COMPOSITE COAL LOG

COMPANY COMPLIANCE COAL CORP
WELL RAV009-009C
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

11UNK	11UNK	11UNK	11UNK	11UNK	11UNK	11UNK	11UNK
1	2	3	4	5	6	7	8
2.54-3.4	3.4-4.4	4.4-5.4	5.4-6.4	6.4-7.4	7.4-8.4	8.4-9.4	9.4-10.4
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Weatherford

Weatherford Canada Partnership
Suite 1000, 250 - 2nd Street S.W.
Calgary, Alberta T2P 0C1
Phone: (403) 537-1500 Fax: (403) 537-1699

Well Name: 100/06-29-047-24W4/00
Surface Location: 100/06-29-047-24W4/00
Licence: 0
Province: ALBERTA
Spud Date: 2-Jun-2011
Drilling Completed: 11-Jun-2011
Logging Completed: 11-Jun-2011
Rig Release: 12-Jun-2011
Drilling Fluid Type: Water Based
Logging Company: Weatherford
Logging Equipment: 2-Man Skidded
Logging Unit Number: 1
Logging Unit Location: Calgary
Logging Engineer(s): Ryan Ferguson
Logging Supervisor(s): Ryan Ferguson
Logging Witnessed By: Mr. Jeff Ferguson
Logging Witnessed By: Mr. Jeff Ferguson
**Logging Witnessed By: Mr. Jeff

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV006-009C
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Drill Floor	metres
Elevation Ground Level	metres
Permanent Datum	GL
Elevation Above Permanent Datum	metres
Log Measured From	GL
Drilling Measured From	GL
Date	07-JUN-2009
Run Number	1
Depth Driller	243.84
Depth Logger	243.84
Bottom Log Interval	243.84
Top Log Interval	0.00
Drilling Fluid Type	WATER
Spud Date	5-JUN-2009
Drilling Contractor	Ordog Mainwaring Drilling
Rig Name	Ordog Mainwaring Drilling
Bit Size	152.400 mm
Type Fluid in Hole	Water
Density	kg/m³
Viscosity	s
PH	
Fluid Loss	mL
Source of Sample	Flowline
Rm @ Measured Temp	ohmm @ degC
Rmf @ Measured Temp	ohmm @ degC
Rmc @ Measured Temp	ohmm @ degC
Source of Rmf / Rmc	
Rm @ BHT	ohmm @ degC
Max Recorded Temp	degC
Equipment Name	
Equipment Number	
Location	
Recorded By	C.BLUDHORN
Witnessed By	

Log	Start	Stop	Step	Units
Gamma Ray	0.00	243.84	0.25	metres
Density	0.00	243.84	0.25	metres
Neutron	0.00	243.84	0.25	metres
Caliper	0.00	243.84	0.25	metres
Temperature	0.00	243.84	0.25	metres

Log Measured From: GL, 0.00 metres above Permanent Datum

Drilling Measured From: GL

Top Log Interval: 0.00 metres

Bottom Log Interval: 243.84 metres

Open Boreholes: 152.400 mm @ 0.00 - 243.84 metres

Open Casings: 152.400 mm @ 0.00 - 243.84 metres

Max Deviation: 0.00 degrees

Max Dogleg: 0.00 degrees

Max Dogleg Interval: 0.00 degrees

Max Dogleg Depth: 0.00 metres

Max Deviation Depth: 0.00 metres

Max Temperature: degC

Max Temperature Depth: metres

Max Temperature Date: 07-JUN-2009

Max Temperature Time: 17:04

Max Temperature Log: Temperature

Max Temperature Run: 1

Max Temperature Bit Size: 152.400 mm

Max Temperature Fluid Type: Water

Max Temperature Fluid Density: kg/m³

Max Temperature Fluid Viscosity: s

Max Temperature Fluid PH: PH

Max Temperature Fluid Loss: mL

Max Temperature Fluid Source: Flowline

Max Temperature Fluid Rm: ohmm @ degC

Max Temperature Fluid Rmf: ohmm @ degC

Max Temperature Fluid Rmc: ohmm @ degC

Max Temperature Fluid Source Rmf/Rmc:

Max Temperature Fluid Rm @ BHT: ohmm @ degC

Max Temperature Equipment Name:

Max Temperature Equipment Number:

Max Temperature Location:

Max Temperature Recorded By: C.BLUDHORN

Max Temperature Witnessed By:

BOREHOLE RECORD

Last Edited: 07-JUN-2009 17:04

Bit Size millimetres	Depth From metres	Depth To metres
152.400	0.00	91.20
151.000	91.20	168.50
140.000	168.50	243.84

CASING RECORD

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

REMARKS

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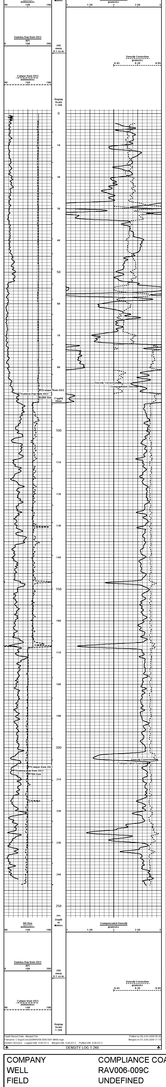
DENSITY LOG 1:200
NEUTRON LOG 1:200
Gamma Ray Scale 0/50
Caliper Scale 0/12
Density Correction Scale -0.25 0.25
Neutron Porosity Scale 45 -15
Density Scale 1.95 2.95
Caliper Scale 0/12

Depth Scale: 20 m	Logged: 3-JUN-2009	Logged on: 3-JUN-2009	Logged on: 3-JUN-2009
Filename: C:\logs\Canico\RAV006-SBK-003-REPEAT.mgx			
Filename: C:\logs\Canico\RAV006-SBK-003-MAIN.mgx			
Sensors Versions - Logged with 3-SEP-2008	Merged with 4-SEP-2008	Merged on 4-SEP-2008	Merged on 4-SEP-2008

DUAL FOCUSSED ELECTRIC GAMMA RAY

COMPLIANCE COAL CORP
RAV006 COAL
UNDEFINED
BRITISH COLUMBIA
CANADA

Depth Scale: 20 m	Logged: 3-JUN-2009	Logged on: 3-JUN-2009	Logged on: 3-JUN-2009
Filename: C:\logs\Canico\RAV006-SBK-003-REPEAT.mgx			
Filename: C:\logs\Canico\RAV006-SBK-003-MAIN.mgx			
Sensors Versions - Logged with 3-SEP-2008	Merged with 4-SEP-2008	Merged on 4-SEP-2008	Merged on 4-SEP-2008

BOREHOLE RECORD

Last Edited: 07-JUN-2009 17:00

Bit Size	Depth From	Depth To
152.400	0.00	91.30
152.400	91.30	243.00
152.400	243.00	249.00

CASING RECORD

Type	Size (diameter)	Depth From (metres)	Shoe Depth (metres)	Weight (kg/m)

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MAIN LOG 1:240

Depth Scale: 20 m Logged: 3-JUN-2009 Logged on: 3-JUN-2009 Logged on: 3-JUN-2009
Filename: C:\logs\Canico\RAV006-SBK-003-REPEAT.mgx
Filename: C:\logs\Canico\RAV006-SBK-003-MAIN.mgx
Sensors Versions - Logged with 3-SEP-2008 Merged with 4-SEP-2008 Merged on 4-SEP-2008 Merged on 4-SEP-2008

Gamma Ray API 0 150 | Caliper 6mm 16mm | FE Resistivity Shallow ohm metres 0.30 10 100 1000 | FE Resistivity Deep ohm metres 0.30 10 100 1000 | Bit Size millimetres 100 300 | Display Scale 1:240 | Depth Metres

REPEAT SECTION

Depth Scale: 20 m Logged: 3-JUN-2009 Logged on: 3-JUN-2009 Logged on: 3-JUN-2009
Filename: C:\logs\Canico\RAV006-SBK-003-REPEAT.mgx
Filename: C:\logs\Canico\RAV006-SBK-003-MAIN.mgx
Sensors Versions - Logged with 3-SEP-2008 Merged with 4-SEP-2008 Merged on 4-SEP-2008 Merged on 4-SEP-2008

Gamma Ray API 0 150 | Caliper 6mm 16mm | FE Resistivity Shallow ohm metres 0.30 10 100 1000 | FE Resistivity Deep ohm metres 0.30 10 100 1000 | Bit Size millimetres 100 300 | Display Scale 1:240 | Depth Metres

REPEAT SECTION

Depth Scale: 20 m Logged: 3-JUN-2009 Logged on: 3-JUN-2009 Logged on: 3-JUN-2009
Filename: C:\logs\Canico\RAV006-SBK-003-REPEAT.mgx
Filename: C:\logs\Canico\RAV006-SBK-003-MAIN.mgx
Sensors Versions - Logged with 3-SEP-2008 Merged with 4-SEP-2008 Merged on 4-SEP-2008 Merged on 4-SEP-2008

