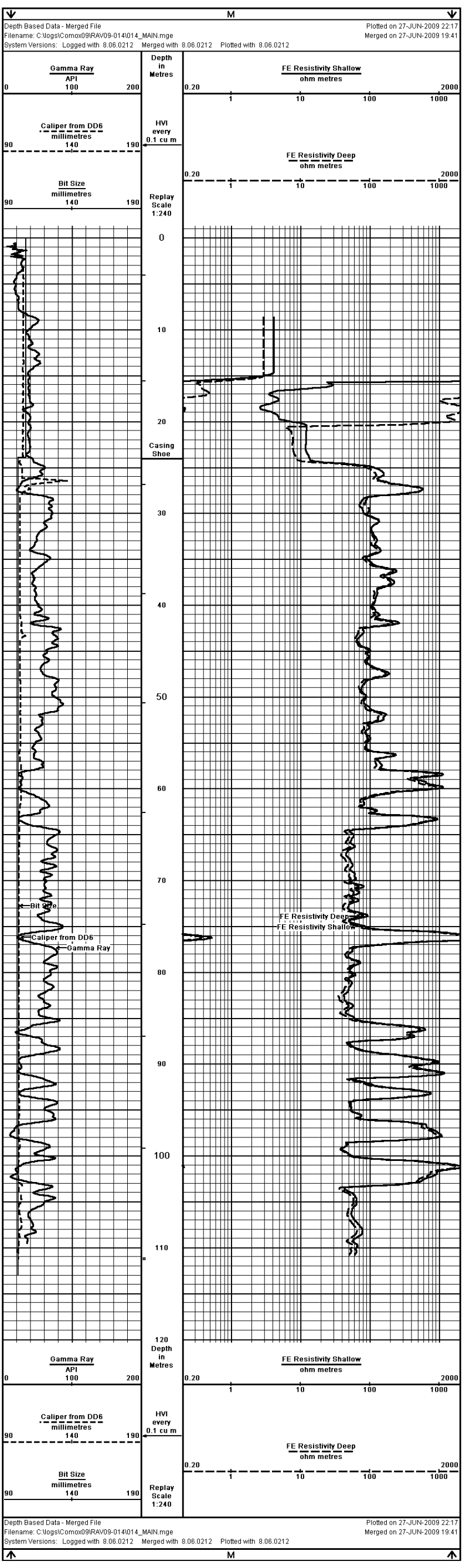
BORE WALL COND. : GOOD
BORE HOLE COND. : GOOD

WELL NOT FLOWING

WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made byany of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.





COMPANY	COMPLIANCE COAL CORP			
WELL	RAV09-014			
FIELD	UNDEFINED			
PROVINCE/COUNTY	BRITISH COLUMBIA			
COUNTRY/STATE	CANADA			
Elevation Kelly Bushing	metres	First Reading	112.00	metres
Elevation Drill Floor	metres	Depth Driller	112.50	metres
Elevation Ground Level	metres	Depth Logger	112.03	metres

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MINI PLOT

COMPANY	COMPLIANCE COAL CORP		60CM COMPENSATED SONIC
WELL	RAVOS-014		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Date	2011/07/29		
Time	08:00:00		
Depth Unit	Metres		
Time Unit	Seconds		
Drilling Method	ROTARY		
Log Type	PRIMARY		
Log Date	2011-JUL-29		
Log Time	08:00:00		
Run Number	ONE		
Depth Reference	KB		
Elevation	0.00		
Permanent Datum	GROUND LEVEL		
Log Measured From	KB		
Above Perm. Datum	0.00		
Max. Logged Depth	1.240		
Casing Driller	0.00		
Casing Logger	0.00		
Bit Size	0.00		
Fluid Type	UNKNOWN		
Density	0.00		
Viscosity	0.00		
Fluid Loss	0.00		
Source of Sample	NONE		
Rm @ Measured Temp	0.00		
Rmf @ Measured Temp	0.00		
Rmc @ Measured Temp	0.00		
Source Rmf / Rmc	NONE		
Rm @ BHT	0.00		
Max Recorded Temp	0.00		
Estimated Surface Temp	0.00		
Equipment	1001		
Logging Company	ROCKY MOUNTAIN DRILLING SERVICES		
Recorded By	DAVE		
Witnessed By	DARYL		

BOREHOLE RECORD

Bit Size (mm)	Depth From (m)	Depth To (m)
101.600	0.00	1.00
101.600	1.00	1.00

Last Edited: 27-JUN-2009 12:20

CASING RECORD

Type	Size (millimetres)	Depth From (metres)	Drive Depth (metres)	Weight (kg/metre)
	101.600	0.00	0.00	0.00

REMARKS

COORDINATES
NORTHING
0044992

EASTING
0000000

TOOL TYPE(S)
DUAL ARF/MEC/ACX/HNGR

BORE WALL COND - GOOD
BORE HOLE COND - GOOD

WELL NOT FLOWING

WELL WAS CLOSED STAND ALONE

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MAIN LOG 1 240

Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAVOS-014\CAL\MAIN.log
System Versions: Logged with: 8.08.0322 Merged with: 8.08.0322 Plotted with: 8.08.0212

Plotted on 27-JUN-2009 12:40
Merged on 27-JUN-2009 12:40

Casing Bottom
KB: 1.00
GL: 0.00

Caliper from DCD
millimetres
50 — 150

Bit Size
millimetres
50 — 150

Depth Scale
1 240

Casing Stop

Transit Time
every millisec
90 cm Compens. Sonic 91694
microseconds
520 — 420 — 320 — 220

T1-R1 Transit Time
microseconds
1100 — 700

T1-R2 Transit Time
microseconds
1100 — 700

T2-R1 Transit Time
microseconds
1100 — 700

T2-R2 Transit Time
microseconds
1100 — 700

Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAVOS-014\CAL\MAIN.log
System Versions: Logged with: 8.08.0322 Merged with: 8.08.0322 Plotted with: 8.08.0212

Plotted on 27-JUN-2009 12:40
Merged on 27-JUN-2009 12:40

REPEAT SECTION

Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAVOS-014\CAL\REPEAT.log
System Versions: Logged with: 8.08.0322 Merged with: 8.08.0322 Plotted with: 8.08.0212

Plotted on 27-JUN-2009 12:00
Merged on 27-JUN-2009 12:00
Merged on 27-JUN-2009 12:40

Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAVOS-014\CAL\REPEAT.log
System Versions: Logged with: 8.08.0322 Merged with: 8.08.0322 Plotted with: 8.08.0212

Plotted on 27-JUN-2009 12:00
Merged on 27-JUN-2009 12:00
Merged on 27-JUN-2009 12:40

REPEAT SECTION

BEFORE SURVEY CALIBRATION

C:\logs\Compliance\RAVOS-014\CEN-001.dat

General Constants: All 000

Last Edited on 16-JUN-2009 08:01

Mud Density	3.210	sim-metres
Mud Resistivity Temperature	20.000	degrees C
Mud Resistivity	0.000	metres
Density/Neutron Processing	Water Level Switch	

Hole/Borehole Volume and Differential Caliper Parameters

HVOL Caliper 1	Caliper from DCD	
HVOL Caliper 2	Caliper from DCD	
Annular Volume Diameter	76.200	mm
Caliper for Differential Caliper	Caliper from DCD	

Raw Parameters

Density Active	N/A	
Neutron Active	N/A	
AMA Constant A	N/A	
AMA Constant B	N/A	

Calibration Constants: DDB 681

Last Edited on 16-JUN-2009 08:01
Field Calibration on 16-JUN-2009 08:01

Gamma Calibration Number 425

	Measured	Calibrated (API)
Background	12	27
Calibration Gamma	206	409
Calibration Date	2009/ JUN/ 16	

Gamma Constants: DDB 681

Last Edited on 21-MAY-2009 15:46
Base Calibration on 16-JUN-2009 08:01
Field Check on

	Measured		Calibrated (cts)	
Base Calibration				
Well Kill	1714	1714	38.67	38.67
Reference 1	2690	1714	38.67	28.04
Reference 2	N/A	N/A	N/A	N/A
Field Check at Base			Calibrated (cts)	
			0.0	0.0
Field Check			Calibrated (cts)	
			0.0	0.0

Density Constants: DDB 681

Last Edited on 7-JUN-2009 09:58

Processing Type	DDB	
Density Cycle Length	1.000	
Aluminum Calibrator Number	112	
Caliper Source for Processing	Caliper from Density	
Hole Diameter Source	216.000	
Mud Density Source	1.11	gm/cc
Mud Density	1.110	gm/cc
BBG Scaler	-0.50	
Density Scaler	0.00	

Matrix density (gm/cc) Depth Scale

2.70	0.00
2.80	0.00
2.90	0.00
3.00	0.00
3.10	0.00
3.20	0.00

Well Kills Normalization	Measured gm/cc	Calibrated gm/cc
BBG Point 1	1.00	1.00
BBG Point 2	1.00	1.00
LBD Point 1	1.00	1.00
LBD Point 2	1.00	1.00

Dry Hole Normalization	Measured gm/cc	Calibrated gm/cc
BBG Point 1	1.00	1.00
BBG Point 2	1.00	1.00
LBD Point 1	1.00	1.00
LBD Point 2	1.00	1.00

Caliper Calibration: DDB 681

Base Calibration on 25-JUN-2009 22:15
Field Calibration on

	Measured	Calibrated Size (mm)	
1	1991	76.20	
2	2690	101.60	
3	3390	152.40	
4	3588	152.40	
5	4288	203.20	
6	4487	203.20	
Field Calibration	Measured Caliper (mm)	Actual Caliper (mm)	
	0.00	0.00	

Sonic Constants: MSC 330

Last Edited on 27-JUN-2009 11:40

Maximum Secondary Contrast	329.08	micro-secs/m
Float Transit Time	625.08	micro-secs/m
Minimum Primary Contrast	329.08	micro-secs/m
Sandstone Transit Time	182.88	micro-secs/m
Dolomite Transit Time	143.75	micro-secs/m
Sonic Processing Method	STOLAR-MC on Compensated Sonic	
Transit Time for LVS Curve	MC,96,20 on Sonic 91694	
LVS Threshold	10.00	%
LVS Comment	Fixed Gain	gain/attenuation
Transmitter-Receiver 1 Offset	91.00	inches
Transmitter-Receiver 2 Offset	274	inches
Transmitter-Receiver 3 Offset	40.00	inches
Transmitter-Receiver 4 Offset	307.00	inches

FE Calibration: RRS 544

Last Edited on 27-JUN-2009 11:40
Field Calibration on 27-JUN-2009 11:40

	Measured	Calibrated (mm-m)
Reference 1	4490.0	2.5 1.5
Reference 2	5003.0	2.5 4.0 1.5

Gamma Calibration: RRS 544

Last Edited on 17-JUN-2009 14:46
Field Calibration on 27-JUN-2009 11:40

	Measured	Calibrated (API)
Background	16	25
Calibration (Gamma)	74	409
Calibration (Bed)	274	496

Gamma Constants: RRS 544

Last Edited on 21-MAY-2009 10:41

Resistivity Tool Constants: RRS 544

Last Edited on 21-MAY-2009 11:41

Probe Calibration Number	FE Mode
Bridle Electrode Ko Tool	3078.00

Electrode Geometry Constants: VS4 238

Last Edited on 27-JUN-2009 11:41

Configuration	Dipmeter
Magnetic Declination	16.10 degrees East

Magnetometer Parameters VS4 238

Last Edited on 27-JUN-2009 11:41

	X Magnetometer	Y Magnetometer	Z Magnetometer
Minimum	213.000	213.000	201.000
Maximum	145.000	146.000	162.000

Pad Cell Calibration: VS4 238

Field Calibration on 27-JUN-2009 11:41

Cell 1 Counts	Cell 2 Counts	T38 (degrees)	Cell 1 Counts	Cell 2 Counts	T38 (degrees)
72.00	72.00	19.00	214.00	214.00	19.00
72.00	72.00	19.00	215.00	214.00	19.00
148.00	147.00	-10.00	231.00	229.00	19.00
149.00	147.00	0.00	232.00	229.00	19.00
149.00	148.00	0.00	232.00	230.00	19.00
150.00	148.00	0.00	233.00	230.00	19.00
174.00	172.00	2.00	234.00	231.00	19.00
175.00	172.00	2.00	235.00	231.00	19.00
175.00	173.00	2.00	236.00	232.00	19.00
176.00	173.00	2.00	237.00	232.00	19.00
196.00	194.00	4.00	238.00	233.00	19.00
197.00	194.00	4.00	239.00	233.00	19.00

COMPANY	COMPLIANCE COAL CORP		60CM COMPENSATED SONIC
WELL	RAVOS-014		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Date	2011/07/29		
Time	08:00:00		
Depth Unit	Metres		
Time Unit	Seconds		
Drilling Method	ROTARY		
Log Type	PRIMARY		
Log Date	2011-JUL-29		
Log Time	08:00:00		
Run Number	ONE		
Depth Reference	KB		
Elevation	0.00		
Permanent Datum	GROUND LEVEL		
Log Measured From	KB		
Above Perm. Datum	0.00		
Max. Logged Depth	1.240		
Casing Driller	0.00		
Casing Logger	0.00		
Bit Size	0.00		
Fluid Type	UNKNOWN		
Density	0.00		
Viscosity	0.00		
Fluid Loss	0.00		
Source of Sample	NONE		
Rm @ Measured Temp	0.00		
Rmf @ Measured Temp	0.00		
Rmc @ Measured Temp	0.00		
Source Rmf / Rmc	NONE		
Rm @ BHT	0.00		
Max Recorded Temp	0.00		
Estimated Surface Temp	0.00		
Equipment	1001		
Logging Company	ROCKY MOUNTAIN DRILLING SERVICES		
Recorded By	DAVE		
Witnessed By	DARYL		

Weatherford

VERTICALITY ANALYSIS

COMPANY COMPLIANCE COAL CORP
WELL RAV09-014
FIELD UNDEFINED
PROVINCE/COUNTRY BRITISH COLUMBIA
COUNTRY/STATE CANADA

| | | |

Density Short Spaced	gramsec	1.95	3
Density Long Spaced	gramsec	1.95	3
Caliper from DCD	inches	6	16
Gamma Ray from DCD	API	0	200
FE Resistivity Shallow	ohm metres	2	2000
FE Resistivity Deep	ohm metres	2	2000
Compensated Density	gramsec	2	3
Density Corrector	gramsec	-0.25	0.25
Vertically Turbulent Magnetic North	nT	50000	60000
Depth in Metres		190	0

Density Short Spaced	gramsec	1.95	3
Density Long Spaced	gramsec	1.95	3
Caliper from DCD	inches	6	16
Gamma Ray from DCD	API	0	200
FE Resistivity Shallow	ohm metres	2	2000
FE Resistivity Deep	ohm metres	2	2000
Compensated Density	gramsec	2	3
Density Corrector	gramsec	-0.25	0.25
Vertically Turbulent Magnetic North	nT	50000	60000
Depth in Metres		190	0

Depth Scale Date - Merged File
Filename: C:\logs\Canos\RAV09-015\RAV09-015_MWN.mgs
System Versions: Merged with 6.06.0212 Printed with 6.06.0212
Printed on 02-JUL-2009 09:12
Merged on 02-JUL-2009 09:05

COMPOSITE LOG 1:240

Depth Scale Date - Merged File
Filename: C:\logs\Canos\RAV09-015\RAV09-015_MWN.mgs
System Versions: Merged with 6.06.0212 Printed with 6.06.0212
Printed on 02-JUL-2009 09:12
Merged on 02-JUL-2009 09:05

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-015
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres		First Reading	000.00	metres
Elevation Grd Floor	metres		Depth Driller	000.00	metres
Elevation Ground Level	metres		Depth Logger	000.00	metres

Weatherford

COMPOSITE COAL LOG

WELL TEST REPORT

Operator	Hunterford
Well	100/16-08-060-08W6/00
Test Number	1
Test Type	Conventional
Test Date	2011-11-28
Test Time	08:00
Test Duration	6 hrs 0 min
Tester	Tyler Hunter
Witnessed By	Ryan Hunter
Test Company	Hunterford
Test Equipment	2
Test Method	Conventional
Test Type	Initial Test
Formation	Bluesky
Perforations	1
Gas Measurement	Not Measured
Oil Measurement	Measured
Water Measurement	Measured
Gas Flare	Not Flared
Oil Disposal	Sales
Water Disposal	Disposal Well

Comments

Comments:
Test Type:
Test Method:
Tester:
Test Company:
Test Equipment:
Gas Flare:
Gas Meter:
Oil Disposal: Sales - Sales - 40 - 40.00000 0.0000 0.0000
Water Disposal: Disposal Well
Gas Meter Number:
Gas Meter Orifice Size:
Gas Meter Differential Gauge: Not Applicable
Gas Meter Static Gauge: Not Applicable
Gas Meter Temperature: Not Applicable
Gas Meter Gravity: Not Applicable
Gas Meter Z Factor: Not Applicable
Gas Meter Flow Coefficient: Not Applicable
Gas Meter Flow Exponent: Not Applicable
Gas Meter Pressure Base: Not Applicable
Gas Meter Temperature Base: Not Applicable
Gas Meter Gravity Base: Not Applicable
Gas Meter Z Factor Base: Not Applicable
Gas Meter Pressure Units: Not Applicable
Gas Meter Temperature Units: Not Applicable
Gas Meter Gravity Units: Not Applicable
Gas Meter Z Factor Units: Not Applicable
Gas Meter Flow Coefficient Units: Not Applicable
Gas Meter Flow Exponent Units: Not Applicable
Gas Meter Pressure Base Units: Not Applicable
Gas Meter Temperature Base Units: Not Applicable
Gas Meter Gravity Base Units: Not Applicable
Gas Meter Z Factor Base Units

COMPLIANCE COAL CORP
RK09-015
UNDEFINED
BRITISH COLUMBIA
CANADA

DUAL FOCUSED ELECTRIC
Gamma Ray, CALIPER

COMPANY	COMPLIANCE COAL CORP	Log Date	2009-08-04
WELL	RK09-015	Log Time	09:00
FIELD	UNDEFINED	Run Number	ONE
PROVINCE/COUNTY	BRITISH COLUMBIA	Depth Driller	1000.00
COUNTRY/STATE	CANADA	Depth Logger	1000.00
Surface Location	Latitude: Longitude:	Bottom Log Interval	1000.00
Elevation: Kelly Bushing:	Ground Level:	Top Log Interval	0.00

Weatherford

DIAMOND DRILL CORE
DEPTH CORRECTED
DEPTH CORRECTED
DEPTH CORRECTED

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-015
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

LOC | SEC | TWP | RGE | Other Services

Licence Number

Permanent Datum GL, Elevation MA metres

Log Measured From DF, KB, GROUND LEVEL, Above Permanent Datum

Date 01-JUL-2009

Depth Driller 368.00 metres

Depth Logger 368.00 metres

Bottom Log Interval 368.00 metres

Top Log Interval 0.00 metres

Casing Driller 13.50 metres

Casing Logger 13.50 metres

Bit Size 134 mm

Type Fluid in Hole WATER

Salinity, Density

PH, Fluid Loss

Source Sample

Rm @ Measured Temp

Rmf @ Measured Temp

Rmc @ Measured Temp

Rm @ BHT

Time Since Circulation

Time Since Cement

Equipment Number

Equipment Base

Recorded By 11SKA

Witnessed By O.CALLINGHAM

Elevations: KB metres, DF, GL

BOREHOLE RECORD

Last Edited: 02-JUL-2009 09:02

Bit Size millimetres	Depth From metres	Depth To metres
106.000	0.00	134.20
105.000	134.20	311.00
101.000	311.00	368.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	105.000	13.50	0.00	

REMARKS

COORDINATES:
NORTHING:
5485450

EASTING:
364200

TOOL RUNS:
RR5,DD6,VRT

BORE WALL COND : MEDIUM - BIG WASHOUT UNDER CASING.
BORE HOLE COND : GOOD

WELL FLOWING

WELL WAS LOGGED STAND ALONE

LOST 2M OF GAMMA UNDER CASING DUE TO WASHOUT AND TOOL GETTING STUCK

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made byany of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

DENSITY.LOC 1.240
M
Bit Size
Caliper from DIA
Caliper from DIA
Compensated Density
Density Correction
Density Correction
Caliper from DIA
Bit Size
Caliper from DIA
Caliper from DIA
Compensated Density
Density Correction
Density Correction
Caliper from DIA
Bit Size
Caliper from DIA
Caliper from DIA
CZ Resistivity Image
CZ Resistivity Image
CZ Resistivity Image
CZ Resistivity Image
CZ Resistivity Image
CZ Resistivity Image
Casing shoe
Casing shoe
Density Log
Density Log
Density Log

VERTICALITY ANALYSIS

Company	COMPLIANCE COAL CORP
Well	RAV09-015
Field	UNDEFINED
Province/County	BRITISH COLUMBIA
Country/State	CANADA
Date	02-JUL-2009
Time	09:53
Operator	DOUGLAS
Rig	DRILL CORE
Weather	SUNNY
Temperature	15 C
Witnessed By	PROVIDENCIO / COMPLIANCE CORP
Location	BRITISH COLUMBIA
Comments	

BOREHOLE RECORD

Last Edited: 02-JUL-2009 09:53

Bit Size (millimetres)	Depth From (metres)	Depth To (metres)
154.00	0.00	152.4
100.000	154.20	311.00
101.000	311.00	366.00

CASING RECORD

Type	Size (millimetres)	Depth Set (metres)	Shoe Depth (metres)	Weight (kg/m)
	100.000	0.00	13.50	0.00

REMARKS

COORDINATES
NORTHING:
EASTING:

DATING
NAD 83

TOOL BUNG
WALLDEN 491

BORE WALL CONDI - MEDIUM / BIG WASHOUT UNDER CASING
BORE HOLE CONDI - GOOD

WELL FLOWING

WELL WAS LOGGED 87HRS ALONE

LAST 200 OF CAMMIN UNDER CASING DUE TO WASHOUT AND TOOL GETTING STUCK

Verticality Analysis Interpretation Notes

02-JUL-2009 09:53

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metre) and 1:40000(degrees), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metersfilled depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Although verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, the raw data is still valid and may be used for other purposes. For the analysis all of the data logged at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross section for the entire hole).

Given below a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logic\Cmmdd09\RAV09-015\054-236 Mt Ab

All Co-ordinates With Respect To True North, all depths in metres

Final Depth : 8.10, 0.08 North, 0.08 East of Origin

Date Processed : 02-JUL-2009
Data Logged : 01-JUL-2009

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR	
Log	True	Inc	Azim	North	East	Brg	Radius
12.00	12.00	0.4	61.1	0.01	0.00	49	0.02
13.00	13.00	0.4	61.1	0.01	0.01	49	0.02
14.00	14.00	0.4	61.1	0.01	0.01	49	0.02
15.00	15.00	0.4	169.4	-0.02	0.02	114	0.03
16.00	16.00	0.4	161.7	-0.02	0.04	113	0.05
17.00	17.00	0.4	161.7	-0.03	0.05	113	0.06
18.00	18.00	0.4	161.7	-0.04	0.06	113	0.07
19.00	19.00	0.4	161.7	-0.05	0.07	113	0.08
20.00	20.00	0.6	165.7	-0.06	0.07	129	0.11
21.00	21.00	0.6	165.7	-0.08	0.08	129	0.13
22.00	22.00	0.6	157.7	-0.09	0.09	135	0.15
23.00	23.00	0.9	141.9	-0.13	0.11	145	0.19
24.00	24.00	0.9	141.9	-0.15	0.13	145	0.22
25.00	25.00	0.9	177.1	-0.20	0.14	145	0.24
26.00	26.00	0.9	167.8	-0.25	0.16	145	0.27
27.00	27.00	0.9	167.8	-0.29	0.18	145	0.31
28.00	28.00	0.9	157.7	-0.33	0.20	145	0.33
42.00	42.00	1.2	175.9	-0.50	0.26	146	0.56
43.00	43.00	1.2	175.9	-0.52	0.27	146	0.58
44.00	44.00	1.2	182.4	-0.54	0.28	147	0.60
45.00	45.00	1.2	182.4	-0.56	0.28	147	0.62
50.00	50.00	0.9	142.2	-0.62	0.27	146	0.49
51.00	51.00	0.9	142.2	-0.63	0.28	146	0.50
52.00	52.00	0.9	142.2	-0.64	0.29	146	0.51
53.00	53.00	0.9	161.9	-0.67	0.31	147	0.56
54.00	54.00	0.9	161.9	-0.69	0.32	147	0.58
55.00	55.00	0.9	161.9	-0.71	0.33	147	0.60
63.00	61.99	1.0	189.6	-0.93	0.34	149	0.95
64.00	62.99	1.0	189.6	-0.95	0.34	149	0.97
65.00	63.99	1.0	189.6	-0.97	0.34	149	0.99
66.00	64.99	0.9	151.1	-0.63	0.37	150	0.73
67.00	65.99	0.9	151.1	-0.65	0.37	150	0.75
68.00	66.99	0.9	151.1	-0.67	0.38	150	0.77
74.00	72.99	0.6	153.1	-0.76	0.41	149	0.82
75.00	73.99	0.6	153.1	-0.77	0.42	149	0.83
76.00	74.99	0.6	153.1	-0.78	0.42	149	0.84
77.00	75.99	0.6	148.6	-0.77	0.46	149	0.90
78.00	76.99	0.6	148.6	-0.77	0.46	149	0.90
79.00	77.99	0.6	148.6	-0.78	0.47	149	0.91
84.00	82.99	0.9	141.0	-0.83	0.53	149	0.99
85.00	83.99	0.9	141.0	-0.85	0.54	149	1.01
86.00	84.99	0.9	141.0	-0.86	0.55	149	1.02
87.00	85.99	1.1	152.2	-0.90	0.53	149	1.21
88.00	86.99	1.1	152.2	-0.92	0.54	149	1.23
89.00	87.99	1.1	152.2	-0.94	0.55	149	1.25
90.00	88.99	0.9	142.6	-0.92	0.58	149	1.09
91.00	89.99	0.9	142.6	-0.93	0.59	149	1.10
92.00	90.99	0.9	142.6	-0.94	0.60	149	1.12
105.00	99.99	0.5	185.9	-0.99	0.62	148	1.17
106.00	100.99	0.5	185.9	-1.00	0.62	148	1.18
107.00	101.99	0.5	185.9	-1.01	0.62	148	1.19
108.00	105.99	0.6	186.3	-1.08	0.65	148	1.25
109.00	106.99	0.6	186.3	-1.09	0.65	148	1.26
110.00	107.99	0.6	186.3	-1.10	0.65	148	1.27
111.00	111.98	0.9	135.6	-1.12	0.75	148	1.32
112.00	112.98	0.9	135.6	-1.13	0.76	148	1.34
113.00	113.98	0.9	135.6	-1.14	0.77	148	1.36
119.00	117.98	1.2	153.7	-1.19	0.74	148	1.40
120.00	118.98	1.2	153.7	-1.20	0.75	148	1.41
121.00	119.98	1.2	153.7	-1.21	0.76	148	1.42
122.00	120.98	1.3	149.6	-1.21	0.81	147	1.50
123.00	121.98	1.3	149.6	-1.22	0.82	147	1.51
124.00	122.98	1.3	149.6	-1.23	0.83	147	1.52
133.00	131.98	1.1	122.6	-1.32	0.97	147	1.64
134.00	132.98	1.1	122.6	-1.33	0.98	147	1.65
135.00	133.98	1.1	122.6	-1.34	0.99	147	1.66
136.00	137.98	0.9	146.0	-1.38	0.92	146	1.66
137.00	138.98	0.9	146.0	-1.39	0.92	146	1.67
138.00	139.98	0.9	146.0	-1.39	0.93	146	1.68
143.00	143.98	0.9	186.2	-1.44	0.97	146	1.74
144.00	144.98	0.9	186.2	-1.45	0.97	146	1.75
145.00	145.98	0.9	186.2	-1.46	0.97	146	1.76
150.00	149.98	0.6	167.6	-1.51	1.02	146	1.82
151.00	150.98	0.6	167.6	-1.52	1.02	146	1.83
152.00	151.98	0.6	167.6	-1.52	1.02	146	1.83
158.00	155.98	0.9	156.5	-1.58	1.06	146	1.90
159.00	156.98	0.9	156.5	-1.59	1.07	146	1.91
160.00	157.98	0.9	156.5	-1.60	1.08	146	1.92
164.00	161.98	0.9	157.1	-1.64	1.11	146	1.98
165.00	162.98	0.9	157.1	-1.65	1.12	146	2.00
166.00	163.98	0.9	157.1	-1.66	1.12	146	2.00
170.00	167.98	1.1	125.5	-1.69	1.22	146	2.08
171.00	168.98	1.1	125.5	-1.70	1.23	146	2.09
172.00	169.98	1.1	125.5	-1.70	1.24	146	2.10
175.00	173.98	1.1	125.5	-1.73	1.25	146	2.14
176.00	174.98	1.1	125.5	-1.74	1.26	146	2.15
177.00	175.98	1.1	125.5	-1.75	1.26	146	2.16
181.00	179.98	0.9	152.1	-1.84	1.29	146	2.24
182.00	180.98	0.9	152.1	-1.85	1.30	146	2.25
183.00	181.98	0.9	152.1	-1.86	1.31	146	2.26
188.00	187.98	0.9	155.7	-1.90	1.34	145	2.32
189.00	188.98	0.9	155.7	-1.91	1.34	145	2.33
190.00	189.98	0.9	155.7	-1.92	1.35	145	2.34
193.00	192.98	0.6	168.1	-1.96	1.38	145	2.40
194.00	193.98	0.6	168.1	-1.97	1.38	145	2.41
195.00	194.98	0.6	168.1	-1.97	1.38	145	2.41
198.00	197.98	0.6	172.8	-2.00	1.39	145	2.45
199.00	198.98	0.6	172.8	-2.01	1.39	145	2.46
200.00	199.98	0.6	172.8	-2.01	1.39	145	2.46
203.00	202.98	0.9	137.1	-2.04	1.44	145	2.52
204.00	203.98	0.9	137.1	-2.05	1.45	145	2.53
205.00	204.98	0.9	137.1	-2.06	1.46	145	2.54
208.00	207.98	0.6	113.3	-2.10	1.55	146	2.58
209.00	208.98	0.6	113.3	-2.11	1.56	146	2.59
210.00	209.98	0.6	113.3	-2.11	1.56	146	2.60
213.00	212.98	0.6	148.4	-2.16	1.55	144	2.65
214.00	213.98	0.6	148.4	-2.16	1.55	144	2.66
215.00	214.98	0.6	148.4	-2.17	1.55	144	2.66
218.00	217.98	0.9	153.9	-2.21	1.60	144	2.73
219.00	218.98	0.9	153.9	-2.22	1.61	144	2.74
220.00	219.98	0.9	153.9	-2.23	1.61	144	2.75
223.00	222.98	0.9	157.7	-2.26	1.65	144	2.81
224.00	223.98	0.9	157.7	-2.27	1.65	144	2.82
225.00	224.98	0.9	157.7	-2.28	1.65	144	2.83
228.00	227.98	0.6	153.0	-2.31	1.69	144	2.88
229.00	228.98	0.6	153.0	-2.31	1.69	144	2.89
230.00	229.98	0.6	153.0	-2.31	1.70	144	2.89
233.00	232.98	0.6	145.5	-2.35	1.73	144	2.94
234.00	233.98	0.6	145.5	-2.35	1.74	144	2.95
235.00	234.98	0.6	145.5	-2.36	1.74	144	2.96
238.00	237.98	0.6	142.0	-2.39	1.77	144	3.01
239.00	238.98	0.6	142.0	-2.40	1.78	144	3.02
240.00	239.98	0.6	142.0	-2.40	1.79	144	3.03
243.00	242.98	0.6	141.1	-2.43	1.81	143	3.08
244.00	243.98	0.6	141.1	-2.44	1.82	143	3.09
245.00	244.98	0.6	141.1	-2.45	1.83	143	3.10
248.00	247.98	0.6	141.1	-2.48	1.85	143	3.14
249.00	248.98	0.6	141.1	-2.49	1.86	143	3.15
250.00	249.98	0.6	141.1	-2.50	1.87	143	3.16
253.00	252.98	0.6	149.1	-2.51	1.88	143	3.19
254.00	253.98	0.6	149.1	-2.52	1.88	143	3.20
255.00	254.98	0.6	149.1	-2.52	1.89	143	3.21
258.00	257.98	0.6	141.1	-2.57	1.91	143	3.25
259.00	258.98	0.6	141.1	-2.58	1.92	143	3.26
260.00	259.98	0.6	141.1	-2.59	1.93	143	3.27
263.00	262.98	0.4	129.3	-2.62	1.95	143	3.31
264.00	263.98	0.4	129.3	-2.62	1.95	143	3.32
265.00	264.98	0.4	129.3	-2.62	1.95	143	3.32
270.00	269.98	0.6	152.6	-2.66	1.99	143	3.38
271.00	270.98	0.6	152.6	-2.67	1.99	143	3.39
272.00	271.98	0.6	152.6	-2.67	1.99	143	3.39
275.00	274.98	0.6	134.9	-2.71	2.02	143	3.43
276.00	275.98	0.6	134.9	-2.72	2.03	143	3.44
277.00	276.98	0.6	134.9	-2.73	2.04	143	3.45
280.00	279.98	0.6	167.7	-2.76	2.05	143	3.50
281.00	280.98	0.6	167.7	-2.77	2.05	143	3.50
282.00	281.98	0.6	167.7	-2.77	2.05	143	3.50
285.00	284.98	0.6	152.6	-2.81	2.08	143	3.56
286.00	285.98	0.6	152.6	-2.82	2.09	143	3.57
287.00	286.98	0.6	152.6	-2.82	2.09	143	3.58
290.00	289.98	0.6	136.8	-2.86	2.12	143	3.62
291.00	290.98	0.6	136.8	-2.86	2.13	143	3.63
292.00	291.98	0.6	136.8	-2.87	2.13	143	3.64
295.00	294.98	0.6	167.7	-2.91	2.14	143	3.70
296.00	295.98	0.6	167.7	-2.91	2.14	143	3.70
297.00	296.98	0.6	167.7	-2.92	2.14	143	3.71
300.00	299.98	0.6	148.2	-2.95	2.18	143	3.76
301.00	300.98	0.6	148.2	-2.96	2.19	143	3.77
302.00	301.98	0.6	148.2	-2.96	2.19	143	3.78
305.00	304.98	0.6	148.2	-2.99	2.21	143	3.82
306.00	305.98	0.6	148.2	-3.00	2.22	143	3.83
307.00	306.98	0.6	148.2	-3.01	2.22	143	3.84
310.00	309.98	0.6	151.9	-3.04	2.24	143	3.88
311.00	310.98	0.6	151.9	-3.05	2.25	143	3.89
312.00	311.98	0.6	151.9	-3.05	2.25	143	3.90
315.00	314.98	0.6	163.1	-3.08	2.26	143	3.94
316.00	315.98	0.6	163.1	-3.14	2.28	144	3.99
317.00	316.98	0.6	163.1	-3.14	2.28	144	3.99
320.00	319.98	0.9	189.3	-3.24	2.32	145	4.09
321.00	320.97	0.9	189.3	-3.24	2.32	145	4.09
322.00	321.97	0.9	189.3	-3.24	2.32	145	4.09
325.00	324.97	0.9	189.3	-3.34	2.32	145	4.09
326.00	325.97	0.9	189.3	-3.34	2.32	145	4.09
327.00	326.97	0.9	189.3	-3.34	2.32	145	4.12
330.00	329.97	0.9	173.4	-3.43	2.35	146	4.15
331.00	330.97	0.9	173.4	-3.44	2.35	146	4.16
332.00	331.97	0.9	173.4	-3.44	2.35	146	4.17
340.00	339.97	0.9	178.5	-3.54	2.34	147	4.24
341.00	340.97	0.9	178.5	-3.54	2.34	147	4.25
342.00	341.97	0.9	178.5	-3.54	2.34	147	4.25
345.00	344.97	0.9	280.2	-3.56	2.34	146	4.30
346.00	345.97	0.9	280.2	-3.56	2.34	146	4.30
347.00	346.97	0.9	280.2	-3.56	2.34	146	4.30
350.00	349.97	0.9	142.6	-3.64	2.29	145	4.34
351.00	350.97	0.9	142.6	-3.65	2.29	145	4.35
352.00	351.97	0.9	142.6	-3.66	2.29	145	4.36
354.00	353.97	0.9	142.6	-3.76	2.35	145	4.45
355.00	354.97	0.9	142.6	-3.77	2.36	145	4.46
356.00	355.97	0.9	142.6	-3.78	2.36	145	4.47
359.00	358.97	1.2	201.4	-3.89	2.35	149	4.54
360.00	359.97	1.2	201.4	-3.90	2.35	149	4.55
361.00	360.96	1.2	201.4	-3.91	2.35	149	4.56
365.00	365.96	0.9	188.5	-4.00	2.35	150	4.64

Cross Section

All Figures are Log Depths in metres

Target Origin Depth 8.10
Last Plotted Depth 365.00
Vertical Section Scale in multiples of 50
Final Depth Marker at 50
Last Depth Marker at 350

Plot With Respect to True North
Scale 1:100
Declination 18.1 deg East

Final Borehole Position
The last plotted depth is at
4.00 metres South
0.40 metres East
or 4.04 metres from the origin
150 deg from True North

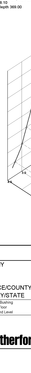
Vertical Sections

North-South Section

(True Depth vs Displacement)
Vertical Scale 1:500
Horizontal Scale 1:20

Markers annotated as above

East-West Section



Depth Correction Analysis

Log Depth

Vertical Scale 1:5000
Horizontal Scale 1:1

Depths Log	True	Depths Log	True	Depths Log	True
12.00	12.00	144.00	143.98	276.00	271.98
13.00	13.00	145.00	144.98	277.00	272.98
14.00	14.00	150.00	149.98	278.00	273.98
15.00	15.00	151.00	150.98	279.00	274.98
16.00	16.00	152.00	151.98	280.00	275.97
17.00	17.00	158.00	155.98	281.00	276.97
18.00	18.00	159.00	156.98	282.00	277.97
19.00	19.00	160.00	157.98	285.00	280.97
20.00	20.00	164.00	161.98	286.00	281.97
21.00	21.00	165.00	162.98	287.00	282.97
22.00	22.00	166.00	163.98	290.00	285.97
23.00	23.00	170.00	167.98	291.00	286.97
24.00	24.00	171.00	168.98	292.00	287.97
25.00	25.00	172.00	169.98	295.00	290.97
26.00	26.00	175.00	173.98	296.00	291.97
27.00	27.00	176.00	174.98	297.00	292.97
28.00	28.00	177.00	175.98	300.00	295.97
42.00	42.00	181.00	179.98	301.00	296.97
43.00	43.00	182.00	180.98	302.00	297.97
44.00	44.00	183.00	181.98	305.00	300.97
45.00	45.00	188.00	187.98	306.00	301.97
50.00	50.00	189.00	188.98	307.00	302.97
51.00	51.00	190.00	189.98	310.00	305.97
52.00	52.00	193.00	192.98	311.00	306.97
53.00	53.00	194.00	193.98	312.00	307.97
54.00	54.00	195.00	194.98	315.00	310.97
55.00	55.00	198.00	197.98	316.00	311.97
63.00	61.99	199.00	198.98	317.00	312.97
64.00	62.99	200.00	199.98	320.00	315.97
65.00	63.99	203.00	202.98	321.00	316.97
66.00	64.99	204.00	203.98	322.00	317.97
67.00	65.99	205.00	204.98	325.00	320.97
68.00	66.99	208.00	207.98	326.00	321.97
74.00	72.99	209.00	208.98	327.00	322.97
75.00	73.99	210.00	209.98	340.00	335.97
76.00	74.99	213.00	212.98	341.00	336.97
77.00	75.99	214.00	213.98	342.00	337.97
78.00	76.99	215.00	214.98	345.00	340.97
79.00	77.99	218.00	217.98	346.00	341.97
84.00	82.99	219.00	218.98	347.00	342.97
85.00	83.99	220.00	219.98	350.00	345.97
86.00	84.99	223.00	222.98	351.00	346.97
87.00	85.99	224.00	223.98	352.00	347.97
88.00	86.99	225.00	224.98	355.00	350.97
89.00	87.99	228.00	227.98	356.00	351.97
90.00	88.99	229.00	228.98	357.00	352.97
91.00	89.99	230.00	229.98	360.00	355.97
92.00	90.99	233.00	232.98	361.00	356.97
105.00	99.99	234.00	233.98	362.00	357.97
106.00	100.99	235.00	234.98	365.00	360.96
107.00	101.99	238.00	237.98		
108.00	105.99	239.00	238.98		
109.00	106.99	240.00	239.98		
110.00	107.99	243.00	242.98		
111.00	111.98	244.00	243.98		
112.00	112.98	245.00	244.98		
113.00	113.98	248.00	247.98		
119.00	117.98	249.00	248.98		
120.00	118.98	250.00	249.98		
121.00	119.98	253.00	252.98		
122.00	120.98	254.00	253.98		
123.00	121.98	255.00	254.98		
124.00	122.98	258.00	257.98		
133.00	131.98	259.00	258.98		
134.00	132.98	260.00	259.98		
135.00	133.98	263.00	262.98		
136.00	137.98	264.00	263.98		
137.00	138.98	265.00	264.98		
138.00	139.98	270.00	269.98		
143.00	143.98	271.00	270.98		
144.00	144.98	272.00	271.98		
145.00	145.98	275.00	274.98		
150.00	149.98	276.00	275.98		
151.00	150.98				
152.00	151.98				
158.00	155.98				
159.00	156.98				
160.00	157.98				
164.00	161.98				
165.00	162.98				
166.00	163.98				
170.00	167.98				
171.00	168.98				
172.00	169.98				
175.00	173.98				
176.00	174.98				
177.00	175.98				
181.00	179.98				
182.00	180.98				
183.00	181.98				
188.00	187.98				
189.00	188.98				
190.00	189.98				
193.00	192.98				
194.00	193.98				
195.00	194.98				
198.00	197.98				
199.00	198.98				
200.00	199.98				
203.00	202.98				
204.00	203.98				
205.00	204.98				
208.00	207.98				
209.00	208.98				
210.00	209.98				
213.00	212.98				
214.00	213.98				
215.00	214.98				
218.00	217.98				
219.00	218.98				
220.00	219.98				
223.00	222.98				
224.00	223.98				
225.00	224.98				
228.00	227.98				
229.00	228.98				
230.00	229.98				
233.00	232.98				
234.00	233.98				
235.00	234.98				
238.00	237.98				
239.00	238.98				
240.00	239.98				
243.00	242.98				
244.00	243.98				
245.00	244.98				
248.00	247.98				
249.00	248.98				
250.00	249.98				
253.00	252.98				
254.00	253.98				
255.00	254.98				
258.00	257.98				
259.00	258.98				
260.00	259.98				
263.00	262.98				
264.00	263.98				
265.00	264.98				
270.00	269.98				
271.00	270.98				
272.00	271.98				
275.00	274.98				
276.00	275.98				
277.00	276.98				
280.00	279.98				
281.00	280.98				
282.00	281.98				
285.00	284.98				
286.00	285.98				
287.00	286.98				
290.00	289.98				
291.00	290.98				
292.00	291.98				
295.00	294.98				
296.00	295.98				
297.00	296.98				
300.00	299.98				
301.00	300.98				
302.00	301.98				
305.00	304.98				
306.00	305.98				
307.00	306.98				
310.00	309.98				
311.00	310.98				
312.00	311.98				
315.00	314.98				
316.00	315.98				
317.00	316.98				
320.00	319.98				
321.00	320.97				
322.00	321.97				
325.00	324.97				
326.00	325.97				
327.00	326.97				
330.00	329.97				
331.00	330.97				
332.00	331.97				
340.00	339.97				
341.00

Density Short Spaced	gramsec	1.95	3
Density Long Spaced	gramsec	1.95	3
Caliper from DCD	inches	6	16
Gamma Ray from DCD	API	0	200
FE Resistivity Shallow	ohm metres	2	2000
FE Resistivity Deep	ohm metres	2	2000
Compensated Density	gramsec	2	3
Density Corrector	gramsec	-0.25	0.25
Vertically Turbulent Magnetic North	nT	50000	60000
Depth in Metres		190	0

Density Short Spaced	gramsec	1.95	3
Density Long Spaced	gramsec	1.95	3
Caliper from DCD	inches	6	16
Gamma Ray from DCD	API	0	200
FE Resistivity Shallow	ohm metres	2	2000
FE Resistivity Deep	ohm metres	2	2000
Compensated Density	gramsec	2	3
Density Corrector	gramsec	-0.25	0.25
Vertically Turbulent Magnetic North	nT	50000	60000
Depth in Metres		190	0

Depth Scale Date - Merged File
Filename: C:\logs\Canos\RAV09-015\RAV09-015_MWN.mgs
System Versions: Merged with 6.06.0212 Printed with 6.06.0212
Printed on 02-JUL-2009 09:12
Merged on 02-JUL-2009 09:05

COMPOSITE LOG 1:240

Depth Scale Date - Merged File
Filename: C:\logs\Canos\RAV09-015\RAV09-015_MWN.mgs
System Versions: Merged with 6.06.0212 Printed with 6.06.0212
Printed on 02-JUL-2009 09:12
Merged on 02-JUL-2009 09:05

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-015
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres		First Reading	000.00	metres
Elevation Grd Floor	metres		Depth Driller	000.00	metres
Elevation Ground Level	metres		Depth Logger	000.00	metres

Weatherford

COMPOSITE COAL LOG

WELL TEST REPORT

Operator	Hunterford
Well	100/16-08-060-08W6/00
Test Number	1
Test Type	Conventional
Test Date	2011-11-28
Test Time	08:00
Test Duration	6 hrs 0 min
Tester	Tyler Hunter
Witnessed By	Ryan Hunter
Test Company	Hunterford
Test Equipment	2
Test Method	Conventional
Test Type	Initial Test
Formation	Bluesky
Perforations	1
Gas Measurement	Not Measured
Oil Measurement	Measured
Water Measurement	Measured
Gas Flare	Not Flared
Oil Disposal	Sales
Water Disposal	Disposal Well

Comments

Comments:
Test Type:
Test Method:
Tester:
Test Company:
Test Equipment:
Gas Flare:
Gas Meter:
Oil Disposal: Sales - Sales - 40 - 40.00000 0.0000 0.0000
Water Disposal: Disposal Well
Gas Meter Number:
Gas Meter Orifice Size:
Gas Meter Differential Gauge: Not Applicable
Gas Meter Static Gauge: Not Applicable
Gas Meter Temperature: Not Applicable
Gas Meter Gravity: Not Applicable
Gas Meter Z Factor: Not Applicable
Gas Meter Flow Coefficient: Not Applicable
Gas Meter Flow Exponent: Not Applicable
Gas Meter Pressure Base: Not Applicable
Gas Meter Temperature Base: Not Applicable
Gas Meter Gravity Base: Not Applicable
Gas Meter Z Factor Base: Not Applicable
Gas Meter Pressure Units: Not Applicable
Gas Meter Temperature Units: Not Applicable
Gas Meter Gravity Units: Not Applicable
Gas Meter Z Factor Units: Not Applicable
Gas Meter Flow Coefficient Units: Not Applicable
Gas Meter Flow Exponent Units: Not Applicable
Gas Meter Pressure Base Units: Not Applicable
Gas Meter Temperature Base Units: Not Applicable
Gas Meter Gravity Base Units: Not Applicable
Gas Meter Z Factor Base Units

COMPLIANCE COAL CORP
RK09-015
UNDEFINED
BRITISH COLUMBIA
CANADA

DUAL FOCUSED ELECTRIC
Gamma Ray, CALIPER

COMPANY	COMPLIANCE COAL CORP	Log Date	2009-08-04
WELL	RK09-015	Log Time	09:00
FIELD	UNDEFINED	Run Number	ONE
PROVINCE/COUNTY	BRITISH COLUMBIA	Depth Driller	1000.00
COUNTRY/STATE	CANADA	Depth Logger	1000.00
Surface Location	Latitude: Longitude:	Bottom Log Interval	1000.00
Elevation: Kelly Bushing:	Ground Level:	Top Log Interval	0.00

Weatherford

DIAMOND DRILL CORE
DEPTH CORRECTED
DEPTH CORRECTED
DEPTH CORRECTED

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-015
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

LOC | SEC | TWP | RGE | Other Services

Licence Number

Permanent Datum GL, Elevation MA metres

Log Measured From DF, KB, GROUND LEVEL, Above Permanent Datum

Date 01-JUL-2009

Depth Driller 368.00 metres

Depth Logger 368.00 metres

Bottom Log Interval 368.00 metres

Top Log Interval 0.00 metres

Casing Driller 13.50 metres

Casing Logger 13.50 metres

Bit Size 134 mm

Type Fluid in Hole WATER

Salinity, Density

PH, Fluid Loss

Source Sample

Rm @ Measured Temp

Rmf @ Measured Temp

Rmc @ Measured Temp

Rm @ BHT

Time Since Circulation

Time Since Cement

Equipment Number

Equipment Base

Recorded By 11SKA

Witnessed By O.CALLINGHAM

Elevations: KB metres, DF, GL

BOREHOLE RECORD

Last Edited: 02-JUL-2009 09:02

Bit Size millimetres	Depth From metres	Depth To metres
106.000	0.00	134.20
105.000	134.20	311.00
101.000	311.00	368.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	105.000	13.50	0.00	

REMARKS

COORDINATES:
NORTHING:
5485450

EASTING:
364200

TOOL RUNS:
RR5,DD6,VRT

BORE WALL COND : MEDIUM - BIG WASHOUT UNDER CASING.
BORE HOLE COND : GOOD

WELL FLOWING

WELL WAS LOGGED STAND ALONE

LOST 2M OF GAMMA UNDER CASING DUE TO WASHOUT AND TOOL GETTING STUCK

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made byany of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

DENSITY.LOC 1.240
M
Bit Size
Caliper from DIA
Caliper from DIA
Compensated Density
Density Correction
Density Correction
Caliper from DIA
Bit Size
Caliper from DIA
Caliper from DIA
Compensated Density
Density Correction
Density Correction
Caliper from DIA
Bit Size
Caliper from DIA
Caliper from DIA
CZ Resistivity Image
CZ Resistivity Image
CZ Resistivity Image
CZ Resistivity Image
CZ Resistivity Image
CZ Resistivity Image
Casing shoe
Casing shoe
Density Log
Density Log
Density Log

VERTICALITY ANALYSIS

Company	COMPLIANCE COAL CORP
Well	RAV09-015
Field	UNDEFINED
Province/County	BRITISH COLUMBIA
Country/State	CANADA
Date	02-JUL-2009
Time	09:53
Operator	DOUGLAS
Rig	DRILL CORE
Weather	SUNNY
Temperature	15 C
Witnessed By	PROVIDENCIO / COMPLIANCE CORP
Location	BRITISH COLUMBIA
Comments	

BOREHOLE RECORD

Last Edited: 02-JUL-2009 09:53

Bit Size (millimetres)	Depth From (metres)	Depth To (metres)
154.00	0.00	152.4
100.000	154.20	311.00
101.000	311.00	366.00

CASING RECORD

Type	Size (millimetres)	Depth Set (metres)	Shoe Depth (metres)	Weight (kg/m)
	100.000	0.00	13.50	0.00

REMARKS

COORDINATES
NORTHING:
EASTING:

DATING
NAD 83

TOOL BUNG
WALLDEN 491

BORE WALL CONDI - MEDIUM / BIG WASHOUT UNDER CASING
BORE HOLE CONDI - GOOD

WELL FLOWING

WELL WAS LOGGED 87HRS ALONE

LAST 200 OF CAMMIN UNDER CASING DUE TO WASHOUT AND TOOL GETTING STUCK

Verticality Analysis Interpretation Notes

02-JUL-2009 09:53

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metre) and 1:40000(degrees), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metersfilled depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Although verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, the raw data is still valid and may be used for other purposes. For the analysis all of the data logged at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross section for the entire hole).

Given below a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logic\Cmmdd09\RAV09-015\054-236 Mt Ab

All Co-ordinates With Respect To True North, all depths in metres

Final Depth : 8.10, 0.08 North, 0.08 East of Origin

Date Processed : 02-JUL-2009
Data Logged : 01-JUL-2009

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR	
Log	True	Inc	Azim	North	East	Brg	Radius
12.00	12.00	0.4	61.1	0.01	0.00	49	0.02
13.00	13.00	0.4	61.1	0.01	0.01	49	0.02
14.00	14.00	0.4	61.1	0.01	0.01	49	0.02
15.00	15.00	0.4	169.4	-0.02	0.02	114	0.03
16.00	16.00	0.4	161.7	-0.02	0.04	113	0.05
17.00	17.00	0.4	161.7	-0.03	0.05	113	0.06
18.00	18.00	0.4	161.7	-0.04	0.06	113	0.07
19.00	19.00	0.4	161.7	-0.05	0.07	113	0.08
20.00	20.00	0.6	165.7	-0.06	0.07	129	0.11
21.00	21.00	0.6	165.7	-0.08	0.08	129	0.13
22.00	22.00	0.6	157.7	-0.09	0.09	135	0.15
23.00	23.00	0.9	141.9	-0.13	0.11	145	0.19
24.00	24.00	0.9	141.9	-0.15	0.13	145	0.22
25.00	25.00	0.9	177.1	-0.20	0.14	145	0.24
26.00	26.00	0.9	167.8	-0.25	0.16	145	0.27
27.00	27.00	0.9	167.8	-0.29	0.18	145	0.31
28.00	28.00	0.9	157.7	-0.33	0.20	145	0.33
42.00	42.00	1.2	175.9	-0.50	0.26	146	0.56
43.00	43.00	1.2	175.9	-0.52	0.27	146	0.58
44.00	44.00	1.2	182.4	-0.54	0.28	147	0.60
45.00	45.00	1.2	182.4	-0.56	0.28	147	0.62
50.00	50.00	0.9	142.2	-0.62	0.27	146	0.49
51.00	51.00	0.9	142.2	-0.63	0.28	146	0.50
52.00	52.00	0.9	142.2	-0.64	0.29	146	0.51
53.00	53.00	0.9	161.9	-0.67	0.31	147	0.56
54.00	54.00	0.9	161.9	-0.69	0.32	147	0.58
55.00	55.00	0.9	161.9	-0.71	0.33	147	0.60
63.00	61.99	1.0	189.6	-0.93	0.34	149	0.95
64.00	62.99	1.0	189.6	-0.95	0.34	149	0.97
65.00	63.99	1.0	189.6	-0.97	0.34	149	0.99
66.00	64.99	0.9	151.1	-0.63	0.37	150	0.73
67.00	65.99	0.9	151.1	-0.65	0.37	150	0.75
68.00	66.99	0.9	151.1	-0.67	0.38	150	0.77
74.00	72.99	0.6	153.1	-0.76	0.41	149	0.82
75.00	73.99	0.6	153.1	-0.77	0.42	149	0.83
76.00	74.99	0.6	153.1	-0.78	0.42	149	0.84
77.00	75.99	0.6	148.6	-0.77	0.46	149	0.90
78.00	76.99	0.6	148.6	-0.77	0.46	149	0.90
79.00	77.99	0.6	148.6	-0.78	0.47	149	0.91
84.00	82.99	0.9	141.0	-0.83	0.53	149	0.99
85.00	83.99	0.9	141.0	-0.85	0.54	149	1.01
86.00	84.99	0.9	141.0	-0.86	0.55	149	1.02
87.00	85.99	1.1	152.2	-0.90	0.53	149	1.21
88.00	86.99	1.1	152.2	-0.92	0.54	149	1.23
89.00	87.99	1.1	152.2	-0.94	0.55	149	1.25
90.00	88.99	0.9	142.6	-0.92	0.58	149	1.09
91.00	89.99	0.9	142.6	-0.93	0.59	149	1.10
92.00	90.99	0.9	142.6	-0.94	0.60	149	1.12
105.00	99.99	0.5	185.9	-0.99	0.62	148	1.17
106.00	100.99	0.5	185.9	-1.00	0.62	148	1.18
107.00	101.99	0.5	185.9	-1.01	0.62	148	1.19
108.00	105.99	0.6	186.3	-1.08	0.65	148	1.25
109.00	106.99	0.6	186.3	-1.09	0.65	148	1.26
110.00	107.99	0.6	186.3	-1.10	0.65	148	1.27
111.00	111.98	0.9	135.6	-1.12	0.75	148	1.32
112.00	112.98	0.9	135.6	-1.13	0.76	148	1.34
113.00	113.98	0.9	135.6	-1.14	0.77	148	1.36
119.00	117.98	1.2	153.7	-1.19	0.74	148	1.40
120.00	118.98	1.2	153.7	-1.20	0.75	148	1.41
121.00	119.98	1.2	153.7	-1.21	0.76	148	1.42
122.00	120.98	1.3	149.6	-1.21	0.81	147	1.50
123.00	121.98	1.3	149.6	-1.22	0.82	147	1.51
124.00	122.98	1.3	149.6	-1.23	0.83	147	1.52
133.00	131.98	1.1	122.6	-1.32	0.97	147	1.64
134.00	132.98	1.1	122.6	-1.33	0.98	147	1.65
135.00	133.98	1.1	122.6	-1.34	0.99	147	1.66
136.00	137.98	0.9	146.0	-1.38	0.92	146	1.66
137.00	138.98	0.9	146.0	-1.39	0.92	146	1.67
138.00	139.98	0.9	146.0	-1.39	0.93	146	1.68
143.00	143.98	0.9	186.2	-1.44	0.97	146	1.74
144.00	144.98	0.9	186.2	-1.45	0.97	146	1.75
145.00	145.98	0.9	186.2	-1.46	0.97	146	1.76
150.00	149.98	0.6	167.6	-1.51	1.02	146	1.82
151.00	150.98	0.6	167.6	-1.52	1.02	146	1.83
152.00	151.98	0.6	167.6	-1.52	1.02	146	1.83
158.00	155.98	0.9	156.5	-1.58	1.06	146	1.90
159.00	156.98	0.9	156.5	-1.59	1.07	146	1.91
160.00	157.98	0.9	156.5	-1.60	1.08	146	1.92
164.00	161.98	0.9	157.1	-1.64	1.11	146	1.98
165.00	162.98	0.9	157.1	-1.65	1.12	146	2.00
166.00	163.98	0.9	157.1	-1.66	1.12	146	2.00
170.00	167.98	1.1	125.5	-1.69	1.22	146	2.08
171.00	168.98	1.1	125.5	-1.70	1.23	146	2.09
172.00	169.98	1.1	125.5	-1.70	1.24	146	2.10
175.00	173.98	1.1	125.5	-1.73	1.25	146	2.14
176.00	174.98	1.1	125.5	-1.74	1.26	146	2.15
177.00	175.98	1.1	125.5	-1.75	1.26	146	2.16
181.00	179.98	0.9	152.1	-1.84	1.29	146	2.24
182.00	180.98	0.9	152.1	-1.85	1.30	146	2.25
183.00	181.98	0.9	152.1	-1.86	1.31	146	2.26
188.00	187.98	0.9	155.7	-1.90	1.34	145	2.32
189.00	188.98	0.9	155.7	-1.91	1.34	145	2.33
190.00	189.98	0.9	155.7	-1.92	1.35	145	2.34
193.00	192.98	0.6	168.1	-1.96	1.38	145	2.40
194.00	193.98	0.6	168.1	-1.97	1.38	145	2.41
195.00	194.98	0.6	168.1	-1.97	1.38	145	2.41
198.00	197.98	0.6	172.8	-2.00	1.39	145	2.45
199.00	198.98	0.6	172.8	-2.01	1.39	145	2.46
200.00	199.98	0.6	172.8	-2.01	1.39	145	2.46
203.00	202.98	0.9	137.1	-2.04	1.44	145	2.52
204.00	203.98	0.9	137.1	-2.05	1.45	145	2.53
205.00	204.98	0.9	137.1	-2.06	1.46	145	2.54
208.00	207.98	0.6	113.3	-2.10	1.55	146	2.58
209.00	208.98	0.6	113.3	-2.11	1.56	146	2.59
210.00	209.98	0.6	113.3	-2.11	1.56	146	2.60
213.00	212.98	0.6	148.4	-2.16	1.55	144	2.65
214.00	213.98	0.6	148.4	-2.16	1.55	144	2.66
215.00	214.98	0.6	148.4	-2.17	1.55	144	2.66
218.00	217.98	0.9	153.9	-2.21	1.60	144	2.73
219.00	218.98	0.9	153.9	-2.22	1.61	144	2.74
220.00	219.98	0.9	153.9	-2.23	1.61	144	2.75
223.00	222.98	0.9	157.7	-2.26	1.65	144	2.81
224.00	223.98	0.9	157.7	-2.27	1.65	144	2.82
225.00	224.98	0.9	157.7	-2.28	1.65	144	2.83
228.00	227.98	0.6	153.0	-2.31	1.69	144	2.88
229.00	228.98	0.6	153.0	-2.31	1.69	144	2.89
230.00	229.98	0.6	153.0	-2.31	1.70	144	2.89
233.00	232.98	0.6	145.5	-2.35	1.73	144	2.94
234.00	233.98	0.6	145.5	-2.35	1.74	144	2.95
235.00	234.98	0.6	145.5	-2.36	1.74	144	2.96
238.00	237.98	0.6	142.0	-2.39	1.77	144	3.01
239.00	238.98	0.6	142.0	-2.40	1.78	144	3.02
240.00	239.98	0.6	142.0	-2.40	1.79	144	3.03
243.00	242.98	0.6	141.1	-2.43	1.81	143	3.08
244.00	243.98	0.6	141.1	-2.44	1.82	143	3.09
245.00	244.98	0.6	141.1	-2.45	1.83	143	3.10
248.00	247.98	0.6	141.1	-2.48	1.85	143	3.14
249.00	248.98	0.6	141.1	-2.49	1.86	143	3.15
250.00	249.98	0.6	141.1	-2.50	1.87	143	3.16
253.00	252.98	0.6	149.1	-2.51	1.88	143	3.19
254.00	253.98	0.6	149.1	-2.52	1.88	143	3.20
255.00	254.98	0.6	149.1	-2.52	1.89	143	3.21
258.00	257.98	0.6	141.1	-2.57	1.91	143	3.25
259.00	258.98	0.6	141.1	-2.58	1.92	143	3.26
260.00	259.98	0.6	141.1	-2.59	1.93	143	3.27
263.00	262.98	0.4	129.3	-2.62	1.95	143	3.31
264.00	263.98	0.4	129.3	-2.62	1.95	143	3.32
265.00	264.98	0.4	129.3	-2.62	1.95	143	3.32
270.00	269.98	0.6	152.6	-2.66	1.99	143	3.38
271.00	270.98	0.6	152.6	-2.67	1.99	143	3.39
272.00	271.98	0.6	152.6	-2.67	1.99	143	3.39
275.00	274.98	0.6	134.9	-2.71	2.02	143	3.43
276.00	275.98	0.6	134.9	-2.72	2.03	143	3.44
277.00	276.98	0.6	134.9	-2.73	2.04	143	3.45
280.00	279.98	0.6	167.7	-2.76	2.05	143	3.50
281.00	280.98	0.6	167.7	-2.77	2.05	143	3.50
282.00	281.98	0.6	167.7	-2.77	2.05	143	3.50
285.00	284.98	0.6	152.6	-2.81	2.08	143	3.56
286.00	285.98	0.6	152.6	-2.82	2.09	143	3.57
287.00	286.98	0.6	152.6	-2.82	2.09	143	3.58
290.00	289.98	0.6	136.8	-2.86	2.12	143	3.62
291.00	290.98	0.6	136.8	-2.86	2.13	143	3.63
292.00	291.98	0.6	136.8	-2.87	2.13	143	3.64
295.00	294.98	0.6	167.7	-2.91	2.14	143	3.70
296.00	295.98	0.6	167.7	-2.91	2.14	143	3.70
297.00	296.98	0.6	167.7	-2.92	2.14	143	3.71
300.00	299.98	0.6	148.2	-2.95	2.18	143	3.76
301.00	300.98	0.6	148.2	-2.96	2.19	143	3.77
302.00	301.98	0.6	148.2	-2.96	2.19	143	3.78
305.00	304.98	0.6	148.2	-2.99	2.21	143	3.82
306.00	305.98	0.6	148.2	-3.00	2.22	143	3.83
307.00	306.98	0.6	148.2	-3.01	2.22	143	3.84
310.00	309.98	0.6	151.9	-3.04	2.24	143	3.88
311.00	310.98	0.6	151.9	-3.05	2.25	143	3.89
312.00	311.98	0.6	151.9	-3.05	2.25	143	3.90
315.00	314.98	0.6	163.1	-3.08	2.26	143	3.94
316.00	315.98	0.6	163.1	-3.14	2.28	144	3.99
317.00	316.98	0.6	163.1	-3.14	2.28	144	3.99
320.00	319.98	0.9	189.3	-3.24	2.32	145	4.09
321.00	320.97	0.9	189.3	-3.24	2.32	145	4.09
322.00	321.97	0.9	189.3	-3.24	2.32	145	4.09
325.00	324.97	0.9	189.3	-3.34	2.32	145	4.09
326.00	325.97	0.9	189.3	-3.34	2.32	145	4.09
327.00	326.97	0.9	189.3	-3.34	2.32	145	4.12
330.00	329.97	0.9	173.4	-3.43	2.35	146	4.15
331.00	330.97	0.9	173.4	-3.44	2.35	146	4.16
332.00	331.97	0.9	173.4	-3.44	2.35	146	4.17
340.00	339.97	0.9	178.5	-3.54	2.34	147	4.24
341.00	340.97	0.9	178.5	-3.54	2.34	147	4.25
342.00	341.97	0.9	178.5	-3.54	2.34	147	4.25
345.00	344.97	0.9	280.2	-3.56	2.34	146	4.30
346.00	345.97	0.9	280.2	-3.56	2.34	146	4.30
347.00	346.97	0.9	280.2	-3.56	2.34	146	4.30
350.00	349.97	0.9	142.6	-3.64	2.29	145	4.34
351.00	350.97	0.9	142.6	-3.65	2.29	145	4.35
352.00	351.97	0.9	142.6	-3.66	2.29	145	4.36
354.00	353.97	0.9	142.6	-3.76	2.35	145	4.45
355.00	354.97	0.9	142.6	-3.77	2.36	145	4.46
356.00	355.97	0.9	142.6	-3.78	2.36	145	4.47
359.00	358.97	1.2	201.4	-3.89	2.35	149	4.54
360.00	359.97	1.2	201.4	-3.90	2.35	149	4.55
361.00	360.96	1.2	201.4	-3.91	2.35	149	4.56
365.00	365.96	0.9	188.5	-4.00	2.35	150	4.64

Cross Section

All Figures are Log Depths in metres

Target Origin Depth 8.10
Last Plotted Depth 365.00
Vertical Section Scale in multiples of 50
Final Depth Marker at 50
Last Depth Marker at 350

Plot With Respect to True North
Scale 1:100
Declination 18.1 deg East

Final Borehole Position
The last plotted depth is at
4.00 metres South
0.40 metres East
or 4.04 metres from the origin
150 deg from True North

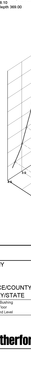
Vertical Sections

North-South Section

(True Depth vs Displacement)
Vertical Scale 1:500
Horizontal Scale 1:20

Markers annotated as above

East-West Section



Depth Correction Analysis

Log Depth

Vertical Scale 1:5000
Horizontal Scale 1:1

Depths Log	True	Depths Log	True	Depths Log	True
12.00	12.00	144.00	143.98	276.00	271.98
13.00	13.00	145.00	144.98	277.00	272.98
14.00	14.00	150.00	149.98	278.00	273.98
15.00	15.00	151.00	150.98	279.00	274.98
16.00	16.00	152.00	151.98	280.00	275.97
17.00	17.00	158.00	155.98	281.00	276.97
18.00	18.00	159.00	156.98	282.00	277.97
19.00	19.00	160.00	157.98	285.00	280.97
20.00	20.00	164.00	161.98	286.00	281.97
21.00	21.00	165.00	162.98	287.00	282.97
22.00	22.00	166.00	163.98	290.00	285.97
23.00	23.00	170.00	167.98	291.00	286.97
24.00	24.00	171.00	168.98	292.00	287.97
25.00	25.00	172.00	169.98	295.00	290.97
26.00	26.00	175.00	173.98	296.00	291.97
27.00	27.00	176.00	174.98	297.00	292.97
28.00	28.00	177.00	175.98	300.00	295.97
42.00	42.00	181.00	179.98	301.00	296.97
43.00	43.00	182.00	180.98	302.00	297.97
44.00	44.00	183.00	181.98	305.00	300.97
45.00	45.00	188.00	187.98	306.00	301.97
50.00	50.00	189.00	188.98	307.00	302.97
51.00	51.00	190.00	189.98	310.00	305.97
52.00	52.00	193.00	192.98	311.00	306.97
53.00	53.00	194.00	193.98	312.00	307.97
54.00	54.00	195.00	194.98	315.00	310.97
55.00	55.00	198.00	197.98	316.00	311.97
63.00	61.99	199.00	198.98	317.00	312.97
64.00	62.99	200.00	199.98	320.00	315.97
65.00	63.99	203.00	202.98	321.00	316.97
66.00	64.99	204.00	203.98	322.00	317.97
67.00	65.99	205.00	204.98	325.00	320.97
68.00	66.99	208.00	207.98	326.00	321.97
74.00	72.99	209.00	208.98	327.00	322.97
75.00	73.99	210.00	209.98	340.00	335.97
76.00	74.99	213.00	212.98	341.00	336.97
77.00	75.99	214.00	213.98	342.00	337.97
78.00	76.99	215.00	214.98	345.00	340.97
79.00	77.99	218.00	217.98	346.00	341.97
84.00	82.99	219.00	218.98	347.00	342.97
85.00	83.99	220.00	219.98	350.00	345.97
86.00	84.99	223.00	222.98	351.00	346.97
87.00	85.99	224.00	223.98	352.00	347.97
88.00	86.99	225.00	224.98	355.00	350.97
89.00	87.99	228.00	227.98	356.00	351.97
90.00	88.99	229.00	228.98	357.00	352.97
91.00	89.99	230.00	229.98	360.00	355.97
92.00	90.99	233.00	232.98	361.00	356.97
105.00	99.99	234.00	233.98	362.00	357.97
106.00	100.99	235.00	234.98	365.00	360.96
107.00	101.99	238.00	237.98		
108.00	105.99	239.00	238.98		
109.00	106.99	240.00	239.98		
110.00	107.99	243.00	242.98		
111.00	111.98	244.00	243.98		
112.00	112.98	245.00	244.98		
113.00	113.98	248.00	247.98		
119.00	117.98	249.00	248.98		
120.00	118.98	250.00	249.98		
121.00	119.98	253.00	252.98		
122.00	120.98	254.00	253.98		
123.00	121.98	255.00	254.98		
124.00	122.98	258.00	257.98		
133.00	131.98	259.00	258.98		
134.00	132.98	260.00	259.98		
135.00	133.98	263.00	262.98		
136.00	137.98	264.00	263.98		
137.00	138.98	265.00	264.98		
138.00	139.98	270.00	269.98		
143.00	143.98	271.00	270.98		
144.00	144.98	272.00	271.98		
145.00	145.98	275.00	274.98		
150.00	149.98	276.00	275.98		
151.00	150.98				
152.00	151.98				
158.00	155.98				
159.00	156.98				
160.00	157.98				
164.00	161.98				
165.00	162.98				
166.00	163.98				
170.00	167.98				
171.00	168.98				
172.00	169.98				
175.00	173.98				
176.00	174.98				
177.00	175.98				
181.00	179.98				
182.00	180.98				
183.00	181.98				
188.00	187.98				
189.00	188.98				
190.00	189.98				
193.00	192.98				
194.00	193.98				
195.00	194.98				
198.00	197.98				
199.00	198.98				
200.00	199.98				
203.00	202.98				
204.00	203.98				
205.00	204.98				
208.00	207.98				
209.00	208.98				
210.00	209.98				
213.00	212.98				
214.00	213.98				
215.00	214.98				
218.00	217.98				
219.00	218.98				
220.00	219.98				
223.00	222.98				
224.00	223.98				
225.00	224.98				
228.00	227.98				
229.00	228.98				
230.00	229.98				
233.00	232.98				
234.00	233.98				
235.00	234.98				
238.00	237.98				
239.00	238.98				
240.00	239.98				
243.00	242.98				
244.00	243.98				
245.00	244.98				
248.00	247.98				
249.00	248.98				
250.00	249.98				
253.00	252.98				
254.00	253.98				
255.00	254.98				
258.00	257.98				
259.00	258.98				
260.00	259.98				
263.00	262.98				
264.00	263.98				
265.00	264.98				
270.00	269.98				
271.00	270.98				
272.00	271.98				
275.00	274.98				
276.00	275.98				
277.00	276.98				
280.00	279.98				
281.00	280.98				
282.00	281.98				
285.00	284.98				
286.00	285.98				
287.00	286.98				
290.00	289.98				
291.00	290.98				
292.00	291.98				
295.00	294.98				
296.00	295.98				
297.00	296.98				
300.00	299.98				
301.00	300.98				
302.00	301.98				
305.00	304.98				
306.00	305.98				
307.00	306.98				
310.00	309.98				
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315.00	314.98				
316.00	315.98				
317.00	316.98				
320.00	319.98				
321.00	320.97				
322.00	321.97				
325.00	324.97				
326.00	325.97				
327.00	326.97				
330.00	329.97				
331.00	330.97				
332.00	331.97				
340.00	339.97				
341.00

COMPOSITE COAL LOG

COMPANY COMPLIANCE COAL CORP
WELL RAVIN-016
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Elevation Kelly Bushing	metres	First Reading	400.70 metres
Elevation Drill Floor	metres	Depth Driller	400.70 metres
Elevation Ground Level	metres	Depth Logger	400.70 metres

Weatherford

COMPOSITE COAL LOG

BOREHOLE RECORD

Bit Size millimetres	Depth From metres	Depth To metres	Last Edited: 10-JUL-2008 10:13 Depth To (KB)
152.400	0.00	400.70	400.70
152.000	400.70	400.70	

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/m
	139.700	0.00	0.00	25.30

REMARKS

COORDINATES
NORTHING
WRSS2

SAFETIES
NONE

TOOL RUNS
MAIN - DSN, NGS, VSA, DIP, SONIC

BORE WALL CONDI - POOR
BORE HOLE CONDI - POOR

FLOWING WELL

WELL WAS LOGGED STAND ALONE

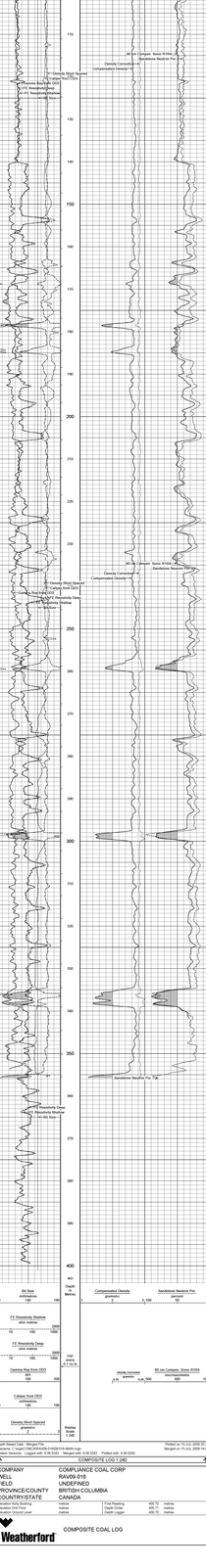
OTHER TOOLS (EXCEPT FD) RAN FROM 399.0 DUE TO HOLE CONDITIONS
DENS STARTED AT 400.0 DUE TO HOLE CONDITIONS
SPINETTER WAS STARTED AT 400.0 DUE TO HOLE CONDITIONS

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretation, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

COMPOSITE LOG 1:240

Depth Based Data - Merged File
Filename: C:\logs\COMPUTER\COMPOSITE\RAVIN-016.mpx
Generic Versions - Logged with: 9.0b DJ20 - Merged with: 9.0b DJ20 - Plotted with: 3.0b DJ20

Plotted on: 10-JUL-2008 20:03
Merged on: 10-JUL-2008 19:59


Depth Based Data
Depth Scale 1:240
Casing Shoe
Density Calibration
Compensated Density
Sandstone Neutron Por
Density Short Spaced
Density Long Spaced
Density Caliper
Gamma Ray from DDS
Caliper from DDS
Spectral Density Dual Spaced
Spectral Density Long Spaced
Spectral Gamma Ray
Spectral Potassium
Spectral Thorium
Spectral Uranium
Spectral Density Caliper
Spectral Density Dual Spaced Porosity
Spectral Density Long Spaced Porosity
Spectral Density Dual Spaced Porosity Shallow
Spectral Density Long Spaced Porosity Shallow
Spectral Density Dual Spaced Porosity Deep
Spectral Density Long Spaced Porosity Deep
Spectral Density Dual Spaced Porosity Flushed
Spectral Density Long Spaced Porosity Flushed
Spectral Density Dual Spaced Porosity Corrected
Spectral Density Long Spaced Porosity Corrected
Spectral Density Dual Spaced Porosity Flushed Corrected
Spectral Density Long Spaced Porosity Flushed Corrected
Spectral Density Dual Spaced Porosity Shallow Corrected
Spectral Density Long Spaced Porosity Shallow Corrected
Spectral Density Dual Spaced Porosity Deep Corrected
Spectral Density Long Spaced Porosity Deep

Weatherford

Weatherford Canada Partnership

Daily Field Report

Service Order 1000000

Date: 2-Feb-2015

Page 1 of 1

Well Information			
Operator:	Canadian Natural Resources Limited	Date Spud:	2-Jan-2015
Contractor:	Precision Drilling	Date Rig Release:	
Rig Name:	174	Date Rig Move:	
Well Name:	Kiwi 1-29-85-20	Date Frac:	
Location:	100/01-29-085-20-W6M	Date Completion:	
Licence:	0479	Date Perforation:	
Field:	Kiwi	Date Production:	
Province:	Alberta	Date Suspension:	
Country:	Canada	Date Abandonment:	
Surface Lat:	56.2333	Surface Long:	-118.8333
Bottom Hole Lat:		Bottom Hole Long:	
Elevation:		Total Depth:	
Perforation Interval:		Production Hole:	
Last Casing Size:		Last Casing Depth:	
Last Casing Type:		Last Casing Date:	
Last Casing Comment:			

Remarks

Kiwi
Kiwi 1-29-85-20
Kiwi 1-29-85-20
Kiwi 1-29-85-20

DIPMETER ANALYSIS

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN-016
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation (m)	1000.00
Elevation Kelly Bushing (m)	1000.00
Elevation Ground Level (m)	1000.00
Elevation Drill Floor (m)	
Elevation Water Depth (m)	
Elevation Water Mud Line (m)	
Date Logged	15-JUL-2008
Date Run	15-JUL-2008
Date Processed	15-JUL-2008
Date Plotted	15-JUL-2008
Date Edited	15-JUL-2008
Date Reprocessed	15-JUL-2008
Date Reprocessed	15-JUL-2008
Date Reprocessed

DUAL FOCUSED ELECTRIC GAMMA RAY - CALIPER

COMPANY	COAL CREEK COAL CORP
WELL	RIVER-01
FIELD	UNDEFINED
BOROUGH/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Service field facility	Calgary
Service field engineer	Kelly Kaiser
Date	2011-Jun-15
Time	15:00
Weather	Clear
Road condition	Good
Hole fluid	Water
Fluid level	0 m
Fluid density	1.0 g/cc
Fluid viscosity	1 cp
Max temp	25 °C
Max deviation	0 deg
Logging company	Weatherford
Logging unit number	1
Logging engineer	Kelly Kaiser
Logging witness	Kelly Kaiser
Logging company address	Calgary, Alberta
Logging company phone	403-250-9200

BOREHOLE RECORD			
Bit number	1	Last Drlrun TD	2011-06-15
Bit size	152.4 mm	Drlrun TD	m
Bit type	PDC	Drlrun time	hrs
Bit condition	1-1-CT		

CASING RECORD				
Type	Size (outside diameter)	Depth From (drillers)	Depth To (drillers)	Weight (nominal)
Casing	114.3 mm	0 m	30 m	kg/m

REMARKS

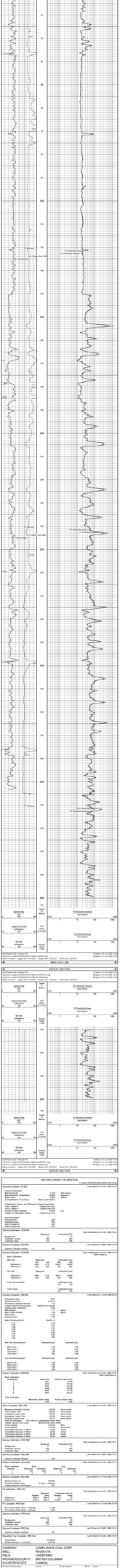
CLOSE/MODE:
CLOSE
MODE
SHUTDOWN
SHUT
Log Suite:
DFE, GAM, GR2, RS, SP, CAL
Log Interval:
Start = 0.000, Stop = 0.000
Log Direction:
DOWN WELL
Tool Configuration:
DFE, GAM, GR2, RS, SP, CALIPER
DFE: DUAL FOCUSED ELECTRIC RESISTIVITY SELF CONTROL
GAM: GAMMA RAY, GR2: GAMMA RAY, CALIPER
DFE: DUAL FOCUSED ELECTRIC RESISTIVITY SELF CONTROL

All measurements are approximate based on information from the operator or other measurements and are reported as received. Weatherford assumes no liability for the accuracy of the information provided. Weatherford does not warrant the accuracy of the information provided and does not guarantee the results of any interpretation or other work product based on information provided by the operator. Weatherford does not warrant the suitability of its equipment for any purpose or application.

MAIN LOG 1 (1:200)

Well Name: CCC - RIVER-01
Service: Calgary | Client: COAL CREEK COAL CORP
Date: 2011-Jun-15 | Time: 15:00 | Run Number: 1 | Log Number: 1 | Depth Reference: KB 0.000 - Ground Level: 0.000 - Elevation: 0.000 - Polar Left: 0.000 - Polar Right: 0.000

Printed on 15-Jun-2011 08:44
Merged on 15-Jun-2011 08:44
Page 1 of 1


Calibrated Caliper (mm)
Calibrated Caliper (mm)
Gamma Ray (API)
Gamma Ray (API)
Bit Size
152.400 mm
Gamma Ray (API)
Gamma Ray (API)
Gamma Ray (API)

1	DSN	1	1	1	1	1	1	1	1	1	1	1	1
2	SSN	2	2	2	2	2	2	2	2	2	2	2	2
3	LSN	3	3	3	3	3	3	3	3	3	3	3	3
4	CNTC	4	4	4	4	4	4	4	4	4	4	4	4
5	SDEN	5	5	5	5	5	5	5	5	5	5	5	5
6	LDEN	6	6	6	6	6	6	6	6	6	6	6	6
7	CALI	7	7	7	7	7	7	7	7	7	7	7	7
8	DRHO	8	8	8	8	8	8	8	8	8	8	8	8
9	PEF	9	9	9	9	9	9	9	9	9	9	9	9
10	DTC	10	10	10	10	10	10	10	10	10	10	10	10
11	DTS	11	11	11	11	11	11	11	11	11	11	11	11
12	SP	12	12	12	12	12	12	12	12	12	12	12	12
13	GR	13	13	13	13	13	13	13	13	13	13	13	13
14	HTEN	14	14	14	14	14	14	14	14	14	14	14	14
15	MTEM	15	15	15	15	15	15	15	15	15	15	15	15
16		16	16	16	16	16	16	16	16	16	16	16	16
17		17	17	17	17	17	17	17	17	17	17	17	17
18		18	18	18	18	18	18	18	18	18	18	18	18
19		19	19	19	19	19	19	19	19	19	19	19	19
20		20	20	20	20	20	20	20	20	20	20	20	20

Service Company: Schlumberger Canada Ltd.
Service Order: 1100-0000-0000
Date: 15-JUL-2009
Operator: Jim Cook
Truck Number: 2
Unit Number: 1
Logging Engineer: Jim Cook
Witnessed by: Jim Cook

Run	Date	Time	Depth Driller	Depth Logger	Bottom Logged Interval	Top Logged Interval	Casing Driller	Casing Logger	Bit Size	Type Fluid in Hole	Density	Viscosity	Max Rec Temp	Equipment/Location
1	15-JUL-2009	21:00	0.00	0.00										

COMPANY
COMPLIANCE COAL CORP
WELL
RAV09-016
FIELD
UNDEFINED
PROVINCE/COUNTY
BRITISH COLUMBIA
COUNTRY/STATE
CANADA

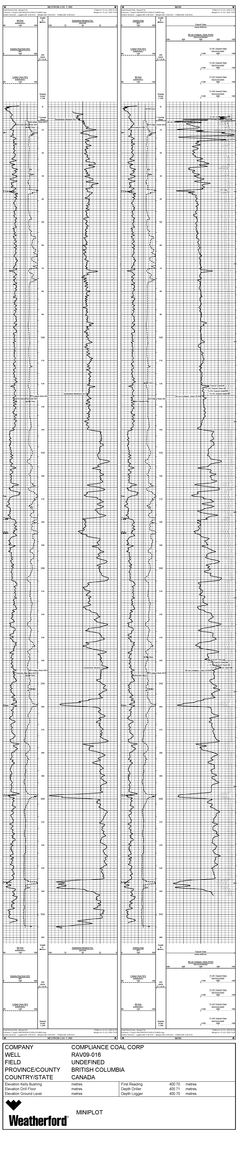
MINPLOT

BOREHOLE RECORD			Last Edited: 15-JUL-2009 19:13
Bit Size millimeters	Depth From meters	Depth To meters	
155.000	0.00	432.70	
155.000	0.00	432.70	

CASING RECORD					
Type	Size millimeters	Depth From meters	Shoe Depth meters	Weight kg/meter	
	140.000	0.00	0.00	0.00	

REMARKS
COORDINATES NAD27NAD 5499500 DATUM BRGDS TOOL RUNS NRV, DDK, NGL VSK DIP, SONIC BORE HOLE COND: POOR BORE HOLE COND: POOR FLOWING WELL WELL WAS LOGGED STAND ALONE OTHER TOOLS (EXCEPT FD MAN FROM 356.0)DUE TO HOLE CONDITIONS SONIC STARTED AT 345.9 DUE TO HOLE CONDITIONS DPMETER WAS STARTED AT 355.5 DUE TO HOLE CONDITIONS

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.



COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-016
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Grd Floor	metres
Elevation Permanent Level	metres
Elevation Grd Level	metres
First Reading	432.70 metres
Depth Driller	432.70 metres
Depth Logger	432.70 metres

Weatherford

MINPLOT

Halliburton

Sperry-Sun Drilling Services

Well Name: Hoover Federal 1-15

Field: Wildcat

County: Lincoln

State: New Mexico

Date: 10/2/2008

Time: 10:00:00

Depth: 1,000 - 10,000

Depth Type: Measured Depth

Depth Scale: 1:200

Vertical Section Azimuth: 0.000

Vertical Section Origin: 0.000 N, 0.000 E

Calculation Method: Minimum Curvature

Magnetic Model: BGGM 2008

Magnetic Declination: 8.800°

Dip: 60.000°

Field Strength: 50,000 nT

Grid Convergence: 0.000°

Grid Convergence Method: Not Applied

Vertical Section Plane: 0.000°

Vertical Section Plane Description: Grid North

Vertical Section Origin: 0.000 N, 0.000 E

Vertical Section Scale: 1:200

Vertical Section Depth Type: Measured Depth

Vertical Section Depth Scale: 1:200

**Vertical Section Depth Range: 1,000 - 10,000

WOW COMPENSATED SONIC

Well Name: Weyerhaeuser	Printed on 10-02-2008 09:00
Section: 1 Township: 007	Page 1
Range: 14 Meridian: W6	of 1
Licence:	
Field:	
Province: BRITISH COLUMBIA	

BOREHOLE RECORD — Last Edited 10-02-2008 09:00

Number	Date	Size
1	10-02-2008	200.0 mm

CASING RECORD

Type	Size	Depth From	Depth To	Wall Thickness	Weight
		m KB	m KB	mm	kg/m
Casing	200.0 mm	0.0	10.0	10.0	0.0

REMARKS

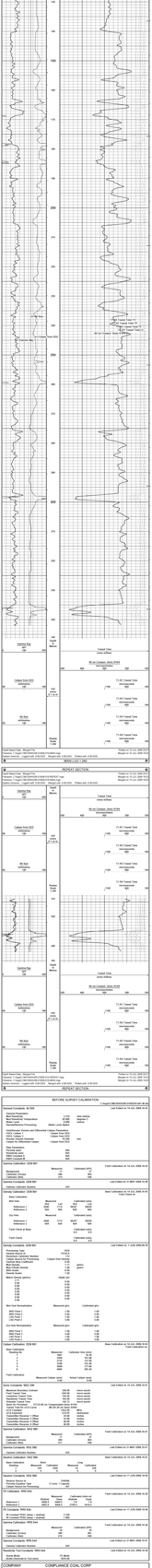
CLOSEST TOWN:
CLOSEST LSD:
DATUM:
DATE:
TOTAL DEPTH:
DRY, GAS, OIL, WIL, WI, SP, STAT:
WATER DEPTH:
WATER DEPTH TYPE: FROM
WATER DEPTH TYPE: FROM
FLOWING WELL:
DRILLING METHOD: STAND ALONE

FROM CYCLE DEPTH TO BEGIN FROM BASELINE TO TRUE CONDITION:
DATE: 10-02-2008 TIME: 09:00 TIMEZONE: PST
DATE: 10-02-2008 TIME: 09:00 TIMEZONE: PST

All measurements are referenced to elevations from ground level or other measurement point as well, and are not corrected for the effects of temperature, pressure, or other environmental factors. Depth measurements are referenced to the Kelly Bushing (KB) or Drill Floor Elevation (DF) unless otherwise specified. Measurements are made to the nearest 0.1 mm and are rounded to the nearest 0.1 mm for display purposes.

WAVEFORM LOG

Well Name: Weyerhaeuser — Printed on 10-02-2008 09:00
Section: 1 Township: 007 Range: 14 Meridian: W6 — Page 2 of 3
Licence: 1 Length: 200.0 Field: Province: BRITISH COLUMBIA — Weight: 0.0 kg/m
Source: Weyerhaeuser Date: 10-02-2008 Time: 09:00 Timezone: PST — Date: 10-02-2008


Casing Flag
Caliper Scale 200.0 mm
Gamma Ray
Delta-T Scale 200.0 mm
Delta-T Scale 200.0 mm
Transit Time
Transit Time
Transit Time

VERTICALITY ANALYSIS

COMPLIANCE COAL CORP
RAVEN 016
UNDEFINED
BRITISH COLUMBIA
CANADA

Date Processed: 15-JUL-2009	Date Logged: 15-JUL-2009	Logged By:	Processed By:
Depth Type: Logged	Depth Type: Logged		
Log Type: SONIC	Log Type: SONIC		
Log Run: 1	Log Run: 1		
Log Date: 15-JUL-2009	Log Date: 15-JUL-2009		
Log Time: 12:00	Log Time: 12:00		
Log Speed: 3.00	Log Speed: 3.00		
Log Interval: 0.02	Log Interval: 0.02		
Log Direction: DOWN	Log Direction: DOWN		
Log Method: PULSE ECHO	Log Method: PULSE ECHO		
Log Source: Vertical Scan	Log Source: Vertical Scan		
Log Tool: 1	Log Tool: 1		
Log Tool Type: SONIC	Log Tool Type: SONIC		
Log Tool Serial: 1	Log Tool Serial: 1		
Log Tool Version: 1.00	Log Tool Version: 1.00		
Log Tool Length: 0.00	Log Tool Length: 0.00		
Log Tool Diameter: 0.00	Log Tool Diameter: 0.00		
Log Tool Weight: 0.00	Log Tool Weight: 0.00		
Log Tool Speed: 0.00	Log Tool Speed: 0.00		
Log Tool Temperature: 0.00	Log Tool Temperature: 0.00		
Log Tool Pressure: 0.00	Log Tool Pressure: 0.00		
Log Tool Voltage: 0.00	Log Tool Voltage: 0.00		
Log Tool Current: 0.00	Log Tool Current: 0.00		
Log Tool Status: 0	Log Tool Status: 0		
Log Tool Error: 0	Log Tool Error: 0		
Log Tool Warning: 0	Log Tool Warning: 0		
Log Tool Comment:	Log Tool Comment:		
Log Tool Calibration:	Log Tool Calibration:		
Log Tool Calibration Date:	Log Tool Calibration Date:		
Log Tool Calibration Time:	Log Tool Calibration Time:		
Log Tool Calibration Method:	Log Tool Calibration Method:		
Log Tool Calibration Source:	Log Tool Calibration Source:		
Log Tool Calibration Tool:	Log Tool Calibration Tool:		
Log Tool Calibration Tool Serial:	Log Tool Calibration Tool Serial:		
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Log Tool Calibration Tool Temperature:	Log Tool Calibration Tool Temperature:		
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Log Tool Calibration Tool Warning:	Log Tool Calibration Tool Warning:		
Log Tool Calibration Tool Comment:	Log Tool Calibration Tool Comment:		
Log Tool Calibration Tool Calibration:	Log Tool Calibration Tool Calibration:		
Log Tool Calibration Tool Calibration Date:	Log Tool Calibration Tool Calibration Date:		
Log Tool Calibration Tool Calibration Time:	Log Tool Calibration Tool Calibration Time:		
Log Tool Calibration Tool Calibration Method:	Log Tool Calibration Tool Calibration Method:		
Log Tool Calibration Tool Calibration Source:	Log Tool Calibration Tool Calibration Source:		
Log Tool Calibration Tool Calibration Tool:	Log Tool Calibration Tool Calibration Tool:		
Log Tool Calibration Tool Calibration Tool Serial:	Log Tool Calibration Tool Calibration Tool Serial:		
Log Tool Calibration Tool Calibration Tool Version:	Log Tool Calibration Tool Calibration Tool Version:		
Log Tool Calibration Tool Calibration Tool Length:	Log Tool Calibration Tool Calibration Tool Length:		
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Log Tool Calibration Tool Calibration Tool Current:	Log Tool Calibration Tool Calibration Tool Current:		
Log Tool Calibration Tool Calibration Tool Status:	Log Tool Calibration Tool Calibration Tool Status:		
Log Tool Calibration Tool Calibration Tool Error:	Log Tool Calibration Tool Calibration Tool Error:		
Log Tool Calibration Tool Calibration Tool Warning:	Log Tool Calibration Tool Calibration Tool Warning:		
Log Tool Calibration Tool Calibration Tool Comment:	Log Tool Calibration Tool Calibration Tool Comment:		

BOREHOLE RECORD

Last Edited: 15-JUL-2009 18:12

Bit Size (diameter)	Depth From (KB)	Depth To (KB)
140.000	0.00	6.00
105.000	6.00	400.00

CASING RECORD

Type	Size (diameter)	Depth From (KB)	Shoe Depth (KB)	Weight (grade)
	140.000	0.00	6.00	25.00

REMARKS

COORDINATES:
NORTHING:
EASTING:

DATING:
MEDIA:

TOOL RUNS:
WRL, GDB, BHG VSA, DIP, SONIC

BORE WALL CONDI : POOR
BORE HOLE CONDI : POOR

FLOWING WELL:

WELL WAS LOGGED STAND ALONE

OTHER TOOLS (EXCEPT FE) RAN FROM 395.0 DUE TO HOLE CONDITIONS
SONIC STARTED AT 363.0 DUE TO HOLE CONDITIONS
SPECTER WAS STARTED AT 395.0 DUE TO HOLE CONDITIONS

Verticality Analysis Interpretation Notes

10-JUL-2009 14:13

All data output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:5000(horizontal) and 1:4000(vertical), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points or multiples of 1, 2, 5, 10, 20, 50 or 100 instructed depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire listing).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH: The depth recorded on the field logs for the borehole.

TRUE DEPTH: The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.

HOLE TILT AND AZIMUTH: The sampled borehole orientation.

ABSA COORDINATES: The coordinates North and East from the target origin.