Gamma Ray API 0 150 | Caliper 6mm 16mm | FE Resistivity Shallow ohm metres 0.30 10 100 1000 | FE Resistivity Deep ohm metres 0.30 10 100 1000 | Bit Size millimetres 100 300 | Display Scale 1:240 | Depth Metres

BEFORE SURVEY CALIBRATION

C:\logs\Canico\RAV006-SBK-003-MAIN.mgx

Last Edited on 21-MAY-2009 15:10

General Constants: AV 000

General Parameters		
Mud Resistivity	0.310	ohm-metres
Mud Temperature	21.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Water Level Switch	
Borehole Volume and Differential Caliper		
HAZ1 Caliper Used	Caliper from DDS	
HAZ2 Caliper 2	Caliper from DDS	
Caliper for Density Calculation	Caliper from DDS	mm
Caliper for Differential Caliper	Caliper from DDS	
Raw Parameters		
Density Raw	N/A	
Resistivity Raw	N/A	
HAZ Conditioned A	N/A	
HAZ Conditioned B	N/A	

Gamma Calibration: DDS 660

Gamma Calibration Number 425 — Field Calibration on 21-MAY-2009 15:46

	Measured	Calibrated (API)
Background	27	27
Calibration (Gross)	296	450
Calibration (Net)	269	423

Density Calibration: DDS 695

Density Calibration Number 425 — Last Edited on 21-MAY-2009 15:40

Base Calibration		
Mat Yoke	Measured	Calibrated (cps)
	3044 1.447	3047 1.000
Reference 1	2 0.000	2 0.000
Reference 2	0 0	0 0
Dry Yoke	Measured	Calibrated (cps)
Reference 1	2616 1.144	2616 2616
Reference 2	0 0	0 0
Field Check of Base		Calibrated (cps)
		2.0 0.0
Field Check		Calibrated (cps)
		2.0 0.0

Density Calibrate: DDS 695

Density Calibrate Number 425 — Last Edited on 06-JUN-2009 17:10

Processing Type	DDS	
Density Device Id	3014E-B	
Density Calibration Number	425	
Calibrate Source For Processing	Calibrate from Density	
Mud Density Source Input	Fixed	
Mud Density	1.11	grams
Mud Density Density	1.11	grams
BHC Gauge	-0.32	
Density Gauge	0.00	
Density Ranges (grams)	Depth Start	Depth End
	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 Yoke Normalization	Measured (ps)	Calibrated (ps)
BKD Point 1	3.00	3.00
BKD Point 2	3.00	3.00
BKD Point 3	3.00	3.00
BKD Point 4	3.00	3.00
Dry Yoke Normalization	Measured (ps)	Calibrated (ps)
BKD Point 1	3.00	3.00
BKD Point 2	3.00	3.00
BKD Point 3	3.00	3.00
BKD Point 4	3.00	3.00

Caliper Calibration: DDS 695

Base Calibration on 21-MAY-2009 15:48
Field Calibration on

Base Calibration Reading No	Measured	Calibrated Ring Size (mm)
1	0	0.00
2	2016	152.40
3	2016	152.40
4	3984	127.00
5	3984	127.00
6	5952	203.20
Field Calibration	Measured (Caliper 2mm)	Actual Caliper (mm)
	0.00	0.00

FE Calibration: RRS 544

Field Calibration on 21-MAY-2009 15:38

	Measured Shallow (ohm-m)	Calibrated Shallow (ohm-m)	Calibrated (ohm-m) Deep
Reference 1	1000.0	1000.0	1000.0
Reference 2	3000.0	2745.0	1918.0

FE Constants: RRS 544

FE Constant R3340 (ohms = shallow) 2.100
FE Constant R3340 (ohms = deep) 1.942

Gamma Calibration: RRS 544

Field Calibration on 21-MAY-2009 15:40

	Measured	Calibrated (API)
Background	18	25
Calibration (Gross)	274	450
Calibration (Net)	256	425

Gamma Calibration: RRS 544

Gamma Calibration Number 425 — Last Edited on 21-MAY-2009 15:41

Resistivity Tool Constants: RRS 544

Sonde Mode	FE Mode	
Bridle Electrode In Test (ohm)	1000.00	

Sonde Constants: MSI 338

Last Edited on 28-MAY-2009 14:52

Maximum Stretching Contract	329.08	micro-seconds
Maximum Stretch	329.08	micro-seconds
Latestone Transit Time	153.84	micro-seconds
Latestone Transit Time	153.84	micro-seconds
Distance Transit Time	142.73	micro-seconds
Sonde Type Identification	DTC4-M-cos Compensated Sonde	
Sonde Serial Number	MC-34-35 Ser.No.R3944	
UCS Constant	1052.00	MPa
Transmitter Receiver 1 Offset	24.00	inches
Transmitter Receiver 2 Offset	24.00	inches
Transmitter Receiver 3 Offset	40.00	inches
Transmitter Receiver 4 Offset	40.00	inches
Transmitter Receiver 5 Offset	48.00	inches

Borehole Geometry Constants: VSA 297

Last Edited on 31-MAY-2009 11:33

	Diameter			
Bit Size	15.10	degrees	East	

COMPANY	COMPLIANCE COAL CORP
WELL	RAV006-SBK-003
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Logging Unit Number	3	Total Reading	243.84	metres	
Elevation Drill Floor	metres	Depth Logger	243.84	metres	
Elevation Ground Level	metres	Depth Logged	243.84	metres	

Weatherford

DUAL FOCUSSED ELECTRIC GAMMA RAY

60CM COMPENSATED SONIC

Company	COMPLIANCE COAL CORP
Well	RAVOR-005C
Field	UNDEFINED
Province/Country	BRITISH COLUMBIA
Country/State	CANADA
Latitude/Longitude	49.4 / -114.9
Elevation	Kelly Bushing 1000.00 m above Mean Sea Level
Log Date	26-Jun-2006
Log Number	1
Run Number	1
Depth Reference	Kelly Bushing
Depth Logged	245.00 m
Depth Logged	803.50 ft

COMPANY	COMPLIANCE COAL CORP
WELL	RAV006-009C
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

VERTICALITY ANALYSIS

Weatherford INTERNATIONAL	Weatherford INTERNATIONAL	COMPLIANCE COAL CORP	RAV006-009C
Vertical Section Direction: 0.00	Vertical Section Direction: 0.00	Vertical Section Direction: 0.00	Vertical Section Direction: 0.00

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV06-010C
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Licence Number	Elevation Kelly Bushing	metres
Log Measured From	GROUND LEVEL Above Permanent Datum	
Drilling Measured From		
Run Number	1	
Date	04-JUN-2009	
Depth Driller	170.28	metres
Depth Logger	170.28	metres
First Reading	0.00	metres
Last Reading	170.28	metres
Casing Driller	54.80	metres
Casing Logger	54.80	metres
Bit Size	216	mm
Type Fluid in Hole	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		
Time Since Circulation		
Time Since Cement		
Equipment / Base		
Witnessed By		
Recorded By	O. CULLINGHAM	

BEC	TWP	RGE	Other Services

Elevations		
KB		
DF		
GL		

BOREHOLE RECORD

Last Edited: 07-JUN-2009 18:10

Bit Size millimetres	Depth From metres	Depth To metres
166.100	0.00	54.80
160.000	54.80	97.70
141.000	97.70	170.28

CASING RECORD

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

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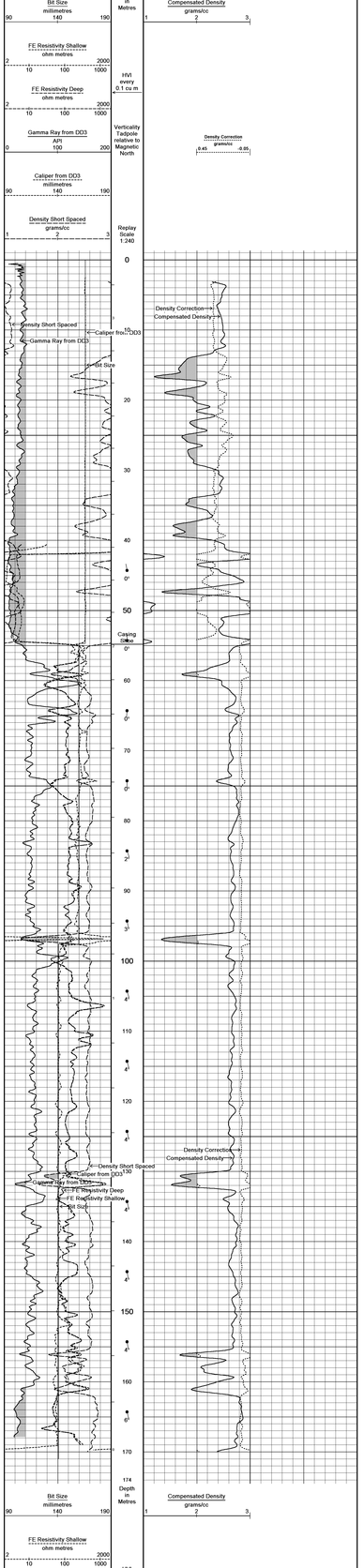
COMPOSITE LOG 1:240

Depth Based Data - Merged File — Plotted on 08-JUN-2009 09:01
Filename: C:\logs\Comcol09\RAV06-010C\010C-MAIN.mge — Merged on 07-JUN-2009 17:56
System Versions: Logged with: 8.06.0212 Merged with: 8.06.0212 Plotted with: 8.06.0212



Depth Based Data - Merged File — Plotted on 08-JUN-2009 09:01
Filename: C:\logs\Comcol09\RAV06-010C\010C-MAIN.mge — Merged on 07-JUN-2009 17:56
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	RAV06-010C
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	170.28	metres
Elevation Drill Floor	metres	Depth Driller	170.67	metres
Elevation Ground Level	metres	Depth Logger	170.28	metres

Weatherford

COMPOSITE COAL LOG

WELL TEST DATA
CONSOLIDATED SUMMARY

Company	EXXON CANADA RESOURCES LIMITED	Date	1-Jan-1900
Well	UNDIFFERENTIATED	Time	00:00
Field	UNDIFFERENTIATED	Operator	
Country	CANADA, BRITISH COLUMBIA	Rig	
Comments			

RUN SUMMARY

Run	Date	Time	Type Test	Recorder	Depth
1	1-Jan-1900	00:00	Pressure Survey		

RECORDER DETAILS

Recorder	Serial Number	Capacity	Clock Range	Clock Error
1	1	1	1	1

RUN 1

Time	Depth	Type Test	Pre Flow	Recorder
00:00	0.0	Pressure Survey	0.0	1

COMMENTS

Pressure Survey Report - Pressure Survey Report - Pressure Survey Report -

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV06-010C
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
UWI	
LSD / SEC / TWP / RGE	Other Services: VERTICALITY
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	04-JUN-2009				
Run Number	1				
Depth Driller	170.67	metres			
Depth Logger	170.28	metres			
First Reading	170.28	metres			
Last Reading	0.00	metres			
Casing Driller	54.86	metres			
Casing Logger	54.80	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	RR5/DD6		544/691		
Equipment / Base	11536	RDR			
Recorded By	C.SHUPE				
Witnessed By	O.CULLINGHAM				

BOREHOLE RECORD

Last Edited: 07-JUN-2009 18:10

Bit Size (millimetres)	Depth From (metres)	Depth To (metres)
166.100	0.00	54.80
160.000	54.80	97.70
141.000	97.70	170.28

CASING RECORD

Type	Size (millimetres)	Depth From (metres)	Shoe Depth (metres)	Weight (Kg/metre)

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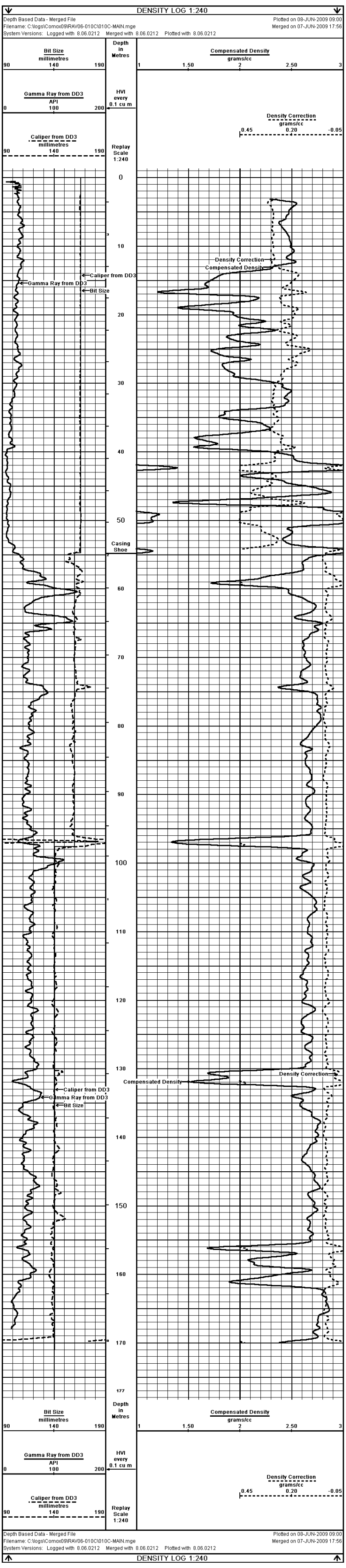

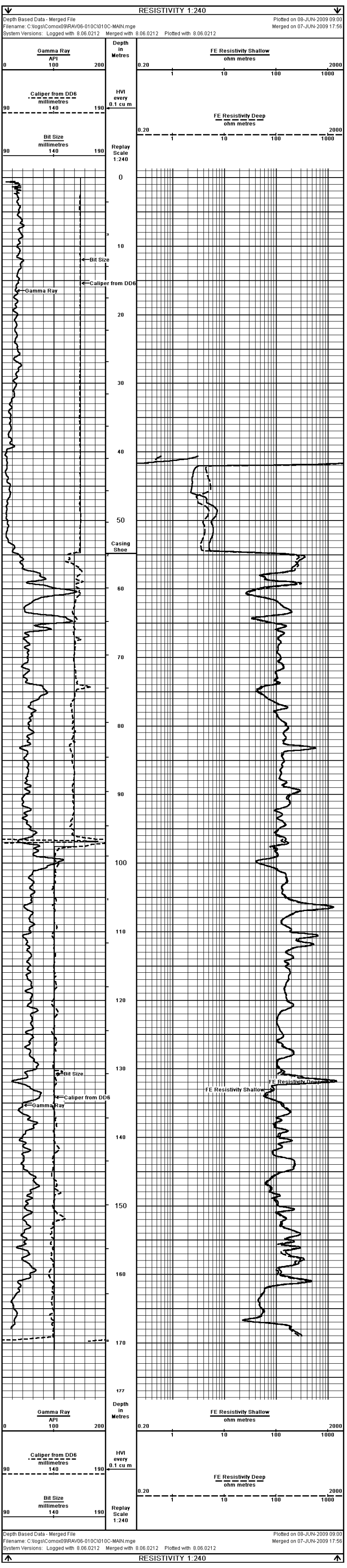

COMPANY	COMPLIANCE COAL CORP			
WELL	RAV06-010C			
FIELD	UNDEFINED			
PROVINCE/COUNTY	BRITISH COLUMBIA			
COUNTRY/STATE	CANADA			
Elevation Kelly Bushing	metres	First Reading	170.28	metres
Elevation Drill Floor	metres	Depth Driller	170.67	metres
Elevation Ground Level	metres	Depth Logger	170.28	metres

Weatherford®

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAVOK-010C
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Ground	metres
Elevation Ground Level	metres
First Reading	170.20 metres
Last Reading	1000.00 metres
Depth Logger	170.26 metres
Depth Log	1000.00 metres

Weatherford

DUAL FOCUSSED ELECTRIC
GAMMA RAY

COMPLIANCE COAL CORP
RAVOK-010C
UNDEFINED
BRITISH COLUMBIA
CANADA
DUAL FOCUSSED ELECTRIC
GAMMA RAY

BOREHOLE RECORD			Last Edited 07-JUN-2009 18:10
Bit Size (mm)	Depth From (m)	Depth To (m)	
165.10	0.00	174.00	
140.00	174.00	1000.00	
165.100	54.10	57.10	
140.000	170.00	170.26	

CASING RECORD			
Type	Size (mm)	Depth From (m)	Shoe Depth (m)	Weight (kg/m)
Casing	244.5	0.00	54.10	69.00

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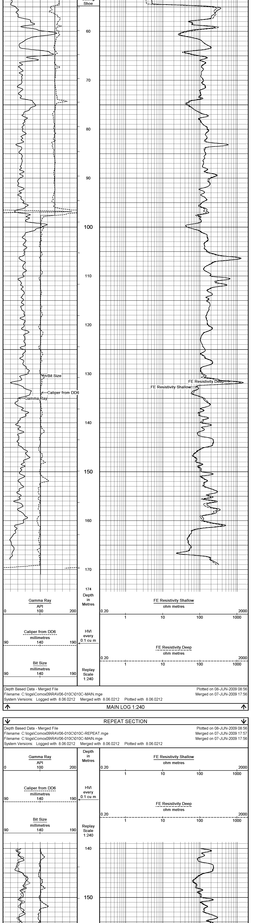
MAIN LOG 1:240

Depth Based Data - Merged File — Printed on 08-JUN-2009 08:55
Filename: C:\logs\Cosmos\09\RAVOK-010C\010C-MAIN.mge — Merged on 07-JUN-2009 17:56
System Versions: Logged with 6.08.02012 Merged with 6.08.02012 Plotted with 6.08.02012