POLAR COORDINATES: The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logsoft\CMD0RAVEN-016\DIP-429-267.tlb.dw

Cross Section Scale: 1:500 Vertical Section Scale: 1:500 Depths in metres

Date Processed: 15-JUL-2009

Final Depth: 3.90, 0.00 North, 0.00 East of Origin

Date Logged: 15-JUL-2009

DEPTHS		BOREHOLE		ABSA. CO-ORDS		POLAR	
Log	True	Tilt	Azi.	North	East	Deg.	Radius
0.00	0.00	0.4	190.7	-0.01	0.02	109	0.02
0.50	0.50	0.6	214.1	-0.01	0.01	114	0.03
1.00	1.00	0.8	234.5	-0.01	0.00	127	0.02
1.50	1.50	1.0	258.1	-0.01	-0.05	261	0.05
2.00	2.00	1.0	281.7	-0.01	-0.10	263	0.10
2.50	2.50	1.1	304.4	-0.00	-0.15	272	0.15
3.00	3.00	1.0	284.6	0.02	-0.15	277	0.15
3.50	3.50	0.9	263.1	0.03	-0.20	281	0.20
20.00	20.00	0.9	341.5	0.08	-0.21	291	0.23
20.50	20.50	0.9	300.5	0.05	-0.25	262	0.26
21.00	21.00	0.9	259.5	0.02	-0.29	271	0.29
21.50	21.50	1.1	312.5	0.06	-0.32	281	0.32
22.00	22.00	1.1	365.5	0.10	-0.34	286	0.36
22.50	22.50	1.1	418.5	0.14	-0.36	291	0.39
23.00	23.00	1.2	284.2	0.16	-0.37	292	0.42
23.50	23.50	1.3	261.6	0.14	-0.44	287	0.46
24.00	24.00	1.4	239.0	0.12	-0.51	283	0.53
24.50	24.50	1.5	216.4	0.10	-0.58	280	0.60
25.00	25.00	1.6	193.8	0.08	-0.65	277	0.67
25.50	25.50	1.7	171.2	0.06	-0.72	275	0.74
26.00	26.00	1.8	148.6	0.04	-0.79	273	0.81
26.50	26.50	1.9	126.0	0.02	-0.86	271	0.88
27.00	27.00	2.0	103.5	0.00	-0.93	270	0.95
27.50	27.50	2.1	080.9	0.00	-1.00	269	1.02
28.00	28.00	2.2	058.3	0.00	-1.07	268	1.09
28.50	28.50	2.3	035.7	0.00	-1.14	267	1.16
29.00	29.00	2.4	013.1	0.00	-1.21	267	1.23
29.50	29.50	2.5	350.5	0.00	-1.28	267	1.30
30.00	30.00	2.6	327.9	0.00	-1.35	267	1.37
30.50	30.50	2.7	305.3	0.00	-1.42	267	1.44
31.00	31.00	2.8	282.7	0.00	-1.49	267	1.51
31.50	31.50	2.9	260.1	0.00	-1.56	267	1.58
32.00	32.00	3.0	237.5	0.00	-1.63	267	1.65
32.50	32.50	3.1	214.9	0.00	-1.70	267	1.72
33.00	33.00	3.2	192.3	0.00	-1.77	267	1.79
33.50	33.50	3.3	169.7	0.00	-1.84	267	1.86
34.00	34.00	3.4	147.1	0.00	-1.91	267	1.93
34.50	34.50	3.5	124.5	0.00	-1.98	267	2.00
35.00	35.00	3.6	101.9	0.00	-2.05	267	2.07
35.50	35.50	3.7	079.3	0.00	-2.12	267	2.14
36.00	36.00	3.8	056.7	0.00	-2.19	267	2.21
36.50	36.50	3.9	034.1	0.00	-2.26	267	2.28
37.00	37.00	4.0	011.5	0.00	-2.33	267	2.35
37.50	37.50	4.1	348.9	0.00	-2.40	267	2.42
38.00	38.00	4.2	326.3	0.00	-2.47	267	2.49
38.50	38.50	4.3	303.7	0.00	-2.54	267	2.56
39.00	39.00	4.4	281.1	0.00	-2.61	267	2.63
39.50	39.50	4.5	258.5	0.00	-2.68	267	2.70
40.00	40.00	4.6	235.9	0.00	-2.75	267	2.77
40.50	40.50	4.7	213.3	0.00	-2.82	267	2.84
41.00	41.00	4.8	190.7	0.00	-2.89	267	2.91
41.50	41.50	4.9	168.1	0.00	-2.96	267	2.98
42.00	42.00	5.0	145.5	0.00	-3.03	267	3.05
42.50	42.50	5.1	122.9	0.00	-3.10	267	3.12
43.00	43.00	5.2	100.3	0.00	-3.17	267	3.19
43.50	43.50	5.3	077.7	0.00	-3.24	267	3.26
44.00	44.00	5.4	055.1	0.00	-3.31	267	3.33
44.50	44.50	5.5	032.5	0.00	-3.38	267	3.40
45.00	45.00	5.6	009.9	0.00	-3.45	267	3.47
45.50	45.50	5.7	347.3	0.00	-3.52	267	3.54
46.00	46.00	5.8	324.7	0.00	-3.59	267	3.61
46.50	46.50	5.9	302.1	0.00	-3.66	267	3.68
47.00	47.00	6.0	279.5	0.00	-3.73	267	3.75
47.50	47.50	6.1	256.9	0.00	-3.80	267	3.82
48.00	48.00	6.2	234.3	0.00	-3.87	267	3.89
48.50	48.50	6.3	211.7	0.00	-3.94	267	3.96
49.00	49.00	6.4	189.1	0.00	-4.01	267	4.03
49.50	49.50	6.5	166.5	0.00	-4.08	267	4.10
50.00	50.00	6.6	143.9	0.00	-4.15	267	4.17
50.50	50.50	6.7	121.3	0.00	-4.22	267	4.24
51.00	51.00	6.8	098.7	0.00	-4.29	267	4.31
51.50	51.50	6.9	076.1	0.00	-4.36	267	4.38
52.00	52.00	7.0	053.5	0.00	-4.43	267	4.45
52.50	52.50	7.1	030.9	0.00	-4.50	267	4.52
53.00	53.00	7.2	008.3	0.00	-4.57	267	4.59
53.50	53.50	7.3	345.7	0.00	-4.64	267	4.66
54.00	54.00	7.4	323.1	0.00	-4.71	267	4.73
54.50	54.50	7.5	300.5	0.00	-4.78	267	4.80
55.00	55.00	7.6	277.9	0.00	-4.85	267	4.87
55.50	55.50	7.7	255.3	0.00	-4.92	267	4.94
56.00	56.00	7.8	232.7	0.00	-4.99	267	5.01
56.50	56.50	7.9	210.1	0.00	-5.06	267	5.08
57.00	57.00	8.0	187.5	0.00	-5.13	267	5.15
57.50	57.50	8.1	164.9	0.00	-5.20	267	5.22
58.00	58.00	8.2	142.3	0.00	-5.27	267	5.29
58.50	58.50	8.3	119.7	0.00	-5.34	267	5.36
59.00	59.00	8.4	097.1	0.00	-5.41	267	5.43
59.50	59.50	8.5	074.5	0.00	-5.48	267	5.50
60.00	60.00	8.6	051.9	0.00	-5.55	267	5.57
60.50	60.50	8.7	029.3	0.00	-5.62	267	5.64
61.00	61.00	8.8	006.7	0.00	-5.69	267	5.71
61.50	61.50	8.9	344.1	0.00	-5.76	267	5.78
62.00	62.00	9.0	321.5	0.00	-5.83	267	5.85
62.50	62.50	9.1	298.9	0.00	-5.90	267	5.92
63.00	63.00	9.2	276.3	0.00	-5.97	267	5.99
63.50	63.50	9.3	253.7	0.00	-6.04	267	6.06
64.00	64.00	9.4	231.1	0.00	-6.11	267	6.13
64.50	64.50	9.5	208.5	0.00	-6.18	267	6.20
65.00	65.00	9.6	185.9	0.00	-6.25	267	6.27
65.50	65.50	9.7	163.3	0.00	-6.32	267	6.34
66.00	66.00	9.8	140.7	0.00	-6.39	267	6.41
66.50	66.50	9.9	118.1	0.00	-6.46	267	6.48
67.00	67.00	10.0	095.5	0.00	-6.53	267	6.55
67.50	67.50	10.1	072.9	0.00	-6.60	267	6.62
68.00	68.00	10.2	050.3	0.00	-6.67	267	6.69
68.50	68.50	10.3	027.7	0.00	-6.74	267	6.76
69.00	69.00	10.4	005.1	0.00	-6.81	267	6.83
69.50	69.50	10.5	342.5	0.00	-6.88	267	6.90
70.00	70.00	10.6	319.9	0.00	-6.95	267	6.97
70.50	70.50	10.7	297.3	0.00	-7.02	267	7.04
71.00	71.00	10.8	274.7	0.00	-7.09	267	7.11
71.50	71.50	10.9	252.1	0.00	-7.16	267	7.18
72.00	72.00	11.0	229.5	0.00	-7.23	267	7.25
72.50	72.50	11.1	206.9	0.00	-7.30	267	7.32
73.00	73.00	11.2	184.3	0.00	-7.37	267	7.39
73.50	73.50	11.3	161.7	0.00	-7.44	267	7.46
74.00	74.00	11.4	139.1	0.00	-7.51	267	7.53
74.50	74.50	11.5	116.5	0.00	-7.58	267	7.60
75.00	75.00	11.6	093.9	0.00	-7.65	267	7.67
75.50	75.50	11.7	071.3	0.00	-7.72	267	7.74
76.00	76.00	11.8	048.7	0.00	-7.79	267	7.81
76.50	76.50	11.9	026.1	0.00	-7.86	267	7.88
77.00	77.00	12.0	003.5	0.00	-7.93	267	7.95
77.50	77.50	12.1	340.9	0.00	-8.00	267	8.02
78.00	78.00	12.2	318.3	0.00	-8.07	267	8.09
78.50	78.50	12.3	295.7	0.00	-8.14	267	8.16
79.00	79.00	12.4	273.1	0.00	-8.21	267	8.23
79.50	79.50	12.5	250.5	0.00	-8.28	267	8.30
80.00	80.00	12.6	227.9	0.00	-8.35	267	8.37
80.50	80.50	12.7	205.3	0.00	-8.42	267	8.44
81.00	81.00	12.8	182.7	0.00	-8.49	267	8.51
81.50	81.50	12.9	160.1	0.00	-8.56	267	8.58
82.00	82.00	13.0	137.5	0.00	-8.63	267	8.65
82.50	82.50	13.1	114.9	0.00	-8.70	267	8.72
83.00	83.00	13.2	092.3	0.00	-8.77	267	8.79
83.50	83.50	13.3	069.7	0.00	-8.84	267	8.86
84.00	84.00	13.4	047.1	0.00	-8.91	267	8.93
84.50	84.50	13.5	024.5	0.00	-8.98	267	8.99
85.00	85.00	13.6	001.9	0.00	-9.05	267	9.06
85.50	85.50	13.7	339.3	0.00	-9.12	267	9.13
86.00	86.00	13.8	316.7	0.00	-9.19	267	9.20
86.50	86.50	13.9	294.1	0.00	-9.26	267	9.27
87.00	87.00	14.0	271.5	0.00	-9.33	267	9.34
87.50	87.50	14.1	248.9	0.00	-9.40	267	9.41
88.00	88.00	14.2	226.3	0.00	-9.47	267	9.48
88.50	88.50	14.3	203.7	0.00	-9.54	267	9.55
89.00	89.00	14.4	181.1	0.00	-9.61	267	9.62
89.50	89.50	14.5	158.5	0.00	-9.68	267	9.69
90.00	90.00	14.6	135.9	0.00	-9.75	267	9.76
90.50	90.50	14.7	113.3	0.00	-9.82	267	9.83
91.00	91.00	14.8	090.7	0.00	-9.89	267	9.90
91.50	91.50	14.9	068.1	0.00	-9.96	267	9.97
92.00	92.00	15.0	045.5	0.00	-10.03	267	10.04
92.50	92.50	15.1	022.9	0.00	-10.10	267	10.11
93.00	93.00	15.2	000.3	0.00	-10.17	267	10.18
93.50	93.50	15.3	337.7	0.00	-10.24	267	10.25
94.00	94.00	15.4	315.1	0.00	-10.31	267	10.32
94.50	94.50	15.5	292.5	0.00	-10.38	267	10.39
95.00	95.00	15.6	269.9	0.00	-10.45	267	10.46
95.50	95.50	15.7	247.3	0.00	-10.52	267	10.53
96.00	96.00	15.8	224.7	0.00	-10.59	267	10.60
96.50	96.50	15.9	202.1	0.00	-10.66	267	10.67
97.00	97.00	16.0	179.5	0.00	-10.73	267	10.74
97.50	97.50	16.1	156.9	0.00	-10.80	267	10.81
98.00	98.00	16.2	134.3	0.00	-10.87	267	10.88
98.50	98.50	16.3	111.7	0.00	-10.94	267	10.95
99.00	99.00	16.4	089.1	0.00	-11.01	267	11.02
99.50	99.50	16.5	066.5	0.00	-11.08	267	11.09
100.00	100.00	16.6	043.9	0.00	-11.15	267	11.16
100.50	100.50	16.7	021.3	0.00	-11.22	267	11.23
101.00	101.00	16.8	358.7	0.00	-11.29	267	11.30
101.50	101.50	16.9	336.1	0.00	-11.36	267	11.37
102.00	102.00	17.0	313.5	0.00	-11.43	267	11.44
102.50	102.50	17.1	290.9	0.00	-11.50	267	11.51
103.00	103.00	17.2	268.3	0.00	-11.57	267	11.58
103.50	103.50	17.3	245.7	0.00	-11.64	267	11.65
104.00	104.00	17.4	223.1	0.00	-11.71	267	11.72
104.50	104.50	17.5	200.5	0.00	-11.78	267	11.79
105.00	105.00	17.6	177.9	0.00	-11.85	267	11.86
105.50	105.50	17.7	155.3	0.00	-11.92	267	11.93
106.00	106.00	17.8	132.7	0.00	-11.99	267	11.99
106.50	106.50	17.9	110.1	0.00	-12.06	267	12.06
107.00	107.00	18.0	087.5	0.00	-12.13	267	12.13
107.50	107.50	18.1	064.9	0.00	-12.20	267	12.20
108.00	108.00	18.2	042.3	0.00	-12.27	267	12.27
108.50	108.50	18.3	019.7	0.00	-12.34	267	12.34
109.00	109.00	18.4	357.1	0.00	-12.41	267	12.41
109.50	109.50	18.5	334.5	0.00	-12.48	267	12.48
110.00	110.00	18.6	311.9	0.00	-12.55	267	12.55
110.50	110.50	18.7	289.3	0.00	-12.62	267	12.62
111.00	111.00	18.8	266.7	0.00	-12.69	267	12.69
111.50	111.50	18.9	244.1	0.00	-12.76	267	12.76
112.00	112.00	19.0	221.5	0.00	-12.83	267	12.83
112.50	112.50	19.1	198.9	0.00	-12.90	267	12.90
113.00	113.00	19.2	176.3	0.00	-12.97	267	12.97
113.50	113.50	19.3	153.7	0.00	-13.04	267	13.04
114.00	114.00	19.4	131.1	0.00	-13.11	267	13.11
114.50	114.50	19.5	108.5	0.00	-13.18	267	13.18
115.00	115.00	19.6	085.9	0.00	-13.25	267	13.25
115.50	115.50	19.7	063.3	0.00	-13.32	267	13.32
116.00	116.00	19.8	040.7	0.00	-13.39	267	13.39
116.50	116.50	19.9	018.1	0.00	-13.46	267	13.46
117.00	117.00	20.0	355.5	0.00	-13.53	267	13.53
117.50	117.50	20.1	332.9	0.00	-13.60	267	13.60
118.00	118.00	20.2	310.3	0.00	-13.67	267	13.67
118.50	118.50	20.3	287.7	0.00	-13.74	267	13.74
119.00	119.00	20.4	265.1	0.00	-13.81	267	13.81
119.50	119.50	20.5	242.5	0.00	-13.88	267	13.88
120.00	120.00	20.6	219.9	0.00	-13.95	267	13.95
120.50	120.50	20.7	197.3	0.00	-14.02	267	14.02
121.00	121.00	20.8	174.7	0.00	-14.09	267	14.09
121.50	121.50	20.9	152.1	0.00	-14.16	267	14.16
122.00	122.00	21.0	129.5	0.00	-14.23	267	14.23
122.50	122.50	21.1	106.9	0.00	-14.30	267	14.30
123.00	123.00	21.2	084.3	0.00	-14.37	267	14.37
123.50	123.50	21.3	061.7	0.00	-14.44	267	14.44
124.00	124.00	21.4	039.1	0.00	-14.51	267	14.51
124.50	124.50	21.5	016.5	0.00	-14.58	267	14.58
125.00	125.00	21.6	353.9	0.00	-14.65	267	14.65
125.50	125.50	21.7	331.3	0.00	-14.72	267	14.72
126.00	126.00	21.8	308.7	0.00	-14.79	267	14.79
126.50	126.50	21.9	286.1	0.00	-14.86	267	14.86
127.00	127.00	22.0	263.5	0.00	-14.93	267	14.93
127.50	127.50	22.1	240.9	0.00	-15.00	267	15.00
128.00	128.00	22.2	218.3	0.00	-15.07	267	15.07
128.50	128.50	22.3	195.7	0.00	-15.14	267	15.14
129.00	129.00	22.4	173.1	0.00	-15.21	267	15.21
129.50	129.50	22.5	150.5	0.00	-15.28	267	15.28
130.00	130.00	22.6	127.9	0.00	-15.35	267	15.35
130.50	130.50	22.7	105.3	0.00	-15.42	267	15.42
131.00	131.00	22.8	082.7	0.00	-15.49	267	15.49
131.50	131.50	22.9	060.1	0.00	-15.56	267	15.56
132.00	132.00	23.0	037.5	0.00	-15.63	267	15.63
132.50	132.50	23.1	014.9	0.00	-15.70	267	15.70
133.00	133.00	23.2	352.3	0.00	-15.77	267	15.77
133.50	133.50	23.3	329.7	0.00	-15.84	267	15.84
134.00	134.00	23.4	307.1	0.00	-15.91	267	15.91
134.50	134.50	23.5	284.5	0.00	-15.98	267	15.98
135.00	135.00	23.6	261.9	0.00	-16.05	267	16.05
135.50	135.50	23.7	239.3	0.00	-16.12	267	16.12
136.00	136.00	23.8	216.7	0.00	-16.19	267	16.19
136.50	136.50	23.9	194.1	0.00	-16.26	267	16.26
137.00	137.00	24.0	171.5	0.00	-16.33	267	16.33
137.50	137.50	24.1	148.9	0.00	-16.40	267	16.40
138.00	138.00	24.2	126.3	0.00	-16.47	267	16.47
138.50	138.50	24.3	103.7	0.00	-16.54	267	16.54
139.00	139.00	24.4	081.1	0.00	-16.61	267	16.61
139.50	139.50	24.5	058.5	0.00	-16.68	267	16.68
140.00	140.00	24.6	035.9	0.00	-16.75	267	16.75
140.50	140.50	24.7	013.3	0.00	-16.82	267	16.82
141.00	141.00	24.8	350.7	0.00	-16.89	267	16.89
141.50	141.50	24.9	328.1	0.00	-16.96	267	16.96
142.00	142.00	25.0	305.5	0.00	-17.03

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-017		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Early Bushing	metres	First Reading	302.50 metres
Elevation Ground Level	metres	Depth Order	303.50 metres
Elevation Drill Floor	metres	Depth Logger	303.50 metres

COMPLIANCE COAL CORP
RAV09-017
UNDEFINED
BRITISH COLUMBIA
CANADA

COMPOSITE COAL LOG

Weatherford

Depth Based Data - Merged File
Filename: C:\logs\CMC\RAV09-017\017_MWN.mgs
Screen Versions: Merged with 8.08 DAD

Plotted on 15-JUL-2009 02:40
Merged on 9-JUL-2009 13:40

Plotted with 8.08 DAD

BOREHOLE RECORD

Last Edited, 9-JUL-2009 13:24

Bit Size millimetres	Depth From metres	Depth To metres
152.400	0.00	203.70
149.500	203.70	279.00
145.500	279.00	305.50

CASING RECORD

Type	Size millimetres	Depth Logger metres	Shoe Depth metres	Weight kg/metre
	152.500	0.00	29.50	25.30

REMARKS

COORDINATES
NEW HOLE

CASTING
WRITE

TOOL RUNS
MWL, GDK, IMT, TEMP

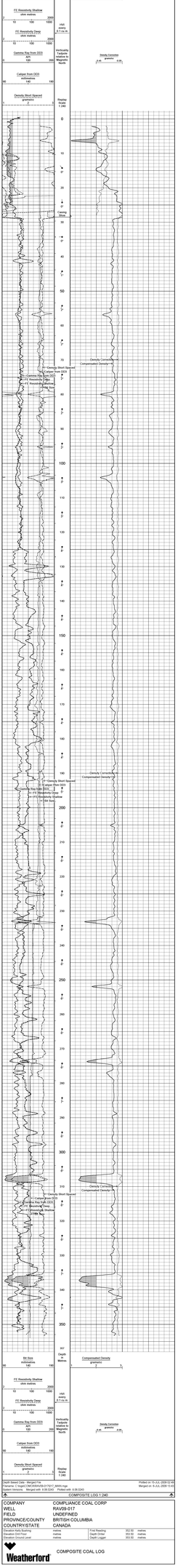
BORE WALL COND: MEDIUM
BORE HOLE COND: GOOD

NON-PLUNGING WELL

WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

COMPOSITE LOG 1:240



Depth Based Data - Merged File
Filename: C:\logs\CMC\RAV09-017\017_MWN.mgs
Screen Versions: Merged with 8.08 DAD

Plotted on 15-JUL-2009 02:40
Merged on 9-JUL-2009 13:40

Plotted with 8.08 DAD

COMPOSITE LOG 1:240

COMPANY COMPLIANCE COAL CORP
WELL RAV09-017
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA
Elevation Early Bushing metres | First Reading 302.50 metres
Elevation Ground Level metres | Depth Order 303.50 metres
Elevation Drill Floor metres | Depth Logger 303.50 metres

Weatherford

COMPOSITE COAL LOG

Company	Chevron	Date	2-Jan-2011
Well	Tahoe 1	Time	12:00
Field	Wildcat	Operator	Rigby
Rig	Nabors 105	Recorder	8

Logging Parameters

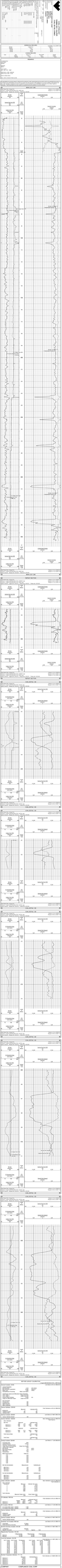
Log	Start	Stop	Step	Speed
Gamma Ray	0	1000	0.5	30
Resistivity	0	1000	0.5	30

Comments

Tool Type: Gamma Ray
Serial No: 1
Tool Type: Resistivity
Serial No: 1
Tool Type: Resistivity
Serial No: 2

Gamma Ray Calibration
Low Calibration Value: 0 API
High Calibration Value: 100 API
Resistivity Calibration
Low Calibration Value: 0 ohm-m
High Calibration Value: 100 ohm-m

Weatherford Logging Services, Inc. Tel: 1-800-WEATHER Fax: 1-800-WEATHER Email: Weatherford@Weatherford.com Web: www.Weatherford.com



COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN-017
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation: Kelly Bushing	Elev. Reference 0.00 m metres
Elevation: Drill Floor	Depth Datum 0.00 m metres
Elevation: Ground Level	Depth Origin 0.00 m metres

DUAL FOCUSSED ELECTRIC
GAMMA RAY, CALIPER

Weatherford

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN-017
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation: Kelly Bushing	Elev. Reference 0.00 m metres
Elevation: Drill Floor	Depth Datum 0.00 m metres
Elevation: Ground Level	Depth Origin 0.00 m metres

DUAL FOCUSSED ELECTRIC
GAMMA RAY, CALIPER

All interpretations are opinions based on inferences from electrical or other measurements and are carried out to the guarantee the accuracy of interpretations of any interpretations, and we shall not be liable in the case of gross or willful negligence on our part. We shall not be responsible for any consequential damages, nor shall our liability for any other cause of action exceed the amount paid to us for such interpretation. We make no other warranty or representations. These interpretations are also subject to our general terms and conditions in our price schedule.

MAIN LOG 1:240

Depth Scale: 0 - 350 m
Depth Scale Date: Merged File
Filename: C:\logs\COMCORAVEN-017\017_MAIN.logs
System Version: Merged with 9.08.0312 Polled with 9.08.0240

Merged on: 9-Jul,-2009 - 9:44

Gamma Ray API Units 0 150 | Caliper Data DCB mm 0 500 | Bit Size millimetres 150 350 | Depth Scale 1:240 | Depth Metres | FE Resistivity Shallow Ohm metres 0.20 1 10 100 1000 2000 | FE Resistivity Deep Ohm metres 0.20 1 10 100 1000 2000

REPEAT SECTION

Depth Scale: 0 - 350 m
Depth Scale Date: Merged File
Filename: C:\logs\COMCORAVEN-017\017_REPEAT.logs
System Version: Logged with 9.08.0312 Polled with 9.08.0240

Merged on: 09-Jul,-2009 - 11:46

Gamma Ray API Units 0 150 | Caliper Data DCB mm 0 500 | Bit Size millimetres 150 350 | Depth Scale 1:240 | Depth Metres | FE Resistivity Shallow Ohm metres 0.20 1 10 100 1000 2000 | FE Resistivity Deep Ohm metres 0.20 1 10 100 1000 2000

MAIN LOG 1:240

Depth Scale: 0 - 350 m
Depth Scale Date: Merged File
Filename: C:\logs\COMCORAVEN-017\017_MAIN.logs
System Version: Merged with 9.08.0312 Polled with 9.08.0240

Merged on: 9-Jul,-2009 - 9:44

Gamma Ray API Units 0 150 | Caliper Data DCB mm 0 500 | Bit Size millimetres 150 350 | Depth Scale 1:240 | Depth Metres | FE Resistivity Shallow Ohm metres 0.20 1 10 100 1000 2000 | FE Resistivity Deep Ohm metres 0.20 1 10 100 1000 2000

REPEAT SECTION

Depth Scale: 0 - 350 m
Depth Scale Date: Merged File
Filename: C:\logs\COMCORAVEN-017\017_REPEAT.logs
System Version: Logged with 9.08.0312 Polled with 9.08.0240

Merged on: 09-Jul,-2009 - 11:46

Gamma Ray API Units 0 150 | Caliper Data DCB mm 0 500 | Bit Size millimetres 150 350 | Depth Scale 1:240 | Depth Metres | FE Resistivity Shallow Ohm metres 0.20 1 10 100 1000 2000 | FE Resistivity Deep Ohm metres 0.20 1 10 100 1000 2000

BEFORE SURVEY CALIBRATION

C:\logs\COMCORAVEN-017\017_TOMP.W.dlis

Last Edited on 09-JUL-2009,09:39

General Parameters

Mud Type	3.210	ohm metres
Mud Resistivity Temperature	20.000	degrees C
Water Level	0.000	metres
Detailed/Random Processing	Water Level Not Entered	

Gamma Ray Offsets and Differential Caliper Parameters

HNGS Caliper 1	Caliper from CDR	
HNGS Caliper 2	Caliper from CDR	
Average Internal Diameter	16.000	mm
Caliper for Differential Caliper	Caliper from CDR	

Mud Parameters

Mud Density	N/A	
Resistivity used	N/A	
Resistivity Temperature	N/A	
Water Level used	N/A	

Gamma Calibration: CDX-991

Field Calibration on 09-JUL-2009,09:39

	Measured	Calibrated (API)
Background	24	0
Calibrator (Gross)	140	451
Calibrator (Net)	275	426

Gamma Constants: CDX-991

Last Edited on 21-MAY-2009,15:48

Gamma Calibration Number 425

Calipar Calibration: CDX-991

Base Calibration on 09-JUL-2009,09:39

Field Calibration on

Reading Tip

	Measured	Calibration Size (mm)
1	0981	19.30
2	2700	127.00
3	2700	127.00
4	3598	152.40
5	4500	177.80
6	5400	203.20

Field Calibration

	Measured Caliper (mm)	Actual Caliper (mm)
	0.00	0.00

FE Calibration: RRS 544

Field Calibration on 09-JUL-2009,21:35

FE Constant PRM (deep) = 2.0000
FE Constant PRM (shallow) = 1.9000

Reference 1	Shallow 1000.0	Deep 1000.0	Shallow 1000.0	Deep 1000.0
Reference 2	3000.0	3000.0	3000.0	3000.0

FE Constants: RRS 544

Last Edited on 17-JUN-2008,18:48

FE Constant PRM (deep) = 2.000
FE Constant PRM (shallow) = 1.900

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN-017
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation: Kelly Bushing	Elev. Reference 0.00 m metres
Elevation: Drill Floor	Depth Datum 0.00 m metres
Elevation: Ground Level	Depth Origin 0.00 m metres

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DUAL FOCUSSED ELECTRIC
GAMMA RAY, CALIPER

COMPANY	COMPLIANCE COAL CORP						
WELL	RAV09-017						
FIELD	UNDEFINED						
PROVINCE/COUNTY	BRITISH COLUMBIA						
COUNTRY/STATE	CANADA						
LSD	SEC	TWP	RGE	Other Services			
LAT							
LNG							

MINI PLOT

Licence Number	
Permanent Datum GL Elevation MA metres	
Log Measured from GROUND LEVEL above Permanent Datum	
Drilling Measured From	
Elevations KB metres GL	

Run Number	1	
Date	06-JUL-2009	
Depth Driller	353.50	metres
Depth Logger	350.50	metres
Bottom Log Interval	350.50	metres
Top Log Interval	0.00	metres
First Reading	352.50	metres
Last Reading	0.00	metres
Casing Logger	28.50	metres
Bit Size	350.50	metres
Casing Type	WATER	
Density / Viscosity		
PH / Fluid Loss		
Source of Sample		
Rm @ Measured Temp		
Rmf @ Measured Temp		
Rmc @ Measured Temp		
Source Rmf / Rmc		
Rm @ BHT		
Max Recorded Temp		
Equipment Name		
Recorded By	TEMP	
Witnessed By	C. LEONARD	RDR
	O. CULLINGHAM	

BOREHOLE RECORD

Last Edited: 6-JUL-2009 13:24

Bit Size millimetres	Depth From metres	Depth To metres
162.500	0.00	233.70
148.500	233.70	278.00
143.500	278.00	350.50

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	162.500	0.00	28.50	25.30

REMARKS

COORDINATES:
NORTHING:
5483450

EASTING:
395570

TOOL RUNS:
RR5 , DD6 , VRT , TEMP

BORE WALL COND : MEDIUM
BORE HOLE COND : GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made byany of our officers, agents or employees . These interpretations are also subject to our general terms and conditions in our price schedule.

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-017
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres		First Reading	352.50	metres
Elevation Drill Floor	metres		Depth Driller	353.50	metres
Elevation Ground Level	metres		Depth Logger	353.50	metres

Weatherford®

MINI PLOT

BORHOLE TEMPERATURE DIFFERENTIAL TEMPERATURE

COMPANY COMPLIANCE COAL CORP
WELL RAVEN-017
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

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BOREHOLE RECORD

Bit Size	Depth from	Depth to	Last Entry: 8-JUL-2009 15:00
152.400	0.00	279.70	Depth TD
152.400	279.70	279.70	279.70
152.400	279.70	279.70	279.70

CASING RECORD

Type	Size (mm)	Weight per unit length (kg/m)	Shoe Depth (m)	Weight (kg)
CSG	168.275	34.500	279.70	9647.00

REMARKS

1.) ROBINSON
NOTHING
2.) ROBINSON
DIRECTIONAL
WRITE

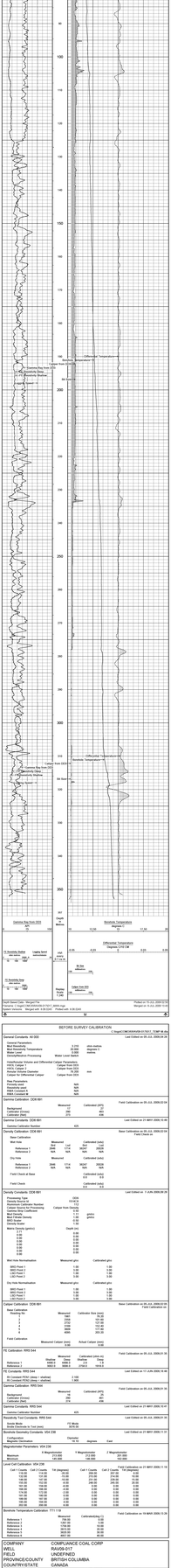
TOTAL SLOND
SLOND WELL LOND - TEMP

SLOND WELL LOND - MEDIUM
SLOND WELL LOND - DVDO

NOTHING (WRING WELL)

WELL WAS CLOSED STAND ALONE

All representations and opinions based on electronic field attributes or other measurements given service and to the best of our knowledge, but we cannot and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable for any loss or damage sustained by any person or persons that may rely on these representations or opinions. Errors, omissions, or inaccuracies in our interpretations shall not be considered a gross negligence on our part or that of our officers, agents or employees. All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee that a particular formation will produce hydrocarbons, water or any other material.


Depth Scale: 1:500
Depth Reference: Ground Level
Processed in Canada: GEOSCIENCES INTERNATIONAL
Processed on: 8-JUL-2009 15:00
Gamma Ray Scale: 0/0/0
Gamma Ray Units: API
Temperature Scale: 0/0/0
Temperature Units: Deg C
Differential Temperature Scale: 0/0/0
Differential Temperature Units: Deg C
Resistivity Scale: 0/0/0
Resistivity Units: Ohm-m
Gamma Ray Scale: 0/0/0
Gamma Ray Units: API
Resistivity Scale: 0/0/0
Resistivity Units: Ohm-m
Differential Temperature Scale: 0/0/0
Differential Temperature Units: Deg C

VERTICALITY ANALYSIS

COMPANY: COMPLIANCE COAL CORP
WELL: RAVSB-017
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

Elevation Kelly Bushing	metres	First Reading	352.50 metres
Elevation Ground Level	metres	Last Reading	353.50 metres
Elevation Drill Floor	metres	Depth Logged	353.50 metres

DUAL FOCUSSED ELECTRIC
GAMMA RAY, CALIPER

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BOREHOLE RECORD

Last Edited: 5-JUL-2006 13:24

Bit Size	Depth From	Depth To
152.40	0.00	252.70
139.70	252.70	259.70
140.500	259.70	353.50

CASING RECORD

Type	Size	Wall Thickness	Shoe Depth	Weight
	mm OD	mm	metres	kg/m
	139.70	6.20	252.70	21.30

REMARKS

COORDINATES
NORTHING
DRAWN
EASTING
BRISTS

TOOL RUNS
WRL, DGR, VRT, TEMP

SONE WALL CONDITION: MEDIUM
SONE HOLE COND: GOOD

ROLL/CONVEX WELL:

WELL WAS LOGGED STAND ALONE

Verticality Analysis Interpretation Notes

06-JUL-2006 11:40

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1 1000(metres) and 1 4000(metres), and the minimum 1 1.

The analysis is derived by integrating 10cm sampled data down the borehole. The holing supplied will contain a maximum of 200 readings per metre. Data at 10cm is not always available, particularly when the tool is moving slowly. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logic\Cmw\ravsb\RAVSB-017\RVS4 236.dat

All Co-ordinates With Respect To True North, all depths in metres.	Date Processed: 06-JUL-2006
First Depth: 0.10, 0.00 North, 0.00 East of Origin	Date Logged: 05-JUL-2006

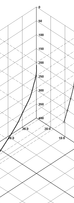
DEPTHS		TOOL RUN		AXIAL COORDS		POLAR	
LOG	TRUE	DEPTH	TILT	NORTH	EAST	RADIUS	ANGLE
10.00	10.00	0.5	0.4	0.00	0.00	00	0.00
12.00	12.00	0.5	12.7	0.01	0.00	23	0.01
14.00	14.00	0.5	25.0	0.02	0.00	0	0.00
16.00	16.00	0.5	32.6	0.03	0.00	352	0.03
18.00	18.00	0.6	199.0	0.02	-0.01	333	0.02
20.00	20.00	0.4	35.1	0.02	-0.01	333	0.02
22.00	22.00	0.4	35.1	0.02	-0.01	333	0.02
24.00	24.00	0.4	35.1	0.00	0.00	115	0.00
26.00	26.00	0.4	35.1	0.00	0.00	115	0.00
28.00	28.00	0.4	15.8	0.02	0.00	19	0.02
30.00	30.00	0.3	212.6	0.03	0.00	0	0.03
32.00	32.00	0.3	212.6	0.03	-0.01	352	0.03
34.00	34.00	0.3	267.2	0.03	-0.03	310	0.04
36.00	36.00	0.9	36.6	0.02	-0.06	290	0.06
38.00	38.00	0.9	36.6	0.02	-0.09	290	0.09
40.00	40.00	1.4	299.4	0.00	-0.11	272	0.11
42.00	42.00	1.5	341.7	0.02	-0.14	263	0.14
44.00	44.00	1.5	341.7	0.04	-0.16	254	0.17
46.00	46.00	1.5	341.7	-0.07	-0.21	251	0.22
48.00	48.00	1.5	234.4	-0.15	-0.26	240	0.30
50.00	50.00	1.5	234.4	-0.15	-0.28	242	0.32
52.00	52.00	1.5	234.4	-0.15	-0.29	244	0.33
54.00	54.00	1.5	234.4	-0.15	-0.31	246	0.35
56.00	55.99	1.6	234.7	-0.30	-0.41	234	0.51
58.00	57.99	1.6	234.7	-0.45	-0.52	229	0.69
60.00	59.99	1.5	241.1	-0.57	-0.61	227	0.84
62.00	61.99	2.4	233.7	-0.45	-0.54	230	0.70
64.00	63.99	2.4	233.7	-0.32	-0.46	234	0.56
66.00	65.99	2.4	233.7	-0.20	-0.39	238	0.44
68.00	67.99	2.4	233.8	-0.61	-0.67	227	0.92
70.00	69.99	2.4	233.8	-0.76	-0.79	226	1.08
72.00	71.99	2.4	233.8	-0.76	-0.88	229	1.16
74.00	73.98	2.3	234.4	-0.93	-0.91	224	1.16
76.00	75.98	2.3	234.4	-0.93	-0.94	225	1.19
78.00	77.98	2.3	234.4	-0.93	-0.97	226	1.22
79.90	79.88	2.1	234.7	-1.04	-0.93	222	1.40
81.90	81.88	2.1	234.7	-1.14	-0.90	222	1.52
83.90	83.87	2.1	234.7	-1.14	-1.00	222	1.60
85.90	85.87	2.3	216.2	-1.25	-1.15	219	1.82
87.90	87.87	2.3	216.2	-1.25	-1.29	219	1.99
89.90	89.87	2.7	202.8	-1.36	-1.45	218	2.19
91.90	91.86	2.5	200.2	-1.49	-1.13	217	1.87
93.90	93.86	2.5	200.2	-1.49	-1.27	217	2.09
95.90	95.86	2.5	200.2	-1.66	-1.42	218	2.36
97.90	97.86	2.9	200.3	-1.84	-1.57	219	2.67
99.90	99.86	2.9	200.3	-1.84	-1.73	219	2.93
101.90	101.86	2.9	200.3	-1.84	-1.88	219	3.19
103.90	103.86	3.1	198.6	-1.94	-2.04	220	3.46
105.90	105.85	3.1	198.6	-2.14	-1.91	212	3.51
107.90	107.85	3.1	198.6	-2.34	-1.78	213	3.56
109.90	109.85	3.1	198.6	-2.54	-1.65	214	3.61
110.90	110.84	3.4	198.4	-2.66	-1.58	209	2.42
112.90	112.84	3.7	198.4	-2.88	-1.45	211	2.64
114.90	114.84	3.7	198.4	-2.88	-1.32	212	2.67
116.90	116.83	4.1	205.2	-2.91	-1.47	208	3.17
118.90	118.83	4.1	205.2	-2.91	-1.62	208	3.37
120.90	120.83	4.1	205.2	-2.91	-1.77	208	3.57
124.90	124.81	4.5	206.3	-3.21	-1.80	206	3.58
126.90	126.81	4.5	206.3	-3.37	-1.88	206	3.73
128.90	128.81	4.5	206.3	-3.53	-1.96	206	3.88
130.90	130.80	4.5	204.1	-3.65	-1.77	206	4.06
132.90	132.80	4.5	204.1	-3.77	-1.58	206	4.24
134.90	134.80	4.5	204.1	-3.91	-1.39	206	4.40
136.90	136.80	5.1	214.1	-4.13	-1.96	205	4.57
138.90	138.80	5.1	214.1	-4.36	-2.53	206	4.81
140.90	140.80	5.1	214.1	-4.58	-3.10	206	5.05
142.90	141.80	5.1	216.1	-4.80	-2.16	205	5.06
144.90	143.80	5.1	216.1	-5.02	-2.22	205	5.29
146.90	145.80	5.1	216.1	-5.24	-2.28	205	5.52
148.90	147.80	5.1	216.1	-5.46	-2.34	205	5.75
150.90	149.80	5.2	221.1	-5.72	-2.44	205	5.76
152.90	151.80	5.2	221.1	-5.98	-2.54	205	5.77
154.90	153.80	5.2	221.1	-6.24	-2.64	205	5.78
156.90	155.80	5.2	221.1	-6.50	-2.74	205	5.79
158.90	157.80	5.2	221.1	-6.76	-2.84	205	5.80
160.90	159.80	5.2	221.1	-7.02	-2.94	205	5.81
162.90	161.79	5.2	229.2	-7.27	-3.04	205	5.82
164.90	163.79	5.2	229.2	-7.51	-3.14	205	5.83
166.90	165.79	5.2	229.2	-7.75	-3.24	205	5.84
168.90	167.79	4.9	208.4	-8.00	-2.94	204	7.29
170.90	169.79	4.9	208.4	-8.25	-2.64	204	7.74
172.90	171.79	4.9	208.4	-8.50	-2.34	204	8.19
174.90	173.79	4.9	208.3	-7.13	-3.16	204	7.80
176.90	175.79	4.9	208.3	-7.75	-3.98	204	8.42
178.90	177.79	4.9	208.3	-8.37	-4.80	204	9.12
180.90	179.71	4.9	213.3	-7.85	-3.32	204	8.39
182.90	181.71	4.9	213.3	-7.85	-3.84	204	8.74
184.90	183.71	4.9	213.3	-7.82	-4.35	203	9.03
186.90	185.69	4.9	213.1	-8.08	-3.49	203	8.81
188.90	187.69	4.9	213.1	-8.34	-2.63	203	8.76
190.90	189.67	4.9	209.2	-8.59	-1.77	203	8.73
192.90	191.67	4.9	207.6	-8.77	-0.89	203	9.02
194.90	193.67	5.0	212.1	-8.95	-0.01	203	9.31
196.90	195.66	5.0	212.1	-9.13	-0.81	203	9.61
198.90	197.66	5.0	212.1	-9.31	-1.61	203	9.91
200.90	199.64	5.4	206.7	-9.22	-1.92	203	10.02
202.90	201.64	5.4	206.7	-9.13	-2.23	203	10.13
204.90	203.64	5.4	206.7	-9.04	-2.54	203	10.24
206.90	205.61	6.3	206.2	-8.78	-4.14	203	10.60
208.90	207.61	6.3	206.2	-8.52	-5.74	203	10.96
210.90	209.61	6.3	206.2	-8.26	-7.34	203	11.32
212.90	211.57	5.7	211.5	-10.34	-4.38	203	11.23
214.90	213.57	5.7	211.5	-10.42	-3.02	203	11.26
216.90	215.57	5.7	211.5	-10.52	-1.66	203	11.29
218.90	217.54	6.1	211.7	-10.91	-4.62	203	11.65
220.90	219.54	6.1	211.7	-11.30	-7.58	203	12.01
222.90	221.52	6.3	210.1	-11.55	-5.15	203	11.52
224.90	223.51	6.3	210.1	-11.50	-4.85	203	12.49
226.90	225.51	6.3	210.1	-11.45	-4.55	203	12.46
228.90	227.51	6.3	210.1	-11.40	-4.25	203	12.43
230.90	229.49	6.6	204.4	-12.08	-3.08	203	13.10
232.90	231.49	6.6	204.4	-12.76	-1.91	203	13.77
234.90	233.49	6.6	204.4	-12.68	-0.74	203	13.55
236.90	235.46	6.5	211.7	-12.95	-5.34	203	13.77
238.90	237.46	6.5	211.7	-13.22	-9.94	203	14.00
240.90	239.46	6.5	211.7	-13.49	-14.54	203	14.21
242.90	241.43	6.5	215.4	-13.50	-9.60	203	14.43
244.90	243.43	6.5	215.4	-13.51	-4.66	203	14.64
246.90	245.43	6.5	215.4	-13.52	-0.72	203	14.85
248.90	247.41	6.7	213.5	-14.14	-3.96	203	15.34
250.90	249.39	6.7	213.5	-14.76	-7.20	203	15.83
252.90	251.39	6.9	209.5	-14.77	-8.22	203	16.03
254.90	253.39	6.9	209.5	-14.77	-9.22	203	16.03
256.90	255.39	6.9	209.5	-14.77	-10.22	203	16.03
258.90	257.37	6.9	210.6	-15.42	-8.46	203	16.72
260.90	259.37	6.9	210.6	-16.07	-6.70	203	17.41
262.90	261.35	6.9	211.8	-16.07	-6.74	203	17.43
264.90	263.35	6.9	211.8	-16.07	-6.78	203	17.45
266.90	265.35	6.9	211.8	-16.07	-6.82	203	17.47
268.90	267.33	7.0	213.0	-16.72	-7.00	203	18.12
270.90	269.33	7.0	213.0	-17.37	-7.18	203	18.77
272.90	271.33	6.7	209.7	-17.58	-7.26	203	18.99
274.90	273.31	6.7	209.7	-17.78	-7.34	203	19.21
276.90	275.31	6.7	209.7	-17.98	-7.42	203	19.43
278.90	277.29	6.7	210.7	-18.22	-7.50	203	19.67
280.90	279.29	6.7	210.7	-18.46	-7.58	203	19.91
282.90	281.27	6.7	212.7	-18.70	-7.66	203	20.15
284.90	283.27	6.7	212.7	-18.94	-7.74	203	20.39
286.90	285.27	6.7	212.7	-19.18	-7.82	203	20.63
288.90	287.25	6.7	212.7	-19.42	-7.90	203	20.87
290.90	289.25	6.7	212.7	-19.66	-7.98	203	21.11
292.90	291.23	6.7	212.7	-19.90	-8.06	203	21.35
294.90	293.23	6.7	212.7	-20.14	-8.14	203	21.59
296.90	295.23	6.7	212.7	-20.38	-8.22	203	21.83
298.90	297.21	6.7	212.7	-20.62	-8.30	203	22.07
300.90	299.21	6.7	212.7	-20.86	-8.38	203	22.31
302.90	301.19	7.0	209.2	-20.91	-8.74	203	22.67
304.90	303.19	7.0	209.2	-20.96	-9.10	203	23.03
306.90	305.19	7.1	213.2	-21.02	-9.46	203	23.39
308.90	307.17	7.1	214.2	-21.57	-9.63	203	23.78
310.90	309.17	7.1	214.2	-22.12	-9.80	203	24.17
312.90	311.17	7.1	214.2	-22.67	-9.97	203	24.56
324.90	323.02	6.7	215.8	-22.23	-9.32	203	24.11
326.90	325.02	6.7	215.8	-21.79	-8.67	203	23.66
328.90	327.00	6.7	215.8	-21.35	-8.02	203	23.21
330.90	329.00	6.7	215.8	-20.91	-7.37	203	22.76
332.90	330.98	6.7	215.8	-20.47	-6.72	203	22.31
334.90	332.98	6.7	215.8	-20.03	-6.07	203	21.86
336.90	334.73	7.2	213.8	-20.56	-6.84	203	20.55
338.90	336.73	7.2	213.8	-21.09	-7.61	203	21.24
340.90	338.73	7.2	213.8	-21.62	-8.38	203	21.93
342.90	340.69	7.4	204.0	-22.29	-10.17	203	26.26
344.90	342.69	7.4	204.0	-22.96	-11.96	203	30.59
346.90	344.69	7.4	204.0	-23.63	-13.75	203	34.92
348.90	346.65	7.2	213.9	-25.74	-10.57	203	27.27
350.90	348.65	7.2	213.9	-25.77	-10.67	203	27.52

Cross Section

All Figures are Log Depths in metres

Target Origin Grade 0 to 10
Vertical Scale 1 to 2000
Depth Markers annotated in multiples of 50
Left Depth Marker at 0.0
Last Depth Marker at 350

Plot With Respect to True North
Grade 1:1000
Declination 18.7 deg East



Final Borehole Position
The last plotted depth is at
0.00 metres North
-10.67 metres West
or 21.52 metres from the origin
203 deg from True North

Vertical Sections

North-South Section

East-West Section

(True Depth vs Displacement)
Vertical Scale 1:2000
Horizontal Scale 1:1000
Markers annotated as above

Depth Correction Analysis

Depths		Depths		Depths		Depths	
Log	True	Log	True	Log	True	Log	True
10.00	10.00	144.00	143.91	278.00	277.78	412.00	411.64
12.00	12.00	146.00	145.91	280.00	279.78	414.00	413.64
14.00	14.00	148.00	147.91	282.00	281.78	416.00	415.64
16.00	16.00	150.00	149.91	284.00	283.78	418.00	417.64
18.00	18.00	152.00	151.91	286.00	285.78	420.00	419.64
20.00	20.00	154.00	153.91	288.00	287.78	422.00	421.64
22.00	22.00	156.00	155.91	290.00	289.78	424.00	423.64
24.00	24.00	158.00	157.91	292.00	291.78	426.00	425.64
26.00	26.00	160.00	159.91	294.00	293.78	428.00	427.64
28.00	28.00	162.00	161.91	296.00	295.78	430.00	429.64
30.00	30.00	164.00	163.91	298.00	297.78	432.00	431.64
32.00	32.00	166.00	165.91	300.00	299.78	434.00	433.64
34.00	34.00	168.00	167.91	302.00	301.78	436.00	435.64
36.00	36.00	170.00	169.91	304.00	303.78	438.00	437.64
38.00	38.00	172.00	171.91	306.00	305.78	440.00	439.64
40.00	40.00	174.00	173.91	308.00	307.78	442.00	441.64
42.00	42.00	176.00	175.91	310.00	309.78	444.00	443.64
44.00	44.00	178.00	177.91	312.00	311.78	446.00	445.64
46.00	46.00	180.00	179.91	314.00	313.78	448.00	447.64
48.00	48.00	182.00	181.91	316.00	315.78	450.00	449.64
50.00	50.00	184.00	183.91	318.00	317.78	452.00	451.64
52.00	51.99	186.00	185.91	320.00	319.78	454.00	453.64
54.00	53.99	188.00	187.91	322.00	321.78	456.00	455.64
56.00	55.99	190.00	189.91	324.00	323.78	458.00	457.64
58.00	57.99	192.00	191.91	326.00	325.78	460.00	459.64
60.00	59.99	194.00	193.91	328.00	327.78	462.00	461.64
62.00	61.99	196.00	195.91	330.00	329.78	464.00	463.64
64.00	63.99	198.00	197.91	332.00	331.78	466.00	465.64
66.00	65.99	200.00	199.91	334.00	333.78	468.00	467.64
68.00	67.99	202.00	201.91	336.00	335.78	470.00	469.64
70.00	69.99	204.00	203.91	338.00	337.78	472.00	471.64
72.00	71.99	206.00	205.91	340.00	339.78	474.00	473.64
74.00	73.98	208.00	207.91	342.00	341.78	476.00	475.64
76.00	75.98	210.00	209.91	344.00	343.78	478.00	477.64
78.00	77.98	212.00	211.91	346.00	345.78	480.00	479.64
79.90	79.88	214.00	213.91	348.00	347.78	482.00	481.64
81.90	81.88	216.00	215.91	350.00	349.78	484.00	483.64
83.90	83.87	218.00	217.91	352.00	351.78	486.00	485.64
85.90	85.87	220.00	219.91	354.00	353.78	488.00	487.64
87.90	87.87	222.00	221.91				
89.90	89.87	224.00	223.91				
91.90	91.86	226.00	225.91				
93.90	93.86	228.00	227.91				
95.90	95.86	230.00	229.91				
97.90	97.86	232.00	231.91				
99.90	99.86	234.00	233.91				
101.90	101.86	236.00	235.91				
103.90	103.86	238.00	237.91				
105.90	105.85	240.00	239.91				
107.90	107.85	242.00	241.91				
109.90	109.85	244.00	243.91				
110.90	110.84	246.00	245.91				
112.90	112.84	248.00	247.91				
114.90	114.84	250.00	249.91				
116.90	116.83	252.00	251.91				
118.90	118.83	254.00	253.91				
120.90	120.83	256.00	255.91				
124.90	124.81	258.00	257.91				
126.90	126.81	260.00	259.91				
128.90	128.81	262.00	261.91				
130.90	130.80	264.00	263.91				
132.90	132.80	266.00	265.91				
134.90	134.80	268.00	267.91				
136.90	136.80	270.00	269.91				
138.90	138.80	272.00	271.91				
140.90	140.80	274.00	273.91				
142.90	141.80	276.00	275.91				

Vertical Scale 1:2000
Horizontal Scale 1:20

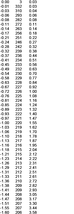
Log Depth

Correction For True Depth

3D Borehole Deviation

All figures are True Depths / displacements in metres.
Vertical Section Plane
Last Plotted Depth 354.00

Plot With Respect to True North
Declination 18.7 deg East



Final Borehole Position
The last plotted depth is at
0.00 metres North
-10.67 metres West
or 21.52 metres from the origin
203 deg from True North

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-018
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

LSD | SEC | TWP | RGE | Other Services

Licence Number
Permanent Datum: GL, Elevation: NA metres
Log Measured From: GROUND LEVEL above Permanent Datum
Drilling Measured From: GL

Elevations: KB: GL: metres

Run Number	Depth Driller	Depth Logger	Bottom Logged Interval	Top Logged Interval	Casing Driller	Casing Logger	Bit Size	Type Fluid in Hole	Density / Viscosity	pH / Fluid Loss	Source of Sample	Rm @ Measured Temp	Rmf @ Measured Temp	Rmc @ Measured Temp	Source: Rmf / Rmc	Rm @ BHT	Time Since Circulation	Max Recorded Temp	Equipment Name	Equipment Number	Recorded By	Witnessed By
1	82.00	81.59	81.59	0.00	23.00	23.00	200	WATER											RR	11596	C. LEONARD	O.CULLINGHAM
GL-JUL-2009	metres	metres	metres	metres	metres	metres	metres															

BOREHOLE RECORD

Last Edited: 03-JUL-2009 19:12

Bit Size millimetres	Depth From metres	Depth To metres
106.500	0.00	23.00
104.000	23.00	63.00
102.600	63.00	75.20
101.000	75.20	81.59

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	106.500	0.00	23.00	14.14

REMARKS

COORDINATES:
NORTHING:
5485200

EASTING:
362500

TOOL RUNS:
RR5,DD6,NN2,SONIC,DIPVERT,SCANNER

BORE WALL COND. : GOOD
BORE HOLE COND. : GOOD

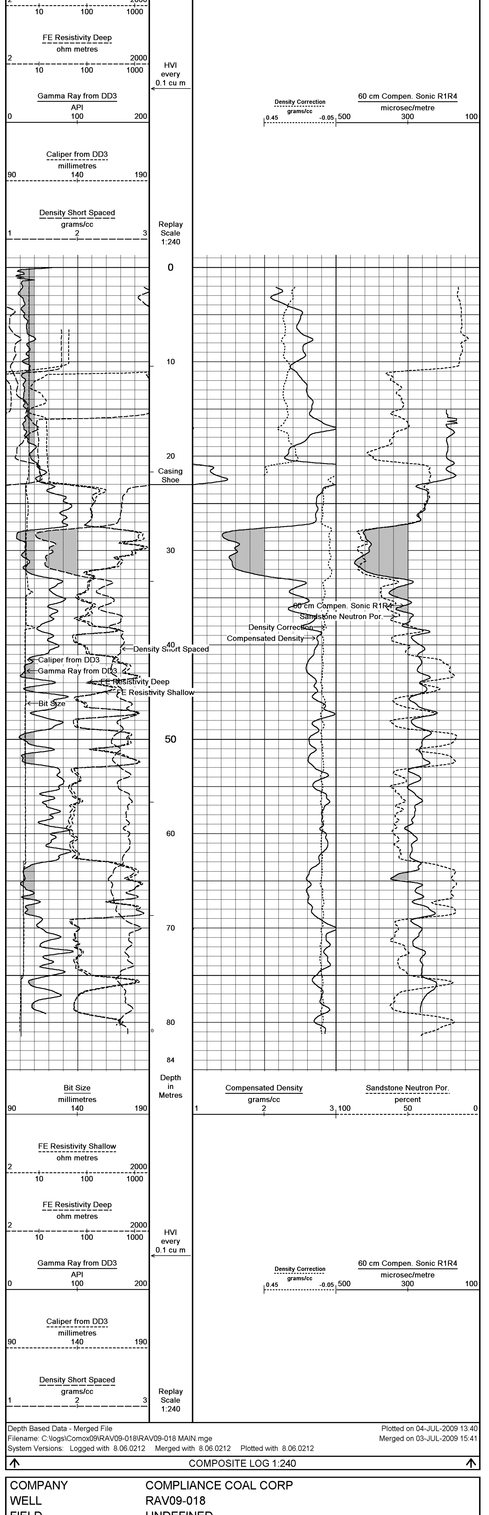
NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made byany of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

COMPOSITE LOG 1:240

Depth Based Data - Merged File — Plotted on 04-JUL-2009 13:40
Filename: C:\logs\Comox09\RAV09-018\RAV09-018 MAIN.mge — Merged on 03-JUL-2009 15:41
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212



Depth Based Data - Merged File — Plotted on 04-JUL-2009 13:40
Filename: C:\logs\Comox09\RAV09-018\RAV09-018 MAIN.mge — Merged on 03-JUL-2009 15:41
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-018
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	81.59	metres
Elevation Drill Floor	metres	Depth Driller	82.00	metres
Elevation Ground Level	metres	Depth Logger	81.59	metres

Weatherford

COMPOSITE COAL LOG

COMPANY: COMPLIANCE COAL CORP
WELL: BRUCE 1-24
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

Weatherford

COAL LITHOLOGY
GAMMA RAY CALIPER
COAL DETAIL ZONES

BOREHOLE RECORD

Log Date: 05-JUL-2008 16:15

Bit Size (mm)	Depth From (m)	Depth To (m)
311.00	0.00	15.00
152.400	15.00	31.00
152.400	31.00	51.00

CASING RECORD

Type	Size (mm)	Depth (m)	Bit Size (mm)	Weight (kg/m)
Surface	244.50	15.00	311.00	59.53

REMARKS

CLEARWATER
CALPUL
CALWELL

SAFFRO
BRUCE
DOVE

FOOL RUNS
RUN NO. ONE:GAMMA CALIPER SCANNER

RUN NO. TWO:
RUN NO. FOUR: COAL - DOVE

DATA TO DENA WELL

WELL WAS CLOSED AT NOON ON TIME

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our standard terms and conditions as set forth in our current price schedule.

MAIN LOG 1:240

Log Date: 05-JUL-2008 Run No: ONE Depth Unit: M
Time in: 11:00 Time out: 16:00 Depth in: 0.00 Depth out: 51.00
Source: Incoming - Weatherford - Calgary Date: 5-JUL-2008 Time: 16:15 Product: p-N 3.30.0312 Platform: C:\logs\CoalLogs\BRUCE\BRUCE-DOVE\BRUCE-DOVE.BRW
Plotted on 05-JUL-2008 11:01
Merged on 05-JUL-2008 11:01

Bit Size (mm) 152.400 311.00 — Caliper Bit Size (mm) — Depth Scale 1:240
Gamma Ray from DDS (API) 0 150 — Hole Deviation (degrees) 0 90 — Caliper from DDS (mm) 152.400 311.00
Compensated Density (g/cm3) 1.20 2.80 — Density Correction (g/cm3) -0.45 0.45
Density Short Spaced (g/cm3) 1.20 2.80

REPEAT SECTION

Log Date: 05-JUL-2008 Run No: ONE Depth Unit: M
Time in: 11:00 Time out: 16:00 Depth in: 15.00 Depth out: 31.00
Source: Incoming - Weatherford - Calgary Date: 5-JUL-2008 Time: 16:15 Product: p-N 3.30.0312 Platform: C:\logs\CoalLogs\BRUCE\BRUCE-DOVE\BRUCE-DOVE.BRW
Plotted on 05-JUL-2008 11:01
Merged on 05-JUL-2008 11:01

Bit Size (mm) 152.400 311.00 — Caliper Bit Size (mm) — Depth Scale 1:240
Gamma Ray from DDS (API) 0 150 — Hole Deviation (degrees) 0 90 — Caliper from DDS (mm) 152.400 311.00
Compensated Density (g/cm3) 1.20 2.80 — Density Correction (g/cm3) -0.45 0.45
Density Short Spaced (g/cm3) 1.20 2.80

COAL DETAIL 1:20

Log Date: 05-JUL-2008 Run No: ONE Depth Unit: M
Time in: 11:00 Time out: 16:00 Depth in: 25.00 Depth out: 31.00
Source: Incoming - Weatherford - Calgary Date: 5-JUL-2008 Time: 16:15 Product: p-N 3.30.0312 Platform: C:\logs\CoalLogs\BRUCE\BRUCE-DOVE\BRUCE-DOVE.BRW
Plotted on 05-JUL-2008 11:01
Merged on 05-JUL-2008 11:01

Bit Size (mm) 152.400 311.00 — Caliper Bit Size (mm) — Depth Scale 1:20
Gamma Ray from DDS (API) 0 150 — Hole Deviation (degrees) 0 90 — Caliper from DDS (mm) 152.400 311.00
Compensated Density (g/cm3) 1.20 2.80 — Density Correction (g/cm3) -0.45 0.45
Density Short Spaced (g/cm3) 1.20 2.80

COAL DETAIL 1:20

BEFORE SURVEY CALIBRATION

Log Date: 05-JUL-2008 Run No: ONE Depth Unit: M
Time in: 11:00 Time out: 16:00 Depth in: 25.00 Depth out: 31.00
Source: Incoming - Weatherford - Calgary Date: 5-JUL-2008 Time: 16:15 Product: p-N 3.30.0312 Platform: C:\logs\CoalLogs\BRUCE\BRUCE-DOVE\BRUCE-DOVE.BRW
Plotted on 05-JUL-2008 11:01
Merged on 05-JUL-2008 11:01

Bit Size (mm) 152.400 311.00 — Caliper Bit Size (mm) — Depth Scale 1:20
Gamma Ray from DDS (API) 0 150 — Hole Deviation (degrees) 0 90 — Caliper from DDS (mm) 152.400 311.00
Compensated Density (g/cm3) 1.20 2.80 — Density Correction (g/cm3) -0.45 0.45
Density Short Spaced (g/cm3) 1.20 2.80

Gamma Calibration Section

Log Date: 05-JUL-2008 Run No: ONE Depth Unit: M
Time in: 11:00 Time out: 16:00 Depth in: 25.00 Depth out: 31.00
Source: Incoming - Weatherford - Calgary Date: 5-JUL-2008 Time: 16:15 Product: p-N 3.30.0312 Platform: C:\logs\CoalLogs\BRUCE\BRUCE-DOVE\BRUCE-DOVE.BRW
Plotted on 05-JUL-2008 11:01
Merged on 05-JUL-2008 11:01

General Parameters
Log Number 1
Run Number 1
Depth Unit M
Drill Method Rotary
Mud Type Water
Borehole Condition Fair
Hole Diameter 152.400 mm
Casing Diameter 244.500 mm
Casing Weight 59.530 kg/m
Casing Depth 15.000 m
Casing Fluid Air
Fluid Level Dry
Max Temp 0.0 °C
Max Deviation 0.00 °
Logging Company CWC
Operating Rig Number 1
Truck Number 1
Logging Unit Number 1
Logging Unit Location Calgary
Recorded By Brian Lee
Witnessed By Ken Ryan

Gamma Calibration: 06-SEP-2007

Background	Measured (API)	Calibrated (API)
Reference 1	0.00	0.00
Reference 2	0.00	0.00
Reference 3	0.00	0.00

Density Calibration: 06-SEP-2007

Base Calibration on 05-JUL-2008 09:32
Field Check on

Background	Measured	Calibrated (kg/m3)
Reference 1	1.00	1.00
Reference 2	2.00	2.00
Reference 3	3.00	3.00

Density Calibration: 06-SEP-2007

Base Calibration on 05-JUL-2008 09:32
Field Check on

Background	Measured	Calibrated (kg/m3)
Reference 1	1.00	1.00
Reference 2	2.00	2.00
Reference 3	3.00	3.00

Density Calibration: 06-SEP-2007

Base Calibration on 05-JUL-2008 09:32
Field Calibration on

Background	Measured	Calibrated (kg/m3)
Reading 1	1.00	1.00
Reading 2	2.00	2.00
Reading

DIPMETER ANALYSIS

COMPLIANCE COAL CORP
RAV09-018
UNDEFINED
BRITISH COLUMBIA
CANADA

Operator	Weatherford Canada Partnership
Operating Unit	Weatherford Canada Partnership
Field	UNDEFINED
Well	RAV09-018
Company	COMPLIANCE COAL CORP
Date	2009.09.12
Time	11:00
Log Number	1
Logging Engineer	Dave Stevens
Witnessed by	Mr. Ken Kuzmarski, Mr. Jim Kuzmarski
Equipment	2.25 in Slim Hole Dipmeter, Serial # 2009-DIP-0001
Tool Configuration	2.25 in Slim Hole Dipmeter, Serial # 2009-DIP-0001
Calibration Date	2009.09.12
Calibration Location	Weatherford Canada Partnership, 2009-09-12
Calibration Operator	Dave Stevens
Calibration Witnessed by	Mr. Ken Kuzmarski, Mr. Jim Kuzmarski
Calibration Method	Pad Calibration
Calibration Source	Weatherford Canada Partnership, 2009-09-12
Calibration Type	Pad Calibration
Calibration Comments	Pad Calibration
Log Type	Dipmeter
Log Mode	Pad
Log Direction	Up
Log Quality	Good
Log Comments	Pad Calibration
Log Start Depth	0.00 metres
Log Stop Depth	0.00 metres
Log Interval	0.00 metres
Log Start Time	2009.09.12 11:00
Log Stop Time	2009.09.12 11:00
Log Duration	0.00 hours

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-018
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Ground Level	metres
Elevation Kelly Bushing	metres
Elevation Drill Floor	metres
Elevation Casing Flange	metres
Depth Datum	KB
Depth Reference	Ground Level
Log Measured From	0.00 metres above Depth Datum
Drilling Measured From	0.00 metres above Depth Datum
Date Logged	2009-07-31
Run Number	1
Depth Driller	240.00 metres
Depth Logger	240.00 metres
Bottom Log Interval	240.00 metres
Top Log Interval	0.00 metres
Casing Driller	0.00 metres
Casing Logger	0.00 metres
Bit Size	140.00 millimetres
Drilling Fluid Type	Water Level Switch
Drilling Fluid Density	0.000 kg/m³
Drilling Fluid Viscosity	0.000 mPa.s
Drilling Fluid Pressure	0.000 kPa
Drilling Fluid Resistivity	0.000 ohm-metres
Drilling Fluid Temperature	20.000 degrees C
Drilling Fluid Source	Water Level Switch
Drilling Fluid PH	7.000
Rig Type	CONTRACTOR
Rig Number	1
Recorded By	D. Bowman
Witnessed By	Mr. Bob Bowman
Equipment Number	1
Equipment Location	Ravenscrag
Equipment Type	Mobile Laboratory
Equipment Serial Number	1
Equipment Manufacturer	Geologger
Equipment Model	Geologger
Equipment Software Version	1.0
Equipment Software Date	2009-07-31
Equipment Software Name	Geologger
Equipment Software Type	Logging
Equipment Software Comment	Geologger Version 1.0
Equipment Software Checksum	0
Equipment Software Checksum Method	Simple Addition
Equipment Software Checksum Length	0
Equipment Software Checksum Start	0
Equipment Software Checksum Stop	0
Equipment Software Checksum Value	0
Equipment Software Checksum Valid	Yes
Equipment Software Checksum Comment	Checksum Not Calculated
Equipment Calibration Date	2009-07-31
Equipment Calibration Time	00:00:00
Equipment Calibration Comment	Calibrated at Geologger
Equipment Calibration Method	Factory
Equipment Calibration Standard	Factory
Equipment Calibration Operator	Factory
Equipment Calibration Serial Number	Factory
Equipment Calibration Software Version	Factory
Equipment Calibration Software Checksum	Factory
Equipment Calibration Software Checksum Method	Factory
Equipment Calibration Software Checksum Length	Factory
Equipment Calibration Software Checksum Start	Factory
Equipment Calibration Software Checksum Stop	Factory
Equipment Calibration Software Checksum Value	Factory
Equipment Calibration Software Checksum Valid	Factory
Equipment Calibration Software Checksum Comment	Factory
Equipment Calibration Comment	Factory
Equipment Calibration Operator	Factory
Equipment Calibration Standard	Factory
Equipment Calibration Method

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-018
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

LSD	SEC	TWP	RGE

Licence Number

Other Services

Permanent Datum: GL, Elevation NA metres
Log Measured From GROUND LEVEL above Permanent Datum
Drilling Measured From: GL

Elevations: KB, DF, GL — metres

Run Number	1	
Date	03-JUL-2009	
Depth Driller	82.00	metres
Depth Logger	81.59	metres
First Reading	81.59	metres
Last Reading	0.00	metres
Casing Driller	23.00	metres
Casing Logger	23.00	
Bit Size	101.600	
Hole Fluid Type	WATER	
Fluid Density		
PH / Fluid Loss		
Sample Source		
Rm @ Measured Temp		
Rmf @ Measured Temp		
Rmc @ Measured Temp		
Source Rmf / Rmc		
Rm @ BHT		
Time Since Circulation		
Max Recorded Temp		
Equipment / Base		
Equipment / Number		
Recorded By	11536	
Witnessed By	C. LEONARD / O.COLLINGHAM	RGR

BOREHOLE RECORD

Last Edited: 03-JUL-2009 19:12

Bit Size millimetres	Depth From metres	Depth To metres
106.500	0.00	23.00
104.000	23.00	63.00
102.600	63.00	75.20
101.000	75.20	81.59

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	106.500	0.00	23.00	14.14

REMARKS

COORDINATES:
NORTHING:
5485200

EASTING:
362500

TOOL RUNS:
RR5,DD6,NN2,SONIC,DIPVERT,SCANNER

BORE WALL COND. : GOOD
BORE HOLE COND. : GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

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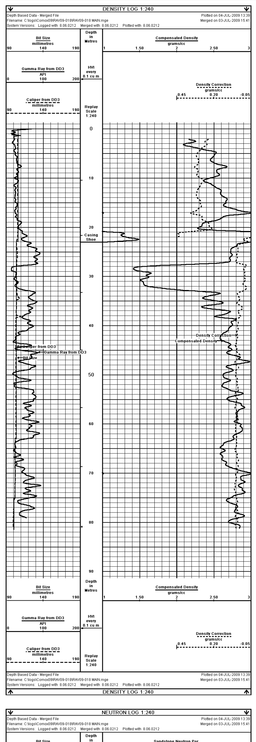
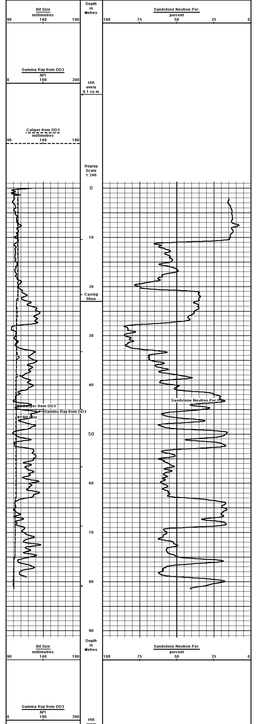


DENSITY LOG 1:240 — MAIN



NEUTRON LOG 1:240 — MAIN

Elevation Kelly Bushing	metres	First Reading	81.59	metres
Elevation Drill Floor	metres	Depth Driller	82.00	metres
Elevation Ground Level	metres	Depth Logger	81.59	metres

MINI PLOT

Weatherford®

WELL SERVICES
WESTERN ATLAS (CANADA) LIMITED
GAMMA RAY, CALIPER, NEUTRON SONIC DETAIL ZONES

BOREHOLE RECORD			
Run No.	One	Depth Driller	Logged Interval: 01-JUL-2006 00:1
Date	01-JUL-2006	Depth Logged	1.5 m
Time Circ.	00:00	Top Log Int.	0.0 m
Max. Rec. Temp.	0 deg C	Bottom Log Int.	1.5 m
Equip. Location	0 km	Type Fluid	Air

CASING RECORD				
Type	Size (mm) (inches)	Weight (kg/m) (lb/ft)	Grade	Depth (m) (ft)
Casing	152.4 6.000	0.00 0.00	Steel	0.0 0.0

REMARKS

CONTRACTOR:
WATSON
RIG:
LOCATION:
SECTION:
TOWN:
TOTAL DEPTH:
DRILLING METHOD: DIPOSIT SCRAWER
BORE WELL CODE: 02/03
BORE WELL NO: 02/03
LEGAL SURVEY:
FIELD:
WELL WAS CLOSED SYNID ALONE

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MAIN LOG 1.5M

Log0 Depth Clear - Merge1Pts
Log1 Depth Clear - Merge1Pts 00-0-0000-00-0-0-0

60CM COMPENSATED SONIC

COMPLIANCE COAL CORP
RAV09-018
UNDEFINED
BRITISH COLUMBIA
CANADA

Weather Conditions	Cloudy
Measured From	Top of Casing
Direction of Measurement	Horizontal
Production Method	Rotary
Hole Condition	Good
Water Conditions	Dry

Date	03-JUL-2009
Time	13:11
Max. Logged Depth	15.00 m
Depth Logged	15.00 m
Depth Logged By	Weatherford
Depth Controlled By	Weatherford
Total Depth (Driller)	15.00 m
Depth Reference	Ground Level
Depth Scale	Continuous Recording
Logging Company	Weatherford
Logging Equipment	60CM COMPENSATED SONIC
Logging Unit Number	1
Logging Witnessed By	-

BOREHOLE RECORD

Last Edited: 03-JUL-2009 13:11

Bit Size millimeters	Depth From meters	Depth To meters
152.400	0.00	15.00
139.700	15.00	63.00
152.400	63.00	75.20
139.700	75.20	92.00

CASING RECORD

Type	Size millimeters	Depth From meters	Shoe Depth meters	Weight kg/m
	139.700	0.00	27.00	19.14

REMARKS

COORDINATES:
GRID:
GRID2:
DATUM:

TOOL RUNS:
WALSON MK3 SONIC,DIPVISRT SCANNER

BORE WALL COND - GOOD
BORE HOLE COND - GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

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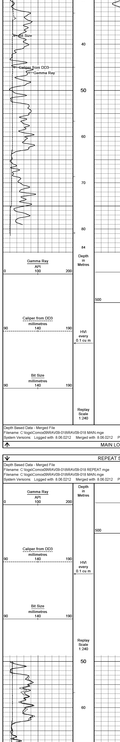
MAIN LOG 1:240

Depth Speed Data - Merged File
Filename: C:\logsCom\sonic\RAV09-018\RAV09-018-SR1.MAIN.logs
System Versions: Logged with 8.58.0212 Merged with 8.58.0212 Printed with 8.58.0212

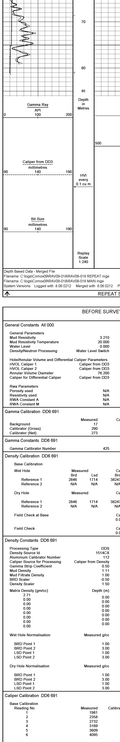
Printed on 04-JUL-2009 11:39
Merged on 03-JUL-2009 15:45



REPEAT SECTION

Depth Speed Data - Merged File
Filename: C:\logsCom\sonic\RAV09-018\RAV09-018-SR1.REPEAT.logs
Filename: C:\logsCom\sonic\RAV09-018\RAV09-018-SR1.MAIN.logs
System Versions: Logged with 8.58.0212 Merged with 8.58.0212 Printed with 8.58.0212

Printed on 04-JUL-2009 11:39
Merged on 03-JUL-2009 15:45
Merged on 03-JUL-2009 15:45



BEFORE SURVEY CALIBRATION

C:\logsCom\sonic\RAV09-018\DCS-031-M.dat

Last Edited on 03-JUL-2009 09:33

General Constants: All 000			
General Parameters			
Mud Resistivity	3.210	ohm-metres	
Mud Acoustic Temperature	20.000	degrees C	
Mud Density	0.000	metres	
Density/Neutron Processing	Water Level Gamma		
Hole/Sondes Volume and Differential Caliper Parameters			
Hole Volume Calibrator	0.000	mm	
HVCL Caliper 2	Caliper from DDS		
Annular Volume Diameter	76.200	mm	
Caliper for Differential Caliper	Caliper from DDS		
Raw Parameters			
Density Source	N/A		
Resistivity source	N/A		
RMA Constant A	N/A		
RMA Constant B	N/A		

Field Calibration on 03-JUL-2009,09:32

Gamma Calibration: DDB 691	Measured	Calibrated (API)
Background	17	27
Calibrator (Green)	290	893
Calibrator (Red)	370	436

Last Edited on 21-MAY-2009,10:49

Gamma Constants: DDB 691	
Gamma Calibration Number	425

Base Calibration on 03-JUL-2009,09:32
Field Check on

Density Calibration: DDB 691				
Base Calibration				
Well Hole	Measured		Calibrated (units)	
	2646	1714	2646	2502
Reference 1	2646	1714	2646	2502
Reference 2	N/A	N/A	N/A	N/A
Dry Hole	Measured		Calibrated (units)	
Reference 1	2646	1714	2646	2502
Reference 2	N/A	N/A	N/A	N/A
Field Check at Base			Calibrated (units)	
			0.0	0.0
Field Check			Calibrated (units)	
			0.0	0.0

Density Constants: DDB 691		
Processing Type	DDS	
Density Source #	1014C8	
Density Calibration Number	1	
Caliper Source for Processing	Caliper from Density	
Sandstone Strip Coefficient	0.51	
Mud Density	2.00	grams
Mud Filtrate Density	2.00	grams
Density Scale Factor	1.00	
Density Scaler	1.50	
Matrix Density (grams)	Depth (m)	Density
	2.71	0.00
	2.71	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00

Field Calibration on 03-JUL-2009,09:33

Wet Hole Normalization	Measured g/cc	Calibrated g/cc
	1.00	1.00
BRD Point 1	1.00	1.00
BRD Point 2	3.00	3.00
LSD Point 1	1.00	1.00
LSD Point 2	3.00	3.00
Dry Hole Normalization	Measured g/cc	Calibrated g/cc
	1.00	1.00
BRD Point 1	1.00	1.00
BRD Point 2	3.00	3.00
LSD Point 1	1.00	1.00
LSD Point 2	3.00	3.00

Base Calibration on 03-JUL-2009,09:33
Field Calibration on

Caliper Calibration: DDB 691		
Base Calibration		
Reading No	Measured	Calibration Size (mm)
1	1714	152.400
2	2502	191.00
3	2732	127.00
4	1714	152.400
5	2502	191.00
6	2646	203.20
Field Calibration		
	Measured Caliper (mm)	Actual Caliper (mm)
	139.700	139.700

Last Edited on 09-JUL-2009,10:39

Sonic Constants: MK2 SW	
Maximum Boreholes Contrast	500.000 micro-secs/m
Fast Transit Time	620.00 micro-secs/m
Limestone Transit Time	155.84 micro-secs/m
Sandstone Transit Time	182.00 micro-secs/m
Dolomite Transit Time	152.72 micro-secs/m
Sonic Source Type	STC,A-60 sm Compensated Sonic Source
Sonic Receiver Type	MC3A,2K sensitivity
UT-0 Constant	1522.00 MPS
Transmitter Delay	0.00 microsecs
Transmitter-Receiver 1 Offset	24.00 inches
Transmitter-Receiver 2 Offset	36.00 inches
Transmitter-Receiver 3 Offset	60.00 inches
Transmitter-Receiver 4 Offset	48.00 inches

Field Calibration on 03-JUL-2009,09:38

Gamma Calibration: NHZ 560	Measured	Calibrated (API)
Background	17	27
Calibrator (Green)	277	893
Calibrator (Red)	377	436

Last Edited on 21-MAY-2009 10:07

Gamma Constants: NHZ 560	
Gamma Calibration Number	425

Base Calibration on 03-JUL-2009,09:38

Neutron Calibration: NHZ 560				
Base Calibration				
Reading	Short		Long	
	Measured	Calibrated	Measured	Calibrated
1	344	1040	81	236
2	0	0	0	0

Last Edited on 17-JUN-2009,18:32

Neutron Constants: NHZ 560	
Neutron Source Id	7245NK
Formula Equation Type	3-Curve, 1-Capture

Field Calibration on 03-JUL-2009,09:57

FE Calibration: RR5 544				
	Measured		Calibrated (units,m)	
	Shallow	Deep	Shallow	Deep
Reference 1	4490.0	4490.0	1.4	1.4
Reference 2	3922.0	3906.0	2158.0	1918.0

Last Edited on 17-JUN-2009,10:48

FE Constants: RR5 544	
Hi Constant PEW1 (deep / shallow)	2.100
Hi Constant PEW2 (deep / shallow)	2.400

Field Calibration on 03-JUL-2009,09:58

Gamma Calibration: RR5 544	Measured	Calibrated (API)
Background	17	25
Calibrator (Green)	290	893
Calibrator (Red)	374	436

Last Edited on 21-MAY-2009,10:41

Gamma Constants: RR5 544	
Gamma Calibration Number	425

Last Edited on 03-JUL-2009,09:58

Resistivity Tool Constants: RR5 544	
Sonde Model	FE Mode
Resistivity Sonde Tool (mm)	1016.00

Elevation Kelly Bushing	metres
Elevation Grd Floor	metres
Permanent Datum	metres
Depth Log From	metres
Depth Log To	metres
Depth Log Scale	1:240
Depth Log Type	Continuous Recording
Depth Log Direction	Down
Depth Log Speed	8.1 cm/min
Depth Log Witnessed By	-
Depth Log Reference	Ground Level
Depth Log Measured From	Top of Casing
Depth Log Offset	0.00 m
Depth Log Comments	-

Fluid Reading	01:00 metres
Depth Driller	02:00 metres
Depth Logger	01:00 metres

Weatherford

60CM COMPENSATED SONIC

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-019
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Reference	Ground Level	Final Reading	386.00 metres
Elevation Ground	386.00 metres	Depth Driller	386.00 metres
Elevation Kelly Bushing	metres	Depth Logger	384.20 metres
Elevation Ground Level	metres		

Weatherford

COMPOSITE COAL LOG

COMPOSITE COAL LOG

COMPLIANCE COAL CORP
RAV09-019
UNDEFINED
BRITISH COLUMBIA
CANADA

Depth Scale Factor	Date	Time	Description
1:240	09 JUL 2009	12:47	Logging Complete
1:240	09 JUL 2009	23:00	Depth Scale Factor Changed
1:240	10 JUL 2009	12:00	Logging Resumed
1:240	10 JUL 2009	12:00	Depth Scale Factor Changed
1:240	10 JUL 2009	12:00	Logging Complete

BOREHOLE RECORD

Bit Size millimetres	Depth From metres	Depth To metres	Last Edited: 9-JUL-2009 12:47 Depth To metres
151.000	0.00	0.00	0.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre

REMARKS

COORDINATES
Utmzone
NAD83

CAPTAIN
Mike Ryan

TOOL RUNS
MRR, GDK, MRT, TEMP, SONIC

BORE WALL CONDI MEDIUM
BORE HOLE CONDI GOOD

NON FLOWING WELL

WELL WAS LEFT STAND ALONE

SONIC LOG COMPROMISED DUE TO AIR IN WELL . STOPPED LOGGING AT 55M

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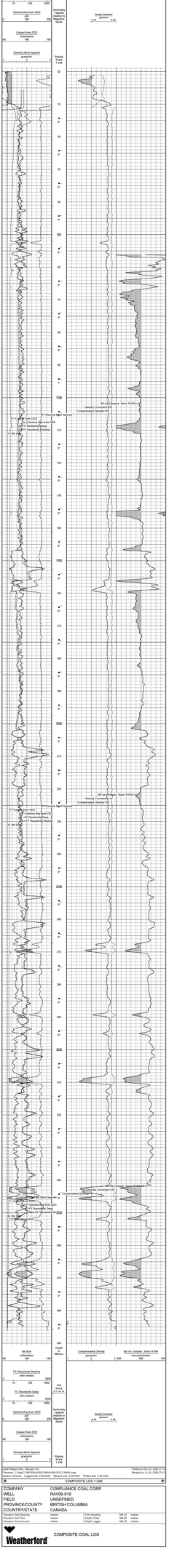
COMPOSITE LOG 1:240

Depth Based Data - Merged File
Source: C:\Input\CAN\Canada\BC\RAV09-019\RAV09-019 CD MRN.mge
System Versions: Logged with: 6.06 D240 Merged with: 6.06 D240 Plotted with: 6.06 D240

Plotted on 09-JUL-2009 01:10
Merged on 9-JUL-2009 23:00



Depth Based Data - Merged File
Source: C:\Input\CAN\Canada\BC\RAV09-019\RAV09-019 CD MRN.mge
System Versions: Logged with: 6.06 D240 Merged with: 6.06 D240 Plotted with: 6.06 D240

Plotted on 09-JUL-2009 01:10
Merged on 9-JUL-2009 23:00

Weatherford

Weatherford Canada Partnership
Calgary, Alberta
Canada

Well: 100/06-29-048-09W5/00
Lat: 53.2000000 Long: -114.8000000
Surface Location: 100/06-29-048-09W5/00
Project: Pembina

Depth Reference: KB 0.0 m above Perm Datum
Elevation: 0.0 m Perm Datum
Log Date: 14-Jun-2011
Log Time: 00:00 (24 hr)
Run Number: 1
Drilling Fluid: Water
Logging Company: Weatherford

Depth Scale: 1:240

Log Header Scan

Log Type	Log Run	Top (m)	Bottom (m)	Hole Size (mm)
GAMMA RAY	1	0.0	1.0	0.0

Comments

Log Header Scan

Log Header Scan

**Log Header Scan

COMPANY	COMPLIANCE COIL CORP
WELL	16-08-095-22W5
FIELD	UNDERWOOD
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Service Order Number	0000000
Service Order Date	2006-12-01
Weatherford Job Number	0000000
Weatherford Job Date	2006-12-01
Operator	0000000
Rig Number	0000000
Spud Date	00-00-0000
Total Depth	00-00-0000
Drilling Fluid Type	0000000
Depth Reference	0000000
Elevation	0000000
Permanent Datum	0000000
Log Measured From	0000000
Drilling Measured From	0000000
Casing Driller	0000000
Casing Logger	0000000
Bottom Log Interval	0000000
Top Log Interval	0000000
Casing Fluid Type	0000000
Casing Fluid Density	0000000
Casing Fluid Level	0000000
Bottom Hole Temperature	0000000
Max Recorded Temperature	0000000
Equipment Number	0000000
Location	0000000
Recorded By	0000000
Witnessed By	0000000

DUAL FOCUSED ELECTRIC
GAMMA RAY - CALIPER

Weatherford

DUAL FOCUSED ELECTRIC
GAMMA RAY - CALIPER

Service Order	0000000	Date	2006-12-01
Weatherford Job Number	0000000	Date	2006-12-01
Operator	0000000	Rig Number	0000000
Spud Date	00-00-0000	Total Depth	00-00-0000
Drilling Fluid Type	0000000	Depth Reference	0000000
Elevation	0000000	Permanent Datum	0000000
Log Measured From	0000000	Drilling Measured From	0000000
Casing Driller	0000000	Casing Logger	0000000
Bottom Log Interval	0000000	Top Log Interval	0000000
Casing Fluid Type	0000000	Casing Fluid Density	0000000
Casing Fluid Level	0000000	Bottom Hole Temperature	0000000
Max Recorded Temperature	0000000	Equipment Number	0000000
Location	0000000	Recorded By	0000000
Witnessed By	0000000		

BUNGUCE RECORD

Bit Size	Casing Size	Weight	Grade	Top	Bottom
00.000	00.000	00.00		0000	0000

CASING RECORD

Bit Size	Casing Size	Weight	Grade	Top	Bottom
00.000	00.000	00.00		0000	0000

LAYOUT: 2.00 in, 1:200 (1:1) Vertical Scale, 1:1 Horizontal Scale

REMARKS

CLOSED BOX
CLEAN
GOOD
GOOD
Service Order:
Date: 2006-12-01
Operator:
Rig Number:
Spud Date: 00-00-0000 TMD: 3210m0
Depth Reference: KB
Elevation: 0000000
Permanent Datum: 0000000
Log Measured From: 0000000
Drilling Measured From: 0000000
Casing Driller: 0000000 @ 0000 m
Casing Logger: 0000000
Bottom Log Interval: 0000000
Top Log Interval: 0000000
Casing Fluid Type: 0000000
Casing Fluid Density: 0000000
Casing Fluid Level: 0000000
Bottom Hole Temperature: 0000000
Max Recorded Temperature: 0000000
Equipment Number: 0000000
Location: 0000000
Recorded By: 0000000
Witnessed By: 0000000
BRINE: WELL CLEAN
BRINE: WELL CLEAN
BRINE: WELL CLEAN

| | | |

WOCH COMPENSATED SONIC

Run No.	Run Date	Logged Interval (m)	Top Log Int. (m)	Bottom Log Int. (m)
00	2006/12/10	1000.0	0.0	1000.0

BOREHOLE RECORD

Bit Size (mm)	Bit From (m)	Bit To (m)
200.0	0.0	1000.0

CASING RECORD

Size (mm)	Wgt. (kg/m)	Grade	Top Depth (m)	Bottom Depth (m)
244.5	59.5	J55	0.0	1000.0

Last Calibr. 9-JUL-2006 Cleared: yes
Last Job 0 Started 10-DEC-06 Ended 10-DEC-06

REMARKS

LOGGING FOR:
SUNCOR
ENERGY
INC.

TOOL TYPE:
SONIC SONDE
SERIAL NO.: 1008 SONIC
SERIAL NO.: 1008 - 2012 9

WELL NAME:
WOCH COMPENSATED SONIC

LOGGING DATA FOR FILE 10 (MR 10 WELL - ATTAPPED LOGGING AT 1000

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MAIN LOG 1 (.2M)

Depth Scale: Metres/1m
Scanner: Length=0M/0M/0M/

BOREHOLE TEMPERATURE DIFFERENTIAL TEMPERATURE

COMPANY CODE: 0000
WELL CODE: 0000
PROJECT CODE: 0000
COUNTRY CODE: 0000
STATE CODE: 0000
COUNTY CODE: 0000
LOCATION CODE: 0000
SECTION: 00
TOWNSHIP: 00
RANGE: 00
MERIDIAN: W
LOCATION: 0000 FSL 0000 FEL
ELEVATION: 0000 KB 0000 DF 0000 GL
DATUM: 0000 ABOVE PERMANENT DATUM
LOGGED FROM: 0000 KB ABOVE PERMANENT DATUM
DATE: 00-00-0000
RUN NO: ONE
DEPTH DRILLED: 0000
DEPTH LOGGED: 0000
DEPTH CONTROL: 0000
LOGGING DISTRICT: 0000
LOGGING ENGINEER: 0000
WITNESS: 0000

BOREHOLE RECORD

Bit No	Size	Depth From	Depth To	Run No
00	00.00	0000	0000	00

Last Entry: 0-JUL-2005 12:00
Depth: 0000
Fluid: 0000

CASING RECORD

Type	Size	Depth From	Shoe Depth	Weight
Surface	00.00	0000	0000	00.00

REMARKS

CLORDIATES
CLORIDES
SAMPLE
SAMPLE
SAMPLE

TYPE FLUID:
WPS: 0.00 , VIS: , TEMP: 00.00C

NEW WELL CONSTRUCTION
NEW WELL CONSTRUCTION

MONITORING WELL

WELL WAS COMPLETED AS A PIEZ

SCALE LOG COMPRIMISED DUE TO MR IN WELL - STOPPED LOGGING AT 189M

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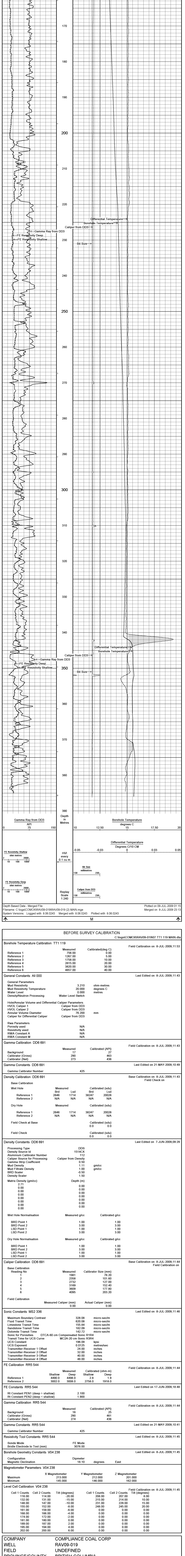
Depth Scale Factor: Metres/1:Fm
Logged Interval: 0.00m To 0.00m
Casing Interval: Logged with 0.00-0.00m
Bit Size: 00.00mm
Logged with 0.00-0.00m
Run No: ONE
Depth Reference: KB
Permanent Datum: 0000 ABOVE PERMANENT DATUM
Elevation: 0000 KB 0000 DF 0000 GL
Logged on: 0-JUL-2005 12:00
Printed on: 00-00-2005 07:00
Version: 1.1.0.0.0

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-019		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Early Soaring	metres	First Reading	385.20 metres
Elevation Grd Floor	metres	Depth Driller	385.50 metres
Elevation Ground Level	metres	Depth Logger	385.20 metres

VERTICALITY ANALYSIS

COMPANY COMPLIANCE COAL CORP
WELL RAV09-019
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY CANADA

| | | |

COMPANY	COMPLIANCE COAL CORP
WELL	RAV08-019
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

COMPOSITE COAL LOG

Log Name	Date	Time	Time Since	Depth Reached	Comment
Tandem Gamma, Dual Spaced Neutron, Density, Dual Resistivity	09-JUL-2009	15:00		331.00	
Tandem Gamma, Dual Spaced Neutron, Density, Dual Resistivity	09-JUL-2009	15:00		331.00	

BOREHOLE RECORD

Bit Size millimetres	Depth From metres	Depth To metres	Last Edited: 09-JUL-2009 15:41
151.000	0.00	331.00	

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre

REMARKS

LOGGED THROUGH DRILL PIPE

STARTED LOGG @ 9PM TO AVOID SIT ASSEMBLY

MODIFIED GAMMA RAY, DENSITY, NEUTRON SCALE TO COMPENSATE FOR N-PIPE LOGGING

COORDINATES
NORTHING
346000
EASTING
640000

TOOL RUNS
DDL N52

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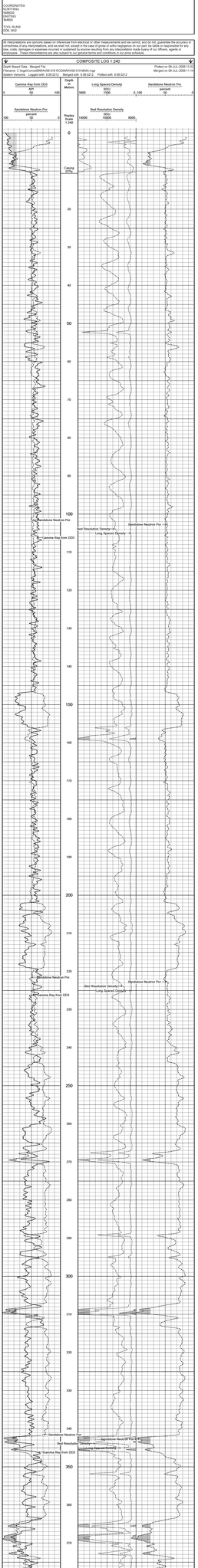
COMPOSITE LOG 1:240

Depth Based Data - Merged File: Plotted on 09-JUL-2009 13:32
Filename: C:\logs\Compliance\RAV08-019-RODBAR\08-019 MAIN.mpx Merged on 09-JUL-2009 11:14
System Versions: Logged with: 8.08.0212 Merged with: 8.08.0212 Plotted with: 8.08.0212


Gamma Ray from DC0
API
0
100
Sandstone Neutron Por
percent
50
0
Depth
in
Metres
Display
Scale
1:240
Casing
207m
Long Spaced Density
SDU
1500
0
100
Sandstone Neutron Por
percent
50
0
Bed Resolution Density
ISDU
14000
15000
6000
Sandstone Neutron Por
Bed Resolution Density
Long Spaced Density
Gamma Ray from DC0

Hunterhurd

Well Name: 100/16-16-060-16W6/00 Surface Location: 100/16-16-060-16W6/00

Licensee: HUNTERHURD ENERGY CORP.
Contractor: CANADIAN DRILLING INTERNATIONAL
Rig Number: 2
Spud Date: 2010/06/24 00:00:00
Drilling Completed: 2010/07/02 00:00:00
Suspension Date: 2010/07/02 00:00:00
Surface Coordinates: 1-16-60-16 W6M
Bottom Hole Coordinates: 1-16-60-16 W6M
Ground Elevation: 1000.00 m
Total Depth: 1000.00 m
Fluid at Total Depth: WATER
Drilling Fluid Type: WATER

Casing Strings

Type	Size	Weight	Grade	Depth
SURFACE	244.5 mm	48.3 kg/m	J55	9.00 m

Cement Jobs

Type	Date	Top	Bottom
SURFACE CASING	2010/06/24	0.00 m	9.00 m

Perforations

Type	Date	Top	Bottom
NONE PERFORATED			

Formation Tops

Formation	Depth
NONE PICKED	

Comments

DRILLING WAS SUSPENDED AT 1000 M.
SPUDDED ON 24 JUN 2010 AT 0 HOURS.
DRILLING WAS SUSPENDED ON 2 JUL 2010 AT 0 HOURS.

Drilling Operations Summary

Date	Hours	Description
2010/06/24	00:00	SPUD
2010/07/02	00:00	SUSPENDED

Deviation Survey

Depth	Angle
0.00 m	0.00
1000.00 m	0.00

Bottom Hole Location

Depth	Latitude	Longitude
0.00 m	0.000000	0.000000
1000.00 m	0.000000	0.000000

Drilling Fluids Summary

Date	Type	Density	Viscosity
2010/06/24	WATER	1000 kg/m3	1 cP
2010/07/02	WATER	1000 kg/m3	1 cP

Drilling Parameters

Date	Type	Weight	Rotary	Pump	Flow
2010/06/24	WOB	0 kN	0 rpm	0 kPa	0 L/min
2010/07/02	WOB	0 kN	0 rpm	0 kPa	0 L/min

Drill Stem Tests

Date	Type	Duration	Recovery
NONE PERFORATED			

Production Tests

Date	Type	Duration	Recovery
NONE PERFORATED			

Completion Fluids

Date	Type	Density	Viscosity
NONE PERFORATED			

Completion Parameters

Date	Type	Weight	Rotary	Pump	Flow
NONE PERFORATED					

Completion Perforations

Type	Date	Top	Bottom
NONE PERFORATED			

Completion Formation Tops

Formation	Depth
NONE PERFORATED	

Completion Stimulations

Date	Type	Volume
NONE PERFORATED		

**Completion

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-019
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

LSD	SEC	TWP	RGE	Other Services

Permanent Datum: GL, Elevation 1M metres
Log Measured From: GROUND LEVEL above Permanent Datum
Drilling Measured From: GL

Elevations: KB metres, GL metres

Run Number	1
Date	07-JUL-2009
Depth Driller	386.80 metres
Depth Logger	381.00 metres
First Reading	0.00 metres
Last Reading	0.00 metres
Casing Logger	10.60 metres
Bit Size	101.00 mm
Fluid Type	WATER
Density / Viscosity	
PH / Fluid Loss	
Rm @ Measured Temp	
Rmf @ Measured Temp	
Rmc @ Measured Temp	
Source Rmf / Rmc	
Rm @ BHT	
Max Recorded Temp	
Equipment / Base	
Equipment Name	
Witnessed By	C LEONARD, O COLLINGHAM

BOREHOLE RECORD

Last Edited: 09-JUL-2009 10:41

Bit Size millimetres	Depth From metres	Depth To metres
101.000	0.00	381.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre

REMARKS

LOGGED THROUGH DRILL PIPE.

STARTED LOGS @ 381M TO AVOID BIT ASSEMBLY.

MODIFIED GAMMA RAY, DENSITY ,NEUTRON SCALE TO COMPENSATE FOR IN PIPE LOGGING

COORDINATES:
NORTHING:
5486020
EASTING:
364800

TOOL RUNS:
DO6, NN2

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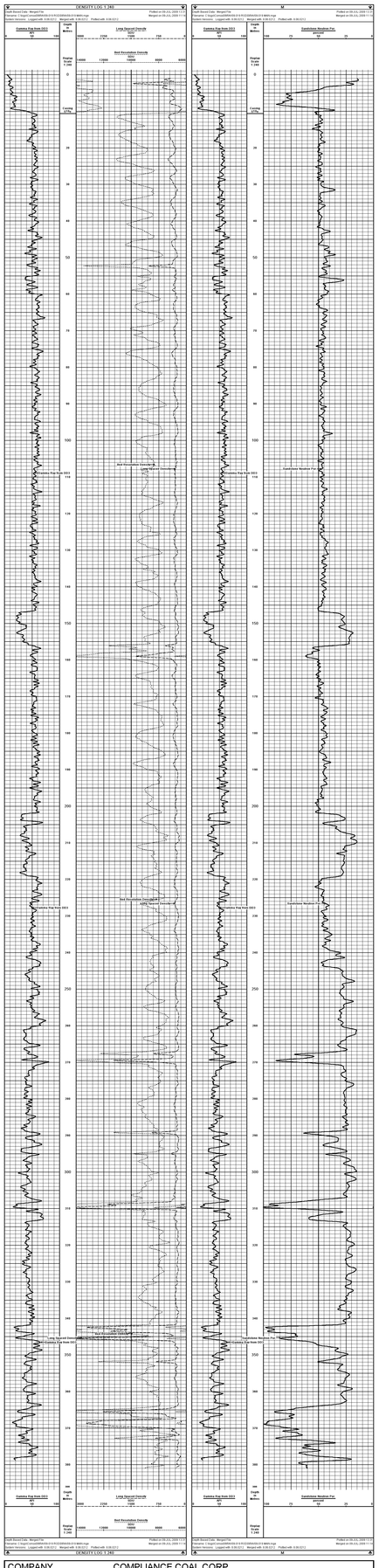


Schlumberger

Dual Induction Spherically Focused Log

Field	Well	Date	Run

Company
Well
Field
County
State
Other Services

Elevations
KB
DF
GL

Permanent Datum
Log Measured From
Drilling Measured From

Date	Run	Depth-Driller	Depth-Logger	Bottom Log Interval	Top Log Interval	Casing-Driller	Casing-Logger	Bit Size

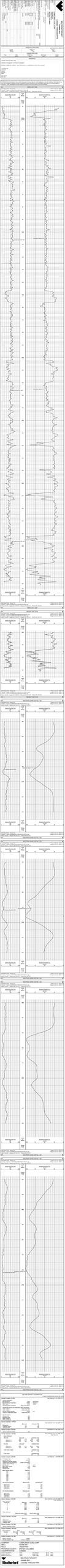
Type Fluid in Hole
Dens.
Visc.
pH
Fluid Loss
Source of Sample
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Source Rmf / Rmc
Rm @ BHT
Time Since Circ.
Max. Rec. Temp. °F
Equip. Location
Recorded By
Witnessed By

Run No.
Bit Size
Type Log
Depth-Driller
Depth-Logger
Bottom Log Interval
Top Log Interval
Casing-Driller
Casing-Logger
Bit Size
Type Fluid in Hole
Dens.
Visc.
pH
Fluid Loss
Source of Sample
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Source Rmf / Rmc
Rm @ BHT
Time Since Circ.
Max. Rec. Temp. °F
Equip. Location
Recorded By
Witnessed By

THIS LOG IS BEING RUN TO ACCOMMODATE THE INDUSTRY NEED FOR A DUAL INDUCTION SPHERICALLY FOCUSED LOG. THE ENTIRE RECORD OF THIS WELL WILL BE FOUND ON THE ATTACHED COMPUTER PROCESSED LOG.

THE INTERPRETATION OF THE RESULTS IS A MATTER OF OPINION ONLY. SCHLUMBERGER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE INTERPRETATION.

THIS REPORT IS PRODUCED BY SCHLUMBERGER WELL SERVICES FOR THE USE OF THE CUSTOMER NAMED HEREIN. THE INTERPRETATIONS CONTAINED HEREIN ARE BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND ARE OPINIONS ONLY. SCHLUMBERGER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE INTERPRETATION.