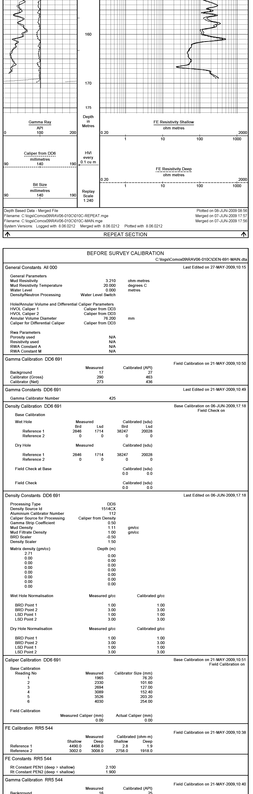
Gamma Ray (API) 0–100; Caliper from DDS (millimetres) 140–190; Bit Size (millimetres) 140–190; HVI, every 2.7 m; Depth (m); Display Scale 1:240; FE Resistivity Shallow (ohm metres) 0.20–2000; FE Resistivity Deep (ohm metres) 0.20–2000



REPEAT SECTION

Depth Based Data - Merged File — Printed on 08-JUN-2009 08:55
Filename: C:\logs\Cosmos\09\RAVOK-010C\010C-REPEAT.mge — Merged on 07-JUN-2009 17:57
System Versions: Logged with 6.08.02012 Merged with 6.08.02012 Plotted with 6.08.02012

Gamma Ray (API) 0–100; Caliper from DDS (millimetres) 140–190; Bit Size (millimetres) 140–190; HVI, every 2.7 m; Depth (m); Display Scale 1:240; FE Resistivity Shallow (ohm metres) 0.20–2000; FE Resistivity Deep (ohm metres) 0.20–2000



BEFORE SURVEY CALIBRATION

C:\logs\Cosmos\09\RAVOK-010C\CES 001-BEFOR.dfa

Last Edited on 27-MAY-2009,10:15

General Constants: All 000

Decimal Parameters		
Mud Density	3.210	ohm metres
Mud Resistivity Temperature	20.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Water Level Density	

Hole Volume

Hole/Annular Volume and Differential Caliper Parameters	
HVOL Caliper 1	Caliper from DDS
HVOL Caliper 2	Caliper from DDS
Annular Volume Diameter	76.200 mm
Caliper for Differential Caliper	Caliper from DDS

Raw Parameters	
Porosity used	N/A
Porosity used	N/A
SWA Constant A	N/A
SWA Constant M	N/A

Gamma Calibration: DDS 691

Field Calibration on 21-MAY-2009,10:50

	Measured	Calibrated (API)
Background	0	0.0
Calibrator (Grove)	290	403
Calibrator (Net)	273	436

Gamma Constants: DDS 691

Last Edited on 21-MAY-2009,10:45

Gamma Calibrator Number 425

Density Calibration: DDS 691

Base Calibration on 06-JUN-2009,17:18
Field Check on

Base Calibration

Well Hole	Measured	Calibrated (solv)
	Long	Short Long Short
Reference 1	2646 1714	36347 20029
Reference 2	0 0	0 0

Dry Hole

	Measured	Calibrated (solv)
Reference 1	2646 1714	36347 20029
Reference 2	0 0	0 0

Field Check at Base

	Calibrated (solv)
	0.0 0.0

Field Check

	Calibrated (solv)
	0.0 0.0

Density Constants: DDS 691

Last Edited on 06-JUN-2009,17:18

Processing Type	DDS
Density Source M	1014CX
Density Calibration Number	1
Caliper Source For Processing	Caliper from Density
Gamma Strip Coefficient	0.50
Mud Density	1.00 grams
Mud Filtrate Density	1.00 grams
BBD Scaler	-0.50
Density Scaler	1.50

Matrix density (grams)

	Depth (m)
2.65	0.00
2.65	1.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

Wet Hole Normalisation	Measured g/cc	Calibrated g/cc
BBD Point 1	1.00	1.00
BBD Point 2	1.00	1.00
LSD Point 1	1.00	1.00
LSD Point 2	3.00	3.00

Dry Hole Normalisation	Measured g/cc	Calibrated g/cc
BBD Point 1	1.00	1.00
BBD Point 2	1.00	1.00
LSD Point 1	1.00	1.00
LSD Point 2	3.00	3.00

Caliper Calibration: DDS 691

Base Calibration on 21-MAY-2009,10:01
Field Calibration on

Base Calibration

Reading No	Measured	Calibrator Size (mm)
1	1065	76.20
2	2539	101.60
3	3984	127.00
4	2584	152.40
5	3526	203.20
6	4030	254.00

Field Calibration

	Measured Caliper (mm)	Actual Caliper (mm)
Reference 1	0.00	0.00

FE Calibration: RRS 544

Field Calibration on 21-MAY-2009,10:38

	Measured		Calibrated (ohm m)	
	Shallow	Deep	Shallow	Deep
Reference 1	4400.0	4400.0	2.4	1.9
Reference 2	3002.0	3000.0	2754.0	1919.0

FE Constants: RRS 544

8K Constant (FEM1 (deep + shallow)	2.100
8K Constant FEM2 (deep + shallow)	1.900

Gamma Calibration: RRS 544

Field Calibration on 21-MAY-2009,10:40

	Measured	Calibrated (API)
Background	0	0.0
Calibrator (Grove)	290	403
Calibrator (Net)	274	436

Gamma Constants: RRS 544

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

Gamma Calibrator Number 425

Resistivity Tool Constants: RRS 544

Guide Model	FE Mode
Bridle Electrode to Tool (mm)	1000.00

Borehole Geometry Constants VD4 230

Last Edited on 21-MAY-2009,11:31

Configuration	Diameter		
Magnetic Declination	18.00	degrees	East

COMPANY	COMPLIANCE COAL CORP
WELL	RAVOK-010C
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Ground	metres
Elevation Ground Level	metres
First Reading	170.20 metres
Last Reading	1000.00 metres
Depth Logger	170.26 metres
Depth Log	1000.00 metres