DEPTH
DEPTH
DEPTH

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-020		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	347.00 metres
Elevation Ground	metres	Depth Driller	347.00 metres
Elevation Ground Level	metres	Depth Logger	347.00 metres

Weatherford

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-020		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	347.00 metres
Elevation Ground	metres	Depth Driller	347.00 metres
Elevation Ground Level	metres	Depth Logger	347.00 metres

COMPOSITE COAL LOG

BOREHOLE RECORD

Bit Size millimetres	Depth From metres	Depth To metres	Last Entry 13-JUL-2009 00:30
159.00	0.00	225.00	
152.400	225.00	321.00	
187.000	121.00	225.00	
152.400	225.00	321.00	
146.000	225.00	321.00	

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	177.800	0.00	27.00	34.30

REMARKS

COORDINATES
NORTHING
EASTING

ZONE

TOOL RUNS
SWC,DDL,NAI,SONIC,DIP,IMRT,SCANNER

BORE WALL COND - POOR
BORE HOLE COND - GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

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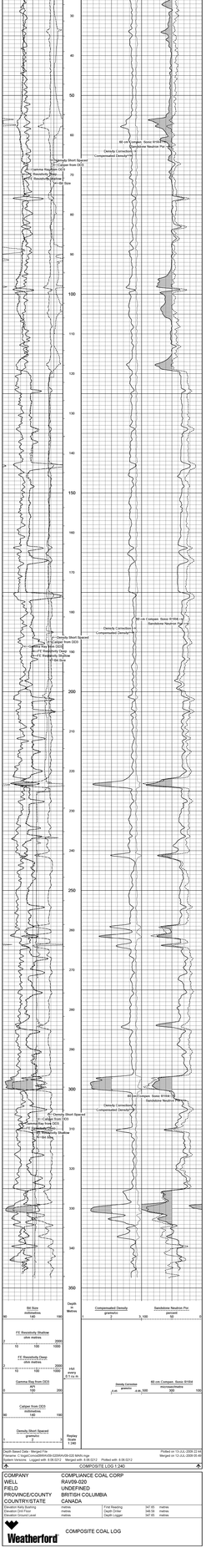
COMPOSITE LOG 1:240

Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAV09-020\RAV09-020 MWD.mgs
System Versions Logged with: 8.08.0212 Merged with: 8.08.0212 Plotted with: 8.08.0212

Plotted on 13-JUL-2009 22:40
Merged on 13-JUL-2009 22:40



Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAV09-020\RAV09-020 MWD.mgs
System Versions Logged with: 8.08.0212 Merged with: 8.08.0212 Plotted with: 8.08.0212

Plotted on 13-JUL-2009 22:40
Merged on 13-JUL-2009 22:40

COMPOSITE LOG 1:240

Hunterlad

Depth Scale 1:200

Well Name: Hunterlad

**Location: 0 - 0 - 0 -

DIPMETER ANALYSIS

COMPLIANCE COAL CORP
RAVEN-020
UNDEFINED
BRITISH COLUMBIA
CANADA

Field Reading	24° 00 metres
Depth Scale	24° 00 metres
Depth Logger	24° 00 metres

Weatherford

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN-020
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Date Logged	11-Feb-2009
Depth Reference	KB

DIPMETER ANALYSIS

BOREHOLE RECORD

Last Run: 11-Feb-2009 00:00

Bit Size	Depth From	Depth To
311.00	0.00	127.00
216.00	127.00	327.00
146.00	327.00	357.00
146.00	357.00	367.00

CASING RECORD

Type	Size	Depth From	Wire Depth	Weight
Casing	177.80	0.00	127.00	34.20

REMARKS

CLEANING/TIG
LOGGING
DRIFT
LOGGING
DRIFT
TOTAL RUN:
BRITISH BRUNO ZIPDRIFT SCANNER
BORE WELL LTD0 - 357.00
BORE WELL LTD0 - 367.00
NATURAL GAMMA RAY
WELL WAS LOCKED STAND ALONE

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WELLCO LTD0

Depth Based Data: Maximum Sampling Interval: 10.0cm
Source: C:\sgd\Compliance Coal Corp\Raven-020.dip
Source Version: Logged with 5.06.0121 Plotted with 5.06.0121

Processed on 11-Feb-2009 00:00
Plotted on 11-Feb-2009 00:00
Received on 11-Feb-2009 00:00

Gamma Ray from SGD
Depth Scale: 1:200

General Field 1
Depth: 254 — 367
Curve: GR
Scale: 0 — 200 API

Formation Dip
Scale 0.01 Inches/Ft
Dip Parameters
Depth: 254 — 367
Curve: DIP
Scale: 0 — 90

General Field 2
Depth: 254 — 367
Curve: CSN
Scale: 0 — 2000

Vertically Integrated Amplitude
Depth: 254 — 367
Curve: Vig Cnt
Scale: 0 — 2000

Rose Diagram
Jump Angle: Bottom

Bit Size
Depth: 254 — 367
Curve: CALI
Scale: 177.8 — 146

Rotation Angle
Depth: 254 — 367
Curve: ROTA
Scale: 0 — 360

Depth Shift
Depth: 254 — 367
Curve: DPTH
Scale: 254 — 367

REPEAT SECTION

Depth Based Data: Maximum Sampling Interval: 10.0cm
Source: C:\sgd\Compliance Coal Corp\Raven-020.dip
Source Version: Logged with 5.06.0121 Plotted with 5.06.0121

Processed on 11-Feb-2009 00:00
Plotted on 11-Feb-2009 00:00
Received on 11-Feb-2009 00:00

REPEAT SECTION

BEFORE SURVEY CALIBRATION

C:\sgd\Compliance Coal Corp\Raven-020\RAVEN-020DIP.DIP 2011 06 20

General Constants: All SGD
Last Edited on 11-JAN-2009 19:40

General Parameters			
Max Dip	0.125	Max vertical	0
Well Accuracy Tolerance	10.000	degrees	
Max Dip Error	0.125	Max Error	0
Generalization Processing	Water Column		
Histo/Cluster Volume and Differential Calcer Parameters			
Histo Cluster	0	Differential Calcer	0
Histo Calcer	0	General Calcer	0
Histo Volume Density	10.000		
Histo Volume Density Calcer	General Calcer		
Raw Calcer			
Pseudo Level	0		
Pseudo Level	NO		
Pseudo Level	NO		
Raw Calcer			

Bowlers Geometry Constants: VDA 247
Last Edited on 11-JUL-2009 19:40

	Diameter		
Designation	41.00	degrees	
Calibration Diameter	41.00	degrees	East

Magnetometer Parameters: VDA 247

	X Magnetometer	Y Magnetometer	Z Magnetometer
Minimum	210.000	214.000	180.000
Maximum	1000.000	1000.000	1000.000
Calibration Date	11-JAN-2009	11-JAN-2009	11-JAN-2009

Level Cell Calibration: VDA 247

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
0-0.00	0-0.00	0.00	0-0.00	0-0.00	0.00
1-0.00	1-0.00	0.00	1-0.00	1-0.00	0.00
2-0.00	2-0.00	0.00	2-0.00	2-0.00	0.00
100-00	100-00	0.00	101-00	208-00	30.00
101-00	101-00	0.00	102-00	209-00	30.00
102-00	102-00	0.00	103-00	210-00	30.00
103-00	103-00	0.00	0-0.00	0-0.00	0.00
104-00	104-00	0.00	0-0.00	0-0.00	0.00
105-00	105-00	0.00	0-0.00	0-0.00	0.00
106-00	106-00	0.00	0-0.00	0-0.00	0.00
107-00	107-00	0.00	0-0.00	0-0.00	0.00
108-00	108-00	0.00	0-0.00	0-0.00	0.00

Dipmeter Constants: SGD 426
Last Edited on 11-JUL-2009 19:40

Search Angle	45.00	degrees
Correlation Interval	0.30	metres
Correlation Window	1.00	metres
Pad Offset	0.00	metres
Pad Offset Angle	0.00	degrees

Calibration Calculation: SGD 426
Save Calculation on 11-JUL-2009 19:40

Measured X	Measured Y	Calibrate Xmin (mm)	
0	0	76.20	
252	256	76.20	
504	512	76.20	
1000	1000	76.20	
1000	1000	254.00	
1000	1000	254.00	
1000	1000	254.00	

Gamma Calibration: SGD 426
Last Edited on 11-JUL-2009 19:40

Calibrate Xmin (mm)	Calibrate Xmax (mm)	Calibrate Ymin (mm)	Calibrate Ymax (mm)
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000

Calibration Calculation: SGD 426
Save Calculation on 11-JUL-2009 19:40

Pad 1 Offset (mm)	Pad 2 Offset (mm)	Pad 3 Offset (mm)	Pad 4 Offset (mm)
0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000

Gamma Constants: SGD 426
Last Edited on 21-MAY-2009 17:00

Gamma Calibration Number 426

	Measured (API)	Calibrated (API)
Background	0.000	0.000
Calibration Unit	0.000	0.000
Calibration Unit	0.000	0.000

Gamma Constants: SGD 426
Last Edited on 21-MAY-2009 17:00

DUAL FOCUSED ELECTRIC GAMMA RAY - CALIPER

COMPLIANCE COAL CORP
RAVEN 020
UNDEFINED
BRITISH COLUMBIA
CANADA

Latitude		Elevation	
Longitude		Depth Datum	KB
Logged Interval	34.00 - Varies	Log Date	3-Oct-2006
Run Number	One	Log Time	12:00

Weatherford

BORESHOLE RECORD

Log Date: 3-Oct.-2006 (0:0)

Bit Size	Top Depth	Log Depth
152.400	32.00	32.00
152.400	32.00	32.00
152.400	32.00	32.00

CASING RECORD

Type	Size (millimetres)	Weight (kilograms/metre)	Wire Depth (m)	Weight (kilograms)
Casing	152.400	0.000	32.00	0.00

REMARKS

CORDINATES
LATITUDE
LONGITUDE
ELEVATION
DATUM
TOTAL RUNS
PROBE USED: GAMMA DIPSMITH SCANNER
PROBE SERIAL NUMBER: 0
PROBE RECD CONDI : GOOD
PROBE CALIB : GOOD
PROBE RECD CALIB : GOOD
TOTAL RECORDED
SNGL WRN (CODED) STRING ALONE

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MAIN LOG 1:240

Log Date: 3-Oct.-2006 (0:0)
Logged on: 3-Oct.-2006 (0:0)
Software: 1.Tough2 Loop2000/WIN-NT-2000-SP4-SP5-SP6
Operator: 1.Tough2 Loop2000/WIN-NT-2000-SP4-SP5-SP6
Depth Scale: 1.Tough2 Loop2000/WIN-NT-2000-SP4-SP5-SP6

Gamma Ray 0 API 150 | Caliper from 0.00 in 10.00 in | Bit Size 0.00 in 10.00 in | Gamma Ray Scale 0 API 150 | Caliper Scale 0.00 in 10.00 in | Bit Size Scale 0.00 in 10.00 in | Measured Depth Scale 1:240 (Imperial) | Measured Depth 0.00 ft 1000.00 ft

Gamma Ray
Bit Size
Caliper from 0.00 in
Caliper from 10.00 in
Measured Depth
Measured Depth Scale 1:240 (Imperial)
Gamma Ray
Bit Size
Caliper from 0.00 in
Caliper from 10.00 in
Measured Depth
Measured Depth Scale 1:240 (Imperial)
Gamma Ray
Bit Size
Caliper from 0.00 in
Caliper from 10.00 in
Measured Depth
Measured Depth Scale 1:240 (Imperial)

Log Header Data: Generated On: 3-Oct.-2006 (0:0)
Software: 1.Tough2 Loop2000/WIN-NT-2000-SP4-SP5-SP6
Depth Scale: 1.Tough2 Loop2000/WIN-NT-2000-SP4-SP5-SP6
Gamma Sensors: Logged with 4.06.0031 Merged with 5.06.0012 Polled with 3.06.0012

Produced on 10-Oct.-2006 (0:0)
Merged on 10-Oct.-2006 (0:0)
Merged on 10-Oct.-2006 (0:0)

REPEAT SECTION

Log Date: 3-Oct.-2006 (0:0)
Logged on: 3-Oct.-2006 (0:0)
Software: 1.Tough2 Loop2000/WIN-NT-2000-SP4-SP5-SP6
Operator: 1.Tough2 Loop2000/WIN-NT-2000-SP4-SP5-SP6
Depth Scale: 1.Tough2 Loop2000/WIN-NT-2000-SP4-SP5-SP6

Gamma Ray 0 API 150 | Caliper from 0.00 in 10.00 in | Bit Size 0.00 in 10.00 in | Gamma Ray Scale 0 API 150 | Caliper Scale 0.00 in 10.00 in | Bit Size Scale 0.00 in 10.00 in | Measured Depth Scale 1:240 (Imperial) | Measured Depth 0.00 ft 1000.00 ft

Gamma Ray
Bit Size
Caliper from 0.00 in
Caliper from 10.00 in
Measured Depth
Measured Depth Scale 1:240 (Imperial)
Gamma Ray
Bit Size
Caliper from 0.00 in
Caliper from 10.00 in
Measured Depth
Measured Depth Scale 1:240 (Imperial)
Gamma Ray
Bit Size
Caliper from 0.00 in
Caliper from 10.00 in
Measured Depth
Measured Depth Scale 1:240 (Imperial)

Log Header Data: Generated On: 3-Oct.-2006 (0:0)
Software: 1.Tough2 Loop2000/WIN-NT-2000-SP4-SP5-SP6
Depth Scale: 1.Tough2 Loop2000/WIN-NT-2000-SP4-SP5-SP6
Gamma Sensors: Logged with 4.06.0031 Merged with 5.06.0012 Polled with 3.06.0012

Produced on 10-Oct.-2006 (0:0)
Merged on 10-Oct.-2006 (0:0)
Merged on 10-Oct.-2006 (0:0)

BEFORE SURVEY CALIBRATION

1.Tough2 Loop2000/WIN-NT-2000-SP4-SP5-SP6

General Constants: AC 0320

Operator Number	1.110	date dummy
Best Resolution	0.100	degrees 1
Best Resolution Temperature	25.000	degrees 1
Temperature Processing	Water Logging	
Hole Diameter	152.400	mm
HGS Gamma Factor and Differential Factor	1.000	
HGS Gamma Offset	0.000	
Sensor Offset Gamma	0.000	mm
Sensor Offset Differential Caliper	0.000	mm
Pipe Parameters	N/A	
Pipe Material	N/A	
Pipe Wall Thickness	N/A	
Mass Correction %	N/A	
Density Correction	N/A	

Gamma Calibration: CDN 661

	Measured	Calibrated (API)
Background	0.000	0.000
Calibrator Value	400	400
Calibrator Count Rate	1000	1000

Field Calibration: Measured Gamma (cps) Actual Gamma (cps)
0.00 0.00

Gamma Calibration Number: 1

Field Calibration Date: 3-Oct.-2006 (0:0)

Density Calibration: CDN 661

	Measured	Calibrated (g/cc)
Reference 1	2.000	2.000
Reference 2	2.500	2.500
Reference 3	3.000	3.000

Dry Note

	Measured	Calibrated (g/cc)
Reference 1	2.000	2.000
Reference 2	2.500	2.500
Reference 3	3.000	3.000

Field Check at Base

	Measured	Calibrated (g/cc)
	2.000	2.000

Field Check

	Measured	Calibrated (g/cc)
	2.0	2.0

Density Calibration: CDN 661

Density Source	CDN
Density Source #	1014C3
Density Calibration Number	1
Calibrator Source Number	Calibrator Source Present
Mud Density	1.10 g/cc
Mud Density	1.10 g/cc
Mud Viscosity	0.00
Mud Viscosity	0.00
Matrix Density (g/cc)	Depth (m)
	0.00 0.00
	0.00 0.00
	0.00 0.00
	0.00 0.00
	0.00 0.00

Bit Note Normalization

	Measured g/cc	Calibrated g/cc
BIT Point 1	1.00	1.00
BIT Point 2	1.50	1.50
BIT Point 3	2.00	2.00

Dry Note Normalization

	Measured g/cc	Calibrated g/cc
BIT Point 1	1.00	1.00
BIT Point 2	1.50	1.50
BIT Point 3	2.00	2.00

Calibration Date: 3-Oct.-2006 (0:0)

Base Calibration Number: 1
Field Calibration: 0

Base Calibration: CDN 661

Hearing Test	Measured	Calibration Data (cps)
0	0.000	0.000
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000

Field Calibration

	Measured	Calibration Data (cps)	Actual Calibration (cps)
	0.00	0.00	0.00

Density Calibration Number: 1

Density Calibration Date: 3-Oct.-2006 (0:0)

Density Calibration: NRG 544

Reference 1 Offset	320.00	micro-seconds
Reference 2 Offset	320.00	micro-seconds
Calibration Transit Time	152.00	micro-seconds
Calibration Offset	0.00	micro-seconds
Density Factor	0.000	
Density Temperature	25.00	degrees C
Density Calibration Date	3-Oct.-2006 (0:0)	
CCS Constant	1012.000	
Density Source	CDN	Calibration
Transmitter Receiver 1 Offset	0.00	inches
Transmitter Receiver 2 Offset	0.00	inches
Transmitter Receiver 3 Offset	0.00	inches
Transmitter Receiver 4 Offset	0.00	inches

Density Calibration: NRG 544

Field Calibration at 11 JUL 2006 (0:0)

Density Calibration: NRG 544

Field Calibration at 11 JUL 2006 (0:0)

Neutron Calibration: NRG 560

	Measured	Calibrated (cps)
Background	0.000	0.000
Calibrator Value	0.000	0.000
Calibrator Count	0.000	0.000

Neutron Calibration Date: 3-Oct.-2006 (0:0)

Neutron Calibration: NRG 544

Field Calibration at 11 JUL 2006 (0:0)

Neutron Source 1: Neutron Source 2: Neutron Source 3: 0.0 cps, 0.0 counts

Neutron Source Calibration: NRG 544

Field Calibration at 11 JUL 2006 (0:0)

Neutron Source Calibration Date: 3-Oct.-2006 (0:0)

Neutron Calibration: NRG 544

	Measured	Calibrated (cps)
Background	0.000	0.000
Calibrator Value	0.000	0.000
Calibrator Count	0.000	0.000

Neutron Calibration Date: 3-Oct.-2006 (0:0)

Neutron Calibration: NRG 544

Field Calibration at 11 JUL 2006 (0:0)

Neutron Source Calibration: NRG 544

Field Calibration at 11 JUL 2006 (0:0)

Neutron Source Calibration Date: 3-Oct.-2006 (0:0)

Neutron Test Constants: NRG 544

Neutron Source	10 Mcurie
Neutron Source Date	1-Jan.-2000

Neutron Calibration: NRG 544

Neutron Calibration Date: 3-Oct.-2006 (0:0)

Neutron Test Constants

COMPANY COMPLIANCE COAL CORP
WELL RAV08-020
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

MINI PLOT

Log	Run	Date	Description
GAMMA RAY	1	12-Jul-09	Gamma Ray
DENSITY	1	12-Jul-09	Density
NEUTRON	1	12-Jul-09	Neutron
DIPMETER	1	12-Jul-09	Dipmeter
SONIC	1	12-Jul-09	Sonic

Logging Company: Weatherford Canada Partnership
Logging Equipment: Slim Hole Wireline Logging Tools
Logging Witnessed by: Mr. Dwayne Lindsay
Logging Engineer: Mr. Dwayne Lindsay
Logging Truck: 5004
Logging Date: 12-Jul-09
Logging Time: 12:00 AM
Logging Depth: 571.50 m
Logging Speed: 30 m/min
Logging Direction: Out
Logging Mode: Normal
Logging Unit Number: 1
Logging Unit Location: Edmonton
Max Temperature: 21 deg. C
Max Deviation: 0 deg.
Bit Size: 152 mm
Casing Driller: 139.7 mm @ 0 m
Casing Logger: 139.7 mm @ 175.50 m
Bottom Logged Interval: 571.50 m
Top Logged Interval: 175.50 m
Drilling Fluid Type: WATER
Drilling Fluid Sample Taken: No
Drilling Fluid Viscosity: 0 cp
Drilling Fluid Density: 0 g/cc
Drilling Fluid pH: 0
Drilling Fluid Resistivity: 0 ohm-m
Drilling Fluid Filtrate: 0 cc
Drilling Fluid Filtrate Resistivity: 0 ohm-m
Drilling Fluid Resistivity Temp: 0 deg. C
Drilling Fluid Source: Unknown
Rig Type: Other
Rig Name: Unknown
Rig Number: 0
Rig Contractor: Unknown
Witnessed By: Mr. Dwayne Lindsay
Recorded By: Mr. Dwayne Lindsay
Operator: Mr. Dwayne Lindsay
Logging Company: Weatherford Canada Partnership
Logging Equipment: Slim Hole Wireline Logging Tools
Logging Witnessed by: Mr. Dwayne Lindsay
Logging Engineer: Mr. Dwayne Lindsay
Logging Truck: 5004
Logging Date: 12-Jul-09
Logging Time: 12:00 AM
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Logging Direction: Out
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Logging Unit Location: Edmonton
Max Temperature: 21 deg. C
Max Deviation: 0 deg.
Bit Size: 152 mm
Casing Driller: 139.7 mm @ 0 m
Casing Logger: 139.7 mm @ 175.50 m
Bottom Logged Interval: 571.50 m
Top Logged Interval: 175.50 m
Drilling Fluid Type: WATER
Drilling Fluid Sample Taken: No
Drilling Fluid Viscosity: 0 cp
Drilling Fluid Density: 0 g/cc
Drilling Fluid pH: 0
Drilling Fluid Resistivity: 0 ohm-m
Drilling Fluid Filtrate: 0 cc
Drilling Fluid Filtrate Resistivity: 0 ohm-m
Drilling Fluid Resistivity Temp: 0 deg. C
Drilling Fluid Source: Unknown
Rig Type: Other
Rig Name: Unknown
Rig Number: 0
Rig Contractor: Unknown
Witnessed By: Mr. Dwayne Lindsay
Recorded By: Mr. Dwayne Lindsay
Operator: Mr. Dwayne Lindsay

BOREHOLE RECORD

Last Edited: 12-JUL-2009 05:54

Bit Size (mm)	Depth From (m)	Depth To (m)
152.400	0.00	175.50
152.400	121.92	228.50
152.400	228.50	571.50
152.400	175.50	571.50
	0.00	347.85

CASING RECORD

Type	Size (diameter)	Depth From (m)	Shoe Depth (m)	Weight (kg/m)
	177.800	0.00	2.00	25.30

REMARKS

COORDINATES
NAD 83
NAAD83

DATING
GAMMA

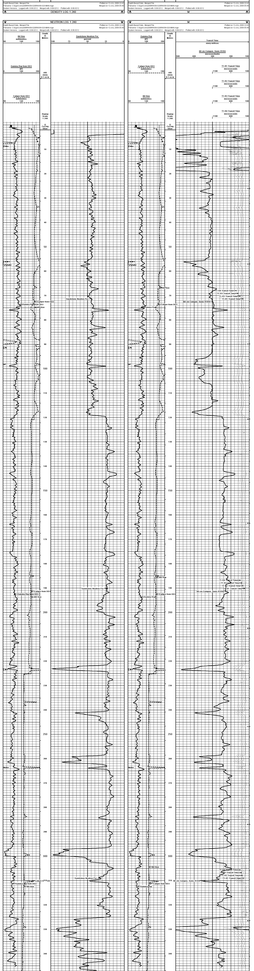
TOOL RUNS
WELLSONIC/NG SONIC,DIPMETER,SCANNER

BORE WALL COND - POOR
BORE HOLE COND - GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

Any interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.



COMPANY	COMPLIANCE COAL CORP
WELL	RAV08-020
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing: metres	First Reading 347.85 metres
Elevation Ground Level: metres	Last Reading 347.85 metres
	Depth Logged 347.85 metres

Weatherford

MINI PLOT

Schlumberger

Well Name: Ivanhoe 1-10

Field: Ivanhoe

County: Sheridan

State: Montana

API Number: 25-33-0

Location: 1-10

Date: 10-Jun-2011

Company: Ivanhoe Energy

Run	Logging Date	Logging Time	Depth Driller	Depth Logger	Bottom Log Interval	Top Log Interval	Casing Size	Casing Depth	Bit Size
1	10-Jun-2011	18:00	1000	1000	1000	0	8 5/8	0	7 7/8

Equipment Used:

Logging Unit: 5000

Logging Engineer: Jim Hoffman

Witnessed by: Mr. Jim Hoffman

Recorded by: Mr. Jim Hoffman

Operator: Mr. Jim Hoffman

Logging Unit Location: Sidney

Truck Number: 5000

Logging Unit Number: 5000

Logging Unit Number: 5000

Logging Unit

NGDC COMPENSATED SONIC

COMPANY	COMPLIANCE COAL CORP
WELL	RIVER 020
FIELD	UNDEFINED
COUNTY/PROVINCE	BRITISH COLUMBIA
COUNTRY	CANADA

Weatherford

NGDC COMPENSATED SONIC

BOREHOLE RECORD

Log Interval: 10.0-1,000.0ft

Bit Size	Depth From	Depth To
115.000	10.00	12.00
115.000	12.00	1,000.00
115.000	1,000.00	1,000.00

CASING RECORD

Type	Size	Weight	Grade	Depth
Surface	115.000			12.00

REMARKS

COMPANY FILE
DATUM
ZERO
ELEVATION
TOTAL DEPTH
DRILLING CONTRACTOR / EQUIPMENT
DATE
RUN NUMBER
CASING
CASING SHOE
DRILLER'S DESCRIPTION OF FINAL BLOW

Compensated sonic log recorded in Weatherford Wireline Services of Alberta's compensated sonic sond. Sond generated the sonic log. Recordings of the measurements, and the sond, are recorded in the order of pulse or echo reaches receiver or not. Sond is not responsible for any interpretation, opinion, or information contained in this report. Sond makes no warranty or guarantee as to the accuracy of the data.

MAIN LOG 1 of 2

Well Name: Type: Weight/Vol:
Source: Logged: 2-Oct-2012 Recorded: 2-Oct-2012 Run: 1 Depth Unit: M:Ft:0.3048
Sonic Source: Logged: 2-Oct-2012 Recorded: 2-Oct-2012 Run: 1 Depth Unit: M:Ft:0.3048

Depth Scale 1:200 — Sonic Transit Time (usec/ft) 140 — 40 — Cable Tension (lbf) 1000 — 0 — Bit Size (inches) 16 — 6 — Hole Diameter (inches) 16 — 6 — Caliper Data (inches) 16 — 6 — Gamma Ray (API units) 0 — 100 — Sonic Transit Time (usec/ft) 140 — 40 — Sonic Transit Time (usec/ft) 140 — 40 — Sonic Transit Time (usec/ft) 140 — 40

VERTICALITY ANALYSIS

COMPANY: COMPLIANCE COAL CORP
WELL: RAV09-020
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

Weatherford

BOREHOLE RECORD

Last Edited: 13-JUL-2009 21:37

Bit Size diameter	Casing diameter	Depth
175.300	0.00	121.00
175.300	114.300	121.00
168.500	226.00	321.00
168.200	244.500	347.00

CASING RECORD

Type	Size diameter	Depth From	Shoe Depth	Weight kg/m
	114.300	0.00	2.00	25.30

REMARKS

COORDINATES
NORTHING
(MARS)

EASTING
(MARS)

LOG TRACK
WELLSEA/WELSONIC,DIPMETER,SCANNER

BORE WALL COND - POOR
BORE WALL CONG - GOOD

NON FLOWING WELL

WELL MAN LOGGED STAND ALONE

Verticality Analysis Interpretation Notes

13-JUL-2009 22:12

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:10000(horizontal) and 1:4000(depth), and the minimum 1:1.

The analysis is derived by integrating 10m sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metre/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects. Such effects are usually evident in the form of sudden or erratic changes in verticality. So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
ASAN COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

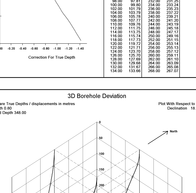
C:\logsCom\weld09\RAV09-020\CMP-A28-347.98.dw

Kb Co-ordinates With Respect To True North, all depths in metres
First Depth : 0.60, 0.00 North, 0.00 East of Origin

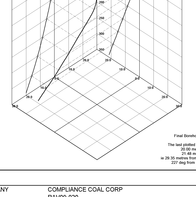
Date Processed : 13-JUL-2009
Date Logged : 12-JUL-2009

DEPTH		BOREHOLE		ANAL COORDS		POLAR	
Log	True	Tilt	Azi	North	East	Dsp	Radius
2.00	2.00	0.3	258.6	-0.01	0.00	174	0.01
4.00	4.00	0.4	227.7	-0.03	0.01	207	0.04
6.00	6.00	0.3	227.2	-0.05	-0.02	207	0.05
8.00	8.00	0.4	207.6	-0.07	-0.05	206	0.08
10.00	10.00	0.4	224.6	-0.10	-0.06	214	0.12
12.00	12.00	1.0	224.6	-0.15	-0.09	212	0.17
14.00	14.00	1.0	224.6	-0.21	-0.13	212	0.25
16.00	16.00	1.0	233.9	-0.17	-0.14	219	0.23
18.00	18.00	0.9	242.2	-0.13	-0.15	229	0.20
20.00	20.00	1.0	242.2	-0.10	-0.16	242	0.19
24.00	24.00	1.5	242.2	-0.07	-0.25	224	0.31
26.00	26.00	2.0	242.2	-0.05	-0.32	224	0.40
28.00	28.00	2.1	238.5	-0.06	-0.38	225	0.47
30.00	29.99	2.1	244.4	-0.06	-0.40	227	0.55
32.00	31.99	2.1	244.4	-0.05	-0.42	229	0.61
34.00	33.99	2.1	244.4	-0.46	-0.28	229	0.70
36.00	35.99	2.6	244.4	-0.50	-0.60	230	0.75
38.00	37.99	2.6	244.4	-0.55	-0.79	230	0.82
38.00	37.99	2.7	245.1	-0.60	-0.78	232	0.87
42.00	41.98	3.3	250.1	-0.65	-0.95	233	1.07
44.00	43.98	3.3	250.1	-0.69	-1.04	234	1.16
46.00	45.98	3.3	250.1	-0.75	-1.13	235	1.26
48.00	47.98	3.3	250.1	-0.80	-1.22	236	1.36
50.00	49.97	3.3	251.7	-0.84	-1.30	237	1.42
52.00	51.97	3.5	251.7	-0.89	-1.39	238	1.52
54.00	53.97	3.7	251.7	-0.94	-1.49	239	1.63
56.00	55.96	4.0	258.0	-0.99	-1.60	239	1.91
58.00	57.96	4.3	258.0	-1.04	-1.73	239	2.19
60.00	59.95	4.5	258.0	-1.11	-1.86	239	2.51
62.00	61.94	4.5	248.8	-1.18	-2.01	240	2.33
64.00	63.94	4.5	248.8	-1.25	-2.16	240	2.15
66.00	65.93	4.5	248.8	-1.32	-2.31	240	2.00
68.00	67.92	4.5	258.6	-1.40	-2.42	240	2.60
70.00	69.91	4.5	258.6	-1.47	-2.53	240	2.80
72.00	71.91	4.5	258.6	-1.53	-2.65	240	3.00
74.00	73.90	4.7	248.3	-1.64	-2.85	240	3.29
76.00	75.89	4.9	248.3	-1.76	-3.05	240	3.58
78.00	77.88	4.9	248.1	-1.87	-3.26	240	3.87
80.00	79.88	5.1	245.8	-1.99	-3.29	240	3.85
82.00	81.87	5.1	245.8	-2.12	-3.33	240	3.83
84.00	83.86	5.1	245.8	-2.07	-3.46	240	4.14
86.00	85.86	5.1	250.1	-2.15	-3.75	240	4.53
88.00	87.85	5.1	250.1	-2.23	-3.84	240	4.69
90.00	89.84	5.1	250.1	-2.31	-3.93	240	4.85
92.00	91.83	4.9	260.8	-2.42	-4.01	240	4.93
94.00	93.82	4.9	260.8	-2.52	-4.08	240	5.00
96.00	95.82	4.9	260.8	-2.62	-4.15	240	5.07
98.00	97.81	4.9	247.1	-2.79	-4.60	240	5.55
100.00	99.80	4.9	247.1	-2.96	-5.05	240	6.03
102.00	101.79	4.9	247.1	-3.13	-5.50	240	6.51
104.00	103.78	5.2	242.6	-3.07	-5.25	240	6.08
106.00	105.77	5.2	242.6	-3.01	-5.00	240	5.65
108.00	107.76	5.2	242.6	-3.27	-5.44	240	6.34
112.00	111.75	5.3	242.6	-3.37	-5.69	239	6.62
114.00	113.74	5.3	242.6	-3.47	-5.94	239	6.91
116.00	115.73	5.3	242.6	-3.58	-6.19	239	7.19
118.00	117.73	5.3	245.2	-3.69	-6.13	239	7.16
120.00	119.72	5.3	245.2	-3.80	-6.07	239	7.13
122.00	121.71	5.3	245.2	-3.90	-6.02	239	7.10
124.00	123.70	5.2	240.0	-4.01	-6.17	239	7.75
126.00	125.69	5.2	240.0	-4.12	-6.32	239	8.40
128.00	127.68	5.2	240.0	-4.23	-6.47	239	9.05
130.00	129.68	5.3	240.0	-4.35	-7.00	239	8.24
132.00	131.67	5.3	240.0	-4.46	-7.53	239	7.43
134.00	133.66	5.3	239.1	-4.57	-7.26	239	8.60
136.00	135.65	5.4	239.1	-4.69	-7.44	239	8.78
138.00	137.64	5.4	239.1	-4.80	-7.62	239	8.96
140.00	139.63	5.4	239.1	-4.92	-7.81	239	9.15
142.00	141.62	5.4	241.6	-5.03	-7.99	239	9.33
144.00	143.61	5.4	241.6	-5.15	-8.17	239	9.51
146.00	145.60	5.4	241.6	-5.26	-8.35	239	9.69
150.00	149.59	5.1	238.6	-5.51	-8.42	237	10.06
152.00	151.58	5.1	238.6	-5.63	-8.49	237	10.24
154.00	153.57	5.1	238.6	-5.75	-8.56	237	10.42
156.00	155.57	5.1	238.4	-5.86	-8.64	237	10.59
158.00	157.56	5.1	238.4	-5.98	-8.71	237	10.77
160.00	159.55	5.1	238.4	-6.09	-8.78	237	10.95
162.00	161.54	5.1	240.5	-6.20	-8.85	236	11.09
164.00	163.53	5.1	240.5	-6.31	-8.92	236	11.24
166.00	165.52	5.1	240.5	-6.42	-8.99	236	11.38
168.00	167.52	5.4	241.8	-6.55	-9.60	236	11.62
170.00	169.51	5.4	241.8	-6.68	-9.21	236	11.86
172.00	171.50	5.4	241.8	-6.77	-9.41	236	11.96
174.00	173.50	5.4	241.1	-6.88	-10.02	236	12.16
176.00	175.49	5.4	241.1	-7.00	-10.63	236	12.36
178.00	177.48	5.4	241.1	-7.11	-10.84	236	12.56
180.00	179.48	5.1	240.6	-7.22	-10.44	235	12.77
182.00	181.47	5.1	240.6	-7.33	-10.05	235	12.97
184.00	183.46	5.1	240.6	-7.45	-9.65	235	13.17
186.00	185.45	5.0	232.5	-7.56	-9.26	235	13.37
188.00	187.45	5.0	232.5	-7.70	-10.00	235	13.59
190.00	189.44	5.0	232.5	-7.84	-10.74	235	13.81
192.00	191.43	5.2	235.1	-7.96	-11.47	235	14.03
194.00	193.42	5.2	235.1	-8.09	-12.14	234	15.01
196.00	195.41	5.2	235.1	-8.22	-12.81	234	15.99
198.00	197.41	5.3	235.4	-8.35	-13.48	234	14.25
200.00	199.40	5.6	237.1	-8.43	-11.74	234	14.46
202.00	201.39	5.6	237.1	-8.51	-10.00	234	14.67
204.00	203.38	5.6	237.1	-8.59	-8.26	234	14.88
206.00	205.37	5.4	236.2	-8.62	-12.14	234	15.01
208.00	207.36	5.4	236.2	-8.65	-16.02	234	15.14
210.00	209.35	5.4	236.2	-8.68	-19.90	234	15.26
212.00	211.34	5.3	236.6	-8.71	-13.55	234	15.57
214.00	213.33	5.3	236.6	-8.74	-7.20	234	15.88
216.00	215.32	5.3	236.6	-8.77	-0.85	234	15.96
218.00	217.31	5.6	238.8	-8.81	-12.99	235	16.15
220.00	219.30	5.6	238.8	-8.85	-25.13	235	16.34
222.00	221.29	5.6	238.8	-8.89	-37.27	235	16.53
224.00	223.28	5.6	238.5	-10.03	-13.42	233	16.75
226.00	225.27	5.6	238.5	-11.17	-10.57	233	16.97
228.00	227.26	5.6	238.5	-12.31	-7.72	233	17.13
230.00	229.25	5.4	237.1	-13.45	-4.87	233	17.29
232.00	231.25	5.4	237.1	-10.59	-13.94	233	17.51
234.00	233.24	5.4	237.1	-7.73	-23.01	233	17.73
236.00	235.23	5.7	232.2	-10.87	-14.34	232	18.08
238.00	237.22	5.7	232.2	-11.01	-14.34	232	18.08
240.00	239.21	5.7	232.2	-11.15	-14.34	232	18.08
242.00	241.20	5.6	236.3	-11.29	-12.35	233	18.61
244.00	243.19	5.6	236.3	-11.45	-14.72	232	18.85
246.00	245.18	5.6	236.3	-11.61	-17.09	232	19.09
248.00	247.17	5.6	236.3	-11.77	-19.46	232	19.33
250.00	249.16	5.8	238.4	-11.90	-15.11	232	19.23
252.00	251.15	5.8	238.4	-12.03	-10.76	232	19.13
254.00	253.14	5.8	238.4	-12.16	-6.41	232	19.03
256.00	255.13	5.9	239.7	-12.35	-13.50	231	19.91
258.00	257.12	5.9	239.7	-12.54	-20.59	231	20.79
260.00	259.11	5.9	239.7	-12.66	-27.68	231	21.67
261.90	261.10	6.0	231.1	-12.81	-15.99	231	20.41
263.90	263.09	6.0	231.1	-12.96	-4.30	231	19.15
265.90	265.08	6.0	231.1	-13.10	-12.61	231	20.62
267.90	267.06	6.0	230.7	-13.26	-19.29	231	21.41
269.90	269.05	6.0	230.7	-13.42	-25.97	231	22.20
271.90	271.04	6.0	230.7	-13.58	-32.65	231	21.42
273.90	273.03	6.1	227.6	-13.92	-18.93	230	21.84
275.90	275.02	6.1	227.6	-14.26	-5.21	230	22.26
277.90	277.01	6.1	227.6	-14.60	-8.51	230	22.35
279.90	278.99	6.2	229.9	-14.41	-17.29	230	22.52
281.90	280.98	6.2	229.9	-14.22	-26.07	230	22.69
283.90	282.97	6.2	229.9	-14.03	-34.85	230	22.86
285.90	284.96	6.1	228.1	-14.52	-17.70	230	23.15
287.90	286.95	6.1	228.1	-15.01	-0.55	230	23.44
289.90	288.94	6.1	228.1	-15.50	-16.40	230	23.73
294.00	293.91	6.0	224.9	-15.42	-18.15	230	23.76
296.00	295.90	6.0	224.9	-15.34	-19.90	230	23.79
298.00	297.89	6.0	224.9	-15.26	-21.65	230	23.82
300.00	299.87	7.4	228.6	-15.99	-18.55	229	24.46
302.00	301.86	7.4	228.6	-16.72	-15.45	229	25.10
304.00	303.84	6.5	228.4	-16.56	-18.65	229	24.57
306.00	305.83	6.5	228.4	-16.39	-21.85	229	24.04
308.00	307.82	6.5	228.4	-16.23	-25.05	229	23.51
310.00	309.81	6.5	229.2	-16.07	-18.96	229	25.87
312.00	311.79	6.5	229.2	-15.74	-12.87	229	25.93
314.00	313.78	6.5	229.2	-15.41	-6.78	229	26.00
316.00	315.77	6.5	229.2	-15.08	-0.69	229	26.06
318.00	317.76	6.7	222.2	-15.39	-13.39	229	26.76
320.00	319.73	6.7	222.2	-15.69	-26.09	229	26.76
322.00	321.71	6.7	222.2	-15.99	-38.79	229	26.76
324.00	323.69	7.0	226.0	-16.42	-20.29	228	27.41
326.00	325.68	7.0	226.0	-16.85	-1.79	228	27.41
328.00	327.66	7.0	226.0	-17.28	-16.71	228	27.41
330.00	329.64	6.2	224.9	-16.95	-20.60	228	28.20
332.00	331.63	6.2	224.9	-16.62	-24.49	228	28.99
334.00	333.61	6.2	224.9	-16.29	-28.38	228	29.78
336.00	335.60	6.7	225.7	-16.47	-21.09	227	28.70
338.00	337.58	6.7	225.7	-16.65	-13.80	227	27.62
340.00	339.57	6.7	225.7	-16.83	-6.51	227	26.54
342.00	341.56	6.0	225.9	-16.95	-10.26	227	27.46
344.00	343.56	6.0	225.9	-17.06	-14.01	227	28.38
346.00	345.55	6.0	225.9	-17.18	-17.76	227	29.30

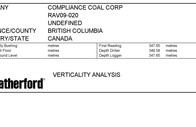
Cross Section



Vertical Sections



Depth Correction Analysis



Depths		Depths		Depths	
Log	True	Log	True	Log	True
2.00	2.00	98.00	97.81	194.00	193.33
4.00	4.00	100.00	99.80	196.00	195.32
6.00	6.00	102.00	101.79	198.00	197.31
8.00	8.00	104.00	103.78	200.00	199.30
10.00	10.00	106.00	105.77	202.00	201.29
12.00	12.00	108.00	107.76	204.00	203.28
14.00	14.00	112.00	111.75	206.00	205.27
16.00	16.00	114.00	113.74	208.00	207.26
18.00	18.00	116.00	115.73	210.00	209.25
20.00	20.00	118.00	117.73	212.00	211.25
24.00	24.00	120.00	119.72	214.00	213.24
26.00	26.00	122.00	121.71	216.00	215.23
28.00	28.00	124.00	123.70	218.00	217.22
30.00	29.99	126.00	125.69	220.00	219.21
32.00	31.99	128.00	127.68	222.00	221.20
34.00	33.99	130.00	129.68	224.00	223.19
36.00	35.99	132.00	131.67	226.00	225.18
38.00	37.99	134.00	133.66	228.00	227.17
38.00	37.99	136.00	135.65	230.00	229.16
42.00	41.98	138.00	137.64	232.00	231.15
44.00	43.98	140.00	139.63	234.00	233.14
46.00	45.98	142.00	141.62	236.00	235.13
48.00	47.98	144.00	143.61	238.00	237.12
50.00	49.97	146.00	145.60	240.00	239.11
52.00	51.97	150.00	149.59	242.00	241.10
54.00	53.97	152.00	151.58	244.00	243.09
56.00	55.96	154.00	153.57	246.00	245.08
58.00	57.96	156.00	155.57	248.00	247.07
60.00	59.95	158.00	157.56	250.00	249.06
62.00	61.94	160.00	159.55	252.00	251.05
64.00	63.94	162.00	161.54	254.00	253.04
66.00	65.93	164.00	163.53	256.00	255.03
68.00	67.92	166.00	165.52	258.00	257.02
70.00	69.91	168.00	167.52	260.00	259.01
72.00	71.91	170.00	169.51	261.90	261.10
74.00	73.90	172.00	171.50	263.90	263.09
76.00	75.89	174.00	173.50	265.90	265.08
78.00	77.88	176.00	175.49	267.90	267.06
80.00	79.88	178.00	177.48	269.90	269.05
82.00	81.87	180.00	179.48	273.90	273.03
84.00	83.86	182.00	181.47	275.90	275.02
86.00	85.86	184.00	183.46	277.90	277.01
88.00	87.85	186.00	185.45	279.90	278.99
90.00	89.84	188.00	187.45	281.90	280.98
92.00	91.83	190.00	189.44	283.90	282.97
94.00	93.82	192.00	191.43	285.90	284.96
96.00	95.82	194.00	193.42	287.90	286.95
98.00	97.81	196.00	195.41	289.90	288.94
100.00	99.80	198.00	197.41	294.00	293.91
102.00	101.79	200.00	199.40	296.00	295.90
104.00	103.78	202.00	201.39	298.00	297.89
106.00	105.77	204.00	203.38	300.00	299.87
108.00	107.76	206.00	205.37	302.00	301.86
112.00	111.75	208.00	207.36	304.00	303.84
114.00	113.74	210.00	209.35	306.00	305.83
116.00	115.73	212.00	211.34	308.00	307.82
118.00	117.73	214.00	213.33	310.00	309.81
120.00	119.72	216.00	215.32	312.00	311.79
122.00	121.71	218.00	217.31	314.00	313.78
124.00	123.70	220.00	219.30	316.00	315.77
126.00	125.69	222.00	221.29	318.00	317.76
128.00	127.68	224.00	223.28	320.00	319.73
130.00	129.68	226.00	225.27	322.00	321.71
132.00	131.67	228.00	227.26	324.00	323.69
134.00	133.66	230.00	229.25	326.00	325.68
136.00	135.65	232.00	231.25	328.00	327.66
138.00	137.64	234.00	233.24	330.00	329.64
140.00	139.63	236.00	235.23	332.00	331.63
142.00	141.62	238.00	237.22	334.00	333.61
144.00	143.61	240.00	239.21	336.00	335.60
146.00	145.60	242.00	241.20	338.00	337.58
150.00	149.59	244.00	243.19	340.00	339.57
152.00	151.58	246.00	245.18	342.00	341.56
154.00	153.57	248.00	247.17	344.00	343.56
156.00	155.57	250.00	249.16	346.00	345.55
158.00	157.56	252.00	251.15		
160.00	159.55	254.00	253.14		
162.00	161.54	256.00	255.13		
164.00	163.53	258.00	257.12		
166.00	165.52	260.00	259.11		
168.00	167.52	261.90	261.10		
170.00	169.51	263.90	263.09		
172.00	171.50	265.90	265.08		
174.00	173.50	267.90	267.06		
176.00	175.49	269.90	269.05		
178.00	177.48	273.90	273.03		
180.00	179.48	275.90	275.02		
182.00	181.47	277.90	277.01		
184.00	183.46	279.90	278.99		
186.00	185.45	281.90	280.98		
188.00	187.45	283.90	282.97		
190.00	189.44	285.90	284.96		
192.00	191.43	287.90	286.95		
194.00	193.42	289.90	288.94		
196.00	195.41	294.00	293.91		
198.00	197.41	296.00	295.90		
200.00	199.40	298.00	297.89		
202.00	201.39	300.00	299.87		
204.00	203.38	302.00	301.86		
206.00	205.37	304.00	303.84		
208.00	207.36	306.00	305.83		
210.00	209.35	308.00	307.82		
212.00	211.34	310.00	309.81		
214.00	213.33	312.00	311.79		
216.00	215.32	314.00	313.78		
218.00	217.31	316.00	315.77		
220.00	219.30	318.00	317.76		
222.00	221.29	320.00	319.73		
224.00	223.28	322.00	321.71		
226.00	225.27	324.00	323.69		
228.00	227.26	326.00	325.68		
230.00	229.25	328.00	327.66		
232.00	231.25	330.00	329.64		
234.00	233.24	332.00	331.63		
236.00	235.23	334.00	333.61		
238.00	237.22	336.00	335.60		
240.00	239.21	338.00	337.58		
242.00	241.20	340.00	339.57		
244.00	243.19	342.00	341.56		
246.00	245.18	344.00	343.56		
248.00	247.17	346.00	345.55		
250.00	249.16				
252.00	251.15				
254.00	253.14				
256.00	255.13				
258.00	257.12				
260.00	259.11				
261.90	261.10				
263.90	263.09				
265.90	265.08				
267.90	267.06				
269.90	269.05				
273.90	273.03				
275.90	275.02				
277.90	277.01				
279.90	278.99				
281.90	280.98				
283.90	282.97				
285.90	284.96				
287.90	286.95				
289.90	288.94				
294.00	293.91				
296.00	295.90				
298.00	297.89				
300.00	299.87				
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332.00	331.63				
334.00	333.61				
336.00	335.60				
338.00	337.58				
340.00	339.57				
342.00	341.56				
344.00	343.56				
346.00	345.55				

3D Borehole Deviation

COMPANY	COMPLIANCE COAL CORP				
WELL	RAV09-020				
FIELD	UNDEFINED				
PROVINCE/COUNTY	BRITISH COLUMBIA				
COUNTRY/STATE	CANADA				
Elevation Kelly bushing	metres	Total Reading	347.00	metres	
Elevation Ground level	metres	Total Logged	346.55	metres	
Elevation Ground Level	metres	Depth Logged	347.00	metres	

Weatherford

VERTICALITY ANALYSIS

COMPOSITE COAL LOG

COMPANY COMPLIANCE COAL CORP
WELL RAV09-021
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA
Elevation: KB 0.00 m
Depth Datum: KB
Depth Unit: metres

Log Date	15-JUL-2009	Run Number	1
Top Log Interval	0.00 m	Bottom Log Interval	300.00 m
Casing Driller	0.00 m	Casing Logger	0.00 m
Bit Size	152.400 mm	Drill Collar Length	0.00 m
Drill Pipe/Tubing	NO DRILL PIPE	Drill Collar Size	0.00 mm
Max Rec Temp	0.00 degC	Equipment / Unit	1
Recorded By	Weatherford Canada Partnership	Witnessed By	Client

BOREHOLE RECORD

Last Edited: 15-JUL-2009 13:04

Bit Size	Depth From	Depth To
152.400	0.00	58.00
108.000	58.00	100.00
152.400	100.00	301.00

CASING RECORD

Type	Size	Depth From	Depth To	Shoe Depth	Weight
	mm	metres	metres	metres	kg/m
CSG	101.600	0.00	58.00	58.00	14.00

REMARKS

COORDINATES
NORTHING
564660
EASTING
99000
ZONE
10U DUNS
DATA ACQUIRING VERTICALLY TEMPERATURE
BORE WALL CONDITION - GOOD
BORE HOLE CONDITION - GOOD
FLOWING WELL
WELL WAS LIQUIED STAND ALONE
SONIC LOGGED UP TO 58M DUE TO PRESENCE OF GAS IN WELL

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretation, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

COMPOSITE LOG 1:240

Depth Based Data : Merged File
Filename: C:\logs\Compliance\RAV09-021\RAV09-021-M.dpr
Session Versions: Logged with 3.06.02H2 Merged with 3.06.02H2 Plotted with 3.06.02H2

Plotted on 15-JUL-2009 15:21
Merged on 14-JUL-2009 19:13

Bit Size millimetres 140 — 150

FE Resistivity Shallow ohm metres 2 — 2000

FE Resistivity Deep ohm metres 2 — 2000

Gamma Ray from DCS API 0 — 200

Caliper from DCS millimetres 100 — 150

Density Short Spaced grams/cc 1.95 — 2.95

Depth Metres 1:240 0 — 300

Compensated Density grams/cc 2 — 3,000

BS um Compare. Sonic 9/1994 microseconds 300 — 150

Density Correction grams/cc -0.25 — 0.25

Coaling Shoot

Density (MD) Sonic
Gamma Ray from DCS
Resistivity Deep
Resistivity Shallow

Density Correction
Compensated Density

Density (MD) Sonic
Gamma Ray from DCS
Resistivity Deep
Resistivity Shallow
Average FE Resistivity Deep
FE Resistivity Shallow

Density (MD) Sonic
Gamma Ray from DCS
Resistivity Deep
Resistivity Shallow

Density (MD) Sonic
Gamma Ray from DCS
Resistivity Deep
Resistivity Shallow

Bit Size millimetres 140 — 150

FE Resistivity Shallow ohm metres 2 — 2000

FE Resistivity Deep ohm metres 2 — 2000

Gamma Ray from DCS API 0 — 200

Caliper from DCS millimetres 100 — 150

Density Short Spaced grams/cc 1.95 — 2.95

Depth Metres 1:240 300 — 340

Compensated Density grams/cc 2 — 3,000

BS um Compare. Sonic 9/1994 microseconds 300 — 150

Density Correction grams/cc -0.25 — 0.25

Depth based Data : Merged File
Filename: C:\logs\Compliance\RAV09-021\RAV09-021-M.dpr
Session Versions: Logged with 3.06.02H2 Merged with 3.06.02H2 Plotted with 3.06.02H2

Plotted on 15-JUL-2009 15:21
Merged on 14-JUL-2009 19:13

COMPOSITE LOG 1:240

COMPANY COMPLIANCE COAL CORP
WELL RAV09-021
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA
Elevation: KB 0.00 m
Depth Datum: KB
Depth Unit: metres

Log Date	15-JUL-2009	Run Number	1
Top Log Interval	0.00 m	Bottom Log Interval	300.00 m
Casing Driller	0.00 m	Casing Logger	0.00 m
Bit Size	152.400 mm	Drill Collar Length	0.00 m
Drill Pipe/Tubing	NO DRILL PIPE	Drill Collar Size	0.00 mm
Max Rec Temp	0.00 degC	Equipment / Unit	1
Recorded By	Weatherford Canada Partnership	Witnessed By	Client

Weatherford

COMPOSITE COAL LOG

COAL DETAIL
GAMMA RAY, CALIPER
COAL SEAM, ZONES

Weatherford	COMPANY: COAL CORP
	WELL: ANDERSON
	FIELD: WILDCAT
	COUNTY/PROVINCE: ALABAMA
	STATE/COUNTRY: ALABAMA
	API/UWI: Long/Lat: Township: 20 S - 34W
	Elevation: KB: 0 m DF: 0 m GL: 0 m Section: Range:
	Date: 1-Jan-2000 Time: Run Number: 1
	Depth Reference: KB

BOREHOLE RECORD

Bit Size (in)	From (m)	To (m)
12.250	0.000	24.000
8.750	24.000	1000.000

Casing Size (in)	Casing Weight (lb/ft)	Casing Grade	From (m)	To (m)
9.625	36.000	J-55	0.000	24.000

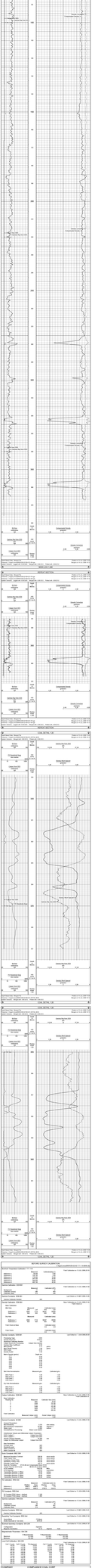
REMARKS

Logging Company:
Logging Date:
Operator:
Witnesses:
Equipment:
Logging Unit Number: LOGGING COMPANY
Recorded Mode: Linear - Linear
Recorded Speed: 1000.000 m/hr
Depth Reference: KB
Depth Correction: 0.000 m
Remarks: Logged with 1 sonde(s) in 1 hole(s)

Depth Correction: 0.000 m Depth Reference: KB Logged with 1 sonde(s) in 1 hole(s) Recorded Mode: Linear - Linear Recorded Speed: 1000.000 m/hr Logging Company: LOGGING COMPANY Logging Date: Logging Unit Number: Equipment: Witnesses: Operator: Remarks: Logged with 1 sonde(s) in 1 hole(s)

MAIN PASS

Depth Scale: 1:200 (5" per 100 m) Date: 1-Jan-2000 Time: Run Number: 1 Depth Reference: KB Page: 1 of 1 Depth Scale: 1:200 (5" per 100 m) Date: 1-Jan-2000 Time: Run Number: 1 Depth Reference: KB Page: 1 of 1


Bit Size
Gamma Ray
Caliper
Coal Seam
Zones
Coal Seam
Zones

COMPANY	COMPLIANCE COAL CORP
WELL	FIELD 1
FIELD	LADDFIELD
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Service Rig Number	unknown
Service Rig Manufacturer	unknown
Top Bushing	30.18 metre
Ground Elevation	29.18 metre
Log Measured From	KB
Permanent Datum	GL
Drilling Measured From	KB
Log Date	10.JUL.2006
Log Number	1
Run Number	ONE
Depth Driller	300.00 metre
Depth Logger	300.00 metre
Bottom Log Interval	300.00 metre
Top Log Interval	0.00 metre
Casing Driller	0.00 metre @ 0.00 metre
Casing Logger	0.00 metre
Bit Size	0.00 metre
Type Fluid in Hole	UNKNOWN
Density	0.00 g/cm³
Viscosity	0.00 mPa.s
Fluid Loss	0.00 cm³/30min
Source of Sample	UNKNOWN
Rm @ Measured Temp	0.00 ohmm @ 0.00
Rmf @ Measured Temp	0.00 ohmm @ 0.00
Rmc @ Measured Temp	0.00 ohmm @ 0.00
Rm @ BHT	0.00 ohmm @ 0.00
Rmf @ BHT	0.00 ohmm @ 0.00
Rmc @ BHT	0.00 ohmm @ 0.00
Max Rec Temp	0.00
Equipment Number	1006
Location	Ladd Field
Recorded By	D. Hamilton
Witnessed By	Mr. Ed Hamilton

DUAL FOCUSED ELECTRIC GAMMA RAY CALIPER

Run	Bit Size	Casing Size	Depth Driller	Depth Logger	Bottom Log Interval	Top Log Interval	Type Fluid in Hole	Density	Viscosity	Max Rec Temp	Equipment	Location	Recorded By	Witnessed By
ONE	0.00 metre	0.00 metre	300.00 metre	300.00 metre	300.00 metre	0.00 metre	UNKNOWN	0.00 g/cm³	0.00 mPa.s	0.00	1006	Ladd Field	D. Hamilton	Mr. Ed Hamilton

BUSHOLD RECORD

Bit Size	Cased From	Cased To
0.00 metre	0.00 metre	0.00 metre

LAST RUN: 10.JUL.2006 12:00

CASING RECORD

Type	Size	Weight	Grade	Top Cased	Shoe Cased	Cement Top
	0.00 metre	0.00 kg/m		0.00 metre	0.00 metre	

REMARKS

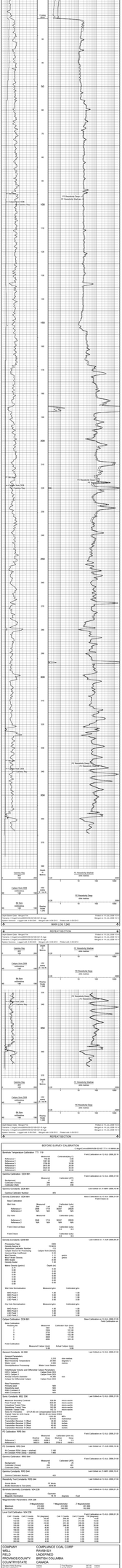
COORDINATES
SURFACE
UNKNOWN

TOOL NO:
1006 DUAL FOCUSED ELECTRIC TEMPERCVMS
NORM HOLD CONF: 22000
NORM HOLD: 22000
NORM: 22000

WELL WAS LOGGED STAND ALONE

WELL WAS LOGGED AT 0 DEGREE FREQUENCY OF GAIN WELL

All measurements are actually taken in distance from datum or other measurement and are corrected for well geometry but not for quenching.Accuracy is dependent on the condition of the borehole, the environment in which the tool was run, the calibration of the tool and the skill of the operator. Interpretation of the data is the responsibility of the client. Weatherford Canada Partnership will not be liable for any damages or losses incurred by the client or third parties as a result of the use of this data.


MAIN LOG 1:240
Field Data Date: 10-Jul-2006
Depth Datum: KB
Depth Datum Elevation: 29.18 metre
Depth Datum Elevation: 29.18 metre
Log Measured From: KB
Log Measured From: KB
Log Measured From: KB
Permanent Datum: GL
Permanent Datum: GL
Permanent Datum: GL
Log Date: 10-JUL-2006
Log Date: 10-JUL-2006
Log Date: 10-JUL-2006
Log Number: 1
Log Number: 1
Log Number: 1
Run Number: ONE
Run Number: ONE
Run Number: ONE
Depth Driller: 300.00 metre
Depth Driller: 300.00 metre
Depth Driller: 300.00 metre
Depth Logger: 300.00 metre
Depth Logger: 300.00 metre
Depth Logger: 300.00 metre
Bottom Log Interval: 300.00 metre
Bottom Log Interval: 300.00 metre
Bottom Log Interval: 300.00 metre
Top Log Interval: 0.00 metre
Top Log Interval: 0.00 metre
Top Log Interval: 0.00 metre
Casing Driller: 0.00 metre @ 0.00 metre
Casing Driller: 0.00 metre @ 0.00 metre
Casing Driller: 0.00 metre @ 0.00 metre
Casing Logger: 0.00 metre
Casing Logger: 0.00 metre
Casing Logger: 0.00 metre
Bit Size: 0.00 metre
Bit Size: 0.00 metre
Bit Size: 0.00 metre
Type Fluid in Hole: UNKNOWN
Type Fluid in Hole: UNKNOWN
Type Fluid in Hole: UNKNOWN
Density: 0.00 g/cm³
Density: 0.00 g/cm³
Density: 0.00 g/cm³
Viscosity: 0.00 mPa.s
Viscosity: 0.00 mPa.s
Viscosity: 0.00 mPa.s
Max Rec Temp: 0.00
Max Rec Temp: 0.00
Max Rec Temp: 0.00
Equipment Number: 1006
Equipment Number: 1006
Equipment Number: 1006
Location: Ladd Field
Location: Ladd Field
Location: Ladd Field
Recorded By: D. Hamilton
Recorded By: D. Hamilton
Recorded By: D. Hamilton
Witnessed By: Mr. Ed Hamilton
Witnessed By: Mr. Ed Hamilton
Witnessed By: Mr. Ed Hamilton
Gamma Ray
0 API 150
Caliper Data DCR
Caliper Data DCR
Caliper Data DCR

Run	Date	Time	Depth Driller	Depth Logger	Bottom Logged Interval	Top Logged Interval	Casing Driller Size @ Depth	Casing Logger Size @ Depth	Bit Size	Drilling Fluid Type	Drilling Fluid Density	Drilling Fluid Viscosity	Drilling Fluid Resistivity	Drilling Fluid Temperature	Source of Sample	Rm @ Measured Temp	Rmf @ Measured Temp	Rmc @ Measured Temp	Source Rmf / Rmc	Rm @ BHT	Equipment Number	Location	Recorded By	Witnessed By
ONE	15-JUL-2009	11:54	300.00	298.00	298.00	0.00	0.00	0.00	152.40	WATER											10-1			
TWO	15-JUL-2009	13:00	300.00	298.00	298.00	0.00	0.00	0.00	152.40	WATER											10-1			

COMPANY COMPLIANCE COAL CORP
WELL RAV09-921
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

MINIPLOT

BOREHOLE RECORD		
Bit Size	Depth From	Depth To
152.40	0.00	50.00
108.200	50.00	98.00
152.40	98.00	300.00
100.500	300.00	367.00

Last Edited: 15-JUL-2009 11:54

CASING RECORD				
Type	Size	Depth From	Shoe Depth	Weight
	mm/in	mm/ft	mm/ft	kg/m/lb/ft
	108.200	0.00	298.00	14.43 lb

REMARKS

CORPORATES
CONTRACTOR
HAMMER

DRILLING
DRILLER

TOOL RUNS
SRC,SDL,BDL,VERTICALITY,TEMPERATURE

BORE WALL COND - GOOD
CASE WALL COND - GOOD

FLOWING WELL:

WELL WAS LOGGED STAND ALONE

SONIC LOGGED UP TO 60M DUE TO PRESENCE OF GAS IN WELL

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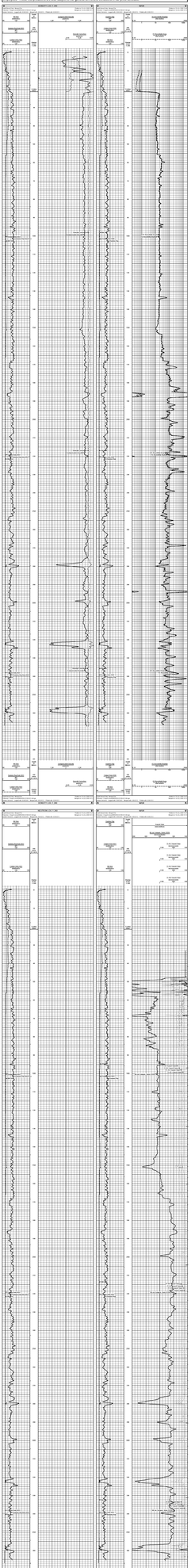

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-921
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	Final Reading	367.00	metres
Elevation Grd Floor	metres	Depth Driller	367.00	metres
Elevation Ground Level	metres	Depth Logger	367.00	metres

Weatherford

MINIPLOT

RICH COMPENSATED SONIC

Well Name	HARDWICKE 1-17-85-20
Surface Location	100/16-17-085-20W6/00
Licence Number	0479
Drilling Contractor	PRONGHORN COUNTRY
Spud Date	2-Dec-2011
Drilling Completed	12-Dec-2011
Logging Completed	13-Dec-2011
Rig Release	14-Dec-2011
Drilling Operations Days	12
Total Depth	1,215.00 m
Final Drill Date	12-Dec-2011
Rig Name	PRONGHORN COUNTRY
Drilling Fluid Type	Water Based
Surface Coordinates	6,000,000.00 N 0.00 E
Bottom Hole Coordinates	6,000,000.00 N 0.00 E
Ground Elevation	1,000.00 m
Kelly Bushing Elevation	1,005.00 m
Total Depth	1,215.00 m
Drill Bit	200.00 mm
Drill Collar Length	30.00 m
Drill Collar Weight	0.00 kg
Drill Collar Outside Diameter	200.00 mm
Drill Collar Inside Diameter	0.00 mm
Drill Collar Connection Type	
Drill Collar Material	
Drill Collar Comment	
Drill Pipe Length	0.00 m
Drill Pipe Outside Diameter	0.00 mm
Drill Pipe Inside Diameter	0.00 mm
Drill Pipe Connection Type	
Drill Pipe Material	
Drill Pipe Comment	
Heavy Weight Drill Pipe Length	0.00 m
Heavy Weight Drill Pipe Outside Diameter	0.00 mm
Heavy Weight Drill Pipe Inside Diameter	0.00 mm
Heavy Weight Drill Pipe Connection Type	
Heavy Weight Drill Pipe Material	
Heavy Weight Drill Pipe Comment	
Drill Bit Description	200 mm Bit
Bottom Hole Assembly	
Surface Equipment	Rig

BOREHOLE RECORD

Bit Size	Lat Deviation	Lat Deviation
200.00 mm	0.00 m	0.00 m
140.00 mm	1,215.00 m	1,215.00 m

CASING RECORD

Type	Size	Set Depth	Hole Depth	Top Depth
Surface	140.00 mm	12.00 m	12.00 m	0.00 m

REMARKS

COMMENTS:
SAMPLES:
CORES:
TESTS:
Remarks:
FOLD PLACE:
DRILL STEM TEST CONTACTS TIMEPACKER:
Water Source: 100/16-17-085-20W6/00
Drilling Fluid Type: GEL
Comments:
Water Source: 100/16-17-085-20W6/00
NOTE: LOCATE UP TO MEASURE TO TIMEPACK AT 1200 M BELL.

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Gamma Ray
Caliper from 2D3
Bit Size
Delta T
Compressional Sonic
Shear Sonic
Depth
Depth Track
Casing Shoe
Casing Shoe
Casing Shoe

COMPANY	COMPLIANCE COAL CORP
WELL	RAVOS-021
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Ground Level	metres
Permanent Datum	Ground Level
Log Measured From	KB
Drilling Measured From	KB
Date	2009-10-06
Run Number	ONE
Depth Driller	307.00
Depth Logger	307.00
Bottom Log Interval	307.00
Top Log Interval	0.00
Casing Driller	0.00
Casing Logger	0.00
Bit Size	0.00
Drilling Fluid Type	NONE
Drilling Fluid Density	0.00
Drilling Fluid Viscosity	0.00
Drilling Fluid Loss	0.00
Drilling Fluid Resistivity	0.00
Drilling Fluid Sample Source	
Drilling Fluid Resistivity Measured At	
Drilling Fluid Sample Temperature	
Drilling Fluid Resistivity Measured At	
Drilling Fluid Filtrate Resistivity	
Drilling Fluid Filtrate Resistivity Measured At	
Drilling Fluid Filtrate Sample Temperature	
Drilling Fluid Cake Resistivity	
Drilling Fluid Cake Resistivity Measured At	
Drilling Fluid Cake Sample Temperature	
Max Recorded Temperature	0.00
Bottom Hole Temperature	
Equipment Number	
Location	
Recorded By	
Witnessed By	

BOREHOLE TEMPERATURE DIFFERENTIAL TEMPERATURE

COMPANY COMPLIANCE COAL CORP
WELL RAVOS-021
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

BOREHOLE RECORD

Last Edited: 15-JUL-2009 13:54

Bit Size millimetres	Depth From metres	Depth To metres
139.000	0.00	58.00
139.000	58.00	307.00
100.000	180.00	307.00

CASING RECORD

Type	Size millimetres	Depth Driller metres	Shoe Depth metres	Weight kg/metre
Casing	168.200	0.00	21.00	14.43.00

REMARKS

COORDINATES
NAD83 NAD83
TOWNING
OWNER

TOOL RUNS
WIRELINE DIFF. VERTICALITY TEMPERATURE

DRITTING
DRIER

TOOL RUNS
WIRELINE DIFF. VERTICALITY TEMPERATURE

BORE WALL COND - GOOD
BORE HOLE COND - GOOD

FLOWING WELL

WELL WAS SHUT IN STAND ALONE

BONG LOGGED UP TO 58M DUE TO PRESENCE OF GAS IN WELL

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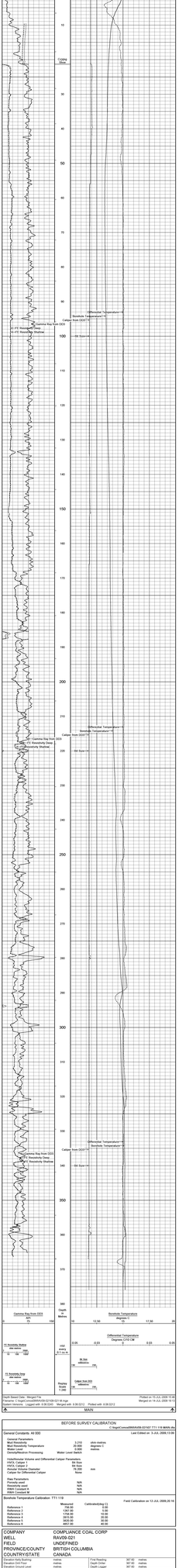
MAIN

Depth Based Data - Merged File
Filename: C:\Rigsh\Consolidat\RAVOS-021\RD-021.M.mgs
System Versions Logged with: 5.06.0242 Merged with: 5.06.0212 Plotted with: 5.06.0212

Plotted on 15-JUL-2009 15:46
Merged on 14-JUL-2009 15:10



BEFORE SURVEY CALIBRATION

C:\Rigsh\Consolidat\RAVOS-021\027 T11 119 MAIN.dlis

Last Edited on: 9-JUL-2009,13:08

General Constants: All DDS		
General Parameters		
Mud Resistivity	3.210	ohm-metres
Mud Resistivity Temperature	20.000	degrees C
Hole Diameter	139.700	metres
Density/Neutron Processing	Water Level Switch	
Hole/Annular Volume and Differential Caliper Parameters		
Hole Caliper 1	139.700	mm
Hole Caliper 2	99.300	
Annular Volume Diameter	168.200	mm
Caliper for Differential Caliper	Stone	
Bias Parameters		
Density bias	N/A	
Resistivity bias	N/A	
AMA Constant A	N/A	
AMA Constant B	N/A	
Borehole Temperature Calibration: T11 119		

Field Calibration on 12-JUL-2009,20:16

	Measured	Calibrated(deg C)
Reference 1	756.00	0.00
Reference 2	1362.00	5.00
Reference 3	2968.00	15.00
Reference 4	3610.00	20.00
Reference 5	4252.00	25.00
Reference 6	4557.00	40.00

Depth Based Data - Merged File
Filename: C:\Rigsh\Consolidat\RAVOS-021\RD-021.M.mgs
System Versions Logged with: 5.06.0242 Merged with: 5.06.0212 Plotted with: 5.06.0212

Plotted on 15-JUL-2009 15:46
Merged on 14-JUL-2009 15:10

MAIN

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BOREHOLE TEMPERATURE
DIFFERENTIAL TEMPERATURE

Vertcality Analysis Interpretation Notes

14-JUL-2009 19:24

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1,500(horizontal) and 1 4600(vertical), and the minimum scales 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 10, 20, 50 and 100 instructed depending on the total length of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed errors are only fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects. (as the approximate calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole data prior to this point will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Vertcality Data Listing

C:\logs\Cosmos\NNAVG9-0215\VG4-2J8.M dat
All Co-ordinates With Respect To True North, all depths in metres

Date Processed: 14-JUL-2009
Date Logged: 13-JUL-2009

First Depth: 7.10, 0.00 North, 0.00 East of Origin

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR	
Log	True	Tilt	Azi	North	East	Brg	Radius
9.00	9.00	0.3	213.2	-0.01	0.00	165.	0.01
11.00	11.00	0.4	3.7	-0.01	0.00	159.	0.01
13.00	13.00	0.4	356.8	-0.00	0.00	180.	0.00
15.00	15.00	0.4	348.6	0.01	0.00	28.	0.01
17.00	17.00	0.3	133.5	0.01	0.01	47.	0.01
19.00	19.00	0.3	96.9	0.00	0.02	90.	0.02
21.00	21.00	0.5	332.1	-0.00	0.02	180.	0.02
23.00	23.00	0.3	66.4	-0.01	0.03	102.	0.03
25.00	25.00	0.4	82.6	-0.00	0.04	93.	0.04
27.00	27.00	0.9	75.3	0.01	0.08	49.	0.06
29.00	29.00	0.9	75.3	0.02	0.11	49.	0.11
31.00	31.00	0.9	58.5	0.03	0.10	72.	0.11
33.00	33.00	1.0	86.7	0.05	0.12	69.	0.13
35.00	35.00	0.7	82.4	0.06	0.14	67.	0.15
37.00	37.00	0.6	57.2	0.07	0.16	67.	0.18
39.00	39.00	0.7	47.9	0.08	0.17	64.	0.19
41.00	41.00	0.2	78.5	0.09	0.20	66.	0.22
43.00	43.00	0.8	75.2	0.10	0.22	66.	0.24
45.00	45.00	0.8	75.2	0.12	0.25	65.	0.27
47.00	47.00	0.6	58.5	0.13	0.26	65.	0.29
49.00	49.00	0.6	95.7	0.13	0.28	64.	0.31
51.00	51.00	0.5	66.9	0.14	0.30	64.	0.33
53.00	53.00	0.5	65.4	0.16	0.32	64.	0.36
55.00	55.00	0.5	65.4	0.17	0.34	64.	0.38
57.00	57.00	0.5	58.4	0.18	0.36	64.	0.41
59.00	59.00	0.6	87.0	0.19	0.38	64.	0.43
61.00	61.00	0.5	76.9	0.20	0.40	63.	0.45
63.00	63.00	0.5	76.9	0.22	0.43	63.	0.48
65.00	65.00	0.6	88.7	0.23	0.45	63.	0.50
67.00	67.00	0.9	48.7	0.24	0.47	63.	0.53
69.00	69.00	0.8	42.8	0.26	0.49	62.	0.55
71.00	71.00	0.8	42.8	0.28	0.52	62.	0.58
73.00	73.00	0.6	57.0	0.29	0.51	60.	0.58
75.00	75.00	0.6	23.8	0.31	0.52	59.	0.61
77.00	77.00	0.9	18.5	0.33	0.53	58.	0.63
79.00	79.00	0.9	20.9	0.35	0.54	57.	0.66
81.00	81.00	0.9	35.7	0.37	0.56	56.	0.68
83.00	83.00	0.8	64.5	0.38	0.56	56.	0.68
85.00	85.00	0.4	62.4	0.41	0.57	55.	0.70
87.00	87.00	0.4	62.4	0.42	0.58	55.	0.72
89.00	89.00	0.4	125.1	0.41	0.59	55.	0.74
91.00	91.00	0.4	46.0	0.42	0.61	53.	0.76
93.00	92.99	0.3	41.8	0.45	0.62	52.	0.78
95.00	94.99	0.4	32.1	0.50	0.63	51.	0.80
97.00	96.99	0.4	32.1	0.54	0.64	50.	0.83
99.00	98.99	0.7	64.6	0.55	0.64	49.	0.85
101.00	100.99	0.6	86.2	0.54	0.68	51.	0.86
103.00	102.99	0.6	86.2	0.54	0.71	52.	0.89
104.99	104.99	0.6	60.2	0.56	0.72	52.	0.91
107.00	106.99	0.8	83.4	0.57	0.74	53.	0.93
109.00	108.99	0.8	80.3	0.57	0.76	53.	0.95
111.00	110.99	0.8	71.3	0.58	0.78	53.	0.98
113.00	112.99	0.8	71.3	0.59	0.80	53.	1.00
115.00	114.99	0.8	77.4	0.60	0.83	54.	1.02
117.00	116.99	0.8	94.6	0.61	0.85	54.	1.04
119.00	118.99	0.8	71.4	0.61	0.87	54.	1.07
121.00	120.99	1.0	84.4	0.62	0.89	55.	1.09
123.00	122.99	0.9	64.2	0.63	0.91	55.	1.11
125.00	124.99	0.8	48.3	0.64	0.94	56.	1.13
127.00	126.99	0.8	66.0	0.65	0.96	56.	1.15
129.00	128.99	0.8	41.3	0.66	0.98	56.	1.17
131.00	130.99	0.8	41.3	0.66	1.00	56.	1.20
133.00	132.99	0.6	84.5	0.67	1.02	57.	1.22
135.00	134.99	0.6	57.0	0.68	1.04	57.	1.24
137.00	136.99	0.8	55.6	0.69	1.06	57.	1.27
139.00	138.99	0.8	55.6	0.70	1.08	57.	1.29
141.00	140.99	0.6	49.8	0.72	1.09	57.	1.31
143.00	142.99	0.6	88.1	0.74	1.10	56.	1.33
145.00	144.99	0.6	58.4	0.76	1.12	56.	1.35
147.00	146.99	0.5	34.5	0.77	1.13	56.	1.37
149.00	148.99	0.5	58.4	0.79	1.14	55.	1.39
151.00	150.99	0.5	28.6	0.81	1.15	55.	1.41
153.00	152.99	0.6	57.2	0.83	1.17	55.	1.43
155.00	154.99	0.6	57.2	0.84	1.18	55.	1.45
157.00	156.99	0.4	63.6	0.86	1.20	54.	1.46
159.00	158.99	0.6	38.5	0.88	1.21	54.	1.50
161.00	160.99	0.6	38.5	0.90	1.22	54.	1.52
163.00	162.99	0.6	53.9	0.92	1.24	54.	1.54
165.00	164.99	0.6	53.9	0.93	1.25	53.	1.56
167.00	166.99	0.9	66.6	0.95	1.27	53.	1.59
169.00	168.99	0.6	84.7	0.95	1.30	54.	1.61
171.00	170.99	0.6	84.7	0.96	1.32	54.	1.63
173.00	172.99	0.8	64.8	0.97	1.35	54.	1.66
175.00	174.99	0.6	71.3	0.98	1.37	55.	1.68
177.00	176.99	1.0	75.2	0.98	1.39	55.	1.71
179.00	178.99	0.8	70.0	0.99	1.42	55.	1.73
181.00	180.99	0.8	70.0	1.00	1.44	55.	1.75
183.00	182.99	1.0	76.6	1.01	1.46	55.	1.78
185.00	184.99	0.8	86.2	1.01	1.49	56.	1.80
187.00	186.99	0.8	86.2	1.01	1.51	56.	1.82
189.00	188.99	0.5	72.3	1.03	1.53	56.	1.85
191.00	190.99	0.4	80.7	1.04	1.55	56.	1.87
193.00	192.99	0.4	37.5	1.05	1.56	57.	1.89
195.00	194.99	0.6	34.3	1.07	1.57	56.	1.90
197.00	196.99	0.6	34.3	1.08	1.59	56.	1.92
199.00	198.99	0.9	41.4	1.11	1.63	56.	1.97
201.00	200.99	0.6	47.3	1.12	1.61	55.	1.96
203.00	202.99	0.6	47.3	1.13	1.63	55.	1.98
205.00	204.99	0.6	38.9	1.14	1.64	55.	1.99
207.00	206.99	0.6	38.9	1.15	1.66	55.	2.01
209.00	208.99	0.6	37.5	1.18	1.68	54.	2.03
211.00	210.99	0.4	80.6	1.19	1.66	54.	2.04
213.00	212.99	0.4	80.6	1.19	1.67	54.	2.05
215.00	214.99	0.6	35.7	1.21	1.68	54.	2.08
217.00	216.99	0.4	80.2	1.24	1.69	54.	2.10
219.00	218.99	0.6	32.9	1.25	1.70	54.	2.11
221.00	220.99	0.6	29.7	1.27	1.71	53.	2.13
223.00	222.99	0.6	29.7	1.28	1.72	53.	2.15
225.00	224.99	0.4	45.3	1.29	1.73	53.	2.16
227.00	226.99	0.6	21.0	1.31	1.73	53.	2.17
229.00	228.99	0.6	21.0	1.32	1.74	53.	2.19
231.00	230.99	0.6	18.1	1.33	1.75	53.	2.20
233.00	232.99	0.4	57.9	1.35	1.76	53.	2.22
235.00	234.99	0.4	52.0	1.36	1.77	53.	2.23
237.00	236.99	0.3	7.5	1.37	1.78	52.	2.25
239.00	238.99	0.4	86.1	1.37	1.79	52.	2.26
241.00	240.99	0.6	86.1	1.38	1.80	52.	2.27
243.00	242.99	0.4	75.7	1.39	1.82	53.	2.29
245.00	244.99	0.4	74.3	1.40	1.83	53.	2.30
247.00	246.99	0.4	74.3	1.40	1.84	53.	2.31
249.00	248.99	0.4	79.1	1.39	1.86	53.	2.33
251.00	250.99	0.6	63.5	1.39	1.88	54.	2.34
253.00	252.99	0.4	63.9	1.39	1.90	54.	2.35
255.00	254.99	0.4	63.9	1.39	1.91	54.	2.36
257.00	256.99	0.5	101.1	1.39	1.93	54.	2.37
259.00	258.99	0.5	96.6	1.39	1.95	55.	2.39
261.00	260.99	0.5	96.6	1.38	1.96	55.	2.39
263.00	262.99	0.3	93.8	1.38	1.98	55.	2.41
265.00	264.99	0.3	93.8	1.38	1.99	55.	2.42
267.00	266.99	0.3	92.7	1.38	2.01	55.	2.44
269.00	268.98	0.6	121.6	1.38	2.02	56.	2.45
271.00	270.98	0.6	121.6	1.37	2.04	56.	2.46
273.00	272.98	0.6	55.0	1.38	2.05	56.	2.47
275.00	274.98	0.3	168.0	1.39	2.06	56.	2.48
277.00	276.98	0.6	30.5	1.40	2.07	56.	2.50
279.00	278.98	0.4	20.7	1.41	2.08	56.	2.51
281.00	280.98	0.4	20.7	1.42	2.09	56.	2.52
283.00	282.98	0.6	73.3	1.48	2.12	55.	2.56
285.00	284.98	0.6	73.8	1.44	2.11	56.	2.55
287.00	286.98	0.6	30.5	1.45	2.12	56.	2.56
289.00	288.98	0.6	30.5	1.46	2.13	56.	2.57
291.00	290.98	0.6	30.2	1.47	2.13	55.	2.58
293.00	292.98	0.6	73.3	1.48	2.14	55.	2.59
295.00	294.98	0.3	46.2	1.49	2.15	55.	2.62
297.00	296.98	0.3	46.2	1.50	2.16	55.	2.63
299.00	298.98	0.3	40.0	1.51	2.17	55.	2.65
301.00	300.98	0.3	34.5	1.52	2.18	55.	2.66
303.00	302.98	0.3	51.9	1.53	2.19	55.	2.67
305.00	304.98	0.4	103.9	1.52	2.20	55.	2.68
307.00	306.98	0.4	103.9	1.51	2.21	55.	2.69
309.00	308.98	0.6	114.6	1.49	2.22	55.	2.70
311.00	310.98	0.5	145.9	1.50	2.24	56.	2.71
313.00	312.98	0.5	145.9	1.51	2.25	56.	2.72
315.00	314.98	0.6	180.3	1.54	2.26	57.	2.71
317.00	316.98	0.3	134.1	1.48	2.27	57.	2.71
319.00	318.98	0.3	134.8	1.47	2.28	57.	2.72
321.00	320.98	0.4	68.2	1.47	2.30	57.	2.73
323.00	322.98	0.4	68.2	1.47	2.31	57.	2.74
325.00	324.98	0.3	122.6	1.46	2.32	58.	2.74
327.00	326.98	0.5	129.0	1.45	2.33	58.	2.74
329.00	328.98	0.5	120.2	1.44	2.34	58.	2.75
331.00	330.98	0.3	82.2	1.45	2.35	58.	2.76
333.00	332.98	0.3	80.2	1.45	2.36	58.	2.77
335.00	334.98	0.3	75.6	1.46	2.37	58.	2.78
337.00	336.98	0.6	73.2	1.47	2.38	58.	2.79
339.00	338.98	0.6	73.2	1.47	2.39	58.	2.80
341.00	340.98	0.3	61.4	1.48	2.40	58.	2.82
343.00	342.98	0.6	47.9	1.49	2.41	58.	2.83
345.00	344.98	0.3	156.6	1.49	2.41	58.	2.84
347.00	346.98	0.3	65.5	1.50	2.42	58.	2.85
349.00	348.98	0.3	81.4	1.51	2.43	58.	2.86
351.00	350.98	0.3	81.4	1.52	2.44	58.	2.87
353.00	352.98	0.3	149.3	1.52	2.45	58.	2.88
355.00	354.98	0.3	153.4	1.53	2.46	58.	2.89
357.00	356.98	0.3	153.4	1.53	2.47	58.	2.91
359.00	358.98	0.3	81.4	1.54	2.48	58.	2.92
361.00	360.98	0.3	81.4	1.54	2.49	58.	2.93
363.00	362.98	0.3	49.9	1.54	2.50	58.	2.94
365.00	364.98	0.3	49.9	1.54	2.51	58.	2.95
367.00	366.98	0.3	40.5	1.55	2.52	58.	2.96

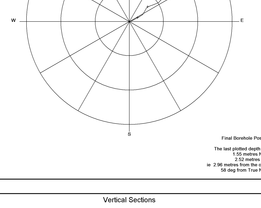
Cross Section

All Figures are Log Depths in metres

Plot With Respect to True North

Target Origin Depth 7.10
Last Plotted Depth 368.00
Depth Markers annotated in multiples of 50
First Depth Marker at 50
Last Depth Marker at 350

Scale 1:5
Declination 18.1 deg East



Final Borehole Position
The last plotted depth is at
2.52 metres East
2.52 metres East
or 2.96 metres from the origin
58 deg from True North

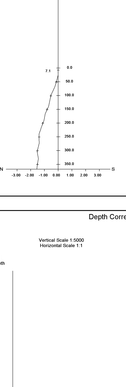
Vertical Sections

North-South Section

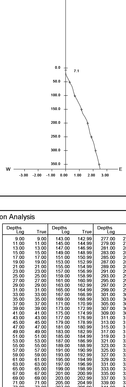
(True Depth vs Displacement)

Vertical Scale 1:5000
Horizontal Scale 1:100

Markers annotated as above



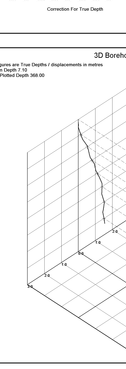
East-West Section



Depth Correction Analysis

Log Depth

Vertical Scale 1:5000
Horizontal Scale 1:1

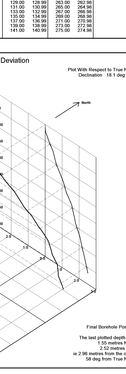


Depths		Depths		Depths	
Log	True	Log	True	Log	True
9.00	9.00	142.00	142.99	277.00	276.98
11.00	11.00	145.00	144.99	279.00	278.98
13.00	13.00	147.00	146.99	281.00	280.98
15.00	15.00	149.00	148.99	283.00	282.98
17.00	17.00	151.00	150.99	285.00	284.98
19.00	19.00	153.00	152.99	287.00	286.98
21.00	21.00	155.00	154.99	289.00	288.98
23.00	23.00	157.00	156.99	291.00	290.98
25.00	25.00	159.00	158.99	293.00	292.98
27.00	27.00	161.00	160.99	295.00	294.98
29.00	29.00	163.00	162.99	297.00	296.98
31.00	31.00	165.00	164.99	299.00	298.98
33.00	33.00	167.00	166.99	301.00	300.98
35.00	35.00	169.00	168.99	303.00	302.98
37.00	37.00	171.00	170.99	305.00	304.98
39.00	39.00	173.00	172.99	307.00	306.98
41.00	41.00	175.00	174.99	309.00	308.98
43.00	43.00	177.00	176.99	311.00	310.98
45.00	45.00	179.00	178.99	313.00	312.98
47.00	47.00	181.00	180.99	315.00	314.98
49.00	49.00	183.00	182.99	317.00	316.98
51.00	51.00	185.00	184.99	319.00	318.98
53.00	53.00	187.00	186.99	321.00	320.98
55.00	55.00	189.00	188.99	323.00	322.98
57.00	57.00	191.00	189.99	325.00	324.98
59.00	59.00	193.00	192.99	327.00	326.98
61.00	61.00	195.00	194.99	329.00	328.98
63.00	63.00	197.00	196.99	331.00	330.98
65.00	65.00	199.00	198.99	333.00	332.98
67.00	67.00	201.00	200.99	335.00	334.98
69.00	69.00	203.00	202.99	337.00	336.98
71.00	71.00	205.00	204.99	339.00	338.98
73.00	73.00	207.00	206.99	341.00	340.98
75.00	75.00	209.00	208.99	343.00	342.98
77.00	77.00	211.00	210.99	345.00	344.98
79.00	79.00	213.00	212.99	347.00	346.98
81.00	81.00	215.00	214.99	349.00	348.98
83.00	83.00	217.00	216.99	351.00	350.98
85.00	85.00	219.00	218.99	353.00	352.98
87.00	87.00	221.00	220.99	355.00	354.98
89.00	89.00	223.00	222.99	357.00	356.98
91.00	91.00	225.00	224.99	359.00	358.98
93.00	92.99	227.00	226.99	361.00	360.98
95.00	94.99	229.00	228.99	363.00	362.98
97.00	96.99	231.00	230.99	365.00	364.98
99.00	98.99	233.00	232.99	367.00	367.98
101.00	100.99	235.00	234.99		
103.00	102.99	237.00	236.99		
104.99	104.99	239.00	238.99		
107.00	106.99	241.00	240.99		
109.00	108.99	243.00	242.99		
111.00	110.99	245.00	244.99		
113.00	112.99	247.00	246.99		
115.00	114.99	249.00	248.99		
117.00	116.99	251.00	250.99		
119.00	118.99	253.00	252.99		
121.00	120.99	255.00	254.99		
123.00	122.99	257.00	256.99		
125.00	124.99	259.00	258.99		
127.00	126.99	261.00	260.99		
129.00	128.99	263.00	262.99		
131.00	130.99	265.00	264.98		
133.00	132.99	267.00	266.98		
135.00	134.99	269.00	268.98		
137.00	136.99	271.00	270.98		
139.00	138.99	273.00	272.98		
141.00	140.99	275.00	274.98		

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth 7.10
Last Plotted Depth 368.00

Plot With Respect to True North
Declination 18.1 deg East



Final Borehole Position
The last plotted depth is at
1.55 metres North
2.52 metres East
or 2.96 metres from the origin
58 deg from True North

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-021
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Drill Floor	metres
Elevation Ground Level	metres
Date Processed	14 JUL 2009
Date Logged	13 JUL 2009
Log Type	MWD
Log Run	1
Log Date	13 JUL 2009
Log Time	13:00
Log Depth	367.80
Depth Unit	metres
Depth Logger	367.80
Depth Log Interval	367.80
Depth Reference	KB
Log Reference	KB
Log Measured From	0.00
Permanent Datum	GROUND LEVEL
Drilling Measured From

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-022
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	168.30 metres
Elevation Drill Floor	metres	Depth Driller	168.68 metres
Elevation Ground Level	metres	Depth Logger	168.30 metres

| | | |

DUAL INDUCTION LATERALOG / SPHERICALLY FOCUSED RESISTIVITY / GAMMA RAY / CALIPER

Weatherford

Company	CONOCO PHILLIPS ALASKA, INC.
Well	KRU 1R-02
Field	KUPARUK
County	NORTH SLOPE
State	ALASKA
Location	1600' FSL & 1600' FEL
Other Services	NONE
Permanent Datum	MSL Elevation 0 ft above Perm. Datum
Log Measured From	RKB 25.00 ft above Perm. Datum
Drilling Measured From	RKB
API Serial No.	50-029-23241
Section	36
Township	11N
Range	10E
Date	12-Jun-2001
Run Number	ONE
Depth Driller	7900 ft
Depth Logger	7900 ft
Bottom Log Interval	7900 ft
Top Log Interval	6900 ft
Casing Driller	7900 ft @ 0 ft
Casing Logger	7900 ft
Bit Size	6.125 in
Type Fluid in Hole	QUIKDRILL-N
Density / Viscosity	10.0 lb/gal / 45 s
PH / Fluid Loss	9.0 / 4.8 cc
Source of Sample	FLOWLINE
Rm @ Measured Temp	0.93 @ 65.0 F
Rmf @ Measured Temp	0.74 @ 65.0 F
Rmc @ Measured Temp	1.12 @ 65.0 F
Rm @ BHT	0.47 @ 150.0 F
Time Since Circulation	12.0 hrs
Time Since Cement	
Max Rec. Temp.	150.0 F
Equipment Number	2304
Location	ALASKA
Recorded By	D. HOLLAND
Witnessed By	J. MCGUIRE

Run	Service	Date	Depth Driller	Depth Logger	Bottom Log Interval	Top Log Interval	Casing Driller	Casing Logger	Bit Size
ONE	DIL-SFL-GR-CAL	12-Jun-2001	7900	7900	7900	6900	7900 @ 0	7900	6.125

BOREHOLE RECORD

Bit No.	Size	From	To
ONE	6.125 in	7900 ft	0 ft

CASING RECORD

Type	Size	Weight	Grade	From	To
Surface	9.625 in	40.0 lb/ft	L-80	0 ft	7900 ft

REMARKS

CONDITIONS:
RIG: NABORS 19AC
MATRIX: SANDSTONE
FLUID: SALT WATER
DENSITY: 10.0 PPG
PH: 9.0
FLUID LEVEL: 0 FT
MAX DEVIATION: 37.1 DEG
MAX DOGLEG: 3.0 DEG/100 FT AT 1400 TO 1500 FT
MAX TEMP: 150 F
BHT: 150 F
TIME SINCE CIRCULATION: 12.0 HRS
TIME SINCE CEMENT:
RUN TIME: 12-JUN-01 AT 1400 TO 1500 FT
RUN TIME: 12-JUN-01 AT 1500 TO 1600 FT
RUN TIME: 12-JUN-01 AT 1600 TO 1700 FT
RUN TIME: 12-JUN-01 AT 1700 TO 1800 FT
RUN TIME: 12-JUN-01 AT 1800 TO 1900 FT
RUN TIME: 12-JUN-01 AT 1900 TO 2000 FT
RUN TIME: 12-JUN-01 AT 2000 TO 2100 FT
RUN TIME: 12-JUN-01 AT 2100 TO 2200 FT
RUN TIME: 12-JUN-01 AT 2200 TO 2300 FT
RUN TIME: 12-JUN-01 AT 2300 TO 2400 FT
RUN TIME: 12-JUN-01 AT 2400 TO 2500 FT
RUN TIME: 12-JUN-01 AT 2500 TO 2600 FT
RUN TIME: 12-JUN-01 AT 2600 TO 2700 FT
RUN TIME: 12-JUN-01 AT 2700 TO 2800 FT
RUN TIME: 12-JUN-01 AT 2800 TO 2900 FT
RUN TIME: 12-JUN-01 AT 2900 TO 3000 FT
RUN TIME: 12-JUN-01 AT 3000 TO 3100 FT
RUN TIME: 12-JUN-01 AT 3100 TO 3200 FT
RUN TIME: 12-JUN-01 AT 3200 TO 3300 FT
RUN TIME: 12-JUN-01 AT 3300 TO 3400 FT
RUN TIME: 12-JUN-01 AT 3400 TO 3500 FT
RUN TIME: 12-JUN-01 AT 3500 TO 3600 FT
RUN TIME: 12-JUN-01 AT 3600 TO 3700 FT
RUN TIME: 12-JUN-01 AT 3700 TO 3800 FT
RUN TIME: 12-JUN-01 AT 3800 TO 3900 FT
RUN TIME: 12-JUN-01 AT 3900 TO 4000 FT
RUN TIME: 12-JUN-01 AT 4000 TO 4100 FT
RUN TIME: 12-JUN-01 AT 4100 TO 4200 FT
RUN TIME: 12-JUN-01 AT 4200 TO 4300 FT
RUN TIME: 12-JUN-01 AT 4300 TO 4400 FT
RUN TIME: 12-JUN-01 AT 4400 TO 4500 FT
RUN TIME: 12-JUN-01 AT 4500 TO 4600 FT
RUN TIME: 12-JUN-01 AT 4600 TO 4700 FT
RUN TIME: 12-JUN-01 AT 4700 TO 4800 FT
RUN TIME: 12-JUN-01 AT 4800 TO 4900 FT
RUN TIME: 12-JUN-01 AT 4900 TO 5000 FT
RUN TIME: 12-JUN-01 AT 5000 TO 5100 FT
RUN TIME: 12-JUN-01 AT 5100 TO 5200 FT
RUN TIME: 12-JUN-01 AT 5200 TO 5300 FT
RUN TIME: 12-JUN-01 AT 5300 TO 5400 FT
RUN TIME: 12-JUN-01 AT 5400 TO 5500 FT
RUN TIME: 12-JUN-01 AT 5500 TO 5600 FT
RUN TIME: 12-JUN-01 AT 5600 TO 5700 FT
RUN TIME: 12-JUN-01 AT 5700 TO 5800 FT
RUN TIME: 12-JUN-01 AT 5800 TO 5900 FT
RUN TIME: 12-JUN-01 AT 5900 TO 6000 FT
RUN TIME: 12-JUN-01 AT 6000 TO 6100 FT
RUN TIME: 12-JUN-01 AT 6100 TO 6200 FT
RUN TIME: 12-JUN-01 AT 6200 TO 6300 FT
RUN TIME: 12-JUN-01 AT 6300 TO 6400 FT
RUN TIME: 12-JUN-01 AT 6400 TO 6500 FT
RUN TIME: 12-JUN-01 AT 6500 TO 6600 FT
RUN TIME: 12-JUN-01 AT 6600 TO 6700 FT
RUN TIME: 12-JUN-01 AT 6700 TO 6800 FT
RUN TIME: 12-JUN-01 AT 6800 TO 6900 FT
RUN TIME: 12-JUN-01 AT 6900 TO 7000 FT
RUN TIME: 12-JUN-01 AT 7000 TO 7100 FT
RUN TIME: 12-JUN-01 AT 7100 TO 7200 FT
RUN TIME: 12-JUN-01 AT 7200 TO 7300 FT
RUN TIME: 12-JUN-01 AT 7300 TO 7400 FT
RUN TIME: 12-JUN-01 AT 7400 TO 7500 FT
RUN TIME: 12-JUN-01 AT 7500 TO 7600 FT
RUN TIME: 12-JUN-01 AT 7600 TO 7700 FT
RUN TIME: 12-JUN-01 AT 7700 TO 7800 FT
RUN TIME: 12-JUN-01 AT 7800 TO 7900 FT

DIFFERENTIAL SPECIFICATIONS
DIFFERENTIAL SPECIFICATIONS
DIFFERENTIAL SPECIFICATIONS

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-022
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA CANADA

DIPMETER ANALYSIS

CLIENT	COMPLIANCE COAL CORP
WELL	RAV09-022
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA CANADA
LOCATION	
LAT/LONG	
SECTION	
TWP	
RGE	
W4	
ELEV	
KB	
DATE	Dipmeter Analysis
SURVEY	Dipmeter Analysis
RUN	ONE
ENGINEER	Dipmeter Analysis
DATE	15-Jul-2009
TIME	08:00
DEPTH	173.0 m
DRILLER	
TYPE FLUID	Water
DENSITY	1.000
VISCOSITY	1.000
PH	7.0
FLUID LOSS	0.0
RM @ MEASURED TEMP	0.000 @ 0.000
RMF @ MEASURED TEMP	0.000 @ 0.000
RMC @ MEASURED TEMP	0.000 @ 0.000
RM @ BHT	0.000
MATRIX	Sandstone
HOLE SIZE	0.000
TOOL TYPE	Dipmeter Analysis
TOOL SERIAL #	Dipmeter Analysis
DENS	
NEUTRON	
DT	
GR	
CALI	
SPECL	
TEMP	
MAX RECORDED TEMP	
CASING SIZE	139.7mm @ 0.00m, 244.5mm @ 119.30m
BIT SIZE	152.4mm
TIME CIRC. BEFORE RUN	
TIME LOGGED	
RIG	Dipmeter Analysis
REMARKS	

BOREHOLE RECORD

Last Edited: 13-JUL-2009 23:48

Bit Size millimetres	Depth From metres	Depth To metres
160.000	0.00	119.30
152.000	119.30	188.50

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	160.000	0.00	17.60	20.30

REMARKS

COORDINATES
NORTHING:
0463750
EASTING:
0969170

TOOL RUNS:
MAN., DDS, MAN.VERT, DIP, SONIC,SCANNER

BORE SMALL CONDITION: MEDIUM
BORE HOLE COND: GOOD

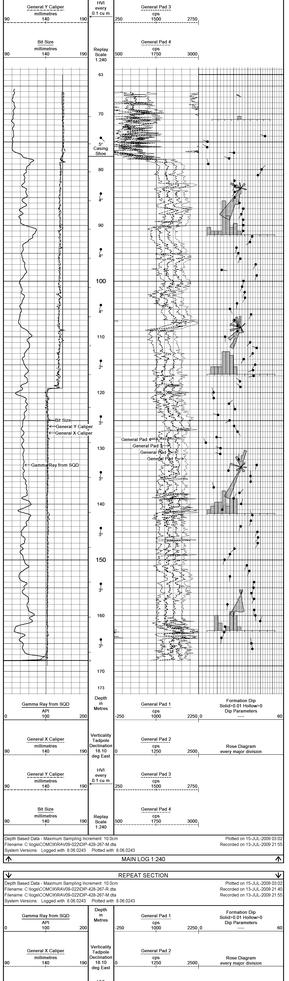
NON INVASIVE
WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

MAIN LOG 1:240

Depth Based Data - Maximum Sampling Increment: 10.0cm
Filename: C:\logic\COMOKRAV09-022\DIP-429-267-M.dta
System Versions: Logged with: 8.06.0240 Plotted with: 8.06.0243

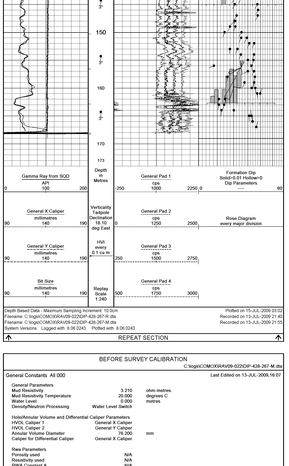
Plotted on 15-JUL-2009 03:02
Recorded on 13-JUL-2009 21:55



REPEAT SECTION

Depth Based Data - Maximum Sampling Increment: 10.0cm
Filename: C:\logic\COMOKRAV09-022\DIP-429-267-M.dta
System Versions: Logged with: 8.06.0240 Plotted with: 8.06.0243

Plotted on 15-JUL-2009 03:02
Recorded on 13-JUL-2009 21:55



BEFORE SURVEY CALIBRATION

C:\logic\COMOKRAV09-022\DIP-429-267-M.dta

Last Edited on 13-JUL-2009 16:57

General Constants A0.000

General Parameters		
Mud Resistivity	3.210	ohm-metres
Mud Resistivity Temperature	20.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Water Level Switch	

Hole/Annular Volume and Differential Caliper Parameters	
HVOL Caliper 1	General X Caliper
HVOL Caliper 2	General Y Caliper
Annular Volume Diameter	16.000 mm
Caliper for Differential Caliper	General X Caliper

Raw Parameters	
Resistivity	N/A
Resistivity used	N/A
RWA Constant A	N/A
RWA Constant M	N/A

Borehole Geometry Constants V04.267

Last Edited on 13-JUL-2009,16:06

Configuration	Diameter		
Magnetic Declination	18.10	degrees	East

Magnetometer Parameters V04.267

	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	215.000	214.000	196.000
Minimum	144.000	144.000	162.000

Level Cell Calibration V04.267

Field Calibration on 13-JUL-2009,16:06

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
119.00	119.00	20.00	204.00	204.00	0.00
139.00	139.00	15.00	224.00	224.00	5.00
149.00	149.00	10.00	235.00	235.00	15.00
155.00	154.00	-8.00	241.00	239.00	20.00
158.00	157.00	-6.00	0.00	0.00	0.00
167.00	166.00	-4.00	0.00	0.00	0.00
177.00	176.00	-2.00	0.00	0.00	0.00
180.00	179.00	0.00	0.00	0.00	0.00
187.00	186.00	2.00	0.00	0.00	0.00
192.00	192.00	4.00	0.00	0.00	0.00
201.00	200.00	6.00	0.00	0.00	0.00

Dipmeter Constants SQD 428

Last Edited on 13-JUL-2009,16:06

Search Angle	45.00	degrees
Correlation Interval	2.00	metres
Correlation Step	1.00	metres
Correlation Method Calculations	1	
Pad Current Filter Length	1	

Caliper Calibration SQD 428

Base Calibration on 13-JUL-2009,16:06

Base Calibration

Reading No	Measured X	Measured Y	Calibrator Size (mm)
1	152	152	76.20
2	219	298	101.60
3	417	429	127.00
4	566	576	152.40
5	1121	1121	203.20
6	1154	1158	254.00

Reading No	Pad 1 Offset (mm)	Pad 2 Offset (mm)	Pad 3 Offset (mm)	Pad 4 Offset (mm)
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000

Caliper Constants SQD 428

Caliper Difference for BIRKT 3.000 millimetres

Gamma Calibration SQD 428

Field Calibration on 13-JUL-2009,16:07

	Measured	Calibrated (API)
Background	9	75
Calibrator (Cross)	120	471
Calibrator (Net)	111	436

Gamma Constants SQD 428

Last Edited on 21-MAY-2009,11:06

Gamma Calibrator Number	425

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-022
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	158.30 metres
Elevation Drill Floor	metres	Depth Drilled	188.68 metres
Elevation Ground Level	metres	Depth Logger	188.30 metres

Weatherford

DIPMETER ANALYSIS

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-922		
FIELD	UNDEFINED		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Weatherford	DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER		

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

COMPLIANCE COAL CORP
RAV09-922
UNDEFINED
BRITISH COLUMBIA
CANADA

Date: 3-Jul-2009
Time: 9:38:00
Depth Reference: Kelly Bushing
Elevation: 0.00 m
Log Date: 3-Jul-2009
Log Time: 9:38:00
Log Number: 1
Run Number: 1
Depth Unit: Metres
Drilling Fluid: Water
Max Temp: 0 C
Max Rec Temp: 0 C
Bottom Hole Temp: 0 C
Equipment: 10-1000
Logging Unit: 10-1000
Logging Engineer: Fast
Witnessed By: Mr. Jim Cooper
Recorded By: Mr. Jim Cooper
Operating Rig Time: 0 Hrs
Max Deviation: 0 Deg
Depth Logged: 0 m
Depth Interpreted: 0 m
Depth Drilled: 0 m
Last Casing: 0 m
Last Casing Size: 0 mm
Last Casing Weight: 0 kg/m
Last Casing Grade: N/A
Last Casing Connection: N/A
Last Casing Shoe: 0 m
Last Casing Cement: N/A
Last Casing Cement Top: N/A
Last Casing Cement Bottom: N/A
Last Casing Cement Type: N/A
Last Casing Cement Density: N/A
Last Casing Cement Volume: N/A
Last Casing Cement Additives: N/A
Last Casing Cement Method: N/A
Last Casing Cement Pressure: N/A
Last Casing Cement Time: N/A
Last Casing Cement Temperature: N/A
Last Casing Cement Yield: N/A
Last Casing Cement Water: N/A
Last Casing Cement Slurry

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-022		
FIELD	UNDEFINED		
COUNTRY/STATE	BRITISH COLUMBIA		
	CANADA		
LOC	SEC	TWP	RGE
Licence Number			
Elevation KB (Elevation relative to Log Measured From GROUND LEVEL Above Permanent Datum)			
Elevation GL			
Other Services			

MINI PLOT

Log Measured From	GROUND LEVEL	Above Permanent Datum	metres
Drilling Measured From	GROUND LEVEL		metres

Run Number	1			metres
Date	13-JUL-2009			
Depth Driller	169.30			metres
Depth Logger	169.30			metres
First Reading	168.60			metres
Last Reading	169.30			metres
Casing Driller	77.60			metres
Casing Logger	77.60			metres
Bit Size	142.000			millimetres
Fluid in Hole	WATER			
Max Recorded Temp				
Time Since Circulation				
Time Since Cement				
Equipment / Base				
Witnessed By				
Operator	11636			
	O.CULLINGHAM			
Equipment	RGR			

BOREHOLE RECORD

Last Edited: 13-JUL-2009 23:48

Bit Size millimetres	Depth From metres	Depth To metres
160.000	0.00	119.30
142.000	119.30	169.30

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	160.000	0.00	77.60	25.30

REMARKS

COORDINATES:
NORTHING:
5492700

EASTING:
366170

TOOL RUNS:
RRS , DDS ,NN2, VRT ,DIP, 9ONIC,SCANNER

BORE WALL COND : MEDIUM
BORE HOLE COND : GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

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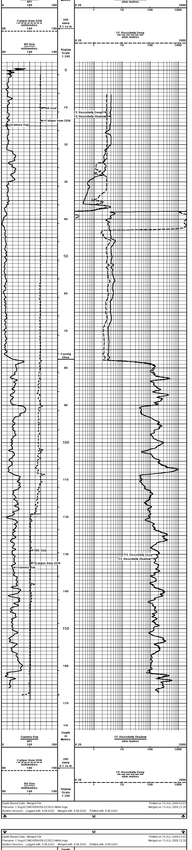
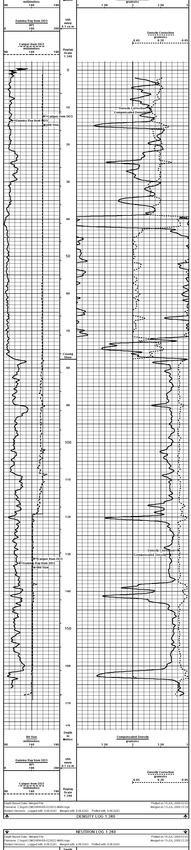
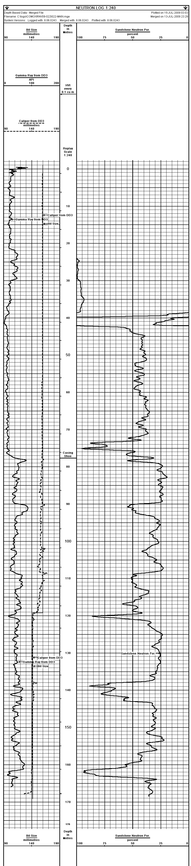
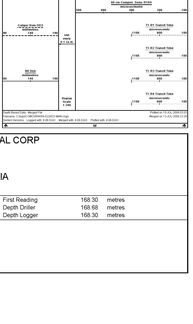
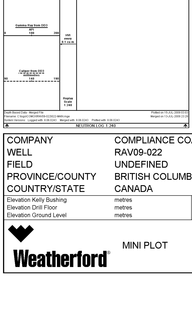










COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-022
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	168.30	metres
Elevation Drill Floor	metres	Depth Driller	168.68	metres
Elevation Ground Level	metres	Depth Logger	168.30	metres

Weatherford

MINI PLOT

Westerner

EMPLOYEE CLUB CORP
WELL: 1
ARTICHOKE
PARK COUNTY, COLORADO
CARBON
Date: 2-Dec-2011
Time: 15:00 - 17:00
Depth: 7000 - 7500 ft
Scale: 1:240
Logged by: 1
Operator: 1
Serial Number: 0000
Max Temp: 0 degC
Max Pressure: 0 psi
Sensor Offset: 0.00 ft
Sensor Type: Standard
Tool Type: Gamma Ray

Gamma Ray Calibration
Calibrator Value: 0 API
Background Before: 0 API
Background After: 0 API
Calibrator Value: 0 API
Background Before: 0 API
Background After: 0 API

Comments
Logged:
Operator:
Equipment:
Tool:
Tool Zero: 0.00 ft
Tool Zero Time: 00:00:00
Tool Zero Temp: 0 degC
Tool Zero Pressure: 0 psi
Tool Zero Date:
Tool Zero Operator:
Tool Zero Serial Number: 0

Depth Correlation

Depth	Correlation	Depth	Correlation	Depth	Correlation
7000.00	7000.00				

Logging Speed

Depth	Speed	Depth	Speed	Depth	Speed
7000.00	30.00				

Comments
Logged:
Operator:
Equipment:
Tool:
Tool Zero: 0.00 ft
Tool Zero Time: 00:00:00
Tool Zero Temp: 0 degC
Tool Zero Pressure: 0 psi
Tool Zero Date:
Tool Zero Operator:
Tool Zero Serial Number: 0

60CM COMPENSATED SONIC

Log Date	15-JUL-2009
Log Time	23:00
Log Number	1
Run Number	1
Depth Reference	KB
Elevation	0.00
Permanent Datum	GL
Elevation	0.00
Log Measured From	KB
Drilling Measured From	KB
Elevation	0.00
Date	15-JUL-2009
Time	23:00
Max Recorded Temperature	25 DEG
Bottom Hole Temperature	25 DEG
Equipment	1
Location	1
Recorded by	1
Witnessed by	1

BOREHOLE RECORD			
Bit Size	Depth From	Depth To	
100.00 MM	0.00	1.00	
100.00 MM	1.00	1.00	

CASING RECORD			
Type	Size	Weight/Feet	Grade
CONDUCTOR	100.00 MM	0.00 LB	

Last Date	15-JUL-2009 23:00
Depth To	1.00
Depth To	1.00

Run Number	1
Depth Driller	1.00
Depth Logged	1.00
Driller's Casing	0.00
Logging Speed	0 FPM
Logging Speed	0 FPM
Logging Speed	0 FPM

VERTICALITY ANALYSIS

COMPLIANCE COAL CORP
RAVO9-022
BRITISH COLUMBIA
CANADA

Date	Time	Depth	Azimuth	Inclination	Tool Face	Comment
14-JUL-2009	09:00:00	0.00	0.00	0.00	0.00	Begin Survey
	09:05:00	100.00	0.00	0.00	0.00	
	09:10:00	200.00	0.00	0.00	0.00	
	09:15:00	300.00	0.00	0.00	0.00	
	09:20:00	400.00	0.00	0.00	0.00	
	09:25:00	500.00	0.00	0.00	0.00	
	09:30:00	600.00	0.00	0.00	0.00	
	09:35:00	700.00	0.00	0.00	0.00	
	09:40:00	800.00	0.00	0.00	0.00	
	09:45:00	900.00	0.00	0.00	0.00	
	09:50:00	1000.00	0.00	0.00	0.00	
	09:55:00	1100.00	0.00	0.00	0.00	
	10:00:00	1200.00	0.00	0.00	0.00	
	10:05:00	1300.00	0.00	0.00	0.00	
	10:10:00	1400.00	0.00	0.00	0.00	
	10:15:00	1500.00	0.00	0.00	0.00	
	10:20:00	1600.00	0.00	0.00	0.00	
	10:25:00	1700.00	0.00	0.00	0.00	
	10:30:00	1800.00	0.00	0.00	0.00	
	10:35:00	1900.00	0.00	0.00	0.00	
	10:40:00	2000.00	0.00	0.00	0.00	
	10:45:00	2100.00	0.00	0.00	0.00	
	10:50:00	2200.00	0.00	0.00	0.00	
	10:55:00	2300.00	0.00	0.00	0.00	
	11:00:00	2400.00	0.00	0.00	0.00	
	11:05:00	2500.00	0.00	0.00	0.00	
	11:10:00	2600.00	0.00	0.00	0.00	
	11:15:00	2700.00	0.00	0.00	0.00	
	11:20:00	2800.00	0.00	0.00	0.00	
	11:25:00	2900.00	0.00	0.00	0.00	
	11:30:00	3000.00	0.00	0.00	0.00	
	11:35:00	3100.00	0.00	0.00	0.00	
	11:40:00	3200.00	0.00	0.00	0.00	
	11:45:00	3300.00	0.00	0.00	0.00	
	11:50:00	3400.00	0.00	0.00	0.00	
	11:55:00	3500.00	0.00	0.00	0.00	
	12:00:00	3600.00	0.00	0.00	0.00	
	12:05:00	3700.00	0.00	0.00	0.00	
	12:10:00	3800.00	0.00	0.00	0.00	
	12:15:00	3900.00	0.00	0.00	0.00	
	12:20:00	4000.00	0.00	0.00	0.00	
	12:25:00	4100.00	0.00	0.00	0.00	
	12:30:00	4200.00	0.00	0.00	0.00	
	12:35:00	4300.00	0.00	0.00	0.00	
	12:40:00	4400.00	0.00	0.00	0.00	
	12:45:00	4500.00	0.00	0.00	0.00	
	12:50:00	4600.00	0.00	0.00	0.00	
	12:55:00	4700.00	0.00	0.00	0.00	
	13:00:00	4800.00	0.00	0.00	0.00	
	13:05:00	4900.00	0.00	0.00	0.00	
	13:10:00	5000.00	0.00	0.00	0.00	
	13:15:00	5100.00	0.00	0.00	0.00	
	13:20:00	5200.00	0.00	0.00	0.00	
	13:25:00	5300.00	0.00	0.00	0.00	
	13:30:00	5400.00	0.00	0.00	0.00	
	13:35:00	5500.00	0.00	0.00	0.00	
	13:40:00	5600.00	0.00	0.00	0.00	
	13:45:00	5700.00	0.00	0.00	0.00	
	13:50:00	5800.00	0.00	0.00	0.00	
	13:55:00	5900.00	0.00	0.00	0.00	
	14:00:00	6000.00	0.00	0.00	0.00	
	14:05:00	6100.00	0.00	0.00	0.00	
	14:10:00	6200.00	0.00	0.00	0.00	
	14:15:00	6300.00	0.00	0.00	0.00	
	14:20:00	6400.00	0.00	0.00	0.00	
	14:25:00	6500.00	0.00	0.00	0.00	
	14:30:00	6600.00	0.00	0.00	0.00	
	14:35:00	6700.00	0.00	0.00	0.00	
	14:40:00	6800.00	0.00	0.00	0.00	
	14:45:00	6900.00	0.00	0.00	0.00	
	14:50:00	7000.00	0.00	0.00	0.00	
	14:55:00	7100.00	0.00	0.00	0.00	
	15:00:00	7200.00	0.00	0.00	0.00	
	15:05:00	7300.00	0.00	0.00	0.00	
	15:10:00	7400.00	0.00	0.00	0.00	
	15:15:00	7500.00	0.00	0.00	0.00	
	15:20:00	7600.00	0.00	0.00	0.00	
	15:25:00	7700.00	0.00	0.00	0.00	
	15:30:00	7800.00	0.00	0.00	0.00	
	15:35:00	7900.00	0.00	0.00	0.00	
	15:40:00	8000.00	0.00	0.00	0.00	
	15:45:00	8100.00	0.00	0.00	0.00	
	15:50:00	8200.00	0.00	0.00	0.00	
	15:55:00	8300.00	0.00	0.00	0.00	
	16:00:00	8400.00	0.00	0.00	0.00	
	16:05:00	8500.00	0.00	0.00	0.00	
	16:10:00	8600.00	0.00	0.00	0.00	
	16:15:00	8700.00	0.00	0.00	0.00	
	16:20:00	8800.00	0.00	0.00	0.00	
	16:25:00	8900.00	0.00	0.00	0.00	
	16:30:00	9000.00	0.00	0.00	0.00	
	16:35:00	9100.00	0.00	0.00	0.00	
	16:40:00	9200.00	0.00	0.00	0.00	
	16:45:00	9300.00	0.00	0.00	0.00	
	16:50:00	9400.00	0.00	0.00	0.00	
	16:55:00	9500.00	0.00	0.00	0.00	
	17:00:00	9600.00	0.00	0.00	0.00	
	17:05:00	9700.00	0.00	0.00	0.00	
	17:10:00	9800.00	0.00	0.00	0.00	
	17:15:00	9900.00	0.00	0.00	0.00	
	17:20:00	9950.00	0.00	0.00	0.00	
	17:25:00	9960.00	0.00	0.00	0.00	
	17:30:00	9970.00	0.00	0.00	0.00	
	17:35:00	9980.00	0.00	0.00	0.00	
	17:40:00	9990.00	0.00	0.00	0.00	
	17:45:00	9995.00	0.00	0.00	0.00	
	17:50:00	9998.00	0.00	0.00	0.00	
	17:55:00	9999.00	0.00	0.00	0.00	
	18:00:00	10000.00	0.00	0.00	0.00	End Survey

BOREHOLE RECORD

Bit Size millimetres	Depth From metres	Depth To metres
160.000	0.00	119.30
142.000	119.30	199.30

Last Edited: 13-JUL-2009 23:49

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	140.000	0.00	77.40	25.30

REMARKS

COORDINATES
NORTHING
0400700

EASTING
380170

TOOL RUNS
IRIS, DDI, RAD, VRT, DP, SONIC,SCANNER

BORE WALL CONDI - MEDIUM
BORE HOLE CONDI - GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

Verticality Analysis Interpretation Notes

14-JUL-2009 00:00

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:48000(imperial), and the minimum 1:1.

The analysis is derived by integration of the 100m sampled data across the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH — The depth recorded on the field logs for the borehole.

TRUE DEPTH — The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.

HOLE TILT AND AZIMUTH — The sampled borehole orientation.

AXIAL COORDINATES — The coordinates North and East from the target origin.

POLAR COORDINATES — The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logxc\COMGORAVO9-022GOP.42B.267.dfb
All Co-ordinates With Respect To True North, all depths in metres

Date Processed: 14-JUL-2009
Date Logged: 10-JUL-2009

Final Depth: 83.80, 9.00 North, 0.00 East of Origin

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR	
Log	True	Tilt	Azi	North	East	Dog	Radius
84.00	84.00	3.6	149.1	-0.01	0.01	144	0.01
85.00	85.00	4.0	147.7	-0.05	0.05	135	0.07
86.00	86.00	4.0	156.9	-0.11	0.09	141	0.14
87.00	87.00	4.4	154.7	-0.17	0.14	140	0.22
88.00	87.99	4.4	144.2	-0.22	0.19	144	0.27
89.00	88.99	4.5	169.6	-0.26	0.20	144	0.34
90.00	89.99	4.7	171.1	-0.31	0.21	146	0.41
71.00	70.98	4.7	159.7	-0.43	0.36	145	0.56
72.00	71.98	4.9	143.9	-0.49	0.31	147	0.58
73.00	72.97	5.1	97.1	-0.51	0.37	147	0.63
74.00	73.97	5.1	65.7	-0.49	0.45	137	0.66
75.00	74.96	5.1	145.5	-0.54	0.49	137	0.73
76.00	75.96	5.1	143.5	-0.58	0.58	134	0.81
77.00	76.96	5.1	155.2	-0.62	0.64	134	0.89
78.00	77.95	5.1	167.3	-0.67	0.68	135	0.95
79.00	78.95	5.1	201.5	-0.77	0.69	138	1.03
80.00	79.95	4.9	198.4	-0.85	0.68	142	1.09
81.00	80.94	4.9	192.8	-0.92	0.64	145	1.15
82.00	81.94	5.0	193.9	-0.98	0.58	146	1.21
83.00	82.94	5.1	203.1	-1.11	0.63	151	1.27
84.00	83.94	4.9	195.0	-1.19	0.59	153	1.33
85.00	84.93	4.9	198.4	-1.26	0.59	155	1.41
86.00	85.93	4.9	198.5	-1.33	0.57	156	1.48
87.00	86.92	4.9	198.5	-1.44	0.56	158	1.55
88.00	87.92	4.7	189.0	-1.53	0.55	160	1.62
89.00	88.92	4.7	189.0	-1.61	0.54	161	1.69
90.00	89.91	5.0	194.9	-1.69	0.52	163	1.77
91.00	90.91	4.5	200.1	-1.77	0.50	164	1.84
91.00	91.90	4.7	189.4	-1.84	0.48	165	1.90
92.00	92.90	4.7	200.6	-1.92	0.46	166	1.96
93.00	93.90	4.7	208.9	-2.02	0.48	165	2.05
94.00	94.89	4.5	205.8	-2.08	0.45	168	2.13
96.00	95.89	4.4	205.2	-2.16	0.43	169	2.20
97.00	96.89	4.4	198.0	-2.23	0.42	170	2.26
98.00	97.89	4.2	196.0	-2.31	0.40	169	2.34
99.00	98.88	4.5	196.2	-2.38	0.39	171	2.41
100.00	99.88	4.5	196.2	-2.46	0.38	171	2.49
101.00	100.88	4.3	205.2	-2.53	0.36	172	2.56
102.00	101.87	4.3	187.9	-2.60	0.35	172	2.63
103.00	102.87	4.3	198.5	-2.67	0.33	173	2.69
104.00	103.87	4.1	198.0	-2.74	0.32	173	2.76
105.00	104.87	4.1	198.0	-2.81	0.31	174	2.83
106.00	105.86	4.1	198.2	-2.88	0.29	174	2.90
107.00	106.86	4.1	199.2	-2.95	0.29	175	2.97
108.00	107.86	3.9	198.5	-3.02	0.28	175	3.04
109.00	108.86	3.9	204.5	-3.08	0.26	175	3.09
110.00	109.86	3.6	202.8	-3.14	0.25	175	3.15
111.00	110.85	3.5	202.8	-3.19	0.24	176	3.21
112.00	111.85	3.3	205.0	-3.25	0.23	176	3.26
113.00	112.85	3.3	187.6	-3.31	0.23	176	3.32
114.00	113.85	2.6	181.1	-3.36	0.23	176	3.37
115.00	114.85	2.8	185.4	-3.41	0.22	176	3.42
116.00	115.84	3.0	187.9	-3.46	0.22	176	3.47
117.00	116.84	3.2	192.6	-3.51	0.22	176	3.52
118.00	117.84	3.1	189.6	-3.56	0.22	176	3.57
119.00	118.84	3.1	189.6	-3.61	0.22	176	3.62
120.00	119.84	3.1	190.0	-3.67	0.22	177	3.68
121.00	120.84	3.3	189.0	-3.72	0.22	177	3.73
122.00	121.84	3.3	192.6	-3.78	0.22	177	3.79
123.00	122.84	3.1	192.9	-3.83	0.22	177	3.84
124.00	123.84	3.1	179.1	-3.88	0.22	177	3.89
125.00	124.83	3.1	192.0	-3.94	0.22	177	3.94
126.00	125.83	3.3	188.5	-3.99	0.22	177	3.99
127.00	126.83	3.5	188.5	-4.04	0.22	177	4.04
128.00	127.83	3.6	188.5	-4.10	0.22	177	4.10
129.00	128.83	3.3	186.9	-4.15	0.22	177	4.16
130.00	129.83	3.5	186.9	-4.21	0.22	177	4.21
131.00	130.83	3.5	188.5	-4.26	0.22	177	4.27
132.00	131.82	3.1	192.4	-4.32	0.22	177	4.32
133.00	132.82	3.1	192.9	-4.37	0.22	177	4.38
134.00	133.82	3.1	189.6	-4.42	0.22	177	4.43
135.00	134.82	3.3	192.5	-4.48	0.22	177	4.49
136.00	135.82	3.3	188.5	-4.54	0.22	177	4.54
137.00	136.82	3.5	187.2	-4.60	0.22	177	4.60
138.00	137.81	3.5	188.5	-4.65	0.22	177	4.66
139.00	138.81	3.5	189.9	-4.71	0.22	177	4.73
140.00	139.81	3.1	186.8	-4.79	0.21	177	4.78
141.00	140.81	3.1	189.6	-4.84	0.21	178	4.84
142.00	141.81	3.1	193.5	-4.90	0.21	178	4.90
143.00	142.80	3.1	185.2	-4.96	0.21	178	4.96
144.00	143.80	3.1	185.9	-5.02	0.21	178	5.02
145.00	144.80	3.1	192.5	-5.07	0.21	178	5.08
146.00	145.80	3.1	189.6	-5.13	0.21	178	5.14
147.00	146.80	3.3	187.7	-5.20	0.22	178	5.20
148.00	147.80	3.6	184.1	-5.26	0.22	178	5.26
149.00	148.79	3.6	184.1	-5.32	0.22	178	5.32
150.00	149.79	3.6	187.7	-5.39	0.22	178	5.39
151.00	150.79	3.2	182.1	-5.44	0.23	178	5.45
152.00	151.79	3.2	189.6	-5.49	0.23	178	5.50
153.00	152.78	3.2	189.4	-5.56	0.24	178	5.57
154.00	153.78	3.2	183.2	-5.62	0.25	177	5.63
155.00	154.78	3.6	179.2	-5.68	0.26	177	5.69
156.00	155.78	3.3	182.0	-5.74	0.27	177	5.75
157.00	156.78	3.3	182.1	-5.81	0.28	177	5.81
158.00	157.78	3.3	180.1	-5.85	0.29	177	5.88
159.00	158.78	3.3	172.5	-5.91	0.30	177	5.91
160.00	159.77	3.3	172.5	-5.97	0.32	177	5.97
161.00	160.77	3.3	175.6	-6.01	0.34	177	6.02
162.00	161.77	3.1	176.8	-6.06	0.33	177	6.07
163.00	162.77	2.9	176.8	-6.10	0.35	177	6.11
164.00	163.77	2.9	175.6	-6.16	0.36	177	6.17
165.00	164.77	3.1	178.5	-6.21	0.37	177	6.22

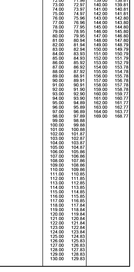
Cross Section

All Figures are Log Depths in metres

Target Origin Depth 63.80
Last Plotted Depth 199.00
Depth Markers annotated in multiples of 10
Plot Scale Factor 1:1000
Last Depth Marker at 160

Plot With Respect to True North

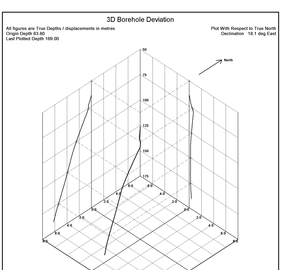
Scale 1:100
Declination 18.1 deg East



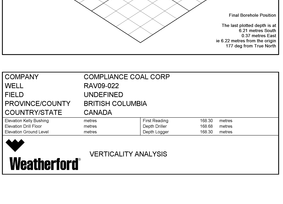
Final Borehole Position

The last plotted depth is at
9.21 metres South
0.57 metres East
ie 6.22 metres from the origin
177 deg from True North

Vertical Sections



Depth Correction Analysis



Depths		Depths	
Log	True	Log	True
64.00	64.00	131.00	130.83
65.00	65.00	132.00	131.82
66.00	66.00	133.00	132.82
67.00	67.00	134.00	133.82
68.00	67.99	135.00	134.82
69.00	68.99	136.00	135.82
70.00	69.99	137.00	136.82
71.00	70.98	138.00	137.81
72.00	71.98	139.00	138.81
73.00	72.97	140.00	139.81
74.00	73.97	141.00	140.81
75.00	74.96	142.00	141.80
76.00	75.96	143.00	142.80
77.00	76.96	144.00	143.80
78.00	77.95	145.00	144.80
79.00	78.95	146.00	145.80
80.00	79.95	147.00	146.80
81.00	80.94	148.00	147.80
82.00	81.94	149.00	148.79
83.00	82.94	150.00	149.79
84.00	83.94	151.00	150.79
85.00	84.93	152.00	151.79
86.00	85.93	153.00	152.78
87.00	86.92	154.00	153.78
88.00	87.92	155.00	154.78
89.00	88.92	156.00	155.78
90.00	89.91	157.00	156.78
91.00	90.91	158.00	157.78
92.00	91.90	159.00	158.78
93.00	92.90	160.00	159.77
94.00	93.90	161.00	160.77
95.00	94.89	162.00	161.77
96.00	95.89	163.00	162.77
97.00	96.89	164.00	163.77
98.00	97.89	165.00	164.77
99.00	98.88	166.00	165.77
100.00	99.88		
101.00	100.88		
102.00	101.87		
103.00	102.87		
104.00	103.87		
105.00	104.87		
106.00	105.86		
107.00	106.86		
108.00	107.86		
109.00	108.86		
110.00	109.86		
111.00	110.85		
112.00	111.85		
113.00	112.85		
114.00	113.85		
115.00	114.85		
116.00	115.84		
117.00	116.84		
118.00	117.84		
119.00	118.84		
120.00	119.84		
121.00	120.84		
122.00	121.84		
123.00	122.84		
124.00	123.84		
125.00	124.83		
126.00	125.83		
127.00	126.83		
128.00	127.83		
129.00	128.83		
130.00	129.83		

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth 63.80
Last Plotted Depth 199.00

Plot With Respect to True North
Declination 18.1 deg East

Final Borehole Position

The last plotted depth is at
9.21 metres South
0.57 metres East
ie 6.22 metres from the origin
177 deg from True North

COMPANY	COMPLIANCE COAL CORP
WELL	RAVO9-022
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	159.30 metres
Elevation Drill Floor	metres	Depth Driller	159.69 metres
Elevation Ground Level	metres	Depth Logger	159.30 metres

Weatherford

VERTICALITY ANALYSIS

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-022
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	168.30 metres
Elevation Drill Floor	metres	Depth Driller	168.68 metres
Elevation Ground Level	metres	Depth Logger	168.30 metres

| | | |

Weatherford

COAL DETAIL TUBE

COMPANY	TALISMAN ENERGY USA INC
WELL	UNDEFINED
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
LOCATION	0-0-0-0
	COAL LITHOLOGY
	GAMMA RAY, CALIPER
	COAL DETAIL (DAMS)

SURFACE MEASURE

Kelly Bushing		Ground Level		Kelly Bushing to Ground Level
0.00 m		0.00 m		0.00 m
Log Measured From		**Drilling Measured From**		
0.00 m		0.00 m		

PERMANENT

Permanent Datum	
Elevation	
Log Measured From	
Drilling Measured From	
Date	2007-07-05
Time	00:00
Run Number	ONE
Depth Driller	1.00 m
Depth Logger	1.00 m
Bottom Logged Interval	1.00 m
Top Logged Interval	0.00 m
Drilling Fluid Type	AIR
Drilling Fluid Density	
Drilling Fluid Viscosity	
Drilling Fluid PH	
Drilling Fluid Resistivity	
Drilling Fluid Sample Source	
Rm Measured Temperature	
Rmf Measured Temperature	
Rmc Measured Temperature	
Rm at Measured Temperature	
Rmf at Measured Temperature	
Rmc at Measured Temperature	
Source of Rmf and Rmc	
Rm at BHT	
Rmf at BHT	
Rmc at BHT	
Maximum Recorded Temperature	
Equipment Number	
Location	
Recorded By	
Witnessed By	

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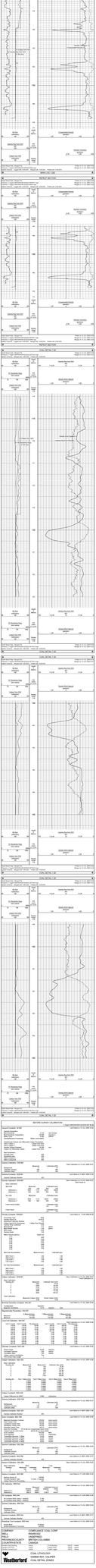


PRESENT

Permanent Datum	
Elevation	
Log Measured From	
Drilling Measured From	
Date	2007-07-05
Time	00:00
Run Number	ONE
Depth Driller	1.00 m
Depth Logger	1.00 m
Bottom Logged Interval	1.00 m
Top Logged Interval	0.00 m
Drilling Fluid Type	AIR
Drilling Fluid Density	
Drilling Fluid Viscosity	
Drilling Fluid PH	
Drilling Fluid Resistivity	
Drilling Fluid Sample Source	
Rm Measured Temperature	
Rmf Measured Temperature	
Rmc Measured Temperature	
Rm at Measured Temperature	
Rmf at Measured Temperature	
Rmc at Measured Temperature	
Source of Rmf and Rmc	
Rm at BHT	
Rmf at BHT	
Rmc at BHT	
Maximum Recorded Temperature	
Equipment Number	
Location	
Recorded By	
Witnessed By	

COAL DETAIL TUBE

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-022
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA CANADA

DIPMETER ANALYSIS

CLIENT	COMPLIANCE COAL CORP
WELL	RAV09-022
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA CANADA
LOCATION	
LAT/LONG	
SECTION	
TWP	
RGE	
W4	
ELEV	
KB	
DATE	Dipmeter Analysis
SURVEY	Dipmeter Analysis
RUN	ONE
ENGINEER	Dipmeter Analysis
DATE	15-Jul-2009
TIME	08:00
DEPTH	173.0 m
DRILLER	
TYPE FLUID	Water
DENSITY	1.000
VISCOSITY	1.000
PH	7.0
FLUID LOSS	0.0
RM @ MEASURED TEMP	0.000 @ 0.000
RMF @ MEASURED TEMP	0.000 @ 0.000
RMC @ MEASURED TEMP	0.000 @ 0.000
RM @ BHT	0.000
MATRIX	Sandstone
HOLE SIZE	0.000
TOOL TYPE	Dipmeter Analysis
TOOL SERIAL #	Dipmeter Analysis
DENS	
NEUTRON	
DT	
GR	
CALI	
SPECL	
TEMP	
MAX RECORDED TEMP	
CASING SIZE	139.7mm @ 0.00m, 244.5mm @ 119.30m
BIT SIZE	152.4mm
TIME CIRC. BEFORE RUN	
TIME LOGGED	
RIG	Dipmeter Analysis
REMARKS	

BOREHOLE RECORD

Last Edited: 13-JUL-2009 23:48

Bit Size millimetres	Depth From metres	Depth To metres
160.000	0.00	119.30
152.000	119.30	188.50

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	160.000	0.00	17.60	20.30

REMARKS

COORDINATES
NORTHING:
0463750
EASTING:
0969170

TOOL RUNS:
MAN., DDS, MAN.VERT, DIP, SONIC,SCANNER

BORE SMALL CONDITION: MEDIUM
BORE HOLE COND: GOOD

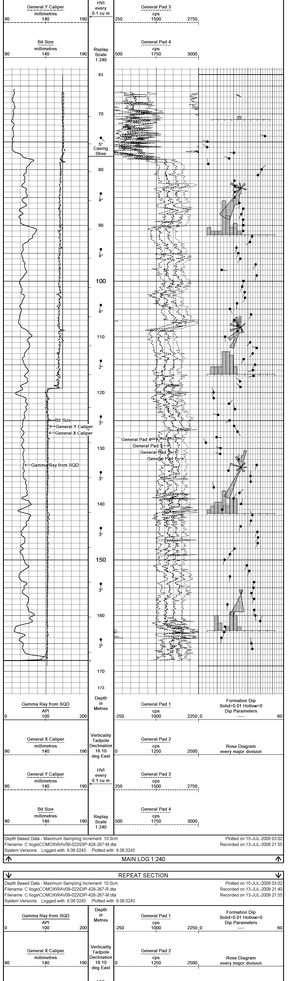
NON INVASIVE
WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

MAIN LOG 1:240

Depth Based Data - Maximum Sampling Increment: 10.0cm
Filename: C:\logic\COMOKRAV09-022\DIP-429-267-M.dta
System Versions: Logged with: 8.06.0240 Plotted with: 8.06.0243

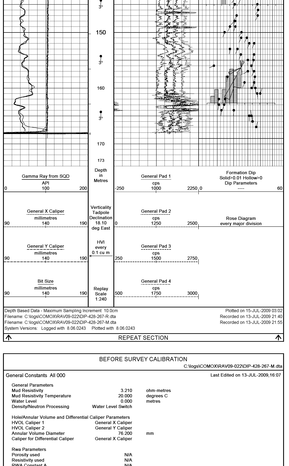
Plotted on 15-JUL-2009 03:02
Recorded on 13-JUL-2009 21:55



REPEAT SECTION

Depth Based Data - Maximum Sampling Increment: 10.0cm
Filename: C:\logic\COMOKRAV09-022\DIP-429-267-M.dta
System Versions: Logged with: 8.06.0240 Plotted with: 8.06.0243

Plotted on 15-JUL-2009 03:02
Recorded on 13-JUL-2009 21:55



BEFORE SURVEY CALIBRATION

C:\logic\COMOKRAV09-022\DIP-429-267-M.dta

Last Edited on 13-JUL-2009 16:57

General Constants A0.000

General Parameters		
Mud Resistivity	3.210	ohm-metres
Mud Resistivity Temperature	20.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Water Level Switch	

Hole/Annular Volume and Differential Caliper Parameters	
HVOL Caliper 1	General X Caliper
HVOL Caliper 2	General Y Caliper
Annular Volume Diameter	16.000 mm
Caliper for Differential Caliper	General X Caliper

Raw Parameters	
Resistivity	N/A
Resistivity used	N/A
RWA Constant A	N/A
RWA Constant M	N/A

Borehole Geometry Constants V04.267

Last Edited on 13-JUL-2009,16:06

Configuration	Diameter		
Magnetic Declination	18.10	degrees	East

Magnetometer Parameters V04.267

	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	215.000	214.000	196.000
Minimum	144.000	144.000	162.000

Level Cell Calibration V04.267

Field Calibration on 13-JUL-2009,16:06

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
119.00	119.00	20.00	204.00	204.00	0.00
139.00	139.00	15.00	224.00	224.00	5.00
149.00	149.00	10.00	235.00	235.00	15.00
155.00	154.00	-8.00	241.00	239.00	20.00
158.00	157.00	-6.00	0.00	0.00	0.00
167.00	166.00	-4.00	0.00	0.00	0.00
177.00	176.00	-2.00	0.00	0.00	0.00
180.00	179.00	0.00	0.00	0.00	0.00
187.00	186.00	2.00	0.00	0.00	0.00
192.00	192.00	4.00	0.00	0.00	0.00
201.00	200.00	6.00	0.00	0.00	0.00

Dipmeter Constants SQD 428

Last Edited on 13-JUL-2009,16:06

Search Angle	45.00	degrees
Correlation Interval	2.00	metres
Correlation Step	1.00	metres
Correlation Method Calculations	1	
Pad Current Filter Length	1	

Caliper Calibration SQD 428

Base Calibration on 13-JUL-2009,16:06

Base Calibration

Reading No	Measured X	Measured Y	Calibrator Size (mm)
1	152	152	76.20
2	219	298	101.60
3	417	429	127.00
4	566	576	152.40
5	1121	1121	203.20
6	1154	1158	254.00

Reading No	Pad 1 Offset (mm)	Pad 2 Offset (mm)	Pad 3 Offset (mm)	Pad 4 Offset (mm)
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000

Caliper Constants SQD 428

Caliper Difference for BIRKT 3.000 millimetres

Gamma Calibration SQD 428

Field Calibration on 13-JUL-2009,16:07

	Measured	Calibrated (API)
Background	9	75
Calibrator (Cross)	120	471
Calibrator (Net)	111	436

Gamma Constants SQD 428

Last Edited on 21-MAY-2009,11:06

Gamma Calibrator Number	425

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-022
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	158.30 metres
Elevation Drill Floor	metres	Depth Drilled	188.68 metres
Elevation Ground Level	metres	Depth Logger	188.30 metres

Weatherford

DIPMETER ANALYSIS

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-922		
FIELD	UNDEFINED		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Weatherford	DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER		

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

COMPLIANCE COAL CORP
RAV09-922
UNDEFINED
BRITISH COLUMBIA
CANADA

Date: 3-Jul-2009
Time: 9:38:00
Depth Reference: Kelly Bushing
Elevation: 0.00 m
Log Date: 3-Jul-2009
Log Time: 9:38:00
Log Number: 1
Run Number: 1
Depth Unit: Metres
Drilling Fluid: Water
Max Temp: 0 C
Max Rec Temp: 0 C
Bottom Hole Temp: 0 C
Equipment: 10-1000
Logging Unit: 10-1000
Logging Engineer: Fast
Witnessed By: Mr. Jim Cooper
Recorded By: Mr. Jim Cooper
Operating Rig Time: 0 Hrs
Max Deviation: 0 Deg
Depth Logged: 0 m
Depth Interpreted: 0 m
Depth Drilled: 0 m
Last Casing: 0 m
Last Casing Size: 0 mm
Last Casing Weight: 0 kg/m
Last Casing Grade: N/A
Last Casing Connection: N/A
Last Casing Shoe: 0 m
Last Casing Cement: N/A
Last Casing Cement Top: N/A
Last Casing Cement Bottom: N/A
Last Casing Cement Type: N/A
Last Casing Cement Density: N/A
Last Casing Cement Volume: N/A
Last Casing Cement Additives: N/A
Last Casing Cement Method: N/A
Last Casing Cement Pressure: N/A
Last Casing Cement Time: N/A
Last Casing Cement Temperature: N/A
Last Casing Cement Yield: N/A
Last Casing Cement Water: N/A
Last Casing Cement Slurry

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-022		
FIELD	UNDEFINED		
COUNTRY/STATE	BRITISH COLUMBIA		
	CANADA		
LOC	SEC	TWP	RGE
Licence Number			
Elevation KB (Elevation relative to Log Measured From GROUND LEVEL Above Permanent Datum)			
Elevation GL			
Other Services			

MINI PLOT

Log Measured From	GROUND LEVEL	Above Permanent Datum	metres
Drilling Measured From	GROUND LEVEL		metres

Run Number	1			metres
Date	13-JUL-2009			
Depth Driller	169.30			metres
Depth Logger	169.30			metres
First Reading	168.60			metres
Last Reading	169.30			metres
Casing Driller	77.60			metres
Casing Logger	77.60			metres
Bit Size	142.000			millimetres
Fluid in Hole	WATER			
Max Recorded Temp				
Time Since Circulation				
Time Since Cement				
Equipment / Base				
Witnessed By				
Operator	11636			
	O.CULLINGHAM			
Equipment	RGR			

BOREHOLE RECORD

Last Edited: 13-JUL-2009 23:48

Bit Size millimetres	Depth From metres	Depth To metres
160.000	0.00	119.30
142.000	119.30	169.30

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	160.000	0.00	77.60	25.30

REMARKS

COORDINATES:
NORTHING:
5492700

EASTING:
366170

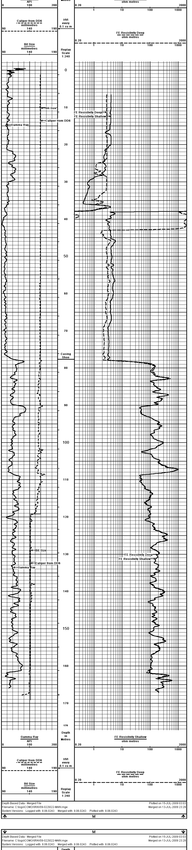
TOOL RUNS:
RRS , DDS ,NN2, VRT ,DIP, 9ONIC,SCANNER

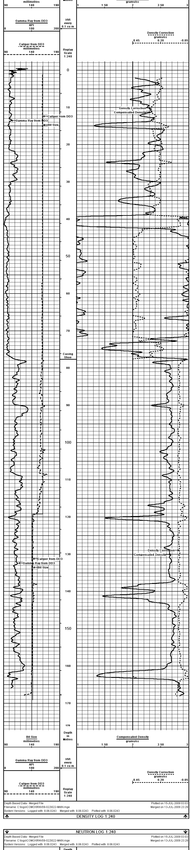
BORE WALL COND : MEDIUM
BORE HOLE COND : GOOD

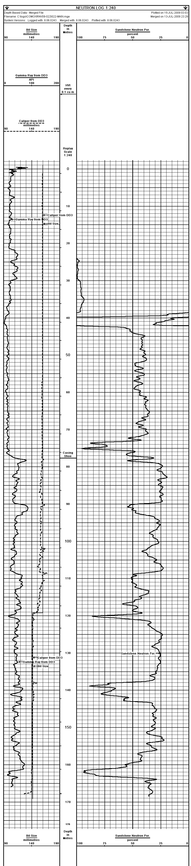
NON-FLOWING WELL

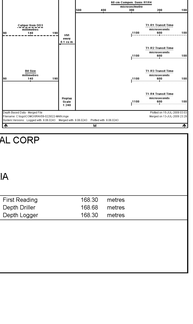
WELL WAS LOGGED STAND ALONE

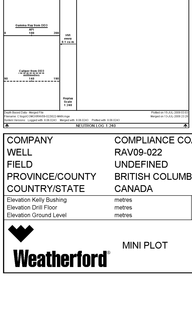
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.











COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-022
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	168.30	metres
Elevation Drill Floor	metres	Depth Driller	168.68	metres
Elevation Ground Level	metres	Depth Logger	168.30	metres

Weatherford

MINI PLOT

Weatherford

CHAMPION COAL CORP
WELL: WEST FORK #2
FIELD: BRUSH CREEK
COUNTY, STATE, COUNTRY: BRITISH COLUMBIA
LOCATION: 49 DEGREES NORTH
LAT: 114 DEGREES WEST
LONG:
DATE: 1-Oct-2004 TIME: 10:00 AM
DATA: 1-Oct-2004 TIME: 10:00 AM
DATA: 1-Oct-2004 TIME: 10:00 AM
**DATA

60CM COMPENSATED SONIC

Log Date	15-JUL-2009
Log Time	23:00
Log Number	1
Run Number	1
Depth Reference	KB
Elevation	0.00
Permanent Datum	GL
Elevation	0.00
Log Measured From	KB
Drilling Measured From	KB
Elevation	0.00
Date	15-JUL-2009
Time	23:00
Max Recorded Temperature	25 DEG
Bottom Hole Temperature	25 DEG
Equipment	1
Location	1
Recorded by	1
Witnessed by	1

BOREHOLE RECORD			
Bit Size	Depth From	Depth To	
100.00 MM	0.00	1.00	
100.00 MM	1.00	1.00	

CASING RECORD			
Type	Size	Weight/Feet	Grade
CONDUCTOR	100.00 MM	0.00 LB	

Last Date	15-JUL-2009 23:00
Depth To	1.00
Depth To	1.00

Run Number	1
Depth Driller	1.00
Depth Logged	1.00
Driller's Casing	0.00
Logging Speed	0 FPM
Logging Speed	0 FPM
Logging Speed	0 FPM

VERTICALITY ANALYSIS

COMPLIANCE COAL CORP
RAVO9-022
BRITISH COLUMBIA
CANADA

Date	Time	Depth	Azimuth	Inclination	Tool Face	Comment
14-JUL-2009	09:00:00	0.00	0.00	0.00	0.00	Begin Survey
	09:05:00	100.00	0.00	0.00	0.00	
	09:10:00	200.00	0.00	0.00	0.00	
	09:15:00	300.00	0.00	0.00	0.00	
	09:20:00	400.00	0.00	0.00	0.00	
	09:25:00	500.00	0.00	0.00	0.00	
	09:30:00	600.00	0.00	0.00	0.00	
	09:35:00	700.00	0.00	0.00	0.00	
	09:40:00	800.00	0.00	0.00	0.00	
	09:45:00	900.00	0.00	0.00	0.00	
	09:50:00	1000.00	0.00	0.00	0.00	
	09:55:00	1100.00	0.00	0.00	0.00	
	10:00:00	1200.00	0.00	0.00	0.00	
	10:05:00	1300.00	0.00	0.00	0.00	
	10:10:00	1400.00	0.00	0.00	0.00	
	10:15:00	1500.00	0.00	0.00	0.00	
	10:20:00	1600.00	0.00	0.00	0.00	
	10:25:00	1700.00	0.00	0.00	0.00	
	10:30:00	1800.00	0.00	0.00	0.00	
	10:35:00	1900.00	0.00	0.00	0.00	
	10:40:00	2000.00	0.00	0.00	0.00	
	10:45:00	2100.00	0.00	0.00	0.00	
	10:50:00	2200.00	0.00	0.00	0.00	
	10:55:00	2300.00	0.00	0.00	0.00	
	11:00:00	2400.00	0.00	0.00	0.00	
	11:05:00	2500.00	0.00	0.00	0.00	
	11:10:00	2600.00	0.00	0.00	0.00	
	11:15:00	2700.00	0.00	0.00	0.00	
	11:20:00	2800.00	0.00	0.00	0.00	
	11:25:00	2900.00	0.00	0.00	0.00	
	11:30:00	3000.00	0.00	0.00	0.00	
	11:35:00	3100.00	0.00	0.00	0.00	
	11:40:00	3200.00	0.00	0.00	0.00	
	11:45:00	3300.00	0.00	0.00	0.00	
	11:50:00	3400.00	0.00	0.00	0.00	
	11:55:00	3500.00	0.00	0.00	0.00	
	12:00:00	3600.00	0.00	0.00	0.00	
	12:05:00	3700.00	0.00	0.00	0.00	
	12:10:00	3800.00	0.00	0.00	0.00	
	12:15:00	3900.00	0.00	0.00	0.00	
	12:20:00	4000.00	0.00	0.00	0.00	
	12:25:00	4100.00	0.00	0.00	0.00	
	12:30:00	4200.00	0.00	0.00	0.00	
	12:35:00	4300.00	0.00	0.00	0.00	
	12:40:00	4400.00	0.00	0.00	0.00	
	12:45:00	4500.00	0.00	0.00	0.00	
	12:50:00	4600.00	0.00	0.00	0.00	
	12:55:00	4700.00	0.00	0.00	0.00	
	13:00:00	4800.00	0.00	0.00	0.00	
	13:05:00	4900.00	0.00	0.00	0.00	
	13:10:00	5000.00	0.00	0.00	0.00	
	13:15:00	5100.00	0.00	0.00	0.00	
	13:20:00	5200.00	0.00	0.00	0.00	
	13:25:00	5300.00	0.00	0.00	0.00	
	13:30:00	5400.00	0.00	0.00	0.00	
	13:35:00	5500.00	0.00	0.00	0.00	
	13:40:00	5600.00	0.00	0.00	0.00	
	13:45:00	5700.00	0.00	0.00	0.00	
	13:50:00	5800.00	0.00	0.00	0.00	
	13:55:00	5900.00	0.00	0.00	0.00	
	14:00:00	6000.00	0.00	0.00	0.00	
	14:05:00	6100.00	0.00	0.00	0.00	
	14:10:00	6200.00	0.00	0.00	0.00	
	14:15:00	6300.00	0.00	0.00	0.00	
	14:20:00	6400.00	0.00	0.00	0.00	
	14:25:00	6500.00	0.00	0.00	0.00	
	14:30:00	6600.00	0.00	0.00	0.00	
	14:35:00	6700.00	0.00	0.00	0.00	
	14:40:00	6800.00	0.00	0.00	0.00	
	14:45:00	6900.00	0.00	0.00	0.00	
	14:50:00	7000.00	0.00	0.00	0.00	
	14:55:00	7100.00	0.00	0.00	0.00	
	15:00:00	7200.00	0.00	0.00	0.00	
	15:05:00	7300.00	0.00	0.00	0.00	
	15:10:00	7400.00	0.00	0.00	0.00	
	15:15:00	7500.00	0.00	0.00	0.00	
	15:20:00	7600.00	0.00	0.00	0.00	
	15:25:00	7700.00	0.00	0.00	0.00	
	15:30:00	7800.00	0.00	0.00	0.00	
	15:35:00	7900.00	0.00	0.00	0.00	
	15:40:00	8000.00	0.00	0.00	0.00	
	15:45:00	8100.00	0.00	0.00	0.00	
	15:50:00	8200.00	0.00	0.00	0.00	
	15:55:00	8300.00	0.00	0.00	0.00	
	16:00:00	8400.00	0.00	0.00	0.00	
	16:05:00	8500.00	0.00	0.00	0.00	
	16:10:00	8600.00	0.00	0.00	0.00	
	16:15:00	8700.00	0.00	0.00	0.00	
	16:20:00	8800.00	0.00	0.00	0.00	
	16:25:00	8900.00	0.00	0.00	0.00	
	16:30:00	9000.00	0.00	0.00	0.00	
	16:35:00	9100.00	0.00	0.00	0.00	
	16:40:00	9200.00	0.00	0.00	0.00	
	16:45:00	9300.00	0.00	0.00	0.00	
	16:50:00	9400.00	0.00	0.00	0.00	
	16:55:00	9500.00	0.00	0.00	0.00	
	17:00:00	9600.00	0.00	0.00	0.00	
	17:05:00	9700.00	0.00	0.00	0.00	
	17:10:00	9800.00	0.00	0.00	0.00	
	17:15:00	9900.00	0.00	0.00	0.00	
	17:20:00	9950.00	0.00	0.00	0.00	
	17:25:00	9960.00	0.00	0.00	0.00	
	17:30:00	9970.00	0.00	0.00	0.00	
	17:35:00	9980.00	0.00	0.00	0.00	
	17:40:00	9990.00	0.00	0.00	0.00	
	17:45:00	9995.00	0.00	0.00	0.00	
	17:50:00	9998.00	0.00	0.00	0.00	
	17:55:00	9999.00	0.00	0.00	0.00	
	18:00:00	10000.00	0.00	0.00	0.00	End Survey

BOREHOLE RECORD

Bit Size millimetres	Depth From metres	Depth To metres
160.000	0.00	119.30
142.000	119.30	199.30

Last Edited: 13-JUL-2009 23:49

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	140.000	0.00	77.40	25.30

REMARKS

COORDINATES
NORTHING
0400700

EASTING
380170

TOOL RUNS
IRIS, DDI, RAD, VRT, DP, SONIC,SCANNER

BORE WALL CONDI - MEDIUM
BORE HOLE CONDI - GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

Verticality Analysis Interpretation Notes

14-JUL-2009 00:00

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:48000(imperial), and the minimum 1:1.

The analysis is derived by integration of the 100m sampled data across the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH — The depth recorded on the field logs for the borehole.

TRUE DEPTH — The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.

HOLE TILT AND AZIMUTH — The sampled borehole orientation.

AXIAL COORDINATES — The coordinates North and East from the target origin.

POLAR COORDINATES — The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logxc\COMGORAVO9-022GOP.42B.267.dfb
All Co-ordinates With Respect To True North, all depths in metres

Date Processed: 14-JUL-2009
Date Logged: 10-JUL-2009

Final Depth: 83.80, 9.00 North, 0.00 East of Origin

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR	
Log	True	Tilt	Azi	North	East	Dog	Radius
84.00	84.00	3.6	149.1	-0.01	0.01	144	0.01
85.00	85.00	4.0	147.7	-0.05	0.05	135	0.07
86.00	86.00	4.0	156.9	-0.11	0.09	141	0.14
87.00	87.00	4.4	154.7	-0.17	0.14	140	0.22
88.00	87.99	4.4	144.2	-0.22	0.19	144	0.27
89.00	88.99	4.5	169.6	-0.26	0.20	144	0.34
90.00	89.99	4.7	171.1	-0.31	0.21	146	0.41
71.00	70.98	4.7	159.7	-0.43	0.36	145	0.56
72.00	71.98	4.9	143.9	-0.49	0.31	147	0.58
73.00	72.97	5.1	97.1	-0.51	0.37	147	0.63
74.00	73.97	5.1	65.7	-0.49	0.45	137	0.66
75.00	74.96	5.1	145.5	-0.54	0.49	137	0.73
76.00	75.96	5.1	143.5	-0.58	0.58	134	0.81
77.00	76.96	5.1	155.2	-0.62	0.64	134	0.89
78.00	77.95	5.1	167.3	-0.67	0.68	135	0.95
79.00	78.95	5.1	201.5	-0.77	0.69	138	1.03
80.00	79.95	4.9	198.4	-0.85	0.68	142	1.09
81.00	80.94	4.9	192.8	-0.92	0.64	145	1.15
82.00	81.94	5.0	193.9	-0.98	0.58	146	1.21
83.00	82.94	5.1	203.1	-1.11	0.63	151	1.27
84.00	83.94	4.9	195.0	-1.19	0.59	153	1.33
85.00	84.93	4.9	198.4	-1.26	0.59	155	1.41
86.00	85.93	4.9	198.5	-1.33	0.57	156	1.48
87.00	86.92	4.9	198.5	-1.44	0.56	158	1.55
88.00	87.92	4.7	189.0	-1.53	0.55	160	1.62
89.00	88.92	4.7	189.0	-1.61	0.54	161	1.69
90.00	89.91	5.0	194.9	-1.69	0.52	163	1.77
91.00	90.91	4.5	200.1	-1.77	0.50	164	1.84
91.00	91.90	4.7	189.4	-1.84	0.48	165	1.90
92.00	92.90	4.7	200.6	-1.92	0.46	166	1.96
93.00	93.90	4.7	208.9	-2.02	0.48	165	2.05
94.00	94.89	4.5	205.8	-2.08	0.45	168	2.13
96.00	95.89	4.4	205.2	-2.16	0.43	169	2.20
97.00	96.89	4.4	198.0	-2.23	0.42	170	2.26
98.00	97.89	4.2	196.0	-2.31	0.40	169	2.34
99.00	98.88	4.5	196.2	-2.38	0.39	171	2.41
100.00	99.88	4.5	196.2	-2.46	0.38	171	2.49
101.00	100.88	4.3	205.2	-2.53	0.36	172	2.56
102.00	101.87	4.3	187.9	-2.60	0.35	172	2.63
103.00	102.87	4.3	198.5	-2.67	0.33	173	2.69
104.00	103.87	4.1	198.0	-2.74	0.32	173	2.76
105.00	104.87	4.1	198.0	-2.81	0.31	174	2.83
106.00	105.86	4.1	198.2	-2.88	0.29	174	2.90
107.00	106.86	4.1	199.2	-2.95	0.29	175	2.97
108.00	107.86	3.9	198.5	-3.02	0.28	175	3.04
109.00	108.86	3.9	204.5	-3.08	0.26	175	3.09
110.00	109.86	3.6	202.8	-3.14	0.25	175	3.15
111.00	110.85	3.5	202.8	-3.19	0.24	176	3.21
112.00	111.85	3.3	205.0	-3.25	0.23	176	3.26
113.00	112.85	3.3	187.6	-3.31	0.23	176	3.32
114.00	113.85	2.6	181.1	-3.36	0.23	176	3.37
115.00	114.85	2.8	185.4	-3.41	0.22	176	3.42
116.00	115.84	3.0	187.9	-3.46	0.22	176	3.47
117.00	116.84	3.2	192.6	-3.51	0.22	176	3.52
118.00	117.84	3.1	189.6	-3.56	0.22	176	3.57
119.00	118.84	3.1	189.6	-3.61	0.22	176	3.62
120.00	119.84	3.1	190.0	-3.67	0.22	177	3.68
121.00	120.84	3.3	189.0	-3.72	0.22	177	3.73
122.00	121.84	3.3	192.6	-3.78	0.22	177	3.79
123.00	122.84	3.1	192.9	-3.83	0.22	177	3.84
124.00	123.84	3.1	179.1	-3.88	0.22	177	3.89
125.00	124.83	3.1	192.0	-3.94	0.22	177	3.94
126.00	125.83	3.3	188.5	-3.99	0.22	177	3.99
127.00	126.83	3.5	188.5	-4.04	0.22	177	4.04
128.00	127.83	3.6	188.5	-4.10	0.22	177	4.10
129.00	128.83	3.3	186.9	-4.15	0.22	177	4.16
130.00	129.83	3.5	186.9	-4.21	0.22	177	4.21
131.00	130.83	3.5	188.5	-4.26	0.22	177	4.27
132.00	131.82	3.1	192.4	-4.32	0.22	177	4.32
133.00	132.82	3.1	192.9	-4.37	0.22	177	4.38
134.00	133.82	3.1	189.6	-4.42	0.22	177	4.43
135.00	134.82	3.3	192.5	-4.48	0.22	177	4.49
136.00	135.82	3.3	188.5	-4.54	0.22	177	4.54
137.00	136.82	3.5	187.2	-4.60	0.22	177	4.60
138.00	137.81	3.5	188.5	-4.65	0.22	177	4.66
139.00	138.81	3.5	189.9	-4.71	0.22	177	4.73
140.00	139.81	3.1	186.8	-4.79	0.21	177	4.78
141.00	140.81	3.1	189.6	-4.84	0.21	178	4.84
142.00	141.81	3.1	193.5	-4.90	0.21	178	4.90
143.00	142.80	3.1	185.2	-4.96	0.21	178	4.96
144.00	143.80	3.1	185.9	-5.02	0.21	178	5.02
145.00	144.80	3.1	192.5	-5.07	0.21	178	5.08
146.00	145.80	3.1	189.6	-5.13	0.21	178	5.14
147.00	146.80	3.3	187.7	-5.20	0.22	178	5.20
148.00	147.80	3.6	184.1	-5.26	0.22	178	5.26
149.00	148.79	3.6	184.1	-5.32	0.22	178	5.32
150.00	149.79	3.6	187.7	-5.39	0.22	178	5.39
151.00	150.79	3.2	182.1	-5.44	0.23	178	5.45
152.00	151.79	3.2	189.6	-5.49	0.23	178	5.50
153.00	152.78	3.2	189.4	-5.56	0.24	178	5.57
154.00	153.78	3.2	183.2	-5.62	0.25	177	5.63
155.00	154.78	3.6	179.2	-5.68	0.26	177	5.69
156.00	155.78	3.3	182.0	-5.74	0.27	177	5.75
157.00	156.78	3.3	182.1	-5.81	0.28	177	5.81
158.00	157.78	3.3	180.1	-5.85	0.29	177	5.88
159.00	158.78	3.3	172.5	-5.91	0.30	177	5.91
160.00	159.77	3.3	172.5	-5.97	0.32	177	5.97
161.00	160.77	3.3	175.6	-6.01	0.34	177	6.02
162.00	161.77	3.1	176.8	-6.06	0.33	177	6.07
163.00	162.77	2.9	176.8	-6.10	0.35	177	6.11
164.00	163.77	2.9	175.6	-6.16	0.36	177	6.17
165.00	164.77	3.1	178.5	-6.21	0.37	177	6.22

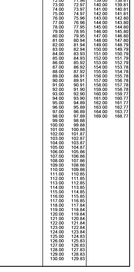
Cross Section

All Figures are Log Depths in metres

Target Origin Depth 63.80
Last Plotted Depth 199.00
Depth Markers annotated in multiples of 10
Plot Scale Factor 1:1000
Last Depth Marker at 160

Plot With Respect to True North

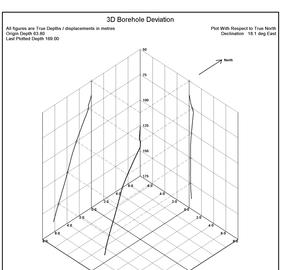
Scale 1:100
Declination 18.1 deg East



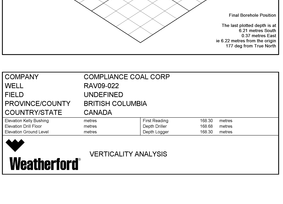
Final Borehole Position

The last plotted depth is at
9.21 metres South
0.57 metres East
ie 6.22 metres from the origin
177 deg from True North

Vertical Sections



Depth Correction Analysis



Depths		Depths	
Log	True	Log	True
64.00	64.00	131.00	130.83
65.00	65.00	132.00	131.82
66.00	66.00	133.00	132.82
67.00	67.00	134.00	133.82
68.00	67.99	135.00	134.82
69.00	68.99	136.00	135.82
70.00	69.99	137.00	136.82
71.00	70.98	138.00	137.81
72.00	71.98	139.00	138.81
73.00	72.97	140.00	139.81
74.00	73.97	141.00	140.81
75.00	74.96	142.00	141.80
76.00	75.96	143.00	142.80
77.00	76.96	144.00	143.80
78.00	77.95	145.00	144.80
79.00	78.95	146.00	145.80
80.00	79.95	147.00	146.80
81.00	80.94	148.00	147.80
82.00	81.94	149.00	148.79
83.00	82.94	150.00	149.79
84.00	83.94	151.00	150.79
85.00	84.93	152.00	151.79
86.00	85.93	153.00	152.78
87.00	86.92	154.00	153.78
88.00	87.92	155.00	154.78
89.00	88.92	156.00	155.78
90.00	89.91	157.00	156.78
91.00	90.91	158.00	157.78
92.00	91.90	159.00	158.78
93.00	92.90	160.00	159.77
94.00	93.90	161.00	160.77
95.00	94.89	162.00	161.77
96.00	95.89	163.00	162.77
97.00	96.89	164.00	163.77
98.00	97.89	165.00	164.77
99.00	98.88	166.00	165.77
100.00	99.88		
101.00	100.88		
102.00	101.87		
103.00	102.87		
104.00	103.87		
105.00	104.87		
106.00	105.86		
107.00	106.86		
108.00	107.86		
109.00	108.86		
110.00	109.86		
111.00	110.85		
112.00	111.85		
113.00	112.85		
114.00	113.85		
115.00	114.85		
116.00	115.84		
117.00	116.84		
118.00	117.84		
119.00	118.84		
120.00	119.84		
121.00	120.84		
122.00	121.84		
123.00	122.84		
124.00	123.84		
125.00	124.83		
126.00	125.83		
127.00	126.83		
128.00	127.83		
129.00	128.83		
130.00	129.83		

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth 63.80
Last Plotted Depth 199.00

Plot With Respect to True North
Declination 18.1 deg East

Final Borehole Position

The last plotted depth is at
9.21 metres South
0.57 metres East
ie 6.22 metres from the origin
177 deg from True North

COMPANY	COMPLIANCE COAL CORP
WELL	RAVO9-022
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	159.30 metres
Elevation Drill Floor	metres	Depth Driller	159.69 metres
Elevation Ground Level	metres	Depth Logger	159.30 metres

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VERTICALITY ANALYSIS

COMPLIANCE COAL CORP
RAV09-023
UNDEFINED
BRITISH COLUMBIA
CANADA

COMPANY
WELL
PROVINCE/COUNTY
COUNTRY/STATE

COMPOSITE COAL LOG

Logged Interval	44.10 - 228.00 metres	Log Measured From	GROUND LEVEL above Permanent Datum
Total Depth	228.00 metres	Drilling Measured From	GL
Drilling Started	16-JUL-2009	Elevation	0.00 metres
Drilling Completed	17-JUL-2009	Latitude Number	52.4
Drilling Equipment	Diamond Drill Rig	Longitude Number	-120.8
Drilling Method	Diamond Core	TOWNSHIP	
Core Diameter	75.70 mm	RANGE	
Core Recovered	226.30 metres	TWP	
Core Not Recovered	2.70 metres	SEC	
Core Recovery	100.0 %	LOT	
Drilling Fluid Type	Water	DIST	
Drilling Fluid Loss	0.00 metres	TERRITORY CAR PROJ.NO.	
Drilling Fluid Gain	44.10 metres		
Casing Cemented	No		
Casing Cemented	0.00 metres		
Casing Cemented	0.00 metres		
Casing Left	44.10 metres		
Casing Left	44.10 metres		
Casing Left	44.10

CDN DIESEL
CONTRACT DRILLING
WELL NAME: 100/16-29-083-17W6/00

Surface Location:	100/16-29-083-17W6/00
Lat:	
Long:	
Licence:	
Contractor:	CDN DIESEL DRILLING
Rig Type:	CDN 3000
Spud Date:	
TD Date:	
Rig Release:	
Total Depth:	
Logging Company:	Weatherford

SCHEDULE PRICING

Rate	Description	Start Date	Stop Date	Days

CASING RECORD

Type	Size	Weight	Grade	Thread	Top	Bottom	Hole Size

REMARKS

Comments:
Well Type:
Drilling Method:
Mud Type:
Water Source:
Drill Bit: Type: Size: Serial: Jets:
Bit Hours:
Drilling Contractor:
Rig Number:
Rig Phone:

Disclaimer: Weatherford Canada Partnership (Weatherford) has made every reasonable effort in the application of its equipment and the interpretation of the data to insure the accuracy of the information and data provided to the client. However, Weatherford does not guarantee the productivity of any well or the accuracy of any interpretation or data, and Weatherford does not assume any liability for any damages, costs, or expenses incurred or sustained by anyone resulting from any interpretation made or any operation undertaken in reliance on the information or data furnished by Weatherford.

DRILL LOG

Drilling Company: Weatherford Canada Partnership Logging Unit: 3 Logging Date: 2-Jul-2010 Operator: Rig Number: Page 1 of 1 Depth Scale: 1:240

Drilling Fluid Type: Drilling Fluid Density: Drilling Fluid Viscosity: Drilling Fluid Chlorides: Drilling Fluid pH: Drilling Fluid Temperature: Bit Type: Bit Size: Bit Number: Bit Hours: Drilling Time: Drilling Rate: Weight on Bit: Rotary Speed: Torque: Pump Pressure: Flow Rate: Hook Load: Total Gas: Trip Gas: Max Gas: Max Gas Depth: Lithology: Lithology Description: Drilling Events: Drilling Events Depth: Drilling Events Duration: Drilling Events Description: Drilling Events Comments: Drilling Events Cost: Drilling Events Cost Code: Drilling Events Cost Description: Drilling Events Cost Comments: Drilling Events Cost Type: Drilling Events Cost Comments: Drilling Events Cost Type: Drilling Events Cost Comments: Drilling Events Cost Type

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COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-023
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Drill Floor	metres
Elevation Ground Level	metres
Depth Log Driller	228.00 metres
Depth Log Logger	228.00 metres
Date	17-JUL-2009
Time	16:24
Log Measured From	GROUND LEVEL
Log Measured From	0.00 metres
Drilling Measured From	GROUND LEVEL
Permanent Datum	GROUND LEVEL
Elevation	0.00 metres
Depth Reference	Elevations
Log Measured From	0.00 metres
Drilling Measured From	0.00 metres
Permanent Datum	0.00 metres

BOREHOLE TEMPERATURE
DIFFERENTIAL TEMPERATURE

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-023
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Ground	metres
Elevation Ground Level	metres
First Reading	226.00 metres
Depth Logged	226.00 metres
Depth Logged Zero	226.00 metres

Weatherford

BOREHOLE TEMPERATURE
DIFFERENTIAL TEMPERATURE

BOREHOLE RECORD

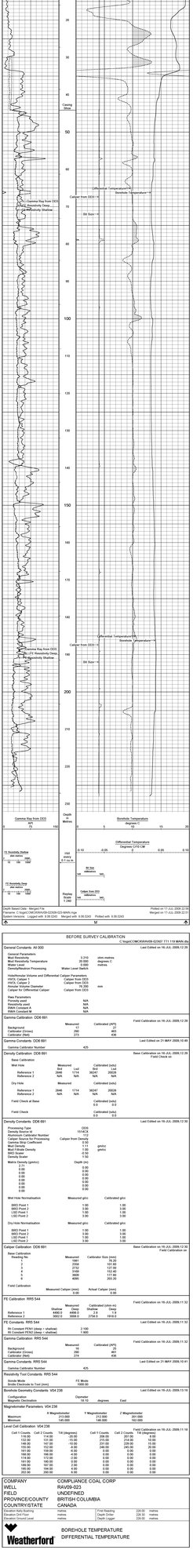
Bit Size	Depth From	Depth To	Last Edited 17-JUL-2009 15:21
216.00	0.00	226.00	
152.00	226.00	248.00	
100.00	248.00	258.00	

CASING RECORD

Type	Size	Depth From	Shoe Depth	Weight
	152.00	0.00	248.00	0.00
	100.00	0.00	248.00	0.00

REMARKS

COORDINATES
NAD 83
Approximations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions as our price schedule.



BEFORE SURVEY CALIBRATION

C:\logs\CMC\RAV09-023\027 T11 119 MAIN.dlis

Last Edited on 16-JUL-2009,12:35

General Constants: All 000			
General Parameters			
Mud Resistivity	3.210	ohm-metres	
Mud Density Temperature	20.000	degrees C	
Hole Diameter	152.00	metres	
Density/Neutron Processing	Water Level Switch		
Hole/Annular Volume and Differential Caliper Parameters			
HVOL Caliper 1	Caliper from DDS		
HVOL Caliper 2	Caliper from DDS		
Differential Caliper Diameter	152.00	mm	
Caliper for Differential Caliper	Caliper from DDS		
Raw Parameters			
Density used	N/A		
Resistivity used	N/A		
Neutron used	N/A		
SWA Calculated M	N/A		
SWA Calculated N	N/A		
Gamma Calibration: DD6 691			Field Calibration on 16-JUL-2009,12:28
	Measured	Calibrated (API)	
Background	17	27	
Calibrator (Open)	260	401	
Calibrator (Shut)	273	436	
Gamma Constants: DD6 691			Last Edited on 21-MAY-2009,10:49
Gamma Calibrator Number	425		
Density Calibration: DD6 691			See Calibration on 16-JUL-2009,12:28
			Field Check on
Base Calibration			
Well Note	Measured	Calibrated (kdu)	
	Bot	Bot	Bot
Reference 7	3646	1714	36247 20928
Reference 8	N/A	N/A	N/A N/A
Dry Hole	Measured	Calibrated (kdu)	
Reference 1	3646	1714	36247 20928
Reference 2	N/A	N/A	N/A N/A
Field Check at Base		Calibrated (kdu)	
		0.0	0.0
Field Check		Calibrated (kdu)	
		0.0	0.0
Density Constants: DD6 691			Last Edited on 16-JUL-2009,12:30
Processing Type	DDS		
Density Source in Use	1014CS		
Aluminum Calibration Number	712		
Density Calibrator Processing	Caliper from DDS		
Gamma Strip Coefficient	0.58	gm/cc	
Mud Density	1.00	gm/cc	
Mud Filtrate Density	1.00	gm/cc	
SWC Bulk Density	0.00		
SWC Porosity	0.00		
Matrix Density (gm/cc)	Depth (m)		
0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
0.00	0.00		
Wet Hole Normalization	Measured g/cc	Calibrated g/cc	
BRD Point 1	1.00	1.00	
BRD Point 2	3.00	3.00	
LBD Point 1	1.00	1.00	
LBD Point 2	3.00	3.00	
Dry Hole Normalization	Measured g/cc	Calibrated g/cc	
BRD Point 1	1.00	1.00	
BRD Point 2	3.00	3.00	
LBD Point 1	1.00	1.00	
LBD Point 2	3.00	3.00	
Caliper Calibration: DD6 691			See Calibration on 16-JUL-2009,12:36
			Field Calibration on
Base Calibration			
Reading No.	Measured	Calibrator Size (mm)	
1	2646	101.60	
2	2554	101.60	
3	2732	127.00	
4	3646	177.80	
5	3646	177.80	
6	4095	203.20	
Field Calibration			
	Measured Caliper (mm)	Actual Caliper (mm)	
	0.00	0.00	
FE Calibration: RR5 544			Field Calibration on 16-JUL-2009,11:32
	Measured	Calibrated (ohm-m)	
	Shallow	Deep Shallow	Deep
Reference 1	4450.0	4458.0	2.0 1.9
Reference 2	4450.0	3806.0	2736.0 1910.5
FE Constants: RR5 544			Last Edited on 16-JUL-2009,11:32
Mk Constant R1 (deep / shallow)	2.100		
Mk Constant R2 (deep / shallow)	1.900		
Gamma Calibration: RR5 544			Field Calibration on 16-JUL-2009,11:32
	Measured	Calibrated (API)	
Background	17	27	
Calibrator (Gross)	260	401	
Calibrator (Net)	274	436	
Gamma Constants: RR5 544			Last Edited on 21-MAY-2009,10:41
Gamma Calibrator Number	425		
Resistivity Tool Constants: RR5 544			
Smoke Mode	FE Mode		
Smoke Electrode to Tool (mm)	1000.00		
Borehole Geometry Constants: V04 238			Last Edited on 16-JUL-2009,13:18
Computation	Diameter		
Magnetic Declination	18.10	degrees	East
Magnetometer Parameters: V04 238			
	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	215.000	212.000	222.000
Minimum	145.000	148.000	151.000

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
152.00	152.00	15.00	215.00	214.00	15.00
152.00	151.00	15.00	215.00	214.00	15.00
148.00	147.00	15.00	231.00	229.00	15.00
151.00	150.00	15.00	231.00	229.00	15.00
151.00	159.00	4.00	0.00	0.00	0.00
159.00	159.00	4.00	0.00	0.00	0.00
159.00	159.00	4.00	0.00	0.00	0.00
159.00	159.00	4.00	0.00	0.00	0.00
159.00	147.00	2.00	0.00	0.00	0.00
159.00	147.00	2.00	0.00	0.00	0.00
152.00	150.00	4.00	0.00	0.00	0.00

VERTICALITY ANALYSIS

COMPANY: COMPLIANCE COAL CORP
WELL: RAV09-023
FIELD: UNDEFINED
PROVINCE/COUNTRY: BRITISH COLUMBIA, CANADA

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COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-024
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	220.05 metres
Elevation Drill Floor	metres	Depth Driller	221.54 metres
Elevation Ground Level	metres	Depth Logger	220.05 metres

Weatherford

COMPOSITE COAL LOG

Log Date	17-JUL-2009	Log Number	1	Run Number	1
Depth Driller	221.54	Depth Logger	220.05	Bottom Log Interval	220.05
Top Log Interval	0.00	Open Hole Size	152.00	Drilling Fluid Type	WATER
Drill Collar Length	0.00	Drill Pipe Length	0.00	Drill Pipe Size	metres
Max Rec Temp	0.00	Equipment Name	1104	Equipment Type	2
Recorded By	C. LEONARD	Witnessed By	ROB		

Source of Depth Measurement: DRILLER
Depth Reference: KB
Permanent Datum: GL, Elevation 0m metres
Log Measured From: KB, 0.00 metres above Permanent Datum
Drilling Measured From: GROUND LEVEL above Permanent Datum
Depth Scale: 1:240
Date: 17-JUL-2009
Depth Control: Depth Counter
Cable Speed: 220.05 metres/hr
Cable Weight: 220.05 metres/hr
Cable Tension: 220.05 metres/hr
Cable Length: 220.05 metres
Cable Type: 220.05 metres
Cable Number: 220.05 metres
Logging Company: SCHLUMBERGER
Logging Unit Number: 1
Logging Engineer: C. LEONARD
Logging Witness: ROB
Logging Company Address: 2 DF 2 GL metres

BOREHOLE RECORD

Last Edited: 17-JUL-2009 20:24

Bit Size millimetres	Depth From metres	Depth To metres
152.000	0.00	70.10
152.000	70.10	101.50
147.000	101.50	220.05

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	152.000	0.00	70.10	25.30

REMARKS

COORDINATES
NORTHING
5462240

EASTING
365990

TOOL RUNS
IRRS,DDB,NN2,SONIC,SQDIVERT,SCANNER

BORE WALL COND : GOOD
BORE HOLE COND : GOOD

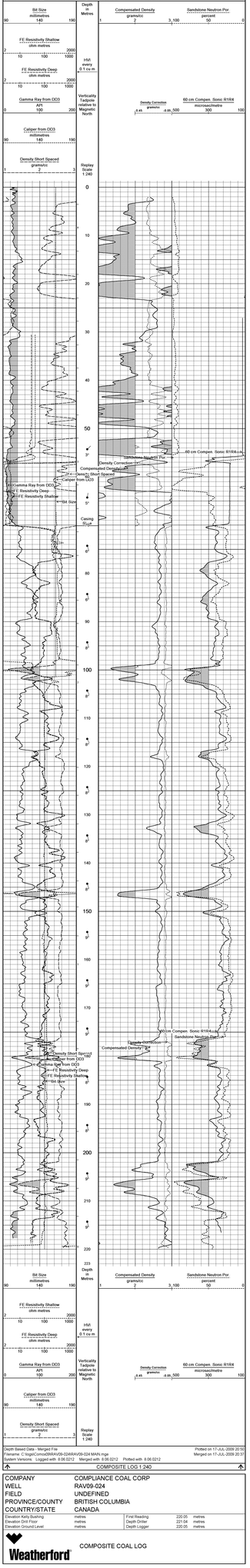
NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

COMPOSITE LOG 1:240

Depth Based Data - Merged File — Plotted on 17-JUL-2009 20:50
Filename: C:\logs\Compo\RAV09-024\RAV09-024 MAIN.mge — Merged on 17-JUL-2009 20:37
System Versions: Logged with: 8.06.0212 — Merged with: 8.06.0212 — Plotted with: 8.06.0212



Depth Based Data - Merged File — Plotted on 17-JUL-2009 20:50
Filename: C:\logs\Compo\RAV09-024\RAV09-024 MAIN.mge — Merged on 17-JUL-2009 20:37
System Versions: Logged with: 8.06.0212 — Merged with: 8.06.0212 — Plotted with: 8.06.0212

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-024
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	220.05 metres
Elevation Drill Floor	metres	Depth Driller	221.54 metres
Elevation Ground Level	metres	Depth Logger	220.05 metres

Weatherford

COMPOSITE COAL LOG

Weatherford

Weatherford Canada Partnership
Suite 1000, 250 - 2nd Street S.W.
Calgary, Alberta T2P 0C1
Phone: (403) 537-8100

Well Name: Canadian Superior Energy Inc. et al. Ladyfern 16-17-088-15 Well
Location: 16-17-088-15
Licence: 0
Province: British Columbia
Country: Canada

Service Order: 0000-0000
Log Date: May 17, 2010
Log Time: 00:00

Logging Company: Weatherford Canada Partnership
Logging Unit Number: 1
Logging Unit Type: Standard
Logging Engineer: Brian Kaiser
Witnessed By: Mr. Ryan Hamilton

Bit Run: 1
Bit Type: 8 1/2 PDC
Bit Size: 8.500 in
Drilled From: 0.00 m
To: 2100.00 m
Total Footer: 2100.00 m
Total Hours: 0.00

Depth Reference: KB 5.00 m above PERMANENT DATUM
All Depths are measured from the Depth Reference unless otherwise specified

Mud Type: Water Based
Density: 1.00 g/cm³
Viscosity: 0.00 s/l
Resistivity: 0.00 ohm·m @ 0.00 °C
Source: Flowline
Filtrate: 0.00 ml/30min
Mud Cake: 0.00 mm
Fluid Loss: 0.00 ml/30min
Max Temp: 0.00 °C
Max Rec Temp: 0.00 °C
Circ Stop: 0.00 hrs
Log Start: 0.00 hrs
Log Finish: 0.00 hrs
Equipment: 0.00 hrs
Rig Time: 0.00 hrs

Equipment Number: 0000-0000
Equipment Type: Standard
Equipment Length: 0.00 m
Equipment Weight: 0.00 kg
Equipment Serial Number: 0000
**Equipment Manufacturer: Weatherford

DIPMETER ANALYSIS

COMPANY COAL CORP
WELL RAVEN-024
FIELD UNDEFINED
PROVINCE/COUNTRY BRITISH COLUMBIA
CANADA

BOREHOLE RECORD

Last Edited: 17-JUL-2009 20:45

Bit Size	Depth From	Depth To
152.400	0.00	76.20
98.425	76.20	215.00
152.400	215.00	225.00

CASING RECORD

Size	Depth From	Shoe Depth	Weight
152.400	0.00	76.20	0.00
101.600	76.20	215.00	0.00

REMARKS

COORDINATES:
NORTHING
EASTING
ZONE
DATUM

TOOL RUNS
RR3,DIGMAG,SONIC,SGDOSRT,SCANNER

DIPMETER TOOL USED: CDD
DIPMETER TOOL USED: CDDS

DOWN FLOWING WELL

WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible for any loss or damage suffered in connection with any of our interpretations. Our data, charts, recordings or reproducts are subject to our standard terms and conditions which are in effect at the time of delivery.

MAIN LOG 1:240

Depth Based Data - Maximum Sampling Increment: 10.0cm
Parameter: C:\logtoCoreu\BRAVEN-024\DIP-426.DIT.15.dip
System Versions - Logged with: 3.08.0312 - Processed with: 3.08.0312

Printed on 17-JUL-2009 20:45

Gamma Ray from SGD
API
0 | 120

General Pad 1
cps
200 | 2700.0

General Pad 2
cps
200 | 2700.0

General X Caliper
inches
140 | 190

Vertically Tadpole
Vertical Scale
1:240
Avg Dyad

Formation Dip
Good 0.01 Indicator 0
Dip Parameters

Rose Diagram
every major division

General Y Caliper
inches
140 | 190

Hole Azimuth
Vertical Scale
1:240
Avg Dyad

General Pad 3
cps
200 | 2700.0

Bit Size
millimetres
140 | 190

Display Scale
1:240

General Pad 4
cps
200 | 3000.0

Gamma Ray from SGD
API
0 | 120

Depth
Metres

General Pad 1
cps
200 | 2700.0

General Pad 2
cps
200 | 2700.0

General X Caliper
inches
140 | 190

Vertically Tadpole
Vertical Scale
1:240
Avg Dyad

Formation Dip
Good 0.01 Indicator 0
Dip Parameters

Rose Diagram
every major division

General Y Caliper
inches
140 | 190

Hole Azimuth
Vertical Scale
1:240
Avg Dyad

General Pad 3
cps
200 | 2700.0

Bit Size
millimetres
140 | 190

Display Scale
1:240

General Pad 4
cps
200 | 3000.0

Gamma Ray from SGD
API
0 | 120

Depth
Metres

General Pad 1
cps
200 | 2700.0

General Pad 2
cps
200 | 2700.0

General X Caliper
inches
140 | 190

Vertically Tadpole
Vertical Scale
1:240
Avg Dyad

Formation Dip
Good 0.01 Indicator 0
Dip Parameters

Rose Diagram
every major division

General Y Caliper
inches
140 | 190

Hole Azimuth
Vertical Scale
1:240
Avg Dyad

General Pad 3
cps
200 | 2700.0

Bit Size
millimetres
140 | 190

Display Scale
1:240

General Pad 4
cps
200 | 3000.0

Gamma Ray from SGD
API
0 | 120

Depth
Metres

General Pad 1
cps
200 | 2700.0

General Pad 2
cps
200 | 2700.0

General X Caliper
inches
140 | 190

Vertically Tadpole
Vertical Scale
1:240
Avg Dyad

Formation Dip
Good 0.01 Indicator 0
Dip Parameters

Rose Diagram
every major division

General Y Caliper
inches
140 | 190

Hole Azimuth
Vertical Scale
1:240
Avg Dyad

General Pad 3
cps
200 | 2700.0

Bit Size
millimetres
140 | 190

Display Scale
1:240

General Pad 4
cps
200 | 3000.0

Depth Based Data - Maximum Sampling Increment: 10.0cm
Parameter: C:\logtoCoreu\BRAVEN-024\DIP-426.DIT.15.dip
System Versions - Logged with: 3.08.0312 - Processed with: 3.08.0312

Printed on 17-JUL-2009 20:45

MAIN LOG 1:240

Depth Based Data - Maximum Sampling Increment: 10.0cm
Parameter: C:\logtoCoreu\BRAVEN-024\DIP-426.DIT.15.dip
System Versions - Logged with: 3.08.0312 - Processed with: 3.08.0312

Printed on 17-JUL-2009 20:45

Gamma Ray from SGD
API
0 | 120

General Pad 1
cps
200 | 2700.0

General Pad 2
cps
200 | 2700.0

General X Caliper
inches
140 | 190

Vertically Tadpole
Vertical Scale
1:240
Avg Dyad

Formation Dip
Good 0.01 Indicator 0
Dip Parameters

Rose Diagram
every major division

General Y Caliper
inches
140 | 190

Hole Azimuth
Vertical Scale
1:240
Avg Dyad

General Pad 3
cps
200 | 2700.0

Bit Size
millimetres
140 | 190

Display Scale
1:240

General Pad 4
cps
200 | 3000.0

Gamma Ray from SGD
API
0 | 120

Depth
Metres

General Pad 1
cps
200 | 2700.0

General Pad 2
cps
200 | 2700.0

General X Caliper
inches
140 | 190

Vertically Tadpole
Vertical Scale
1:240
Avg Dyad

Formation Dip
Good 0.01 Indicator 0
Dip Parameters

Rose Diagram
every major division

General Y Caliper
inches
140 | 190

Hole Azimuth
Vertical Scale
1:240
Avg Dyad

General Pad 3
cps
200 | 2700.0

Bit Size
millimetres
140 | 190

Display Scale
1:240

General Pad 4
cps
200 | 3000.0

Gamma Ray from SGD
API
0 | 120

Depth
Metres

General Pad 1
cps
200 | 2700.0

General Pad 2
cps
200 | 2700.0

General X Caliper
inches
140 | 190

Vertically Tadpole
Vertical Scale
1:240
Avg Dyad

Formation Dip
Good 0.01 Indicator 0
Dip Parameters

Rose Diagram
every major division

General Y Caliper
inches
140 | 190

Hole Azimuth
Vertical Scale
1:240
Avg Dyad

General Pad 3
cps
200 | 2700.0

Bit Size
millimetres
140 | 190

Display Scale
1:240

General Pad 4
cps
200 | 3000.0

Depth Based Data - Maximum Sampling Increment: 10.0cm
Parameter: C:\logtoCoreu\BRAVEN-024\DIP-426.DIT.15.dip
System Versions - Logged with: 3.08.0312 - Processed with: 3.08.0312

Printed on 17-JUL-2009 20:45
Recorded 17-JUL-2009 11:36

REPEAT SECTION

Last Edited on 21-MAY-2009 10:42

General Compatibility: AA 000
General Parameters
Hole Diameter 0.310 ohm-metres
Mud Resistivity Temperature 20.000 degrees C
Water Level 0.000 metres
Density/Neutron Processing Water Level Density

Hole/Borehole Volume and Differential Caliper Parameters
Hole Volume Caliper from DDS
Hole Volume Caliper from DDS
Differential Caliper Caliper from DDS ohm
Caliper for Differential Caliper Caliper from DDS

Raw Parameters
Primarily used N/A
Density Calibration N/A
DNBA Correction N/A
DNBA Correction N/A

Field Calibration: DDS 691 — Field Calibration on 16-JUL-2009,17:45

	Measured	Calibrated (API)
Background	0	0
Calibrator (Gross)	280	450
Calibrator (Net)	270	436

Last Edited on 21-MAY-2009 10:42

Gamma Calibration Number 425

Density Calibration: DDS 691 — Base Calibration on 16-JUL-2009,17:45
Field Check on

Base Calibration
Shop Check

	Measured	Calibrated (sdu)
Bar Value	2646 1714	2646 1714
Reference 1	2646 1714	36347 35026
Reference 2	N/A N/A	N/A N/A

Field Check at Base

	Measured	Calibrated (sdu)
	0.0	0.0

Field Check

	Measured	Calibrated (sdu)
	0.0	0.0

Density Calibration: DDS 691 — Last Edited on 7-JUN-2009,06:29

Processing Type DDS
Density Tool Type TETRA3D
Aluminum Calibrator Number 1
Density Calibration Method Caliper from Density
Gamma Ray Coefficient 0.000
Mud Density 1.11 grams
Mud Viscosity 0.000 grams
BRD Hydrogen 0.000
Density Scale 1.00
Density Calibration (gm/cc) Depth Range

	Depth Range
2.00	0.00
2.50	0.00
2.60	0.00
2.70	0.00
2.80	0.00
2.90	0.00
3.00	0.00

Wet Hole Normalization — Measured g/cc — Calibrated g/cc

BRD Point 1	1.00	1.00
BRD Point 2	3.00	3.00
LSD Point 1	1.00	1.00
LSD Point 2	3.00	3.00

Dry Hole Normalization — Measured g/cc — Calibrated g/cc

BRD Point 1	1.00	1.00
BRD Point 2	3.00	3.00
LSD Point 1	1.00	1.00
LSD Point 2	3.00	3.00

Caliper Calibration: DDS 691 — Base Calibration on 16-JUL-2009,17:45
Field Calibration on

	Measured	Calibrated (inch)
Shop Cal	2.000	2.000
1	3.000	3.000
2	3733	1731.00
3	4466	2731.00
4	5199	3731.00
5	5932	4731.00
6	6665	5731.00
7	7398	6731.00
8	8131	7731.00
9	8864	8731.00
10	9597	9731.00

Field Calibration Measured Caliper Value Actual Caliper Value
0.00 0.00

Sonic Compatibility: MSC 338 — Last Edited on 19-JUL-2009,17:45

Maximum Secondary Contrast 328.08 micro-seconds
Minimum Primary Contrast 164.04 micro-seconds
Limestone Transit Time 182.00 micro-seconds
Sandstone Transit Time 182.00 micro-seconds
Mud Transit Time 620.00 micro-seconds
Sonic Ref Pressure SYCA.400 (m Compensated Sonic Ref)
Transit Time for US Cycle MC.BK.DR (m Sonic 8/96)
Sonic Calibration SYCA
US Cycle Source 425 ohm
Transmitter Receiver 1 Offset 32.00 inches
Transmitter Receiver 2 Offset 32.00 inches
Transmitter Receiver 3 Offset 32.00 inches
Transmitter Receiver 4 Offset 32.00 inches

Gamma Calibration: NAI 560 — Field Calibration on 16-JUL-2009,17:45

	Measured	Calibrated (API)
Background	17	27
Calibrator (Gross)	280	450
Calibrator (Net)	270	436

Gamma Compatible: NAI 560 — Last Edited on 21-MAY-2009,10:52

Gamma Calibrator Number 425

Neutron Calibration: NAI 560 — Base Calibration on 16-JUL-2009,17:45
Field Calibration on

	Short	Long
Background	0	0
Calibrator	1.0	1.0

Neutron Compatible: NAI 560 — Last Edited on 17-JUN-2009,16:52

Neutron Source Id TS4SMK
Formaty Formation Type 3 Curve, 1 Calibrate

FE Calibration: IRIS 544 — Field Calibration on 16-JUL-2009,17:45

	Measured	Calibrated (kilo-cs)
Reference 1	4963.0 4963.0	1.0 1.0
Reference 2	2038.0 2038.0	19.0 19.0

FE Compatible: IRIS 544 — Last Edited on 17-JUN-2009,16:52

Hi Compute PEM (deep = shallow) 1.000
Mn Compute PEM (deep = shallow) 1.000

Gamma Calibration: IRIS 544 — Field Calibration on 16-JUL-2009,17:45

	Measured	Calibrated (API)
Background	17	27
Calibrator (Gross)	280	450
Calibrator (Net)	274	436

Gamma Calibrator Number 425

Gamma Compatible: IRIS 544 — Last Edited on 21-MAY-2009,10:41

Resistivity Tool Compatible: IRIS 544 — Last Edited on 16-JUL-2009,17:45

Sonde Model: FE Mode
Sonde Serial/Id Id Test (test) 0

BEFORE SURVEY CALIBRATION

C:\logtoCoreu\BRAVEN-024\DDS-691.dat.dbs

General Compatible: AA 000 — Last Edited on 16-JUL-2009,17:45

General Parameters
Hole Diameter 0.310 ohm-metres
Mud Resistivity Temperature 20.000 degrees C
Water Level 0.000 metres
Density/Neutron Processing Water Level Density

Hole/Borehole Volume and Differential Caliper Parameters
Hole Volume Caliper from DDS
Hole Volume Caliper from DDS
Differential Caliper Caliper from DDS ohm
Caliper for Differential Caliper Caliper from DDS

Raw Parameters
Primarily used N/A
Density Calibration N/A
DNBA Correction N/A
DNBA Correction N/A

Field Calibration: DDS 691 — Field Calibration on 16-JUL-2009,17:45

	Measured	Calibrated (API)
Background	0	0
Calibrator (Gross)	280	450
Calibrator (Net)	270	436

Last Edited on 21-MAY-2009 10:42

Gamma Calibration Number 425

Density Calibration: DDS 691 — Base Calibration on 16-JUL-2009,17:45
Field Check on

Base Calibration
Shop Check

	Measured	Calibrated (sdu)
Bar Value	2646 1714	2646 1714
Reference 1	2646 1714	36347 35026
Reference 2	N/A N/A	N/A N/A

Field Check at Base

	Measured	Calibrated (sdu)
	0.0	0.0

Field Check

	Measured	Calibrated (sdu)
	0.0	0.0

Density Compatible: DDS 691 — Last Edited on 7-JUN-2009,06:29

Processing Type DDS
Density Tool Type TETRA3D
Aluminum Calibrator Number 1
Density Calibration Method Caliper from Density
Gamma Ray Coefficient 0.000
Mud Density 1.11 grams
Mud Viscosity 0.000 grams
BRD Hydrogen 0.000
Density Scale 1.00
Density Calibration (gm/cc) Depth Range

	Depth Range
2.00	0.00
2.50	0.00
2.60	0.00
2.70	0.00
2.80	0.00
2.90	0.00
3.00	0.00

Wet Hole Normalization — Measured g/cc — Calibrated g/cc

BRD Point 1	1.00	1.00
BRD Point 2	3.00	3.00
LSD Point 1	1.00	1.00
LSD Point 2	3.00	3.00

Dry Hole Normalization — Measured g/cc — Calibrated g/cc

BRD Point 1	1.00	1.00
BRD Point 2	3.00	3.00
LSD Point 1	1.00	1.00
LSD Point 2	3.00	3.00

Caliper Calibration: DDS 691 — Base Calibration on 16-JUL-2009,17:45
Field Calibration on

	Measured	Calibrated (inch)
Shop Cal	2.000	2.000
1	3.000	3.000
2	3733	1731.00
3	4466	2731.00
4	5199	3731.00
5	5932	4731.00
6	6665	5731.00
7	7398	6731.00
8	8131	7731.00
9	8864	8731.00
10	9597	9731.00

Field Calibration Measured Caliper Value Actual Caliper Value
0.00 0.00

Sonic Compatible: MSC 338 — Last Edited on 19-JUL-2009,17:45

Maximum Secondary Contrast 328.08 micro-seconds
Minimum Primary Contrast 164.04 micro-seconds
Limestone Transit Time 182.00 micro-seconds
Sandstone Transit Time 182.00 micro-seconds
Mud Transit Time 620.00 micro-seconds
Sonic Ref Pressure SYCA.400 (m Compensated Sonic Ref)
Transit Time for US Cycle MC.BK.DR (m Sonic 8/96)
Sonic Calibration SYCA
US Cycle Source 425 ohm
Transmitter Receiver 1 Offset 32.00 inches
Transmitter Receiver 2 Offset 32.00 inches
Transmitter Receiver 3 Offset 32.00 inches
Transmitter Receiver 4 Offset 32.00 inches

Gamma Calibration: NAI 560 — Field Calibration on 16-JUL-2009,17:45

	Measured	Calibrated (API)
Background	17	27
Calibrator (Gross)	280	450
Calibrator (Net)	274	436

Gamma Compatible: NAI 560 — Last Edited on 21-MAY-2009,10:52

Gamma Calibrator Number 425

Neutron Calibration: NAI 560 — Base Calibration on 16-JUL-2009,17:45
Field Calibration on

	Short	Long
Background	0	0
Calibrator	1.0	1.0

Neutron Compatible: NAI 560 — Last Edited on 17-JUN-2009,16:52

Neutron Source Id TS4SMK
Formaty Formation Type 3 Curve, 1 Calibrate

FE Calibration: IRIS 544 — Field Calibration on 16-JUL-2009,17:45

	Measured	Calibrated (kilo-cs)
Reference 1	4963.0 4963.0	1.0 1.0
Reference 2	2038.0 2038.0	19.0 19.0

FE Compatible: IRIS 544 — Last Edited on 17-JUN-2009,16:52

Hi Compute PEM (deep = shallow) 1.000
Mn Compute PEM (deep = shallow) 1.000

Gamma Calibration: IRIS 544 — Field Calibration on 16-JUL-2009,17:45

	Measured	Calibrated (API)
Background	17	27
Calibrator (Gross)	280	450
Calibrator (Net)	274	436

Gamma Calibrator Number 425

Gamma Compatible: IRIS 544 — Last Edited on 21-MAY-2009,10:41

Resistivity Tool Compatible: IRIS 544 — Last Edited on 16-JUL-2009,17:45

Sonde Model: FE Mode
Sonde Serial/Id Id Test (test) 0

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN-024
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	215.01 metres
Elevation Drill Floor	metres	Depth Driller	225.00 metres
Elevation Ground Level	metres	Depth Logger	225.00 metres

Weatherford

DIPMETER ANALYSIS

Verticality Analysis Interpretation Notes

17-JUL-2009 19:31

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:5000(horizontal) and 1:4000(vertical) respectively.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 10, 20, 50 or 100 metres(depending on the total range of the analysis). However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, **away** from the influence of any unusual magnetic effects. In the vicinity of ferromagnetic casing or other ferrous material, the analysis will generally begin at the end of the casing and all borehole positions thereafter will be relative to this datum.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logic\Comsoft\WRAVG-02#DQF-428-267.ini dbs

All Co-ordinates With Respect To Target, all depths in metres

Date Processed. 17-JUL-2009

First Depth. 48.80, 0.00 North, 0.00 East of Origin

Date Logged - - - -

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR	
Log	True	Tilt	Azi	North	East	Rng	Radius
49.00	49.00	1.6	35.9	0.00	0.00	47	0.01
50.00	50.00	1.6	35.9	0.01	0.01	47	0.01
51.00	51.00	2.1	55.2	0.04	0.03	47	0.07
52.00	52.00	2.2	53.4	0.07	0.08	49	0.10
53.00	53.00	2.6	45.8	0.10	0.09	49	0.13
54.00	54.00	2.7	62.3	0.13	0.12	44	0.18
55.00	55.00	2.9	62.3	0.15	0.14	44	0.21
56.00	56.00	3.1	62.3	0.18	0.16	44	0.26
57.00	56.99	3.6	40.6	0.24	0.23	43	0.33
58.00	57.99	3.7	60.5	0.29	0.27	43	0.39
59.00	58.99	3.7	26.3	0.34	0.30	42	0.46
60.00	59.99	3.8	26.3	0.39	0.34	42	0.52
61.00	60.99	4.4	88.5	0.39	0.41	42	0.58
62.00	61.98	4.4	87.6	0.38	0.50	42	0.64
63.00	62.98	4.9	108.4	0.34	0.57	56	0.69
64.00	63.97	5.1	126.4	0.30	0.65	61	0.75
65.00	64.96	5.2	126.4	0.25	0.73	61	0.80
66.00	65.96	5.2	70.7	0.44	0.72	113	0.94
67.00	66.96	5.5	59.3	0.50	0.79	58	0.94
68.00	67.95	5.8	89.1	0.56	0.79	58	1.00
69.00	68.95	5.3	89.1	0.56	0.89	58	1.12
70.00	69.95	5.6	88.0	0.56	1.04	61	1.19
71.00	70.94	5.6	176.8	0.56	1.09	61	1.23
72.00	71.94	6.0	179.5	0.46	1.11	67	1.21
73.00	72.94	6.1	179.5	0.36	1.12	67	1.21
74.00	73.94	6.1	182.6	0.26	1.14	77	1.17
75.00	74.92	6.1	180.2	0.15	1.15	83	1.16
76.00	75.91	6.1	180.2	0.05	1.16	83	1.16
77.00	76.91	6.5	182.6	-0.07	1.18	93	1.18
78.00	77.90	6.5	182.6	-0.19	1.20	93	1.20
79.00	78.90	6.6	182.5	-0.30	1.21	104	1.24
80.00	79.89	6.5	180.8	-0.41	1.22	108	1.29
81.00	80.88	6.5	180.8	-0.52	-1.24	113	1.34
82.00	81.87	6.6	181.6	-0.64	1.25	117	1.40
83.00	82.86	6.8	181.3	-0.76	1.27	122	1.46
84.00	83.85	6.8	181.3	-0.87	-1.29	124	1.51
85.00	84.85	6.9	181.0	-0.98	-1.30	127	1.63
86.00	85.85	6.8	181.8	-1.10	-1.32	130	1.72
87.00	86.84	6.8	178.7	-1.22	-1.34	132	1.81
88.00	87.83	7.0	178.7	-1.34	-1.36	135	1.91
89.00	88.83	7.0	173.8	-1.46	-1.39	138	2.02
90.00	89.82	7.8	181.2	-1.57	-1.40	138	2.11
91.00	90.81	7.8	181.2	-1.69	-1.40	138	2.21
92.00	91.80	7.5	183.5	-1.85	-1.44	142	2.33
93.00	92.79	8.2	183.1	-1.96	-1.45	143	2.44
94.00	93.78	7.5	179.8	-2.10	-1.47	145	2.56
95.00	94.77	8.1	182.2	-2.23	-1.49	146	2.68
96.00	95.76	7.8	179.8	-2.36	-1.50	148	2.80
97.00	96.75	7.8	174.9	-2.51	-1.53	148	2.94
98.00	97.74	8.2	176.2	-2.63	-1.56	149	3.06
99.00	98.74	8.2	176.4	-2.77	-1.59	150	3.19
100.00	99.73	8.2	175.9	-2.90	-1.62	151	3.32
101.00	100.72	8.2	175.9	-3.04	-1.65	152	3.45
102.00	101.72	8.4	175.6	-3.18	-1.69	156	3.60
103.00	102.69	8.1	175.4	-3.32	-1.72	153	3.74
104.00	103.68	8.5	174.6	-3.45	-1.76	153	3.88
105.00	104.67	8.1	174.8	-3.59	-1.79	153	4.01
106.00	105.66	8.1	174.8	-3.73	-1.83	153	4.15
107.00	106.65	8.1	175.4	-3.86	-1.86	154	4.29
108.00	107.64	8.2	175.4	-4.00	-1.90	155	4.43
109.00	108.63	8.2	175.9	-4.13	-1.93	155	4.56
110.00	109.62	7.9	175.9	-4.27	-1.97	155	4.70
111.00	110.61	8.1	175.9	-4.40	-2.00	156	4.84
112.00	111.60	8.2	172.9	-4.54	-2.04	156	4.98
113.00	112.59	8.2	174.5	-4.68	-2.08	156	5.12
114.00	113.58	8.2	174.5	-4.81	-2.11	157	5.26
115.00	114.57	8.4	173.1	-4.95	-2.15	157	5.40
116.00	115.56	8.5	177.1	-5.09	-2.18	157	5.54
117.00	116.55	8.4	176.2	-5.23	-2.22	157	5.68
118.00	117.54	8.4	175.6	-5.37	-2.25	157	5.82
119.00	118.53	8.4	175.6	-5.51	-2.29	157	5.96
120.00	119.52	8.4	175.2	-5.65	-2.32	158	6.11
121.00	120.51	8.4	176.2	-5.79	-2.36	158	6.25
122.00	121.50	7.6	176.2	-5.92	-2.39	158	6.39
123.00	122.49	8.4	174.6	-6.07	-2.42	158	6.53
124.00	123.48	8.4	176.2	-6.21	-2.46	158	6.67
125.00	124.47	8.3	176.6	-6.35	-2.49	158	6.82
126.00	125.46	8.4	176.0	-6.49	-2.53	159	6.96
127.00	126.45	8.6	173.9	-6.63	-2.56	159	7.10
128.00	127.44	8.1	177.0	-6.76	-2.59	159	7.24
129.00	128.43	8.1	177.0	-6.90	-2.62	159	7.38
130.00	129.42	7.8	180.2	-7.03	-2.64	159	7.51
131.00	130.41	8.2	178.0	-7.17	-2.66	160	7.65
132.00	131.40	8.2	178.0	-7.31	-2.68	160	7.79
133.00	132.39	8.2	178.0	-7.44	-2.70	160	7.93
134.00	133.38	7.6	179.8	-7.58	-2.73	160	8.07
135.00	134.37	8.0	181.0	-7.71	-2.75	160	8.19
136.00	135.36	8.0	179.4	-7.85	-2.77	161	8.32
137.00	136.35	8.0	179.4	-7.98	-2.79	161	8.46
138.00	137.34	7.6	181.9	-8.11	-2.80	161	8.58
139.00	138.33	7.7	181.9	-8.24	-2.82	161	8.70
140.00	139.32	7.7	181.9	-8.37	-2.84	161	8.83
141.00	140.32	7.6	179.6	-8.49	-2.86	161	8.96
142.00	141.31	7.6	179.6	-8.62	-2.88	161	9.09
143.00	142.30	7.6	179.6	-8.74	-2.90	161	9.22
144.00	143.29	7.7	181.9	-8.88	-2.92	162	9.35
145.00	144.28	6.8	180.2	-9.01	-2.94	162	9.48
146.00	145.27	7.9	180.2	-9.15	-2.96	162	9.62
147.00	146.26	8.5	183.2	-9.28	-2.98	162	9.75
148.00	147.25	8.5	183.2	-9.42	-3.00	162	9.89
149.00	148.24	8.0	180.6	-9.57	-3.02	162	10.04
150.00	149.23	8.0	183.5	-9.71	-3.04	163	10.18
151.00	150.22	8.8	182.7	-9.86	-3.06	163	10.33
152.00	151.21	8.8	182.7	-10.00	-3.08	163	10.47
153.00	152.20	8.9	184.3	-10.17	-3.10	163	10.63
154.00	153.19	8.9	181.9	-10.32	-3.11	163	10.77
155.00	154.18	8.9	181.9	-10.47	-3.12	163	10.92
156.00	155.17	9.5	181.5	-10.62	-3.14	164	11.07
157.00	156.15	9.2	184.4	-10.77	-3.15	164	11.23
158.00	157.14	9.2	183.2	-10.93	-3.16	164	11.38
159.00	158.13	8.8	181.8	-11.08	-3.18	164	11.53
160.00	159.12	8.8	181.8	-11.23	-3.19	164	11.68
161.00	160.10	9.1	184.4	-11.39	-3.21	164	11.83
162.00	161.09	9.1	180.9	-11.55	-3.22	164	11.99
163.00	162.08	9.4	182.3	-11.71	-3.24	164	12.15
164.00	163.06	9.3	183.6	-11.86	-3.26	165	12.30
165.00	164.05	9.3	183.6	-12.02	-3.28	165	12.46
166.00	165.04	9.4	188.9	-12.18	-3.30	165	12.62
167.00	166.02	9.4	182.1	-12.34	-3.32	165	12.78
168.00	167.01	9.4	182.1	-12.50	-3.34	165	12.94
169.00	168.00	9.4	180.8	-12.66	-3.36	165	13.09
170.00	168.98	9.4	180.8	-12.82	-3.38	165	13.25
171.00	169.97	9.5	181.5	-12.97	-3.40	165	13.41
172.00	170.96	9.2	180.7	-13.13	-3.42	165	13.57
173.00	171.95	9.2	183.0	-13.29	-3.45	165	13.73
174.00	172.93	9.2	179.5	-13.45	-3.47	166	13.89
175.00	173.92	9.2	179.5	-13.61	-3.49	166	14.05
176.00	174.91	9.4	183.0	-13.77	-3.51	166	14.21
177.00	175.89	9.3	183.9	-13.93	-3.53	166	14.37
178.00	176.88	9.3	183.9	-14.09	-3.55	166	14.53
179.00	177.87	9.7	181.2	-14.25	-3.57	166	14.69
180.00	178.85	8.6	185.1	-14.41	-3.59	166	14.85
181.00	179.84	9.3	179.1	-14.56	-3.61	166	15.01
182.00	180.83	8.3	183.9	-14.72	-3.63	166	15.16
183.00	181.82	8.3	183.9	-14.88	-3.65	166	15.32
184.00	182.81	8.5	185.6	-15.04	-3.67	166	15.48
185.00	183.80	8.2	187.3	-15.18	-3.66	166	15.59
186.00	184.79	8.2	187.1	-15.30	-3.67	166	15.73
187.00	185.78	8.3	187.7	-15.44	-3.67	167	15.87
188.00	186.77	8.3	187.7	-15.58	-3.68	167	15.99
189.00	187.76	8.2	187.0	-15.72	-3.69	167	16.13
190.00	188.75	8.2	186.2	-15.87	-3.70	167	16.29
191.00	189.74	8.1	186.1	-16.02	-3.72	167	16.43
192.00	190.73	8.2	185.0	-16.15	-3.71	167	16.57
193.00	191.72	8.2	185.0	-16.29	-3.71	167	16.71
194.00	192.70	8.7	187.9	-16.43	-3.72	167	16.85
195.00	193.69	8.6	188.5	-16.58	-3.74	167	16.99
196.00	194.68	8.6	188.5	-16.74	-3.75	167	17.14
197.00	195.67	8.8	187.3	-16.89	-3.73	168	17.30
198.00	196.66	8.8	187.3	-17.04	-3.72	168	17.45
199.00	197.65	8.8	187.1	-17.20	-3.70	168	17.60
200.00	198.63	9.2	187.1	-17.35	-3.74	168	17.75
201.00	199.62	9.2	187.1	-17.51	-3.77	168	17.91
202.00	200.61	9.2	186.5	-17.66	-3.79	168	18.06
203.00	201.60	9.2	185.4	-17.82	-3.76	168	18.21
204.00	202.58	9.2	185.1	-17.98	-3.73	168	18.37
205.00	203.57	9.2	188.1	-18.13	-3.78	168	18.52
206.00	204.56	9.2	188.1	-18.29	-3.83	168	18.68
207.00	205.55	9.0	187.2	-18.45	-3.79	168	18.83
208.00	206.53	9.2	187.6	-18.60	-3.79	168	18.98
209.00	207.52	9.2	188.4	-18.76	-3.79	168	19.14
210.00	208.51	9.2	186.3	-18.92	-3.80	169	19.29
211.00	209.50	9.2	185.1	-19.07	-3.82	169	19.45
212.00	210.48	9.1	185.1	-19.23	-3.84	169	19.61
213.00	211.47	9.1	187.7	-19.39	-3.82	169	19.76
214.00	212.46	9.2	188.4	-19.55	-3.84	169	19.92
215.00	213.45	9.2	185.2	-19.70	-3.84	169	20.07
216.00	214.43	9.2	184.5	-19.86	-3.85	169	20.23

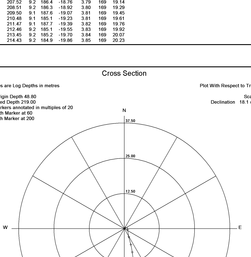
Cross Section

All Figures are Log Depths in metres

Plot With Respect to True North

Target Origin Depth 48.80
Last Probed Depth 216.00
Depth Markers annotated in multiples of 20
First Depth Marker at 60
Last Depth Marker at 200

Scale 1:500
Declination 18.1 deg East



Final Borehole Position

The last plotted depth is at
19.86 metres South
0.85 metres East
ie 20.23 metres from the origin
169 deg from True North

Vertical Sections

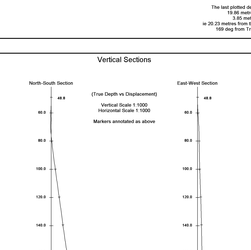
North-South Section

East-West Section

(True Depth vs Displacement)

Vertical Scale 1:1000
Horizontal Scale 1:1000

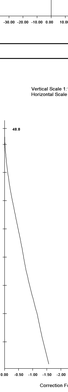
Markers annotated as above



Depth Correction Analysis

Vertical Scale 1:1000
Horizontal Scale 1:50

Log Depth

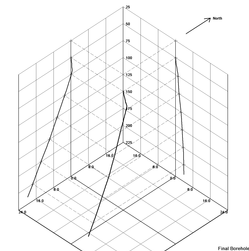


Depths		Depths		Depths	
Log	True	Log	True	Log	True
49.00	49.00	115.00	115.56	183.00	181.82
50.00	50.00	117.00	116.55	184.00	182.81
51.00	51.00	118.00	117.54	185.00	183.80
52.00	52.00	119.00	118.53	186.00	184.79
53.00	53.00	120.00	119.52	187.00	185.78
54.00	54.00	121.00	120.51	188.00	186.77
55.00	55.00	122.00	121.50	189.00	187.76
56.00	55.99	123.00	122.49	190.00	188.75
57.00	56.99	124.00	123.48	191.00	189.74
58.00	57.99	125.00	124.47	192.00	190.73
59.00	58.99	126.00	125.46	193.00	191.72
60.00	59.99	127.00	126.45	194.00	192.70
61.00	60.99	128.00	127.44	195.00	193.69
62.00	61.98	129.00	128.43	196.00	194.68
63.00	62.98	130.00	129.42	197.00	195.67
64.00	63.97	131.00	130.41	198.00	196.66
65.00	64.97	132.00	131.40	199.00	197.65
66.00	65.96	133.00	132.39	200.00	198.63
67.00	66.96	134.00	133.38	201.00	199.62
68.00	67.96	135.00	134.37	202.00	200.61
69.00	68.95	136.00	135.36	203.00	201.60
70.00	69.95	137.00	136.35	204.00	202.58
71.00	70.94	138.00	137.34	205.00	203.57
72.00	71.94	139.00	138.33	206.00	204.56
73.00	72.94	140.00	139.32	207.00	205.55
74.00	73.93	141.00	140.32	208.00	206.53
75.00	74.92	142.00	141.31	209.00	207.52
76.00	75.91	143.00	142.30	210.00	208.51
77.00	76.91	144.00	143.29	211.00	209.50
78.00	77.90	145.00	144.28	212.00	210.48
79.00	78.90	146.00	145.27	213.00	211.47
80.00	79.89	147.00	146.26	214.00	212.46
81.00	80.88	148.00	147.25	215.00	213.45
82.00	81.87	149.00	148.24	216.00	214.43
83.00	82.87	150.00	149.23		
84.00	83.86	151.00	150.22		
85.00	84.85	152.00	151.21		
86.00	85.85	153.00	152.20		
87.00	86.84	154.00	153.19		
88.00	87.83	155.00	154.18		
89.00	88.83	156.00	155.17		
90.00	89.82	157.00	156.15		
91.00	90.81	158.00	157.14		
92.00	91.80	159.00	158.13		
93.00	92.79	160.00	159.12		
94.00	93.78	161.00	160.10		
95.00	94.77	162.00	161.09		
96.00	95.76	163.00	162.08		
97.00	96.75	164.00	163.06		
98.00	97.74	165.00	164.05		
99.00	98.74	166.00	165.04		
100.00	99.73	167.00	166.02		
101.00	100.72	168.00	167.01		
102.00	101.72	169.00	168.00		
103.00	102.69	170.00	168.99		
104.00	103.68	171.00	169.97		
105.00	104.67	172.00	170.96		
106.00	105.66	173.00	171.95		
107.00	106.65	174.00	172.93		
108.00	107.64	175.00	173.92		
109.00	108.63	176.00	174.91		
110.00	109.62	177.00	175.89		
111.00	110.61	178.00	176.88		
112.00	111.60	179.00	177.87		
113.00	112.59	180.00	178.85		
114.00	113.58	181.00	179.84		
115.00	114.57	182.00	180.83		

3D Borehole Deviation

All figures are True Depths / displacements in metres
Target Origin Depth 48.80
Last Probed Depth 216.00

Plot With Respect To True North
Declination 18.1 deg East


25
North
50
75
100
125
150
175
200
225
250
-25
-50
-75
-100
-125
-150
-175
-200
-225
-

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN-024
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Depth Reference: Ground Level Elevation: 0.00 m
Elevation Drill Floor: metres
Elevation Ground Level: metres

Log Direction: Down
Depth Zero: 0.00 metres
Depth Unit: metres
Log Unit: metres

Log Date: 17-JUL-2009
Log Time: 15:16
Log Number: 1
Run Number: 1
Depth Driller: 200.00 metres
Depth Logged: 200.00 metres

Weatherford

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

COMPLIANCE COAL CORP
RAVEN-024
UNDEFINED
BRITISH COLUMBIA
CANADA

Depth Scale: 1:200 - Vertical Scale
Depth Reference: 0 Depth Zero
Depth Unit: metres
Elevation Ground Level: metres

Log Date: 17-JUL-2009 20:42
Log Time: 15:16
Log Number: 1
Run Number: 1
Depth Driller: 200.00 metres
Depth Logged: 200.00 metres

Log Direction: Down
Elevation Drill Floor: metres

Log Unit: metres
Log Unit

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-024
PROVINCE/COUNTY	UNDEFINED
COUNTRY/STATE	BRITISH COLUMBIA
LSD	CANADA
SEC	
TWP	
RGE	
Other Services	
Licence Number	
Permanent Datum (D.F., Elevation of Datum)	
Log Measured From	
Drilling Measured From	
Date	16-JUL-2009
Run Number	1
Depth Driller	220.05
Depth Logger	220.05
Bottom Log Interval	220.05
Top Log Interval	0.00
Casing Driller	25.30
Casing Logger	70.10
Bit Size	152.000
Type Fluid in Hole	WATER
Density	
Viscosity	
Fluid Loss	
Source of Sample	
Rm @ Measured Temp	
Rmf @ Measured Temp	
Rmc @ Measured Temp	
Source of Rmf / Rmc	
Rm @ BHT	
Max Recorded Temp	
Equipment Number	
Location	
Recorded By	
Witnessed By	
LSRS	C. LEONARDI
RSCS	C. LEONARDI
RSCS	C. LEONARDI

Depth Scale Units	metres		
Time Scale Units	seconds		
Drilling Measured From			
Composite Log			
Other Services			
Permanent Datum			
Log Measured From			
Elevation of Datum			
Licence Number			
Location			
Township			
Range			
Meridian			
Section			
Province			
Country			
Well			
Company			
Remarks			
Log Type	DENSITY		
Run Number	1		
Depth Driller	220.05		
Depth Logger	220.05		
Bottom Log Interval	220.05		
Top Log Interval	0.00		
Casing Driller	25.30		
Casing Logger	70.10		
Bit Size	152.000		
Type Fluid in Hole	WATER		
Density			
Viscosity			
Fluid Loss			
Source of Sample			
Rm @ Measured Temp			
Rmf @ Measured Temp			
Rmc @ Measured Temp			
Source of Rmf / Rmc			
Rm @ BHT			
Max Recorded Temp			
Equipment Number			
Location			
Recorded By			
Witnessed By			
LSRS	C. LEONARDI		
RSCS	C. LEONARDI		
RSCS	C. LEONARDI		

Depth Scale Units	metres		
Time Scale Units	seconds		
Drilling Measured From			
Composite Log			
Other Services			
Permanent Datum			
Log Measured From			
Elevation of Datum			
Licence Number			
Location			
Township			
Range			
Meridian			
Section			
Province			
Country			
Well			
Company			
Remarks			
Log Type	NEUTRON		
Run Number	1		
Depth Driller	220.05		
Depth Logger	220.05		
Bottom Log Interval	220.05		
Top Log Interval	0.00		
Casing Driller	25.30		
Casing Logger	70.10		
Bit Size	152.000		
Type Fluid in Hole	WATER		
Density			
Viscosity			
Fluid Loss			
Source of Sample			
Rm @ Measured Temp			
Rmf @ Measured Temp			
Rmc @ Measured Temp			
Source of Rmf / Rmc			
Rm @ BHT			
Max Recorded Temp			
Equipment Number			
Location			
Recorded By			
Witnessed By			
LSRS	C. LEONARDI		
RSCS	C. LEONARDI		
RSCS	C. LEONARDI		

Depth Scale Units	metres		
Time Scale Units	seconds		
Drilling Measured From			
Composite Log			
Other Services			
Permanent Datum			
Log Measured From			
Elevation of Datum			
Licence Number			
Location			
Township			
Range			
Meridian			
Section			
Province			
Country			
Well			
Company			
Remarks			
Log Type	NGS		
Run Number	1		
Depth Driller	220.05		
Depth Logger	220.05		
Bottom Log Interval	220.05		
Top Log Interval	0.00		
Casing Driller	25.30		
Casing Logger	70.10		
Bit Size	152.000		
Type Fluid in Hole	WATER		
Density			
Viscosity			
Fluid Loss			
Source of Sample			
Rm @ Measured Temp			
Rmf @ Measured Temp			
Rmc @ Measured Temp			
Source of Rmf / Rmc			
Rm @ BHT			
Max Recorded Temp			
Equipment Number			
Location			
Recorded By			
Witnessed By			
LSRS	C. LEONARDI		
RSCS	C. LEONARDI		
RSCS	C. LEONARDI		

BOREHOLE RECORD

Last Edited: 17-JUL-2009 20:24

Bit Size millimetres	Depth From metres	Depth To metres
152.000	0.00	70.10
152.000	70.10	101.50
147.000	101.50	220.05

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	152.000	0.00	70.10	25.30

REMARKS

COORDINATES:
NORTHING:
5452240

EASTING:
365960

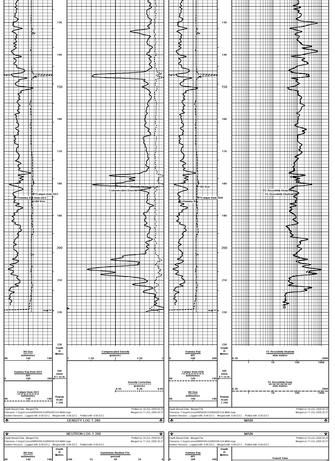
TOOL RUNS:
RNS,DDB,NNZ,SONIC,SQDVERT,SCANNER

BORE WALL COND : GOOD
BORE HOLE COND : GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.