Weatherford

DUAL FOCUSSED ELECTRIC
GAMMA RAY

Date	Time	Depth	Operation	Comments
07-Jun-2009	19:30		Equipment Arrival	Weatherford Arrives on Location
	19:45		Safety Meeting	Safety Meeting - Rig Up Equipment
	20:00		Rig Up	Rig Up Equipment
	21:00		Pressure Test	Pressure Test Equipment
	21:15		Calibration	Calibration Tool
	21:30		Tool Check	Tool Check
	21:45		Tool Check	Tool Check
	22:00		Tool Check	Tool Check
	22:15		Tool Check	Tool Check
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	22:15		Tool Check	Tool Check
	22:30		Tool Check	Tool Check
	22:45		Tool Check	Tool Check
	23:00		Tool Check	Tool Check
	23:15		Tool Check	Tool Check
	23:30		Tool Check	Tool Check
	23:45		Tool Check	Tool Check
13-Jun-2009	00:00		Tool Check	Tool Check
	00:15		Tool Check	Tool Check
	00:30		Tool Check	Tool Check
	00:45		Tool Check	Tool Check
	01:00		Tool Check	Tool Check
	01:15		Tool Check	Tool Check
	01:30		Tool Check	Tool Check
	01:45		Tool Check	Tool Check
	02:00		Tool Check	Tool Check
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	03:30		Tool Check	Tool Check
	03:45		Tool Check	Tool Check
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	06:00		Tool Check	Tool Check
	06:15		Tool Check	Tool Check
	06:30		Tool Check	Tool Check
	06:45		Tool Check	Tool Check
	07:00		Tool Check	Tool Check
	07:15		Tool Check	Tool Check
	07:30		Tool Check	Tool Check
	07:45		Tool Check	Tool Check
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	08:15		Tool Check	Tool Check
	08:30		Tool Check	Tool Check
	08:45		Tool Check	Tool Check
	09:00		Tool Check	Tool Check
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	09:30		Tool Check	Tool Check
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	10:30		Tool Check	Tool Check
	10:45		Tool Check	Tool Check
	11:00		Tool Check	Tool Check
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	11:30		Tool Check	Tool Check
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	15:30		Tool Check	Tool Check
	15:45		Tool Check	Tool Check
	16:00		Tool Check	Tool Check
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	16:45		Tool Check	Tool Check
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	17:30		Tool Check	Tool Check
	17:45		Tool Check	Tool Check
	18:00		Tool Check	Tool Check
	18:15		Tool Check	Tool Check
	18:30		Tool Check	Tool Check
	18:45		Tool Check	Tool Check
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	20:45		Tool Check	Tool Check
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	22:45		Tool Check	Tool Check
	23:00		Tool Check	Tool Check
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	23:30		Tool Check	Tool Check
	23:45		Tool Check	Tool Check
14-Jun-2009	00:00		Tool Check	Tool Check
	00:15		Tool Check	Tool Check
	00:30		Tool Check	Tool Check
	00:45		Tool Check	Tool Check
	01:00		Tool Check	Tool Check
	01:15		Tool Check	Tool Check
	01:30		Tool Check	Tool Check
	01:45		Tool Check	Tool Check
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	04:30		Tool Check	Tool Check
	04:45		Tool Check	Tool Check
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	05:15		Tool Check	Tool Check
	05:30		Tool Check	Tool Check
	05:45		Tool Check	Tool Check
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	06:45		Tool Check	Tool Check
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	07:30		Tool Check	Tool Check
	07:45		Tool Check	Tool Check
	08:00		Tool Check	Tool Check
	08:15		Tool Check	Tool Check
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	08:45		Tool Check	Tool Check
	09:00		Tool Check	Tool Check
	09:15		Tool Check	Tool Check
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	14:45		Tool Check	Tool Check
	15:00		Tool Check	Tool Check
	15:15		Tool Check	Tool Check
	15:30		Tool Check	Tool Check
	15:45		Tool Check	Tool Check
	16:00		Tool Check	Tool Check
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	16:45		Tool Check	Tool Check
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	18:45		Tool Check	Tool Check
	19:00		Tool Check	Tool Check
	19:15		Tool Check	Tool Check
	19:30		Tool Check	Tool Check
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	20:15		Tool Check	Tool Check
	20:30		Tool Check	Tool Check
	20:45		Tool Check	Tool Check
	21:00		Tool Check	Tool Check
	21:15		Tool Check	Tool Check
	21:30		Tool Check	Tool Check
	21:45		Tool Check	Tool Check
	22:00		Tool Check	Tool Check
	22:15		Tool Check	Tool Check
	22:30		Tool Check	Tool Check
	22:45		Tool Check	Tool Check
	23:00		Tool Check	Tool Check
	23:15		Tool Check	Tool Check
	23:30		Tool Check	Tool Check
	23:45		Tool Check	Tool Check
15-Jun-2009	00:00		Tool Check	Tool Check
	00:15		Tool Check	Tool Check
	00:30		Tool Check	Tool Check
	00:45		Tool Check	Tool Check
	01:00		Tool Check	Tool Check
	01:15		Tool Check	Tool Check
	01:30		Tool Check	Tool Check
	01:45		Tool Check	Tool Check
	02:00		Tool Check	Tool Check
	02:15		Tool Check	Tool Check
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	02:45		Tool Check	Tool Check
	03:00		Tool Check	Tool Check
	03:15		Tool Check	Tool Check
	03:30		Tool Check	Tool Check
	03:45		Tool Check	Tool Check
	04:00		Tool Check	Tool Check
	04:15		Tool Check	Tool Check
	04:30		Tool Check	Tool Check
	04:45		Tool Check	Tool Check
	05:00		Tool Check	Tool Check
	05:15		Tool Check	Tool Check
	05:30		Tool Check	Tool Check
	05:45		Tool Check	Tool Check
	06:00		Tool Check	Tool Check
	06:15		Tool Check	Tool Check
	06:30		Tool Check	Tool Check
	06:45		Tool Check	Tool Check
	07:00		Tool Check	Tool Check
	07:15		Tool Check	Tool Check
	07:30		Tool Check	Tool Check
	07:45		Tool Check	Tool Check
	08:00		Tool

COMPOSITE COAL LOG

COMPANY: COMPLIANCE COAL CORP
WELL: RAV06-011C
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

Elevation: 0.00 m Below Sea Level
Elevation Data Reading: metres
Depth Reference: metres
Elevation Should Load: metres

Total Reading: 463.01 metres
Depth Order: 463.14 metres
Depth Logged: 463.14 metres

Weatherford

COMPOSITE COAL LOG

BOREHOLE RECORD

Bit Size (millimetres): 152
Depth From (metres): 0.00
Depth To (metres): 463.14
Last Solved: 08-JUN-2006 9:33 (GMT)

CASING RECORD

Type	Size (millimetres)	Weight (kg/m)	Drive Depth (metres)	Weight (kg/m)

REMARKS

All interpretations are opinions based on inferences from electrical or other measurements and are service 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 set forth in our current price schedule.

COMPOSITE LOG 1:240

Source Drawer Name: Merged File
Filename: C:\logs\Canada\BRIAN\06-011C\RAV06-011C WRA.log
Systems Versions: Merged with 9.08-DOE Merged on: 8-JUN-2006 12:00

Bit Size millimetres 152 | 152 | 152

FE Resistivity Shallow ohm metres 0.2000 | 10 | 100 | 1000

FE Resistivity Deep ohm metres 0.2000 | 10 | 100 | 1000

Gamma Ray from DDS API 0 | 150

Caliper from DDS millimetres 152 | 190

Density Short Spaced gram/cm 1.95 | 2.95

Density Corrected gram/cm 1.95 | 2.95

Compensated Density gram/cm 1.95 | 2.95

Sandstone Neutron Por percent 0.1000 | 0.0100

BE on Compact. Sonic W/Sh% microsecondsfoot 140 | 90

Depth Scale Metres

Depth Scale Metres

Printed on 08-JUN-2006 9:33
Merged on 7-JUN-2006 12:00

Source Drawer Name: Merged File
Filename: C:\logs\Canada\BRIAN\06-011C\RAV06-011C WRA.log
Systems Versions: Merged with 9.08-DOE Merged on: 8-JUN-2006 12:00

Bit Size millimetres 152 | 152 | 152

FE Resistivity Shallow ohm metres 0.2000 | 10 | 100 | 1000

FE Resistivity Deep ohm metres 0.2000 | 10 | 100 | 1000

Gamma Ray from DDS API 0 | 150

Caliper from DDS millimetres 152 | 190

Density Short Spaced gram/cm 1.95 | 2.95

Density Corrected gram/cm 1.95 | 2.95

Compensated Density gram/cm 1.95 | 2.95

Sandstone Neutron Por percent 0.1000 | 0.0100

BE on Compact. Sonic W/Sh% microsecondsfoot 140 | 90

Depth Scale Metres

Depth Scale Metres

Printed on 08-JUN-2006 9:33
Merged on 7-JUN-2006 12:00

COMPOSITE COAL LOG

COMPANY: COMPLIANCE COAL CORP
WELL: RAV06-011C
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

Weatherford

COMPOSITE COAL LOG

Company	Petroleum Development Oman LLC	Date	2-Jan-2011
Well	Nimr-1	Time	00:00
Field	Nimr	Depth	0 m
Contractor	Petrotech	Operator	Petroleum Development Oman LLC
Rig	Rig 1	Operation	Drilling

Mud Type	Density (kg/m³)	Viscosity (sec/qt)	Pv (cP)	Yp (Pa)	Gel (Pa)	Filtrate (ml/30min)	Cake (mm)	Chlorides (mg/l)	Sand (%)	Solids (%)	Oil (%)	Water (%)
Spud Mud	1.03	0	0	0	0	0	0	0	0	0	0	0

Bit	Size (mm)	Manufacturer	Type	Serial No.	Jets (mm)	In (m)	Out (m)	Footage (m)	Hours (hr)	ROP (m/hr)	Dull	Loss	Grade
1	660.4	Smith	MDSH	PX1	20 20 20	0	0	0	0	0			

Pump	Type	Liner (mm)	Stroke (mm)	Eff (%)	Pressure (kPa)	Rate (l/min)
1	Emsco D-1000	152.4	304.8	0	0	0
2	Emsco D-1000	152.4	304.8	0	0	0

Drill Collar	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Heavy Wt.	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Drill Pipe	OD (mm)	ID (mm)	Length (m)
1	127.0	108.6	0
2	127.0	108.6	0
3	127.0	108.6	0
4	127.0	108.6	0
5	127.0	108.6	0
6	127.0	108.6	0
7	127.0	108.6	0
8	127.0	108.6	0

Casing	OD (mm)	ID (mm)	Length (m)
1	508.0	476.0	0
2	508.0	476.0	0
3	508.0	476.0	0
4	508.0	476.0	0
5	508.0	476.0	0
6	508.0	476.0	0
7	508.0	476.0	0
8	508.0	476.0	0

Hole	OD (mm)	Length (m)
1	660.4	0
2	660.4	0
3	660.4	0
4	660.4	0
5	660.4	0
6	660.4	0
7	660.4	0
8	660.4	0

Bottom Hole Assembly	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Nimr-1 Daily Report

Company	Petroleum Development Oman LLC	Date	3-Jan-2011
Well	Nimr-1	Time	00:00
Field	Nimr	Depth	0 m
Contractor	Petrotech	Operator	Petroleum Development Oman LLC
Rig	Rig 1	Operation	Drilling

Mud Type	Density (kg/m³)	Viscosity (sec/qt)	Pv (cP)	Yp (Pa)	Gel (Pa)	Filtrate (ml/30min)	Cake (mm)	Chlorides (mg/l)	Sand (%)	Solids (%)	Oil (%)	Water (%)
Spud Mud	1.03	0	0	0	0	0	0	0	0	0	0	0

Bit	Size (mm)	Manufacturer	Type	Serial No.	Jets (mm)	In (m)	Out (m)	Footage (m)	Hours (hr)	ROP (m/hr)	Dull	Loss	Grade
1	660.4	Smith	MDSH	PX1	20 20 20	0	0	0	0	0			

Pump	Type	Liner (mm)	Stroke (mm)	Eff (%)	Pressure (kPa)	Rate (l/min)
1	Emsco D-1000	152.4	304.8	0	0	0
2	Emsco D-1000	152.4	304.8	0	0	0

Drill Collar	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Heavy Wt.	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Drill Pipe	OD (mm)	ID (mm)	Length (m)
1	127.0	108.6	0
2	127.0	108.6	0
3	127.0	108.6	0
4	127.0	108.6	0
5	127.0	108.6	0
6	127.0	108.6	0
7	127.0	108.6	0
8	127.0	108.6	0

Casing	OD (mm)	ID (mm)	Length (m)
1	508.0	476.0	0
2	508.0	476.0	0
3	508.0	476.0	0
4	508.0	476.0	0
5	508.0	476.0	0
6	508.0	476.0	0
7	508.0	476.0	0
8	508.0	476.0	0

Hole	OD (mm)	Length (m)
1	660.4	0
2	660.4	0
3	660.4	0
4	660.4	0
5	660.4	0
6	660.4	0
7	660.4	0
8	660.4	0

Bottom Hole Assembly	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Nimr-1 Daily Report

Company	Petroleum Development Oman LLC	Date	4-Jan-2011
Well	Nimr-1	Time	00:00
Field	Nimr	Depth	0 m
Contractor	Petrotech	Operator	Petroleum Development Oman LLC
Rig	Rig 1	Operation	Drilling

Mud Type	Density (kg/m³)	Viscosity (sec/qt)	Pv (cP)	Yp (Pa)	Gel (Pa)	Filtrate (ml/30min)	Cake (mm)	Chlorides (mg/l)	Sand (%)	Solids (%)	Oil (%)	Water (%)
Spud Mud	1.03	0	0	0	0	0	0	0	0	0	0	0

Bit	Size (mm)	Manufacturer	Type	Serial No.	Jets (mm)	In (m)	Out (m)	Footage (m)	Hours (hr)	ROP (m/hr)	Dull	Loss	Grade
1	660.4	Smith	MDSH	PX1	20 20 20	0	0	0	0	0			

Pump	Type	Liner (mm)	Stroke (mm)	Eff (%)	Pressure (kPa)	Rate (l/min)
1	Emsco D-1000	152.4	304.8	0	0	0
2	Emsco D-1000	152.4	304.8	0	0	0

Drill Collar	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Heavy Wt.	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Drill Pipe	OD (mm)	ID (mm)	Length (m)
1	127.0	108.6	0
2	127.0	108.6	0
3	127.0	108.6	0
4	127.0	108.6	0
5	127.0	108.6	0
6	127.0	108.6	0
7	127.0	108.6	0
8	127.0	108.6	0

Casing	OD (mm)	ID (mm)	Length (m)
1	508.0	476.0	0
2	508.0	476.0	0
3	508.0	476.0	0
4	508.0	476.0	0
5	508.0	476.0	0
6	508.0	476.0	0
7	508.0	476.0	0
8	508.0	476.0	0

Hole	OD (mm)	Length (m)
1	660.4	0
2	660.4	0
3	660.4	0
4	660.4	0
5	660.4	0
6	660.4	0
7	660.4	0
8	660.4	0

Bottom Hole Assembly	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Nimr-1 Daily Report

Company	Petroleum Development Oman LLC	Date	5-Jan-2011
Well	Nimr-1	Time	00:00
Field	Nimr	Depth	0 m
Contractor	Petrotech	Operator	Petroleum Development Oman LLC
Rig	Rig 1	Operation	Drilling

Mud Type	Density (kg/m³)	Viscosity (sec/qt)	Pv (cP)	Yp (Pa)	Gel (Pa)	Filtrate (ml/30min)	Cake (mm)	Chlorides (mg/l)	Sand (%)	Solids (%)	Oil (%)	Water (%)
Spud Mud	1.03	0	0	0	0	0	0	0	0	0	0	0

Bit	Size (mm)	Manufacturer	Type	Serial No.	Jets (mm)	In (m)	Out (m)	Footage (m)	Hours (hr)	ROP (m/hr)	Dull	Loss	Grade
1	660.4	Smith	MDSH	PX1	20 20 20	0	0	0	0	0			

Pump	Type	Liner (mm)	Stroke (mm)	Eff (%)	Pressure (kPa)	Rate (l/min)
1	Emsco D-1000	152.4	304.8	0	0	0
2	Emsco D-1000	152.4	304.8	0	0	0

Drill Collar	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Heavy Wt.	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Drill Pipe	OD (mm)	ID (mm)	Length (m)
1	127.0	108.6	0
2	127.0	108.6	0
3	127.0	108.6	0
4	127.0	108.6	0
5	127.0	108.6	0
6	127.0	108.6	0
7	127.0	108.6	0
8	127.0	108.6	0

Casing	OD (mm)	ID (mm)	Length (m)
1	508.0	476.0	0
2	508.0	476.0	0
3	508.0	476.0	0
4	508.0	476.0	0
5	508.0	476.0	0
6	508.0	476.0	0
7	508.0	476.0	0
8	508.0	476.0	0

Hole	OD (mm)	Length (m)
1	660.4	0
2	660.4	0
3	660.4	0
4	660.4	0
5	660.4	0
6	660.4	0
7	660.4	0
8	660.4	0

Bottom Hole Assembly	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Nimr-1 Daily Report

Company	Petroleum Development Oman LLC	Date	6-Jan-2011
Well	Nimr-1	Time	00:00
Field	Nimr	Depth	0 m
Contractor	Petrotech	Operator	Petroleum Development Oman LLC
Rig	Rig 1	Operation	Drilling

Mud Type	Density (kg/m³)	Viscosity (sec/qt)	Pv (cP)	Yp (Pa)	Gel (Pa)	Filtrate (ml/30min)	Cake (mm)	Chlorides (mg/l)	Sand (%)	Solids (%)	Oil (%)	Water (%)
Spud Mud	1.03	0	0	0	0	0	0	0	0	0	0	0

Bit	Size (mm)	Manufacturer	Type	Serial No.	Jets (mm)	In (m)	Out (m)	Footage (m)	Hours (hr)	ROP (m/hr)	Dull	Loss	Grade
1	660.4	Smith	MDSH	PX1	20 20 20	0	0	0	0	0			

Pump	Type	Liner (mm)	Stroke (mm)	Eff (%)	Pressure (kPa)	Rate (l/min)
1	Emsco D-1000	152.4	304.8	0	0	0
2	Emsco D-1000	152.4	304.8	0	0	0

Drill Collar	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Heavy Wt.	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Drill Pipe	OD (mm)	ID (mm)	Length (m)
1	127.0	108.6	0
2	127.0	108.6	0
3	127.0	108.6	0
4	127.0	108.6	0
5	127.0	108.6	0
6	127.0	108.6	0
7	127.0	108.6	0
8	127.0	108.6	0

Casing	OD (mm)	ID (mm)	Length (m)
1	508.0	476.0	0
2	508.0	476.0	0
3	508.0	476.0	0
4	508.0	476.0	0
5	508.0	476.0	0
6	508.0	476.0	0
7	508.0	476.0	0
8	508.0	476.0	0

Hole	OD (mm)	Length (m)
1	660.4	0
2	660.4	0
3	660.4	0
4	660.4	0
5	660.4	0
6	660.4	0
7	660.4	0
8	660.4	0

Bottom Hole Assembly	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Nimr-1 Daily Report

Company	Petroleum Development Oman LLC	Date	7-Jan-2011
Well	Nimr-1	Time	00:00
Field	Nimr	Depth	0 m
Contractor	Petrotech	Operator	Petroleum Development Oman LLC
Rig	Rig 1	Operation	Drilling

Mud Type	Density (kg/m³)	Viscosity (sec/qt)	Pv (cP)	Yp (Pa)	Gel (Pa)	Filtrate (ml/30min)	Cake (mm)	Chlorides (mg/l)	Sand (%)	Solids (%)	Oil (%)	Water (%)
Spud Mud	1.03	0	0	0	0	0	0	0	0	0	0	0

Bit	Size (mm)	Manufacturer	Type	Serial No.	Jets (mm)	In (m)	Out (m)	Footage (m)	Hours (hr)	ROP (m/hr)	Dull	Loss	Grade
1	660.4	Smith	MDSH	PX1	20 20 20	0	0	0	0	0			

Pump	Type	Liner (mm)	Stroke (mm)	Eff (%)	Pressure (kPa)	Rate (l/min)
1	Emsco D-1000	152.4	304.8	0	0	0
2	Emsco D-1000	152.4	304.8	0	0	0