DENSITY LOG 1:200
NEUTRON LOG 1:200
NGS
Weatherford Canada Partnership
Depth Scale: 1 cm = 1 m
Time Scale: 1 cm = 10 sec
Gamma Ray (API)
Caliper (Inch)
Density Correction (g/cm3)
Compensated Density (g/cm3)
Neutron Porosity (%)
Total Gamma (API)
U (ppm)
Th (ppm)
K (%)
Spectral Gamma Ray (API)
Caliper (Inch)
Bit Size (Inch)
Gamma Ray (API)
Caliper (Inch)
Bit Size (Inch)
Total Gamma (API)
U (ppm)
Th (ppm)
K (%)
Spectral

Schlumberger

Field Print

Calculation	Depth
Mode	Normal
Depth Type	Measured Depth
Scale	1:240 (Imperial)
Well	Well 1
Wellbore	Wellbore 1
Run	Run 1
Depth Range	3,000.00 ft - 3,500.00 ft
Date	Thursday, January 01, 1970 01:00
Axis Unit	ft

Schlumberger

Schlumberger
Field Office
Houston

Field
Block
County
State

Company
Well
Location
Elevation: KB: , DF: , GL:
API Serial No.
Log Date: Thursday, January 01, 1970
Log No.: 1
Run No.: 1
Depth Reference: KB
Permanent Datum: GL
Elevation: 0.00 ft
Log Measured From: KB, 0.00 ft above Permanent Datum

Bit Run	Bit Size (in)	From (ft)	To (ft)	Meters (ft)
1	8.500	0.00	3,500.00	3,500.00

Casing Type	Size (in)	Weight (lb/ft)	Grade	Top (ft)	Bottom (ft)
Casing	9.625	36.00	J-55	0.00	3,500.00

Fluid Type	Density (lb/gal)	Viscosity (s/qt)	pH	Fluid Loss (mL)	Rm (ohm.m)	Rmf (ohm.m)	Rmc (ohm.m)
Water Mud	8.50	26.00	7.00	10.00	0.000	0.000	0.000

Max Temp: 0.00 degF
Max Rec Temp: 0.00 degF
Equipment: Equipment 1
Location: Location 1
Recorded By: Recorded By
Witnessed By: Witnessed By

Gamma Ray (GR) (gAPI) 0 150
Caliper (CALI) (in) 6 16
Bit Size (BIT) (in) 6 16
Deep Resistivity (RDEP) (ohm.m) 0.2 2000
Medium Resistivity (RMED) (ohm.m) 0.2 2000
Shallow Resistivity (RSHA) (ohm.m) 0.2 2000
Density Correction (DRHO) (g/cm3) -0.25 0.25
Bulk Density (RHOB) (g/cm3) 1.95 2.95
Neutron Porosity (NPHI) (%) 45 -15
Neutron Porosity (NPOR) (%) 45 -15
Compressional Slowness (DTC) (us/ft) 140 40
Shear Slowness (DTS) (us/ft) 240 80

60CM COMPENSATED SONIC

COMPANY COMPLIANCE COAL CORP
WELL RAVEN-024
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA
Weatherford

Elevation	1000.00	metres	
Log Measured From	KB	5.00	metres
Drilling Measured From	KB	5.00	metres
Total Depth (Logger)	1000.00	metres	
Total Depth (Driller)	1000.00	metres	
Casing Shoe	1000.00	metres	
Hole Fluid	Water		
Density	1.00	kg/m³	
Viscosity	1.00	mPa.s	
Fluid Level	5.00	metres	
Max Temperature	25.00	degC	
Equipment	1002		
Logging Unit	1		
Operating Rig Time	NA		
Truck Number	1		
Engineer	Kim Hoang		
Witness	Ryan Gill		

BOREHOLE RECORD			
	Depth	Diameter	Date
Bit Size	1000.00	152.40	2006-10-20
Hole Size	1000.00	152.40	2006-10-20
Casing Shoe	1000.00	152.40	
Casing Shoe	1000.00	152.40	

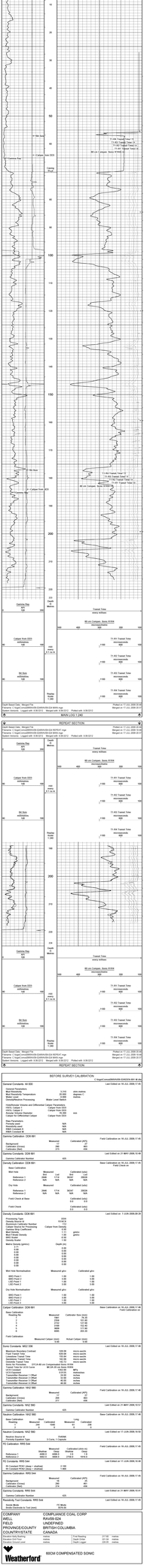
Last Edited: 21.JUL.2006 20:44

CASING RECORD				
Type	Size Inches	Depth From Metres	Shoe Depth Metres	Weight Kg/m
Casing	152.400	0.00	1000.00	0.00

REMARKS

CLOCKWATCH
NORTH
SOUTH
GEOMAG
TOOL RUN
BRUNSWICK MACHINE SQUIDRYT SCRAPER
ACRE POLY CORE 0/000
ACRE POLY CORE 0/000
SCRATCH CARING ABS
WELL BAR-LOCKED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements on properly run, calibrated and maintained equipment. Weatherford Canada Partnership will not be responsible for losses, costs, or damages incurred as a result of any action or inaction taken in reliance on such data, nor will it be responsible for any loss, claim, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of its officers, agents or employees. These interpretations are also subject to our standard terms and conditions.


MAIN LOG 1:240
Depth Scale 1:240
Sonic Compensated Sonic
Gamma Ray
Caliper from DZ0
Bit Size
Delta-T
Transit Time
microseconds
Caliper from DZ0
Bit Size
Delta-T
Transit Time
microseconds
Caliper from DZ0
Bit Size
Delta-T
Transit Time
microseconds
Caliper from DZ0
Bit Size
Delta-T
Transit Time
microseconds
Depth Scale 1:240
Depth Scale 1:240
Depth Scale 1:240

VERTICALITY ANALYSIS

COMPANY: COMPLIANCE COAL CORP
WELL: RAVEN 024
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

Weatherford — VERTICALITY ANALYSIS

BOREHOLE RECORD

Last Edited: 17-JUL-2009 20:24

Bit Size (millimetres)	Depth From (metres)	Depth To (metres)
152.000	0.00	70.10
140.000	70.10	101.00
127.000	101.00	220.00

CASING RECORD

Type	Size (millimetres)	Depth From (metres)	Drive Depth (metres)	Weight (kg/metre)
CASING	152.000	0.00	70.10	24.00

REMARKS

COORDINATES
NAD27(NAD)
5A5242

SAETAN
BEHMS

COIL RUNS
BRILCOE,NAV,SONC,ISGYMRT,SCANNER

BORE WALL CONDI - GOOD
BORE HOLE CONDI - GOOD

KOH FLOWING WELL

Verticality Analysis Interpretation Notes

17-JUL-2009 19:01

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:5000(metres) and 1:46800(imperial), and the minimum 1:1.

The analysis is derived by integrating 10x6 sampled data down the borehole. The listing supplied will contain a maximum of 200 points or multiples of 1, 2, 5, 10, 20, 50 or 100 extrapolated depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects. Such effects are usually caused by casing, but may also be caused by mineralization. So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale. The default scale is that of the cross section for the entire hole.

Grass below is a full description of the parameters displayed on the viewing listing.

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The line vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\Inges\Cmvwin\BWRAVEN-024\CRT-429-247.W.dis

All Co-ordinates With Respect To True North, All depths in metres.

First Depth: 49.60, 0.00 North, 0.00 East of Origin

Date Processed: 17-JUL-2009
Date Logged: ----

DEPTH Log	DEPTH True	BOREHOLE Tilt	BOREHOLE Azi	AXIAL CO-ORDS North	AXIAL CO-ORDS East	POLAR Dist	POLAR Bearing
49.60	49.60	1.6	20.9	0.50	0.90	.41	0.01
50.00	50.00	1.9	20.9	0.50	0.90	.41	0.01
51.00	51.00	2.0	49.7	0.64	0.95	.47	0.07
52.00	52.00	2.4	49.7	0.79	1.02	.54	0.09
53.00	53.00	2.6	52.9	0.94	1.11	.62	0.11
54.00	54.00	2.7	62.5	0.13	0.12	.64	0.16
55.00	55.00	2.8	62.5	0.13	0.12	.64	0.16
56.00	56.00	3.1	62.5	0.13	0.12	.64	0.26
57.00	56.99	3.6	60.6	0.24	0.23	.43	0.33
58.00	57.99	4.0	61.5	0.36	0.35	.51	0.39
59.00	58.99	4.2	61.5	0.50	0.48	.62	0.46
60.00	59.99	4.2	112.6	0.58	0.55	.42	0.50
61.00	60.99	4.4	112.6	0.66	0.63	.47	0.54
62.00	61.99	4.4	97.6	0.39	0.45	.51	0.58
63.00	62.99	4.9	108.4	0.34	0.57	.56	0.69
64.00	63.99	5.1	108.4	0.29	0.69	.61	0.77
65.00	64.99	5.3	26.9	0.37	0.81	.61	0.77
66.00	65.98	5.2	70.7	0.44	0.72	.58	0.85
67.00	66.98	5.2	70.7	0.52	0.63	.58	0.93
68.00	67.98	5.2	88.1	0.56	0.57	.51	1.00
69.00	68.98	5.3	88.1	0.58	0.50	.59	1.12
70.00	69.98	5.3	88.1	0.60	0.42	.67	1.24
71.00	70.98	5.3	178.6	0.56	0.41	.66	1.33
72.00	71.98	5.3	178.6	0.52	0.41	.64	1.42
73.00	72.97	6.0	192.7	0.46	0.44	.72	1.51
74.00	73.97	6.5	192.7	0.39	0.47	.79	1.59
75.00	74.97	7.0	192.7	0.32	0.50	.87	1.67
76.00	75.91	8.3	180.5	0.24	0.17	.88	1.17
77.00	76.91	8.9	180.5	0.16	0.17	.92	1.17
78.00	77.91	9.5	180.5	0.16	0.16	.95	1.20
79.00	78.89	8.6	182.5	-0.30	1.21	.104	1.24
80.00	79.89	8.6	182.5	-0.52	1.29	.114	1.24
81.00	80.89	8.6	182.5	-0.52	1.29	.114	1.24
82.00	81.87	8.6	181.6	-0.64	1.25	.117	1.40
83.00	82.87	8.6	181.6	-0.76	1.21	.120	1.57
84.00	83.86	8.6	181.6	-0.87	1.28	.124	1.63
85.00	84.85	8.9	181.0	-0.98	1.30	.127	1.63
86.00	85.84	9.1	181.0	-1.10	1.32	.131	1.63
87.00	86.83	9.1	181.0	-1.23	1.34	.135	1.63
88.00	87.83	7.0	179.6	-1.33	1.36	.134	1.90
89.00	88.82	7.0	179.6	-1.42	1.38	.137	2.07
90.00	89.82	7.0	179.6	-1.51	1.40	.140	2.21
91.00	90.81	7.1	178.1	-1.70	1.42	.146	2.21
92.00	91.80	7.1	178.1	-1.89	1.44	.152	2.21
93.00	92.79	7.1	178.1	-2.08	1.46	.158	2.44
94.00	93.79	7.5	179.8	-2.10	1.47	.145	2.56
95.00	94.78	8.0	179.8	-2.12	1.48	.132	2.68
96.00	95.78	8.2	182.0	-2.17	1.51	.137	2.81
97.00	96.75	7.6	178.7	-2.31	1.53	.146	2.94
98.00	97.75	7.6	178.7	-2.45	1.55	.155	3.07
99.00	98.74	7.7	178.7	-2.77	1.58	.170	3.21
100.00	99.74	7.7	178.7	-3.09	1.61	.185	3.34
101.00	100.72	8.4	177.1	-3.04	1.66	.191	3.48
102.00	101.71	8.4	177.1	-3.00	1.71	.196	3.61
103.00	102.69	8.4	177.1	-3.10	1.76	.201	3.74
104.00	103.68	8.5	174.6	-3.45	1.76	.153	3.88
105.00	104.67	8.5	174.6	-3.80	1.76	.105	4.01
106.00	105.66	8.5	174.6	-3.73	1.84	.111	4.01
107.00	106.65	8.1	175.4	-3.66	1.90	.104	4.29
108.00	107.64	7.9	175.4	-3.59	1.96	.097	4.56
109.00	108.63	7.9	175.4	-3.53	2.02	.090	4.83
110.00	109.62	7.5	175.6	-3.27	1.97	.105	4.70
111.00	110.61	7.5	175.6	-3.01	1.92	.120	4.57
112.00	111.60	7.5	175.6	-2.74	1.87	.134	4.44
113.00	112.59	8.2	174.6	-2.68	2.08	.158	5.12
114.00	113.58	8.2	174.6	-2.62	2.29	.182	5.79
115.00	114.57	8.2	174.6	-2.56	2.50	.206	6.47
116.00	115.56	8.5	177.1	-3.09	2.18	.157	5.54
117.00	116.55	8.5	177.1	-3.62	1.87	.108	4.61
118.00	117.54	8.6	175.2	-3.71	1.87	.107	5.02
119.00	118.53	8.4	175.2	-3.51	2.29	.157	5.91
120.00	119.52	8.4	175.2	-3.31	2.71	.207	6.80
121.00	120.51	8.4	176.2	-3.21	2.76	.208	7.09
122.00	121.50	8.4	176.2	-3.10	2.80	.208	6.99
123.00	122.49	8.4	176.2	-2.99	2.85	.208	6.89
124.00	123.48	8.5	176.9	-2.51	2.84	.208	6.89
125.00	124.47	8.5	176.9	-2.03	2.83	.208	6.89
126.00	125.46	8.4	176.9	-1.49	2.83	.208	6.89
127.00	126.45	8.4	176.9	-0.95	2.82	.208	6.89
128.00	127.44	8.4	176.9	-0.41	2.81	.208	6.89
129.00	128.43	7.6	180.1	-0.90	2.81	.159	7.36
130.00	129.42	7.6	180.1	-1.39	2.81	.110	7.83
131.00	130.41	8.2	178.0	-1.77	2.86	.080	7.83
132.00	131.40	8.2	178.0	-2.31	2.90	.050	7.78
133.00	132.39	8.2	178.0	-2.85	2.95	.020	7.73
134.00	133.38	8.2	178.0	-3.38	2.99	.010	7.68
135.00	134.37	8.0	181.0	-3.71	2.75	.160	8.19
136.00	135.36	7.8	181.0	-4.04	2.51	.310	8.70
137.00	136.35	7.4	181.0	-4.36	2.27	.460	9.21
138.00	137.34	7.6	181.0	-4.11	2.60	.161	8.58
139.00	138.33	7.8	181.0	-3.86	2.93	.138	8.58
140.00	139.32	7.8	181.0	-3.61	3.26	.115	8.58
141.00	140.32	7.6	179.9	-3.29	2.96	.162	8.76
142.00	141.31	7.6	179.9	-2.97	2.66	.209	8.94
143.00	142.30	7.6	179.9	-2.65	2.37	.256	9.12
144.00	143.29	7.7	181.9	-2.68	2.52	.163	9.15
145.00	144.28	7.7	181.9	-2.71	2.67	.070	9.18
146.00	145.27	7.8	181.9	-2.74	2.82	.023	9.21
147.00	146.26	8.0	183.1	-2.91	2.91	.031	9.21
148.00	147.25	8.0	183.1	-3.08	2.99	.039	9.21
149.00	148.24	8.0	183.1	-3.25	3.08	.047	9.21
150.00	149.23	8.0	183.1	-3.42	3.16	.055	9.21
151.00	150.22	8.0	183.1	-3.59	3.25	.063	9.21
152.00	151.21	8.0	183.1	-3.76	3.33	.071	9.21
153.00	152.20	8.0	183.1	-3.93	3.42	.079	9.21
154.00	153.19	8.0	181.9	-3.92	3.11	.183	10.07
155.00	154.18	8.0	181.9	-3.91	2.80	.287	10.93
156.00	155.17	8.0	181.9	-3.90	2.49	.391	11.79
157.00	156.16	8.0	182.4	-4.07	2.15	.164	11.23
158.00	157.15	8.0	182.4	-4.24	1.81	.063	10.67
159.00	158.14	8.0	182.4	-4.41	1.47	.038	10.11
160.00	159.11	9.1	183.2	-11.24	3.19	.164	11.68
161.00	160.07	9.1	183.2	-18.07	4.91	.290	13.25
162.00	161.04	9.4	182.6	-11.55	3.24	.164	12.54
163.00	162.06	9.4	182.6	-11.71	3.34	.165	12.54
164.00	163.07	9.4	182.6	-11.87	3.43	.166	12.54
165.00	164.09	9.4	182.6	-12.03	3.53	.167	12.54
166.00	165.04	9.4	182.6	-12.16	3.50	.165	12.52
167.00	166.00	9.4	182.6	-12.29	3.46	.163	12.50
168.00	167.01	9.4	182.6	-12.42	3.43	.161	12.48
169.00	168.00	9.4	182.6	-12.56	3.39	.165	13.06
170.00	169.00	9.4	182.6	-12.69	3.36	.169	13.64
171.00	170.00	9.4	182.6	-12.82	3.32	.173	14.22
172.00	170.96	9.2	180.7	-13.13	3.42	.165	13.51
173.00	171.92	9.1	180.7	-13.44	3.52	.157	12.80
174.00	172.88	9.1	180.7	-13.75	3.62	.149	12.80
175.00	173.84	9.0	181.1	-13.81	3.49	.146	13.05
176.00	174.80	8.9	181.1	-13.87	3.36	.143	13.30
177.00	175.77	8.9	181.1	-13.93	3.23	.140	13.55
178.00	176.73	8.9	181.1	-13.99	3.10	.137	13.80
179.00	177.69	8.9	181.1	-14.05	2.97	.134	14.05
180.00	178.65	8.9	181.1	-14.11	2.84	.131	14.30
181.00	179.61	8.9	181.1	-14.17	2.71	.128	14.55
182.00	180.57	8.9	181.1	-14.23	2.58	.125	14.80
183.00	181.53	8.9	181.1	-14.29	2.45	.122	15.05
184.00	182.50	8.7	181.9	-14.32	2.32	.116	15.16
185.00	183.46	8.5	182.6	-14.35	2.19	.110	15.27
186.00	184.42	8.3	183.9	-14.72	2.03	.166	15.16
187.00	185.38	8.3	183.9	-15.09	1.87	.222	15.05
188.00	186.34	8.3	183.9	-15.51	1.65	.280	15.05
189.00	187.31	8.3	183.9	-15.93	1.42	.338	15.05
190.00	188.27	8.3	183.9	-16.35	1.20	.396	15.05
191.00	189.23	8.3	183.9	-16.77	0.97	.454	15.05
192.00	190.19	8.3	186.1	-16.91	0.70	.167	16.43
193.00	191.15	8.3	186.1	-17.05	0.43	.120	17.81
194.00	192.11	8.3	186.1	-17.19	0.16	.073	19.71
195.00	193.08	8.7	187.1	-17.35	0.14	.067	19.86
196.00	194.04	9.1	187.1	-17.51	0.12	.061	20.01
197.00	195.00	9.5	187.1	-17.67	0.10	.055	20.16
198.00	195.96	9.9	187.1	-17.83	0.08	.049	20.31
199.00	196.92	10.3	187.1	-17.99	0.06	.043	20.46
200.00	197.88	10.7	187.1	-18.15	0.04	.037	20.61
201.00	198.84	11.1	187.1	-18.31	0.02	.031	20.76
202.00	199.80	11.5	187.1	-18.47	0.00	.025	20.91
203.00	200.76	9.2	186.5	-18.62	0.00	.169	19.26
204.00	201.73	9.2	186.5	-18.77	0.00	.313	17.61
205.00	202.69	9.2	186.5	-18.92	0.00	.457	15.96
206.00	203.65	9.2	186.5	-19.07	0.00	.601	14.31
207.00	204.61	9.2	186.5	-19.22	0.00	.745	12.66
208.00	205.57	9.2	187.2	-19.45	0.00	.888	11.01
209.00	206.53	9.2	187.2	-19.68	0.00	.968	9.36
210.00	207.49	9.2	187.2	-19.91	0.00	.968	7.71
211.00	208.45	9.2	187.2	-20.14	0.00	.968	6.06
212.00	209.41	9.1	187.7	-19.39	3.82	.968	19.76
213.00	210.37	9.1	187.7	-18.64	7.64	.968	33.46
214.00	211.33	9.1	187.7	-17.89	11.46	.968	47.16
215.00	212.29	9.2	184.6	-19.66	3.85	.169	20.23

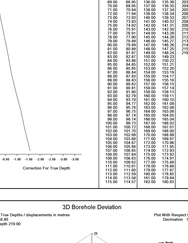
Cross Section

All Figures are Log Depths in metres

Target Origin Depth 49.60
Last Plotted Depth 219.00
Depth Markers annotated in multiples of 20
First Depth Plotted 49.60
Last Depth Marker at 200

Plot With Respect to True North

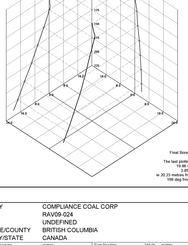
Scale 1:500
Declination: 19.1 deg East



Final Borehole Position

The last plotted depth is at
19.98 metres South
0.00 metres East
or 20.23 metres from the origin
189 deg from True North

Vertical Sections



Depth Correction Analysis

Depths Log	Depths True	Depths Log	Depths True	Depths Log	Depths True
49.60	49.60	116.00	115.56	183.00	181.87
50.00	50.00	117.00	116.55	184.00	182.50
51.00	51.00	118.00	117.54	185.00	183.46
52.00	52.00	119.00	118.53	186.00	184.42
53.00	53.00	120.00	119.52	187.00	185.38
54.00	54.00	121.00	120.51	188.00	186.34
55.00	55.00	122.00	121.50	189.00	187.31
56.00	56.00	123.00	122.49	190.00	188.27
57.00	56.99	124.00	123.48	191.00	189.23
58.00	57.99	125.00	124.47	192.00	190.19
59.00	58.99	126.00	125.46	193.00	191.15
60.00	59.99	127.00	126.45	194.00	192.11
61.00	60.99	128.00	127.44	195.00	193.08
62.00	61.99	129.00	128.43	196.00	194.04
63.00	62.99	130.00	129.42	197.00	195.00
64.00	63.99	131.00	130.41	198.00	195.96
65.00	64.99	132.00	131.40	199.00	196.92
66.00	65.98	133.00	132.39	200.00	197.88
67.00	66.98	134.00	133.38	201.00	198.84
68.00	67.98	135.00	134.37	202.00	199.80
69.00	68.98	136.00	135.36	203.00	200.76
70.00	69.98	137.00	136.35	204.00	201.73
71.00	70.98	138.00	137.34	205.00	202.69
72.00	71.98	139.00	138.33	206.00	203.65
73.00	72.97	140.00	139.32	207.00	204.61
74.00	73.97	141.00	140.32	208.00	205.57
75.00	74.97	142.00	141.31	209.00	206.53
76.00	75.91	143.00	142.30	210.00	207.49
77.00	76.91	144.00	143.29	211.00	208.45
78.00	77.91	145.00	144.28	212.00	209.41
79.00	78.89	146.00	145.27	213.00	210.37
80.00	79.89	147.00	146.26	214.00	211.33
81.00	80.89	148.00	147.25	215.00	212.29
82.00	81.87	149.00	148.24		
83.00	82.87	150.00	149.23		
84.00	83.86	151.00	150.22		
85.00	84.85	152.00	151.21		
86.00	85.84	153.00	152.20		
87.00	86.83	154.00	153.19		
88.00	87.83	155.00	154.18		
89.00	88.82	156.00	155.17		
90.00	89.82	157.00	156.16		
91.00	90.81	158.00	157.15		
92.00	91.80	159.00	158.14		
93.00	92.79	160.00	159.11		
94.00	93.79	161.00	160.07		
95.00	94.78	162.00	161.04		
96.00	95.78	163.00	162.06		
97.00	96.75	164.00	163.07		
98.00	97.75	165.00	164.09		
99.00	98.74	166.00	165.04		
100.00	99.74	167.00	166.00		
101.00	100.72	168.00	167.01		
102.00	101.71	169.00	168.00		
103.00	102.69	170.00	169.00		
104.00	103.68	171.00	170.00		
105.00	104.67	172.00	170.96		
106.00	105.66	173.00	171.92		
107.00	106.65	174.00	172.88		
108.00	107.64	175.00	173.84		
109.00	108.63	176.00	174.80		
110.00	109.62	177.00	175.77		
111.00	110.61	178.00	176.73		
112.00	111.60	179.00	177.69		
113.00	112.59	180.00	178.65		
114.00	113.58	181.00	179.61		
115.00	114.57	182.00	180.57		

3D Borehole Deviation

All figures are True Depths / displacements in metres.
First Depth 49.60
Last Plotted Depth 219.00

Plot With Respect to True North
Declination: 19.1 deg East

Final Borehole Position

The last plotted depth is at
19.98 metres South
0.00 metres East
or 20.23 metres from the origin
189 deg from True North

COMPANY	COMPLIANCE COAL CORP		
WELL	RAVEN 024		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	Total Reading	219.01 metres
Elevation Ground level	metres	Total Logged	219.00 metres
Elevation Grd Level	metres	Depth Logger	220.00 metres

Weatherford — VERTICALITY ANALYSIS

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-025
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Log Type	Date	Depth Measured From	Depth Logged
Density Short Spaced	21-JUL-2009	Ground Level	277.00
Density Compensated	21-JUL-2009	Ground Level	277.00
Caliper	21-JUL-2009	Ground Level	277.00
Gamma Ray	21-JUL-2009	Ground Level	277.00
FE Resistivity Deep	21-JUL-2009	Ground Level	277.00
FE Resistivity Shallow	21-JUL-2009	Ground Level	277.00
Density Short Spaced	21-JUL-2009	Ground Level	277.00
Density Compensated	21-JUL-2009	Ground Level	277.00
Caliper	21-JUL-2009	Ground Level	277.00
Gamma Ray	21-JUL-2009	Ground Level	277.00
FE Resistivity Deep	21-JUL-2009	Ground Level	277.00
FE Resistivity Shallow	21-JUL-2009	Ground Level	277.00

Log Type	Run	Drill Bit Size (mm)	Top Depth (m)	Bottom Depth (m)
Density Short Spaced	1	215.9	12.00	277.00
Density Compensated	1	215.9	12.00	277.00
Caliper	1	215.9	12.00	277.00
Gamma Ray	1	215.9	12.00	277.00
FE Resistivity Deep	1	215.9	12.00	277.00
FE Resistivity Shallow	1	215.9	12.00	277.00

Log Type	Tool Serial No.	Detector Serial No.	Source Serial No.	Source Strength (mCi)
Density Short Spaced	2134-TC-2006	2134-TC-2006	2134-TC-2006	10.0
Density Compensated	2134-TC-2006	2134-TC-2006	2134-TC-2006	10.0
Caliper	2134-TC-2006	2134-TC-2006	2134-TC-2006	10.0
Gamma Ray	2134-TC-2006	2134-TC-2006	2134-TC-2006	10.0
FE Resistivity Deep	2134-TC-2006	2134-TC-2006	2134-TC-2006	10.0
FE Resistivity Shallow	2134-TC-2006	2134-TC-2006	2134-TC-2006	10.0

Log Type	Tool Position	Measure Point Offset (m)	Measure Point Above Ground Level (m)
Density Short Spaced	Decentralized	0.00	0.00
Density Compensated	Decentralized	0.00	0.00
Caliper	Decentralized	0.00	0.00
Gamma Ray	Decentralized	0.00	0.00
FE Resistivity Deep	Decentralized	0.00	0.00
FE Resistivity Shallow	Decentralized	0.00	0.00

BOREHOLE RECORD

Last Edited: 21-JUL-2009 13:21

Bit Size millimetres	Depth From metres	Depth To metres
165.900	0.00	12.90
179.000	12.90	110.00
165.900	110.00	146.00
150.000	146.00	214.60

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/m
	165.000	0.00	12.00	20.30

REMARKS

COORDINATES
EASTING:
385550

NORTHING:
5484080

TOOL RUNS
9M/LOOK DPV/ERT

BORE WALL COND: POOR
BORE HOLE COND: OOOO

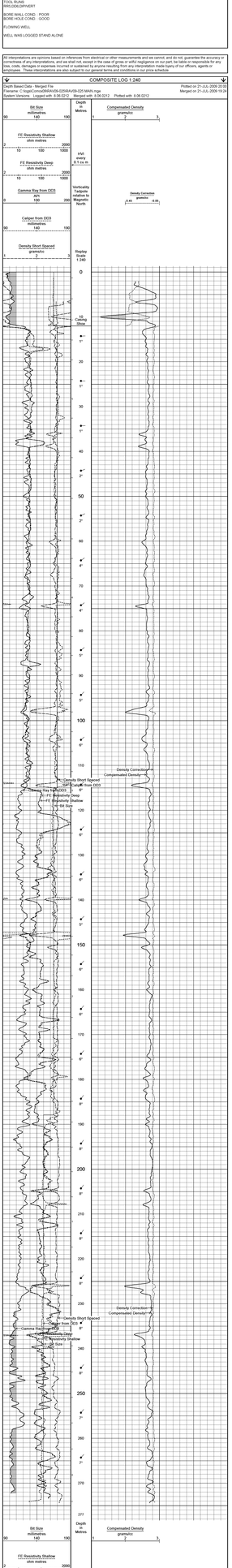
FLOWING WELL

WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made (parts of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

COMPOSITE LOG 1:240

Depth Based Data - Merged File — Plotted on 21-JUL-2009 20:05
Filename: C:\logic\Comco\RAV09-025\RAV09-025 MAIN.mge — Merged on 21-JUL-2009 19:24
System Versions: Logged with 8.06.0212 — Merged with 8.06.0212 — Plotted with 8.06.0212



COMPOSITE LOG 1:240

Depth Based Data - Merged File — Plotted on 21-JUL-2009 20:05
Filename: C:\logic\Comco\RAV09-025\RAV09-025 MAIN.mge — Merged on 21-JUL-2009 19:24
System Versions: Logged with 8.06.0212 — Merged with 8.06.0212 — Plotted with 8.06.0212

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-025
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	274.60 metres
Elevation Drill Floor	metres	Depth Driller	275.52 metres
Elevation Ground Level	metres	Depth Logger	274.60 metres

Weatherford

COMPOSITE COAL LOG

Company	Petroleum Development Oman LLC	Well	Nimr-1
Field	Nimr	Block	6
Country	Sultanate of Oman	Date	2-Jan-2011

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DIPMETER ANALYSIS

COMPANY CONFLIANCE COAL CORP
WELL TRAPPER 1
FIELD WILDCAT
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Weatherford

Total Sampling	2175.00 metres	Total Reading	2175.00 metres
Sampling Interval	0.50 metres	Reading Interval	0.50 metres
Depth Unit	metres	Depth Logged	2175.00 metres

Start Depth	17.00 Metres		
Stop Depth	2175.00 Metres		
Total Sampling Interval	2158		
Total Reading Interval	2158		
Reading Type	Dip Angle		
Sample Type	Raw Data		
Depth Unit	Metres		
Dip Unit	Degrees		
Azimuth Unit	Degrees		
Azimuth Reference	Magnetic North		
Dip Resolution	0.1		
Azimuth Resolution	1		
Dip Precision	0.1		
Azimuth Precision	1		
Hole Diameter	152.4		
Hole Azimuth	0		
Hole Deviation	0		
Pad Azimuth	N/A		
Pad Deviation	N/A		
Pad Offset	N/A		
Tool Type	3PI1		
Tool Serial Number	4		
Pad Azimuth Reference	Hole Azimuth		
Pad Azimuth Offset	0		
Tool Azimuth Offset	0		
Tool Azimuth Reference	Hole Azimuth		
Tool Azimuth Offset Reference	Hole Azimuth		
Tool Azimuth Offset Type	Fixed		
Tool Azimuth Offset Value	0		
Tool Azimuth Offset Source	Fixed		
Tool Azimuth Offset Source Value	0		
Tool Azimuth Offset Source Reference	Hole Azimuth		
Tool Azimuth Offset Source Type

Verticality Analysis Interpretation Notes

21-JUL-2009 19:28

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000mm for Verticality and 1:40000mm for Cross Section.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated using the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three axis magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N B: The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logs\Cemval99\RAV09-0295DR\ 429-267-M.dta

All Co-ordinates With Respect To True North, all depths in metres

Date Processed: 21-JUL-2009

First Depth: 8.80, At Depth: 53.00 East of Origin

Date Logged: 21-JUL-2009

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR	
Log	True	Tilt	Azi	North	East	Brg	Radius
10.00	10.00	1.0	323.7	-0.01	0.00	175	0.01
12.00	12.00	1.2	131.0	-0.00	-0.00	244	0.00
14.00	14.00	1.0	108.4	-0.01	0.02	102	0.03
16.00	16.00	0.9	99.1	-0.02	0.06	106	0.06
18.00	18.00	0.9	102.1	-0.03	0.09	108	0.09
20.00	20.00	1.2	119.9	-0.04	0.13	107	0.14
22.00	22.00	1.3	110.5	-0.05	0.17	107	0.18
24.00	24.00	1.4	102.9	-0.06	0.22	107	0.23
26.00	26.00	1.2	102.0	-0.07	0.26	105	0.27
28.00	28.00	1.2	115.2	-0.08	0.31	105	0.32
30.00	30.00	1.2	117.0	-0.09	0.35	104	0.36
32.00	32.00	1.3	118.7	-0.10	0.39	104	0.40
34.00	33.99	1.5	99.6	-0.10	0.46	103	0.47
36.00	35.99	1.3	96.4	-0.11	0.51	102	0.52
38.00	37.99	1.7	91.5	-0.11	0.57	101	0.58
40.00	39.99	1.7	91.9	-0.11	0.63	100	0.64
42.00	41.99	2.0	103.1	-0.11	0.69	99	0.70
44.00	43.99	2.1	90.0	-0.10	0.75	98	0.76
46.00	45.99	2.2	80.9	-0.09	0.82	96	0.83
48.00	47.99	2.2	80.9	-0.08	0.89	95	0.90
50.00	49.99	2.5	78.3	-0.05	0.97	93	0.97
52.00	51.99	3.1	75.4	-0.03	1.06	91	1.06
54.00	53.98	3.1	74.6	0.01	1.15	90	1.15
56.00	55.98	3.3	80.4	0.05	1.25	88	1.25
58.00	57.97	3.4	79.3	0.09	1.36	86	1.36
60.00	59.97	3.7	73.0	0.15	1.47	85	1.47
62.00	61.97	3.7	76.0	0.19	1.59	83	1.60
64.00	63.96	3.8	71.5	0.24	1.71	82	1.73
66.00	65.96	4.4	74.3	0.30	1.84	81	1.86
68.00	67.95	4.4	69.6	0.37	1.97	79	2.00
70.00	69.94	4.6	67.8	0.45	2.11	78	2.14
72.00	71.94	4.9	68.2	0.52	2.24	77	2.30
74.00	73.93	4.7	67.2	0.59	2.38	76	2.45
76.00	75.93	5.2	67.4	0.67	2.53	75	2.61
78.00	77.92	5.0	68.7	0.76	2.68	74	2.78
80.00	79.91	5.2	74.1	0.85	2.83	73	2.96
82.00	81.90	5.0	72.0	0.94	2.99	72	3.13
84.00	83.90	5.3	69.9	1.03	3.15	71	3.31
86.00	85.90	5.0	67.7	1.13	3.30	71	3.49
88.00	87.88	5.4	69.9	1.22	3.46	71	3.67
90.00	89.87	5.5	67.0	1.32	3.62	70	3.85
92.00	91.86	5.4	67.4	1.42	3.78	69	4.04
94.00	93.85	6.0	70.0	1.52	3.95	69	4.23
96.00	95.84	5.7	66.8	1.63	4.12	68	4.43
98.00	97.83	6.0	66.9	1.74	4.29	67	4.62
100.00	99.82	5.8	66.9	1.85	4.45	67	4.82
102.00	101.81	5.7	65.3	1.96	4.61	67	5.01
104.00	103.80	6.1	66.1	2.07	4.78	67	5.21
106.00	105.79	6.0	66.1	2.18	4.95	66	5.41
108.00	107.78	6.1	63.2	2.30	5.12	66	5.61
110.00	109.77	6.3	64.6	2.42	5.30	65	5.82
112.00	111.76	6.3	63.8	2.54	5.48	65	6.02
114.00	113.75	6.3	62.3	2.67	5.66	65	6.25
116.00	115.73	6.6	63.2	2.80	5.84	64	6.48
118.00	117.72	6.3	61.1	2.93	6.02	64	6.70
120.00	119.70	6.6	61.8	3.07	6.20	64	6.93
122.00	121.69	6.5	60.4	3.21	6.37	63	7.14
124.00	123.68	6.5	61.0	3.34	6.55	63	7.35
126.00	125.67	6.5	61.0	3.48	6.73	63	7.57
128.00	127.65	6.3	60.3	3.60	6.90	62	7.78
130.00	129.64	6.3	61.1	3.74	7.07	62	8.00
132.00	131.63	6.3	63.8	3.87	7.24	62	8.21
134.00	133.62	6.6	64.0	4.00	7.42	62	8.43
136.00	135.61	6.6	62.7	4.13	7.60	62	8.65
138.00	137.59	6.3	63.2	4.26	7.78	61	8.86
140.00	139.58	6.2	63.0	4.38	7.95	61	9.08
142.00	141.57	6.2	61.6	4.52	8.12	61	9.29
144.00	143.56	5.9	62.9	4.65	8.29	61	9.50
146.00	145.55	6.0	61.6	4.78	8.45	61	9.71
148.00	147.54	5.9	60.8	4.91	8.62	60	9.92
150.00	149.53	5.7	60.8	5.04	8.78	60	10.13
152.00	151.51	5.3	58.5	5.17	8.94	60	10.33
154.00	153.50	5.3	60.2	5.31	9.11	60	10.55
156.00	155.49	5.4	59.9	5.45	9.28	60	10.76
158.00	157.48	5.4	58.9	5.59	9.45	59	10.97
160.00	159.47	5.4	58.5	5.73	9.62	59	11.20
162.00	161.45	5.6	57.8	5.88	9.79	59	11.42
164.00	163.44	5.6	57.5	6.03	9.97	59	11.65
166.00	165.43	5.6	57.5	6.17	10.12	59	11.86
168.00	167.42	5.4	58.9	6.31	10.28	58	12.06
170.00	169.41	5.3	57.0	6.45	10.45	58	12.28
172.00	171.39	5.4	59.9	6.59	10.61	58	12.49
174.00	173.38	5.3	57.9	6.73	10.77	58	12.69
176.00	175.37	5.5	59.3	6.88	10.94	58	12.92
178.00	177.36	5.4	57.8	7.02	11.11	58	13.14
180.00	179.34	5.5	55.7	7.17	11.28	58	13.37
182.00	181.33	6.7	59.2	7.32	11.46	57	13.60
184.00	183.31	7.7	53.2	7.49	11.64	57	13.84
186.00	185.29	8.2	53.4	7.69	11.84	57	14.12
188.00	187.27	8.5	53.8	7.89	12.04	57	14.39
190.00	189.25	8.1	53.9	8.08	12.24	57	14.67
192.00	191.23	8.4	53.7	8.28	12.44	57	14.95
194.00	193.22	8.1	53.8	8.47	12.63	56	15.20
196.00	195.20	7.4	54.3	8.66	12.83	56	15.48
198.00	197.18	7.5	54.7	8.85	13.02	56	15.75
200.00	199.16	7.6	54.8	9.04	13.21	56	16.01
202.00	201.14	7.6	54.8	9.23	13.41	56	16.28
204.00	203.13	7.1	54.3	9.42	13.60	55	16.54
206.00	205.10	8.4	54.4	9.61	13.81	55	16.83
208.00	207.08	8.3	56.6	9.81	14.02	55	17.11
210.00	209.06	8.4	55.0	10.01	14.22	55	17.39
212.00	211.04	8.3	57.0	10.20	14.43	55	17.67
214.00	213.02	8.4	56.1	10.40	14.64	55	17.96
216.00	215.00	8.4	56.1	10.60	14.85	55	18.25
218.00	216.98	8.3	57.5	10.79	15.06	54	18.52
220.00	218.96	8.4	57.2	10.98	15.27	54	18.81
222.00	220.94	8.1	57.5	11.16	15.48	54	19.09
224.00	222.91	8.7	57.4	11.35	15.71	54	19.38
226.00	224.89	8.6	56.7	11.55	15.92	54	19.67
228.00	226.87	8.2	57.6	11.74	16.13	54	19.95
230.00	228.85	8.3	57.6	11.94	16.34	54	20.24
232.00	230.83	8.3	57.2	12.13	16.56	54	20.53
234.00	232.81	9.1	57.5	12.33	16.78	54	20.82
236.00	234.79	8.5	56.2	12.53	17.00	54	21.12
238.00	236.76	8.4	56.8	12.72	17.21	54	21.40
240.00	238.74	8.5	56.2	12.92	17.42	54	21.69
242.00	240.72	8.5	55.6	13.12	17.64	53	21.98
244.00	242.69	8.6	55.1	13.32	17.86	53	22.27
246.00	244.66	8.6	54.7	13.51	18.08	53	22.55
248.00	246.66	8.3	57.0	13.71	18.27	53	22.84
250.00	248.64	8.4	55.9	13.91	18.46	53	23.13
252.00	250.62	8.6	55.7	14.09	18.69	53	23.40
254.00	252.59	8.7	55.7	14.28	18.89	53	23.68
256.00	254.56	7.5	54.6	14.47	19.08	53	23.95
258.00	256.54	7.5	54.8	14.66	19.28	53	24.22
260.00	258.55	7.2	58.5	14.81	19.47	53	24.46
262.00	260.53	7.2	58.6	14.98	19.66	53	24.72
264.00	262.53	7.0	56.5	15.14	19.84	53	24.97
266.00	264.50	7.6	56.5	15.30	20.05	53	25.23
268.00	266.48	7.9	55.8	15.45	20.25	53	25.48
270.00	268.46	7.9	55.8	15.60	20.45	53	25.73
272.00	270.44	7.2	53.4	15.93	20.64	53	26.07

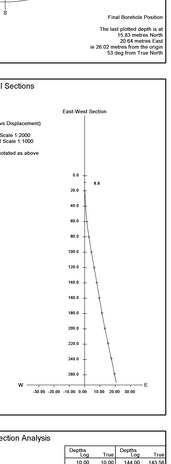
Cross Section

All Figures are Log Depths in metres

Plot With Respect to True North

Target Origin Depth 8.80
Last Plotted Depth 275.00
Depth Markers annotated in multiples of 20
First Depth Marker at 20
Last Depth Marker at 260

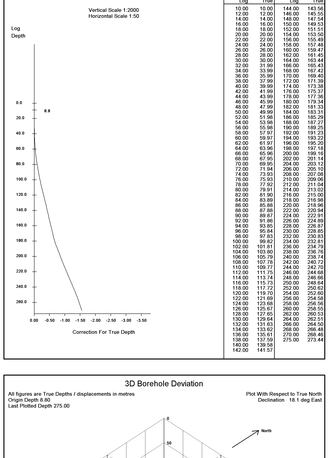
Scale 1:500
Declination 18.1 deg East



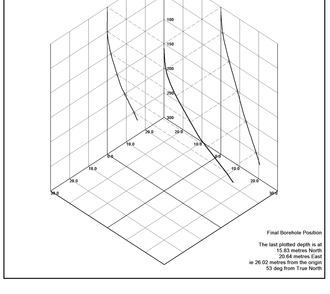
Final Borehole Position

The last plotted depth is at
15.83 metres North
20.64 metres East
ie 26.02 metres from the origin
53 deg from True North

Vertical Sections



Depth Correction Analysis



Depths Log	Depths True	Depths Log	Depths True
10.00	10.00	146.00	145.55
12.00	12.00	148.00	147.54
14.00	14.00	150.00	149.53
16.00	16.00	152.00	151.51
18.00	18.00	154.00	153.50
20.00	20.00	156.00	155.49
22.00	22.00	158.00	157.48
24.00	24.00	160.00	159.47
26.00	26.00	162.00	161.45
28.00	28.00	164.00	163.44
30.00	30.00	166.00	165.43
32.00	32.00	168.00	167.42
34.00	33.99	170.00	169.41
36.00	35.99	172.00	171.39
38.00	37.99	174.00	173.38
40.00	39.99	176.00	175.37
42.00	41.99	178.00	177.36
44.00	43.99	180.00	179.34
46.00	45.99	182.00	181.33
48.00	47.99	184.00	183.31
50.00	49.99	186.00	185.29
52.00	51.99	188.00	187.27
54.00	53.98	190.00	189.25
56.00	55.98	192.00	191.23
58.00	57.97	194.00	193.22
60.00	59.97	196.00	195.20
62.00	61.97	198.00	197.18
64.00	63.96	200.00	199.16
66.00	65.96	202.00	201.14
68.00	67.95	204.00	203.13
70.00	69.94	206.00	205.10
72.00	71.94	208.00	207.08
74.00	73.93	210.00	209.06
76.00	75.93	212.00	211.04
78.00	77.92	214.00	213.02
80.00	79.91	216.00	215.00
82.00	81.90	218.00	216.98
84.00	83.89	220.00	218.96
86.00	85.88	222.00	220.94
88.00	87.88	224.00	222.91
90.00	89.87	226.00	224.89
92.00	91.86	228.00	226.87
94.00	93.85	230.00	228.85
96.00	95.84	232.00	230.83
98.00	97.83	234.00	232.81
100.00	99.82	236.00	234.79
102.00	101.81	238.00	236.76
104.00	103.80	240.00	238.74
106.00	105.79	242.00	240.72
108.00	107.78	244.00	242.70
110.00	109.77	246.00	244.66
112.00	111.76	248.00	246.66
114.00	113.74	250.00	248.64
116.00	115.73	252.00	250.62
118.00	117.72	254.00	252.59
120.00	119.70	256.00	254.56
122.00	121.69	258.00	256.54
124.00	123.68	260.00	258.55
126.00	125.67	262.00	260.53
128.00	127.65	264.00	262.53
130.00	129.64	266.00	264.50
132.00	131.63	268.00	266.48
134.00	133.62	270.00	268.46
136.00	135.61	272.00	270.44
138.00	137.59	275.00	273.44
140.00	139.58		
142.00	141.57		

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth 8.80
Last Plotted Depth 275.00

Plot With Respect to True North
Declination 18.1 deg East

Final Borehole Position

The last plotted depth is at
15.83 metres North
20.64 metres East
ie 26.02 metres from the origin
53 deg from True North

DUAL INDUCTION ELECTRIC COMPANY: COMPLIANCE COAL CORP. COUNTRY: CANADA PROVINCE: BRITISH COLUMBIA FIELD: UNDEFINED WELL: RAVEN-025

Log Date:	Jan-Feb-2008
Run Number:	1
Depth Driller:	1,000.00
Depth Logger:	1,000.00
Bottom Log Interval:	1,000.00
Top Log Interval:	100.00
Casing Driller Size:	244.50
Casing Logger Size:	244.50
Bit Size:	216.00
Type Fluid in Hole:	Water
Density:	1.00
Viscosity:	0.00
Fluid Loss:	0.00
Source of Sample:	Flowline
Rm @ Meas. Temp.:	0.00 @ 0.00
Rmf @ Meas. Temp.:	0.00 @ 0.00
Rmc @ Meas. Temp.:	0.00 @ 0.00
Rm @ BHT:	0.00 @ 0.00
Max Rec. Temp.:	0.00
Equipment:	5-7
Location:	Kamloops
Recorded By:	Gamba, Ray
Witnessed By:	Mr. Bill Ward

BOREHOLE RECORD			
Bit Size	Depth From	Depth To	
216.00	0.00	1,000.00	
Casing	Depth From	Depth To	Weight
244.50	0.00	100.00	0.00
216.00	100.00	1,000.00	0.00

CASING RECORD			
Type	Size	Depth From	Weight
Casing	244.50	0.00	0.00
Casing	216.00	100.00	0.00

REMARKS

CLIENTCOMPANY
WELL
FIELD

COMPANY
WELL
FIELD
PROVINCE/COUNTY
COUNTRY/STATE
Latitude/Longitude
Elevation
Date
Run Number
Depth Driller
Depth Logger
Bottom Log Interval
Top Log Interval
Casing Driller Size
Casing Logger Size
Bit Size
Type Fluid in Hole
Density
Viscosity
Fluid Loss
Source of Sample
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Rm @ BHT
Max Rec. Temp.
Equipment
Location
Recorded By
Witnessed By

COMPANY
WELL
FIELD
PROVINCE/COUNTY
COUNTRY/STATE
Latitude/Longitude
Elevation
Date
Run Number
Depth Driller
Depth Logger
Bottom Log Interval
Top Log Interval
Casing Driller Size
Casing Logger Size
Bit Size
Type Fluid in Hole
Density
Viscosity
Fluid Loss
Source of Sample
Rm @ Meas. Temp.
Rmf @ Meas. Temp.
Rmc @ Meas. Temp.
Rm @ BHT
Max Rec. Temp.
Equipment
Location
Recorded By
Witnessed By

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy, correctness, completeness, timeliness, or suitability of any of our interpretations or other services, or any of our agents or employees, for any purpose, regardless of any negligence by us, and we disclaim all liability for any loss, damages or expenses incurred in connection therewith. Our entire liability and your exclusive remedy against us for any loss or damage to property or injury to persons caused by our negligence in performance of our services shall be limited to the amount paid by you for the services in question. Our liability for negligence in performance of our services shall be limited to the amount we would pay to our employee who performs the services in question, but not to exceed $5,000.00 per incident

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-025
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
LSD / SEC / TWP / RGE	
Licence Number	
Other Services	
Run Number	1
Depth Driller	274.60 metres
Depth Logger	274.60 metres
First Reading	274.60 metres
Last Reading	0.00 metres
Casing Driller	12.50 metres
Casing Logger	12.00 metres
Bit Size	
Hole Fluid Type	WATER
Density / Viscosity	
Primary Source	
Sample Source	
Rm @ Measured Temp	
Rmf @ Measured Temp	
Rmc @ Measured Temp	
Source of Rm / Rmf / Rmc	
Rm @ BHT / Rmf @ BHT	
Time Since Circulation	
Max Recorded Temp	
Equipment / Base	
Recorded By	C.LEONARD
Witnessed By	O.CULLINGHAM
Equipment / Base	11536
	RJR

Elevations: KB, DF, GL — metres

Permanent Datum: Ground Level — Elevation 0.0 metres

Log Measured From: Ground Level above Permanent Datum

Drilling Measured From: KB

Date: 21-JUL-2009

DIAMETER

VERTICALITY

BOREHOLE RECORD

Last Edited: 21-JUL-2009 13:21

Bit Size millimetres	Depth From metres	Depth To metres
165.000	0.00	12.00
170.000	12.00	115.00
165.000	115.00	188.00
150.000	188.00	274.60

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	165.000	0.00	12.00	25.30

REMARKS

COORDINATES:
EASTING:
365590

NORTHING:
5484080

TOOL RUNS:
RR5,DD6,DIP/VERT

BORE WALL COND. : POOR
BORE HOLE COND. : GOOD

FLOWING WELL

WELL WAS LOGGED STAND ALONE

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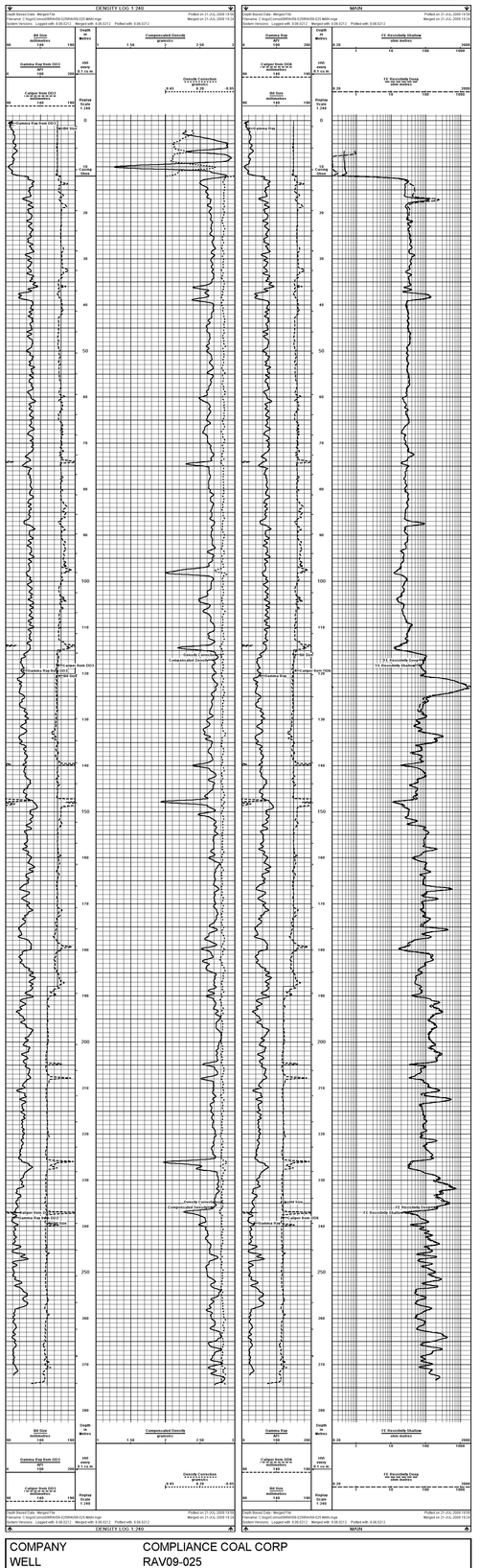

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-025		
FIELD	UNDEFINED		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	274.60 metres
Elevation Drill Floor	metres	Depth Driller	275.52 metres
Elevation Ground Level	metres	Depth Logger	274.60 metres

Weatherford®

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-025
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Ground Level	metres

First Reading	274.60	metres
Depth Order	275.52	metres
Depth Logged	274.60	metres

Weatherford VERTICALITY ANALYSIS

VERTICALITY ANALYSIS

COMPANY COMPLIANCE COAL CORP
WELL RAV09-025
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Calculation Method: Minimum Curvature
Vertical Section Direction: 0.000 Degrees
Vertical Section Plane: Vertical Section Plane Through Surface Location
Vertical Section Origin: Surface Location
Depth Reference: Kelly Bushing
Elevation Reference: Ground Level
Elevation Offset: 0.000 metres
Depth Offset: 0.000 metres
Depth Units: Metres
Distance Units: Metres
Angle Units: Degrees
Azimuth Reference: Grid
Azimuth Correction: Grid Convergence Correction Applied
Grid Convergence Correction: 0.000 Degrees
Grid Convergence Correction Date: 01-JUL-2009
Grid Convergence Correction Source: Not Applicable
Grid Convergence Correction Comment: Not Applicable
Grid Convergence Correction Calculation Method: Not Applicable
Grid Convergence Correction Calculation Date: 01-JUL-2009
Grid Convergence Correction Calculation Comment: Not Applicable
Grid Convergence Correction Calculation Source

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-026
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

LSD	SEC	TWP	RGE
12-22-001-03W6M			

Other Services

Licence Number

Permanent Datum GL, Elevation 1A metres

Log Measured from GROUND LEVEL above Permanent Datum

Date	18-JUL-2009	
Run Number	1	
Depth Driller	92.20	metres
Depth Logger	92.20	metres
Bottom Logged Interval	0.00	metres
First Reading	92.20	metres
Last Reading	0.00	metres
Casing Driller	12.60	metres
Casing Logger	12.60	metres
Bit Size	104.000	millimetres
Type Fluid in Hole	WATER	
Salinity, Density		
PH / Fluid Loss		
Source of Sample		
Rm @ Measured Temp		
Rmf @ Measured Temp		
Rmc @ Measured Temp		
Source Rmf / Rmc		
Rm @ BHCT		
Time Since Circulation		
Max Recorded Temp		
Equipment Name		
Equipment Number		
Recorded By	C. LEONARD	
Witnessed By	O. CULLINGHAM	

Elevations: KB, DF, GL — metres

BOREHOLE RECORD

Last Edited: 18-JUL-2009 12:49

Bit Size (millimetres)	Depth From (metres)	Depth To (metres)
110.000	0.00	12.60
106.000	12.60	70.00
104.000	70.00	92.20

CASING RECORD

Type	Size (millimetres)	Depth From (metres)	Shoe Depth (metres)	Weight (Kg/metre)
	110.000	0.00	12.60	14.14

REMARKS

COORDINATES:
NORTHING:
5487100

EASTING:
362590

TOOL RUNS:
RR5,DD6,VERT

BORE WALL COND. : GOOD
BORE HOLE COND. : GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

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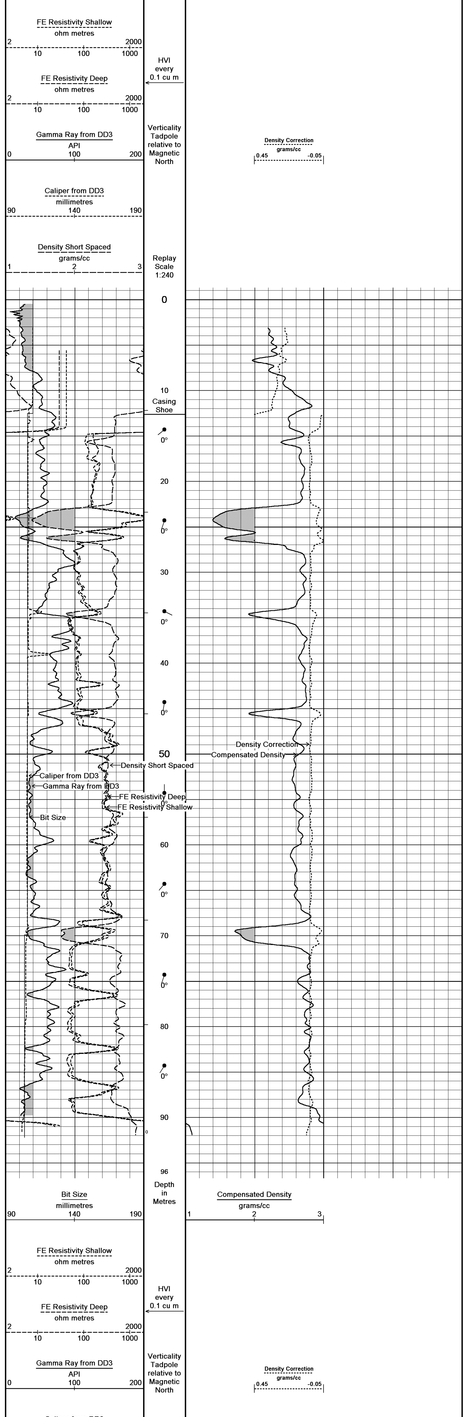
COMPOSITE LOG 1:240

Depth Based Data - Merged File — Plotted on 18-JUL-2009 13:42
Filename: C:\logs\Comox09\RAV09-026\RAV09-026 MAIN.mge — Merged on 18-JUL-2009 12:41
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212



Depth Based Data - Merged File — Plotted on 18-JUL-2009 13:42
Filename: C:\logs\Comox09\RAV09-026\RAV09-026 MAIN.mge — Merged on 18-JUL-2009 12:41
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP			
WELL	RAV09-026			
FIELD	UNDEFINED			
PROVINCE/COUNTY	BRITISH COLUMBIA			
COUNTRY/STATE	CANADA			
Elevation Kelly Bushing	metres	First Reading	92.20	metres
Elevation Drill Floor	metres	Depth Driller	92.70	metres
Elevation Ground Level	metres	Depth Logger	92.20	metres

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COMPOSITE COAL LOG

WELL LOCATION AND ELEVATIONS

Well Name	Surface Location	Elevation
100/06-29-083-17W6	100/06-29-083-17W6	1,000.00

Elevation Type	Datum	Elevation
Ground Elevation	Mean Sea Level	1,000.00
Kelly Bushing	Mean Sea Level	1,008.00
Kelly Bushing	Ground Level	8.00

Log	Depth Datum	Depth Datum Elevation	Log Depth	Log Elevation
Total Depth	Kelly Bushing	1,008.00	1,000.00	8.00

REMARKS

Contractor:
Rig Name:
Rig Type:
Spud Date:
Total Depth: 1000.00
Rig Release Date: 12/2/83
Drilling Fluid Type:
Surface Coordinates: 100/06-29-083-17W6

Bottom Hole Coordinates: 100/06-29-083-17W6

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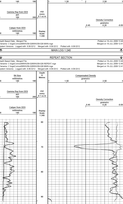
WELL LOG

Company: Texaco Inc.
Well: 100/06-29-083-17W6 Surface Location: 100/06-29-083-17W6
Field: Wildcat Province: British Columbia Country: Canada
Date: Run 1 - 12/02/1983 Run 2 - 12/02/1983 Run 3 - 12/02/1983 Run 4 - 12/02/1983
Depth Reference: Kelly Bushing 1,008.00 m Elevation: Ground Level 1,000.00 m

Depth Scale: 1:240 Depth Range: 0.00 m - 1,000.00 m Depth Reference: Kelly Bushing 1,008.00 m

Run 1 - 12/02/1983 Run 2 - 12/02/1983 Run 3 - 12/02/1983 Run 4 - 12/02/1983


Bit Size
Casing Size
Hole Diameter
Caliper
Gamma Ray (API)
Compensated Density
Compensated Neutron
Density Porosity
Neutron Porosity
Density Correction
Neutron Correction
Total Porosity
Lithology
Gamma Ray (API)
Density Bulk Density
Density Correction
Neutron Porosity
Density Porosity

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-026
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Ground Level	metres

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

BOREHOLE RECORD

Last Edited: 18-JUL-2009 12:46

Bit Size millimetres	Depth From metres	Depth To metres
110.000	0.00	12.60
108.000	12.60	52.00
106.000	52.00	82.20

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	110.000	0.00	12.60	14.14

REMARKS

COORDINATES
NORTHING
5497100

EASTING
802990

TOOL RUNS:
RR5,DDS,VERT

SONIC WALL CONDI - GOOD
SONIC HOLE CONDI - GOOD

NON FLOWING WELL

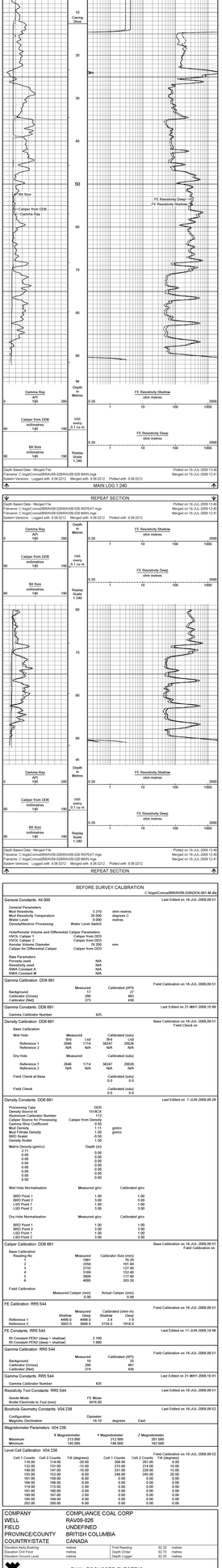
WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we are not responsible for any losses or damages arising from our interpretations or our part, but failure to responsible for any negligence in our conduct of the business of our employees, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

MAIN LOG 1:240

Depth Based Data - Merged File
Filename: C:\logs\Comcoal\RAV09-026\RAV09-026 MAIN.mge
System Version: Logged with 8.06.02/2 Merged with 8.06.02/2 Plotted with: 8.06.02/2

Plotted on 18-JUL-2009 13:49
Merged on 18-JUL-2009 12:41



REPEAT SECTION

Depth Based Data - Merged File
Filename: C:\logs\Comcoal\RAV09-026\RAV09-026 REPEAT.mge
System Version: Logged with 8.06.02/2 Merged with 8.06.02/2 Plotted with: 8.06.02/2

Plotted on 18-JUL-2009 13:49
Merged on 18-JUL-2009 12:41

BEFORE SURVEY CALIBRATION

C:\logs\Comcoal\RAV09-026\CEN-001 M.dfa

Last Edited on: 18-JUL-2009 08:51

General Constants All 000

General Parameters		
Mud Resistivity	3.210	ohm-metres
Mud Resistivity Temperature	20.000	degrees C
Water Level	0.000	metres
Density/Reaction Processing	Water Level Correction	

Hole/Annular Volume and Differential Caliper Parameters

Hole Diameter	108.000	mm
HVOL Caliper 2	Caliper from DD3	
Annular Volume Diameter	76.200	mm
Caliper for Differential Caliper	Caliper from DD3	

Bias Parameters

Porosity used	N/A
Resistivity used	N/A
Bias Formula A	N/A
Bias Constant M	N/A

Gamma Calibration: DD6 691

Field Calibration on 18-JUL-2009,09:51

	Measured	Calibrated (API)
Background	27	27
Calibrator (Gross)	290	463
Calibrator (Net)	273	436

Gamma Constants: DD6 691

Last Edited on: 21-MAY-2009,10:49

Gamma Calibrator Number 425

Density Calibration: DD6 691

Base Calibration on 18-JUL-2009,09:51
Field Check on

Base Calibration

Well Hole	Measured	Calibrated (kg/m3)
Reference 1	2646 1714	2646 1714
Reference 2	N/A N/A	N/A N/A
Dry Hole	Measured	Calibrated (kg/m3)
Reference 1	2646 1714	2646 1714
Reference 2	N/A N/A	N/A N/A

Field Check at Base

	Calibrated (kg/m3)	
	0.0	0.0
	Calibrated (kg/m3)	
	0.0	0.0

Density Constants: DD6 691

Last Edited on: 7-JUN-2009,09:29

Processing Type	DDS
Density Source #1	1314CB
Aluminum Calibrator Number	112
Calibrator Source for Processing	Caliper from Density
Gamma Strip Coefficient	0.10
Density Offset	0.00
Mud Filtrate Density	1.00
BRD Scaler	-0.50
Density Scaler	1.00

Matrix Density (g/m3)

1.00	0.00
2.00	0.00
3.00	0.00
4.00	0.00
5.00	0.00
6.00	0.00
7.00	0.00
8.00	0.00
9.00	0.00

Wet Hole Normalisation

	Measured g/cc	Calibrated g/cc
BRD Point 1	1.00	1.00
BRD Point 2	3.00	3.00
LSD Point 1	1.00	1.00
LSD Point 2	3.00	3.00

Dry Hole Normalisation

	Measured g/cc	Calibrated g/cc
BRD Point 1	1.00	1.00
BRD Point 2	3.00	3.00
LSD Point 1	1.00	1.00
LSD Point 2	3.00	3.00

Caliper Calibration: DD6 691

Base Calibration on 18-JUL-2009,09:51
Field Calibration on

Base Calibration

Reading No	Measured	Calibrator Size (mm)
1	1981	76.20
2	2488	108.00
3	2722	127.00
4	3169	152.40
5	3609	177.80
6	4095	203.20

Field Calibration

	Measured Caliper (mm)	Actual Caliper (mm)
	0.00	0.00

FE Calibration: RR5 544

Field Calibration on 18-JUL-2009,09:51

	Shallow	Deep
Reference 1	4450.0	4896.0
Reference 2	3602.0	3958.0

FE Constants: RR5 544

Last Edited on 17-JUN-2009,18:48

Hi Constant PEN1 (deep + shallow)	2.100
Hi Constant PEN2 (deep + shallow)	0.500

Gamma Calibration: RR5 544

Field Calibration on 18-JUL-2009,09:51

	Measured	Calibrated (API)
Background	18	18
Calibrator (Gross)	290	463
Calibrator (Net)	274	436

Gamma Constants: RR5 544

Last Edited on 21-MAY-2009,10:41

Gamma Calibrator Number 425

Resistivity Tool Constants: RR5 544

Last Edited on 18-JUL-2009,09:51

Sonde Mode	FE Mode
Sonde Distance to Tool (mm)	3076.00

Borehole Geometry Constants: V04 238

Last Edited on 18-JUL-2009,09:52

	Diameter		
Configuration	18.10	degrees	East

Magnetometer Parameters: V04 238

	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	145.000	212.000	201.000
Minimum		146.000	162.000

Field Calibration on 19-JUL-2009,09:52

Level Calibration: V04 238

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
114.00	114.00	-30.00	309.00	307.00	9.00
132.00	131.00	-15.00	215.00	214.00	10.00
148.00	147.00	-10.00	231.00	230.00	15.00
155.00	152.00	-8.00	248.00	245.00	20.00
165.00	162.00	-6.00	264.00	261.00	25.00
166.00	166.00	-4.00	0.00	0.00	30.00
174.00	172.00	-2.00	0.00	0.00	0.00
184.00	182.00	0.00	0.00	0.00	0.00
188.00	187.00	2.00	0.00	0.00	0.00
195.00	194.00	4.00	0.00	0.00	0.00
202.00	200.00	6.00	0.00	0.00	0.00

Total Recording	metres	First Reading	92.20 metres
Total Logged	metres	Depth Drilled	92.20 metres
Elevation Ground Level	metres	Depth Logged	92.20 metres

DUAL FOCUSSED ELECTRIC
GAMMA RAY, CALIPER

Weatherford

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-026
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
LOCATION	
LSD / SEC / TWP / RGE	Other Services
Licence Number	VERTICALITY
Permanent Datum GL, Elevation NA metres	Elevations: metres
Log Measured From GROUND LEVEL above Permanent Datum	KB
Drilling Measured From	DF
	GL

Date	18-JUL-2009					
Run Number	1					
Depth Driller	92.70	metres				
Depth Logger	92.20	metres				
First Reading	92.20	metres				
Last Reading	0.00	metres				
Casing Driller	12.20	metres				
Casing Logger	12.60	metres				
Bit Size						
Hole Fluid Type	WATER					
Density / Viscosity						
PH / Fluid Loss						
Sample Source						
Rm @ Measured Temp						
Rmf @ Measured Temp						
Rmc @ Measured Temp						
Source Rmf / Rmc						
Rm @ BHT						
Time Since Circulation						
Max Recorded Temp						
Equipment Name						
Equipment / Base	11536	RDR				
Recorded By	C. LEONARD					
Witnessed By	O.CULLINGHAM					

BOREHOLE RECORD

Last Edited: 18-JUL-2009 12:49

Bit Size millimetres	Depth From metres	Depth To metres
110.000	0.00	12.60
106.000	12.60	70.00
104.000	70.00	92.20

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	110.000	0.00	12.60	14.14

REMARKS

COORDINATES:
NORTHING:
5487100

EASTING:
362590

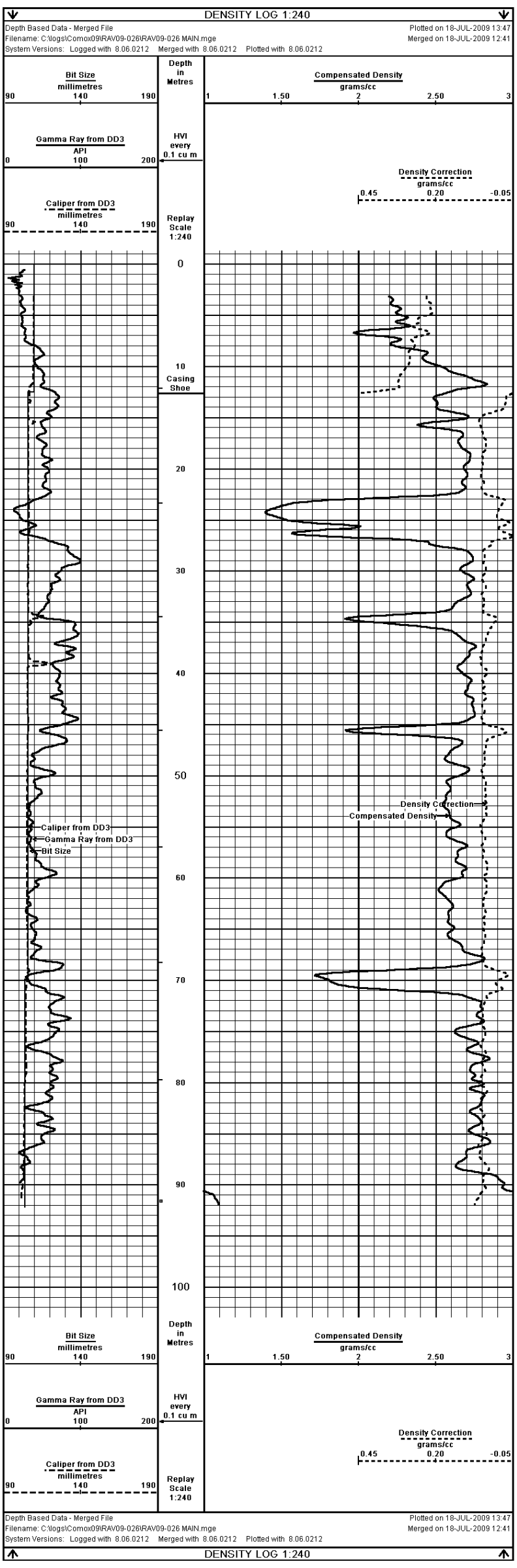
TOOL RUNS:
RR5,DD6,VERT

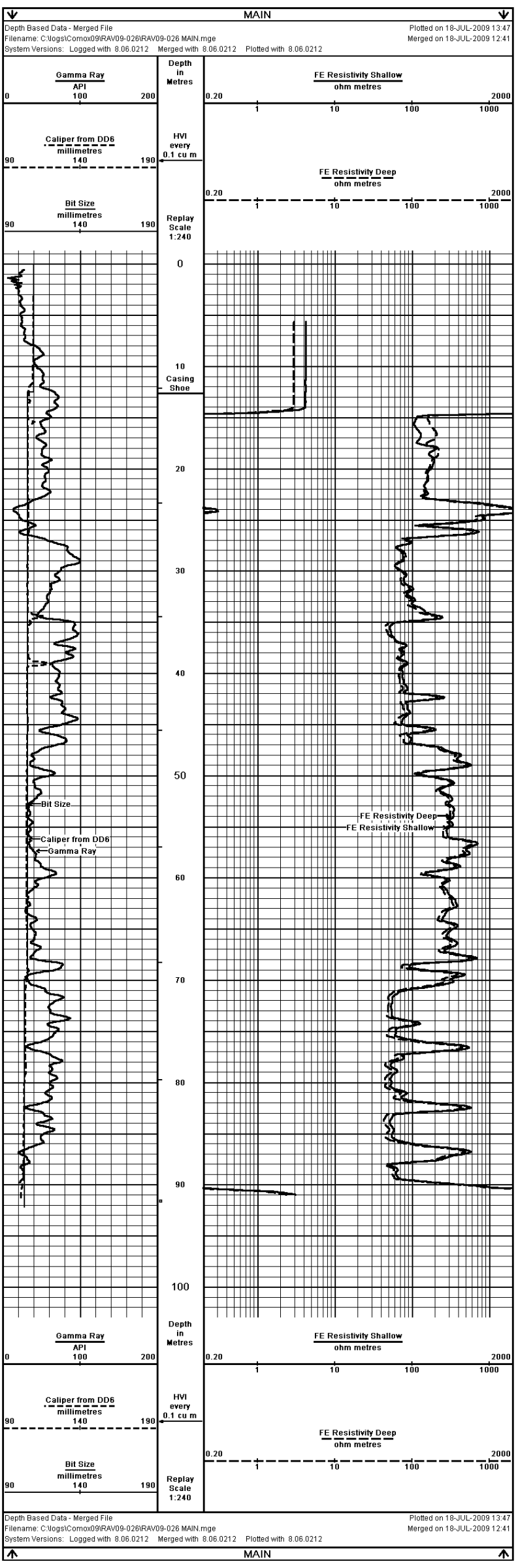
BORE WALL COND. : GOOD
BORE HOLE COND. : GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made byany of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.





COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-026
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres		First Reading	92.20	metres
Elevation Drill Floor	metres		Depth Driller	92.70	metres
Elevation Ground Level	metres		Depth Logger	92.20	metres

Weatherford®

MINI PLOT

Verticality Analysis Interpretation Notes

18-JUL-2009 13:07

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:48000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in intervals of 1, 2, 5, 10, 25, 50 or 100 metres depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logs\Comoa09RAV09-020\V04-238-M.dta

All Co-ordinates With Respect To True North, all depths in metres

First Depth 7.10, 0.00 North, 0.00 East of Origin

Date Processed: 18-JUL-2009

Date Logged: 18-JUL-2009

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR	
Log	True	Tilt	Azi	North	East	Brg	Radius
8.00	8.00	0.3	275.6	-0.00	-0.00	242	0.00
9.00	9.00	0.3	152.3	-0.00	-0.00	178	0.00
10.00	10.00	0.6	86.0	-0.00	0.00	132	0.00
11.00	11.00	0.3	60.9	-0.00	0.01	110	0.01
12.00	12.00	0.4	182.4	-0.00	0.01	114	0.01
13.00	13.00	0.4	263.4	-0.01	0.01	125	0.01
14.00	14.00	0.3	213.6	-0.01	0.01	149	0.01
15.00	15.00	0.4	249.0	-0.01	0.00	173	0.01
16.00	16.00	0.4	233.8	-0.01	-0.00	190	0.01
17.00	17.00	0.0	18.1	-0.02	-0.01	197	0.02
18.00	18.00	0.4	232.5	-0.02	-0.01	199	0.02
19.00	19.00	0.4	230.8	-0.02	-0.01	201	0.03
20.00	20.00	0.0	18.1	-0.03	-0.01	204	0.03
21.00	21.00	0.3	266.0	-0.03	-0.02	206	0.03
21.50	21.50	0.3	266.0	-0.03	-0.02	206	0.04
22.00	22.00	0.3	264.7	-0.04	-0.02	207	0.04
24.00	24.00	0.0	18.1	-0.04	-0.02	207	0.05
25.00	25.00	0.4	218.2	-0.04	-0.02	208	0.05
26.00	26.00	0.4	215.1	-0.05	-0.03	206	0.05
27.00	27.00	0.0	18.1	-0.05	-0.03	207	0.06
28.00	28.00	0.6	219.9	-0.06	-0.03	205	0.06
29.00	29.00	0.4	198.8	-0.06	-0.03	204	0.07
30.00	30.00	0.3	145.6	-0.07	-0.03	203	0.07
31.00	31.00	0.0	18.1	-0.07	-0.03	202	0.07
32.00	32.00	0.0	18.1	-0.07	-0.03	201	0.08
33.00	33.00	0.4	189.7	-0.08	-0.03	200	0.08
34.00	34.00	0.3	229.5	-0.08	-0.03	199	0.09
35.00	35.00	0.3	136.7	-0.09	-0.03	198	0.09
36.00	36.00	0.4	183.3	-0.09	-0.03	197	0.10
37.00	37.00	0.3	224.4	-0.10	-0.03	196	0.10
38.00	38.00	0.0	18.1	-0.10	-0.03	196	0.10
39.00	39.00	0.4	180.1	-0.10	-0.03	195	0.11
40.00	40.00	0.4	175.5	-0.11	-0.03	195	0.11
41.00	41.00	0.3	193.3	-0.11	-0.03	194	0.12
42.00	42.00	0.5	195.1	-0.12	-0.03	194	0.12
43.00	43.00	0.4	168.1	-0.12	-0.03	192	0.12
44.00	44.00	0.3	208.2	-0.13	-0.03	191	0.13
45.00	45.00	0.3	209.6	-0.13	-0.02	191	0.13
46.00	46.00	0.4	166.4	-0.13	-0.02	190	0.14
47.00	47.00	0.6	212.9	-0.14	-0.02	190	0.14
48.00	48.00	0.0	18.1	-0.14	-0.02	190	0.14
49.00	49.00	0.4	173.3	-0.15	-0.02	189	0.15
50.00	50.00	0.0	18.1	-0.15	-0.02	189	0.15
51.00	51.00	0.4	175.5	-0.15	-0.02	189	0.16
52.00	52.00	0.3	131.0	-0.16	-0.02	188	0.16
53.00	53.00	0.3	236.3	-0.16	-0.02	188	0.16
54.00	54.00	0.3	225.0	-0.17	-0.02	188	0.17
55.00	55.00	0.0	18.1	-0.17	-0.03	188	0.17
56.00	56.00	0.0	18.1	-0.17	-0.03	188	0.18
57.00	57.00	0.4	190.9	-0.18	-0.03	188	0.18
58.00	58.00	0.0	18.1	-0.18	-0.03	188	0.18
59.00	59.00	0.4	191.7	-0.19	-0.03	188	0.19
60.00	60.00	0.4	193.7	-0.19	-0.03	188	0.19
61.00	61.00	0.4	192.5	-0.20	-0.03	188	0.20
62.00	62.00	0.3	235.4	-0.20	-0.03	188	0.20
63.00	63.00	0.3	145.6	-0.20	-0.03	189	0.20
64.00	64.00	0.3	150.6	-0.20	-0.03	189	0.21
65.00	65.00	0.3	238.5	-0.21	-0.03	189	0.21
66.00	66.00	0.4	198.9	-0.21	-0.03	189	0.21
67.00	67.00	0.0	18.1	-0.22	-0.03	189	0.22
68.00	68.00	0.3	242.4	-0.22	-0.04	189	0.22
69.00	69.00	0.3	154.5	-0.22	-0.04	189	0.23
70.00	70.00	0.4	207.9	-0.23	-0.04	190	0.23
71.00	71.00	0.3	250.4	-0.23	-0.04	190	0.24
72.00	72.00	0.3	160.5	-0.24	-0.04	190	0.24
73.00	73.00	0.4	213.1	-0.24	-0.05	191	0.24
74.00	74.00	0.0	18.1	-0.24	-0.05	191	0.25
75.00	75.00	0.4	218.2	-0.25	-0.05	191	0.25
76.00	76.00	0.6	255.9	-0.25	-0.05	192	0.26
77.00	77.00	0.4	215.8	-0.26	-0.06	192	0.26
78.00	78.00	0.3	254.3	-0.26	-0.06	192	0.27
79.00	79.00	0.0	18.1	-0.26	-0.06	193	0.27
80.00	80.00	0.4	205.9	-0.27	-0.06	193	0.27
81.00	81.00	0.4	203.9	-0.27	-0.06	193	0.28
82.00	82.00	0.3	240.6	-0.28	-0.07	193	0.28
83.00	83.00	0.3	240.6	-0.28	-0.07	193	0.29
84.00	84.00	0.4	194.8	-0.28	-0.07	194	0.29
85.00	85.00	0.3	231.4	-0.29	-0.07	194	0.30
86.00	86.00	0.3	318.5	-0.29	-0.07	194	0.30
87.00	87.00	0.0	18.1	-0.30	-0.07	194	0.31
88.00	88.00	0.4	179.3	-0.30	-0.08	194	0.31
89.00	89.00	0.3	221.8	-0.30	-0.08	194	0.31
90.00	90.00	0.4	263.0	-0.31	-0.08	195	0.32
91.00	91.00	0.4	194.1	-0.31	-0.08	195	0.32
92.00	92.00	0.3	200.9	-0.32	-0.08	195	0.33

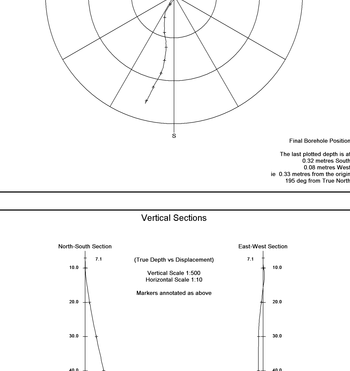
Cross Section

All Figures are Log Depths in metres

Target Origin Depth 7.10
Last Plotted Depth 93.00
Depth Markers annotated in multiples of 10
First Depth Marker at 10
Last Depth Marker at 90

Plot With Respect to True North

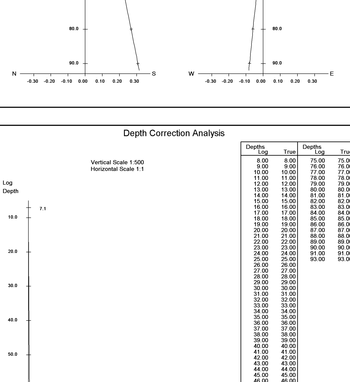
Scale 1:5
Declination 18.1 deg East



Final Borehole Position

The last plotted depth is at
0.32 metres South
0.08 metres West
ie 0.33 metres from the origin
195 deg from True North

Vertical Sections



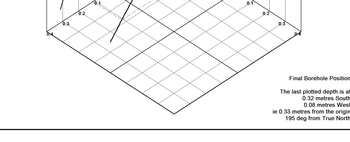
Depth Correction Analysis

Depths		Depths	
Log	True	Log	True
8.00	8.00	75.00	75.00
9.00	9.00	76.00	76.00
10.00	10.00	77.00	77.00
11.00	11.00	78.00	78.00
12.00	12.00	79.00	79.00
13.00	13.00	80.00	80.00
14.00	14.00	81.00	81.00
15.00	15.00	82.00	82.00
16.00	16.00	83.00	83.00
17.00	17.00	84.00	84.00
18.00	18.00	85.00	85.00
19.00	19.00	86.00	86.00
20.00	20.00	87.00	87.00
21.00	21.00	88.00	88.00
22.00	22.00	89.00	89.00
23.00	23.00	90.00	90.00
24.00	24.00	91.00	91.00
25.00	25.00	93.00	93.00
26.00	26.00		
27.00	27.00		
28.00	28.00		
29.00	29.00		
30.00	30.00		
31.00	31.00		
32.00	32.00		
33.00	33.00		
34.00	34.00		
35.00	35.00		
36.00	36.00		
37.00	37.00		
38.00	38.00		
39.00	39.00		
40.00	40.00		
41.00	41.00		
42.00	42.00		
43.00	43.00		
44.00	44.00		
45.00	45.00		
46.00	46.00		
47.00	47.00		
48.00	48.00		
49.00	49.00		
50.00	50.00		
51.00	51.00		
52.00	52.00		
53.00	53.00		
54.00	54.00		
55.00	55.00		
56.00	56.00		
57.00	57.00		
58.00	58.00		
59.00	59.00		
60.00	60.00		
61.00	61.00		
62.00	62.00		
63.00	63.00		
64.00	64.00		
65.00	65.00		
66.00	66.00		
67.00	67.00		
68.00	68.00		
69.00	69.00		
70.00	70.00		
71.00	71.00		
72.00	72.00		
73.00	73.00		
74.00	74.00		

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth 7.10
Last Plotted Depth 93.00

Plot With Respect to True North
Declination 18.1 deg East



Final Borehole Position

The last plotted depth is at
0.32 metres South
0.08 metres West
ie 0.33 metres from the origin
195 deg from True North

VERTICALITY ANALYSIS

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-026
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA CANADA

UWI	Surface Location	Lat	Long	Block	Group	Date Spudded	Date Reached TD	Date Rig Released	Date Abandoned	Drilling Contractor	Rig Type	Ground Elevation	Elevation Reference	Total Depth	Plug Back Depth	Kelly Bushing Elevation	Drill Floor Elevation	Casing Flange Elevation	Water Depth	Lowest Known Formation	Date Perforated	Drill Stem Test	Initial Production	Initial Reservoir	Water Production	Initial Gas Rate	Initial Gas Cumulative	Initial Condensate Rate	Initial Condensate Cumulative	Initial Water Rate	Initial Water Cumulative	Completion Method	Completion Fluid	Formation at Total Depth	Status	Field	Pool	Lease	Unit	Well Name
100	06-26-026-09W0/6	49.90000	-124.90000	0	0	09-JUL-2009	10-JUL-2009	10-JUL-2009				0.00	KB	104.000		0.00																								

BOREHOLE RECORD

Last Edited: 18-JUL-2009 12:49

Bit Size millimetres	Depth From metres	Depth To metres
152.400	0.00	10.00
108.000	10.00	70.00
104.000	70.00	82.20

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	110.000	0.00	12.00	14.14

REMARKS

COORDINATES
NORTHING
5487100

EASTING
392890

TOOL RUNS
MRS,DOS,VERT

BORE WALL CONG GOOD
BORE HOLE CONG GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

Verticality Analysis Interpretation Notes

18-JUL-2009 13:07

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:45000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10m sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 25, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH — The depth recorded on the field logs for the borehole.

TRUE DEPTH — The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.

HOLE TILT AND AZIMUTH — The sampled borehole orientation.

ANAL COORDINATES — The coordinates North and East from the target origin.

POLAR COORDINATES — The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logic\Comsol2RAVv09-026\VD4-208-M.dta
All Co-ordinates With Respect To True North, all depths in metres

Date Processed 18-JUL-2009
Date Logged 18-JUL-2009

First Depth 7.10, 0.00 North, 0.00 East Origin

DEPTHS Log	DEPTHS True	HOLE TILT	HOLE AZIMUTH	ANAL CO-ORDS North	ANAL CO-ORDS East	POLAR Deg	POLAR Radius
8.00	8.00	0.3	275.6	-0.00	-0.00	242	0.00
9.00	9.00	0.3	152.3	-0.00	0.00	176	0.00
10.00	10.00	0.0	86.0	-0.00	0.00	132	0.00
11.00	11.00	0.0	86.0	-0.00	0.00	132	0.00
12.00	12.00	0.4	162.4	-0.00	0.01	114	0.01
13.00	13.00	0.4	263.4	-0.01	0.01	125	0.01
14.00	14.00	0.3	213.6	-0.01	0.01	145	0.01
15.00	15.00	0.4	249.0	-0.01	0.00	173	0.01
16.00	16.00	0.4	189.7	-0.01	0.00	179	0.01
17.00	17.00	0.0	19.1	-0.02	-0.01	197	0.02
18.00	18.00	0.4	232.5	-0.02	-0.01	199	0.02
19.00	19.00	0.4	189.7	-0.02	-0.01	204	0.02
20.00	20.00	0.0	18.1	-0.03	-0.01	204	0.03
21.00	21.00	0.3	178.2	-0.03	-0.01	205	0.03
22.00	22.00	0.3	266.0	-0.03	-0.02	206	0.03
23.00	23.00	0.3	264.7	-0.04	-0.02	207	0.04
24.00	24.00	0.4	189.7	-0.04	-0.02	207	0.04
25.00	25.00	0.4	218.2	-0.04	-0.02	206	0.05
26.00	26.00	0.4	215.1	-0.05	-0.03	208	0.05
27.00	27.00	0.4	189.7	-0.05	-0.03	208	0.06
28.00	28.00	0.0	219.9	-0.06	-0.03	205	0.06
29.00	29.00	0.4	198.8	-0.06	-0.03	204	0.07
30.00	30.00	0.3	145.6	-0.07	-0.03	203	0.07
31.00	31.00	0.0	18.1	-0.07	-0.03	203	0.07
32.00	32.00	0.3	178.2	-0.07	-0.03	203	0.08
33.00	33.00	0.4	189.7	-0.08	-0.03	200	0.08
34.00	34.00	0.3	229.5	-0.08	-0.03	199	0.09
35.00	35.00	0.4	189.7	-0.09	-0.03	197	0.09
36.00	36.00	0.4	183.3	-0.09	-0.03	197	0.10
37.00	37.00	0.3	224.4	-0.10	-0.03	196	0.10
38.00	38.00	0.0	18.1	-0.10	-0.03	196	0.10
39.00	39.00	0.4	180.1	-0.10	-0.03	195	0.11
40.00	40.00	0.4	189.7	-0.11	-0.03	194	0.11
41.00	41.00	0.4	183.3	-0.11	-0.03	194	0.12
42.00	42.00	0.3	215.1	-0.12	-0.03	193	0.12
43.00	43.00	0.4	189.7	-0.12	-0.03	192	0.13
44.00	44.00	0.3	236.2	-0.13	-0.03	191	0.13
45.00	45.00	0.3	209.6	-0.13	-0.02	191	0.13
46.00	46.00	0.4	166.4	-0.13	-0.02	190	0.14
47.00	47.00	0.6	212.9	-0.14	-0.02	190	0.14
48.00	48.00	0.4	189.7	-0.15	-0.02	190	0.15
49.00	49.00	0.4	173.3	-0.15	-0.02	189	0.15
50.00	50.00	0.0	18.1	-0.15	-0.02	189	0.15
51.00	51.00	0.4	189.7	-0.16	-0.02	189	0.16
52.00	52.00	0.3	131.0	-0.16	-0.02	189	0.16
53.00	53.00	0.3	226.3	-0.16	-0.02	189	0.16
54.00	54.00	0.3	225.0	-0.17	-0.02	188	0.17
55.00	55.00	0.0	18.1	-0.17	-0.03	188	0.17
56.00	56.00	0.4	189.7	-0.17	-0.03	188	0.18
57.00	57.00	0.4	190.9	-0.18	-0.03	188	0.18
58.00	58.00	0.0	18.1	-0.18	-0.03	188	0.18
59.00	59.00	0.4	189.7	-0.18	-0.03	188	0.19
60.00	60.00	0.4	183.7	-0.19	-0.03	188	0.19
61.00	61.00	0.6	214.0	-0.19	-0.03	188	0.20
62.00	62.00	0.3	230.4	-0.20	-0.03	189	0.20
63.00	63.00	0.3	145.6	-0.20	-0.03	189	0.20
64.00	64.00	0.4	189.7	-0.20	-0.03	189	0.21
65.00	65.00	0.3	238.5	-0.21	-0.03	189	0.21
66.00	66.00	0.4	199.8	-0.21	-0.03	189	0.21
67.00	67.00	0.4	189.7	-0.21	-0.03	189	0.22
68.00	68.00	0.3	242.4	-0.22	-0.04	189	0.22
69.00	69.00	0.3	154.5	-0.22	-0.04	189	0.23
70.00	70.00	0.4	207.9	-0.23	-0.04	189	0.23
71.00	71.00	0.3	266.4	-0.23	-0.04	190	0.24
72.00	72.00	0.4	189.7	-0.23	-0.04	190	0.24
73.00	73.00	0.4	215.1	-0.24	-0.05	190	0.25
74.00	74.00	0.0	18.1	-0.24	-0.05	191	0.25
75.00	75.00	0.4	189.7	-0.24	-0.05	191	0.26
76.00	76.00	0.6	235.9	-0.25	-0.05	192	0.26
77.00	77.00	0.4	215.8	-0.26	-0.06	192	0.26
78.00	78.00	0.3	204.3	-0.26	-0.06	192	0.27
79.00	79.00	0.0	18.1	-0.26	-0.06	193	0.27
80.00	80.00	0.4	189.7	-0.26	-0.06	193	0.28
81.00	81.00	0.4	203.9	-0.27	-0.06	193	0.28
82.00	82.00	0.4	200.8	-0.28	-0.06	193	0.28
83.00	83.00	0.4	189.7	-0.28	-0.06	193	0.29
84.00	84.00	0.4	194.6	-0.28	-0.07	194	0.29
85.00	85.00	0.3	231.4	-0.29	-0.07	194	0.30
86.00	86.00	0.3	218.5	-0.29	-0.07	194	0.30
87.00	87.00	0.0	18.1	-0.30	-0.07	194	0.31
88.00	88.00	0.4	189.7	-0.30	-0.07	194	0.31
89.00	89.00	0.3	221.8	-0.30	-0.08	194	0.31
90.00	90.00	0.4	263.0	-0.31	-0.08	195	0.32
91.00	91.00	0.4	189.7	-0.31	-0.08	195	0.32
92.00	92.00	0.3	300.9	-0.32	-0.08	195	0.33

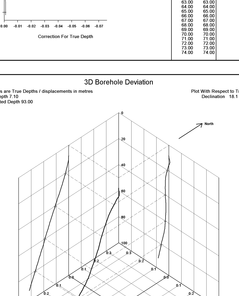
Cross Section

All Figures are Log Depths in metres

Target Origin Depth 7.10
Last Plotted Depth 93.00
Depth Markers annotated in multiples of 10
First Depth Marker at 10
Last Depth Marker at 90

Plot With Respect to True North

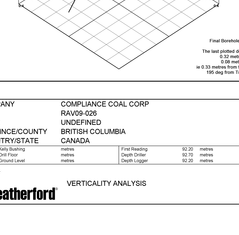
Scale 1:5
Declination 16.1 deg East



Final Borehole Position

The last plotted depth is at
0.32 metres South
0.08 metres West
ie 0.33 metres from the origin
195 deg from True North

Vertical Sections



Depth Correction Analysis

Depths Log	Depths True	Depths True
8.00	8.00	75.00 75.00
9.00	9.00	76.00 76.00
10.00	10.00	77.00 77.00
11.00	11.00	78.00 78.00
12.00	12.00	79.00 79.00
13.00	13.00	80.00 80.00
14.00	14.00	81.00 81.00
15.00	15.00	82.00 82.00
16.00	16.00	83.00 83.00
17.00	17.00	84.00 84.00
18.00	18.00	85.00 85.00
19.00	19.00	86.00 86.00
20.00	20.00	87.00 87.00
21.00	21.00	88.00 88.00
22.00	22.00	89.00 89.00
23.00	23.00	90.00 90.00
24.00	24.00	91.00 91.00
25.00	25.00	93.00 93.00
26.00	26.00	
27.00	27.00	
28.00	28.00	
29.00	29.00	
30.00	30.00	
31.00	31.00	
32.00	32.00	
33.00	33.00	
34.00	34.00	
35.00	35.00	
36.00	36.00	
37.00	37.00	
38.00	38.00	
39.00	39.00	
40.00	40.00	
41.00	41.00	
42.00	42.00	
43.00	43.00	
44.00	44.00	
45.00	45.00	
46.00	46.00	
47.00	47.00	
48.00	48.00	
49.00	49.00	
50.00	50.00	
51.00	51.00	
52.00	52.00	
53.00	53.00	
54.00	54.00	
55.00	55.00	
56.00	56.00	
57.00	57.00	
58.00	58.00	
59.00	59.00	
60.00	60.00	
61.00	61.00	
62.00	62.00	
63.00	63.00	
64.00	64.00	
65.00	65.00	
66.00	66.00	
67.00	67.00	
68.00	68.00	
69.00	69.00	
70.00	70.00	
71.00	71.00	
72.00	72.00	
73.00	73.00	
74.00	74.00	

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth 7.10
Last Plotted Depth 93.00

Plot With Respect to True North
Declination 16.1 deg East

Final Borehole Position

The last plotted depth is at
0.32 metres South
0.08 metres West
ie 0.33 metres from the origin
195 deg from True North

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-026		
FIELD	UNDEFINED		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	92.20 metres
Elevation Drill Floor	metres	Depth Driller	92.70 metres
Elevation Ground Level	metres	Depth Logger	92.20 metres

Weatherford

VERTICALITY ANALYSIS

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-027
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Drill Floor	metres
Elevation Ground Level	metres
Date	20-JUL-2009
Log Measured From	GROUND LEVEL above Permanent Datum
Permanent Datum	GL
Elevation	0.0 metres
Depth Driller	179.50 metres
Depth Logger	178.00 metres
Bottom Log Interval	176.00 metres
Top Log Interval	0.00 metres
Casing Driller	9.25 metres
Casing Logger	0.0 metres
Bit Size	190 millimetres
Type Fluid in Hole	WATER
Density	metres
Viscosity	metres
Fluid Loss	metres
Source of Sample	metres
Rm @ Measured Temp	metres
Rmf @ Measured Temp	metres
Rmc @ Measured Temp	metres
Source Rmf / Rmc	metres
Rm @ BHT	metres
Max Recorded Temp	metres
Equipment / Base	10334
Recorded By	D.CULTRYGHAM
Witnessed By	RIPS, DON
Logging Date	20-JUL-2009
Run Number	1
Depth Driller	179.50 metres
Depth Logger	178.00 metres
Bottom Log Interval	176.00 metres
Top Log Interval	0.00 metres
Casing Driller	9.25 metres
Casing Logger	0.0 metres
Bit Size	190 millimetres
Type Fluid in Hole	WATER
Density	metres
Viscosity	metres
Fluid Loss	metres
Source of Sample	metres
Rm @ Measured Temp	metres
Rmf @ Measured Temp	metres
Rmc @ Measured Temp	metres
Source Rmf / Rmc	metres
Rm @ BHT	metres
Max Recorded Temp	metres
Equipment / Base	10334
Recorded By	D.CULTRYGHAM
Witnessed By	RIPS, DON

BOREHOLE RECORD

Last Edited: 20-JUL-2009 19:20

Bit Size millimetres	Depth From metres	Depth To metres
110.000	0.00	38.00
106.000	38.00	139.50
104.000	139.50	178.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	110.000	0.00	38.00	14.14

REMARKS

COORDINATES:
EASTING:
362820

NORTHING:
5457850

TOOL RUNS:
RR5,DDB,DPVERT, SONIC, NN2, SCANNER

BORE WALL COND : GOOD
BORE HOLE COND : GOOD

FLOWING WELL

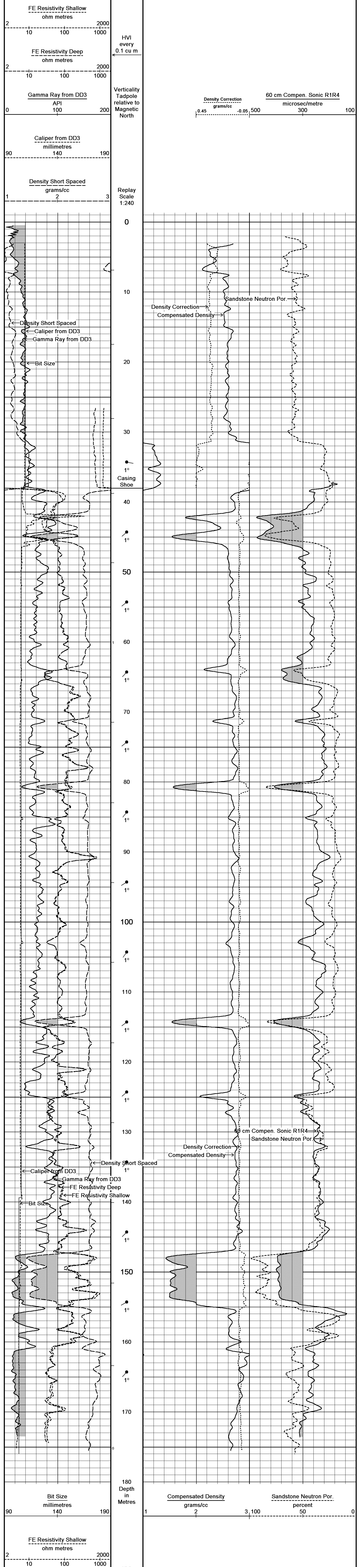
WELL WAS LOGGED STAND ALONE

COULD NOT REACH DRILLER TD DUE TO SLOUGH

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

COMPOSITE LOG 1:240

Depth Based Data - Merged File — Plotted on 20-JUL-2009 19:52
Filename: C:\logs\Compos\09RAV09-027\RAV09-027-M.mge — Merged on 20-JUL-2009 19:26
System Versions: Logged with: 8.06.0212 Merged with: 8.06.0212 Plotted with: 8.06.0212



Depth Based Data - Merged File — Plotted on 20-JUL-2009 19:52
Filename: C:\logs\Compos\09RAV09-027\RAV09-027-M.mge — Merged on 20-JUL-2009 19:26
System Versions: Logged with: 8.06.0212 Merged with: 8.06.0212 Plotted with: 8.06.0212

COMPOSITE LOG 1:240

COMPANY COMPLIANCE COAL CORP
WELL RAV09-027
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA
Elevation Kelly Bushing metres
Elevation Drill Floor metres
Elevation Ground Level metres
Depth Driller 179.50 metres
Depth Logger 178.00 metres

Weatherford

COMPOSITE COAL LOG

Weatherford

Weatherford Canada Partnership
Calgary, Alberta
Canada

Well: 100/06-29-036-02W4/00
Lat: 51.33000 Long: -110.29000
KB: 0.000 m GL: 0.000 m
Date: Jun-01-2011

Operator: Canadian Natural Resources Limited
Rig: Precision Drilling Corporation 174

Weatherford Canada Partnership
Calgary, Alberta
Canada

Well: 100/06-29-036-02W4/00
Lat: 51.33000 Long: -110.29000
KB: 0.000 m GL: 0.000 m
Date: Jun-01-2011

Operator: Canadian Natural Resources Limited
Rig: Precision Drilling Corporation 174

DRILLING TIME

Depth (m)	Time (hrs)	Penetration Rate (m/hr)
0.000	0.000	0.000
0.000	0.000	0.000

CONNECTION TIMES

Time	Connection Time (hrs)	Pump Time (hrs)	Depth (m)
0.000	0.000	0.000	0.000

TRIP TIMES

Time	Depth (m)	Trip Time (hrs)
0.000	0.000	0.000

TRIP GAS

Time	Depth (m)	Trip Gas (%)
0.000	0.000	0.000

CONNECTION GAS

Time	Depth (m)	Connection Gas (%)
0.000	0.000	0.000

DRILLING FLUID

Type: Gel Chem
Density: 1100 kg/m³
Viscosity: 0 s
Pv: 0 mPa·s
Yp: 0 Pa
Filtrate: 0 cc
Cake: 0 mm
Ph: 0
Chlorides: 0 mg/l
Calcium: 0 mg/l
Sand: 0 %
Solids: 0 %
Oil: 0 %
Water: 0 %
Total Circulating Volume: 0 m³

COMPANY: COMPLIANCE COAL CORP.
WELL: RAVEN-027
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

DUAL FOCUSSED ELECTRIC
GAMMA RAY, CALIPER

Weatherford

BOREHOLE RECORD

Bit Size millimetres	Bit Depth metres	Drill Fluid type	Last Entry 20 JUL 2009 14:15 Hours
152.40	30.00	WATER	
152.40	170.00	WATER	
152.40	176.00	WATER	

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
CONDUCTOR	406.40	0.00	30.00	123.2

REMARKS

CONDUCTOR
CASING
SHOE
CEMENTING
SHOE

TOOL SUMS
SINGLE/DUPLICATE/HT, SONIC, NGL SCANNER

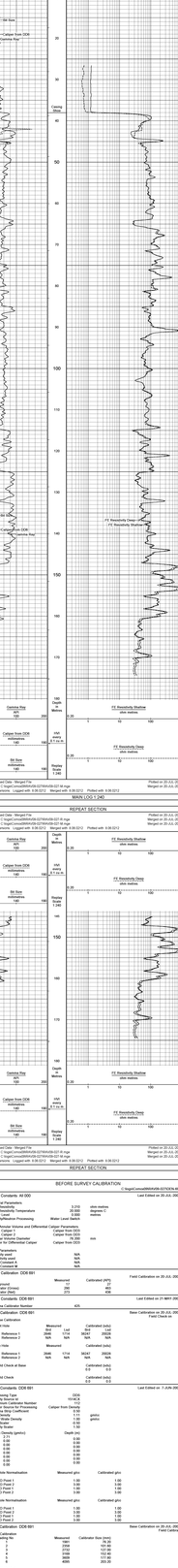
BORE WALL CORED : 0/CCCO
BORE HOLE CORED : 0/CCCO

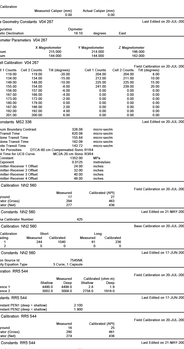
FILMING WELL :

WELL WAS CLOSED STAND ALONE

COULD NOT REACH CHELLIS TO CUE TO BLOUCH

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.