Drill Collar	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Heavy Wt.	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Drill Pipe	OD (mm)	ID (mm)	Length (m)
1	127.0	108.6	0
2	127.0	108.6	0
3	127.0	108.6	0
4	127.0	108.6	0
5	127.0	108.6	0
6	127.0	108.6	0
7	127.0	108.6	0
8	127.0	108.6	0

Casing	OD (mm)	ID (mm)	Length (m)
1	508.0	476.0	0
2	508.0	476.0	0
3	508.0	476.0	0
4	508.0	476.0	0
5	508.0	476.0	0
6	508.0	476.0	0
7	508.0	476.0	0
8	508.0	476.0	0

Hole	OD (mm)	Length (m)
1	660.4	0
2	660.4	0
3	660.4	0
4	660.4	0
5	660.4	0
6	660.4	0
7	660.4	0
8	660.4	0

Bottom Hole Assembly	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Nimr-1 Daily Report

Company	Petroleum Development Oman LLC	Date	8-Jan-2011
Well	Nimr-1	Time	00:00
Field	Nimr	Depth	0 m
Contractor	Petrotech	Operator	Petroleum Development Oman LLC
Rig	Rig 1	Operation	Drilling

Mud Type	Density (kg/m³)	Viscosity (sec/qt)	Pv (cP)	Yp (Pa)	Gel (Pa)	Filtrate (ml/30min)	Cake (mm)	Chlorides (mg/l)	Sand (%)	Solids (%)	Oil (%)	Water (%)
Spud Mud	1.03	0	0	0	0	0	0	0	0	0	0	0

Bit	Size (mm)	Manufacturer	Type	Serial No.	Jets (mm)	In (m)	Out (m)	Footage (m)	Hours (hr)	ROP (m/hr)	Dull	Loss	Grade
1	660.4	Smith	MDSH	PX1	20 20 20	0	0	0	0	0			

Pump	Type	Liner (mm)	Stroke (mm)	Eff (%)	Pressure (kPa)	Rate (l/min)
1	Emsco D-1000	152.4	304.8	0	0	0
2	Emsco D-1000	152.4	304.8	0	0	0

Drill Collar	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Heavy Wt.	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Drill Pipe	OD (mm)	ID (mm)	Length (m)
1	127.0	108.6	0
2	127.0	108.6	0
3	127.0	108.6	0
4	127.0	108.6	0
5	127.0	108.6	0
6	127.0	108.6	0
7	127.0	108.6	0
8	127.0	108.6	0

Casing	OD (mm)	ID (mm)	Length (m)
1	508.0	476.0	0
2	508.0	476.0	0
3	508.0	476.0	0
4	508.0	476.0	0
5	508.0	476.0	0
6	508.0	476.0	0
7	508.0	476.0	0
8	508.0	476.0	0

Hole	OD (mm)	Length (m)
1	660.4	0
2	660.4	0
3	660.4	0
4	660.4	0
5	660.4	0
6	660.4	0
7	660.4	0
8	660.4	0

Bottom Hole Assembly	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Nimr-1 Daily Report

Company	Petroleum Development Oman LLC	Date	9-Jan-2011
Well	Nimr-1	Time	00:00
Field	Nimr	Depth	0 m
Contractor	Petrotech	Operator	Petroleum Development Oman LLC
Rig	Rig 1	Operation	Drilling

Mud Type	Density (kg/m³)	Viscosity (sec/qt)	Pv (cP)	Yp (Pa)	Gel (Pa)	Filtrate (ml/30min)	Cake (mm)	Chlorides (mg/l)	Sand (%)	Solids (%)	Oil (%)	Water (%)
Spud Mud	1.03	0	0	0	0	0	0	0	0	0	0	0

Bit	Size (mm)	Manufacturer	Type	Serial No.	Jets (mm)	In (m)	Out (m)	Footage (m)	Hours (hr)	ROP (m/hr)	Dull	Loss	Grade
1	660.4	Smith	MDSH	PX1	20 20 20	0	0	0	0	0			

Pump	Type	Liner (mm)	Stroke (mm)	Eff (%)	Pressure (kPa)	Rate (l/min)
1	Emsco D-1000	152.4	304.8	0	0	0
2	Emsco D-1000	152.4	304.8	0	0	0

Drill Collar	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Heavy Wt.	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Drill Pipe	OD (mm)	ID (mm)	Length (m)
1	127.0	108.6	0
2	127.0	108.6	0
3	127.0	108.6	0
4	127.0	108.6	0
5	127.0	108.6	0
6	127.0	108.6	0
7	127.0	108.6	0
8	127.0	108.6	0

Casing	OD (mm)	ID (mm)	Length (m)
1	508.0	476.0	0
2	508.0	476.0	0
3	508.0	476.0	0
4	508.0	476.0	0
5	508.0	476.0	0
6	508.0	476.0	0
7	508.0	476.0	0
8	508.0	476.0	0

Hole	OD (mm)	Length (m)
1	660.4	0
2	660.4	0
3	660.4	0
4	660.4	0
5	660.4	0
6	660.4	0
7	660.4	0
8	660.4	0

Bottom Hole Assembly	OD (mm)	ID (mm)	Length (m)
1	203.2	76.2	0
2	203.2	76.2	0
3	203.2	76.2	0
4	203.2	76.2	0
5	203.2	76.2	0
6	203.2	76.2	0
7	203.2	76.2	0
8	203.2	76.2	0

Nimr-1 Daily Report

Company	Petroleum Development Oman LLC	Date	10-Jan-2011
Well	Nimr-1	Time	00:00
Field	Nimr	Depth	0 m
Contractor	Petrotech	Operator	Petroleum Development Oman LLC
Rig	Rig 1	Operation	Drilling

Mud Type	Density (kg/m³)	Viscosity (sec/qt)	Pv (cP)	Yp (Pa)	Gel (Pa)	Filtrate (ml/30min)	Cake (mm)	Chlorides (mg/l)	Sand (%)	Solids (%)	Oil (%)	Water (%)
Spud Mud	1.03	0	0	0	0	0	0	0	0	0	0	0

| Bit | Size (mm) | Manufacturer | Type | Serial No. | Jets (mm) | In (m) | Out (m) | Foot

Company	COMPLIANCE COAL CORP
Well	RAV06-011C
Field	UNDEFINED
Province	BRITISH COLUMBIA
Country	CANADA
Date	20-Jul-2006
Time	15:31
Elevation Grd Floor	metres
Elevation Kelly Bushing	metres
Depth Datum	metres
Log Measured From	KB
Permanent Datum	GL
Elevation Perm Datum	0.00 metres
Log Measured From	KB 0.00 metres
Depth Datum	KB
Run Number	1
Depth Driller	1000.00
Depth Logger	1000.00
Bottom Log Interval	1000.00
Top Log Interval	0.00
Casing Driller	0.00
Casing Logger	0.00
Bit Size	0.00
Type Fluid in Hole	WATER
Viscosity	0.00
Density	0.00
Max Rec Temp	0.00
Estimated Circ Time	0.00
Max Rec Temp	0.00
Equipment	0.00
Location	0.00
Recorded By	0.00
Witnessed By	0.00

MINPLOT

COMPLIANCE COAL CORP
RAV06-011C
UNDEFINED
BRITISH COLUMBIA
CANADA

BOREHOLE RECORD

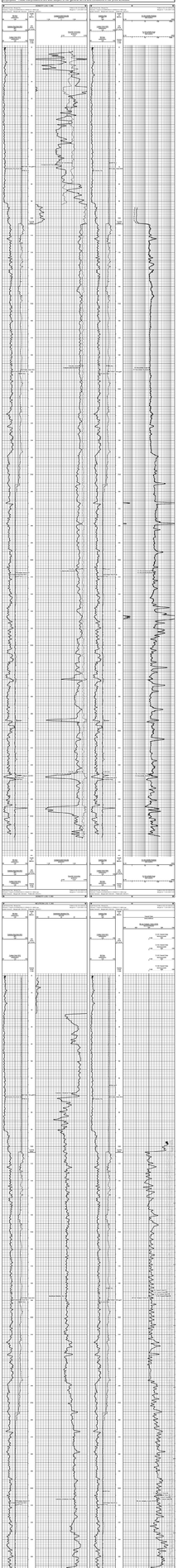
Bit Size (millimetres)	Depth From (metres)	Depth To (metres)	Last Edited: 06-JUN-2006 15:33

CASING RECORD

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

REMARKS

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.