BEFORE SURVEY CALIBRATION

C:\logdc\Compliance\RAVEN-027\CON.001.dat

Last Edited on 20 JUL 2009 19:21

General Constants: All 000

General Parameters		
Mud Resistivity	4.310	ohm metres
Mud Resistivity Temperature	21.000	deg C
Water Level	0.000	metres
Gamma Calibration Processing	Water Level	0.000 metres

Hole/Borehole Volume and Differential Caliper Parameters

HVOL Caliper 1	Caliper from DDB	
HVOL Caliper 2	Caliper from DDB	
Hole Volume Diameter	152.40	mm
Caliper for Differential Caliper	Caliper from DDB	

Raw Parameters		
Density Units	NGL	
Formatted Units	NGL	
SNAP Channel #	N/A	
Gamma Channel #	N/A	

Gamma Calibration: DDB 001

Field Calibration on 20 JUL 2009 11:41

	Measured	Calibrated (API)
Background	17	17
Calibrator (Gross)	290	400
Calibrator (Net)	273	383

Gamma Calibration: DDB 001 — Last Edited on 01 MAY 2009 16:10

Gamma Calibration Number 425

Gamma Calibration: DDB 001

Base Calibration on 20 JUL 2009 19:21
Field Check is

Well Data	Measured		Calibrated (cuts)	
	Dist	Lvd	Dist	Lvd
Reference 1	30.00	30.00	30.00	30.00
Reference 2	176.00	176.00	176.00	176.00
Dry Hole	Measured		Calibrated (cuts)	
	Dist	Lvd	Dist	Lvd
Reference 1	3948	1714	30030	30030
Reference 2	N/A	N/A	N/A	N/A
Field Check at Base			Calibrated (cuts)	
			0.0	0.0
Field Check			Calibrated (cuts)	
			0.0	0.0

Density Constants: DDB 001 — Last Edited on 7-JUN-2009 08:39

Processing Type	DDB	
Density Source W	1014CB	
Density Calibration Number	1014	
Caliper Source for Processing	Caliper from Density	
Gamma Strip Coefficient	0.10	
Density Units	g/cc	g/cm3
Mud Filtrate Density	1.00	g/cm3
SNAP Scaler	4.00	
SNAP Scaler Offset	0.00	

Metric Density (gm/cc)

Depth (m)

0.70	0.00
0.80	0.00
0.90	0.00
1.00	0.00
1.10	0.00
1.20	0.00
1.30	0.00
1.40	0.00
1.50	0.00

Wet Hole Normalisation

Measured gm/cc	Calibrated gm/cc
1.00	1.00
1.50	1.50
2.00	2.00
2.50	2.50
3.00	3.00

Dry Hole Normalisation

Measured gm/cc	Calibrated gm/cc
1.00	1.00
1.50	1.50
2.00	2.00
2.50	2.50
3.00	3.00

Caliper Calibration: DDB 001 — Base Calibration on 20 JUL 2009 19:21
Field Calibration is

Base Calibration

Reading No	Measured (mm)	Calibrated Size (mm)
1	180	76.20
2	2584	101.60
3	3988	152.40
4	4392	203.20
5	4796	254.00
6	4995	203.20

Field Calibration

Measured Caliper (mm)	Actual Caliper (mm)
4995	203.20

Borehole Geometry Constants: VDA 297 — Last Edited on 20 JUL 2009 19:21

Configuration	Diameter		
Magnetic Declination	16.10	degrees	East

Magnetometer Parameters: VDA 297

	X Magnetometer	Y Magnetometer	Z Magnetometer
Minimum	215.000	214.000	195.000
Maximum	255.000	254.000	235.000

Gamma Calibration: VDA 297 — Field Calibration on 20 JUL 2009 11:54
Base Calibration on 20 JUL 2009 19:21

Cal 1 Counts	Cal 2 Counts	Tilt (degrees)	Cal 1 Counts	Cal 2 Counts	Tilt (degrees)
114.00	114.00	0.00	244.00	244.00	0.00
146.00	146.00	10.00	226.00	226.00	10.00
178.00	178.00	20.00	208.00	208.00	20.00
192.00	192.00	30.00	192.00	192.00	30.00
208.00	208.00	40.00	178.00	178.00	40.00
226.00	226.00	50.00	146.00	146.00	50.00
244.00	244.00	60.00	114.00	114.00	60.00

Sonic Constants: MSC 336 — Last Edited on 20 JUL 2009 19:21

Fluid Slowness Contrast	326.08	micro seconds
Casing Slowness	420.00	micro seconds
Limestone Transit Time	155.84	micro seconds
Sandstone Transit Time	182.00	micro seconds
Dolomite Transit Time	142.12	micro seconds
Sonic for Porosities : DTCA 40 (on Compensated Sonic 91914		
Sonic Source for Processing : MCJA 40 (on Sonic 91914		
Hole Diameter	152.40	MPa
Pulse Generator Delay	0.00	microsecs
Transmitter Receiver 1 Offset	24.00	inches
Transmitter Receiver 2 Offset	36.00	inches
Transmitter Receiver 3 Offset	48.00	inches
Transmitter Receiver 4 Offset	60.00	inches

Gamma Calibration: NRD 560 — Field Calibration on 20 JUL 2009 11:41

	Measured	Calibrated (API)
Background	26	26
Calibrator (Gross)	290	400
Calibrator (Net)	264	374

Gamma Calibration: NRD 560 — Last Edited on 01 MAY 2009 15:51

Gamma Calibration Number 425

Neutron Constants: NRD 560 — Last Edited on 17-JUN-2009 16:52

	Matrix	Fluid
Neutron Source W	3 Curie, 1 Cassette	
Porosity Equation Type		

FE Calibration: NRD 544 — Field Calibration on 20 JUL 2009 11:46

	Measured	Calibrated (ohm m)
Background	0.0	0.0
Calibrator (Gross)	290	400
Calibrator (Net)	290	400

Gamma Calibration: NRD 544 — Last Edited on 01 MAY 2009 15:51

Gamma Calibration Number 425

Resistivity Final Constants: NRD 544 — Last Edited on 20 JUL 2009 19:21

Sonde Model	FE Mode
Sonde Electronics to Tool (mm)	3276.00

Logging Date	20 JUL 2009	Total Reading	176.10 metres
Elevation DFS Point	metres	Depth Logger	176.00 metres
Elevation Ground Level	metres	Depth Driller	176.00 metres

DUAL FOCUSSED ELECTRIC
GAMMA RAY, CALIPER

| | | |

MINIPLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-027
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Permanent Datum GL, Elevation: NA metres			
Log Measured From KB, 0.00 metres Above Permanent Datum			
Drilling Measured From KB			
Elevations: KB: GL:			metres

Run Number	1		
Depth Driller	176.00	metres	
Depth Logger	176.00	metres	
Depth Logged	175.90	metres	
First Reading	175.90	metres	
Last Reading	0.00	metres	
Bit Size	110.000	millimetres	
Casing Driller	36.00	metres	
Casing Logger	36.00	metres	
BHT		degrees C	
Max Recorded Temp		degrees C	
Estimated Surface Temp		degrees C	
First Time at Bottom			
Last Time at Bottom			
Max Recorded Temp @ Measured Temp		degrees C	
Equipment / Base	1506		
Truck / Unit	C-COLLINGHAM		
Witnessed By	RCR		

Logging Company	DOWNHOLE GEOPHYSICAL SERVICES	
Logging Date	20-JUL-2009	
Log Number	1	
Depth Reference	KB	
Elevation	NA	metres
Log Interval	176.00	metres
Casing Interval	36.00	metres
Bit Interval	36.00	metres
Type Fluid in Hole	WATER	
Salinity, Density		
Source of Sample		
Rm @ Measured Temp		
Rmf @ Measured Temp		
Rmc @ Measured Temp		
Source Rmf / Rmc		
Rm @ BHT		
Time Since Circulation		
Time Since Cement		
Max Recorded Temp		
Equipment / Base	1506	
Truck / Unit	C-COLLINGHAM	
Witnessed By	RCR	

Licence Number		
Location	SEC TWP RGE	
Permanent Datum	DRILLER'S SCANNER	
Log Measured From		
Drilling Measured From		
Elevations: KB: GL:		metres

COUNTRY	CANADA	
STATE	BRITISH COLUMBIA	
PROVINCE/COUNTY	UNDEFINED	
FIELD		
WELL	RAV09-027	
COMPANY	COMPLIANCE COAL CORP	

BOREHOLE RECORD

Last Edited: 20-JUL-2009 15:13

Bit Size millimetres	Depth From metres	Depth To metres
110.000	0.00	36.00
106.000	36.00	139.50
104.000	139.50	176.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	112.000	0.00	36.00	14.14

REMARKS

COORDINATES:
EASTING:
362620

NORTHING:
5487850

TOOL RUNS:
RRLDDLDPVERT, SONIC, NN2, SCANNER

BORE WALL COND. : GOOD
BORE HOLE COND. : GOOD

FLOWING WELL

WELL WAS LOGGED STAND ALONE

COULD NOT REACH DRILLER TD DUE TO SLOUGH.

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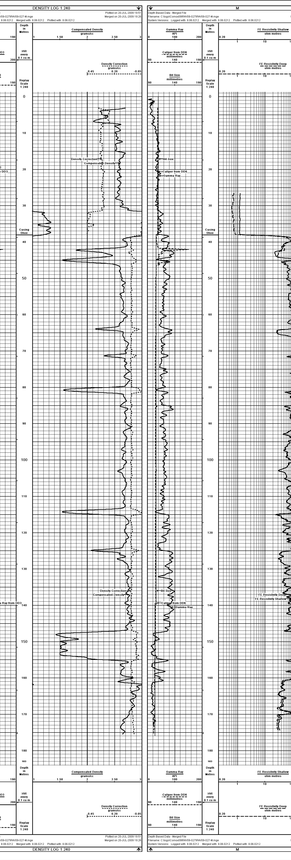
DENSITY LOG 1:240
Density Caliper
Density Correction
Density
Gamma Ray
Caliper
Bit Size
Gamma Ray
Caliper
Bit Size
Gamma Ray
Caliper
Bit Size

60CM COMPENSATED SONIC

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN-027
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Service Company	Weatherford
Date	20-JUL-2006
Time	09:00
Depth Unit	Metres
Time Unit	Seconds
Depth Type	Driller
Max Logged Depth	175.00
Casing Driller	12.00
Casing Logger	12.00
Bit Size	150.00
Fluid in Hole	WATER
Source of Sample	FLOWING
Rm @ Measured Temp	NEVER RECORDED
Rmf @ Measured Temp	NEVER RECORDED
Rmc @ Measured Temp	NEVER RECORDED
Rm @ BHT	NEVER RECORDED
Rmf @ BHT	NEVER RECORDED
Rmc @ BHT	NEVER RECORDED
Max Recorded Temp	12.00
Equipment Number	1004
Location	PRINCE GEORGE
Recorded By	D. HOLMES
Witnessed By	J. CAMPBELL

BOREHOLE RECORD

Last Edited: 20-JUL-2006 09:10

Bit Size	Depth From	Depth To
150.00	0.00	36.00
150.00	36.00	175.00
150.00	175.00	175.00

CASING RECORD

Type	Size (mm)	Weight (kg/m)	Grade	Shoe Depth (m)	Weight Measured (kg)
CONDUCTOR	508.00	NEVER RECORDED		12.00	

REMARKS

CONTRACTOR
SETTING
DRILLING

SERVICES
SONIC

TOOL RUN
EQUIPMENT: SONIC, HAG, SCHLUMBER

BORE HOLE CONDI - GOOD
BORE HOLE TONAL - GOOD

FLOWING WELL

WELL WAS CLOSED STAND ALONE

COULD NOT REACH DRILLER TO GUAT TO BLOWN

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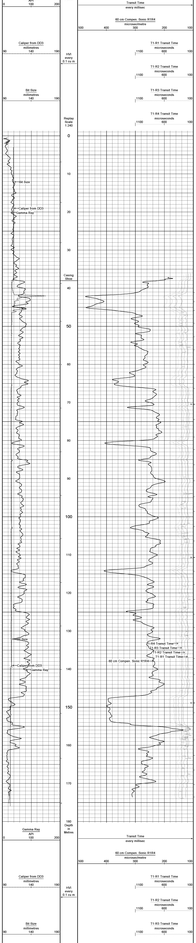
MAIN LOG 1:200

Sqrt Sweet Data - Merged File
Filename: C:\logs\Compliance\RAVEN-027\RAVEN-027.01\1st.dat
Sonic Velocity - Logged with 8.06.0012 Merged with 4.06.0012 Printed with 8.06.0012

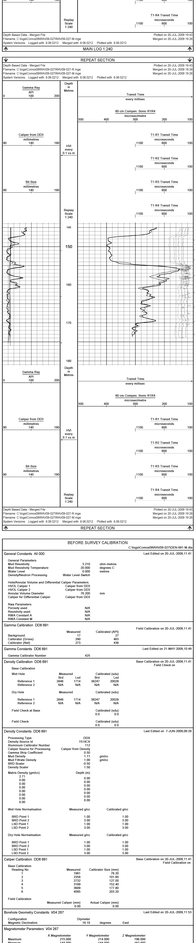
Printed on 20-JUL-2006 09:40
Merged on 20-JUL-2006 09:40



REPEAT SECTION

Sqrt Sweet Data - Merged File
Filename: C:\logs\Compliance\RAVEN-027\RAVEN-027.01\1st.dat
Sonic Velocity - Logged with 8.06.0012 Merged with 4.06.0012 Printed with 8.06.0012

Printed on 20-JUL-2006 09:40
Merged on 20-JUL-2006 09:40



BEFORE SURVEY CALIBRATION

C:\logs\Compliance\RAVEN-027\RAVEN-027.01\Sdc.001 ID dat

Last Edited on 20-JUL-2006 11:41

General Parameters (40 DDS)

Sample Rate	0.310	2000 microsec
Max Downhole Temperature	85.000	degrees C
Sonic Offset	0.000	metres
Data Compression Processing	Water Level Stacks	

Transitional Volume and Differential Capture Parameters

VARTA Capture	Caliper from DDS	
Transition Volume	0.000	cm3
Differential Capture Delay	0.000	cm
Differential Capture Caliper	Caliper from DDS	

Peak Parameters

Polarity used	N/A	
Peak Amplitude	N/A	
RMS Constant A	N/A	
RMS Constant B	N/A	

Gamma Calibration (DDS 681)

Field Calibration on 20-JUL-2006 11:41
Field Check on

	Measured	Calibrated (API)
Background	0.000	0.000
Calibrator (Cross)	280	400
Calibrator (Dia)	275	416

Caliper Calibration (DDS 681)

Last Edited on 21-MAY-2006 12:08

	Measured	Calibrated (mm)
Reference 1	254.0	254.0
Reference 2	508.0	508.0

Field Check on

	Measured	Calibrated (mm)
Reference 1	254.0	254.0
Reference 2	508.0	508.0

Density Calibration (DDS 681)

Last Edited on 7-JUN-2006 08:39

Processing Type	DDS
Density Source ID	1013612
Density Calibration Number	1
Calibrator Source For Processing	Calibrator Values
Mud Density Calibration Method	Fluid
Mud Density	1.11
Mud Density Source	gauge
DDS Gauge	gauge
Density Offset	0.00

Density Gamma (gamma)

	Measured	Calibrated (API)
0.00	0.00	0.00
0.50	0.50	0.50
1.00	1.00	1.00
1.50	1.50	1.50
2.00	2.00	2.00

Density Density (g/cc)

	Measured	Calibrated (g/cc)
1.00	1.00	1.00
1.50	1.50	1.50
2.00	2.00	2.00
2.50	2.50	2.50

Neutron Calibration (DDS 681)

Last Edited on 17-JUN-2006 16:58

	Short Measured	Short Calibrated (%)	Long Measured	Long Calibrated (%)
Background	0	0	0	0
Calibrator (Cross)	0	0	0	0
Calibrator (Dia)	0	0	0	0

Neutron Source ID 7

Neutron Calibration Number 1

	Short Measured	Short Calibrated (%)	Long Measured	Long Calibrated (%)
Background	0	0	0	0
Calibrator (Cross)	0	0	0	0
Calibrator (Dia)	0	0	0	0

FE Calibration (RRS 544)

Field Calibration on 20-JUL-2006 11:41

	Measured	Calibrated (API)
Background	0.000	0.000
Calibrator (Cross)	280	400
Calibrator (Dia)	275	416

Gamma Calibration (RRS 544)

Field Calibration on 20-JUL-2006 11:41

	Measured	Calibrated (API)
Background	0.000	0.000
Calibrator (Cross)	280	400
Calibrator (Dia)	275	416

Caliper Calibration (RRS 544)

Last Edited on 21-MAY-2006 12:08

	Measured	Calibrated (mm)
Reference 1	254.0	254.0
Reference 2	508.0	508.0

Field Check on

	Measured	Calibrated (mm)
Reference 1	254.0	254.0
Reference 2	508.0	508.0

FE Calibration (RRS 544)

Field Calibration on 20-JUL-2006 11:41

	Measured	Calibrated (API)
Background	0.000	0.000
Calibrator (Cross)	280	400
Calibrator (Dia)	275	416

Gamma Calibration (RRS 544)

Field Calibration on 20-JUL-2006 11:41

	Measured	Calibrated (API)
Background	0.000	0.000
Calibrator (Cross)	280	400
Calibrator (Dia)	275	416

Caliper Calibration (RRS 544)

Last Edited on 21-MAY-2006 12:08

	Measured	Calibrated (mm)
Reference 1	254.0	254.0
Reference 2	508.0	508.0

Field Check on

	Measured	Calibrated (mm)
Reference 1	254.0	254.0
Reference 2	508.0	508.0

Sonic (MSS 208)

Last Edited on 20-JUL-2006 11:40

Maximum Resistance Contrast	530.00	micro-secs
Minimum Delta-T	100.00	micro-secs
Coincidence Transit Time	100.00	micro-secs
Coincidence Transit Time	100.00	micro-secs
Transition Volume	0.000	cm3
Transition Volume Delay	0.000	cm
Transition Volume Caliper	Caliper from DDS	
Transition Resistance Cut-Off	0.00	ohms
Transition Resistance Cut-Off	0.00	ohms
Transition Resistance Cut-Off	0.00	ohms
Transition Resistance Cut-Off	0.00	ohms
Transition Resistance Cut-Off	0.00	ohms

Gamma Calibration (MSS 208)

Field Calibration on 20-JUL-2006 11:41

	Measured	Calibrated (API)
Background	0	0
Calibrator (Cross)	280	400
Calibrator (Dia)	275	416

Neutron Calibration (MSS 208)

Last Edited on 17-JUN-2006 16:58

	Short Measured	Short Calibrated (%)	Long Measured	Long Calibrated (%)
Background	0	0	0	0
Calibrator (Cross)	0	0	0	0
Calibrator (Dia)	0	0	0	0

Neutron Source ID 7

Neutron Calibration Number 1

	Short Measured	Short Calibrated (%)	Long Measured	Long Calibrated (%)
Background	0	0	0	0
Calibrator (Cross)	0	0	0	0
Calibrator (Dia)	0	0	0	0

FE Calibration (RRS 544)

Field Calibration on 20-JUL-2006 11:41

	Measured	Calibrated (API)
Background	0.000	0.000
Calibrator (Cross)	280	400
Calibrator (Dia)	275	416

Gamma Calibration (RRS 544)

Field Calibration on 20-JUL-2006 11:41

	Measured	Calibrated (API)
Background	0.000	0.000
Calibrator (Cross)	280	400
Calibrator (Dia)	275	416

Gamma Calibration (RRS 544)

Last Edited on 21-MAY-2006 12:08

	Measured	Calibrated (mm)
Reference 1	254.0	254.0
Reference 2	508.0	508.0

Field Check on

	Measured	Calibrated (mm)
Reference 1	254.0	254.0
Reference 2	508.0	508.0

Gamma Calibration (RRS 544)

Field Calibration on 20-JUL-2006 11:41

	Measured	Calibrated (API)
Background	0.000	0.000
Calibrator (Cross)	280	400
Calibrator (Dia)	275	416

Gamma Calibration (RRS 544)

Last Edited on 21-MAY-2006 12:08

	Measured	Calibrated (mm)
Reference 1	254.0	254.0
Reference 2	508.0	508.0

Field Check on

	Measured	Calibrated (mm)
Reference 1	254.0	254.0
Reference 2	508.0	508.0

Density Pad Contact (DDS 681)

Last Edited on 20-JUL-2006 11:41

Sonde Mode	FE Mode
Sonde Electronics Id. Type	DDS

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN-027
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Service Company	Weatherford
Date	20-JUL-2006
Time	09:00
Depth Unit	Metres
Time Unit	Seconds
Depth Type	Driller
Max Logged Depth	175.00
Casing Driller	12.00
Casing Logger	12.00
Bit Size	150.00
Fluid in Hole	WATER
Source of Sample	FLOWING
Rm @ Measured Temp	NEVER RECORDED
Rmf @ Measured Temp	NEVER RECORDED
Rmc @ Measured Temp	NEVER RECORDED
Rm @ BHT	NEVER RECORDED
Rmf @ BHT	NEVER RECORDED
Rmc @ BHT	NEVER RECORDED
Max Recorded Temp	12.00
Equipment Number	1004
Location	PRINCE GEORGE
Recorded By	D. HOLMES
Witnessed By	J. CAMPBELL

60CM COMPENSATED SONIC

Weatherford

Weatherford

COMPANY COMPUCHECK TOOL CORP
WELL HANSEN
FIELD HANSEN
PROJECT/SECTION BRYAN COUNTY
COUNTY/STATE OKLAHOMA
SECTION/TOWNSHIP/RANGE SECTION 22N-6E, 22N-6E, 22N-6E
SECTION/TOWN/RANGE SECTION 22N-6E, 22N-6E, 22N-6E

COMPUCHECK TOOL CORP
HANSEN
BRYAN COUNTY, OKLAHOMA
SECTION 22N-6E, 22N-6E, 22N-6E
SECTION 22N-6E, 22N-6E, 22N-6E

Date	2/2/2011		
Time	10:00		
Operator	Jeff Hansen		
Rig	Hansen Drilling Co.		
Tool Type	Mechanical	**Tool Number**	1
Tool Depth	1,000	**Tool Length**	0
Drill Pipe	4.5	**Drill Collar**	0
Hole Size	7.875	**Hole Angle**	0
Mud Type	Fresh Water	**Mud Weight**	8.4
Viscosity	28	**Water Loss**	10
Chlorides	0	**Resistivity**	0
Recovery	0	**Gas Recovery**	0
Blow Type	Weak		

REMARKS:

Tool Open at 10:00 AM
Tool Closed at 10:30 AM
Tool Open at 11:00 AM
Tool Closed at 11:30 AM
Tool Open at 12:00 AM
Tool Closed at 12:30 AM
Tool Open at 1:00 AM
Tool Closed at 1:30 AM

Recovered 0 Feet of Mud

Initial Hydrostatic 0 PSI
Initial Flow Period 0 PSI
Initial Closed In Period 0 PSI
Final Flow Period 0 PSI
Final Closed In Period 0 PSI
Final Hydrostatic 0 PSI

Tool Operated 1 Hrs 0 Min

Tool Failure Occurred: NO

Tool Failure Description: NONE

Tool Failure Occurred: NO

Tool Failure Description: NONE

Tool Failure Occurred: NO

Tool Failure Description: NONE

VERTICALITY ANALYSIS

COMPANY COMPLIANCE COAL CORP
WELL RAV09-027
FIELD UNDEFINED
PROVINCE/COUNTRY BRITISH COLUMBIA, CANADA

Date Logged: 20-JUL-2009
Date Processed: 20-JUL-2009
Date Printed: 26-JUL-2009
Weatherford Vertical Deviation Report
Calculation Method: Minimum Curvature
Vertical Section Direction: 0.00 Degrees
Vertical Section Plane: 0.00 Degrees
Vertical Section Reference: Rotary Table
Vertical Section Distance: 170.00 Meters
Vertical Section Precision: 0.00 Meters
Total Corrections: Declination: 18.1 Deg East; Grid Convergence: 0.0 Deg; Total Correction: 18.1 Deg
Depth Reference: Rotary Table
Depth Units: Meters
Distance Units: Meters
Dogleg Units: Degrees per 30 Meters
Vertical Section Output Units: Meters
Coordinate Output Units: Meters
Latitude Output Units: Degrees
Longitude Output Units: Degrees
Grid Output Units: Meters
Vertical Section Azimuth: 0.00 Degrees
Vertical Section Origin: 0.00 N, 0.00 E
Vertical Section Grid Coordinates: 0.00 E, 0.00 N
Vertical Section Latitude: 0.00 Degrees
Vertical Section Longitude: 0.00 Degrees

COMPOSITE COAL LOG

COMPANY: COMPLIANCE COAL CORP
WELL: RAVEN-028
FIELD: RAVEN
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

Elevation: 1000.00 m
Kelly Bushing: 1000.00 m
Ground Elevation (m): 1000.00 m

Date: 10-Oct-2008
Time: 14:00
Depth Logged: 1000.00 m

Field Engineer: Chris Lewis
Field Office: Sparwood
Depth Logged: 1000.00 m

Logging Company: Weatherford
Logging Unit: 0
Logging Engineer: Jeff Lewis

Weatherford

COMPOSITE COAL LOG

BOREHOLE RECORD

Bit Size (mm)	Top (m)	Bottom (m)
159.00	0.00	1000.00
152.00	1000.00	1000.00
152.00	1000.00	1000.00
152.00	1000.00	1000.00
152.00	1000.00	1000.00

Last Drilled: 10-OCT-2008 12:00
Total Depth: 1000.00 m
Kelly Bushing: 1000.00 m
Ground Elevation: 1000.00 m
Drill Time Interval: 1000.00 m
Drill Time Interval: 1000.00 m
Drill Time Interval: 1000.00 m
Drill Time Interval: 1000.00 m

CASING RECORD

Type	Size (mm)	Depth (m)	Drive Depth (m)	Weight (kg/m)
Surface	152.00	1000.00	1000.00	0.00

REMARKS

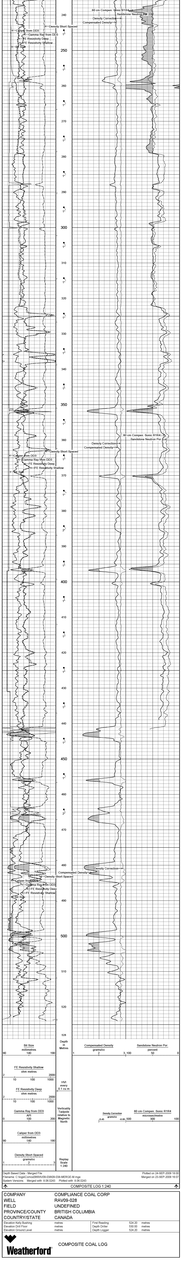
COORDINATES
LOCATION
NORTHING
EASTING
TOTAL DEPTH
DRILLING DATE, MEO, DRL, ROD
DATE, TIME, DEPTH
DATE, TIME, DEPTH
CLOSING WELL:

WELL WAS CLOSED OFF OF WELL LOCATION ON 5 OPERATE DAYS.

ON FIRST ATTEMPT OF CLOSING A WELL AND CHECKS IN WELLCUPT THE BOTTOM WAS CLOSED FULL SLOTS FROM AN ABN
ON SECOND ATTEMPT OF CLOSING A WELL AND CHECKS IN WELLCUPT THE BOTTOM WAS CLOSED FULL SLOTS FROM AN ABN
ON THIRD ATTEMPT WAS THROUGH ROCK NO ABLAR PROBLEMS.

ON FOURTH ATTEMPT WAS THROUGH ROCK NO ABLAR PROBLEMS.
ON FIFTH ATTEMPT WAS THROUGH ROCK NO ABLAR PROBLEMS. ON THE BOTTOM WAS OPEN VALVE TO WAKE IT TO SAVE BLANCED
SAW ON FIFTH ATTEMPT WAS A LEAK ABLAR ON 5 ABLAR DEPTH SAW ABLAR PROBLEMS. OFF OF WELL
SOME LOGS WILL HAVE GAPS/ DEPTHS DUE TO MAL OFF, AND MEO ONLY BEING LOGGED FROM MY

All interpretations, the opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our standard terms and conditions as set out in our current price schedule.


COMPOSITE LOG 1 (MD)
North Beam Tube - Margin1 Pic
Generated on 10-OCT-2008 11:00
Depth Scale: 1:200
Bit Size (millimetres)
F3 Resistivity Shallow (ohm metres)
F3 Resistivity Deep (ohm metres)
Gamma Ray Scale 0/20 (API units)
Caliper Scale 0/20 (millimetres)
Density Short Spaced (grams/cc)
Density Short Spaced
Gamma Ray Scale 0/20
Caliper Scale
Density Short Spaced
Gamma Ray Scale 0/20
Bit Size

Ministerio de Salud
Hospital Clínico San José
Unidad de Cuidados Intensivos Adulto

Nombre: [redacted]
Rut: [redacted]
Edad: [redacted]
Cama: [redacted]
Ingreso: [redacted]
Diagnóstico: [redacted]

Antecedentes: [redacted]

Alergias: [redacted]

Medicamentos: [redacted]

Tratamiento: [redacted]

Observaciones: [redacted]

Ventilación: [redacted]

Sedación: [redacted]

Vasopresores: [redacted]

Hemodinamia: [redacted]

Hemoderivados: [redacted]

Nutrición: [redacted]

Diuresis: [redacted]

Balance: [redacted]

Cultivos: [redacted]

Pendientes: [redacted]

Exámenes: [redacted]

Procedimientos: [redacted]

Interconsultas: [redacted]

Indicaciones: [redacted]

Pronóstico: [redacted]

Observaciones: [redacted]

Fecha: [redacted]

Hora: [redacted]

Firma: [redacted]

Nombre: [redacted]

Rut: [redacted]

Cama: [redacted]

Ingreso: [redacted]

DIPMETER ANALYSIS

COMPANY COMPLIANCE COAL CORP
WELL RAVEN-029
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Drilling Fluid Water Based
Fluid Density 1.00 kg/m³
Viscosity 0.00 cp
Resistivity 0.00 ohm-m
Fluid Loss 0.00 cc/30min
Hardness 0.00 mg/l
Ph 0.00 mg/l
Chlorides 0.00 mg/l
Calcium 0.00 mg/l
Magnesium 0.00 mg/l
Sulphate 0.00 mg/l
Bicarbonate 0.00 mg/l
Carbonate 0.00 mg/l
Hydrogen Sulphide 0.00 mg/l

Weatherford

DIPMETER ANALYSIS

COMPLIANCE COAL CORP.
RAVEN-029
UNDEFINED
BRITISH COLUMBIA
CANADA

Bit Size	Casing Size	Depth From	Depth To
311.00	244.50	0.00	20.00
311.00	177.80	20.00	250.00
190.500	139.70	250.00	300.00
190.500	114.30	300.00	350.00
190.500	101.60	350.00	400.00
190.500	88.90	400.00	450.00

CASING RECORD

Casing	Size	Depth From	Depth To	Wire Depth	Weight
Casing	139.700	0.00	250.00	0.00	34.00
Casing	114.300	0.00	300.00	0.00	34.00
Casing	101.600	0.00	350.00	0.00	34.00
Casing	88.900	0.00	400.00	0.00	34.00

REMARKS

COORDINATES
LOCATION
NATIONAL

TOTAL RUNS:
DRILLING: BRN, WRD, WRL, SNL, SUD

BORE HOLE LITHO: POOR
BORE HOLE CONDITION: POOR

BORE HOLE:
WELL BARE LONGEST OFF RIG: LOGGED ON 5 DIFFERENT DAYS

BIT SIZE AT START OF LOGGING: 311 MM DRILLED ALL OUT THE BOTTOM MM LOGGED FULL SUITE FROM 400 MM
DIPMETER WAS STUCK IN HOLE AT 400 METRE DEPTH. THE MPETE TECT TWO LOG IN FORM MEMO. NO REPORT. RUN 2(3) TO TAG BOTTOM

RETURN TO START WAS THROUGH HOLE. NO FILLON RECORD

THERE IS REPORT MPA AT PER THE CLEANOUT IN AN REPORT TO 1.5 FT THE BOTTOM MM OPEN HOLE. PE MEDIT TO 1.5M 20.40 DEG
TO 1.5M 20.40 DEG. 0.7 M ABOVE THE BOTTOM MM OPEN HOLE. PE MEDIT TO 1.5M

THERE LOGS WELL HAVE OPENING DEPTHS SLIGHT TO FAIL OFF AND MISS ONLY MEDIUM LOGGED PRESS MD

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WINN LOG 1 2AD

Job Name/ Date - Merged Fit
Filename: C:\logs\1.winnpc\RAVEN-029\DIPMETER.dat
Date/ Version - Merged with 8-06-2005 Pitches with 5-06-2005

Printed on 24-MAR-2006 17:41
Merged on 20-JAN-2006 17:00

General Field 1
Caliper
mm 100 — 200

General Field 2
Gamma Ray
API 0 — 150

Formation Dip
Scale=5.0" Vertical=5
Dip Tolerance=

General Field 3
Caliper
mm 100 — 200

Variability
Variability
Variability
mm 0 — 100

General Field 7
Gamma Ray
API 0 — 150

Rose Diagram
Jump Angle: Bottom

Bit Size
mm 100 — 200

Azi
Azimuth
0 — 360

General Field 8
Azimuth
0 — 360

Gamma Ray
API 0 — 150

Depth
Depth
Depth
m 250 — 500

Depth
m 250 — 500

Bit Size
Bit Size
Bit Size

DUAL FOCUSSED ELECTRIC SHAM RAY, CALIPER

COMPANY COMPLIANCE COIL CORP
WELL 1-2-3-4 HORIZONTAL
FIELD UNDERHILL
PROVINCE/COUNTY BRITISH COLUMBIA
Permanent Datum: GL Elevation: 0.000 m
Log Measured From: KB 4.000 m Above Perm. Datum
Drilling Measured From: KB

Log Date: 12-Jun-2008
Run Number: ONE
Depth Driller: 1000.000 m
Depth Logger: 1000.000 m
Bottom Log Interval: 1000.000 m
Top Log Interval: 0.000 m
Casing Driller: 0.000 m @ 0.000 m
Casing Logger: 0.000 m
Bit Size: 0.000 m
Type Fluid in Hole: WATER
Density: 0.000 kg/m3
Viscosity: 0.000 mPa.s
Max Rec Temp: 0.000 degC
Estimated Cement Top: 0.000 m

Equipment: 1000 m Truck
Location: 1000 m Truck
Recorded By: Rig Crew
Witnessed By: Company Rep

Weatherford

DUAL FOCUSSED ELECTRIC
SHAM RAY, CALIPER

COMPANY	COMPLANCE COAL CORP
WELL	RAVEN-026
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Date	03-Jan-2008
Elevation Kelly Bushing	metres
Elevation Ground Level	metres
Elevation Drill Floor	metres
Elevation Casing Flange	metres
Total Depth Driller	1000.00 metres
Total Depth Logger	1000.00 metres
Bit Size	216.00 mm
Casing Driller	216.00 mm @ 0.00 metres
Casing Logger	216.00 mm @ 0.00 metres
Bit Hole Fluid	AIR
Density	kg/m3
Viscosity	mPa.s
Fluid Loss	cc/30min
Source of Sample	FLOWLINE
Rm @ Measured Temp	ohmm @ deg C
Rmf @ Measured Temp	ohmm @ deg C
Rmc @ Measured Temp	ohmm @ deg C
Rm @ BHT	ohmm @ deg C
Time Since Circulation	hrs
Time Since Logging	hrs
Max Recorded Temp	deg C
Equipment Number	1001
Location	Surface
Recorded By	D. Hamilton
Witnessed By	Mr. Bob Hoffman

DUAL MINIFLOT

COMPLANCE COAL CORP
RAVEN-026
UNDEFINED
BRITISH COLUMBIA
CANADA

BOREHOLE RECORD		
Bit Size	Depth From	Last Drilled: 03-MAR-2008 12:00
108.00	0.00	Depth To
108.00	18.00	18.00
152.00	18.00	152.00
152.00	152.00	216.00
216.00	216.00	307.00
216.00	307.00	1000.00
216.00	1000.00	1000.00

CASING RECORD				
Type	Size (diameter) mm	Weight per unit length kg/m	Shoe Depth metres	Weight below shoe kg/m

REMARKS

COORDINATES
LENGTHS

DEPTHS

TOOL SUMMARY
DUAL MINIFLOT, MSI, VSI, RGD

SONDE WALL CONDITION : POOR
SONDE HOLE CONDITION : POOR

FLOWING WELL

WELL WAS LOGGED OFF OF RIG, LOGGED ON 3 SPERRY'S DAYS.

WITNESS ATTEMPT OF LOGGING HOLE AND CASED IN HELI OFF THE BOTTOM BBB. LOGGED FULL SUITE FROM 4M BBB TO SURFACE. LOGGED HOLE AT MULTIPLE DEPTHS - THIS AFFECTED THE LOG IN A FEW AREAS. NO REPEAT WAS DUE TO THE CONDITIONS.

HELI HAS ATTEMPT WAS THROUGH HOLES, NO MAJOR PROBLEMS.

THREE ATTEMPT BBB AFTER THE CLEANOUT IN AN ATTEMPT TO GET THE BOTTOM BBB OPEN HOLE. TO MADE IT TO 524.00 AND DONE ONE LAST ITEM AND CLIENT REFUSED TO COMPLETE SPP RUN INSTALL OUT OF HOLE.

SOME LOGS WILL HAVE WARPING DEPTHS DUE TO HELI, SPP, AND HELI ONLY BEING LOGGED FROM 4M.

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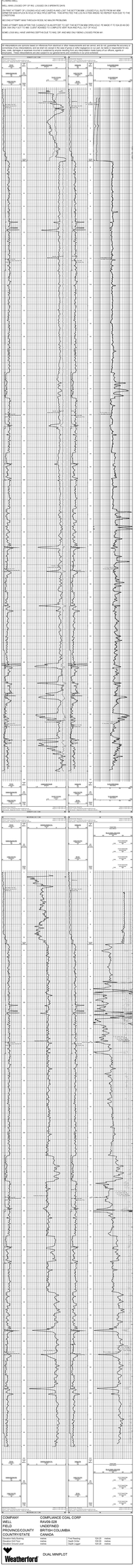
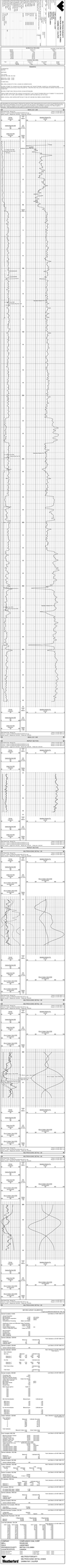


CHARLOTTE COUNTY, FLORIDA

Operator	CHARLOTTE COUNTY
Well	CHARLOTTE
Field	UNKNOWN
County	CHARLOTTE COUNTY, FLORIDA
Coordinates	Latitude: 26.9333 Longitude: -82.0333
Elevation	KB: 0.00 m DF: 0.00 m GL: 0.00 m
Date	Spud: 01-Jan-1900 Completed: 01-Jan-1900
Logging Date	01-Jan-1900
Log Type	HRI-PEX-HNGS-NGS-DSI-DTC-DTS-CMR-FMI-GPIT-VSI-MSCT
Logging Company	Halliburton Energy Services
Logging Unit	Sidetrack, Unit 1, Laptop 6



RICH COMPENSATED SONIC

COMPANY	CORPORATE COAL CORP
WELL	RIVER-DR
FIELD	WILDCAT
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Date	17-Jan-2008
Service Order	0801-0008

Weatherford

SCHEDULE RECORD

Bit Size	Top Log	Log Int
311.00	0.00	1000.00
216.00	1000.00	1500.00
152.00	1500.00	2000.00
98.00	2000.00	2100.00

CASING RECORD

Type	Size	Weight	Wire Rope	Depth
Surface	244.50	0.00	0.00	0.00

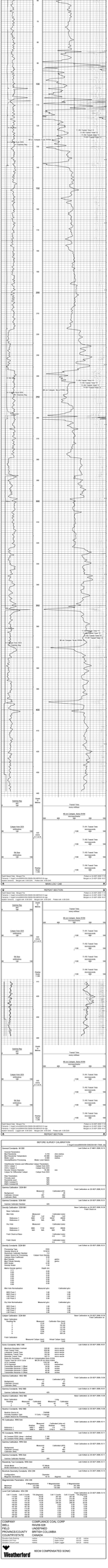
REMARKS

CONTRACTOR:
RIG:
SPONSOR:
FOR:
TOOL TYPE:
SONDE TYPE: BRC, RSI, RSAT
RUN NO: ONE, TWO, THREE
DATE: 17-JAN-08
CLEARING:
BRC-A: CALIBRATED OFF BAL. LOCKED ON CARRIER SIGNAL

BOTTOM OF STUDY: 2100.00 FT LOGGED FROM 0.00 FT TO 2100.00 FT. FOR THE ENTIRE RUN. LOGGED FULL SECTION OF HOLE. ALL DATA PRESENTED ON THIS LOG IS PRELIMINARY UNTIL IT HAS BEEN REVIEWED BY A QUALIFIED PERSON. ALL DATA PRESENTED ON THIS LOG IS PRELIMINARY UNTIL IT HAS BEEN REVIEWED BY A QUALIFIED PERSON.

TOP OF STUDY: 0.00 FT LOGGED FROM 0.00 FT TO 2100.00 FT. FOR THE ENTIRE RUN. LOGGED FULL SECTION OF HOLE. ALL DATA PRESENTED ON THIS LOG IS PRELIMINARY UNTIL IT HAS BEEN REVIEWED BY A QUALIFIED PERSON. ALL DATA PRESENTED ON THIS LOG IS PRELIMINARY UNTIL IT HAS BEEN REVIEWED BY A QUALIFIED PERSON.

NOTE: CALI, RHO, DRHO DATA PRESENTED IN THIS LOG ARE WEIGHTED. BRC-A DATA PRESENTED IN THIS LOG ARE WEIGHTED.


BRC-A CALIBRATION
Field Data Sonic - Primary Fit
Sonic Calibration Equation: DT = 0.0000 * DT + 0.0000
Sonic Calibration Source: Calibration Equation
Sonic Calibration Date: 17-JAN-2008
Sonic Calibration Time: 00:00:00
Sonic Calibration Operator: Weatherford
Sonic Calibration Comment: Calibration Equation
Calibrated Sonic Data
Calibrated Sonic Data
Bit Size
Caliper Data
Bad Hole
Sonic Data
Sonic Data
Sonic Data

COMPANY	COMPLIANCE COAL CORP		
WELL	RAVEN 35		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	460.00 metres
Elevation Drill Floor	metres	Depth Driller	530.00 metres
Elevation Ground Level	metres	Depth Logger	524.20 metres

Weatherford

VERTICALITY ANALYSIS

VERTICALITY ANALYSIS

COMPLIANCE COAL CORP
RAVEN 35
UNDEFINED
BRITISH COLUMBIA
CANADA

DATE	23-SEP-2009	PROJECT	
PROGNOSTICATOR		SHOW DEPTH	
BIT		DIRECTION	
DATUM			

Latitude	49	Longitude	115
Minutes	0.000	Minutes	0.000
Seconds	0.000	Seconds	0.000
Decimal	49.000000	Decimal	-115.000000

Elevation: 0.00 Metres Referenced to Datum

Declination	20	Convergence	
Date	23-SEP-2009	Method	MAGNETIC

BOREHOLE RECORD

Last Edited 23-SEP-2009 12:53

Bit Size millimetres	Depth From metres	Depth To metres
158.000	0.00	139.00
112.000	55.20	139.00
158.000	139.00	299.00
103.000	299.00	597.00
158.000	597.00	401.00
103.000	401.00	524.20

CASING RECORD

Type	Size millimetres	Depth From metres	Depth To metres	Weight kg/metre
	158.700	0.00	19.80	29.76

REMARKS

COORDINATES
STARTING -

NORTHING

TOOL RUNS:
DDA:NN2, WRS, Wbst, VS4, SGD

SEARCH WALL CONDITIONS - POOR
BORE HOLE COND - POOR

FLOWING WELL

WELL WAS LOADED OFF OF RIG. LOGGED ON 3 SEPARATE DAYS.

ON FIRST ATTEMPT OF LOGGING HOLE HAD CAVED IN AND LOST THE BOTTOM 90M. LOGGED FULL SUITE FROM 441.60M (SPMETER MAX DEPTH) AND AT 442.5M (MAX DEPTH). THIS AFFECTED THE LOG IN A FEW AREAS. NO REPEAT RUN DUE TO THE CONDITIONS

SECOND ATTEMPT WAS THROUGH ROOS. NO MAJOR PROBLEMS

THIRD ATTEMPT WAS AFTER THE CLEANOUT IN AN EFFORT TO GET THE BOTTOM 90M OPEN HOLE. FE MADE IT TO 524.20 AS DID DDA VS4 ONLY GOT TO 498. CLIENT ADVISED TO COMPLETE VERT RUN AND PULL OUT OF HOLE.

SOME LOGS WILL HAVE VARYING DEPTHS DUE TO NN2, DIP, AND WSI ONLY BEING LOGGED FROM 441.

Verticality Analysis Interpretation Notes

23-SEP-2009 14:43

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(horizontal) and 1:4000(vertical).

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metre/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects. Such effects are usually caused by ferrous casing (or other ferrous metallic objects). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross section for the entire field).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT, AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\Nogal\Consul\BNRAV09-038\VE4-238-M.dta

All Co-ordinates With Respect To True North, all depths in metres

Final Depth = 11.98, 0.00 North, 0.00 East of Origin

Date Processed 23-SEP-2009
Date Logged 23-SEP-2009

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR	
Log	True	Tilt	Azi	North	East	Rng	Radian
6.00	6.00	0.44	138.9	-0.02	-0.01	.195	-0.02
7.00	7.00	0.44	138.9	-0.02	-0.01	.195	-0.02
19.00	19.00	0.44	216.0	-0.01	-0.03	.103	-0.01
21.00	21.00	0.00	198.1	0.01	0.03	.77	0.03
23.00	23.00	0.44	198.1	0.00	0.02	.000	0.00
31.00	31.00	0.88	181.1	-0.05	0.01	.91	0.01
36.00	36.00	0.93	131.9	-0.05	0.04	.142	0.06
41.00	41.00	0.97	37.0	-0.00	0.07	.89	0.11
46.00	46.00	0.93	43.2	-0.02	0.11	.96	0.17
51.00	51.00	0.93	43.2	-0.02	0.14	.99	0.22
56.00	55.90	1.13	171.1	-0.04	0.17	.98	0.28
61.00	60.99	1.13	187.7	-0.13	0.32	.107	0.33
66.00	65.98	1.13	187.7	-0.23	0.47	.116	0.39
71.00	70.97	1.18	159.1	-0.31	0.61	.137	0.52
76.00	75.95	1.13	166.7	-0.42	0.74	.132	0.63
81.00	80.94	1.13	166.7	-0.52	0.87	.151	0.74
85.00	85.93	0.88	162.5	-0.64	0.96	.136	0.86
91.00	90.98	1.18	170.1	-0.75	0.62	.140	0.98
96.00	95.97	1.13	167.5	-0.86	0.68	.142	1.10
101.00	100.96	1.13	171.1	-0.97	0.73	.145	1.21
106.00	105.95	1.18	173.5	-1.09	0.77	.151	1.33
111.00	110.94	1.13	147.2	-1.24	0.85	.148	1.52
116.00	115.93	1.13	148.5	-1.36	0.89	.147	1.63
121.00	120.92	1.13	163.6	-1.47	0.94	.150	1.74
126.00	125.91	1.13	163.7	-1.56	1.01	.147	1.88
131.00	130.91	1.13	163.6	-1.70	1.06	.146	2.00
136.00	135.90	1.13	171.1	-1.83	1.11	.148	2.13
141.00	140.87	0.93	171.1	-1.94	1.17	.145	2.26
146.00	145.96	1.13	178.7	-2.05	1.21	.149	2.38
151.00	150.95	1.13	178.7	-2.16	1.22	.150	2.49
156.00	155.94	1.13	178.7	-2.27	1.23	.151	2.61
161.00	160.96	1.18	170.0	-2.39	1.36	.150	2.75
166.00	165.96	1.13	160.6	-2.50	1.41	.157	2.87
171.00	170.96	1.18	162.0	-2.61	1.45	.151	2.99
176.00	175.95	1.13	162.0	-2.72	1.51	.150	3.11
181.00	180.94	1.18	168.5	-2.83	1.55	.151	3.23
186.00	185.95	1.13	170.2	-2.97	1.61	.152	3.38
191.00	190.94	1.13	170.2	-3.08	1.67	.152	3.50
196.00	195.95	1.13	168.5	-3.21	1.72	.152	3.63
201.00	200.95	1.18	165.9	-3.33	1.79	.152	3.76
206.00	205.94	1.13	165.9	-3.46	1.86	.152	3.89
211.00	210.94	1.13	166.8	-3.57	1.93	.153	4.01
216.00	215.94	1.13	175.1	-3.68	1.98	.153	4.14
221.00	220.94	1.13	172.7	-3.81	1.91	.226	4.26
226.00	225.94	1.13	169.8	-3.93	1.95	.154	4.39
231.00	230.94	1.13	169.8	-4.05	2.00	.154	4.51
236.00	235.93	1.13	173.1	-4.16	2.04	.154	4.64
241.00	240.93	1.13	164.6	-4.28	2.07	.154	4.76
246.00	245.93	1.13	167.2	-4.39	2.12	.154	4.88
251.00	250.93	1.13	169.8	-4.52	2.16	.154	5.01
256.00	255.93	1.18	170.1	-4.65	2.20	.155	5.14
261.00	260.93	1.13	170.1	-4.77	2.24	.155	5.26
266.00	265.93	1.13	164.9	-4.88	2.29	.155	5.39
271.00	270.92	1.13	171.2	-5.00	2.32	.155	5.51
276.00	275.92	1.13	168.1	-5.12	2.36	.155	5.64
281.00	280.92	1.13	179.8	-5.25	2.40	.155	5.77
286.00	285.92	1.13	179.8	-5.38	2.40	.155	5.89
291.00	290.92	1.13	178.5	-5.44	2.40	.156	6.01
296.00	295.91	1.13	187.2	-5.60	2.52	.156	6.14
301.00	300.91	1.13	187.2	-5.73	2.57	.156	6.26
306.00	305.91	1.13	182.9	-5.84	2.60	.156	6.39
311.00	310.91	1.13	182.0	-5.96	2.64	.156	6.52
316.00	315.91	1.13	175.1	-6.07	2.69	.156	6.64
321.00	320.91	1.13	171.2	-6.18	2.71	.156	6.76
326.00	325.90	1.13	175.6	-6.30	2.75	.156	6.88
331.00	330.90	1.13	180.9	-6.42	2.78	.156	7.00
336.00	335.90	1.13	178.4	-6.54	2.80	.157	7.11
341.00	340.90	1.13	178.7	-6.67	2.83	.157	7.24
346.00	345.90	1.13	177.8	-6.76	2.85	.157	7.35
351.00	350.90	1.18	184.1	-6.87	2.85	.157	7.47
356.00	355.90	1.13	184.1	-6.98	2.84	.157	7.59
361.00	360.90	1.13	184.1	-7.10	2.83	.157	7.71
366.00	365.89	1.18	187.3	-7.22	3.03	.157	7.83
371.00	370.89	1.13	187.3	-7.34	3.12	.157	7.95
376.00	375.89	1.13	175.7	-7.45	3.15	.157	8.07
381.00	380.89	1.18	187.7	-7.57	3.12	.158	8.19
386.00	385.89	1.13	187.7	-7.69	3.11	.158	8.31
391.00	390.88	1.13	187.7	-7.81	3.15	.158	8.43
396.00	395.88	1.13	191.6	-7.93	3.19	.158	8.55
401.00	400.88	1.13	178.3	-8.06	3.22	.158	8.68
406.00	405.88	1.13	182.6	-8.18	3.25	.158	8.80
411.00	410.88	1.13	182.6	-8.31	3.27	.158	8.92
416.00	415.88	1.13	186.9	-8.44	3.30	.159	9.06
421.00	420.88	1.13	190.1	-8.57	3.31	.159	9.19
426.00	425.87	1.13	191.7	-8.69	3.32	.159	9.31
431.00	430.87	1.13	191.7	-8.82	3.35	.159	9.44
436.00	435.87	1.13	184.1	-8.95	3.38	.159	9.57
441.00	440.87	1.13	184.1	-9.07	3.40	.159	9.69
446.00	445.87	1.13	186.7	-9.19	3.44	.159	9.80
451.00	450.87	1.13	187.7	-9.29	3.48	.159	9.92
456.00	455.86	1.13	187.7	-9.39	3.52	.159	10.03
461.00	460.86	1.17	178.0	-9.51	3.57	.159	10.16

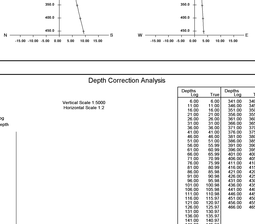
Cross Section

All Figures are Log Depths in metres

Target Origin Depth 1.10
Least Plotted Depth 466.00
Horizontal Scale 1:1 in multiples of 50
Final Depth Marker at 50
Last Depth Marker at 400

Plot With Respect to True North

Scale 1:200
Declination 18.1 deg East



Final Borehole Position

The last plotted depth is at
0.10 metres North
3.57 metres East
or 10.16 metres from the origin
159 deg from True North

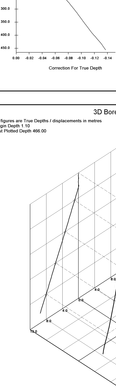
Vertical Sections

North-South Section

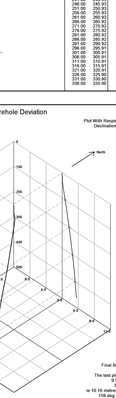
(True Depth vs Displacement)

Vertical Scale 1:5000
Horizontal Scale 1:100

Markers annotated as above

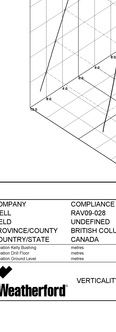


East-West Section



Depth Correction Analysis

Vertical Scale 1:5000
Horizontal Scale 1:2



Depths Log	Depths True	Depths Log	Depths True
4.00	4.00	340.00	340.00
11.00	11.00	345.00	345.00
19.00	19.00	352.00	352.00
21.00	21.00	359.00	359.00
26.00	26.00	361.00	360.99
31.00	31.00	366.00	365.99
36.00	36.00	371.00	370.99
41.00	41.00	376.00	375.99
46.00	46.00	381.00	380.99
51.00	51.00	386.00	385.99
56.00	55.99	391.00	390.99
61.00	60.99	396.00	395.99
66.00	65.99	401.00	400.98
71.00	70.99	406.00	405.98
76.00	75.99	411.00	410.98
81.00	80.99	416.00	415.98
86.00	85.98	421.00	420.98
91.00	90.98	426.00	425.98
96.00	95.98	431.00	430.97
101.00	100.98	436.00	435.97
106.00	105.98	441.00	440.97
111.00	110.98	446.00	445.97
116.00	115.98	451.00	450.97
121.00	120.97	456.00	455.96
126.00	125.97	466.00	465.96
131.00	130.97		
136.00	135.97		
141.00	140.97		
146.00	145.96		
151.00	150.96		
156.00	155.96		
161.00	160.96		
166.00	165.96		
171.00	170.96		
176.00	175.96		
181.00	180.96		
186.00	185.96		
191.00	190.95		
196.00	195.95		
201.00	200.95		
206.00	205.95		
211.00	210.94		
216.00	215.94		
221.00	220.94		
226.00	225.94		
231.00	230.94		
236.00	235.94		
241.00	240.94		
246.00	245.93		
251.00	250.93		
256.00	255.93		
261.00	260.93		
266.00	265.93		
271.00	270.93		
276.00	275.92		
281.00	280.92		
286.00	285.92		
291.00	290.92		
296.00	295.91		
301.00	300.91		
306.00	305.91		
311.00	310.91		
316.00	315.91		
321.00	320.91		
326.00	325.90		
331.00	330.90		
336.00	335.90		

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth 1.10
Last Plotted Depth 466.00

Plot With Respect to True North
Declination 18.1 deg East

COMPOSITE COAL LOG

COMPANY COMPLIANCE COAL CORP
WELL RAVIR-029
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA
Latitude 49.7000000000
Longitude -124.9333333333
Datum NAD83
Projection/Zone UTM Zone 10N
Elevation KB 0.00 metres
Elevation GL 0.00 metres
Date Drilled 2012/04/12
Time Drilled 0000/00/00
Total Depth 396.00 metres
Drilling Company WESTCAST DRILLING
Drilling Method ROTARY
Drilling Fluid AIR
Hole Size 152.400 millimeters
Casing Size 139.700 millimeters
Casing Depth 0.00 metres
Logged Interval 0.00 - 396.00 metres
Log Type DIGITAL
Log Date 2012/04/12
Log Time 0000/00/00
Log Number 1
Recorded By Geologist
Witnessed By Company Rep
Equipment Number 1
Equipment Location Vancouver
Equipment Type Mobile Lab
Equipment Serial Number 1
Equipment Manufacturer Weatherford
Equipment Model Number Mobile Lab
Equipment Description Mobile Lab
Equipment Calibration Date 2012/04/12
Equipment Calibration Time 0000/00/00
Equipment Calibration Type Factory
Equipment Calibration Number 1
Equipment Calibration Company Weatherford
Equipment Calibration Location Vancouver
Equipment Calibration Description Mobile Lab
Equipment Calibration Serial Number 1
Equipment Calibration Manufacturer Weatherford
Equipment Calibration Model Number Mobile Lab

Schlumberger

Field Print

Date	Time	Operation	Depth	Hole Size	Comments
2009-03-13	08:00	Arrive at Location			
	09:00	Rig Up			
	10:00	Run in Hole			
	11:00	Log Down	1,000		
	12:00	Log Up	1,000		
	13:00	Rig Down			
	14:00	Leave Location			

Comments

Logged with 1.25" Tools
Logged with 1.25" Tools
Logged with 1.25" Tools
Logged with 1.25" Tools

Equipment

Equipment: 1.25" Tools
Equipment: 1.25" Tools
Equipment: 1.25" Tools
Equipment: 1.25" Tools

Personnel

Operator: Jeff Hall
Operator: Jeff Hall
Operator: Jeff Hall
Operator: Jeff Hall

Log Header

Log Header: 1.25" Tools
Log Header: 1.25" Tools
Log Header: 1.25" Tools
Log Header: 1.25" Tools

Log Header: 1.25" Tools
Log Header: 1.25" Tools
Log Header: 1.25" Tools

COMPANY	COMPLIANCE COAL CORP		MINIPLOT
WELL	RAV09-029		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
LOC	SEC	TWP	RGE
Licence number			
Log Measured From: GROUND LEVEL above Permanent Datum			
Elevations: KB GL			metres
Other Services: YES/FULL/TIE			
Date: 01-AUG-2009			
Run Number	1		
Depth Driller	397.26		metres
Depth Logger	396.16		metres
First Reading	396.01		metres
Last Reading	0.00		metres
Casing Logger	19.70		metres
Bit Size	14.14		metres
Density / Viscosity			
Max Rec Temp			
Source Source			
Rm @ Measured Temp			
Rmf @ Measured Temp			
Rmc @ Measured Temp			
Rm @ BHT			
Rmf @ BHT			
Rmc @ BHT			
Time Since Circulation			
Max Recorded Temp			
Equipment / Base	1 1SSA		
Equipment Name			
Logging Unit	2		
Witnessed By	O CULLINGHAM		

DUAL FOCUSED ELECTRIC GAMMA RAY - CALIPER

COMPANY COMPLIANCE CORP
WELL 100/06-29-085-20W6/00
FIELD UNDERWOOD
PROVINCE/COUNTRY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Weatherford

DUAL FOCUSED ELECTRIC
GAMMA RAY - CALIPER

Service Order Number	00159	Field Number	00159
Service Date	4-Feb-2006	Operating Time	08:00 hrs
Service Unit Number	2-1-1-1

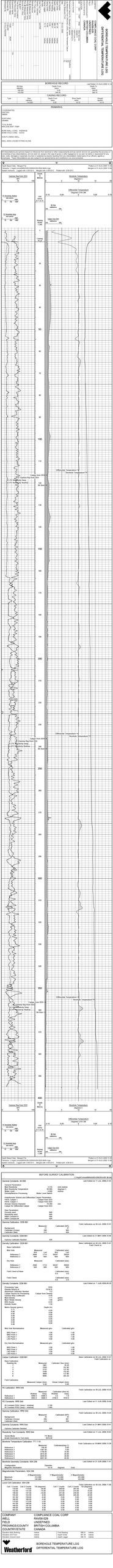
BOREHOLE TEMPERATURE LOG
DIFFERENTIAL TEMPERATURE LOG

COMPANY CARLSON
WELL 1
FIELD UNDERWIND
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA
Location 49 DEG 50 MIN 0 SEC N 114 DEG 0 MIN 0 SEC W
Logging Date 2008-12-01
Logging Unit 1
Operator Carlson Local
Max Temp 28.12 celsius
Max Gradient 0.00 celsius/m
Max Depth 28.12 celsius
Min Temp 0.00 celsius
Min Gradient 0.00 celsius/m
Min Depth 0.00 celsius

Weatherford

BOREHOLE TEMPERATURE LOG
DIFFERENTIAL TEMPERATURE LOG

COMPANY CARLSON
WELL 1
FIELD UNDERWIND
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA
Location 49 DEG 50 MIN 0 SEC N 114 DEG 0 MIN 0 SEC W
Logging Date 2008-12-01
Logging Unit 1
Operator Carlson Local
Max Temp 28.12 celsius
Max Gradient 0.00 celsius/m
Max Depth 28.12 celsius
Min Temp 0.00 celsius
Min Gradient 0.00 celsius/m
Min Depth 0.00 celsius


Differential Temperature
Reference Temperature
Depth
Metres
Casing Top 0.00 m
Casing Bottom 28.12 m
Casing Top 0.00 m
Casing Bottom 28.12 m
Casing Top 0.00 m
Casing Bottom 28.12 m

VERTICALITY ANALYSIS

COMPANY COMPLIANCE COAL CORP
WELL RAV09-029
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Weatherford

BOREHOLE RECORD

Last Edited: 01-AUG-2009 15:14

Bit Size millimetres	Drill Collar Length metres	Drill Pipe Length metres
152.00	34.00	0.00
152.00	34.00	0.00

Depth: 0 metres

CASING RECORD

Type	Size millimetres	Depth Set metres	Shoe Depth metres	Weight kg/metre
	114.300	0.00	18.00	14.14

REMARKS

COORDINATES
SECTION3
BRISK
NORTHING
-3448892

TOOL NAME
WELLDOCSBRT.TEMP

Stream WELL COND - AVERAGE
WORK HOLE COND - GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

Verticality Analysis Interpretation Notes

01-AUG-2009 15:15

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1.10000(plan) and 1.48000(cross), and the minimum 1.00.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metre/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed vertically may only be fully derived in open sections of the borehole, away from the influence of any physical magnetic anomaly. Within such a zone, the quality of the data may be affected by magnetic interference. So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to two cross sections may be requested for any borehole to be displayed at any scale. (the default scale is that of the cross section for the entire hole)

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH The depth recorded on the field logs for the borehole.

TRUE DEPTH The true vertical depth corresponding to the above depth. Corrected from the start of the survey if required.

HOLE TILT AND AZIMUTH The sampled borehole orientation.

ABNL COORDINATES The coordinates North and East from the target origin.

POLAR COORDINATES The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

F:\logs\Compliance\RAV09-029\RAV09_2009-08.dip

Project: UNDEFINED
Company: COMPLIANCE COAL CORP
Date Processed: 01-AUG-2009
Date Logged:30-Jul-09 0100hrs0900

LOG DEPTH	BOREHOLE TILT	AZIMUTH	ABNL COORDS NORTH	ABNL COORDS EAST	POLAR Rng	POLAR Brg	POLAR Radius
10.00	10.00	1.5	10.00	0.00	0.00	0.00	0.00
12.00	12.00	1.2	12.00	-0.01	0.01	0.00	0.01
14.00	14.00	1.2	14.00	-0.01	0.01	0.00	0.01
16.00	16.00	1.2	16.00	-0.01	0.01	0.00	0.01
18.00	18.00	1.2	18.00	-0.01	0.01	0.00	0.01
20.00	20.00	1.3	19.99	-0.08	0.25	107	0.26
22.00	22.00	1.3	21.99	-0.16	0.49	108	0.51
24.00	24.00	1.3	23.98	-0.24	0.73	109	0.77
26.00	26.00	1.3	25.98	-0.32	0.97	110	1.03
28.00	28.00	1.3	27.97	-0.41	1.22	111	1.29
30.00	30.00	1.3	29.96	-0.49	1.46	112	1.55
32.00	31.99	1.2	31.96	-0.56	1.69	113	1.81
34.00	33.99	1.2	33.95	-0.63	1.91	114	2.06
36.00	35.99	1.2	35.94	-0.70	2.13	115	2.31
38.00	37.99	1.2	37.93	-0.77	2.35	116	2.56
40.00	39.99	1.2	39.92	-0.84	2.57	117	2.81
42.00	41.99	1.2	41.91	-0.91	2.79	118	3.06
44.00	43.99	1.2	43.90	-0.98	3.01	119	3.31
46.00	45.99	1.0	45.89	-1.04	3.22	120	3.55
48.00	47.99	1.0	47.88	-1.09	3.42	121	3.79
50.00	49.99	1.0	49.87	-1.14	3.62	122	4.03
52.00	51.99	1.0	51.86	-1.19	3.82	123	4.27
54.00	53.99	1.0	53.85	-1.24	4.02	124	4.51
56.00	55.99	1.0	55.84	-1.29	4.22	125	4.75
58.00	57.99	1.0	57.83	-1.34	4.42	126	4.99
60.00	59.99	1.0	59.82	-1.39	4.62	127	5.23
62.00	61.99	1.0	61.81	-1.44	4.82	128	5.47
64.00	63.99	1.0	63.80	-1.49	5.02	129	5.71
66.00	65.99	1.0	65.79	-1.54	5.22	130	5.95
68.00	67.99	1.0	67.78	-1.59	5.42	131	6.19
70.00	69.99	1.0	69.77	-1.64	5.62	132	6.43
72.00	71.98	1.0	71.76	-1.69	5.82	133	6.67
74.00	73.98	1.0	73.75	-1.74	6.02	134	6.91
76.00	75.98	1.0	75.74	-1.79	6.22	135	7.15
78.00	77.98	1.0	77.73	-1.84	6.42	136	7.39
80.00	79.98	1.0	79.72	-1.89	6.62	137	7.63
82.00	81.98	1.0	81.71	-1.94	6.82	138	7.87
84.00	83.98	1.0	83.70	-1.99	7.02	139	8.11
86.00	85.98	1.0	85.69	-2.04	7.22	140	8.35
88.00	87.98	1.0	87.68	-2.09	7.42	141	8.59
90.00	89.98	1.0	89.67	-2.14	7.62	142	8.83
92.00	91.98	1.0	91.66	-2.19	7.82	143	9.07
94.00	93.98	1.0	93.65	-2.24	8.02	144	9.31
96.00	95.98	1.0	95.64	-2.29	8.22	145	9.55
98.00	97.97	1.0	97.63	-2.34	8.42	146	9.79
100.00	99.97	1.0	99.62	-2.39	8.62	147	10.03
102.00	101.97	1.0	101.61	-2.44	8.82	148	10.27
104.00	103.97	1.0	103.60	-2.49	9.02	149	10.51
106.00	105.97	1.0	105.59	-2.54	9.22	150	10.75
108.00	107.97	1.0	107.58	-2.59	9.42	151	10.99
110.00	109.97	1.0	109.57	-2.64	9.62	152	11.23
112.00	111.97	1.0	111.56	-2.69	9.82	153	11.47
114.00	113.97	1.0	113.55	-2.74	10.02	154	11.71
116.00	115.96	1.0	115.54	-2.79	10.22	155	11.95
118.00	117.96	1.0	117.53	-2.84	10.42	156	12.19
120.00	119.96	1.0	119.52	-2.89	10.62	157	12.43
122.00	121.96	1.0	121.51	-2.94	10.82	158	12.67
124.00	123.96	1.0	123.50	-2.99	11.02	159	12.91
126.00	125.96	1.0	125.49	-3.04	11.22	160	13.15
128.00	127.96	1.0	127.48	-3.09	11.42	161	13.39
130.00	129.96	1.0	129.47	-3.14	11.62	162	13.63
132.00	131.96	1.0	131.46	-3.19	11.82	163	13.87
134.00	133.96	1.0	133.45	-3.24	12.02	164	14.11
136.00	135.96	1.0	135.44	-3.29	12.22	165	14.35
138.00	137.96	1.0	137.43	-3.34	12.42	166	14.59
140.00	139.96	1.0	139.42	-3.39	12.62	167	14.83
142.00	141.96	1.0	141.41	-3.44	12.82	168	15.07
144.00	143.96	1.0	143.40	-3.49	13.02	169	15.31
146.00	145.96	1.0	145.39	-3.54	13.22	170	15.55
148.00	147.96	1.0	147.38	-3.59	13.42	171	15.79
150.00	149.96	1.0	149.37	-3.64	13.62	172	16.03
152.00	151.96	1.0	151.36	-3.69	13.82	173	16.27
154.00	153.96	1.0	153.35	-3.74	14.02	174	16.51
156.00	155.96	1.0	155.34	-3.79	14.22	175	16.75
158.00	157.96	1.0	157.33	-3.84	14.42	176	16.99
160.00	159.96	1.0	159.32	-3.89	14.62	177	17.23
162.00	161.73	0.0	161.69	-3.93	14.66	177	17.47
164.00	163.73	0.0	163.69	-3.93	14.66	177	17.71
166.00	165.73	0.0	165.69	-3.93	14.66	177	17.95
168.00	167.73	0.0	167.69	-3.93	14.66	177	18.19
170.00	169.73	0.0	169.69	-3.93	14.66	177	18.43
172.00	171.73	0.0	171.69	-3.93	14.66	177	18.67
174.00	173.73	0.0	173.69	-3.93	14.66	177	18.91
176.00	175.73	0.0	175.69	-3.93	14.66	177	19.15
178.00	177.73	0.0	177.69	-3.93	14.66	177	19.39
180.00	179.73	0.0	179.69	-3.93	14.66	177	19.63
182.00	181.73	0.0	181.69	-3.93	14.66	177	19.87
184.00	183.73	0.0	183.69	-3.93	14.66	177	20.11
186.00	185.73	0.0	185.69	-3.93	14.66	177	20.35
188.00	187.73	0.0	187.69	-3.93	14.66	177	20.59
190.00	189.73	0.0	189.69	-3.93	14.66	177	20.83
192.00	191.73	0.0	191.69	-3.93	14.66	177	21.07
194.00	193.73	0.0	193.69	-3.93	14.66	177	21.31
196.00	195.73	0.0	195.69	-3.93	14.66	177	21.55
198.00	197.73	0.0	197.69	-3.93	14.66	177	21.79
200.00	199.73	0.0	199.69	-3.93	14.66	177	22.03
202.00	201.56	0.7	201.52	-3.91	15.05	228	22.17
204.00	203.56	0.7	203.52	-3.89	15.45	228	22.31
206.00	205.56	0.7	205.52	-3.87	15.85	228	22.45
208.00	207.53	0.3	207.49	-3.86	16.24	228	22.59
210.00	209.53	0.3	209.49	-3.85	16.64	228	22.73
212.00	211.53	0.3	211.49	-3.84	17.04	228	22.87
214.00	213.53	0.3	213.49	-3.83	17.44	228	23.01
216.00	215.53	0.3	215.49	-3.82	17.84	228	23.15
218.00	217.53	0.3	217.49	-3.81	18.24	228	23.29
220.00	219.53	0.3	219.49	-3.80	18.64	228	23.43
222.00	221.53	0.3	221.49	-3.79	19.04	228	23.57
224.00	223.53	0.2	223.49	-3.78	19.44	228	23.71
226.00	225.53	0.2	225.49	-3.77	19.84	228	23.85
228.00	227.53	0.2	227.49	-3.76	20.24	228	23.99
230.00	229.53	0.2	229.49	-3.75	20.64	228	24.13
232.00	231.53	0.2	231.49	-3.74	21.04	228	24.27
234.00	233.53	0.2	233.49	-3.73	21.44	228	24.41
236.00	235.53	0.2	235.49	-3.72	21.84	228	24.55
238.00	237.53	0.2	237.49	-3.71	22.24	228	24.69
240.00	239.53	0.2	239.49	-3.70	22.64	228	24.83
242.00	241.53	0.2	241.49	-3.69	23.04	228	24.97
244.00	243.53	0.2	243.49	-3.68	23.44	228	25.11
246.00	245.53	0.2	245.49	-3.67	23.84	228	25.25
248.00	247.53	0.2	247.49	-3.66	24.24	228	25.39
250.00	249.53	0.2	249.49	-3.65	24.64	228	25.53
252.00	251.53	0.2	251.49	-3.64	25.04	228	25.67
254.00	253.53	0.2	253.49	-3.63	25.44	228	25.81
256.00	255.53	0.2	255.49	-3.62	25.84	228	25.95
258.00	257.53	0.3	257.49	-3.60	26.24	228	26.09
260.00	259.53	0.3	259.49	-3.58	26.64	228	26.23
262.00	261.53	0.3	261.49	-3.57	27.04	228	26.37
264.00	263.53	0.3	263.49	-3.55	27.44	228	26.51
266.00	265.53	0.3	265.49	-3.53	27.84	228	26.65
268.00	267.53	0.3	267.49	-3.51	28.24	228	26.79
270.00	269.53	0.3	269.49	-3.49	28.64	228	26.93
272.00	271.53	0.3	271.49	-3.47	29.04	228	27.07
274.00	273.53	0.3	273.49	-3.45	29.44	228	27.21
276.00	275.53	0.3	275.49	-3.43	29.84	228	27.35
278.00	277.53	0.3	277.49	-3.41	30.24	228	27.49
280.00	279.53	0.3	279.49	-3.39	30.64	228	27.63
282.00	281.53	0.3	281.49	-3.37	31.04	228	27.77
284.00	283.53	0.3	283.49	-3.35	31.44	228	27.91
286.00	285.53	0.3	285.49	-3.33	31.84	228	28.05
288.00	287.53	0.3	287.49	-3.31	32.24	228	28.19
290.00	289.53	0.3	289.49	-3.29	32.64	228	28.33
292.00	291.53	0.3	291.49	-3.27	33.04	228	28.47
294.00	293.53	0.3	293.49	-3.25	33.44	228	28.61
296.00	295.53	0.3	295.49	-3.23	33.84	228	28.75
298.00	297.53	0.3	297.49	-3.21	34.24	228	28.89
300.00	299.53	0.3	299.49	-3.19	34.64	228	29.03
302.00	301.53	0.3	301.49	-3.17	35.04	228	29.17
304.00	303.53	0.3	303.49	-3.15	35.44	228	29.31
306.00	305.53	0.3	305.49	-3.13	35.84	228	29.45
308.00	307.53	0.3	307.49	-3.11	36.24	228	29.59
310.00	309.53	0.3	309.49	-3.09	36.64	228	29.73
312.00	311.53	0.3	311.49	-3.07	37.04	228	29.87
314.00	313.53	0.3	313.49	-3.05	37.44	228	30.01
316.00	315.53	0.3	315.49	-3.03	37.84	228	30.15
318.00	317.53	0.3	317.49	-3.01	38.24	228	30.29
320.00	319.53	0.3	319.49	-2.99	38.64	228	30.43
322.00	321.53	0.3	321.49	-2.97	39.04	228	30.57
324.00	323.53	0.3	323.49	-2.95	39.44	228	30.71
326.00	325.53	0.3	325.49	-2.93	39.84	228	30.85
328.00	327.53	0.3	327.49	-2.91	40.24	228	30.99
330.00	329.53	0.3	329.49	-2.89	40.64	228	31.13
332.00	331.53	0.3	331.49	-2.87	41.04	228	31.27
334.00	333.53	0.3	333.49	-2.85	41.44	228	31.41
336.00	335.53	0.3	335.49	-2.83	41.84	228	31.55
338.00	337.53	0.3	337.49	-2.81	42.24	228	31.69
340.00	339.53	0.3	339.49	-2.79	42.64	228	31.83
342.00	341.53	0.3	341.49	-2.77	43.04	228	31.97
344.00	343.53	0.3	343.49	-2.75	43.44	228	32.11
346.00	345.53	0.3	345.49	-2.73	43.84	228	32.25
348.00	347.53	0.3	347.49	-2.71	44.24	228	32.39
350.00	349.53	0.3	349.49	-2.69	44.64	228	32.53
352.00	351.53	0.3	351.49	-2.67	45.04	228	32.67
354.00	353.53	0.3	353.49	-2.65	45.44	228	32.81
356.00	355.53	0.3	355.49	-2.63	45.84	228	32.95
358.00	357.53	0.3	357.49	-2.61	46.24	228	33.09
360.00	359.53	0.3	359.49	-2.59	46.64	228	33.23
362.00	361.53	0.3	361.49	-2.57	47.04	228	33.37
364.00	363.53	0.3	363.49	-2.55	47.44	228	33.51
366.00	365.53	0.3	365.49	-2.53	47.84	228	33.65
368.00	367.53	0.3	367.49	-2.51	48.24	228	33.79
370.00	369.53	0.3	369.49	-2.49	48.64	228	33.93
372.00	371.53	0.3	371.49	-2.47	49.04	228	34.07
374.00	373.53	0.3	373.49	-2.45	49.44	228	34.21
376.00	375.53	0.3	375.49	-2.43	49.84	228	34.35
378.00	377.53	0.3	377.49	-2.41	50.24	228	34.49
380.00	379.53	0.3	379.49	-2.39	50.64	228	34.63
382.00	381.53	0.3	381.49	-2.37	51.04	228	34.77
384.00	383.53	0.3	383.49	-2.35	51.44	228	34.91
386.00	385.53	0.3	385.49	-2.33	51.84	228	35.05
388.00	387.53	0.3	387.49	-2.31	52.24	228	35.19
390.00	389.53	0.3	389.49	-2.29	52.64	228	35.33
392.00	391.53	0.3	391.49	-2.27	53.04	228	35.47
394.00	393.53	0.3	393.49	-2.25	53.44	228	35.61
396.00	395.53	0.3	395.49	-2.23	53.84	228	35.75
398.00	397.53	0.3	397.49	-2.21	54.24	228	35.89
400.00	399.53	0.3	399.49	-2.19	54.64	228	36.03
402.00	401.53	0.3	401.49	-2.17	55.04	228	36.17
404.00	403.53	0.3	403.49	-2.15	55.44	228	36.31
406.00	405.53	0.3	405.49	-2.13	55.84	228	36.45
408.00	407.53	0.3	407.49	-2.11	56.24	228	36.59
410.00	409.53	0.3	409.49	-2.09	56.64	228	36.73
412.00	411.53	0.3	411.49	-2.07	57.04	228	36.87
414.00	413.53	0.3	413.49	-2.05	57.44	228	37.01
416.00	415.53	0.3	415.49	-2.03	57.84	228	37.15
418.00	417.53	0.3	417.49	-2.01	58.24	228	37.29
420.00	419.53	0.3	419.49	-1.99	58.64	228	37.43
422.00	421.53	0.3	421.49	-1.97	59.04	228	37.57
424.00	423.53	0.3	423.49	-1.95	59.44	228	37.71
426.00	425.53	0.3	425.49	-1.93	59.84	228	37.85
428.00	427.53	0.3	427.49	-1.91	60.24	228	37.99
430.00	429.53	0.3	429.49	-1.89	60.64	228	38.13
432.00	431.53	0.3	431.49	-1.87	61.04	228	38.27
434.00	433.53	0.3	433.49	-1.85	61.44	228	38.41
436.00	435.53	0.3	435.49	-1.83	61.84	228	38.55
438.00	437.53	0.3	437.49	-1.81	62.24	228	38.69
440.00	439.53	0.3	439.49	-1.79	62.64	228	38.83
442.00	441.53	0.3	441.49	-1.77	63.04	228	38.97
444.00	443.53	0.3	443.49	-1.75	63.44	228	39.11
446.00	445.53	0.3	445.49	-1.73	63.84	228	39.25
448.00	447.53	0.3	447.49	-1.71	64.24	228	39.39
450.00	449.53	0.3	449.49	-1.69	64.64	228	39.53
452.00	451.53	0.3	451.49	-1.67	65.04	228	39.67
454.00	453.53	0.3	453.49	-1.65	65.44	228	39.81
456.00	455.53	0.3	455.49	-1.63	65.84	228	39.95
458.00	457.53	0.3	457.49	-1.61	66.24	228	40.09
460.00	459.53	0.3	459.49	-1.59	66.64	228	40.23
462.00	461.53	0.3	461.49	-1.57	67.04	228	40.37
464.00	463.53	0.3	463.49	-1.55	67.44	228	40.51
466.00	465.53	0.3	465.49	-1.53	67.84	228	40.65
468.00	467.53	0.3	467.49	-1.51	68.24	228	40.79
470.00	469.53	0.3	469.49	-1.49	68.64	228	40.93
472.00	471.53	0.3	471.49	-1.47	69.04	228	41.07
474.00	473.53	0.3	473.49	-1.45	69.44	228	41.21
476.00	475.53	0.3	475.49	-1.43	69.84	228	41.35
478.00	477.53	0.3	477.49	-1.41	70.24	228	41.49
480.00	479.53	0.3	479.49	-1.39	70.64	228	41.63
482.00	481.53	0.3	481.49	-1.37	71.04	228	41.77
484.00	483.53	0.3	483.49	-1.35	71.44	228	41.91
486.00	485.53	0.3	485.49	-1.33	71.84	228	42.05
488.00	487.53	0.3	487.49	-1.31	72.24	228	42.19
490.00	489.53	0.3	489.49	-1.29	72.64	228	42.33
492.00	491.53	0.3	491.49	-1.27	73.04	228	42.47
494.00	493.53	0.3	493.49	-1.25	73.44	228	42.61
496.00	495.53	0.3	495.49	-1.23	73.84	228	42.75
498.00	497.53	0.3	497.49	-1.21	74.24	228	42.89
500.00	499.53	0.3	499.49	-1.19	74.64	228	43.03
502.00	501.53	0.3	501.49	-1.17	75.04	228	43.17
504.00	503.53	0.3	503.49	-1.15	75.44	228	43.31
506.00	505.53	0.3	505.49	-1.13	75.84	228	43.45
508.00	507.53	0.3	507.49	-1.11	76.24	228	43.59
510.00	509.53	0.3	509.49	-1.09	76.64	228	43.73
512.00	511.53	0.3	511.49	-1.07	77.04	228	43.87
514.00	513.53	0.3	513.49	-1.05	77.44	228	44.01
516.00	515.53	0.3	515.49	-1.03	77.84	228	44.15
518.00	517.53	0.3	517.49	-1.01	78.24	228	44.29
520.00	519.53	0.3	519.49	-0.99	78.64	228	44.43
522.00	521.53	0.3	521.49	-0.97	79.04	228	44.57
524.00	523.53	0.3	523.49	-0.95	79.44	228	44.71
526.00	525.53	0.3	525.49	-0.93	79.84	228	44.85
528.00	527.53	0.3	527.49	-0.91	80.24	228	44.99
530.00	529.53	0.3	529.49	-0.89	80.64	228	45.13
532.00	531.53	0.3	531.49	-0.87	81.04	228	45.27
534.00	533.53	0.3	533.49	-0.85	81.44	228	45.41
536.00	535.53	0.3	535.49	-0.83	81.84	228	45.55
538.00	537.53	0.3	537.49	-0.81	82.24	228	45.69
540.00	539.53	0.3	539.49	-0.79	82.64	228	45.83
542.00	541.53	0.3	541.49	-0.77	83.04	228	45.97
544.00	543.53	0.3	543.49	-0.75	83.44	228	46.11
546.00	545.53	0.3	545.49	-0.73	83.84	228	46.25
548.00	547.53	0.3	547.49	-0.71	84.24	228	46.39
550.00	549.53	0.3	549.49	-0.69	84.64	228	46.53
552.00	551.53	0.3	551.49	-0.67	85.04	228	46.67
554.00	553.53	0.3	553.49	-0.65	85.44	228	46.81
556.00	555.53	0.3	555.49	-0.63	85.84	228	46.95
558.00	557.53	0.3	557.49	-0.61	86.24	228	47.09
560.00	559.53	0.3	559.49	-0.59	86.64	228	47.23
562.00	561.53	0.3	561.49	-0.57	87.04	228	47.37
564.00	563.53	0.3	563.49	-0.55	87.44	228	47.51
566.00	565.53	0.3	565.49	-0.53	87.84	228	47.65
568.00	567.53	0.3	567.49	-0.51	88.24	228	47.79
570.00	569.53	0.3	569.49	-0.49	88.64	228	47.93
572.00	571.53	0.3	571.49	-0.47	89.04	228	48.07
574.00	573.53	0.3	573.49	-0.45	89.44	228	48.21
576.00	575.53	0.3	575.49	-0.43	89.84	228	48.35
578.00	577.53	0.3	577.49	-0.41	90.24	228	48.49
580.00	579.53	0.3	579.49	-0.39	90.64	228	48.63
582.00	581.53	0.3	581.49	-0.37	91.04	228	48.77
584.00	583.53	0.3	583.49	-0.35	91.44	228	48.91
586.00	585.53	0.3	585.49	-0.33	91.84	228	49.05
588.00	587.53	0.3	587.49	-0.31	92.24	228	49.19
590.00	589.53	0.3	589.49	-0.29	92.64	228	49.33
592.00	591.53	0.3	591.49	-0.27	93.04	228	49.47
594.00	593.53	0.3	593.49	-0.25	93.44	228	49.61
596.00	595.53	0.3	595.49	-0.23	93.84	228	49.75
598.00	597.53	0.3	597.49	-0.21	94.24	228	49.89
600.00	599.53	0.3	599.49	-0.19	94.64	228	50.03
602.00	601.53	0.3	601.49	-0.17	95.04	228	50.17
604.00	603.53	0.3	603.49	-0.15	95.44	228	50.31
606.00	605.53	0.3	605.49	-0.13	95.84	228	50.45
608.00	607.53	0.3	607.49	-0.11	96.24	228	50.59
610.00	609.53	0.3	609.49	-0.09	96.64	228	50.73
612.00	611.53	0.3	611.49	-0.07	97.04	228	50.87
614.00	613.53	0.3	613.49	-0.05	97.44	228	51.01
616.00	615.53	0.3	615.49	-0.03	97.84	228	51.15
618.00	617.53	0.3	617.49	-0.01	98.24	228	51.29
620.00	619.53	0.3	619.49	0.01	98.64	0	51.43
622.00	621.53	0.3	621.49	0.03	99.04	0	51.57
624.00	623.53	0.3	623.49	0.

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-030
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

LSD | SEC | TWP | RGE | Other Services

Licence Number

Permanent Datum: GL, Elevation: NA metres

Log Measured From: GROUND LEVEL, 1.00 metres above Permanent Datum

Drilling Measured From: GL

Elevations: KB metres, DF metres, GL metres

Date	23-JUL-2009
Run Number	1
Depth Driller	77.40 metres
Depth Logger	77.00 metres
First Reading	77.00 metres
Last Reading	0.00 metres
Casing Driller	9.10 metres
Casing Logger	9.20 metres
Bit Size	metres
Hole Fluid Type	WATER
Density / Viscosity	
Source of Sample	
Rm @ Measured Temp	
Rmf @ Measured Temp	
Rmc @ Measured Temp	
Rm @ BHT / Time	
Time Since Circulation	
Max Recorded Temp	
Equipment / Base	ALL
Equipment / Serial No.	
Recorded By	L. OLIVER 11598 RGR
Witnessed By	O.CULLINGHAM

BOREHOLE RECORD

Last Edited: 23-JUL-2009 22:47

Bit Size millimetres	Depth From metres	Depth To metres
113.000	0.00	9.20
108.000	9.20	77.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	113.000	0.00	9.20	25.30

REMARKS

COORDINATES:
EASTING: 362280

NORTHING: 5487600

TOOL RUNS:
RR5,DD6,VERT, SONIC

BORE WALL COND. : GOOD
BORE HOLE COND. : GOOD

NON-FLOWING WELL

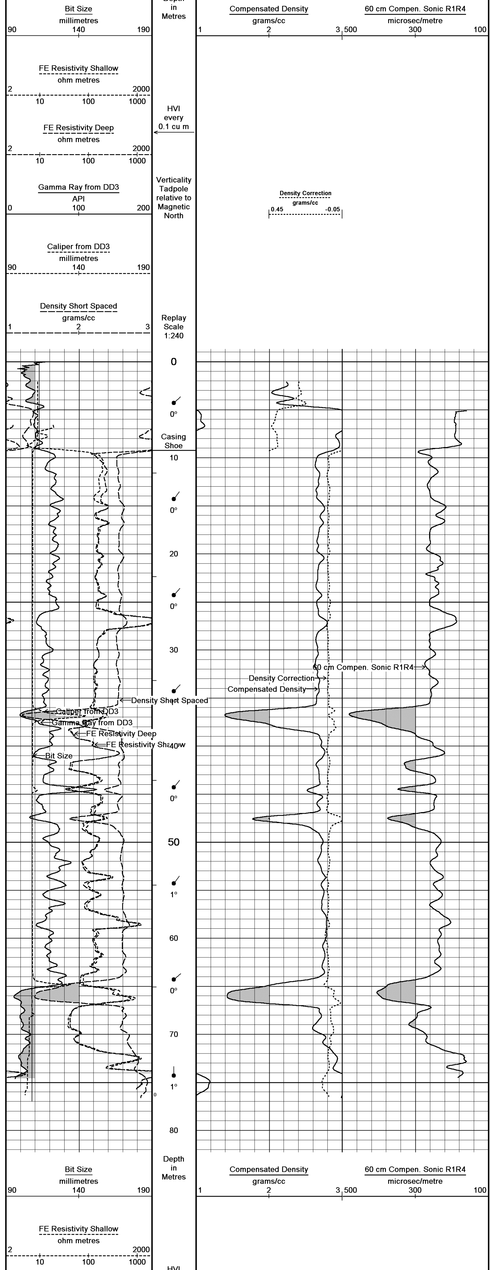
WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made byany of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

COMPOSITE LOG 1:240

Depth Based Data - Merged File
Filename: C:\logs\Comox09\RAV09-030\RAV09-030-M.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 24-JUL-2009 00:04
Merged on 23-JUL-2009 23:09



Depth Based Data - Merged File
Filename: C:\logs\Comox09\RAV09-030\RAV09-030-M.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 24-JUL-2009 00:04
Merged on 23-JUL-2009 23:09

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-030
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	77.00	metres
Elevation Drill Floor	metres	Depth Driller	77.40	metres
Elevation Ground Level	metres	Depth Logger	77.00	metres

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COMPOSITE COAL LOG

COAL DATA PLOT
GAMMA RAY, CALIPER
COAL DETAIL, COAL LITHOLOGY

COMPANY COMPLIANCE CORL CORP
WELL INVER-E03
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY CANADA

Weatherford

COAL LITHOLOGY
GAMMA RAY, CALIPER
COAL DETAIL ZONES

BOREHOLE RECORD

Bit Size (in)	From (m)	To (m)
14.00	0.00	12.19
11.00	12.19	1.00

CASING RECORD

Size (in)	Weight (kg/m)	Grade	Thread	From (m)	To (m)
10.75	40.50	J55	STC	0.00	12.19

Total Depth (Driller): 1.00 m
Total Depth (Logger): 1.00 m
Bottom Log Interval: 1.00 m
Top Log Interval: 0.00 m
Open Hole Fluid Type: NONE
Open Hole Fluid Level: Full
Max Rec Temp: 0.0 C
Equipment: Logging Truck
Location: Logging Truck
Recorded By: Brian Lewis
Witnessed By: Mr. Bill Ostrom

REMARKS

CONTRACTOR
CONTRACTOR

CASING SHOE:

COIL PLAN
BOREHOLE TRAVELLING

NOMS WELL LOSS: 12.00
NOMS WELL GAIN: 0.00

NOMS WELL LOSS (STAND ALONE): 12.00

NOMS WELL GAIN (STAND ALONE): 0.00

all measurements are standard distances unless otherwise specified. all other values measured are actual. unless specified, all logs are recorded depth vs time. all tools are run in accordance with the manufacturer's specifications. all tools are run in accordance with weatherford's quality assurance program. all logging operations are performed in accordance with weatherford's operating procedures. all interpretations are opinions based on inferences from electrical or other measurements and we cannot, therefore, guarantee or warrant the accuracy, correctness or completeness of any interpretation. we shall not be liable for any loss, damage or expense incurred by the owner in connection with any interpretation, service or product furnished by us under this agreement, except in the case of gross negligence or willful misconduct.

MAIN LOG 1:240

Gamma Ray (API) — Caliper (in) — Density Correction (g/cm3) — Compensated Density (g/cm3) — Density Porosity (%) — Neutron Porosity (%) — Bit Size (in) — Casing Size (in) — Depth (m)

Total Depth (Driller): Weight:0 lb
Total Depth (Logger): Weight:0 lb
Bottom Log Interval: Length:0.00 m
Top Log Interval: Length:0.00 m

Prepared by: Brian Lewis
Witnessed by: Mr. Bill Ostrom
Prepared on: 2011-02-15
Witnessed on: 2011-02-15

REPEAT SECTION

Gamma Ray (API) — Caliper (in) — Density Correction (g/cm3) — Compensated Density (g/cm3) — Density Porosity (%) — Neutron Porosity (%) — Bit Size (in) — Casing Size (in) — Depth (m)

Total Depth (Driller): Weight:0 lb
Total Depth (Logger): Weight:0 lb
Bottom Log Interval: Length:0.00 m
Top Log Interval: Length:0.00 m

Prepared by: Brian Lewis
Witnessed by: Mr. Bill Ostrom
Prepared on: 2011-02-15
Witnessed on: 2011-02-15

COAL DETAIL 1:20

Gamma Ray (API) — Caliper (in) — Density Correction (g/cm3) — Compensated Density (g/cm3) — Density Porosity (%) — Neutron Porosity (%) — Bit Size (in) — Casing Size (in) — Density Neutron Separation (%) — Density Neutron Separation (%) — Density Neutron Separation (%) — Density Neutron Separation (%

| | | |

DUAL MINIPLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-030
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

LOCATION			
LSD	SEC	TWP	RGE
			Other Services
			VERTICALITY

Licence Number

Permanent Datum GL Elevation NA metres

Log Measured From GROUND LEVEL above Permanent Datum

Drilling Measured From

Date	23-JUL-2009	
Run Number	1	
Depth Driller	77.00	metres
Depth Logger	77.00	metres
First Reading	77.00	metres
Last Reading	0.00	metres
Casing Logger	9.10	metres
Casing Driller	9.10	metres
Bottom Log Interval	9.20	metres
Top Log Interval		metres
Fluid Type	WATER	
Density / Viscosity		
PH / Fluid Loss		
Sample Source		
Rm @ Measured Temp		
Rmf @ Measured Temp		
Rmc @ Measured Temp		
Source Rmf / Rmc		
Rm @ BHT		
Time Since Circulation		
Time Since Stop		
Max Recorded Temp		
Equipment Name	RR5,DD6,MS2	
Equipment / Base		
Recorded By	L. OLIVER	11536
Witnessed By	O CULLINGHAM	RGR

Elevations:
KB
GL

metres

BOREHOLE RECORD

Last Edited: 23-JUL-2009 22:47

Bit Size millimetres	Depth From metres	Depth To metres
113.000	0.00	9.20
108.000	9.20	77.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	113.000	0.00	9.20	25.30

REMARKS

COORDINATES:
EASTING: 362280

NORTHING: 5487600

TOOL RUNS:
RR5,DD6,VERT, SONIC

BORE WALL COND. : GOOD
BORE HOLE COND. : GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

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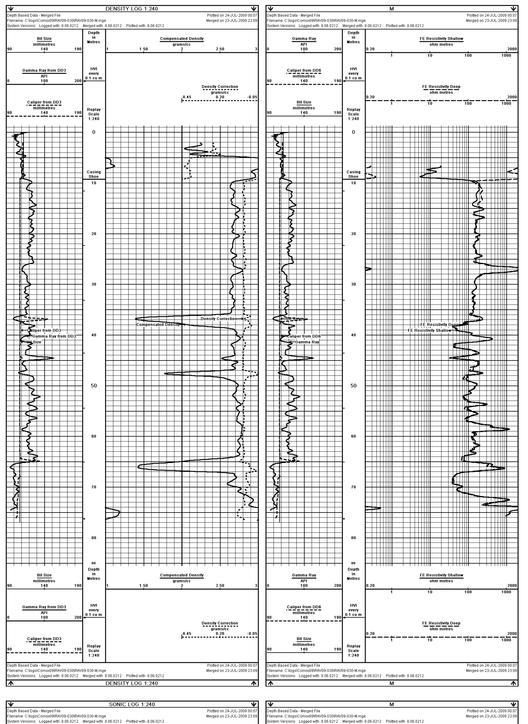
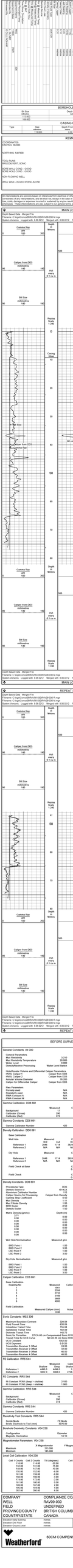


COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-030		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		

Elevation Kelly Bushing	metres	First Reading	77.00	metres
Elevation Drill Floor	metres	Depth Driller	77.40	metres
Elevation Ground Level	metres	Depth Logger	77.00	metres

Weatherford®

DUAL MINIPLOT



BEFORE SURVEY CALIBRATION

C:\logs\Conroe0906\rdf0-0906\DEN RFI 60.dat

Last Edited on 23 JUL 2009 21:37

General Constants: All DDI

General Parameters	
Mud Resistivity	0.210 ohm-metres
Mud Density Temperature	21.000 degrees
Water Level	0.000 metres
Density/Neutron Processing	Water Level Switch
Hole/Probe Volume and Differential Calipher Parameters	
HVOL Caliper 2	Caliper from DDI
HVOL Caliper 1	Caliper from DDI
Acoustic Volume Diameter	76.200 mm
Acoustic Differential Caliper	Caliper from DDI
Bias Parameters	
Density used	N/A
Resistivity used	N/A
Density Bias	N/A
Width Calibrator Id	N/A

Gamma Calibration: DDI 661

Field Calibration on 23 JUL 2009 21:37

	Measured	Calibrated (API)
Background	12	27
Calibrator (Gross)	290	463
Calibrator (Net)	273	436

Gamma Constants: DDI 661

Last Edited on 23 JUL 2009 21:37

Gamma Calibrator Number 425

Density Calibration: DDI 661

Base Calibration on 23 JUL 2009 21:37
Field Check on

Base Calibration	Measured	Calibrated (cps)
Well Note	Std	Low Std
Reference 1	2846 1714	36247 20028
Reference 2	N/A N/A	N/A N/A
Dry Hole	Measured	Calibrated (cps)
Reference 1	2846 1714	36247 20028
Reference 2	N/A N/A	N/A N/A
Field Check at Base		Calibrated (cps)
Reference 1		0.0 0.0
Field Check		Calibrated (cps)
		0.0 0.0

Density Constants: DDI 661

Last Edited on 23 JUL 2009 21:37

Processing Type	DDI
Density Tool Type	1700
Aluminium Calibrator Number	1112
Caliper Source for Processing	Caliper from Density
Density Coefficient	100.000 %
Mud Density	1.10 grams/cc
Mud F/Dead Density	1.50 grams/cc
Mud Density	1.50
Density Scaler	1.50
Matrix Density (grams/cc)	Depth (m)
2.35	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

Well Note Normalization	Measured g/cc	Calibrated g/cc
BBO Point 1	1.00	1.00
BBO Point 2	3.00	3.00
LBO Point 1	1.00	1.00
LBO Point 2	3.00	3.00
Dry Hole Normalization	Measured g/cc	Calibrated g/cc
BBO Point 1	1.00	1.00
BBO Point 2	3.00	3.00
LBO Point 1	1.00	1.00
LBO Point 2	3.00	3.00

Caliper Calibration: DDI 661

Base Calibration on 23 JUL 2009 21:37
Field Calibration on

Base Calibration Holding No	Measured	Calibration Size (mm)
1	1961	76.20
2	2446	152.40
3	2722	127.00
4	3499	152.40
5	3811	203.20
6	4095	203.20

Field Calibration	Measured Caliper (mm)	Actual Caliper (mm)
	0.00	0.00

Sonic Constants: MS2 336

Last Edited on 23 JUL 2009 21:38

Maximum Boundary Contrast	326.08 micro-secs/m
Minimum Delta T Value	100.00 micro-secs/m
Limestone Transit Time	153.54 micro-secs/m
Sandstone Transit Time	182.89 micro-secs/m
Dolomite Transit Time	175.00 micro-secs/m
Sonic for Processing	CTCA: 60 cm Compensated Sonic 60cm
Sonic Source for LCS Curve	MC36 35 Array Sonic
LCS Correlation	1352.00 MPa
LCS Constant	0.000 micro-secs/m
Transmitter-Receiver 1 Offset	152.00 inches
Transmitter-Receiver 2 Offset	52.00 inches
Transmitter-Receiver 3 Offset	52.00 inches
Transmitter-Receiver 4 Offset	48.00 inches

FE Calibration: RRS 544

Field Calibration on 23 JUL 2009 21:38

	Measured	Calibrated (API)
Reference 1	4466.0 4466.0	2 1.5
Reference 2	3002.0 3006.0	2750.0 1916.0

FE Constants: RRS 544

Last Edited on 23 JUL 2009 21:38

FE Constant PE/M1 (deep / shallow)	2.100
FE Constant PE/M2 (deep / shallow)	1.900

Gamma Calibration: RRS 544

Field Calibration on 23 JUL 2009 21:38

	Measured	Calibrated (API)
Background	12	25
Calibrator (Gross)	290	463
Calibrator (Net)	274	436

Gamma Constants: RRS 544

Last Edited on 23 JUL 2009 21:38

Gamma Calibrator Number 425

Resistivity Tool Constants: RRS 544

Last Edited on 23 JUL 2009 21:38

Sonde Mode	FE Mode
Bridle Electrode to Tool (mm)	3076.00

Borehole Geometry Constants: VDA 238

Last Edited on 23 JUL 2009 21:37

Configuration	Diameter	
Magnetic Declination	16.10 degrees	East

Magnetometer Parameters: VDA 238

Field Calibration on 23 JUL 2009 21:37

	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	313.000	312.000	321.000
Minimum	145.000	146.000	152.000

Level Cell Calibration: VDA 238

Field Calibration on 23 JUL 2009 21:37

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
119.00	119.00	35.00	269.00	267.00	4.00
132.00	131.00	15.00	215.00	214.00	10.00
143.00	143.00	5.00	237.00	236.00	7.00
151.00	151.00	0.00	248.00	245.00	25.00
160.00	160.00	-5.00	256.00	256.00	0.00
168.00	168.00	-10.00	0.00	0.00	0.00
178.00	178.00	-15.00	0.00	0.00	0.00
189.00	189.00	-20.00	0.00	0.00	0.00
199.00	197.00	2.00	0.00	0.00	0.00
208.00	208.00	0.00	0.00	0.00	0.00
220.00	220.00	-5.00	0.00	0.00	0.00

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-030		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	Final Reading	75.50 metres
Elevation Grd Floor	metres	Depth Drilled	77.40 metres
Elevation Casing Flange	metres	Depth Logger	77.00 metres

60CM COMPENSATED SONIC

Weatherford

VERTICALITY ANALYSIS

COMPANY COMPLIANCE COAL CORP
WELL RAV09-030
PROVINCE/COUNTRY BRITISH COLUMBIA
FIELD UNDEFINED
LOCATION 5811 7TH AVE DOWNTOWN
CANADA

Date	Time	Depth	Inclination	Azimuth	Tool Face	Gravity	Magnetic	Temperature	Dip Angle	Magnetic Field Strength
Thursday, July 23, 2009	22:47	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:46	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:45	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:44	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:43	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:42	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:41	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:40	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:39	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:38	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:37	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:36	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:35	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:34	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:33	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:32	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:31	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:30	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:29	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:28	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:27	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:26	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:25	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:24	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:23	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:22	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:21	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:20	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:19	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:18	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:17	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:16	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:15	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:14	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:13	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:12	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:11	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:10	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:09	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:08	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:07	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:06	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:05	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:04	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:03	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:02	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:01	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	22:00	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	21:59	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	21:58	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	21:57	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	21:56	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	21:55	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	21:54	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	21:53	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	21:52	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00
Thursday, July 23, 2009	21:51	9.20	0.00	0.00	0.00	1.000	1.000	0.00	0.00	0.00

BOREHOLE RECORD

Last Edited: 23-JUL-2009 22:47

Bit Size millimetres	Depth From metres	Depth To metres
113.000	0.00	9.20
158.000	9.20	77.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	113.000	0.00	9.20	25.30

REMARKS

COORDINATES
EASTING: 362280

NORTHING: 5487600

TOOL RUNS
WIRELOG:VERT, BONC

BORE WALL COND : GOOD
BORE HOLE COND : GOOD

NON-FLOWING

WELL WAS LOGGED STAND ALONE

Verticality Analysis Interpretation Notes

23-JUL-2009 23:06

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:48000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects. (as the azimuth calculations are derived from three axis magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth shown on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logs\Compcoal\RAV09-030\RV54-258-M.dra
All Co-ordinates With Respect To True North, all depths in metres
Final Depth: 76.16, 0.00 North, 0.00 East of Origin

Date Processed: 23-JUL-2009
Date Logged: 23-JUL-2009

DEPTHS Log	DEPTHS True	BOREHOLE Tilt	BOREHOLE Azm	AXIAL COORDS North	AXIAL COORDS East	POLAR Brg	POLAR Radius
4.00	4.00	0.9	119.0	0.00	0.01	64	0.01
5.00	5.00	0.9	85.3	0.00	0.02	80	0.02
6.00	6.00	1.2	75.6	0.00	0.03	84	0.03
7.00	7.00	1.5	69.1	0.00	0.04	87	0.04
8.00	8.00	1.0	110.4	0.00	0.06	88	0.06
9.00	9.00	1.0	89.5	0.01	0.08	86	0.08
10.00	10.00	1.2	68.5	0.01	0.09	81	0.10
11.00	11.00	1.2	55.7	0.02	0.11	78	0.11
12.00	12.00	1.0	61.3	0.03	0.12	72	0.13
13.00	13.00	0.6	55.4	0.05	0.13	69	0.14
14.00	14.00	0.9	34.9	0.06	0.14	66	0.16
15.00	15.00	0.9	29.8	0.07	0.15	64	0.17
16.00	16.00	0.9	58.4	0.08	0.17	63	0.19
17.00	17.00	1.2	54.5	0.10	0.18	61	0.20
18.00	18.00	0.6	67.7	0.11	0.19	60	0.22
19.00	19.00	0.9	47.4	0.12	0.20	59	0.24
20.00	20.00	1.2	52.3	0.13	0.22	58	0.25
21.00	21.00	1.1	55.3	0.14	0.23	57	0.27
22.00	22.00	0.9	55.7	0.15	0.24	57	0.28
23.00	23.00	0.6	78.1	0.17	0.25	56	0.30
24.00	24.00	0.6	29.0	0.18	0.26	56	0.31
25.00	25.00	0.9	29.8	0.19	0.27	55	0.33
26.00	26.00	1.2	75.1	0.20	0.28	55	0.34
27.00	27.00	0.6	39.2	0.21	0.29	55	0.36
28.00	28.00	0.9	45.8	0.22	0.30	54	0.37
29.00	29.00	0.9	45.8	0.23	0.31	54	0.39
30.00	30.00	0.9	46.6	0.24	0.32	54	0.40
31.00	31.00	0.9	46.9	0.25	0.33	53	0.42
32.00	32.00	1.2	51.7	0.26	0.34	53	0.43
33.00	33.00	0.9	52.8	0.27	0.35	53	0.45
34.00	34.00	0.9	55.8	0.28	0.36	52	0.46
35.00	35.00	1.2	61.5	0.29	0.37	52	0.47
36.00	36.00	0.9	58.9	0.30	0.38	52	0.49
37.00	37.00	0.9	48.0	0.31	0.39	52	0.50
38.00	38.00	0.9	47.4	0.32	0.40	51	0.52
39.00	39.00	0.9	47.4	0.33	0.42	51	0.53
40.00	40.00	0.9	54.6	0.34	0.43	51	0.55
41.00	41.00	0.9	54.6	0.35	0.44	51	0.56
42.00	42.00	0.6	31.9	0.37	0.45	51	0.58
43.00	42.99	1.2	59.6	0.38	0.46	51	0.60
44.00	43.99	0.6	50.7	0.39	0.47	51	0.61
45.00	44.99	0.9	57.2	0.40	0.48	50	0.63
46.00	45.99	0.9	57.2	0.41	0.49	50	0.64
47.00	46.99	0.9	55.8	0.42	0.51	50	0.66
48.00	47.99	1.0	39.0	0.44	0.52	50	0.68
49.00	48.99	0.6	46.6	0.45	0.53	50	0.69
50.00	49.99	0.9	53.0	0.46	0.54	49	0.71
51.00	50.99	0.9	53.0	0.47	0.55	49	0.72
52.00	51.99	1.2	55.7	0.48	0.56	49	0.74
53.00	52.99	0.9	70.1	0.49	0.57	49	0.75
54.00	53.99	0.9	54.6	0.50	0.58	49	0.77
55.00	54.99	0.9	54.6	0.52	0.59	49	0.78
56.00	55.99	0.9	49.6	0.53	0.60	48	0.80
57.00	56.99	0.9	54.1	0.54	0.61	48	0.82
58.00	57.99	0.9	51.0	0.55	0.62	48	0.83
59.00	58.99	0.9	51.0	0.56	0.63	48	0.85
60.00	59.99	0.3	51.1	0.58	0.64	48	0.86
61.00	60.99	0.6	48.7	0.59	0.65	48	0.88
62.00	61.99	1.0	43.3	0.60	0.66	48	0.89
63.00	62.99	0.9	58.2	0.61	0.67	48	0.91
64.00	63.99	0.9	58.2	0.62	0.68	47	0.92
65.00	64.99	0.9	68.0	0.63	0.69	47	0.94
66.00	65.99	1.0	57.5	0.65	0.70	47	0.96
67.00	66.99	0.6	52.6	0.66	0.71	47	0.97
68.00	67.99	0.9	52.6	0.67	0.72	47	0.99
69.00	68.99	0.6	61.7	0.68	0.73	47	1.00
70.00	69.99	0.9	37.3	0.69	0.74	47	1.02
71.00	70.99	1.0	31.1	0.71	0.75	47	1.03
72.00	71.99	0.9	13.5	0.72	0.76	46	1.05
73.00	72.99	0.9	13.5	0.73	0.76	46	1.06
74.00	73.99	1.0	26.6	0.75	0.77	46	1.07
75.00	74.99	1.0	18.8	0.76	0.78	46	1.09
76.00	75.99	1.0	51.8	0.78	0.78	45	1.10

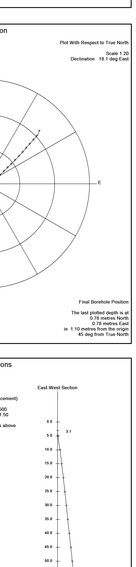
Cross Section

All Figures are Log Depths in metres

Target Origin Depth 3.10
Last Plotted Depth 77.00
Vertical Scale Displayed in multiples of 5
Final Depth Marker at 5
Last Depth Marker at 75

Plot With Respect to True North

Scale 1:20
Declination 18.1 deg East

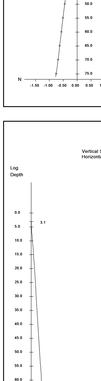


Final Borehole Position

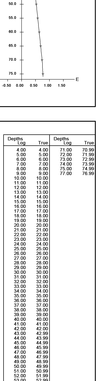
The last plotted depth is at
0.78 metres East
ie: 1.10 metres from the origin
45 deg from True North

Vertical Sections

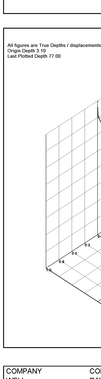
North-South Section



East-West Section



Depth Correction Analysis

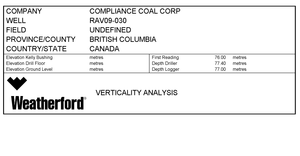


Depths Log	Depths True	Depths Log	Depths True
4.00	4.00	71.00	70.99
5.00	5.00	72.00	71.99
6.00	6.00	73.00	72.99
7.00	7.00	74.00	73.99
8.00	8.00	75.00	74.99
9.00	9.00	77.00	76.99
10.00	10.00		
11.00	11.00		
12.00	12.00		
13.00	13.00		
14.00	14.00		
15.00	15.00		
16.00	16.00		
17.00	17.00		
18.00	18.00		
19.00	19.00		
20.00	20.00		
21.00	21.00		
22.00	22.00		
23.00	23.00		
24.00	24.00		
25.00	25.00		
26.00	26.00		
27.00	27.00		
28.00	28.00		
29.00	29.00		
30.00	30.00		
31.00	31.00		
32.00	32.00		
33.00	33.00		
34.00	34.00		
35.00	35.00		
36.00	36.00		
37.00	37.00		
38.00	38.00		
39.00	39.00		
40.00	40.00		
41.00	41.00		
42.00	42.00		
43.00	42.99		
44.00	43.99		
45.00	44.99		
46.00	45.99		
47.00	46.99		
48.00	47.99		
49.00	48.99		
50.00	49.99		
51.00	50.99		
52.00	51.99		
53.00	52.99		
54.00	53.99		
55.00	54.99		
56.00	55.99		
57.00	56.99		
58.00	57.99		
59.00	58.99		
60.00	59.99		
61.00	60.99		
62.00	61.99		
63.00	62.99		
64.00	63.99		
65.00	64.99		
66.00	65.99		
67.00	66.99		
68.00	67.99		
69.00	68.99		
70.00	69.99		

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth 3.10
Last Plotted Depth 77.00

Plot With Respect to True North
Declination 18.1 deg East



Final Borehole Position

The last plotted depth is at
0.78 metres East
ie: 1.10 metres from the origin
45 deg from True North

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-030		
FIELD	UNDEFINED		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading 76.00 metres	
Elevation Drill Floor	metres	Depth Driller 77.40 metres	
Elevation Ground Level	metres	Depth Logger 77.00 metres	

Weatherford

VERTICALITY ANALYSIS

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-031
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

LOCATION			
LSD	SEC	TWP	RGE
Other Services			

Licence Number

Permanent Datum GL Elevation MA metres
Log Measured From GROUND LEVEL above Permanent Datum

Elevations: KB GL metres

Date	25-JUL-2009
Run Number	1
Depth Driller	84.00 metres
Depth Logger	70.30 metres
First Reading	70.30 metres
Last Reading	3.00 metres
Bit Size	114.00 millimetres
Casing Logger	3.00 metres
Bit Size	
Hole Fluid Type	WATER
Salinity	
PH / Fluid Viscosity	
Sample Source	
Rm @ Measured Temp	
Rmf @ Measured Temp	
Rmc @ Measured Temp	
Source Rmf / Rmc	
Rm @ BHT	
Time Since Circulation	
Max Recorded Temp	
Equipment / Base	
Equipment Number	
Recorded By	C.LEONARD 11536 RGR
Witnessed By	O.COLLINGHAM

BOREHOLE RECORD

Last Edited: 25-JUL-2009 15:28

Bit Size (millimetres)	Depth From (metres)	Depth To (metres)
114.000	0.00	3.00
111.000	3.00	15.50
110.000	15.50	58.30
107.000	58.30	70.30

CASING RECORD

Type	Size (millimetres)	Depth From (metres)	Shoe Depth (metres)	Weight (Kg/metre)
	114.000	0.00	3.00	14.14

REMARKS

COORDINATES:
EASTING:
361820

NORTHING:
5488060

TOOL RUNS:
RR5,DD8,VERT

BORE WALL COND. : AVERAGE
BORE HOLE COND. : POOR

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

LOGGER TD LIMITED TO A DEPTH OF 70.30 DUE TO HOLE CONDITIONS.

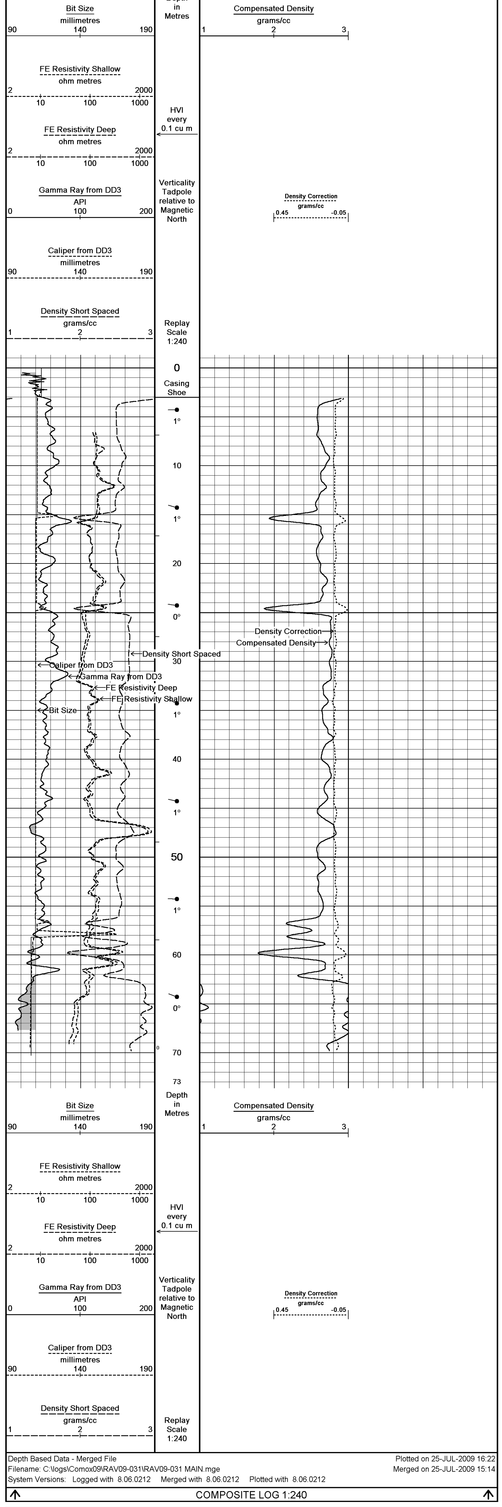
REPEATS COMPRIMISED DUE TO HOLE CONDITIONS.

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made byany of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

COMPOSITE LOG 1:240

Depth Based Data - Merged File
Filename: C:\logs\Comox09\RAV09-031\RAV09-031 MAIN.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 25-JUL-2009 16:22
Merged on 25-JUL-2009 15:14



Depth Based Data - Merged File
Filename: C:\logs\Comox09\RAV09-031\RAV09-031 MAIN.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 25-JUL-2009 16:22
Merged on 25-JUL-2009 15:14

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-031
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres		First Reading	70.30	metres
Elevation Drill Floor	metres		Depth Driller	85.00	metres
Elevation Ground Level	metres		Depth Logger	70.30	metres

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COMPOSITE COAL LOG

COAL CREEK
COAL CREEK
COAL CREEK
COAL CREEK

SCHEDULE RECORD			
Job Number:	0000000	Job Type:	Coal Seam Gas
Job Date:	01-Jan-2000	Logging Date:	01-Jan-2000
Rig Number:	1	Rig Type:	Cable
Rig Contractor:	Weatherford	Logging Unit:	1
Logging Engineer:	Weatherford	Logging Company:	Weatherford

CASING RECORD			
Type	Size (mm)	Bottom Depth (m)	Weight (kg/m)
Casing	0.000	0.000	0.000

REMARKS

CLIENT:
WELL:
FIELD:
PROJECT:
COUNTY:
PROVINCE/STATE:
COUNTRY:
DATE:
DATE OF WELL:
DATE OF LOG:
DATE OF LAST CALIBRATION:
DATE OF LAST CALIBRATION BEFORE THE BEAM TO HOLE CONDITIONS
BASED ON COMPARISON OVER TO HOLE CONDITIONS

THE INTERPRETATIONS AND DATA CONTAINED HEREIN ARE BASED ON THE INFORMATION AND DATA SUPPLIED TO WEATHERFORD BY THE CLIENT. THE INTERPRETATIONS AND DATA ARE BASED ON THE INFORMATION AND DATA SUPPLIED TO WEATHERFORD BY THE CLIENT, AND WEATHERFORD DOES NOT WARRANT THE ACCURACY OF THE INTERPRETATIONS OR DATA, NOR DOES IT ASSUME ANY LIABILITY WITH REGARDS TO SUCH USE. SUBJECT TO WEATHERFORD'S TERMS AND CONDITIONS, WEATHERFORD WARRANTS THE ACCURACY OF THE DATA RECORDED BY ITS EQUIPMENT.

COAL CREEK

Depth Reference Type: Measuring Elev. Depth Reference Elev. Depth Reference Elev. Depth Reference

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-031
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

| | | |

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-031
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
LOCATION	
LSD / SEC / TWP / RGE	Other Services: VERTICALITY
Licence Number	
Permanent Datum GL, Elevation NA metres	Elevations: KB metres, DF, GL
Log Measured From GROUND LEVEL above Permanent Datum	
Drilling Measured From	

Date	25-JUL-2009			
Run Number	1			
Depth Driller	85.00	metres		
Depth Logger	70.30	metres		
First Reading	70.30	metres		
Last Reading	0.00	metres		
Casing Driller	3.00	metres		
Casing Logger	3.00	metres		
Bit Size				
Hole Fluid Type	WATER			
Density / Viscosity				
PH / Fluid Loss				
Sample Source				
Rm @ Measured Temp				
Rmf @ Measured Temp				
Rmc @ Measured Temp				
Source Rmf / Rmc				
Rm @ BHT				
Time Since Circulation				
Max Recorded Temp				
Equipment Name				
Equipment / Base	11536	RDR		
Recorded By	C.LEONARD			
Witnessed By	O.CULLINGHAM			

BOREHOLE RECORD

Last Edited: 25-JUL-2009 15:28

Bit Size (millimetres)	Depth From (metres)	Depth To (metres)
114.000	0.00	3.00
111.000	3.00	15.50
110.000	15.50	58.30
107.000	58.30	70.30

CASING RECORD

Type	Size (millimetres)	Depth From (metres)	Shoe Depth (metres)	Weight (Kg/metre)
	114.000	0.00	3.00	14.14

REMARKS

COORDINATES:
EASTING:
361800

NORTHING:
5488060

TOOL RUNS:
RR5,DD6,VERT

BORE WALL COND. : AVERAGE
BORE HOLE COND. : POOR

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

LOGGER TD LIMITED TO A DEPTH OF 70.30 DUE TO HOLE CONDITIONS.

REPEATS COMPRIMISED DUE TO HOLE CONDITIONS.

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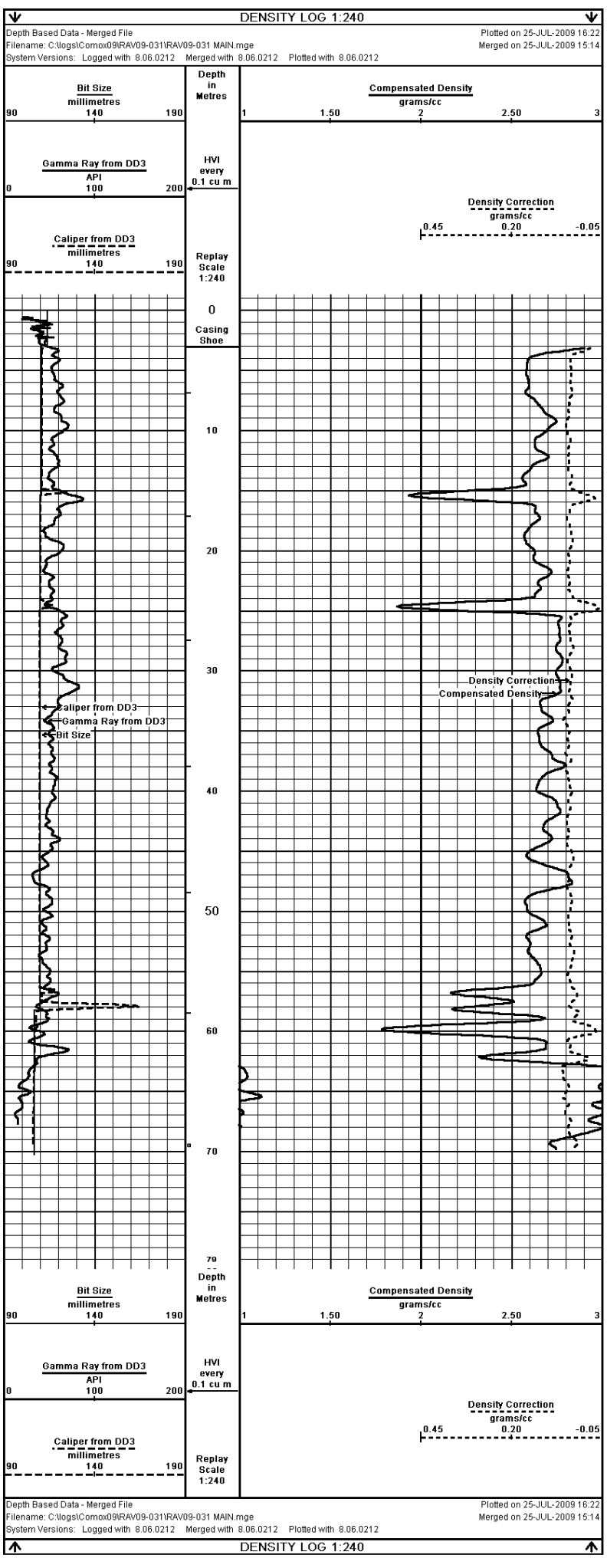
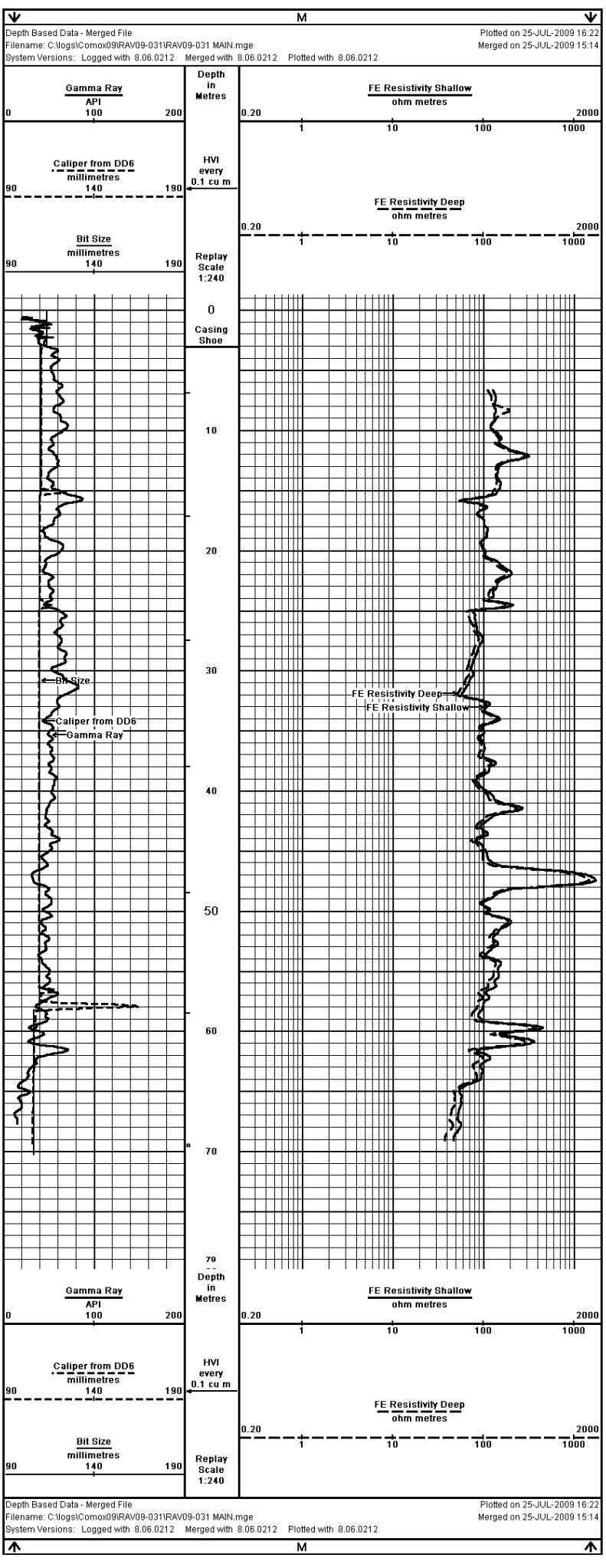




COMPANY	COMPLIANCE COAL CORP			
WELL	RAV09-031			
FIELD	UNDEFINED			
PROVINCE/COUNTY	BRITISH COLUMBIA			
COUNTRY/STATE	CANADA			
Elevation Kelly Bushing	metres	First Reading	70.30	metres
Elevation Drill Floor	metres	Depth Driller	85.00	metres
Elevation Ground Level	metres	Depth Logger	70.30	metres

Weatherford®

MINI PLOT

Verticality Analysis Interpretation Notes

25-JUL-2009 16:03

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:48000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the full borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logs\Comod09\RAV09-031\V04-238-M.dta

All Co-ordinates With Respect To True North, all depths in metres

First Depth 2.10, 0.00 North, 0.00 East of Origin

Date Processed: 25-JUL-2009
Date Logged: 25-JUL-2009

DEPTHS Log	DEPTHS True	BOREHOLE Tilt	BOREHOLE Azi	AXIAL CO-ORDS North	AXIAL CO-ORDS East	POLAR Brg	POLAR Radius
3.00	3.00	0.6	183.3	-0.01	0.00	155	0.01
4.00	4.00	1.3	295.3	-0.01	-0.00	160	0.01
5.00	5.00	1.0	288.0	-0.01	-0.02	240	0.02
6.00	6.00	1.3	294.2	-0.01	-0.04	259	0.04
7.00	7.00	1.0	301.9	-0.00	-0.06	267	0.06
8.00	8.00	1.1	285.9	-0.00	-0.08	270	0.08
9.00	9.00	1.3	289.2	0.00	-0.10	273	0.10
10.00	10.00	1.3	295.0	0.01	-0.12	274	0.12
11.00	11.00	1.1	294.1	0.01	-0.14	276	0.14
12.00	12.00	1.1	298.5	0.02	-0.15	277	0.16
13.00	13.00	1.1	302.2	0.02	-0.17	278	0.18
14.00	14.00	1.3	300.2	0.03	-0.19	279	0.20
15.00	15.00	1.4	304.9	0.04	-0.21	280	0.22
16.00	16.00	1.1	300.0	0.04	-0.23	280	0.24
17.00	17.00	1.3	299.8	0.05	-0.25	281	0.26
18.00	18.00	1.3	298.1	0.06	-0.27	283	0.28
19.00	19.00	1.0	311.9	0.07	-0.29	283	0.30
20.00	20.00	1.2	294.7	0.07	-0.31	284	0.31
21.00	21.00	1.2	302.3	0.08	-0.32	284	0.33
22.00	22.00	1.2	303.3	0.09	-0.34	285	0.35
23.00	23.00	1.3	301.9	0.10	-0.36	285	0.37
24.00	24.00	1.5	305.0	0.10	-0.38	285	0.39
25.00	25.00	1.0	296.3	0.11	-0.40	286	0.41
26.00	26.00	1.1	308.9	0.12	-0.42	286	0.43
27.00	27.00	1.4	302.1	0.13	-0.44	286	0.45
28.00	27.99	1.3	285.5	0.13	-0.45	286	0.47
29.00	28.99	0.9	297.8	0.14	-0.47	287	0.49
30.00	29.99	1.1	286.6	0.15	-0.49	287	0.52
31.00	30.99	1.2	303.3	0.16	-0.51	287	0.54
32.00	31.99	1.5	301.6	0.16	-0.53	287	0.56
33.00	32.99	1.2	306.3	0.17	-0.55	287	0.58
34.00	33.99	1.5	300.2	0.18	-0.57	288	0.60
35.00	34.99	1.5	312.4	0.19	-0.59	288	0.62
36.00	35.99	1.2	284.4	0.20	-0.61	288	0.64
37.00	36.99	1.2	288.7	0.20	-0.63	288	0.66
38.00	37.99	1.1	308.9	0.21	-0.65	288	0.68
39.00	38.99	1.2	297.8	0.22	-0.67	288	0.70
40.00	39.99	1.2	295.9	0.23	-0.69	288	0.72
41.00	40.99	1.2	301.0	0.24	-0.70	289	0.74
42.00	41.99	1.1	317.3	0.25	-0.72	289	0.76
43.00	42.99	1.5	311.8	0.25	-0.74	289	0.78
44.00	43.99	1.3	297.2	0.26	-0.76	289	0.80
45.00	44.99	1.3	300.4	0.27	-0.78	289	0.82
46.00	45.99	1.0	300.9	0.28	-0.80	289	0.84
47.00	46.99	1.2	286.9	0.29	-0.81	289	0.86
48.00	47.99	1.2	317.4	0.29	-0.83	289	0.88
49.00	48.99	1.0	303.8	0.30	-0.85	290	0.90
50.00	49.99	1.0	308.8	0.31	-0.87	290	0.92
51.00	50.99	1.0	289.5	0.32	-0.89	290	0.94
52.00	51.99	0.8	302.2	0.33	-0.91	290	0.96
53.00	52.99	1.4	297.1	0.33	-0.92	290	0.98
54.00	53.99	1.2	309.4	0.34	-0.94	290	1.00
55.00	54.99	1.3	292.0	0.35	-0.96	290	1.02
56.00	55.99	1.4	308.6	0.36	-0.98	290	1.04
57.00	56.99	1.0	304.1	0.37	-1.00	290	1.06
58.00	57.99	1.1	286.7	0.37	-1.01	290	1.08
59.00	58.99	1.0	312.9	0.38	-1.03	290	1.10
60.00	59.99	1.2	299.5	0.39	-1.05	290	1.12
61.00	60.99	1.2	303.6	0.40	-1.06	290	1.14
62.00	61.99	1.2	310.4	0.41	-1.08	291	1.16
63.00	62.99	1.1	303.8	0.41	-1.10	291	1.17
64.00	63.99	0.9	313.4	0.42	-1.12	291	1.19
65.00	64.99	0.9	308.9	0.43	-1.13	291	1.21
66.00	65.99	1.2	312.9	0.44	-1.15	291	1.23
67.00	66.99	1.1	292.4	0.45	-1.17	291	1.25
68.00	67.99	0.8	304.5	0.45	-1.18	291	1.27
69.00	68.99	1.2	277.4	0.46	-1.20	291	1.28
70.00	69.99	0.6	304.7	0.46	-1.21	291	1.30

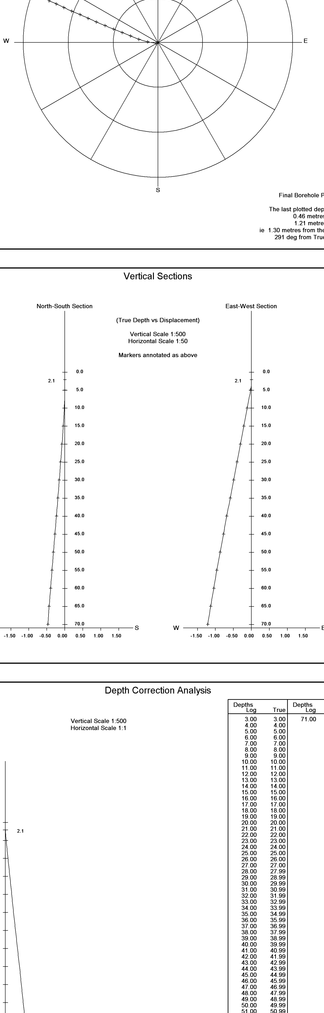
Cross Section

All Figures are Log Depths in metres

Target Origin Depth 2.10
Last Plotted Depth 71.00
Depth Markers annotated in multiples of 5
First Depth Marker at 5
Last Depth Marker at 70

Plot With Respect to True North

Scale 1:20
Declination 18.1 deg East



Final Borehole Position

The last plotted depth is at
0.46 metres North
1.21 metres West
ie 1.30 metres from the origin
291 deg from True North

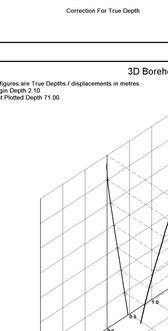
Vertical Sections

North-South Section

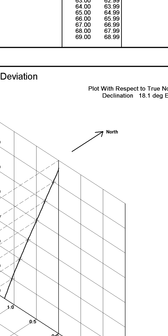
(True Depth vs Displacement)

Vertical Scale 1:500
Horizontal Scale 1:50

Markers annotated as above

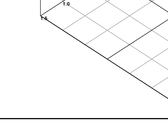


East-West Section



Depth Correction Analysis

Vertical Scale 1:500
Horizontal Scale 1:1



Depths Log	Depths True	Depths Log	Depths True
3.00	3.00	71.00	70.99
4.00	4.00		
5.00	5.00		
6.00	6.00		
7.00	7.00		
8.00	8.00		
9.00	9.00		
10.00	10.00		
11.00	11.00		
12.00	12.00		
13.00	13.00		
14.00	14.00		
15.00	15.00		
16.00	16.00		
17.00	17.00		
18.00	18.00		
19.00	19.00		
20.00	20.00		
21.00	21.00		
22.00	22.00		
23.00	23.00		
24.00	24.00		
25.00	25.00		
26.00	26.00		
27.00	27.00		
28.00	27.99		
29.00	28.99		
30.00	29.99		
31.00	30.99		
32.00	31.99		
33.00	32.99		
34.00	33.99		
35.00	34.99		
36.00	35.99		
37.00	36.99		
38.00	37.99		
39.00	38.99		
40.00	39.99		
41.00	40.99		
42.00	41.99		
43.00	42.99		
44.00	43.99		
45.00	44.99		
46.00	45.99		
47.00	46.99		
48.00	47.99		
49.00	48.99		
50.00	49.99		
51.00	50.99		
52.00	51.99		
53.00	52.99		
54.00	53.99		
55.00	54.99		
56.00	55.99		
57.00	56.99		
58.00	57.99		
59.00	58.99		
60.00	59.99		
61.00	60.99		
62.00	61.99		
63.00	62.99		
64.00	63.99		
65.00	64.99		
66.00	65.99		
67.00	66.99		
68.00	67.99		
69.00	68.99		

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth 2.10
Last Plotted Depth 71.00

Plot With Respect to True North
Declination 18.1 deg East

Final Borehole Position

The last plotted depth is at
0.46 metres North
1.21 metres West
ie 1.30 metres from the origin
291 deg from True North

VERTICALITY ANALYSIS

COMPANY COMPLIANCE COAL CORP
WELL RAV09-031
FIELD UNDEFINED
PROVINCE/COUNTRY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Date	Time	Operator	Depth	Comment
25-JUL-2009	15:28	CJC	70.30	Completed Open Hole Survey
				Completed Open Hole Survey
				Completed Open Hole Survey

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-032
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
LSD	SEC	TWP	RGE	Other Services
---	---	---	---	---
				DIPVERT

Licence Number: SCANNER

Permanent Datum: GL, Elevation M. metres
LOG MEASURED FROM: GL, Elevation M. metres
Drilling Measured From: GL, Elevations: metres

Date	28-JUL-2009	
Run Number	ONE	
Depth Driller	105.60	metres
Depth Logger	105.60	metres
First Reading	105.60	metres
Last Reading	0.00	metres
Casing Driller	20.00	metres
Casing Logger	19.70	metres
Bit Size	114.000	millimetres
Hole Fluid Type	WATER	
Density / Viscosity		
Source Sample		
Rm @ Measured Temp		
Rmf @ Measured Temp		
Rmc @ Measured Temp		
Source Rmf / Rmc		
Rm @ BHT		
Equipment Location	DOK	
Max Recorded Temp		
Equipment Name	DOK RR5 M52	
Recorded By	LOUKER	
Witnessed By	O COLLINGHAM	
Rm @ Measured Temp	691.544.560	

BOREHOLE RECORD

Last Edited: 28-JUL-2009 20:26

Bit Size millimetres	Depth From metres	Depth To metres
114.000	0.00	20.00
111.000	19.70	105.60

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	114.000	0.00	19.70	14.14

REMARKS

COORDINATES:
EASTING:
362300

NORTHING:
5488240

TOOL RUNS:
RR5,DOL,DIPVERT, SONIC, NN2, SCANNER

BORE WALL COND : AVERAGE
BORE HOLE COND : GOOD

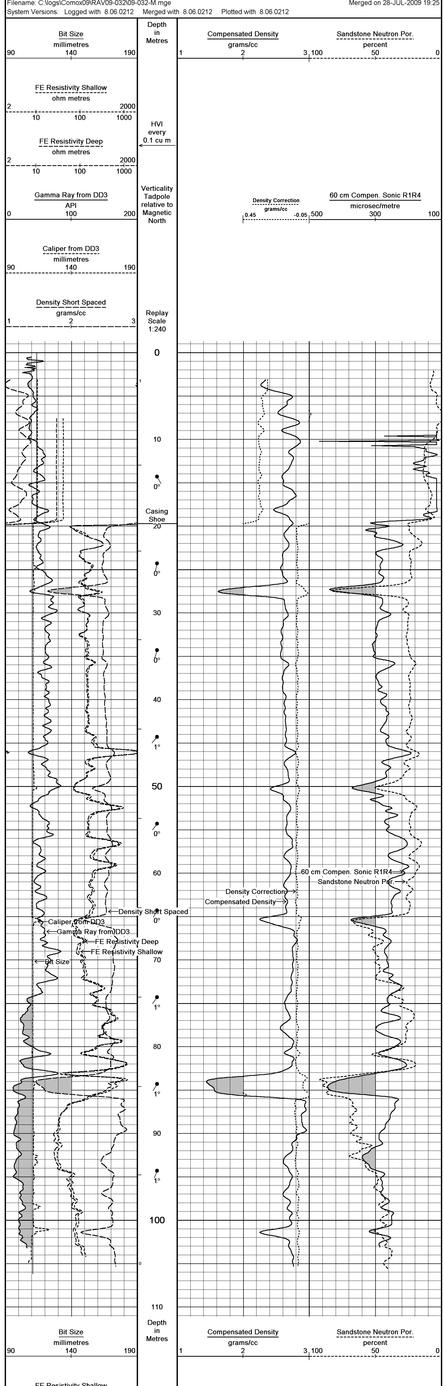
NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made byany of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

COMPOSITE LOG 1:240

Depth Based Data - Merged File — Plotted on 06-AUG-2009 16:51
Filename: C:\logs\Comox09\RAV09-032\09-032-M.mge — Merged on 28-JUL-2009 19:25
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212



Depth Based Data - Merged File — Plotted on 06-AUG-2009 16:51
Filename: C:\logs\Comox09\RAV09-032\09-032-M.mge — Merged on 28-JUL-2009 19:25
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP				
WELL	RAV09-032				
FIELD	UNDEFINED				
PROVINCE/COUNTY	BRITISH COLUMBIA				
COUNTRY/STATE	CANADA				
Elevation Kelly Bushing	metres	First Reading	105.60	metres	
Elevation Drill Floor	metres	Depth Driller	105.60	metres	
Elevation Ground Level	metres	Depth Logger	105.60	metres	

Weatherford®

COMPOSITE COAL LOG

COAL LITHOLOGY
GAMMA RAY, CALIPER
COAL DETAIL ZONES

COMPANY	COMPLIANCE COAL CORP
WELL	RAVIS-032
FIELD	UNCKNOWD
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Weatherford	COAL LITHOLOGY GAMMA RAY, CALIPER COAL DETAIL ZONES

BOREHOLE RECORD — Last Edited: 20-JUL-2005 (0:0)

Bit Size	Depth From	Depth To
114.300	0.0	97.10
114.300	97.10	97.10

CASING RECORD

Type	Size	Depth From	Drive Depth	Weight
Casing	114.300	0.0	97.10	0.0

REMARKS

ELEVATION
0.0000
NORTHING
0.0000
TITLE SLOPE
COORDINATES NAD27, NAD, NAD, SCHMIDER
DATA FROM WELL FILE : AVERAGE
DATA FOCUS FOR : 0000 - 0000

All interpretations, opinions based on information from sources or other measurements and are such as can be expected from an average or competent person or organization in the same or similar circumstances and conditions. Based on the information provided, we do not guarantee the accuracy or completeness of any interpretation or opinion based on information provided to us and we are not liable for any interpretation made based on information provided to us.

MAIN LOG 1:240

Well Name/Date: Wed,Jul 20 - Wed,Jul 20 — Plotted on 06-AUG-2008 (0:0)
Filename: C:\logs\COMPLIANCE COAL CORP\RAVIS-032.log — Merged on 06-AUG-2008 (0:0)
Gamma Ray from 2003 — Caliper from 2003 — Calibrated Density Density — Density Correction — Calibrated Neutron Neutron — Bit Size — Casing Shoe — Calibrated Density Density — Calibrated Neutron Neutron — Density Short Spaced Density — Gamma Ray from 2003

REPEAT SECTION

Well Name/Date: Wed,Jul 20 - Wed,Jul 20 — Plotted on 06-AUG-2008 (0:0)
Filename: C:\logs\COMPLIANCE COAL CORP\RAVIS-032.log — Merged on 06-AUG-2008 (0:0)
Gamma Ray from 2003 — Caliper from 2003 — Calibrated Density Density — Density Correction — Calibrated Neutron Neutron — Bit Size — Casing Shoe — Calibrated Density Density — Calibrated Neutron Neutron — Density Short Spaced Density — Gamma Ray from 2003

COAL DETAIL 1:20

Well Name/Date: Wed,Jul 20 - Wed,Jul 20 — Plotted on 06-AUG-2008 (0:0)
Filename: C:\logs\COMPLIANCE COAL CORP\RAVIS-032.log — Merged on 06-AUG-2008 (0:0)
Gamma Ray from 2003 — Caliper from 2003 — Calibrated Density Density — Density Correction — Calibrated Neutron Neutron — Bit Size — Casing Shoe — Calibrated Density Density — Calibrated Neutron Neutron — Density Short Spaced Density — Gamma Ray from 2003

BEFORE SURVEY CALIBRATION

Well Name/Date: Wed,Jul 20 - Wed,Jul 20 — Plotted on 06-AUG-2008 (0:0)
Filename: C:\logs\COMPLIANCE COAL CORP\RAVIS-032.log — Merged on 06-AUG-2008 (0:0)
Gamma Ray from 2003 — Caliper from 2003 — Calibrated Density Density — Density Correction — Calibrated Neutron Neutron — Bit Size — Casing Shoe — Calibrated Density Density — Calibrated Neutron Neutron — Density Short Spaced Density — Gamma Ray from 2003

COAL DETAIL 1:20

Well Name/Date: Wed,Jul 20 - Wed,Jul 20 — Plotted on 06-AUG-2008 (0:0)
Filename: C:\logs\COMPLIANCE COAL CORP\RAVIS-032.log — Merged on 06-AUG-2008 (0:0)
Gamma Ray from 2003 — Caliper from 2003 — Calibrated Density Density — Density Correction — Calibrated Neutron Neutron — Bit Size — Casing Shoe — Calibrated Density Density — Calibrated Neutron Neutron — Density Short Spaced Density — Gamma Ray from 2003

COAL DETAIL 1:20

Well Name/Date: Wed,Jul 20 - Wed,Jul 20 — Plotted on 06-AUG-2008 (0:0)
Filename: C:\logs\COMPLIANCE COAL CORP\RAVIS-032.log — Merged on 06-AUG-2008 (0:0)
Gamma Ray from 2003 — Caliper from 2003 — Calibrated Density Density — Density Correction — Calibrated Neutron Neutron — Bit Size — Casing Shoe — Calibrated Density Density — Calibrated Neutron Neutron — Density Short Spaced Density — Gamma Ray from 2003

COAL DETAIL 1:20

Well Name/Date: Wed,Jul 20 - Wed,Jul 20 — Plotted on 06-AUG-2008 (0:0)
Filename: C:\logs\COMPLIANCE COAL CORP\RAVIS-032.log — Merged on 06-AUG-2008 (0:0)
Gamma Ray from 2003 — Caliper from 2003 — Calibrated Density Density — Density Correction — Calibrated Neutron Neutron — Bit Size — Casing Shoe — Calibrated Density Density — Calibrated Neutron Neutron — Density Short Spaced Density — Gamma Ray from 2003

BEFORE SURVEY CALIBRATION

Original Coal\RAVIS\RAVIS-032\COAL DET 20.dlg

Last Edited on: 06-AUG-2008 (0:0)

General Constants - 90 000

General Parameters			
Mud Density	1.000	kilo newton	
Mud Resistivity Temperature	20.000	degree C	
Mud Resistivity	0.000	ohm m	
Hydrocarbon Processing	Water Leg/Air Gap/Air		
Hydrocarbon Volume and Differential Cation Parameters			
Cation Type	Calcium Ion (Ca)		
ASCII Cation 1	Calcium Ion (Ca)		
ASCII Cation 2	Calcium Ion (Ca)	mm	
Cation for Differential Cation	Calcium Ion (Ca)		
Pore Pressure			
Pore Pressure Method	None		
Hydrostatic Level	N/A		
Pore Pressure Gradient	N/A		
Formation Temperature			
Formation Temperature	0.000		

Gamma Calibration 32K-001

	Measured	Calibrated (API)
Background	0.0	0.0
Calibrator Value	0.0	0.0
Calibration Date	n/a	n/a

Last Edited on: 20-JUL-2005 (0:0)

Density Calibration 32K-001

	Measured	Calibrated (kilo gram per cubic meter)
Base Calibration		
Mid Hole	Measured	Calibrated (kilo gram per cubic meter)
Reference 1	2.000	2000.000
Reference 2	2.500	2500.000
Dry Hole	Measured	Calibrated (kilo gram per cubic meter)
Reference 1	1.74	1740.000
Reference 2	N/A	N/A
Field Check at Date		Calibrated (kilo gram per cubic meter)
Field Check		Calibrated (kilo gram per cubic meter)

Last Edited on: 20-JUL-2005 (0:0)

Density Calibration 32K-001

Processing Type	DDW
Density Source Type	Gamma
Density Source Number	32K
Cation Source for Processing	Cation from Density
Density Source Location	
Mud Density	0.00	gm/cc
Mud Density Source	Fixed
Mm Weight	0.00
Mm Source	Fixed
Matrix Density (gm/cc)	Depth (m)
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00

Last Edited on: 20-JUL-2005 (0:0)

Neutron Calibration 32K-001

	Measured	Calibrated (APU)
Background	0.0	0.0
Calibrator Value	0.0	0.0
Calibration Date	n/a	n/a

Last Edited on: 20-JUL-2005 (0:0)

Density Calibration 32K-001

	Measured	Calibrated (kilo gram per cubic meter)
Base Calibration		
Mid Hole	Measured	Calibrated (kilo gram per cubic meter)
Reference 1	2.000	2000.000
Reference 2	2.500	2500.000
Dry Hole	Measured	Calibrated (kilo gram per cubic meter)
Reference 1	1.74	1740.000
Reference 2	N/A	N/A
Field Check at Date		Calibrated (kilo gram per cubic meter)
Field Check		Calibrated (kilo gram per cubic meter)

Last Edited on: 20-JUL-2005 (0:0)

Density Calibration 32K-001

Processing Type	DDW
Density Source Type	Gamma
Density Source Number	32K
Cation Source for Processing	Cation from Density
Density Source Location	
Mud Density	0.00	gm/cc
Mud Density Source	Fixed
Mm Weight	0.00
Mm Source	Fixed
Matrix Density (gm/cc)	Depth (m)
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00

Last Edited on: 20-JUL-2005 (0:0)

Neutron Calibration 32K-001

	Measured	Calibrated (pu)
Base Calibration		
Mid Point 1	0.00	0.00
Mid Point 2	0.00	0.00
Dry Hole	Measured	Calibrated (pu)
Mid Point 1	0.00	0.00
Mid Point 2	0.00	0.00
Field Check at Date		Calibrated (pu)
Field Check		Calibrated (pu)

Last Edited on: 20-JUL-2005 (0:0)

Calipers Calibration 32K-001

	Measured	Calibrated (mm)
Base Calibration		
Mid Hole	Measured	Calibrated (mm)
1	0.000	152.40
2	0.000	152.40
3	0.000	152.40
4	0.000	152.40
Dry Hole	Measured	Calibrated (mm)
1	0.000	152.40
2	0.000	152.40
3	0.000	152.40
4	0.000	152.40
Field Check		Calibrated (mm)

Last Edited on: 20-JUL-2005 (0:0)

Borehole Geometry Calculation 32K-001

	Diameter	
Configuration		
Hole Diameter Calculation	114.300	inches Cali

Magnetic Declination 32K-001

	X Magnetic Component	Y Magnetic Component	Z Magnetic Component
Maximum	0.000	0.000	0.000
Minimum	0.000	0.000	0.000

Last Edited on: 20-JUL-2005 (0:0)

Local Cell Calibration 32K-001

Cell 1 Counts	Cell 1 Density	TR (Magnetic)	Cell 1 Counts	Cell 2 Density	TR (Magnetic)
0.00	0.00	0.00	0.00	0.00	0.00
134.00	1.00	10.00	272.00	2.00	20.00
268.00	2.00	20.00	544.00	3.00	30.00
402.00	3.00	30.00	816.00	4.00	40.00
536.00	4.00	40.00	1088.00	5.00	50.00
670.00	5.00	50.00	1360.00	6.00	60.00
804.00	6.00	60.00	1632.00	7.00	70.00
938.00	7.00	70.00	1904.00	8.00	80.00
1072.00	8.00	80.00	2176.00	9.00	90.00
1206.00	9.00	90.00	2448.00	10.00	100.00
1340.00	10.00	100.00	2720.00	11.00	110.00

Local Cell Calibration 32K-001

Gamma Calibration 16X2 5MS

	Measured	Calibrated (API)
Background	0.0	0.0
Calibrator Value	0.0	0.0
Calibration Date	n/a	n/a

Last Edited on: 20-JUL-2005 (0:0)

Neutron Calibration 16X2 5MS

	Short		Long	
Base Calibration				
Mid Point	Measured	Calibrated (pu)	Measured	Calibrated (pu)
1	0.000	0.000	0.000	0.000
Dry Hole				
Mid Point				
1	0.000	0.000	0.000	0.000
Field Check Date				
Field Check	0.0 pu	1 Calibrate		

Last Edited on: 17-JUN-2005 (0:0)

Density Calibration 32K-001

	Measured	Calibrated (kilo gram per cubic meter)
Base Calibration		
Mid Hole	Measured	Calibrated (kilo gram per cubic meter)
Reference 1	2.000	2000.000
Reference 2	2.500	2500.000
Dry Hole	Measured	Calibrated (kilo gram per cubic meter)
Reference 1	1.74	1740.000
Reference 2	N/A	N/A
Field Check at Date		Calibrated (kilo gram per cubic meter)
Field Check		Calibrated (kilo gram per cubic meter)

Last Edited on: 20-JUL-2005 (0:0)

Density Calibration 16X2 5MS

	Measured	Calibrated (API)
Background	0.0	0.0
Calibrator Value	0.0	0.0
Calibration Date	n/a	n/a

Last Edited on: 20-JUL-2005 (0:0)

Density Calibration 16X2 5MS

Density Source	16 Micro
Density Source Number	16X2 5MS

Last Edited on: 20-JUL-2005 (0:0)

Density Calibration 16X2 5MS

Density Source	16 Micro
Density Source Number	16X2 5MS

Last Edited on: 20-JUL-2005 (0:0)

Density Calibration 16X2 5MS

Density Source	16 Micro
Density Source Number	16X2 5MS

Last Edited on: 20-JUL-2005 (0:0)

DIPMETER ANALYSIS

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-032
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

BOREHOLE RECORD

Last Edited: 28-JUL-2009 20:26

Bit Size millimetres	Depth From metres	Depth To metres
114.000	0.00	20.00
111.000	18.70	105.80

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	114.000	0.00	19.70	14.14

REMARKS

COORDINATES
UTM ZONE
9U300

NORTHING
5486040

TOOL RUNS:
BRIS,DDLDIPVIEWT, SONIC, NN2, SCANNER

BORE WALL COND : AVERAGE
BORE HOLE COND : GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

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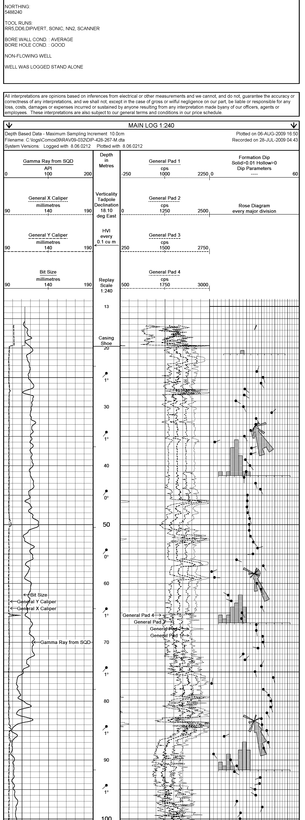
MAIN LOG 1:240

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\logic\Comcol09\RAV09-032\DIP-428-267.M dta
System Versions. Logged with 6.06-0212 Plotted with 6.06-0212

Plotted on 06-AUG-2009 16:50
Recorded on 28-JUL-2009 04:43



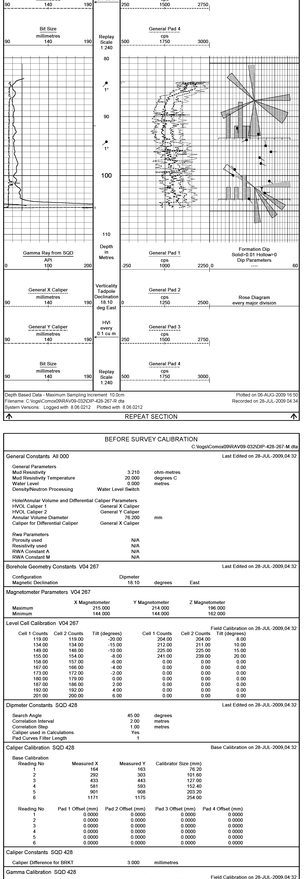
Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\logic\Comcol09\RAV09-032\DIP-428-267.M dta
System Versions. Logged with 6.06-0212 Plotted with 6.06-0212

Plotted on 06-AUG-2009 16:50
Recorded on 28-JUL-2009 04:43

REPEAT SECTION

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\logic\Comcol09\RAV09-032\DIP-428-267.M dta
System Versions. Logged with 6.06-0212 Plotted with 6.06-0212

Plotted on 06-AUG-2009 16:50
Recorded on 28-JUL-2009 04:34



Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\logic\Comcol09\RAV09-032\DIP-428-267.M dta
System Versions. Logged with 6.06-0212 Plotted with 6.06-0212

Plotted on 06-AUG-2009 16:50
Recorded on 28-JUL-2009 04:40

REPEAT SECTION

BEFORE SURVEY CALIBRATION

C:\logic\Comcol09\RAV09-032\DIP-428-267.M dta

General Constants AI 000

Last Edited on 28-JUL-2009,04:32

General Parameters	
Mud Resistivity	3.210 ohm-metres
Mud Resistivity Temperature	20.000 degrees C
Water Level	0.000 metres
Density/Neutron Processing	Water Level Switch
Hole/Annular Volume and Differential Caliper Parameters	
HVOL Calibration	General X Caliper
HVOL Caliper 2	General Y Caliper
Annular Volume Diameter	76.200 mm
Caliper for Differential Caliper	General X Caliper
Raw Parameters	
Processing used	N/A
Resistivity used	N/A
IWA Constant A	N/A
IWA Constant M	N/A

Borehole Geometry Constants V04 267

Last Edited on 28-JUL-2009,04:32

Configuration	Diptester	
Magnetic Declination	18.10 degrees	East

Magnetometer Parameters V04 267

	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	215.000	214.000	196.000
Minimum	144.000	144.000	162.000

Level-Cell Calibration V04 267

Field Calibration on 28-JUL-2009,04:33

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
134.00	134.00	-15.00	211.00	211.00	15.00
134.00	134.00	-15.00	212.00	211.00	15.00
149.00	148.00	-10.00	225.00	225.00	15.00
155.00	154.00	-8.00	241.00	239.00	20.00
158.00	157.00	-6.00	0.000	0.000	0.00
161.00	160.00	-4.00	0.000	0.000	0.00
173.00	172.00	-2.00	0.000	0.000	0.00
180.00	179.00	0.00	0.000	0.000	0.00
187.00	186.00	2.00	0.000	0.000	0.00
192.00	192.00	4.00	0.000	0.000	0.00
201.00	200.00	6.00	0.000	0.000	0.00

Dipmeter Constants SQD 428

Last Edited on 28-JUL-2009,04:32

Search Angle	45.00	degrees
Correlation Interval	2.00	metres
Correlation Step	1.00	metres
Caliper used in Calculations	Yes	
Pad Curves Filter Length	1	

Caliper Calibration SQD 428

Base Calibration on 28-JUL-2009,04:32

Base Calibration

Reading No.	Measured X	Measured Y	Calibrator Size (mm)
1	164	163	76.20
2	292	303	101.60
3	433	443	127.00
4	561	583	152.40
5	687	703	177.80
6	1171	1175	254.00

Reading No	Pad 1 Offset (mm)	Pad 2 Offset (mm)	Pad 3 Offset (mm)	Pad 4 Offset (mm)
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000

Caliper Constants SQD 428

Caliper Difference for BRKT	3.000	millimetres

Gamma Calibration SQD 428

Field Calibration on 28-JUL-2009,04:32

	Measured	Calibrated (API)
Background	9	35
Calibrator (Gross)	120	471
Calibrator (Net)	111	436

Gamma Constants SQD 428

Last Edited on 21-MAY-2009,11:08

Gamma Calibrator Number	425

Elevation Kelly Bushing	metres	First Reading	105.50 metres
Elevation Drill Floor	metres	Depth Driller	105.60 metres
Elevation Ground Level	metres	Depth Logger	105.60 metres

Weatherford

DIPMETER ANALYSIS

COMPANY	COMPLIANCE COAL CORP				
WELL	RAV09-032				
FIELD	UNDEFINED				
PROVINCE/COUNTY	BRITISH COLUMBIA				
COUNTRY/STATE	CANADA				
LOCATION	23	SEC	TWP	RGE	Other Services
					DIPVERT
Licence Number					SCANNER
Permanent Datum GL	Elevation 1M metres				
Log Measured From GROUND LEVEL above Permanent Datum					Elevations KB GL metres
Drilling Measured From					

Date	28-JUL-2009		
Run Number	1		
Depth Driller	105.60	metres	
Depth Logger	105.60	metres	
First Reading	105.60	metres	
Last Reading	0.00	metres	
Casing Driller	20.00	metres	
Casing Logger	19.70	metres	
Bit Size	111		
Hole Fluid Type	WATER		
Density / Viscosity			
PH / RM / Viscosity			
Sample Source			
Rm @ Measured Temp			
Rmf @ Measured Temp			
Rmc @ Measured Temp			
Source Rmf / Rmc			
Rm @ BHT			
Time Since Circulation			
Max Recorded Temp			
Equipment / Base	DD6,RR5,NN2		
Recorded By	L.OLIVER	11556	RDR
Witnessed By	O.CULLINGHAM	691,544,560	

MINIPLOT

BOREHOLE RECORD

Last Edited: 28-JUL-2009 20:26

Bit Size millimetres	Depth From metres	Depth To metres
114.000	0.00	20.00
111.000	19.70	105.60

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	114.000	0.00	19.70	14.14

REMARKS

COORDINATES:
EASTING:
362300

NORTHING:
5488240

TOOL RUNS:
RR5,DD6,DIPVERT, SONIC, NN2, SCANNER

BORE WALL COND. : AVERAGE
BORE HOLE COND. : GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

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COMPANY	COMPLIANCE COAL CORP				
WELL	RAV09-032				
FIELD	UNDEFINED				
PROVINCE/COUNTY	BRITISH COLUMBIA				
COUNTRY/STATE	CANADA				
Elevation Kelly Bushing	metres		First Reading	105.60	metres
Elevation Drill Floor	metres		Depth Driller	105.60	metres
Elevation Ground Level	metres		Depth Logger	105.60	metres

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MINIPLOT

GAMMA RAY, CALIPER
NEUTRON BORE CORRECTIONS, ZONES

COMPANY	COMPLIANCE COAL CORP
WELL	PELLE
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Depth Scale	1:200
Gamma Scale	0 - 150 API
Caliper Scale	100 - 400 mm
Density Scale	1.95 - 2.95 g/cc
Neutron Scale	0.45 - 0.15

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GAMMA RAY, CALIPER
NEUTRON BORE CORRECTIONS, ZONES

BOREHOLE RECORD

Log Date: 26-JUL-2006 [2]

Bit Size	Depth From	Depth To
152.4 mm	0.0 m	1000.0 m

CASING RECORD

Type	Size	Weight	Grade	Depth From	Depth To
Casing	114.3 mm	6.9 kg/m	J55	0.0 m	1000.0 m

REMARKS

CONDITIONS
NONE
NOTES
NONE
TOOL RUNS
GAMMA RAY, GAMMA RAY, NEUTRON, NEUTRON, CALIPER
BORE WALL CONDITIONS
BORE WALL CONDITIONS - GOOD
CALIPER PROBE ARM
WELL WAS LOGGED STARTING ALONE

All measurements are corrected based on distances from electrical or other measurements and are carried out for guidance the purposes of correlation only. Depth Scale Shifts, Tool Stretch, Cable Stretch, Speed Corrections, Zero Shifts, Calibrations, Environmental Corrections, Weight and Speed Corrections, Density Corrections, Neutron Corrections, Gamma Ray Corrections, Caliper Corrections, Resistivity Corrections, Sonic Corrections, Dip Corrections, Dip Azimuth Corrections, Deviation Corrections, Hole Size Corrections, Mud Corrections, Temperature Corrections, Pressure Corrections, Tension Corrections, Tool Zero Corrections, Tool Calibrations, Tool Specifications, Tool Models, Tool Serial Numbers, Tool Positions, Tool Eccentrics, Tool Standoffs, Tool Speeds, Tool Sensitivities, Tool Resolutions, Tool Accuracies, Tool Precisions, Tool Ranges

| | | |

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-032
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Grd Floor	metres
Depth Datum Level	metres

Final Reading	104.20 metres
Depth Order	105.60 metres
Depth Logger	105.60 metres

60CM COMPENSATED SONIC

Weatherford

60CM COMPENSATED SONIC

COMPANY: COMPLIANCE COAL CORP
WELL: RAV09-032
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA
Elevation Kelly Bushing: metres
Elevation Grd Floor: metres
Depth Datum Level: metres
Final Reading: 104.20 metres
Depth Order: 105.60 metres
Depth Logger: 105.60 metres

BOREHOLE RECORD

Last Edited: 28 JUL 2009 20:08

Bit Size millimetres	Depth From metres	Depth To metres	Drill Method
311.000	0.00	15.70	ROTARY
111.000	15.70	105.60	DCDP

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/m	Grade
	311.000	0.00	15.70	0.00	J-K 1

REMARKS

COORDINATES
SACRING
MEMO

NORTHING
MEMO

TOOL NAME
WIRELOGIC/WRT, SONIC, NKL SCANNER

SURF HEAD LOND - 0VEENAE
SURF HEAD LAT - 0VEENAE

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

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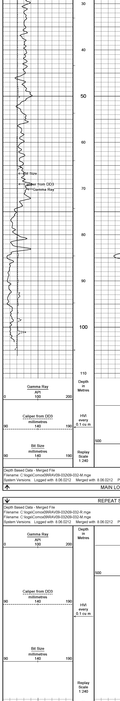
MAIN LOG 1:240

Depth Scale Units : Merged Plot
Filename: C:\logs\Compliance\RAV09-032\09-032-00.mrge
Sensors Versions : Logged with 3.36.0212 Merged with 3.36.0212 Plotted with 3.36.0212

Plotted on 06-AUG-2009 16:46
Merged on 28-JUL-2009 19:20



REPEAT SECTION

Depth Scale Units : Merged Plot
Filename: C:\logs\Compliance\RAV09-032\09-032-00.mrge
Sensors Versions : Logged with 3.36.0212 Merged with 3.36.0212 Plotted with 3.36.0212

Plotted on 06-AUG-2009 16:46
Merged on 28-JUL-2009 19:20

BEFORE SURVEY CALIBRATION

C:\logs\Compliance\RAV09-032\DC09-001.dl.dsc

Last Edited on 28-JUL-2009 22:08

General Constants: All 000

General Parameters		
Well Reversibility	3 210	ohm-metres
Mud Resistivity Temperature	20.000	degrees C
Mud Resistivity	0.000	ohmm
Density/Neutron Processing	Water Level Density	
Hole/Borehole Volume and Differential Caliper Parameters		
Caliper from DC0	Caliper from DC0	
HSVX, Caliper 2	Caliper from DC0	
Hole Volume Calculation Diameter	311.000	mm
Caliper for Differential Caliper	Caliper from DC0	
Sea Parameters		
Porosity used	N/A	
Salinity used	N/A	
Sea Water Density	N/A	
NaCl Concent M	N/A	

Gamma Calibration: DD6 691

Field Calibration on 28-JUL-2009,02:56

	Measured	Calibrated (API)
Background	17	0.0
Calibrator (Gross)	1347	667
Calibrator (Net)	275	436
Gamma Calibrator Number	425	

Gamma Constants: DD6 691

Last Edited on 28-JUL-2009,02:56

Density Calibration: DD6 691

Last Edited on 28-JUL-2009,02:57
Field Check on

	Measured	Std	Calibrated (cts)
Well Hole	0.0	0.0	1.ref
Reference 1	3646	1714	3630T 2602R
Reference 2	N/A	N/A	N/A N/A
Dry Hole	Measured		Calibrated (cts)
Reference 1	3646	1714	3630T 2602R
Reference 2	N/A	N/A	N/A N/A
Field Check at Base			Calibrated (cts) 0.0 0.0
Field Check			Calibrated (cts) 0.0 0.0

Density Constants: DD6 691

Last Edited on 28-JUL-2009,02:57

Processing Type	DDC	
Density Source M	1314CJ5	
Density Calibrator Number	1314	
Caliper Source for Processing	Caliper from Density	
Gamma Strip Coefficient	0.50	
Mud Density	1.00	gm/cc
Mud Filtrate Density	1.00	gm/cc
BBO Scaler	0.50	
Density Scaler	0.50	
Matrix Density (gm/cc)	Depth (m)	
2.71	0.00	
2.50	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

Well Hole Normalization	Measured g/cc	Calibrated g/cc
BBO Peak 1	1.00	1.00
BBO Peak 2	3.00	3.00
LBO Peak 1	1.00	1.00
LBO Peak 2	3.00	3.00

Dry Hole Normalization	Measured g/cc	Calibrated g/cc
BBO Peak 1	1.00	1.00
BBO Peak 2	3.00	3.00
LBO Peak 1	1.00	1.00
LBO Peak 2	3.00	3.00

Caliper Calibration: DD6 691

Base Calibration on 28-JUL-2009,02:57
Field Calibration on

Base Calibration Reading No.	Measured (mm)	Calibrator Size (mm)
1	1981	76.20
2	2732	127.00
3	2732	127.00
4	3480	177.80
5	3480	177.80
6	4065	203.20

Field Calibration	Measured Caliper (mm)	Actual Caliper (mm)
	0.00	0.00

Borehole Geometry Constants: VO4 287

Last Edited on 28-JUL-2009,04:52

Configuration	Diameter	
Hole Diameter	16.10	degrees East

Magnetometer Parameters: VO4 287

	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	144.000	144.000	144.000
Minimum	144.000	144.000	142.000

Level Cell Calibration: VO4 287

Field Calibration on 28-JUL-2009,04:52

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
119.00	119.00	-20.00	264.00	264.00	6.00
119.00	119.00	-15.00	264.00	264.00	11.00
148.00	148.00	-10.00	225.00	225.00	15.00
155.00	154.00	-6.00	241.00	239.00	20.00
155.00	154.00	-1.00	0.00	0.00	25.00
173.00	172.00	4.00	0.00	0.00	30.00
173.00	172.00	2.00	0.00	0.00	0.00
173.00	172.00	1.00	0.00	0.00	0.00
173.00	172.00	0.00	0.00	0.00	0.00
173.00	172.00	-1.00	0.00	0.00	0.00
173.00	172.00	-2.00	0.00	0.00	0.00
201.00	200.00	-6.00	0.00	0.00	0.00

Sonic Calibration: VA2 390

Last Edited on 28-JUL-2009,01:49

Maximum Boundary Contrast	326.08	micro-secs/m
Fast Transit Time	620.08	micro-secs/m
Limestone Transit Time	155.84	micro-secs/m
Compressional Velocity	1600.00	metres/second
Sulfonic Transit Time	152.72	micro-secs/m
Sonic Source Type	STCJ-46 cm Compensated Sonic	
Sonic Receiver Type	MCJA-26 cm Sonic	
UT-0 Constant	152.00	
UT-1 Constant	1600.00	metres/second
Transmitter-Receiver 1 Offset	34.00	inches
Transmitter-Receiver 2 Offset	46.00	inches
Transmitter-Receiver 3 Offset	60.00	inches
Transmitter-Receiver 4 Offset	48.00	inches

Sonic Calibration: VA2 390

Field Calibration on 28-JUL-2009,02:46

	Measured	Calibrated (INT)
Background	14	0.0
Calibrator (Net)	277	436
Sonic Calibrator Number	425	

Gamma Constants: VA2 390

Last Edited on 28-JUL-2009,02:46

Neutron Calibration: VA2 390

Base Calibration on 28-JUL-2009,02:46

Base Calibration Reading	Short Spaced (cts)	Measured	Long Spaced (cts)	Calibrated
1	344	1040	81	236
2	0	0	0	0

Neutron Constants: VA2 390

Last Edited on 17-JUN-2009,18:32

Neutron Source M	15450M
Porosity Equation Type	3-Curve, 1-Epithermal

FE Calibration: RR5 544

Field Calibration on 28-JUL-2009,01:39

	Measured Shallow	Measured Deep	Calibrated (cts/s.m) Shallow	Calibrated Deep
Reference 1	4065.0	4499.0	1.4	1.0
Reference 2	3922.0	3956.0	2158.0	1918.0

FE Constants: RR5 544

Last Edited on 28-JUL-2009,01:39

Hi Constant (MV) (deep / shallow)	2 100
Lo Constant (MV) (deep / shallow)	1 000

Gamma Calibration: RR5 544

Field Calibration on 28-JUL-2009,01:39

	Measured	Calibrated (API)
Background	0	25
Calibrator (Gross)	298	667
Calibrator (Net)	274	436
Gamma Calibrator Number	425	

Gamma Constants: RR5 544

Last Edited on 28-JUL-2009,01:39

Density Calibration: RR5 544

Last Edited on 28-JUL-2009,01:39

Scale Mode	FE Mode
Density Calibrator Tool (mm)	305.00

VERTICALITY ANALYSIS

COMPANY	COMPLIANCE COAL CORP
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA CANADA
COUNTRY/STATE	CANADA
WELL	RAV09-032
LOCATION	
DATE	28-JUL-2009
DIRECTIONAL CONTRACTOR	Weatherford
TOOL	Gyro Smart
SERIAL	10-10
DIAL	0.0
DIRECTION	0.0
TYPE	Gyro Smart
SURVEYED	28-JUL-2009
DIRECTIONAL DRILLER	
RIG	
ELEVATION	105.50 metres
DATUM	Ground Level
DEPTH REFERENCE	Ground Level
DEPTH MEASURED FROM	Ground Level
DEPTH TO	105.60 metres
DEPTH INTERVAL	1.00 metres
DEPTH CONTROL	Depth Input
DEPTH TYPE	Measured Depth
DEPTH UNITS	metres
DIRECTION UNITS	degrees
INCLINATION UNITS	degrees
DOGLEG UNITS	degrees/30 metres
VERTICAL SECTION UNITS	metres
VERTICAL SECTION AZIMUTH	0.0
VERTICAL SECTION TYPE	Measured Depth
VERTICAL SECTION DATUM	Ground Level
VERTICAL SECTION DEPTH	105.60 metres
VERTICAL SECTION INTERVAL	1.00 metres
CALCULATION METHOD	Minimum Curvature
CALCULATION PLANE	3D
CALCULATION ERROR	Error Ratio
CALCULATION WARNING	10
CALCULATION STATUS	Finished

BOREHOLE RECORD

Bit Size	Depth From metres	Depth To metres
114.000	0.00	20.00
111.000	19.70	105.60

Last Edited: 28-JUL-2009 20:28

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	114.000	0.00	19.70	14.14

REMARKS

COORDINATES
GRIDTRUE
NEDAS

NORTHING
5486380

TOOL SUMS
BRIDGLDOFLWART, SDNC, NIO, SCANNER

BORE WALL CONDITION : AVERAGE
BORE HOLE CONDITION : GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

Vertically Analysis Interpretation Notes

28-JUL-2009 19:30

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:40000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed vertically may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects (e.g. in casing, near ferrous material, in magnetic anomalies, in magnetic disturbances). So the analysis will generally begin at the end of the casing and all borehole produced information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross-section for the entire hole)

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH — The depth recorded on the field logs for the borehole.

TRUE DEPTH — The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.

HOLE TILT AND AZIMUTH — The sampled borehole orientation.

AXIAL COORDINATES — The coordinates North and East from the target origin.

POLAR COORDINATES — The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Vertically Data Listing

C:\Ingo\Cross\BRAVo09-032\CAR 428-261 Mt.dta
All Co-ordinates With Respect To True North, all depths in metres
First Depth: 13.80, 0.00 North, 0.00 East of Origin

Date Processed: 28-JUL-2009
Date Logged: 28-JUL-2009

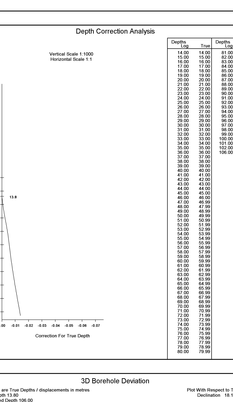
DEPTHS Log	DEPTHS True	BOREHOLE Tilt	BOREHOLE Azm	AXIAL CO-ORDS North	AXIAL CO-ORDS East	POLAR Dist.	POLAR Bearing
13.80	14.00	0.6	175.0	-0.00	0.00	0.00	+00
15.00	15.00	0.6	175.5	-0.01	0.00	0.12	0.01
16.00	16.00	0.9	199.0	-0.03	0.01	0.05	0.23
17.00	17.00	0.8	154.0	-0.04	0.01	0.03	0.54
18.00	18.00	1.0	179.8	-0.05	0.02	0.00	0.00
19.00	19.00	1.0	179.8	-0.07	0.02	0.02	0.00
20.00	20.00	0.9	212.6	-0.08	0.02	0.04	0.27
21.00	21.00	0.9	225.8	-0.09	0.02	0.05	0.10
22.00	22.00	1.0	227.1	-0.10	0.01	0.06	0.12
23.00	23.00	0.9	208.2	-0.12	-0.00	0.07	0.52
24.00	24.00	0.7	214.6	-0.14	-0.01	0.08	0.14
25.00	25.00	0.7	214.6	-0.15	-0.02	0.09	0.00
26.00	26.00	0.8	218.5	-0.16	-0.03	0.09	0.40
27.00	27.00	1.0	234.6	-0.18	-0.04	0.10	0.16
28.00	28.00	1.0	225.7	-0.20	-0.05	0.12	0.25
29.00	29.00	1.0	216.6	-0.21	-0.06	0.14	0.22
30.00	30.00	0.9	208.2	-0.22	-0.07	0.15	0.29
31.00	31.00	0.9	215.0	-0.24	-0.08	0.16	0.26
32.00	32.00	1.2	210.8	-0.26	-0.09	0.20	0.28
33.00	33.00	1.2	221.1	-0.28	-0.10	0.23	0.31
34.00	34.00	1.2	221.2	-0.29	-0.11	0.25	0.31
35.00	35.00	0.9	216.0	-0.31	-0.12	0.27	0.33
36.00	36.00	1.0	201.9	-0.32	-0.13	0.28	0.37
37.00	37.00	1.0	213.2	-0.34	-0.14	0.30	0.37
38.00	38.00	0.9	216.6	-0.35	-0.15	0.31	0.33
39.00	39.00	0.8	218.5	-0.37	-0.16	0.32	0.40
40.00	40.00	1.1	217.6	-0.38	-0.17	0.33	0.42
41.00	41.00	0.9	218.5	-0.40	-0.18	0.35	0.40
42.00	42.00	0.8	208.5	-0.42	-0.19	0.37	0.40
43.00	43.00	0.9	219.1	-0.43	-0.19	0.38	0.47
44.00	44.00	0.9	230.4	-0.45	-0.20	0.39	0.49
45.00	45.00	1.0	238.0	-0.46	-0.20	0.40	0.50
46.00	46.00	0.9	229.5	-0.47	-0.21	0.41	0.52
47.00	46.99	0.9	210.3	-0.49	-0.22	0.44	0.54
48.00	47.99	0.6	213.3	-0.50	-0.23	0.44	0.55
49.00	48.99	0.6	213.3	-0.51	-0.23	0.45	0.58
50.00	49.99	0.9	217.5	-0.53	-0.24	0.50	0.58
51.00	50.99	1.0	223.7	-0.54	-0.25	0.55	0.60
52.00	51.99	0.8	205.8	-0.55	-0.26	0.57	0.62
53.00	52.98	0.8	212.7	-0.57	-0.27	0.58	0.65
54.00	53.98	0.9	222.2	-0.58	-0.28	0.60	0.67
55.00	54.98	0.9	235.5	-0.60	-0.29	0.66	0.66
56.00	55.99	0.9	230.9	-0.61	-0.29	0.66	0.68
57.00	56.99	0.9	229.5	-0.62	-0.30	0.67	0.69
58.00	57.99	0.9	222.2	-0.64	-0.31	0.69	0.71
59.00	58.99	0.9	217.3	-0.65	-0.32	0.66	0.72
60.00	59.99	0.9	230.4	-0.67	-0.33	0.68	0.74
61.00	60.99	0.9	238.0	-0.68	-0.34	0.69	0.76
62.00	61.99	1.2	223.5	-0.69	-0.35	0.71	0.77
63.00	62.99	0.9	212.4	-0.70	-0.36	0.77	0.79
64.00	63.99	0.9	213.6	-0.72	-0.36	0.81	0.81
65.00	64.99	0.9	224.4	-0.73	-0.37	0.82	0.83
66.00	65.99	0.9	227.6	-0.75	-0.38	0.87	0.84
67.00	66.99	1.2	222.2	-0.76	-0.39	0.87	0.86
68.00	67.99	0.9	219.1	-0.77	-0.40	0.89	0.88
69.00	68.99	0.9	216.6	-0.79	-0.41	0.88	0.89
70.00	69.99	0.9	217.3	-0.80	-0.42	0.88	0.91
71.00	70.99	1.0	226.1	-0.82	-0.43	0.95	0.92
72.00	71.99	1.0	224.4	-0.83	-0.44	0.98	0.94
73.00	72.99	0.9	230.9	-0.84	-0.45	0.98	0.96
74.00	73.99	0.8	236.7	-0.85	-0.46	0.99	0.98
75.00	74.99	1.0	234.7	-0.87	-0.47	0.98	0.99
76.00	75.99	1.0	229.5	-0.88	-0.48	1.00	1.01
77.00	76.99	1.0	225.1	-0.90	-0.49	1.03	1.03
78.00	77.99	0.9	236.3	-0.92	-0.50	1.04	1.04
79.00	78.99	0.9	230.9	-0.93	-0.50	1.06	1.06
80.00	79.99	0.9	223.9	-0.95	-0.52	1.09	1.08
81.00	80.99	0.9	229.5	-0.96	-0.53	1.11	1.09
82.00	81.99	1.1	226.4	-0.97	-0.55	1.09	1.12
83.00	82.99	1.1	224.5	-0.99	-0.56	1.09	1.14
84.00	83.99	1.0	229.5	-1.01	-0.57	1.12	1.16
85.00	84.99	0.9	229.5	-1.02	-0.58	1.15	1.17
86.00	85.99	0.9	228.4	-1.03	-0.59	1.19	1.19
87.00	86.99	0.9	232.4	-1.05	-0.60	1.21	1.21
88.00	87.99	1.2	236.3	-1.06	-0.62	1.19	1.23
89.00	88.99	1.2	236.5	-1.08	-0.63	1.21	1.25
90.00	89.99	1.2	222.7	-1.09	-0.64	1.22	1.26
91.00	90.99	1.2	226.0	-1.10	-0.65	1.25	1.28
92.00	91.99	1.2	229.5	-1.12	-0.66	1.28	1.30
93.00	92.98	1.2	234.1	-1.13	-0.67	1.31	1.32
94.00	93.98	1.0	219.0	-1.15	-0.68	1.31	1.34
95.00	94.98	1.0	226.1	-1.16	-0.69	1.33	1.36
96.00	95.98	1.2	226.3	-1.18	-0.71	1.31	1.37
97.00	96.98	1.1	234.3	-1.19	-0.72	1.31	1.39
98.00	97.98	1.1	238.1	-1.21	-0.73	1.41	1.41
99.00	98.98	1.1	222.8	-1.22	-0.75	1.42	1.43
100.00	99.98	1.1	229.5	-1.24	-0.76	1.45	1.45
101.00	100.98	1.2	229.5	-1.25	-0.77	1.47	1.47
102.00	101.98	0.9	228.0	-1.26	-0.78	1.52	1.49
103.00	102.98	1.3	230.4	1.27	-0.80	1.52	1.50

Cross Section

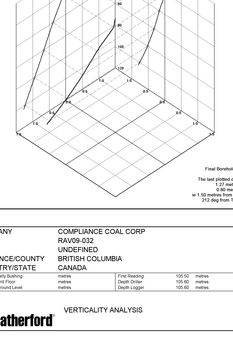
All Figures are Log Depths in metres

Target Origin Depth 13.80
Last Plotted Depth 106.00
Depth Markers annotated in multiples of 10
First Depth Marker at 20
Last Depth Marker at 100

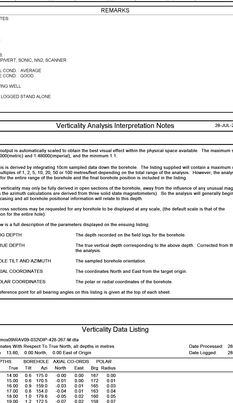
Plot With Respect to True North
Scale 1:50
Declination 16.1 deg East



Vertical Sections



Depth Correction Analysis



Depths Log	Depths True	Depths Log	Depths True
14.00	14.00	81.00	80.98
15.00	15.00	82.00	81.98
16.00	16.00	83.00	82.98
17.00	17.00	84.00	83.98
18.00	18.00	85.00	84.98
19.00	19.00	86.00	85.98
20.00	20.00	87.00	86.98
21.00	21.00	88.00	87.98
22.00	22.00	89.00	88.98
23.00	23.00	90.00	89.98
24.00	24.00	91.00	90.98
25.00	25.00	92.00	91.98
26.00	26.00	93.00	92.98
27.00	27.00	94.00	93.98
28.00	28.00	95.00	94.98
29.00	29.00	96.00	95.98
30.00	30.00	97.00	96.98
31.00	31.00	98.00	97.98
32.00	32.00	99.00	98.98
33.00	33.00	100.00	99.98
34.00	34.00	101.00	100.98
35.00	35.00	102.00	101.98
36.00	36.00	103.00	102.98
37.00	37.00	104.00	103.98
38.00	38.00	105.00	104.98
39.00	39.00	106.00	105.98
40.00	40.00		
41.00	41.00		
42.00	42.00		
43.00	43.00		
44.00	44.00		
45.00	45.00		
46.00	46.00		
47.00	46.99		
48.00	47.99		
49.00	48.99		
50.00	49.99		
51.00	50.99		
52.00	51.99		
53.00	52.99		
54.00	53.99		
55.00	54.99		
56.00	55.99		
57.00	56.99		
58.00	57.99		
59.00	58.99		
60.00	59.99		
61.00	60.99		
62.00	61.99		
63.00	62.99		
64.00	63.99		
65.00	64.99		
66.00	65.99		
67.00	66.99		
68.00	67.99		
69.00	68.99		
70.00	69.99		
71.00	70.99		
72.00	71.99		
73.00	72.99		
74.00	73.99		
75.00	74.99		
76.00	75.99		
77.00	76.99		
78.00	77.99		
79.00	78.99		
80.00	79.99		

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth 13.80
Last Plotted Depth 106.00

Plot With Respect to True North
Declination 16.1 deg East

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-032		
FIELD	UNDEFINED		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	105.50 metres
Elevation Drill Floor	metres	Depth Driller	105.60 metres
Elevation Ground Level	metres	Depth Logger	105.60 metres

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VERTICALITY ANALYSIS

COMPOSITE COAL LOG

COMPLIANCE COAL CORP
RAV09-003
UNDEFINED
BRITISH COLUMBIA
CANADA

Elevation Kelly Bushing	metres	Final Reading	446.00 metres
Elevation Ground Level	metres	Depth Logged	446.00 metres
Elevation Ground Level	metres	Depth Logger	445.00 metres

Weatherford

COMPOSITE COAL LOG

BOREHOLE RECORD

Bit Size millimetres	Depth From metres	Depth To metres
159.000	0.00	446.00
159.000	25.00	313.00
159.000	313.00	446.00
151.000	0.00	25.00

Last Edited: 24-AUG-2009 13:47

CASING RECORD

Type	Size millimetres	Drive Depth metres	Weight kg/m
	168.300	12.00	32.74

REMARKS

CLOCKWISE
DATUM: 3000M

NORTHING: 5488800

TOTAL RUNS:
SCRAPING RPM: MSG: VSK

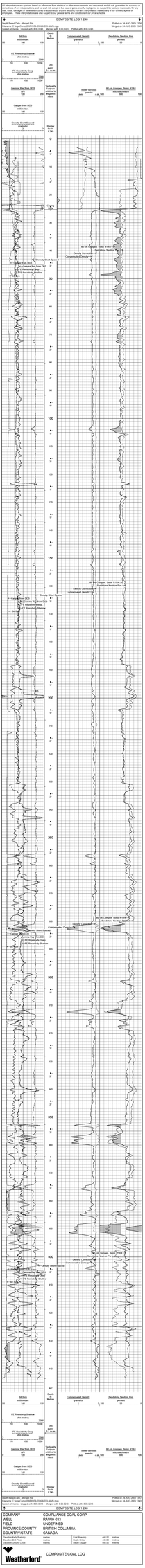
BORE WALL LOAD: POOR
BORE HOLE LOAD: POOR

ADDITIONAL COMMENTS:

WELL WAS LOSSED BYNEALAON

WELL WAS LOSSED BYNEALAON DRILLERS: DID NOT RUN REPRETECIUE TO THESE HOLE CONDITIONS. CHECKED HOLE BRIDGE CLEAR FOR CASING. PREPARTO RUNNING SALLOWER TOOLS. HOLE CONDITIONS ALSO AFFECTED VERTICALITY LOG. FURTHERMORE, DUE TO THESE CONDITIONS, NO REPEAT SECTIONS WERE RUN

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretation, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by us or our employees. We shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation or any other services performed by us or our employees.


COMPOSITE LOG 1:240
Depth Based Data - Merged File
Filename: C:\Input\Cores\RAV09-003\RAV09-003-MAIN.dat
Station Identifier: Logged with: 8.06.0320 Merged with: 8.06.0320 Pickup Left: 8.06.0243
Printed on 24-AUG-2009 13:47
Merged on 24-AUG-2009 13:45
Bit Size millimetres
FC Resistivity Medium ohm metres
FC Resistivity Deep ohm metres
Gamma Ray from DDS microroentgens
Caliper from DDS millimetres
Density Short Spaced kilograms
Compensated Density grams/cc
Sandstone Neutron Por percent
Vertically Calibrated Magnetic Susceptibility
Density Correction
Compensated Density
Density Short Spaced
Gamma Ray from DDS
FC Resistivity Medium
FC Resistivity Deep
BE-Lith Compact, Sony SY-M

Weatherford

Weatherford Canada Partnership
Calgary, Alberta

Field Print
Calculation Method: Minimum Curvature
Vertical Section Plane: 0.00 Azimuth
Vertical Section Origin: 0.00 N, 0.00 E
TVD Reference Elevation: 1.00 m above Ground Level
Grid Convergence: 0.00 Deg

Surface Location
Lat: 51.05 N, Long: 114.05 W
Grid: NAD 83 - UTM - 12N
N: 5656875.00, E: 614000.00

Bottom Hole Location
Lat: 51.05 N, Long: 114.05 W
Grid: NAD 83 - UTM - 12N
N: 5656875.00, E: 614000.00

Vertical Section Data

Azimuth	Vertical Depth	Vertical Section	Displacement	Dogleg Severity
0.00	0.00	0.00	0.00	0.00
0.00	1000.00	0.00	0.00	0.00
0.00	2000.00	0.00	0.00	0.00
0.00

DUAL FOCUSSED ELECTRIC SAMMA RAY CALIPER

COMPANY	COMPLIANCE COAL CORP
WELL	PELLS 1-16-49-7-W5
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Latitude	0.000	Longitude	0.000
Depth Datum	KB	Depth Datum Elevation	0.00
Log Measured From	KB	Log Measured From Elevation	0.00
Permanent Datum	GL	Permanent Datum Elevation	0.00

Weatherford

DUAL FOCUSSED ELECTRIC SAMMA RAY, CALIPER

RUNNING RECORD

Run Number	Depth Driller	Depth Logger
100.000	0.00	0.00
200.000	0.00	0.00
300.000	0.00	0.00

Log Date: 24-Nov-2006 CST
Unit Number: 1
Location: 10-16-49-07-W5M

CASING RECORD

Type	Size (mm)	Weight (kg/m)	Grade	Top (m)	Bottom (m)
Surface	244.500	0.000	J55	0.00	0.00
Production	139.700	0.000	J55	0.00	0.00

REMARKS

CLOCKWISE
TOOL FACE: 180.000

NOTE WELL: SAMADE

CALIPER
CALIBRATION: 200 MM
CALIBRATION: 1000 MM

NOTE WELL LOGS - PICUP
LOG NO LOGS - 1 RUN

NOTE WELL SERIES: WR3

LOGS WERE CORRELATED ON ZONE

DUAL FOCUSSED ELECTRIC WITH SAMMA RAY, CALIPER, 100 KIT IN AN INSTRUMENTED 4.5" TO 7.5 MINI SOLID CENTRALIZER, CABLE SPEED WAS 30 MPM. FOCUS PRESSURE WAS 1000 PSI. FOCUSING WAS GOOD. FOCUS, SOLID CENTRALIZER AND LIMITED TO CENTRALIZER LOG. FURTHERMORE, DUE TO THE CONDITIONS OF THE HOLE, THE CALIPER WAS LIMITED TO 200 MM.

THE INTERPRETATIONS AND OPINIONS BASED ON INFORMATION FROM WELLS OTHER THAN THE WELL UNDER EXAMINATION ARE BASED ON PROBABILITIES AND MAY NOT BE ACCURATE OR CORRECT. WESTHERFORD ASSUMES NO RESPONSIBILITY FOR ACTS BASED ON OPINIONS OR INTERPRETATIONS. THERE ARE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, AS TO THE ACCURACY, ADEQUACY OR COMPLETENESS OF THE INTERPRETATIONS OR OPINIONS BASED ON INFORMATION FROM WELLS OTHER THAN THE WELL UNDER EXAMINATION. THERE ARE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, AS TO THE FITNESS FOR A PARTICULAR PURPOSE OF ANY OPINION, AGREEMENT, ACCEPTANCE, MERCHANTABILITY, OR ANY OTHER MATTER WITH RESPECT TO ANY OPINION. WESTHERFORD ASSUMES NO RESPONSIBILITY FOR ANY DAMAGES OR LOSSES ARISING FROM ANY CAUSE RELATING TO THE ACTS OR OPINIONS PROVIDED.

MAIN LOG 1:240
Gamma Ray
0
150
Caliper from 200
100
200
Mud Density
1000
1500
Log Type: Log - Weight: 0
Gamma Source: Legend# 24B-2006
Weight: 0.00 CGS
Date: 24-Nov-2006
Time: 0:00 CST
Weight: 0.00 CGS
Time: 0:00 CST
Pitch: 0.00 CGS
Weight: 0.00 CGS
Pitch: 0.00 CGS
Weight: 0.00 CGS
Pitch: 0.00 CGS
Weight: 0.00 CGS

Company	COMPLIANCE COAL CORP
Well	RAV08-033
Field	UNDEFINED
Province/County	BRITISH COLUMBIA
Country/State	CANADA
Elevation Kelly Bushing	metres
Elevation Ground Level	metres
Elevation Casing Flange	metres
Drill Hole Number	RAV08-033
Date Drilled	24-JUL-2008
Total Depth	49.00 metres
Log Date	24-JUL-2008
Log Number	1
Run Number	1
Depth Driller	49.00 metres
Depth Logged	49.00 metres
Bottom Log Interval	48.00 metres
Top Log Interval	0.00 metres
Casing Driller	0.00 metres @ 0.00 metres
Casing Logged	0.00 metres
Bit Size	152.400 mm
Type Fluid in Hole	WATER
Density	kg/m3
Viscosity	mPa.s
PH	
Fluid Loss	mL
Source of Sample	
Rm @ Measured Temperature	ohmm @ deg C
Rmf @ Measured Temperature	ohmm @ deg C
Rmc @ Measured Temperature	ohmm @ deg C
Source Rmf / Rmc	
Rm @ BHT	ohmm @ deg C
Time Since Circulation	hrs
Time Since Logging	hrs
Max Recorded Temperature	deg C
Equipment Number	1001
Location	
Recorded By	
Witnessed By	

DUAL MINIPLOT

BOREHOLE RECORD

Bit Size (millimetres)	Depth From (metres)	Depth To (metres)	Last Edited: 24-JUL-2008 13:47 Bit Run
108.000	0.00	49.00	1
108.000	49.00	49.00	2
152.400	0.00	49.00	3
152.400	49.00	49.00	4

CASING RECORD

Type	Size (millimetres)	Depth From (metres)	Depth To (metres)	Shoe Depth (metres)	Weight (kg/m)
	108.000	0.00	49.00	49.00	28.76

REMARKS

COORDINATES
DATING: 3M3SR

NORTHING: 5486500

TOTAL RUNS:
DRAWING: RAV_MS2_VSH

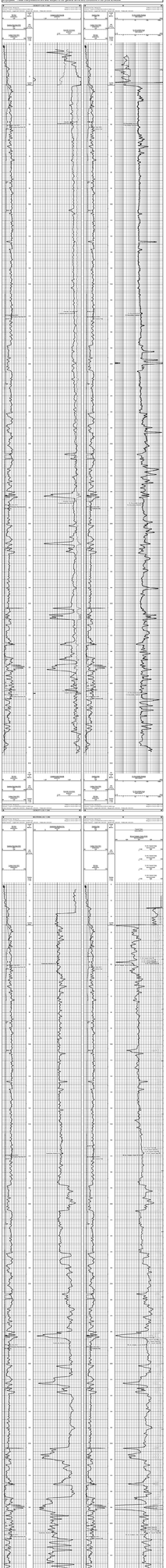
BORE WALL COND: POOR
BORE WALL COND: POOR

CASING LOGGED WELL:

WELL WAS LOGGED STAND ALONE

WELL CASED IN SEVERAL TIMES DUE DRILLERS DIFFICULTY WAS REPEATS DUE TO THESE HOLE CONDITIONS. CAESING HOLE WITH SUMMIT TOOL PRIOR TO RUNNING INCLUDED TO OLD HOLE CONDITIONS ALSO APPIED TWO VERTICALITY LOG. FURTHERMORE, DUE TO THESE CONDITIONS, NO REPRIZE SECTION WERE RUN.

All interpretations are opinions based on inferences from electrical or other measurements and service, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilfull negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.



COMPANY	COMPLIANCE COAL CORP
WELL	RAV08-033
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Ground Level	metres
Elevation Casing Flange	metres
Drill Hole Number	RAV08-033
Date Drilled	24-JUL-2008
Total Depth	49.00 metres
Log Date	24-JUL-2008
Log Number	1
Run Number	1
Depth Driller	49.00 metres
Depth Logged	49.00 metres
Bottom Log Interval	48.00 metres
Top Log Interval	0.00 metres
Casing Driller	0.00 metres @ 0.00 metres
Casing Logged	0.00 metres
Bit Size	152.400 mm
Type Fluid in Hole	WATER
Density	kg/m3
Viscosity	mPa.s
PH	
Fluid Loss	mL
Source of Sample	
Rm @ Measured Temperature	ohmm @ deg C
Rmf @ Measured Temperature	ohmm @ deg C
Rmc @ Measured Temperature	ohmm @ deg C
Source Rmf / Rmc	
Rm @ BHT	ohmm @ deg C
Time Since Circulation	hrs
Time Since Logging	hrs
Max Recorded Temperature	deg C
Equipment Number	1001
Location	
Recorded By	
Witnessed By	

Weatherford

DUAL MINIPLOT

Sperry-Sun Drilling Services

Geosteering Plot

Well: 15/9-F-1 A
Wellbore: 15/9-F-1 A
Field: Gullfaks
Rig: Gullfaks C
Date: 2010-06-01
Time: 00:00:00
Depth: 3500.00 m

Gamma Ray: 0 GAPI - 150 GAPI
Resistivity: 0.2 Ohm.m - 2000 Ohm.m
Depth: 3500 m - 4000 m

Gamma Ray: 0 GAPI - 150 GAPI
Resistivity: 0.2 Ohm.m - 2000 Ohm.m
Depth: 4000 m - 4500 m

Gamma Ray: 0 GAPI - 150 GAPI
Resistivity: 0.2 Ohm.m - 2000 Ohm.m
Depth: 4500 m -

ROCK COMPENSATED SONIC

COMPANY COMPLIANCE COAL CORP
WELL RIVER 013
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY CANADA

Elevation: KB 0.00 m Log Date: 30-Oct-2005
Permanent Datum: Log Measured From: KB
Depth Datum: KB Drilling Measured From: KB

Run No.	First Reading	Last Reading	Hole Size
100.000	27.00	1111.00	177.8
200.000	1111.00	1116.00	177.8
300.000	1116.00	1120.00	177.8

CASING RECORD

Type	Size	Weight	Grade	Top	Bottom
Casing	244.5 mm	59.53 kg/m	J55	KB	27.00 m

REMARKS

COMMENTS:
LOGGING UNIT:
LOGGING ENGINEER: SANDIS
OPERATOR:
CALIBRATION BY: ARG, WG
Date Log Run: 30-Oct-2005
Date Log Rec'd: 31-Oct-2005
DATA FORMAT: ARG
DATA FORMAT DESCRIPTION: ASCII
DATA FORMAT DESCRIPTION: ASCII

DUE TO WARPED ROCK BEHIND THE CASING, THE SONIC TRACE IS NOT ACCURATE. THERE ALSO IS CONSTANT CAVING ALL THE WAY DOWN THE HOLE. THE SONIC TRACE IS ALSO SHIFTED TO THE RIGHT

VERTICALITY ANALYSIS

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-033
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA CANADA

BOREHOLE RECORD

Last Edited: 24-AUG-2009 13:47

Bit Size (millimetres)	Depth From (metres)	Depth To (metres)
108.500	0.00	25.30
105.000	25.30	212.00
103.000	212.00	262.00
101.000	262.00	444.00

CASING RECORD

Type	Size (millimetres)	Depth From (metres)	Depth To (metres)	Weight (kg/metre)
	108.500	0.00	25.30	39.76

REMARKS

COORDINATES
EASTING: 364380

NORTHING: 5488000

TOOL RUNS
DDMJAG, WRS, MS2, VS4

BORE WALL COND. : POOR
BORE HOLE COND. : POOR

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE.

HOLE CAVES IN SEVERAL TIMES ON DRILLERS. DID NOT RUN REPEATS DUE TO THESE HOLE CONDITIONS. CHECKED HOLE WITH DRILLERS AND THEY HAVE NOTHING IN THE HOLE. THESE HOLE CONDITIONS ALSO AFFECTED VERTICALITY LOG. FURTHERMORE, DUE TO THESE CONDITIONS, NO REPEAT SECTIONS WERE RUN.

Verticality Analysis Interpretation Notes

24-AUG-2009 13:36

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(metric) and 1:48000(imperial), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 equally spaced points. If the 200 limit is reached, the sample interval will be increased to cover the entire depth range. The analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded at the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logs\Cosmos\RAV09-033\VS4-238-M.dls

All Co-ordinates With Respect To True North, all depths in metres

First Depth: 3.10, 0.00 North, 0.00 East of Origin

Date Processed: 24-AUG-2009
Date Logged: 23-AUG-2009

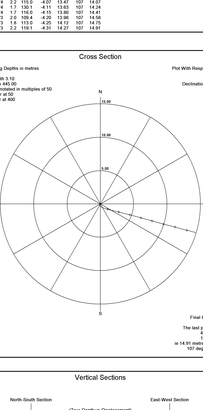
BEFORE		BOREHOLE		AXIAL COUNTER		POLAR	
Log	True	Tilt	Azi	North	East	Brg	Radius
9.00	8.90	1.9	292.0	-0.05	-0.10	245	0.12
13.00	13.00	2.0	147.0	-0.18	-0.13	216	0.23
18.00	18.00	2.0	135.9	-0.30	-0.03	180	0.30
23.00	22.99	2.0	141.3	-0.41	0.10	166	0.42
28.00	27.99	2.0	142.0	-0.53	0.24	155	0.58
33.00	32.98	1.9	121.1	-0.57	0.37	146	0.69
38.00	37.98	2.3	119.2	-0.63	0.56	138	0.84
43.00	42.97	1.7	122.4	-0.68	0.73	133	0.99
48.00	47.97	1.7	120.4	-0.74	0.89	130	1.15
53.00	52.97	2.1	111.2	-0.79	1.06	127	1.32
58.00	57.97	2.5	121.1	-0.84	1.23	125	1.49
63.00	62.97	1.7	106.4	-0.86	1.39	122	1.65
68.00	67.96	2.0	114.9	-0.89	1.54	120	1.81
73.00	72.96	2.0	108.3	-0.91	1.69	119	1.96
78.00	77.96	1.7	110.7	-1.01	1.81	118	2.16
83.00	82.95	1.9	114.9	-1.12	1.94	117	2.37
88.00	87.95	1.8	108.0	-1.20	2.24	116	2.60
93.00	92.95	2.0	114.9	-1.13	2.40	115	2.86
98.00	97.94	2.1	116.1	-1.17	2.55	115	3.02
103.00	102.94	2.4	111.2	-1.25	2.71	114	3.19
108.00	107.94	2.5	115.9	-1.33	2.88	114	3.38
113.00	112.94	2.4	108.3	-1.29	3.07	113	3.53
118.00	117.93	2.0	110.1	-1.34	3.24	112	3.50
123.00	122.93	2.0	108.3	-1.38	3.39	112	3.65
128.00	127.93	2.0	107.4	-1.42	3.55	112	3.80
133.00	132.92	1.7	116.0	-1.46	3.74	111	4.02
138.00	137.92	1.8	113.5	-1.51	3.92	111	4.21
143.00	142.92	1.9	113.8	-1.55	4.07	111	4.38
148.00	147.91	1.8	114.4	-1.58	4.24	110	4.53
153.00	152.91	2.1	114.4	-1.63	4.41	110	4.70
158.00	157.91	1.8	116.2	-1.67	4.57	110	4.87
163.00	162.91	1.8	114.9	-1.71	4.73	110	5.04
168.00	167.90	2.3	114.5	-1.75	4.91	110	5.22
173.00	172.90	2.1	120.5	-1.81	5.08	110	5.40
178.00	177.90	2.0	118.3	-1.86	5.24	109	5.57
183.00	182.90	2.2	105.4	-1.90	5.42	109	5.74
188.00	187.89	1.7	109.4	-1.94	5.58	109	5.91
193.00	192.89	2.3	110.7	-1.99	5.75	109	6.08
198.00	197.88	2.1	119.3	-2.03	5.91	109	6.25
203.00	202.88	2.0	117.6	-2.08	6.07	109	6.42
208.00	207.88	1.9	115.9	-2.12	6.23	109	6.58
213.00	212.88	1.7	115.5	-2.17	6.39	109	6.75
218.00	217.87	1.9	114.9	-2.21	6.55	109	6.92
223.00	222.87	2.1	118.7	-2.26	6.72	109	7.09
228.00	227.87	2.0	123.8	-2.31	6.89	109	7.26
233.00	232.86	2.1	110.2	-2.35	7.05	109	7.44
238.00	237.86	2.1	113.1	-2.40	7.22	109	7.61
243.00	242.86	2.1	115.9	-2.45	7.39	109	7.78
248.00	247.85	1.9	118.9	-2.49	7.56	109	7.96
253.00	252.85	2.0	115.9	-2.54	7.73	108	8.13
258.00	257.85	2.0	114.9	-2.58	7.89	108	8.30
263.00	262.84	2.0	108.6	-2.64	8.06	108	8.49
268.00	267.84	1.9	113.3	-2.69	8.24	108	8.66
273.00	272.84	2.0	114.9	-2.73	8.41	108	8.83
278.00	277.84	1.7	114.2	-2.78	8.57	108	9.00
283.00	282.83	2.0	121.6	-2.83	8.74	108	9.18
288.00	287.83	1.9	112.6	-2.87	8.91	108	9.35
293.00	292.83	2.1	114.7	-2.92	9.07	108	9.53
298.00	297.83	2.1	114.9	-2.97	9.24	108	9.70
303.00	302.83	1.9	108.7	-3.01	9.41	108	9.88
308.00	307.82	1.7	104.8	-3.05	9.58	108	10.05
313.00	312.82	2.1	110.7	-3.10	9.74	108	10.23
318.00	317.81	2.4	120.5	-3.14	9.93	108	10.41
323.00	322.81	2.7	115.1	-3.18	10.13	107	10.59
328.00	327.80	2.6	119.3	-3.23	10.31	107	10.77
333.00	332.80	2.3	113.9	-3.28	10.45	107	10.95
338.00	337.79	2.4	116.2	-3.33	10.59	107	11.13
343.00	342.79	2.6	120.5	-3.41	10.74	107	11.32
348.00	347.79	1.8	117.0	-3.41	10.86	107	11.50
353.00	352.78	2.3	117.0	-3.45	10.99	107	11.68
358.00	357.78	1.7	115.9	-3.50	11.14	107	11.87
363.00	362.78	2.1	119.2	-3.55	11.53	107	12.06
368.00	367.77	2.4	120.8	-3.61	11.91	107	12.25
373.00	372.77	2.4	115.4	-3.66	11.68	107	12.44
378.00	377.76	2.4	117.0	-3.71	12.07	107	12.63
383.00	382.76	2.0	121.7	-3.77	12.24	107	12.82
388.00	387.76	2.1	112.1	-3.82	12.41	107	12.99
393.00	392.75	2.1	114.9	-3.86	12.58	107	13.17
398.00	397.75	2.0	101.1	-3.90	12.77	107	13.35
403.00	402.75	1.6	106.1	-3.94	12.93	107	13.53
408.00	407.74	1.8	114.9	-3.98	13.09	107	13.71
413.00	412.74	1.8	116.9	-4.03	13.26	107	13.89
418.00	417.74	2.2	115.0	-4.07	13.47	107	14.07
423.00	422.74	1.9	120.8	-4.12	13.65	107	14.26
428.00	427.74	1.7	116.9	-4.15	13.80	107	14.41
433.00	432.73	2.1	117.6	-4.20	13.97	107	14.59
438.00	437.73	1.8	115.9	-4.24	14.12	107	14.75
443.00	442.73	2.2	119.1	-4.31	14.27	107	14.91

Cross Section

All Figures are Log Depths in metres

Target Origin Depth: 3.10
Last Plotted Depth: 445.00
Vertical Scale Displayed in multiples of 50
First Depth Marker at 50
Last Depth Marker at 400

Plot With Respect to True North
Scale: 1:200
Declination: 18.1 deg East

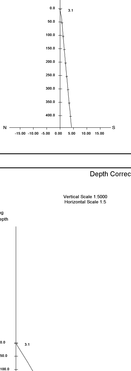


Final Borehole Position

The last plotted depth is at
2.10 metres South
14.27 metres East
ie 14.91 metres from the origin
107 deg from True North

Vertical Sections

North-South Section

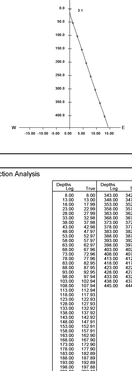


East-West Section

(True Depth vs Displacement)

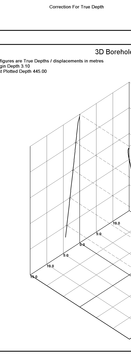
Vertical Scale 1:5000
Horizontal Scale 1:500

Markers annotated as above



Depth Correction Analysis

Vertical Scale 1:5000
Horizontal Scale 1:5



Depths Log	Depths True	Log	True
0.00	0.00	341.00	341.78
13.00	13.00	347.00	347.78
18.00	17.99	353.00	352.78
23.00	22.99	358.00	357.78
28.00	27.99	363.00	362.78
33.00	32.98	368.00	367.78
38.00	37.98	373.00	372.77
43.00	42.98	378.00	377.77
48.00	47.97	383.00	382.78
53.00	52.97	388.00	387.78
58.00	57.97	393.00	392.78
63.00	62.97	398.00	397.75
68.00	67.96	403.00	402.75
73.00	72.96	408.00	407.75
78.00	77.96	413.00	412.74
83.00	82.95	418.00	417.74
88.00	87.95	423.00	422.74
93.00	92.95	428.00	427.74
98.00	97.94	433.00	432.73
103.00	102.94	438.00	437.73
108.00	107.94	445.00	444.73
113.00	112.94		
118.00	117.93		
123.00	122.93		
128.00	127.93		
133.00	132.92		
138.00	137.92		
143.00	142.92		
148.00	147.91		
153.00	152.91		
158.00	157.91		
163.00	162.91		
168.00	167.90		
173.00	172.90		
178.00	177.90		
183.00	182.90		
188.00	187.89		
193.00	192.89		
198.00	197.88		
203.00	202.88		
208.00	207.88		
213.00	212.88		
218.00	217.87		
223.00	222.87		
228.00	227.87		
233.00	232.86		
238.00	237.86		
243.00	242.86		
248.00	247.85		
253.00	252.85		
258.00	257.85		
263.00	262.84		
268.00	267.84		
273.00	272.84		
278.00	277.84		
283.00	282.83		
288.00	287.83		
293.00	292.83		
298.00	297.83		
303.00	302.83		
308.00	307.82		
313.00	312.82		
318.00	317.81		
323.00	322.81		
328.00	327.80		
333.00	332.80		
338.00	337.79		
343.00	342.79		
348.00	347.79		
353.00	352.78		
358.00	357.78		
363.00	362.78		
368.00	367.77		
373.00	372.77		
378.00	377.76		
383.00	382.76		
388.00	387.76		
393.00	392.75		
398.00	397.75		
403.00	402.75		
408.00	407.74		
413.00	412.74		
418.00	417.74		
423.00	422.74		
428.00	427.74		
433.00	432.73		
438.00	437.73		
443.00	442.73		

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth: 3.10
Last Plotted Depth: 445.00

Plot With Respect to True North
Declination: 18.1 deg East

Final Borehole Position

The last plotted depth is at
2.10 metres South
14.27 metres East
ie 14.91 metres from the origin
107 deg from True North

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-033		
FIELD	UNDEFINED		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	Find Reading	444.00 metres
Elevation Drill Floor	metres	Depth Driller	448.00 metres
Elevation Ground Level	metres	Depth Logger	444.00 metres

Weatherford

VERTICALITY ANALYSIS

Weatherford

COAL COMPANY
CHAIN RAY CALIPER
COAL SEAM ZONES

WELL	COAL COMPANY
FIELD	CHAIN RAY CALIPER
COUNTY	COAL SEAM ZONES
PROVINCE/STATE	BRITISH COLUMBIA
COUNTRY	CANADA
Surface Location	Lat: N 0 Deg 0 Min 0.00 Sec Long: W 0 Deg 0 Min 0.00 Sec
Elevation	KB: 0.00 m DF: 0.00 m GL: 0.00 m
Log Date	Thursday, January 01, 1900
Log Number	0
Run Number	One
Depth Reference	KB

SCHEDULE FOR COAL

Schedule	Length
Depth Reference	KB
Start Depth	0.00 m
Stop Depth	0.00 m
Step	0.00 m
Combinable	No
Direction	Down
Log Speed	0.00 m/min
Sample Rate	0.00 m
Sample Type	Point

REMARKS

Logged Interval
Casing
Bit Size
Fluid in Hole
Max Temp
Equipment
Equipment Left in Hole
Recorded Data
Max Rec Temp 0.00 C
Calibrations
Max Rec Rate 0.00 m/min
Comments

Logging Company: Weatherford Canada Partnership
Operating Rig Time: Logging Company: 0.00 hrs Other Company: 0.00 hrs
Logging Company Personnel: Operator: Witness:
Operating Company Representative: Witness:

CALIPER

Caliper Type: Chain Ray Caliper
Calibration Method: Calibration Date: Calibration Operator: Calibration Witness:
Calibration Results: Calibration Comments:
Tool Orientation: Tool Eccentering: Caliper Arm Length: Caliper Arm Type:
Caliper Arm Position: Caliper Arm Pad Type: Caliper Arm Pad Size:
Caliper Arm Pad Material: Caliper Arm Pad Condition:
Caliper Arm Pad Number: Caliper Arm Pad Spacing:
Caliper Arm Pad Offset: Caliper Arm Pad Orientation:
Caliper Arm Pad Angle: Caliper Arm Pad Angle Offset:
Caliper Arm Pad Angle Offset Direction:
Caliper Arm Pad Angle Offset Direction Reference:
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Caliper Arm Pad Angle Offset Direction Reference

DIPMETER ANALYSIS

COMPANY: COMPLIANCE COAL CORP
WELL: RAV09-034
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

Weatherford

BOREHOLE RECORD

Last Edited: 23-AUG-2009 00:36
Hole Number: 1

Bit Size millimetres	Depth From metres	Depth To metres
250.000	13.00	19.00
200.000	19.00	150.00
146.000	150.00	327.20

CASING RECORD

Type	Size millimetres	Depth From metres	Depth To metres	Shoe Depth metres	Weight kilograms/metre
	200.000	0.00	13.00		29.76

REMARKS

COORDINATES
CANADA
BASE
NAD27
NORTHING
GRIDRD

TOOL NAME
WRLCDM,WALLVERT,DIP,STRAC

BORE HOLE CONDITION - GOOD
BORE HOLE STRAC - GOOD

HOW FAR CLEANED WELL
0

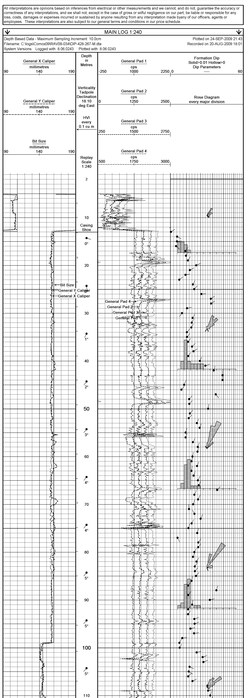
WELL WAS LOGGED STAND ALONE

Any interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

MAIN LOG 1:240

Depth Based Data - Maximum Sampling Increment: 10.0cm
Filename: C:\logs\Compliance\RAV09-034\DIP-428-267-W.dip
System Versions: Logged with: 8.08.02(K) Plotted with: 8.08.02(K)

Plotted on 24-SEP-2009 21:40
Recorded on 20-AUG-2009 16:03



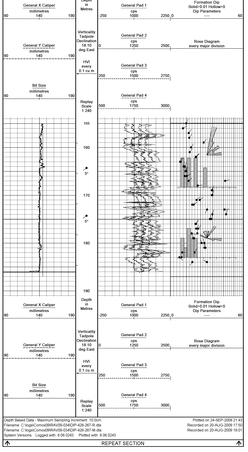
Depth Based Data - Maximum Sampling Increment: 10.0cm
Filename: C:\logs\Compliance\RAV09-034\DIP-428-267-W.dip
System Versions: Logged with: 8.08.02(K) Plotted with: 8.08.02(K)

Plotted on 24-SEP-2009 21:40
Recorded on 20-AUG-2009 16:03

REPEAT SECTION

Depth Based Data - Maximum Sampling Increment: 10.0cm
Filename: C:\logs\Compliance\RAV09-034\DIP-428-267-W.dip
System Versions: Logged with: 8.08.02(K) Plotted with: 8.08.02(K)

Plotted on 24-SEP-2009 21:40
Recorded on 20-AUG-2009 16:03



Depth Based Data - Maximum Sampling Increment: 10.0cm
Filename: C:\logs\Compliance\RAV09-034\DIP-428-267-W.dip
System Versions: Logged with: 8.08.02(K) Plotted with: 8.08.02(K)

Plotted on 24-SEP-2009 21:40
Recorded on 20-AUG-2009 16:03

BEFORE SURVEY CALIBRATION

C:\logs\Compliance\RAV09-034\DIP-428-267-W.dip

Last Edited on 20-AUG-2009, 17:07

General Constants: All 000

General Parameters		
Mud Resistivity	3.210	ohm-metres
Mud Resistivity Temperature	20.000	degrees C
Hole Diameter	146.000	millimetres
Density/Neutron Processing	Water Level Switch	

Hole/Borehole Volume and Differential Caliper Parameters

HVOL Caliper 1	General 4 Caliper
HVOL Caliper 2	General 7 Caliper
Hole Volume Diameter	146.000 mm
Caliper for Differential Caliper	General 4 Caliper

Bias Parameters

Periodic used	N/A
Hoedanley used	N/A
Bias Caliper	N/A
Bias Caliper 2	N/A

Borehole Geometry: V04 267

Configuration	Dipmeter	
Magnetic Declination	16.10 degrees	East

Magnetometer Parameters: V04 267

	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	244.000	244.000	244.000
Minimum	144.000	144.000	192.000

Level Cell Calibration: V04 267

Field Calibration on 20-AUG-2009,17:38

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
148.00	148.00	0.00	225.00	225.00	0.00
154.00	154.00	15.00	212.00	211.00	15.00
149.00	149.00	10.00	225.00	225.00	15.00
154.00	154.00	15.00	212.00	211.00	15.00
158.00	157.00	-6.00	0.00	0.00	0.00
162.00	166.00	-4.00	0.00	0.00	0.00
162.00	166.00	-4.00	0.00	0.00	0.00
162.00	166.00	2.00	0.00	0.00	0.00
162.00	166.00	2.00	0.00	0.00	0.00
162.00	166.00	2.00	0.00	0.00	0.00
161.00	200.00	4.00	0.00	0.00	0.00
161.00	200.00	4.00	0.00	0.00	0.00
1170	1170	0.00	0.00	0.00	0.00

Caliper Calibration: SGD 428

Base Calibration on 20-AUG-2009,17:38

Base Calibration

Reading No	Measured X	Measured Y	Calibrator Size (mm)
1	163	163	76.30
2	250	250	101.60
3	349	349	127.00
4	451	451	152.40
5	657	657	203.20
6	1170	1170	254.00

Reading No	Pad 1 Offset (mm)	Pad 2 Offset (mm)	Pad 3 Offset (mm)	Pad 4 Offset (mm)
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000

Caliper Constants: SGD 428

Caliper Difference for SWET 3.000 millimetres

Gamma Calibration: SGD 428

Field Calibration on 20-AUG-2009,17:38

	Measured	Calibrated (API)
Background	0	0
Calibrator (Gross)	130	411
Calibrator (Net)	130	436

Gamma Constants: SGD 428

Last Edited on 31-MAY-2009,11:04

Gamma Calibrator Number 426

Elevation Kelly Bushing	metres
Elevation Ground Level	metres
Elevation Ground Level	metres
First Reading	190.00 metres
Last Reading	327.20 metres
Depth Logger	150.00 metres
Depth Logger	150.00 metres

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

COMPANY COMPLIANCE COAL CORP
WELL RAV09-034
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Elevation Kelly Bushing metres Point Recording 100.00 metres
Elevation Ground 96.00 metres Depth Reference 100.00 metres
Elevation Ground/Level metres Depth Logged 98.38 metres

Weatherford

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

BOREHOLE RECORD

Last Edited: 20-AUG-2009 00:00

Bit Size (MM)	From (KB)	To (KB)
311.00	0.00	18.00
216.000	18.00	98.00
152.400	98.00	100.00

CASING RECORD

Type	Size (MM)	Depth (KB)	Shoe Depth (KB)	Weight (KG/M)
CONDUCTOR	406.400	18.00	18.00	87.10

REMARKS

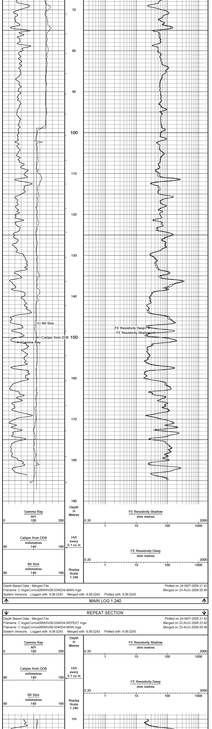
CLEARANCE DATED: 28-NOV-2007
TOTAL DEPTH DRILLED: 100.00 M
BOTTOM LOG INTERVAL: 98.00 M
TOP LOG INTERVAL: 0.00 M
BOTTOM LOG INTERVAL: 98.00 M
WELL WAS CLOSED BY:NO ALARM

All interpretations are opinions based on inferences from electrical or other measurements and are normal, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our standard terms and conditions as set forth in our current price schedule.

MAIN LOG 1:240

Depth Based Data - Merged File
Filename: C:\logs\Canada\RAV09-034\GAMMA RAY.log
Filename: C:\logs\Canada\RAV09-034\DIGI-WRITE.log
Generated - Logged with 9.38-DIGI Written with 9.38-DIGI Pulled with 9.38-DIGI

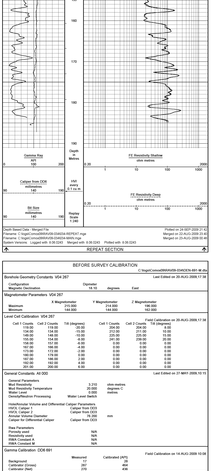
Printed on 20-SEP-2009 21:42
Merged on 20-AUG-2009 00:40



REPEAT SECTION

Depth Based Data - Merged File
Filename: C:\logs\Canada\RAV09-034\GAMMA REPEAT.log
Filename: C:\logs\Canada\RAV09-034\DIGI-REPEAT.log
Generated - Logged with 9.38-DIGI Written with 9.38-DIGI Pulled with 9.38-DIGI

Printed on 20-SEP-2009 21:42
Merged on 20-AUG-2009 00:40



BEFORE SURVEY CALIBRATION

Last Edited on 20-AUG-2009 17:38

Borehole Geometry Constants VDA 267

Configuration Magnetic Declination	Diameter 19.10	degrees	East

Borehole Geometry Parameters VDA 267

Minimum	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	144.000	144.000	160.000
Average	144.000	144.000	160.000

Last Calibrated on 26-AUG-2009 17:34

Level Cell Calibration VDA 267

Cell Counts	Cell 0 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
124.00	124.00	-0.00	272.00	272.00	0.00
124.00	124.00	-0.00	272.00	272.00	0.00
124.00	124.00	-0.00	272.00	272.00	0.00
124.00	124.00	-0.00	272.00	272.00	0.00
158.00	157.00	-0.80	0.00	0.00	0.00
158.00	157.00	-0.80	0.00	0.00	0.00
158.00	157.00	-0.80	0.00	0.00	0.00
158.00	157.00	-0.80	0.00	0.00	0.00
160.00	146.00	2.00	0.00	0.00	0.00
160.00	146.00	2.00	0.00	0.00	0.00
160.00	146.00	2.00	0.00	0.00	0.00
160.00	146.00	2.00	0.00	0.00	0.00

Last Calibrated on 27-MAY-2009 10:13

General Constants AV 002

General Parameters	
Mud Resistivity	3.310 ohm-metres
Mud Density Temperature	21.00 deg C
Meter Level	0.000 metres
Mud Density Processing	Water Level Corrected
Hole/Annular Volume and Differential Caliper Parameters	
HDVS Caliper 1	Caliper from DDS
HDVS Caliper 2	Caliper from DDS
Hole Volume Processing	Caliper from DDS mm
Caliper for Differential Caliper	Caliper from DDS
Raw Parameters	
Mud Density	N/A
Resistivity Level	N/A
HDVS Caliper 1	N/A
HDVS Caliper 2	N/A

Last Edited on 27-MAY-2009 10:13

Gamma Calibration CDB 681

	Measured (API)	Calibrated (API)
Background	0.00	0.00
Calibrator (Cross)	270	270
Calibrator (Net)	270	270

Last Edited on 27-MAY-2009 10:48

Gamma Calibration CDB 681

Gamma Calibration Number 435

Last Edited on 27-MAY-2009 10:48

Base Calibration CDB 681

Base Calibration Run No	Measured Cpm	Calibrated (API)	Cpm/API
Reference 1	2865	1724	0.6021
Reference 2	N/A	N/A	N/A

Tilt Data	Measured	Calibrated (API)
Reference 1	2865	1724
Reference 2	N/A	N/A

Tilt Cpm	Measured	Calibrated (API)
Reference 1	2865	1724
Reference 2	N/A	N/A

Field Check at Base	Calibrated (API)	
	0.0	0.0
Field Check	Calibrated (API)	
	0.0	0.0

Last Edited on 7-JUN-2009 08:39

Base Calibration on 18-AUG-2009 08:11
Field Check on

Processing Type DCS
Density Source id 1314-0.0
Calibrator Density Number 2.000
Calibrator Source for Processing Calibrator Density
Density Calibration Coefficient 0.000
Mud Density 1.10 g/cc
Bed Filtrate Density 1.10 g/cc
Density Level 0.00
Density Scale 1.00
Density (g/cc) Depth (m)
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00
0.00 0.00

Mud Density Normalization

	Measured g/cc	Calibrated g/cc
SBD1 Point 1	1.00	1.00
SBD1 Point 2	1.00	1.00
LBD Point 1	1.00	1.00
LBD Point 2	1.00	1.00

Dry Hole Normalization

	Measured g/cc	Calibrated g/cc
SBD1 Point 1	1.00	1.00
SBD1 Point 2	1.00	1.00
LBD Point 1	1.00	1.00
LBD Point 2	1.00	1.00

Calipar Calibration CDB 681

Base Calibration on 18-AUG-2009 14:28
Field Calibration on

Base Calibration Reading No	Measured (mm)	Calibrator Ring (mm)
1	2014	76.20
2	2019	101.60
3	2023	127.00
4	2027	152.40
5	2031	177.80
6	4257	203.20

Field Calibration

Measured Calibrator (mm)	Actual Calibrator (mm)
0	0

Last Edited on 20-AUG-2009 17:38

Opmeter Constants SGC 429

Search Angle	45.00	degrees
Calibration Angle	0.00	degrees
Calibration Mode	Manual	
Caliper used in Calculations	Yes	
Caliper Source	Caliper	

Base Calibration on 26-AUG-2009 17:38

Base Calibration

Reading No	Measured X (mm)	Measured Y (mm)	Calibrator Size (mm)
1	260	260	101.60
2	260	260	101.60
3	260	260	101.60
4	447	447	203.20
5	447	447	203.20
6	447	447	203.20

Reading No	Pad 1 Offset (mm)	Pad 2 Offset (mm)	Pad 3 Offset (mm)	Pad 4 Offset (mm)
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000

Field Calibration on 26-AUG-2009 15:36

Calipar Calibration SGC 429

Gamma Calibration SGD 429

	Measured (API)	Calibrated (API)
Background	0.00	0.00
Calibrator (Cross)	120	470
Calibrator (Net)	120	470

Last Edited on 27-MAY-2009 17:38

Gamma Calibration SGD 429

Gamma Calibration Number 435

Last Edited on 28-MAY-2009 14:13

Gamma Constants MSI 398

Maximum Secondary Contrast	328.000	micro-seconds
Pad Transit Time	325.00	micro-seconds
Minimum Primary Contrast	325.000	micro-seconds
Sandstone Transit Time	182.000	micro-seconds
Density Source Spacing	0.000	metres
Source Pad Offset	0.000	metres
Typical Tool Type for UCS Curve	MCJA-20 on Stress 30454	
Density Calibration		
UCS Calibrator	0.0 UCS	metres/mm
Transmitter Receiver 0 Offset	0.000	metres
Transmitter Receiver 1 Offset	0.000	metres
Transmitter Receiver 2 Offset	0.000	metres
Transmitter Receiver 3 Offset	0.000	metres

Last Edited on 20-AUG-2009 15:36

Gamma Calibration MSI 398

	Measured (API)	Calibrated (API)
Background	20	20
Calibrator (Cross)	170	170
Calibrator (Net)	150	150

Last Edited on 21-MAY-2009 15:52

Gamma Calibration MSI 398

Gamma Calibration Number 435

Last Edited on 28-MAY-2009 15:52

Neutron Calibration MSI 390

Base Calibration on 26-AUG-2009 15:52

Base Calibration Reading No	Short Detector Counts	Long Detector Counts	Calibrator Value
1	244	1040	42
2	244	1040	206

Neutron Calibration MSI 390

Field Calibration on 26-AUG-2009 15:52

Neutron Constants MSI 390

Neutron Source Id	2540NK
Porosity Equation Type	3 Curve, 1 Capacity
Neutron Source Processing	

Calipar Constants SGC 429

Calipar Offsets for Sleeve		
Sleeve Diameter	3.000	millimetres

Calipar Calibration SGC 429

	Measured (mm)	Calibrated (mm)
Background	0	0
Calibrator (Cross)	120	470
Calibrator (Net)	120	470

Last Edited on 27-MAY-2009 17:38

Gamma Calibration SGD 429

Gamma Calibration Number 435

Last Edited on 28-MAY-2009 14:13

Gamma Calibration MSI 398

Gamma Calibration Number 435

Last Edited on 28-MAY-2009 15:52

Neutron Calibration MSI 390

Base Calibration on 26-AUG-2009 15:52

Base Calibration Reading No	Short Detector Counts	Long Detector Counts	Calibrator Value
1	244	1040	42
2	244	1040	206

Neutron Calibration MSI 390

Field Calibration on 26-AUG-2009 15:52

Neutron Constants MSI 390

Neutron Source Id	2540NK
Porosity Equation Type	3 Curve, 1 Capacity
Neutron Source Processing	

COMPANY
WELL
FIELD
PROVINCE/COUNTY
COUNTRY/STATE

COMPLIANCE COAL CORP
RAV09-034
UNDEFINED
BRITISH COLUMBIA
CANADA

MINI PLOT

Log Number	1	Elevation Kelly Bushing		Elevation Ground Level	
Run Number	1	Elevation Drill Floor			
Depth Driller	187.29 metres	Depth Logger	186.29 metres		
Depth Logged	186.00 metres	First Reading	186.00 metres	Last Reading	0.00 metres
Casing Driller	13.00 metres	Casing Logger	13.00 metres	Bit Size	216 mm
Hole Fluid Type	WATER	Hole Fluid Density		Hole Fluid Level	
Max Recorded Temp		Estimated Surface Temp		Time Since Circulation	
Equipment Base		Equipment Type		Truck Number	11536
Witnessed By		Recorded By		Operator	O.CLUCKSAW

Log Measured From GROUND LEVEL 0.00 metres Above Permanent Datum
Depth Measured From Kelly Bushing 0.00 metres Above Permanent Datum
Logging Date 23-AUG-2009
Logging Company Weatherford Canada Partnership
Location Latitude Longitude
Location Section Township Range Coordinate 1 Coordinate 2
Other Services

BOREHOLE RECORD

Last Edited: 23-AUG-2009 00:30

Bit Size millimetres	Depth From metres	Depth To metres
210.000	0.00	13.00
160.000	13.00	99.00
145.000	99.00	187.29

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	210.000	0.00	13.00	29.76

REMARKS

COORDINATES:
EASTING
364380

NORTHING
5464600

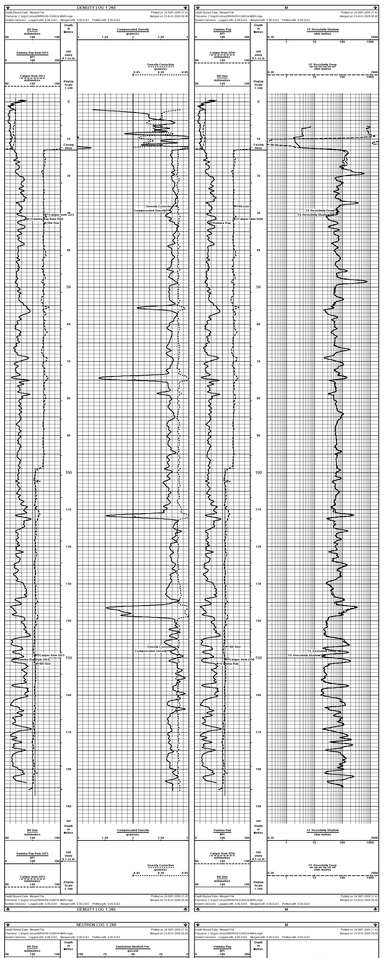
TOOL RUNS:
RR5,DD6,NN2,VERT,DIP,SONIC

BORE WALL COND : GOOD
BORE HOLE COND : GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.


DENSITY LOG 1:240
Depth Scale Units Metres
Time Scale Units Seconds
Data Source Logger
Date/Time 23-AUG-2009 00:00
Bit Size 216 mm
Casing Size 210 mm
Casing Depth 13.00 m
Hole Fluid Type WATER
Hole Fluid Density
Hole Fluid Level
Max Recorded Temp
Equipment Base
Equipment Type
Truck Number 11536
Witnessed By
Recorded By O.CLUCKSAW
Operator
Compensated Density
Density Correction
Caliper Raw Data
Caliper Data
Density Raw Data
Density Data
Spectral Gamma Ray
Total Gamma Ray
Gamma Ray
Caliper Data
Density Data
Density Raw Data
Caliper Raw

PRESSURE DATA
DRILL STEM TEST

Company	COMPLIANCE COIL CORP	Formation	MISSISSIPPI
Well	MARTINEZ	Test No.	1
Field	WILDCAT	Date	10-Jan-2003
County/Parish	CAMACHO	State	CALIFORNIA

Weatherford

CAMACHO, CALIFORNIA
ROD PICKING DETAIL 22483

Recorder Number	Capacity	Depth	Clock
13	4000	4000	12

Recorder Number	Capacity	Depth	Clock
13	4000	4000	12

Recorded By: Jim Bob
Witnessed By: Ed Ward

Drill Collars: 9.500 x 2.813
Drill Pipe: 4.500 x 3.826
Tool Size: 5.000 x 2.000
Tool Joint: 6.500 x 2.500
Hole Size: 6.125
Total Depth: 4000.00 ft
Elevation: 2000.00 ft
Perforations: 3900.00 - 4000.00 ft

Comments: Tool Open 1 hour 30 minutes. Good blow. Gas to surface in 15 minutes. Gas measured at 1/4" choke. Gas burned with a 3 foot flame. Tool closed 1 hour 30 minutes. Tool open 1 hour 30 minutes. Good blow. Gas to surface in 15 minutes. Gas measured at 1/4" choke. Gas burned with a 3 foot flame. Tool closed 1 hour 30 minutes.

Chart No. 13 Depth 4000 Clock 12 Capacity 4000 Gauge No. 13 Date 10-Jan-2003 Time 12:00:00 Pressure Range 0.000 - 4000.000 psi

Chart No. 13 Depth 4000 Clock 12 Capacity 4000 Gauge No. 13 Date 10-Jan-2003 Time 12:00:00 Pressure Range 0.000 - 4000.000 psi

60CM COMPENSATED SONIC

COMPANY COMPLIANCE COAL CORP
WELL RAV09-034
FIELD UNDEFINED
PROVINCE/COUNTRY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Weatherford

BOREHOLE RECORD

Last Edited: 26-AUG-2008 00:00

Bit Size (mm)	From (m)	To (m)
216.00	0.00	18.00
152.00	18.00	58.00
152.00	58.00	150.00

CASING RECORD

Type	Size (mm)	Depth (m)	Shoe Depth (m)	Weight (kg/m)
	244.00	0.00	18.00	67.70

REMARKS

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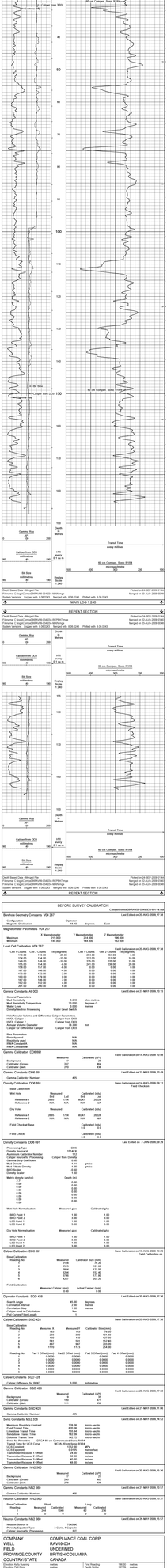
MAIN LOG 1:240

Depth Based Data - Merged File
Filename: C:\logs\Canada\BRITISH COLUMBIA\RAV09-034.mrg
Filename: C:\logs\Canada\BRITISH COLUMBIA\RAV09-034.mrg
Depth Scale: 1:240 Logged with 3.06.02D Merged with 3.06.02D Plotted with 3.06.02AD

Plotted on 26-SEP-2008 21:44
Merged on 26-AUG-2008 00:46
Merged on 25-AUG-2008 00:46


Gamma Ray API
Caliper from DCD mm
Bit Size mm
Depth Scale Metres
Transit Time every millisec
60 cm Compen. Sonic 9184
Delta-T Compen. Sonic 9184
Display Scale 1:240
Caliper from MSD
Caliper from MCD
Caliper from CCD
Caliper from CCD
Caliper from C

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-034
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Drill Floor	metres
Elevation Ground Level	metres
Date	23-AUG-2009
Time	09:37:25
Page	1

VERTICALITY ANALYSIS

COMPLIANCE COAL CORP
RAV09-034
BRITISH COLUMBIA
CANADA

Date	23-AUG-2009	Time	09:37:25
Page	1		

BOREHOLE RECORD

Last Edited: 23-AUG-2009 09:35

Bit Size	Depth From	Depth To
311.00 mm	0.00	15.00
216.000	15.00	170.00
160.000	170.00	267.00
140.000	267.00	357.26

CASING RECORD

Type	Size Minimum	Depth Minimum	Shoe Depth	Weight Kg/m
	219.000	0.00	13.00	28.76

REMARKS

COORDINATES
NAD83
ZONE 6

NORTHING
EASTING

TOOL RUN:
WELLSOUNDNOVERT,DIP,SONIC

BORE WALL CONDI - GOOD
BORE HOLE CONDI - GOOD

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

Verticality Analysis Interpretation Notes

23-AUG-2009 09:21

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:5000(horiz) and 1:4000(horiz/vert), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The listing supplied will contain a maximum of 200 equally spaced points. If the 10cm data is not sufficiently accurate to provide 200 points, then less will be used. However, the analysis is calculated for the entire range of the borehole and the final borehole position is included in the listing.

Computed verticality may only be fully derived in open sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three axial data magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to ten cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH — The depth recorded on the field logs for the borehole.

TRUE DEPTH — The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.

HOLE TILT AND AZIMUTH — The sampled borehole orientation.

ABSL COORDINATES — The coordinates North and East from the target origin.

POLAR COORDINATES — The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

C:\logic\Verticalit\RAV09-034\DHP 428-267-M.dhp
All Co-ordinates With Respect To True North, all depths in metres.
First Point: 0.00 m, Last Point: 357.26 m, Step: 1.00 m

Date Processed: 23-AUG-2009
Date Logged: 26-AUG-2009

DEPTH		BOREHOLE		ABSL CO-ORDS		POLAR	
Log	True	Tilt	Azi	North	East	Sig.	Radius
0.00	0.00	1.2	32.9	0.00	0.00	12	0.00
4.00	4.00	0.6	46.4	0.01	0.00	10	0.01
8.00	8.00	0.6	46.4	0.01	0.00	10	0.01
12.00	12.00	0.4	313.2	0.02	0.00	10	0.02
16.00	16.00	0.4	328.4	0.01	0.00	7	0.01
20.00	20.00	0.4	328.4	0.00	0.00	7	0.00
24.00	24.00	0.4	328.4	0.00	0.00	7	0.00
28.00	28.00	0.4	328.4	0.00	0.00	7	0.00
11.00	11.00	0.0	198.1	0.01	0.01	52	0.01
12.00	12.00	0.0	198.1	0.01	0.01	52	0.01
13.00	13.00	0.3	189.7	0.01	0.01	52	0.01
14.00	14.00	0.3	121.6	0.00	0.02	85	0.02
15.00	15.00	0.3	121.6	0.00	0.02	85	0.02
16.00	16.00	0.3	121.6	0.00	0.02	85	0.02
17.00	17.00	0.3	124.2	0.00	0.04	89	0.04
18.00	18.00	0.3	124.2	0.00	0.04	89	0.04
19.00	19.00	0.3	124.2	0.00	0.04	89	0.04
20.00	20.00	0.3	121.1	-0.00	0.05	99	0.05
21.00	21.00	0.3	121.1	-0.00	0.05	99	0.05
22.00	22.00	0.4	160.6	-0.01	0.07	101	0.07
23.00	23.00	0.4	160.6	-0.01	0.07	101	0.07
24.00	24.00	0.4	160.6	-0.01	0.07	101	0.07
25.00	25.00	0.4	285.9	-0.04	0.06	121	0.08
26.00	26.00	0.4	285.9	-0.04	0.06	121	0.08
27.00	27.00	0.4	285.9	-0.04	0.06	121	0.08
28.00	28.00	0.4	285.9	-0.04	0.06	121	0.08
29.00	29.00	0.4	160.6	-0.05	0.07	101	0.09
30.00	30.00	0.9	185.2	-0.09	0.07	142	0.12
31.00	31.00	0.9	185.2	-0.11	0.07	142	0.14
32.00	32.00	0.9	185.2	-0.13	0.07	142	0.16
33.00	33.00	1.5	217.1	-0.15	0.06	156	0.16
34.00	34.00	1.5	217.1	-0.18	0.04	156	0.18
35.00	35.00	1.5	217.2	-0.21	0.02	156	0.21
36.00	36.00	1.5	216.0	-0.22	0.03	172	0.22
37.00	37.00	1.5	216.0	-0.24	0.03	172	0.24
38.00	38.00	1.5	216.0	-0.25	0.03	172	0.25
39.00	39.00	2.0	216.8	-0.31	0.01	182	0.31
40.00	40.00	2.0	216.8	-0.36	0.00	182	0.36
41.00	41.00	2.0	216.8	-0.41	0.00	182	0.41
42.00	41.99	2.7	225.4	-0.47	-0.01	192	0.47
43.00	42.99	2.7	225.4	-0.54	-0.02	192	0.54
44.00	43.99	2.7	225.4	-0.60	-0.03	192	0.60
45.00	44.99	2.6	223.3	-0.67	-0.04	189	0.67
46.00	45.99	2.6	223.3	-0.57	-0.10	189	0.59
47.00	46.99	2.6	223.3	-0.48	-0.15	189	0.51
48.00	47.99	3.1	215.5	-0.66	-0.24	198	0.70
49.00	48.99	3.1	215.5	-0.71	-0.24	198	0.74
50.00	49.99	3.1	215.5	-0.77	-0.25	198	0.78
51.00	50.99	2.8	222.3	-0.85	-0.30	201	0.91
52.00	51.98	3.4	218.1	-0.95	-0.32	201	0.91
53.00	52.98	3.4	218.1	-1.05	-0.35	201	1.00
54.00	53.98	3.7	218.3	-1.16	-0.40	202	1.10
55.00	54.97	3.7	218.3	-1.01	-0.43	202	1.10
56.00	55.97	3.7	218.3	-0.87	-0.46	202	1.10
57.00	56.97	4.5	220.2	-1.14	-0.52	204	1.25
58.00	57.97	4.5	220.2	-1.19	-0.53	204	1.30
59.00	58.97	4.5	220.2	-1.24	-0.55	204	1.35
60.00	59.96	4.7	222.1	-1.34	-0.61	206	1.46
61.00	60.96	4.7	222.1	-1.44	-0.67	206	1.58
62.00	61.96	4.7	222.4	-1.43	-0.68	206	1.58
63.00	62.96	4.2	223.4	-1.41	-0.66	206	1.55
64.00	63.96	4.2	223.4	-1.38	-0.64	206	1.52
65.00	64.96	4.2	223.4	-1.35	-0.62	206	1.49
66.00	65.96	4.5	221.6	-1.42	-0.61	206	1.61
67.00	66.96	4.5	221.6	-1.49	-0.60	206	1.73
68.00	67.96	4.5	221.6	-1.56	-0.59	206	1.85
69.00	68.94	4.5	219.9	-1.62	-0.53	207	2.05
70.00	69.94	4.7	219.6	-1.69	-0.46	207	2.25
71.00	70.94	4.7	219.6	-1.86	-0.36	207	2.71
72.00	71.93	4.7	219.6	-2.03	-0.26	208	2.29
73.00	72.93	4.7	221.9	-2.11	-0.19	208	2.46
74.00	73.93	4.7	221.9	-2.17	-0.13	208	2.62
75.00	74.93	4.7	221.9	-2.24	-0.06	208	2.82
76.00	75.93	4.7	219.6	-2.31	0.01	208	3.04
77.00	76.93	4.7	219.6	-2.38	0.08	208	3.25
78.00	77.93	4.7	219.6	-2.45	0.15	208	3.47
79.00	78.93	4.9	223.8	-2.53	-0.02	209	3.53
80.00	79.93	4.9	223.8	-2.61	-0.19	209	3.57
81.00	80.93	4.9	223.8	-2.69	-0.36	209	3.61
82.00	81.93	4.9	223.8	-2.77	-0.53	209	3.65
83.00	82.93	5.1	221.7	-2.85	-0.69	209	3.70
84.00	83.93	5.1	221.7	-2.93	-0.86	209	3.74
85.00	84.93	5.1	221.7	-3.01	-1.03	209	3.78
86.00	85.93	5.1	221.7	-3.09	-1.20	209	3.82
87.00	86.93	5.1	221.7	-3.16	-1.19	209	3.93
88.00	87.93	5.1	221.7	-3.23	-1.18	209	4.04
89.00	88.93	5.1	221.7	-3.30	-1.17	209	4.15
90.00	89.88	4.8	220.8	-3.36	-1.32	210	3.80
91.00	90.88	4.8	220.8	-3.42	-1.47	210	3.46
92.00	91.88	4.8	220.8	-3.48	-1.62	210	3.12
93.00	92.85	5.1	221.7	-3.60	-1.86	210	4.14
94.00	93.85	5.1	221.7	-3.72	-2.11	210	5.16
95.00	94.85	5.1	221.7	-3.84	-2.35	210	6.18
96.00	95.83	5.2	223.4	-3.97	-2.59	212	7.21
97.00	96.83	5.2	223.4	-3.95	-2.75	212	8.49
98.00	97.83	5.2	223.4	-3.93	-2.91	212	9.77
99.00	98.82	5.2	223.3	-4.10	-2.80	210	8.75
100.00	99.82	5.2	223.3	-4.27	-2.69	210	7.73
101.00	100.82	5.2	223.3	-4.44	-2.58	210	6.71
102.00	101.81	5.3	223.1	-4.51	-2.56	211	5.91
103.00	102.81	5.3	223.1	-4.58	-2.54	211	5.11
104.00	103.81	5.3	223.1	-4.65	-2.52	211	4.31
105.00	104.81	5.4	224.4	-4.64	-2.71	211	5.26
106.00	105.81	5.4	224.4	-4.63	-2.90	211	6.21
107.00	106.81	5.4	224.4	-4.62	-3.09	211	7.17
108.00	107.79	5.4	222.9	-4.76	-2.87	211	5.56
109.00	108.79	5.4	222.9	-4.90	-2.65	211	3.95
110.00	109.79	5.4	222.9	-5.04	-2.43	211	2.34
111.00	110.77	5.7	225.9	-5.19	-2.19	211	3.92
112.00	111.77	5.7	225.9	-5.35	-1.95	211	5.52
113.00	112.77	5.7	225.9	-5.50	-1.71	211	7.11
114.00	113.76	5.4	224.7	-5.26	-2.12	212	6.16
115.00	114.76	5.4	224.7	-5.26	-2.53	212	5.21
116.00	115.76	5.4	224.7	-5.26	-2.94	212	4.26
117.00	116.75	5.1	225.6	-5.41	-3.41	212	5.45
118.00	117.75	5.1	225.6	-5.57	-3.88	212	6.64
119.00	118.75	5.1	225.6	-5.72	-4.35	212	7.83
120.00	119.75	5.1	225.6	-5.87	-4.82	212	9.02
121.00	120.73	5.1	227.5	-6.04	-5.27	212	9.71
122.00	121.73	5.1	227.5	-6.21	-5.72	212	9.71
123.00	122.73	5.1	227.5	-6.38	-6.17	212	9.71
124.00	123.72	5.3	226.3	-6.56	-6.62	212	9.97
125.00	124.72	5.3	226.3	-6.74	-7.07	212	9.97
126.00	125.72	5.3	226.3	-6.92	-7.52	212	9.97
127.00	126.71	5.6	231.5	-6.99	-8.00	213	7.24
128.00	127.71	5.6	231.5	-7.06	-8.48	213	4.51
129.00	128.71	5.6	231.5	-7.13	-8.96	213	1.78
130.00	129.69	5.9	232.2	-7.22	-9.45	214	3.69
131.00	130.69	5.9	232.2	-7.31	-9.94	214	5.60
132.00	131.69	5.9	232.2	-7.40	-10.43	214	7.51
133.00	132.68	5.9	232.2	-7.50	-10.92	214	9.42
134.00	133.68	5.9	232.2	-7.59	-11.41	214	11.33
135.00	134.68	5.9	232.2	-7.68	-11.90	214	13.24
136.00	135.67	5.5	230.5	-6.79	-9.48	213	8.14
137.00	136.67	5.5	230.5	-5.90	-7.06	213	3.04
138.00	137.67	5.5	230.5	-5.01	-4.64	213	2.06
139.00	138.66	5.2	228.1	-4.59	-4.50	213	7.66
140.00	139.66	5.2	228.1	-4.17	-4.36	213	13.26
141.00	140.66	5.2	228.1	-3.75	-4.22	213	18.86
142.00	141.64	5.5	231.2	-3.22	-4.55	214	9.69
143.00	142.64	5.5	231.2	-2.69	-4.88	214	0.52
144.00	143.64	5.5	231.2	-2.16	-5.21	214	8.65
145.00	144.63	5.3	230.9	-1.71	-5.49	214	16.77
146.00	145.63	5.3	230.9	-1.26	-5.77	214	24.90
147.00	146.63	5.3	230.9	-0.81	-6.05	214	33.02
148.00	147.62	5.3	232.0	-0.50	-5.49	215	9.65
149.00	148.62	5.3	232.0	-0.19	-4.93	215	13.71
150.00	149.62	5.3	232.0	0.12	-4.37	215	17.77
151.00	150.61	5.4	231.2	-0.71	-5.26	214	9.35
152.00	151.61	5.4	231.2	-1.54	-6.15	214	0.93
153.00	152.61	5.4	231.2	-2.37	-7.04	214	8.49
154.00	153.60	5.6	233.2	-2.92	-8.49	215	9.65
155.00	154.60	5.6	233.2	-3.47	-9.94	215	10.81
156.00	155.60	5.6	233.2	-4.02	-11.39	215	11.97
157.00	156.58	5.6	232.5	-4.13	-6.87	215	9.92
158.00	157.58	5.6	232.5	-4.24	-2.35	215	7.87
159.00	158.57	5.6	231.3	-4.35	2.17	215	5.82
160.00	159.57	5.6	231.3	-4.46	6.69	215	3.77
161.00	160.57	5.6	231.3	-4.57	11.21	215	1.72
162.00	161.55	5.6	233.2	-4.69	15.73	215	10.69
163.00	162.55	5.6	233.2	-4.81	20.25	215	19.66
164.00	163.55	5.6	233.2	-4.94	24.77	215	28.63
165.00	164.53	5.6	233.5	-5.07	29.29	216	37.60
166.00	165.53	5.6	233.5	-5.20	33.81	216	46.57
167.00	166.53	5.6	233.5	-5.33	38.33	216	55.54
168.00	167.52	5.8	232.8	-5.47	42.85	216	64.51
169.00	168.52	5.8	232.8	-5.61	47.37	216	73.48
170.00	169.52	5.8	232.8	-5.75	51.89	216	82.45
171.00	170.51	5.9	232.9	-5.91	56.41	216	91.42
172.00	171.51	5.9	232.9	-6.07	60.93	216	100.39
173.00	172.51	5.9	232.9	-6.23	65.45	216	109.36
174.00	173.50	5.9	232.9	-6.39	69.97	216	118.33
175.00	174.50	5.9	232.9	-6.55	74.49	216	127.30
176.00	175.49	5.8	234.4	-6.48	-6.84	216	11.16
177.00	176.49	5.8	234.4	-6.41	-7.19	216	12.02
178.00	177.49	5.8	234.4	-6.34	-7.54	216	12.88
179.00	178.49	5.9	231.1	-6.71	-7.75	216	12.06
180.00	179.48	5.9	231.1	-7.08	-7.96	216	11.24
181.00	180.48	5.9	231.1	-7.45	-8.17	216	10.42
182.00	181.48	5.9	231.1	-7.82	-8.38	216	9.60
183.00	182.46	5.8	232.6	-8.21	-7.41	217	12.46

Cross Section

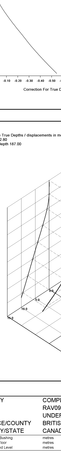
All Figures are Log Depths in metres

Left Hand Side Depth 0.00
Left Hand Side Scale = multiples of 20
Final Depth Marker at 20
Last Depth Marker at 160

Plot With Respect to True North
Scale 1:200
Declination 18.1 deg East

Final Borehole Position
The last plotted depth is at
10.21 metres South
41 metres West
or 12.48 metres at bearing 231.0 deg
217 deg from True North

Vertical Sections



Depth Correction Analysis

Depths Log	Depths True	Corrections	Depths Log	Depths True
2.00	2.00	79.00	69.93	137.00
3.00	3.00	76.00	70.93	138.00
4.00	4.00	73.00	71.93	139.00
5.00	5.00	71.00	72.93	140.00
6.00	6.00	69.00	73.93	141.00
7.00	7.00	67.00	74.93	142.00
8.00	8.00	66.00	75.93	143.00
10.00	10.00	73.00	76.93	144.00
11.00	11.00	76.00	77.93	145.00
12.00	12.00	79.00	78.93	146.00
13.00	13.00	81.00	79.93	147.00
14.00	14.00	83.00	80.93	148.00
15.00	15.00	85.00	81.93	149.00
16.00	16.00	87.00	82.93	150.00
17.00	17.00	89.00	83.93	151.00
18.00	18.00	91.00	84.93	152.00
19.00	19.00	93.00	85.93	153.00
20.00	20.00	95.00	86.93	154.00
21.00	21.00	97.00	87.93	155.00
22.00	22.00	99.00	88.93	156.00
23.00	23.00	101.00	89.93	157.00
24.00	24.00	103.00	90.93	158.00
25.00	25.00	105.00	91.93	159.00
26.00	26.00	107.00	92.93	160.00
27.00	27.00	109.00	93.93	161.00
28.00	28.00	111.00	94.93	162.00
29.00	29.00	113.00	95.93	163.00
30.00	30.00	115.00	96.93	164.00
31.00	31.00	117.00	97.93	165.00
32.00	32.00	119.00	98.93	166.00
33.00	33.00	121.00	99.93	167.00
34.00	34.00	123.00	100.93	168.00
35.00	35.00	125.00	101.93	169.00
36.00	36.00	127.00	102.93	170.00
37.00	37.00	129.00	103.93	171.00
38.00	38.00	131.00	104.93	172.00
39.00	39.00	133.00	105.93	173.00
40.00	40.00	135.00	106.93	174.00
41.00	41.00	137.00	107.93	175.00
42.00	42.00	139.00	108.93	176.00
43.00	43.00	141.00	109.93	177.00
44.00	44.00	143.00	110.93	178.00
45.00	45.00	145.00	111.93	179.00
46.00	46.00	147.00	112.93	180.00
47.00	47.00	149.00	113.93	181.00
48.00	48.00	151.00	114.93	182.00
49.00	49.00	153.00	115.93	183.00
50.00	50.00	155.00	116.93	184.00
51.00	51.00	157.00	117.93	185.00
52.00	52.00	159.00	118.93	186.00
53.00	53.00	161.00	119.93	187.00
54.00	54.00	163.00	120.93	188.00
55.00	55.00	165.00	121.93	189.00
56.00	56.00	167.00	122.93	190.00
57.00	57.00	169.00	123.93	191.00
58.00	58.00	171.00	124.93	192.00
59.00	59.00	173.00	125.93	193.00
60.00	60.00	175.00	126.93	194.00
61.00	61.00	177.00	127.93	195.00
62.00	62.00	179.00	128.93	196.00
63.00	63.00	181.00	129.93	197.00
64.00	64.00	183.00	130.93	198.00
65.00	65.00	185.00	131.93	199.00
66.00	66.00	187.00	132.93	200.00
67.00	67.00	189.00	133.93	201.00
68.00	68.00	191.00	134.93	202.00
69.00	69.00	193.00	135.93	203.00

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth 0.00
Last Plotted Depth 167.00

Plot With Respect to True North
Declination 18.1 deg East

North
10.0
20.0
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COMPOSITE COAL LOG

COMPANY: COMPLIANCE COAL CORP
WELL: RAV08-035
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

Elevation Kelly Bushing	metres	First Reading	310.60 metres
Elevation Ground Level	metres	Last Reading	310.60 metres
Elevation Ground Level	metres	Depth Logger	333.86 metres

Weatherford

COMPOSITE COAL LOG

Bit Size millimetres	Depth From metres	Depth To metres
165.100	0.00	21.90
152.400	21.90	222.00
140.000	222.00	334.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/m
	108.500	0.00	10.40	28.76

REMARKS

COORDINATES:
EASTING: 383770

NORTHING: 5485000

TOOL RUNS:
SDN-MG, BHC, M02, V04, 9GD

BORE WALL COND: POOR
BORE HOLE COND: POOR

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE.

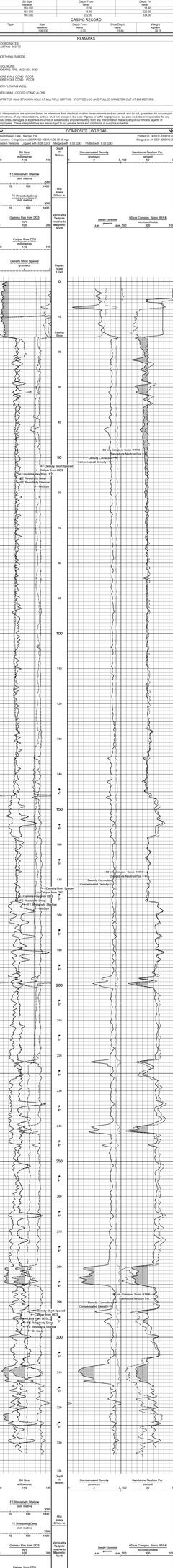
DPMETER WAS STUCK IN HOLE AT MULTIPLE DEPTHS. STOPPED LOG AND PULLED DPMETER OUT AT 246 METERS.

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

COMPOSITE LOG 1:240

Depth Based Data - Merged File
Source Filename: C:\Program Files\Weatherford\DISKAVG\05-35-M.mge
System Versions: Logged with 6.08.0243 Merged with 6.08.0243 Plotted with 6.08.0243

Plotted on 24-SEP-2009 19:40
Merged on 21-SEP-2009 15:29


Bit Size millimetres
FE Resistivity Shallow ohm metres
FE Resistivity Deep ohm metres
Gamma Ray from DD3 gapi
Caliper from DD3 millimetres
Density Short Spaced grams/cc
Hole Deviation 0.1 to ∞
Vertically Tadpole Corrected Magnetic North
Compensated Density grams/cc
Sandstone Neutron Por percent
Density Corrected grams/cc
60 cm Compen. Sonic 9/184 microseconds/metre
Casing Shoe
Density Short Spaced
Caliper from DD3
Compensated Density
Sandstone Neutron Por
FE Resistivity Shallow
Bit Size
Density Corrected
60 cm Compen. Sonic 9/184

DIPMETER ANALYSIS

COMPANY: COMPLIANCE COAL CORP
WELL: RAV08-035
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

Weatherford

BOREHOLE RECORD

Last Edited: 21-SEP-2009 10:00

Bit Size millimetres	Depth From metres	Depth To metres
140.000	0.00	10.30
140.000	10.30	202.00
140.000	202.00	204.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/m
	108.500	0.00	10.85	28.70

REMARKS

COORDINATES
EASTING: 540777

NORTHING: 5480600

TOOL RUNS:
DDK/MAC RWS, MSD, VDA, SGD

BORE HOLE CONDITIONS:
BORE HOLE COND : POOR

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

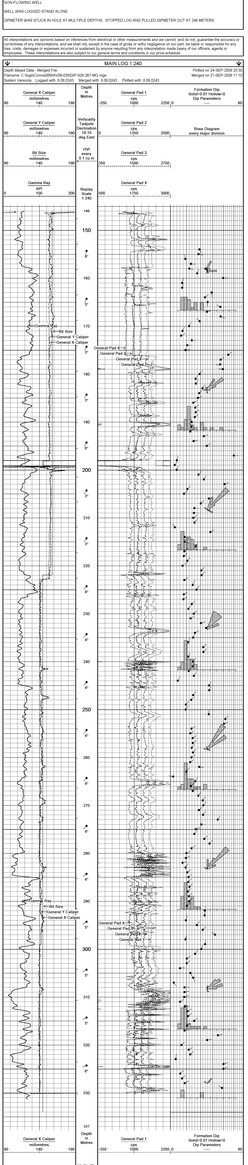
DIPMETER WAS STUCK IN HOLE AT MULTIPLE DEPTHS . STOPPED LOG AND PULLED DIPMETER OUT AT 240 METERS

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions in our price schedule.

MAIN LOG 1:240

Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAV08-035\DIP-028-267-903.mgs
System Versions: Logged with 8.06.02G Merged with 8.06.02AG Plotted with 8.06.02AG

Plotted on 24-SEP-2009 20:30
Merged on 21-SEP-2009 11:10



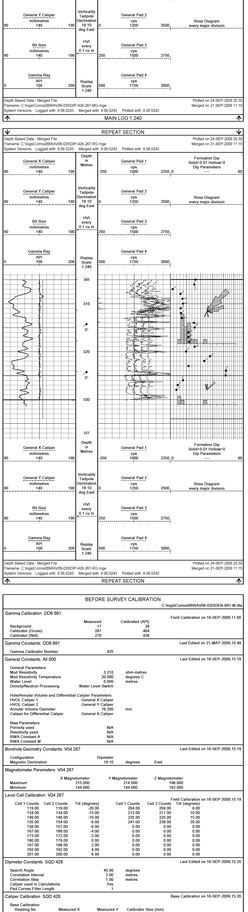
Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAV08-035\DIP-028-267-903.mgs
System Versions: Logged with 8.06.02G Merged with 8.06.02AG Plotted with 8.06.02AG

Plotted on 24-SEP-2009 20:30
Merged on 21-SEP-2009 11:10

REPEAT SECTION

Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAV08-035\DIP-028-267-903.mgs
System Versions: Logged with 8.06.02G Merged with 8.06.02AG Plotted with 8.06.02AG

Plotted on 24-SEP-2009 20:30
Merged on 21-SEP-2009 11:10



Depth Based Data - Merged File
Filename: C:\logs\Compliance\RAV08-035\DIP-028-267-903.mgs
System Versions: Logged with 8.06.02G Merged with 8.06.02AG Plotted with 8.06.02AG

Plotted on 24-SEP-2009 20:30
Merged on 21-SEP-2009 11:10

BEFORE SURVEY CALIBRATION

C:\logs\Compliance\RAV08-035\DEN-001-96.dfa

Gamma Calibration: DDB 691 — Field Calibration on 16-SEP-2009,11:06

	Measured	Calibrated (API)
Background	147	20
Calibration (Gross)	267	445
Calibrator (Net)	270	436

Gamma Calibration: DDB 691 — Last Edited on 21-MAY-2008,10:49

Gamma Calibrator Number: 425

General Constants: AI 030 — Last Edited on 16-SEP-2009,15:19

Hole Inclination	0
Hole Azimuth	0
Mud Resistivity	3.370 ohm-metres
Mud Resistivity Temperature	20.000 degrees C
Hole Diameter	140.000 metres
Density/Neutron Processing	Water Level Switch
Hole/Annular Volume and Differential Caliper Parameters	
HW3: Caliper 1	General X Caliper
HW4: Caliper 2	General Y Caliper
Hole Volume Units Multiplier	1.000 mm
Caliper for Differential Caliper	General X Caliper
Ifas Parameters	
Density used	N/A
Resistivity used	N/A
Density Cutoff	N/A
Min Contrast M	N/A

Borehole Geometry Constants: VD4 267 — Last Edited on 16-SEP-2009,15:19

	Dipmeter		
Configuration	Dipmeter		
Magnetic Declination	0.00	degrees	East

Magnetometer Parameters: VD4 267

	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	215.000	215.000	196.000
Minimum	144.000	144.000	162.000

Lwd Cal Calibration: VD4 267 — Field Calibration on 16-SEP-2009,15:19

Cal1 X Coords	Cal1 Z Coords	Tilt (degrees)	Cal1 Y Coords	Cal2 Z Coords	Cal2 Y Coords
143.00	143.00	20.00	201.00	201.00	0.00
143.00	143.00	20.00	201.00	201.00	0.00
149.00	149.00	-10.00	225.00	225.00	15.00
152.00	152.00	0.00	225.00	225.00	15.00
152.00	152.00	-4.00	0.00	0.00	0.00
152.00	152.00	-4.00	0.00	0.00	0.00
152.00	152.00	0.00	0.00	0.00	0.00
152.00	152.00	0.00	0.00	0.00	0.00
152.00	152.00	2.00	0.00	0.00	0.00
152.00	152.00	2.00	0.00	0.00	0.00
152.00	152.00	0.00	0.00	0.00	0.00

Dipmeter Constants: SGD 428 — Last Edited on 16-SEP-2009,15:20

Search Angle	45.00	degrees
Maximum Dip Angle	60.00	degrees
Correlation Step	0.00	metres
Caliper used in Calculations	Yes	
Dipmeter Caliper Limit	0	

Caliper Calibration: SGD 428 — Base Calibration on 16-SEP-2009,15:20

Reading No	Pad 1 Offset (mm)	Pad 2 Offset (mm)	Pad 3 Offset (mm)	Pad 4 Offset (mm)
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000

Caliper Constants: SGD 428

Caliper Difference for 20MC	3.000	mm

Elevation Kelly Bushing	metres	Final Reading	330.10 metres
Elevation Ground	metres	Depth Logged	330.00 metres
Elevation Ground Level	metres	Depth Logger	333.00 metres

DUAL FOCUSED ELECTRIC GAMMA RAY - CALIPER

COMPANY: COMPLIANCE COAL CORP
WELL: 100/16-05-026-19W5/00
FIELD: UNDEFINED
PROVINCE/COUNTRY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

Weatherford

BOREHOLE RECORD

Last Edited: 21-SEP-2006 10:53

Bit Size (mm)	Depth From (m)	Depth To (m)
203.200	0.000	1.000
152.400	1.000	1.000
152.400	1.000	1.000

CASING RECORD

Type	Size (mm)	Weight (kg/m)	Grade	Drive Depth (m)	Weight (kg)
	139.700	17.00	J55	10.00	170.00

REMARKS

COORDINATES:
Surface Location

NORTHING: 5486330

TOWNSHIP: 026
RANGE: TPR: W5(0 W5: W3)
SECTION: 05 SECTION: 05
QUARTER: NE-NE-NE-NE
NTS/OTS:
NTS/OTS:

WELL NAME: COGLEN CREEK
WELL NAME: COGLEN CREEK

OPERATOR WAS EVOLVE IN HOLE AT REALTIVE DEPTHS - STOPPED LOG AND PULLED OPERATOR OUT AT 248 METERS

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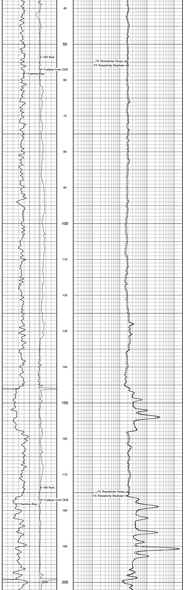
MAIN LOG 1:240

Field Name: Coglen Creek - Morgan Pool
Filename: C:\logs\100/16-05-026-19W5/00\100/16-05-026-19.dwg
Depth Interval: 0.000 - 1.000 Date: 21-SEP-2006 Probe Left: 0.000 - 0.000

Printed on 21-SEP-2006 10:56
Merged on 21-SEP-2006 10:56


Gamma Ray
0 API 200
Caliper from DCR
mm 152.400 203.200
Bit Size
mm 152.400 203.200
Depth
m 1:240
Gamma
Density
Neutron
Caliper
Bit Size
Density Tool
Neutron Shallow
Neutron Deep
Caliper from DCR

Schlumberger

Field Print

Well Name: Ivanhoe 1

Location: Ivanhoe

Province: Saskatchewan

Country: Canada

Date: 2010-06-19

Time: 17:00

Run Number: ONE

Depth Reference: KB

Elevation: 0 m

Permanent Datum: KB

Elevation: 0 m

Log Measured From: KB

Drilling Measured From: KB

Logging Company	Logging Date	Logging Time	Logging Unit Number	Logging Engineer	Base Depth	Top Depth
Schlumberger	2010-06-19	17:00	5		1000 m	0 m

Casing Record

Size	Weight	Grade	Top	Bottom
9.625 in	36 lb/ft		0 m	1000 m

Bit Record

Bit Size	Bit Type	Bit Number	Top	Bottom
8.75 in			0 m	1000 m

Mud Data

Mud Type	Density	Viscosity	Fluid Loss	Resistivity	Temperature
Water Based Mud	1.1 g/cm³	40 s	10 cm³	0.2 ohm.m	20 °C

Equipment Data

Equipment	Serial Number	Calibration Date

Operating Rig Time

Start	Finish

Remarks

Logging Company: Schlumberger
Logging Date: 2010-06-19
Logging Time: 17:00
Logging Unit Number: 5
Logging Engineer:
Base Depth: 1000 m
Top Depth: 0 m

Run 1 Gamma Ray, Density, Neutron, Dual Induction, Sonic, Caliper, Temperature, Spectral Gamma Ray, Dipmeter, Borehole Televiewer, Vertical Seismic Profile, Checkshot, Sidewall Core, Sidewall Sample, Formation Pressure, Fluid Sample, Formation Tester, Cement Bond Log, Casing Collar Locator, Perforation Record, Cement Retainer, Bridge Plug, Casing Pressure Test, Casing Integrity, Casing Thickness, Casing Corrosion, Casing Deformation, Casing Leak, Casing Patch, Casing Repair, Casing Shoe, Casing Stress, Casing Tension, Casing Wear, Casing Weight, Casing Yield, Casing Zone, Casing Zone Length, Casing Zone Top, Casing Zone Bottom, Casing Zone Thickness, Casing Zone Density, Casing Zone Porosity, Casing Zone Permeability, Casing Zone Saturation, Casing Zone Resistivity, Casing Zone Temperature, Casing Zone Pressure, Casing Zone Fluid, Casing Zone Gas, Casing Zone Oil, Casing Zone Water, Casing Zone Salinity

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-035		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	333.80 metres
Elevation Drill Floor	metres	Depth Driller	334.00 metres
Elevation Ground Level	metres	Depth Logger	333.08 metres

MINI PLOT

BOREHOLE RECORD

Last Edited: 21-SEP-2009 10:00

Bit Size millimetres	Depth From metres	Depth To metres
160.000	0.00	15.80
158.000	15.80	222.00
145.000	222.00	334.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
	108.500	0.00	15.80	29.76

REMARKS

COORDINATES:
EASTING: 365770

NORTHING: 5486500

TOOL RUNS:
DSI4,NAZ, BRS, MSI, VSI4, BGD

BORE WALL CONDI - POOR
BORE HOLE COND - POOR

NON-FLOWING WELL

WELL WAS LOGGED STAND ALONE

DIPMETER WAS STUCK IN HOLE AT MULTIPLE DEPTHS - STOPPED LOG AND PULLED DIPMETER OUT AT 246 METERS

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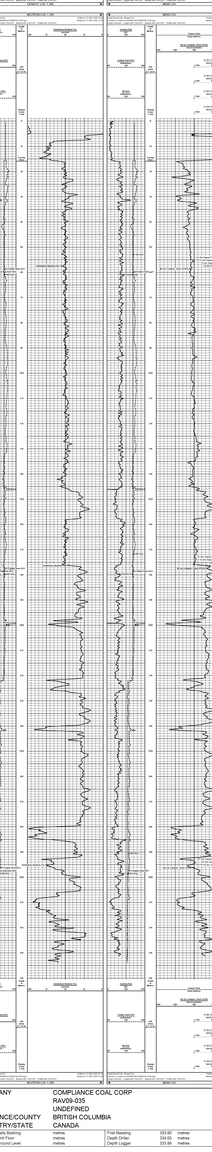
DIPMETER ANALYSIS
DIPMETER ANALYSIS
DIP ANALYSIS
DIP ANALYSIS
DIP

Schlumberger

Company Petroleum Development Oman LLC
Well Fahud-1
Field Fahud
Country Sultanate of Oman
Date 2-Jan-2006
Time 00:00 hrs
Depth 3000 m
Log Run 1

Logging Speed 1800 m/hr
Mud Type Water Based Mud
Mud Density 1.05 g/cm3
Max Temp 90 C

Rm 0.0 ohm-m
Rmf 0.0 ohm-m
Rmc 0.0 ohm-m
Rm @ BHT 0.0 ohm-m

Bit Size 8.5 in
Casing 9.625 in @ 2500 m
Top Log Int. 2500 m
Bottom Log Int. 3000 m

Equipment MAXIS 500 Unit
Logging Engineer Ali Al Ghafri
Operator Ali Al Ghafri

Witnessed by
Company Representative: Ali Al Ghafri
Company Representative: Ali Al Ghafri

Recorded Channels
Gamma Ray
Caliper
Resistivity
Density
Neutron
Sonic
Dipmeter

Tool Strings
Gamma Ray
Caliper
Resistivity
Density
Neutron
Sonic
Dipmeter

Comments
Logging Operations
Logging Operations
Logging Operations

WELL SUMMARY

COMPANY	CORPLANCE COAL CORP
WELL	08-08-CCC-001
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Service Order Number	0000000
Service Order Date	2006-08-08
Service Order Type	Geophysical
Service Order Status	Completed
Total Depth	201.00 metres
Logging Date	2006-08-08
Logging Time	08:00 - 09:00
Logging Unit	10
Logging Truck	10

Weatherford

SIGNA COMPENSATED SONIC

BOREHOLE RECORD

Bit Size	Drill Pipe	Casing	Depth
152.4mm	114.3mm	114.3mm	201.00

Last Entry 21-SEP-2006 13:25

CASING RECORD

Type	Size	Depth From	Depth To	Wt/m (Depth)	Grade
Casing	114.3mm	0.00	201.00	13.41	J55

REMARKS

COORDINATES:
CENTRAL NOTTS

CAPTAIN: DARREN

TOOL RUN:
DENSITY, BRI, NEUTRON, VIDEO

WATER WELL CONC: 10CLR
WATER WELL TDS: 0

DATA ON WRITE WELL

WELL WAS CASED OPEN HOLE ONLY

BRI WAS SHIM STUCK IN HOLE AT 45.0 FEET PLUS FELL DEPTH IN STUMPED LOG AND PULLED DEPARTED OUT AT 34M BETWEEN

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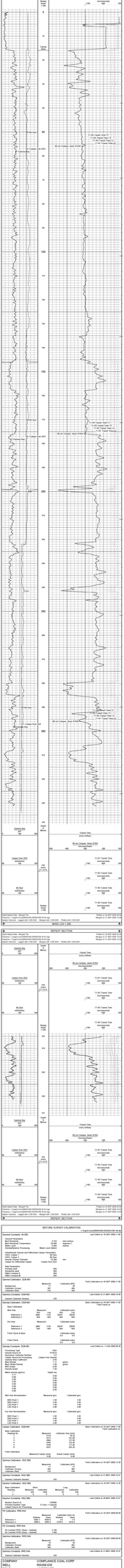

MAIN LOG 1:200
Depth Scale: 1cm = 1Metres(1:200)
Version: 1 Output Location: 0000000000-00-00-Log
Version: 1 Output Location: 0000000000-00-00-Log
Printed on 21-SEP-2006 20:30
Merged on 21-SEP-2006 13:25
Gamma Ray
0 API 200
Caliper from 2D3
Hole Diameter
100 mm 400
Bit Size
anticlockwise
100 mm 400
Gamma Ray
0 API 200
Caliper from 2D3
Hole Diameter
100 mm 400
Bit Size
anticlockwise
100 mm 400
Travel Time
micro seconds
Travel Time
micro seconds
Travel Time
micro seconds

VERTICALITY ANALYSIS

COMPANY: COMPLIANCE COAL CORP
WELL: RAV99-035
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

Weatherford

BOREHOLE RECORD

Last Edited: 21-SEP-2009 10:02

Bit Size (mm)	Depth From (m)	Depth To (m)
152.40	0.00	15.24
139.700	15.24	222.00
149.860	222.00	224.55

CASING RECORD

Type	Size (mm)	Depth From (m)	Shoe Depth (m)	Weight (kg/m)
	139.700	0.00	15.24	25.76

REMARKS

COORDINATES:
NORTHING: 5485835

TOOL RUNS:
DOUWILL MRS, MS2, VSA, ISG

SURE HOLE CORD: POOR
SURE HOLE CONG: POOR

NON FLOWING WELL

WELL WAS LOGGED STAND ALONE

DIPMETER WAS STUCK IN HOLE AT MULTIPLE DEPTHS. STOPPED CO AND PULLED DIPMETER OUT AT 246 METERS

Verticality Analysis Interpretation Notes

21-SEP-2009 11:23

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:5000(metric) and 1:4800(imperial), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data from the borehole. The listing supplied will contain a maximum of 250 points in multiples of 1, 2, 5, 10, 20, 50 or 100 metres/feet depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole position is evaluated in the listing.

Interpretation of the results of the analysis should be made in conjunction with the borehole record, and the presence of any unusual magnetic effects, (as the azimuth calculations are derived from three axial plot magnetometers). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to two cross sections may be requested for any borehole to be displayed at any scale, (the default scale is that of the cross section for the entire hole).

Given below is a full description of the parameters displayed on the ensuing listing:

LOG DEPTH	The depth recorded on the field logs for the borehole.
TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
HOLE TILT AND AZIMUTH	The sampled borehole orientation.
ABAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.

N.B. The reference point for all bearing angles on this listing is given at the top of each sheet.

Verticality Data Listing

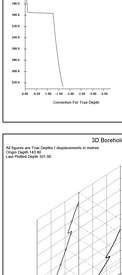
C:\logs\Compliance\RAV99-035\DDP 429-267.tlk

All Co-ordinates With Respect To True North, all depths in metres.
Feet Depth 142.80, 0.00 North, 0.00 East of Origin

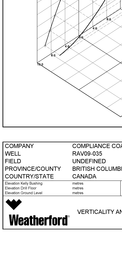
Date Processed: 21-SEP-2009
Date Logged: 18-SEP-2009

DEPTHS		BOREHOLE		ABSOLUTE CO-ORDS		POLAR	
LOG	TRUE	TILT	AZIMUTH	NORTH	EAST	RADIUS	ANGLE
142.80	142.80	4.2	183.1	-0.51	-0.06	0.51	0.07
145.00	145.00	4.2	183.1	-0.59	-0.01	0.59	0.00
146.00	146.00	4.2	183.1	-0.63	0.01	0.63	0.01
147.00	146.99	4.2	183.1	-0.67	0.03	0.67	0.02
148.00	147.99	4.2	268.4	-0.30	-0.04	0.30	0.12
149.00	148.99	4.2	268.4	-0.30	-0.07	0.30	0.23
150.00	149.99	4.2	268.4	-0.30	-0.10	0.30	0.34
152.00	151.98	4.0	184.4	-0.51	0.07	0.51	0.12
153.00	152.98	4.0	184.4	-0.57	0.09	0.57	0.16
154.00	153.98	4.0	184.4	-0.63	0.11	0.63	0.17
155.00	154.97	4.2	184.7	-0.70	0.13	0.71	0.18
156.00	155.97	3.9	268.5	-0.32	-0.14	0.32	0.43
157.00	156.97	3.9	268.5	-0.32	-0.18	0.32	0.56
158.00	157.96	3.9	198.5	-0.99	-0.15	1.00	1.00
159.00	158.96	3.7	198.8	-1.05	-0.18	1.06	1.04
160.00	159.96	3.7	198.8	-1.14	-0.19	1.16	1.19
161.00	160.96	3.7	198.8	-1.22	-0.21	1.24	1.33
162.00	161.95	3.5	207.7	-1.30	-0.25	1.32	1.37
163.00	162.95	3.5	207.7	-1.36	-0.29	1.39	1.36
164.00	163.95	3.5	207.7	-1.42	-0.33	1.46	1.34
165.00	164.95	3.5	207.7	-1.48	-0.37	1.52	1.32
166.00	165.94	3.7	198.8	-1.54	-0.40	1.59	1.32
167.00	166.94	3.7	198.8	-1.61	-0.43	1.66	1.33
168.00	167.94	3.7	198.8	-1.68	-0.46	1.73	1.34
169.00	168.94	3.9	208.8	-1.77	-0.51	1.84	1.36
170.00	169.93	3.7	208.8	-1.85	-0.56	1.93	1.37
171.00	170.94	4.0	212.0	-1.74	-0.56	1.82	1.61
172.00	171.93	3.9	212.0	-1.79	-0.58	1.88	1.61
173.00	172.93	3.9	212.0	-1.84	-0.59	1.93	1.61
174.00	173.93	3.9	213.2	-1.91	-0.65	1.93	2.02
175.00	174.93	3.7	213.2	-1.97	-0.69	1.99	2.05
176.00	175.93	3.7	213.2	-2.03	-0.73	2.05	2.08
177.00	176.92	4.1	215.0	-2.15	-0.83	2.24	2.22
178.00	177.92	4.1	215.0	-2.22	-0.87	2.32	2.24
179.00	178.92	3.7	215.0	-2.28	-0.91	2.38	2.26
180.00	179.92	3.7	215.6	-2.33	-0.94	2.45	2.42
181.00	180.92	3.7	215.6	-2.39	-0.97	2.51	2.44
182.00	181.92	3.7	217.2	-2.45	-1.01	2.57	2.56
183.00	182.92	3.7	217.2	-2.51	-1.05	2.63	2.58
184.00	183.91	3.7	220.2	-2.55	-0.79	2.67	2.88
185.00	184.91	3.7	220.2	-2.59	-0.81	2.71	2.89
186.00	185.91	3.7	220.2	-2.63	-0.82	2.75	2.91
187.00	186.90	3.9	217.2	-2.74	-0.89	2.87	2.87
188.00	187.90	3.9	217.2	-2.85	-0.95	2.98	2.84
189.00	188.90	3.9	217.2	-2.95	-1.02	3.09	2.80
190.00	189.90	3.5	220.3	-2.90	-0.95	3.06	3.05
191.00	190.90	3.5	220.3	-2.95	-0.97	3.11	3.05
192.00	191.90	3.5	220.3	-3.00	-0.99	3.16	3.05
193.00	192.89	4.0	218.3	-3.07	-1.05	3.24	3.14
194.00	193.89	4.0	218.3	-3.14	-1.08	3.32	3.14
195.00	194.89	4.0	218.3	-3.21	-1.11	3.40	3.14
196.00	195.88	4.0	218.3	-3.28	-1.14	3.47	3.14
197.00	196.88	3.9	218.2	-3.34	-1.17	3.54	3.14
198.00	197.88	3.7	218.2	-3.39	-1.19	3.59	3.14
199.00	198.75	4.0	217.9	-2.24	-1.04	2.47	2.67
200.00	199.75	4.0	217.9	-2.29	-1.06	2.52	2.67
201.00	200.75	4.0	217.9	-2.35	-1.09	2.58	2.67
202.00	201.74	3.9	208.2	-2.41	-1.13	2.65	2.86
203.00	202.74	3.9	208.2	-2.46	-1.16	2.71	2.86
204.00	203.74	3.9	208.2	-2.51	-1.19	2.77	2.86
205.00	204.73	3.9	209.0	-2.54	-1.23	2.85	2.86
206.00	205.73	3.9	209.0	-2.57	-1.26	2.92	2.86
207.00	206.73	3.9	209.0	-2.60	-1.29	2.99	2.86
208.00	207.73	3.9	209.0	-2.75	-1.33	3.06	3.06
209.00	208.72	3.9	209.0	-2.89	-1.37	3.13	3.06
210.00	209.72	3.9	208.6	-2.94	-1.39	3.20	3.06
211.00	210.72	3.9	208.6	-2.97	-1.40	3.26	3.25
212.00	211.72	3.9	208.6	-3.01	-1.42	3.32	3.25
213.00	212.72	4.0	208.6	-3.04	-1.44	3.37	3.25
214.00	213.72	4.0	208.6	-3.08	-1.45	3.42	3.25
215.00	214.71	4.0	218.5	-3.13	-1.57	3.51	3.50
216.00	215.71	4.0	218.5	-3.19	-1.60	3.58	3.50
217.00	216.71	4.0	218.5	-3.25	-1.63	3.65	3.50
218.00	217.71	3.9	223.5	-3.30	-1.68	3.67	3.70
219.00	218.71	3.9	223.5	-3.34	-1.71	3.69	3.70
220.00	219.70	4.0	226.5	-3.39	-1.79	3.71	3.81
221.00	220.70	4.0	226.5	-3.44	-1.79	3.77	3.91
222.00	221.70	4.0	226.5	-3.49	-1.79	3.83	3.91
223.00	222.70	4.0	223.7	-3.55	-1.81	3.89	3.91
224.00	223.69	4.0	223.7	-3.61	-1.84	3.96	3.91
225.00	224.69	4.0	223.7	-3.67	-1.87	4.02	3.91
226.00	225.69	4.0	224.4	-3.72	-1.90	4.07	3.91
227.00	226.69	4.0	224.4	-3.77	-1.93	4.13	3.91
228.00	227.69	4.0	224.4	-3.82	-1.97	4.18	3.91
229.00	228.68	4.0	224.4	-3.87	-2.00	4.24	3.91
230.00	229.68	4.0	224.4	-3.92	-2.03	4.29	3.91
231.00	230.68	4.0	225.3	-3.97	-2.06	4.35	3.91
232.00	231.68	4.0	225.3	-4.02	-2.09	4.40	3.91
233.00	232.67	4.0	225.3	-4.07	-2.12	4.46	3.91
234.00	233.67	4.0	225.3	-4.13	-2.15	4.51	3.91
235.00	234.67	4.0	225.3	-4.18	-2.18	4.57	3.91
236.00	235.67	4.0	225.3	-4.23	-2.21	4.62	3.91
237.00	236.66	4.0	224.6	-4.28	-2.24	4.68	3.91
238.00	237.66	4.0	224.6	-4.35	-2.27	4.74	3.91
239.00	238.66	4.0	224.6	-4.41	-2.43	4.94	3.94
240.00	239.66	4.0	224.6	-4.47	-2.59	5.15	3.97
241.00	240.65	4.0	224.6	-4.53	-2.75	5.35	3.97
242.00	241.65	4.0	224.6	-4.59	-2.91	5.56	3.97
243.00	242.65	4.0	224.6	-4.65	-3.07	5.76	3.97
244.00	243.65	4.0	224.6	-4.71	-3.23	5.97	3.97
245.00	244.64	4.0	225.3	-4.84	-3.42	6.24	3.97
246.00	245.64	4.0	225.3	-4.97	-3.61	6.51	3.97
247.00	246.64	4.0	225.3	-5.10	-3.80	6.78	3.97
248.00	247.64	4.0	225.3	-5.23	-3.99	7.05	3.97
249.00	248.63	4.0	227.1	-5.33	-4.17	7.32	4.01
250.00	249.63	4.0	227.1	-5.43	-4.36	7.60	4.01
251.00	250.63	4.0	227.1	-5.53	-4.55	7.87	4.01
252.00	251.61	4.0	219.2	-5.42	-3.10	7.03	4.24
253.00	252.61	4.0	219.2	-5.51	-3.15	7.15	4.24
254.00	253.61	4.0	219.2	-5.60	-3.20	7.27	4.24
255.00	254.60	4.0	220.5	-5.69	-3.22	7.40	4.24
256.00	255.60	4.0	220.5	-5.78	-3.25	7.52	4.24
257.00	256.60	4.0	220.5	-5.87	-3.28	7.64	4.24
258.00	257.59	4.0	224.9	-5.95	-3.40	7.73	4.28
259.00	258.59	4.0	224.9	-6.04	-3.53	7.85	4.28
260.00	259.59	4.0	224.9	-6.13	-3.66	7.97	4.28
261.00	260.58	4.0	224.6	-6.22	-3.79	8.09	4.28
262.00	261.58	4.0	224.6	-6.09	-3.53	7.93	4.28
263.00	262.58	4.0	224.6	-6.17	-3.67	8.05	4.28
264.00	263.58	4.0	224.6	-6.25	-3.81	8.17	4.28
265.00	264.57	4.0	223.3	-6.31	-3.97	8.29	4.28
266.00	265.57	4.0	223.3	-6.37	-4.13	8.41	4.28
267.00	266.57	4.0	223.3	-6.43	-4.29	8.53	4.28
268.00	267.57	4.0	223.3	-6.49	-4.45	8.65	4.28
269.00	268.56	4.0	227.4	-6.41	-4.61	8.79	4.28
270.00	269.56	4.0	227.4	-6.33	-4.77	8.93	4.28
271.00	270.56	4.0	227.4	-6.25	-4.93	8.97	4.28
272.00	271.55	4.0	228.4	-6.16	-5.09	9.08	4.28
273.00	272.55	4.0	228.4	-6.08	-5.25	9.22	4.28
274.00	273.55	4.0	228.4	-6.00	-5.41	9.36	4.28
275.00	274.54	4.0	228.9	-6.02	-5.56	9.51	4.27
276.00	275.54	4.0	228.9	-6.04	-5.71	9.67	4.27
277.00	276.54	4.0	228.9	-6.06	-5.87	9.82	4.27
278.00	277.53	4.0	229.5	-6.07	-6.02	9.98	4.27
279.00	278.53	4.0	229.5	-7.10	-4.33	11.11	4.32
280.00	279.53	4.0	229.5	-7.13	-4.49	11.29	4.32
281.00	280.53	4.0	229.5	-7.16	-4.65	11.47	4.32
282.00	281.52	4.0	233.8	-7.23	-4.78	11.62	4.34
283.00	282.52	4.0	233.8	-7.29	-4.91	11.77	4.34
284.00	283.51	4.0	233.8	-7.36	-5.04	11.92	4.34
285.00	284.51	4.1	234.8	-7.45	-4.87	12.12	4.60
286.00	285.51	4.1	234.8	-7.54	-4.70	12.32	4.60
287.00	286.51	4.1	234.8	-7.63	-4.53	12.52	4.60
288.00	287.50	4.0	234.8	-7.71	-4.36	12.72	4.60
289.00	288.50	4.0	234.8	-7.79	-4.19	12.92	4.60
290.00	289.49	4.0	235.3	-7.86	-3.10	13.1	4.91
291.00	290.49	4.0	235.3	-7.93	-2.93	13.3	4.91
292.00	291.49	4.0	235.3	-8.00	-2.76	13.5	4.91
293.00	292.47	5.2	236.0	-8.05	-0.29	13.5	9.62
294.00	293.47	5.2	236.0	-8.11	-0.29	13.6	9.62
295.00	294.47	5.2	236.0	-8.16	-0.29	13.7	9.62
296.00	295.46	5.2	234.9	-8.21	-0.49	13.8	9.68
297.00	296.46	5.2	234.9	-8.26	-0.69	13.9	9.68
298.00	297.46	5.2	234.9	-8.31	-0.89	14.0	9.68
299.00	298.45	5.4	238.2	-8.36	-0.94	14.1	9.74
300.00	299.45	5.4	238.2	-8.41	-0.99	14.2	9.74
301.00	300.45	5.4	238.2	-8.46	-1.04	14.3	9.74
302.00	301.43	5.4	240.1	-8.51	-1.09	14.4	9.81
303.00	302.43	5.4	240.1	-8.57	-1.14	14.5	9.81
304.00	303.43	5.4	240.1	-8.62	-1.19	14.6	9.81
305.00	304.42	5.4	241.1	-8.67	-1.24	14.7	9.87
306.00	305.42	5.4	241.1	-8.72	-1.29	14.8	9.87
307.00	306.42	5.4	241.1	-8.77	-1.34	14.9	9.87
308.00	307.41	5.2	244.1	-8.79	-0.22	15.0	10.77
309.00	308.41	5.2	244.1	-8.81	-0.11	15.0	10.77
310.00	309.41	5.2	244.1	-8.83	0.00	15.0	10.77
311.00	310.40	5.9	247.3	-8.85	0.46	15.1	11.03
312.00	311.40	5.9	247.3	-8.86	0.91	15.2	11.03
313.00	312.40	5.9	247.3	-8.88	1.37	15.3	11.03
314.00	313.39	5.9	248.1	-8.90	1.82	15.4	11.30
315.00	314.39	5.9	248.1	-8.12	1.72	14.1	11.30
316.00	315.39	5.9	248.1	-8.13	1.62	14.2	11.30
317.00	316.38	5.9	248.8	-8.15	1.52	14.3	11.31
318.00	317.37	6.5	248.6	-8.26	-8.57	24.7	11.51
319.00	318.37	6.5	248.6	-8.37	-8.57	24.8	11.51
320.00	319.37	6.5	248.6	-8.48	-8.57	24.9	11.51
321.00	320.36	6.5	248.4	-8.59	-8.57	25.0	11.51
322.00	321.36	6.5	248.4	-8.70	-8.57	25.1	11.51
323.00	322.35	6.5	248.4	-8.81	-8.57	25.2	11.51
324.00	323.35	6.5	248.4	-8.92	-8.57	25.3	11.51
325.00	324.35	6.5	248.4	-9.15	-7.31	25.8	11.88
326.00	325.34	6.5	248.4	-9.38	-6.05	26.3	11.88
327.00	326.34	6.5	248.4	-9.61	-4.79	26.8	11.88
328.00	327.33	6.5	248.4	-9.84	-3.53	27.3	11.88
329.00	328.33	6.5	248.4	-9.75	-1.76	27.6	12.47

Cross Section



Vertical Sections



Depth Correction Analysis

Depths Log	Depths True	Depths Log	Depths True	Depths Log	Depths True
142.80	142.80	211.00	208.72	279.00	277.53
143.00	143.00	212.00	209.72	280.00	278.53
144.00	143.99	213.00	210.72	281.00	279.53
145.00	145.00	214.00	211.72	282.00	280.52
146.00	146.00	215.00	212.71	283.00	281.52
147.00	146.99	216.00	213.71	284.00	282.51
148.00	147.99	217.00	214.71	285.00	283.51
149.00	148.99	218.00	215.71	286.00	284.51
150.00	149.99	219.00	216.70	287.00	285.50
152.00	151.98	220.00	217.70	288.00	286.50
153.00	152.98	221.00	218.70	289.00	287.49
154.00	153.98	222.00	219.70	290.00	288.49
155.00	154.97	223.00	220.69	291.00	289.49
156.00	155.97	224.00	221.69	292.00	290.48
157.00	156.97	224.55	222.06	293.00	291.48
158.00	157.96	225.00	222.38	294.00	292.47
159.00	158.96	226.00	223.08	295.00	293.47
160.00	159.96	227.00	223.78	296.00	294.46
161.00	160.96	228.00	224.49	297.00	295.46
162.00	161.95	229.00	225.19	298.00	296.45
163.00	162.95	230.00	225.89	299.00	297.45
164.00	163.95	231.00	226.59	300.00	298.45
165.00	164.95	232.00	227.29	301.00	299.45
166.00	165.94	233.00	227.99	302.00	300.45
167.00	166.94	234.00	228.69	303.00	301.45
168.00	167.94	235.00	229.39	304.00	302.45
169.00	168.94	236.00	230.09	305.00	303.45
170.00	169.93	237.00	230.79	306.00	304.45
171.00	170.94	238.00	231.49	307.00	305.45
172.00	171.93	239.00	232.19	308.00	306.45
173.00	172.93	240.00	232.89	309.00	307.45
174.00	173.93	241.00	233.59	310.00	308.45
175.00	174.93	242.00	234.29	311.00	309.45
176.00	175.93	243.00	234.99	312.00	310.45
177.00	176.92	244.00	235.69	313.00	311.45
178.00	177.92	245.00	236.39	314.00	312.45
179.00	178.92	246.00	237.09	315.00	313.45
180.00	179.92	247.00	237.79	316.00	314.45
181.00	180.92	248.00	238.49	317.00	315.45
182.00	181.92	249.00	239.19	318.00	316.45
183.00	182.92	250.00	239.89	319.00	317.45
184.00	183.91	251.00	240.59	320.00	318.45
185.00	184.91	252.00	241.29	321.00	319.45
186.00	185.91	253.00	241.99	322.00	320.45
187.00	186.90	254.00	242.69	323.00	321.45
188.00	187.90	255.00	243.39	324.00	322.45
189.00	188.90	256.00	244.09	325.00	323.45
190.00	189.90	257.00	244.79	326.00	324.45
191.00	190.90	258.00	245.49	327.00	325.45
192.00	191.90	259.00	246.19	328.00	326.45
193.00	192.89	260.00	246.89	329.00	327.45
194.00	193.89	261.00	247.59		
195.00	194.89	262.00	248.29		
196.00	195.88	263.00	248.99		
197.00	196.88	264.00	249.69		
198.00	197.88	265.00	250.39		
199.00	198.75	266.00	251.09		
200.00	199.75	267.00	251.79		
201.00	200.75	268.00	252.49		
202.00	201.74	269.00	253.19		
203.00	202.74	270.00	253.89		
204.00	203.74	271.00	254.59		
205.00	204.73	272.00	255.29		
206.00	205.73	273.00	255.99		
207.00	206.73	274.00	256.69		
208.00	207.73	275.00	257.39		
209.00	208.72	276.00	258.09		
210.00	209.72	277.00	258.79		

3D Borehole Deviation

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV99-035		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	322.70 metres	
Elevation Grd Floor	metres	154.00 metres	
Elevation Ground Level	metres	Depth Logger 333.48 metres	

Weatherford

VERTICALITY ANALYSIS

GEOPHYSICAL SERVICES
COMPUTED PROCESSED DATA
FOR
COMPLANCE COAL CORP.
NIVAGA DIA
UNDEFINED
BRITISH COLUMBIA
CANADA

Company Name	COMPLANCE COAL CORP
Well Name	NIVAGA DIA
Field	UNDEFINED
Province/Country	BRITISH COLUMBIA
Country	CANADA
Logging Date	Jul 8, 2008
Log Type	PROCESSED DATA
Run Number	ONE
Depth Reference	GROUND LEVEL
Elevation	0.00 m
Permanent Datum	GROUND LEVEL
Log Measured From	0.00 m Above Perm. Datum
Drilled Depth	150.00 m

COAL LITHOLOGY
GAMMA RAY, CALIPER
COAL DETAIL ZONES

Weatherford

BOREHOLE RECORD

Bit Size	Last Casing Size: 0.0167-2008-3-1
152.400 mm	Casing
152.400 mm	88.90 mm

Top	Bottom	Hole Fluid	Hole Fluid Density	Hole Fluid Viscosity
0.00 m	150.00 m	WATER	1.00 g/cc	1.00 cp

CASING RECORD

Top	Bottom	Size	Weight	Grade
0.00 m	6.00 m	88.90 mm	0.00 kg/m	

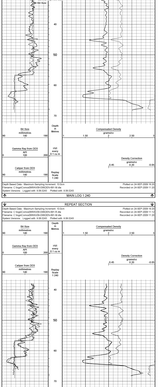
REMARKS

COMMENTS
SUPERVISOR
OPERATOR
RIG
DATA: NONE LOGGED DEPTH OF 6m

all interpretations are opinions based on inferences from electrical or other measurements, we can not, and do not, guarantee the accuracy or correctness of any interpretation, and we shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. these interpretations are also subject to our general terms and conditions as set out in our current price schedule.

MAIN LOG 1:240

Well Name: Company: Nivaga Dia Field: Undefined Province: Country: Canada Latitude: Longitude: Elevation: Permanent Datum: Ground Level Log Measured From: 0.00 m Above Perm. Datum Drilled Depth: 150.00 m Date: Jul 8, 2008 Run Number: ONE Depth Reference: GROUND LEVEL Depth Scale: 1:240 Processed on: 2008-Jul-08 Time: 14:00:00 Version: 2.0.0.0 Software: 1.0.0.0 Input Data Type: Minimum Recording Increment: 0.0167 Processed Data Type: Minimum Recording Increment: 0.0167 Depth Increment: 0.0167 Log Interval: 0.00 m - 150.00 m Processed Log Interval: 0.00 m - 150.00 m Log Speed: 0.00 m/min Processed Log Speed: 0.00 m/min Generated by Weatherford Geophysical Services Version: 1.0.0.0 Generated: 2008-Jul-08 Time: 14:00:00 Version: 2.0.0.0 Software: 1.0.0.0


Bit Size
mm 152.400 152.400
Caliper Size (BS)
mm 152.400 152.400
Gamma Ray Scale (GR)
API 0.00 150.00
Compensated Density
g/cc 1.20 2.20
Density Correction
g/cc -0.20 0.20
Density Raw Signal
g/cc 1.20 2.20
Density Raw Signal
g/cc 1.20 2.20
Density Raw Signal
g/cc 1.20 2

VERTICALITY ANALYSIS

COMPANY COMPLIANCE COAL CORP
WELL RAV09-036
FIELD UNDEFINED
PROVINCE/COUNTRY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Depth	Azi	Incl	Depth	Azi	Incl	Depth	Azi	Incl	Depth	Azi	Incl
0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0
56.70	0.0	0.0	56.70	0.0	0.0	56.70	0.0	0.0	56.70	0.0	0.0
68.85	0.0	0.0	68.85	0.0	0.0	68.85	0.0	0.0	68.85	0.0	0.0

Survey Company: Weatherford
Survey Type: Single Shot
Survey Date: 24-SEP-2009
Tool Number: 1.5 SL 0.50 North
Tool Type: Magnetic
Tool Error Model: Generic Magnetic
Depth Unit: Metres
Direction Unit: Degrees
Inclination Unit: Degrees
Depth Reference: Drill Floor
Vertical Section Azimuth: 0.0
Calculation Method: Minimum Curvature
Vertical Section Type: Absolute
Vertical Section Plane: Vertical
Vertical Section Scale: 1:500
Vertical Section Origin: 0.00 N 0.00 E
Vertical Section Reference: Wellhead
Vertical Section Precision: 2
Vertical Section Output Units: Metres
Depth Precision: 2
Angle Precision: 2
Coordinate Precision: 2
Dogleg Severity Precision: 2
Dogleg Severity Output Units: Degrees per 30 Metres
Dogleg Severity Type: Total
Dogleg Severity Calculation Method: Minimum Curvature
Dogleg Severity Interpolation: Off
Dogleg Severity Interval: 30.00
Dogleg Severity Reference: Wellhead
Dogleg Severity Output Precision: 2
Dogleg Severity Output Precision: 2
Dogleg Severity Output Precision: 2