DENSITY (G/C3)
NEUTRON POROSITY (PERCENT)
CALIPER (MILLIMETRES)
GAMMA RAY (API UNITS)
DELTA-T (US/M)
RESISTIVITY (OHMM)
SPONTANEOUS POTENTIAL (MILLIVOLTS)
Depth Scale 1:200
Date: 20-Jul-2006 15:31
Run 1 Depth Driller 1000.00
Depth Logger 1000.00
Bottom Log Interval 1000.00
Top Log Interval 0.00
Casing Driller 0.00
Casing Logger 0.00
Bit Size 0.00
Type Fluid in Hole WATER
Viscosity 0.00
Density 0.00
Max Rec Temp 0.00
Estimated Circ Time 0.00
Max Rec Temp 0.00
Equipment 0.00
Location 0.00
Recorded By 0.00
Witnessed By 0.00
Permanent Datum GL
Elevation Perm Datum 0.00 metres
Log Measured From KB 0.00 metres
Depth Datum KB
Run Number 1

Date	Time	Depth	Comment
2011-11-11	10:00	0	Start Logging
2011-11-11	10:00	0	Start Logging
2011-11-11	10:00	0	Start Logging

DUAL FOCUSSED ELECTRIC GAMMA RAY

COMPLIANCE COAL CORP
WELL 16-11-065-22-W6M
FIELD UNDEFINED
PROVINCE/COUNTRY BRITISH COLUMBIA, CANADA

Weatherford

BOREHOLE RECORD

Bit No	Type	Size	Last Casing: 95.25/8.835 (in)
1	Tricone	311.0	Casing Shoe: 1.0
1A-HR		311.0	1.0
1A-HR		311.0	1.0

CASING RECORD

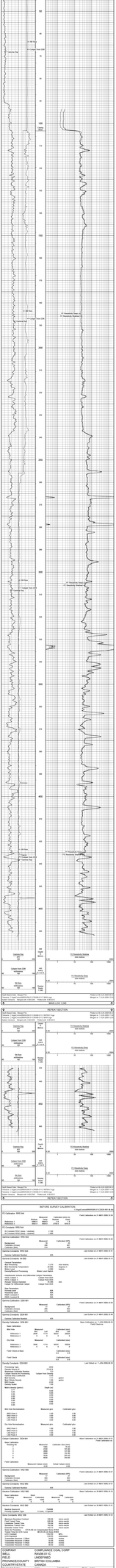
Size	Weight	Grade	Top Depth	Bottom Depth
95.25/8.835			0.0	1.0

REMARKS

Log Depths are measured depths referenced to Kelly Bushing (KB) at 1.0 m above ground level (AGL) and are corrected to Ground Level (GL) using a Kelly Bushing Correction of 1.0 m. Log Depths are measured along the borehole and may not be the true vertical depth. Formation tops, casing shoes, and perforations are shown on the log plots as reference depths.

SERVICE LOG LINE

Service Company: Weatherford Wireline Services
Service Date: 11-Apr-2006 00:00 to 11-Apr-2006 00:00
Service Unit: Weatherford Wireline Services
Logging Engineer: Gordon Ruff
Recorded by: Gordon Ruff
Witnessed by: Gordon Ruff


Gamma Ray
0.0
Caliper from 0.0 to 1.0
Bit Size
311.0
Casing Shoe
1.0
Casing Shoe

RICH COMPENSATED SONIC

WELL	COPPERHEAD COAL CORP.
FIELD	RIVER 61-12
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Date	1-Jun-2006

Weatherford

RICH COMPENSATED SONIC

SUNDRY RECORD	
Rig Up	12:00 1-Jun-2006
Rig Down	15:00
Rig Up	15:00
Rig Down	18:00

LOGGING RECORD			
Tool	Depth Start	Time Start	Depth Stop
RICH COMPENSATED SONIC	1000.00	18:00	0.00

Comments

Data presented on this plot is based on information supplied by the client to Weatherford and is subject to our standard terms and conditions. Our liability for any loss, damage or injury, howsoever caused, arising from the use of our data, recommendations, interpretations or opinions (collectively "Interpretations") shall be limited to the amount of our charges for the Interpretations, provided that such Interpretations were prepared by us in accordance with good practice. Our offices and laboratories operate under a quality assurance program in conformance with ISO 9001:2000.

Weatherford International Canada Inc. Calgary, Alberta

MAIN LOG

Depth Scale Type: Measured Depth
Depth Scale: Logged Interval 0.00 to 1000.00 (1000.00 MD) (1000.00 TVD)
Header Scale: Logged Interval 0.00 to 1000.00 (1000.00 MD) (1000.00 TVD)

Report Date: 1-Jun-2006 Report Time: 18:00 Report Version: 1 Report Type: Final
Depth Scale: Logged Interval 0.00 to 1000.00 (1000.00 MD) (1000.00 TVD)
Header Scale: Logged Interval 0.00 to 1000.00 (1000.00 MD) (1000.00 TVD)

REPEAT SECTION

Report Date: 1-Jun-2006 Report Time: 18:00 Report Version: 1 Report Type: Final
Depth Scale: Logged Interval 0.00 to 1000.00 (1000.00 MD) (1000.00 TVD)
Header Scale: Logged Interval 0.00 to 1000.00 (1000.00 MD) (1000.00 TVD)

BEFORE SURVEY CALIBRATION

Tool Calibration: 1-Nov-2005

Tool Serial Number: 0000-0001

Tool Calibration: 1-Nov-2005

Tool Serial Number: 0000-0001

Calibration Type: Calibration Date: Calibration Source: Calibration Number:

Calibration Type	Calibration Date	Calibration Source	Calibration Number
Tool Calibration	1-Nov-2005	Weatherford	0000-0001

VERTICALITY ANALYSIS

COMPLIANCE COAL CORP
RAV06-011C
UNDEFINED
BRITISH COLUMBIA
CANADA

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV06-011C		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	Final Reading	463.12 metres
Elevation Drill Floor	metres	Depth Driller	463.14 metres
Elevation Ground Level	metres	Depth Logger	463.12 metres

Weatherford

VERTICALITY ANALYSIS

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy of interpretations. 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.

Verticality Analysis Interpretation Notes

01-JUN-2006 14:35

All plotted output is authenticated subject to obtain the best visual effect within the physical space available. The maximum scales being 1:5000(depth) and 1:4000(depth/time), and the minimum 1:1.

The analysis is derived by integrating 10cm sampled data down the borehole. The hitting supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 20, 50 or 100 (dependent 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. (ie the azimuth calculations are derived from three solid state magnetometers). So the analysis will generally begin at the end of the casing and at 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 a full description of the parameters displayed on the 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.
ABAN. 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\Cornwall\RAV06-011C\Copy of V04-DM.rtk.dm

Target Origin Depth 46.00 Date Processed: 01-JUN-2006
Final Depth: 46.10, 0.00 North, 0.00 East of depths in metres Date Logged: Jun 06 01:00(local)

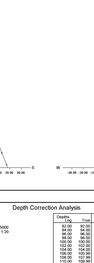
DEPTHS		BOREHOLE		ABAN. CO-ORDS		POLAR	
Log	True	Tilt	Azi.	North	East	Dog	Station
92.00	92.00	1.4	5.7	-0.00	-0.02	.001	0.02
94.00	94.00	1.6	320.4	0.04	-0.04	.028	0.05
96.00	96.00	1.7	321.1	0.07	-0.06	.039	0.09
98.00	98.00	1.7	.2	0.12	-0.05	.039	0.13
100.00	100.00	1.7	357.9	0.17	-0.05	.039	0.17
102.00	102.00	1.7	357.1	0.22	-0.05	.039	0.22
104.00	104.00	1.4	67.5	0.23	0.02	.4	0.23
106.00	106.00	1.4	67.1	0.23	0.09	.4	0.24
108.00	108.00	1.4	66.7	0.24	0.16	.4	0.29
110.00	109.99	1.5	75.0	0.26	0.16	.30	0.32
112.00	111.99	1.5	75.2	0.27	0.23	.30	0.36
114.00	113.99	1.5	75.4	0.28	0.30	.30	0.42
116.00	115.99	1.5	185.5	0.26	0.30	.47	0.42
118.00	117.99	1.5	185.7	0.23	0.29	.47	0.37
120.00	119.99	1.5	115.2	0.22	0.35	.54	0.39
122.00	121.99	1.0	92.2	0.24	0.43	.57	0.52
124.00	123.99	1.0	92.0	0.24	0.49	.57	0.54
126.00	125.99	1.0	91.8	0.24	0.54	.57	0.60
128.00	127.99	0.8	122.5	0.26	0.55	.63	0.62
130.00	129.99	0.8	122.3	0.27	0.56	.63	0.63
132.00	131.99	1.2	323.5	0.25	0.54	.63	0.67
134.00	133.99	1.1	130.1	0.23	0.66	.72	0.70
136.00	135.99	1.1	129.9	0.21	0.77	.72	0.79
138.00	137.99	1.0	107.2	0.20	0.87	.72	0.89
140.00	139.99	0.9	121.6	0.19	0.76	.79	0.78
142.00	141.99	1.0	121.4	0.18	0.65	.79	0.67
144.00	143.99	1.0	121.2	0.15	0.54	.80	0.55
146.00	145.99	1.0	134.6	0.12	0.45	.84	0.46
148.00	147.99	1.0	134.6	0.10	0.37	.84	0.38
150.00	149.99	1.0	134.6	0.07	0.29	.84	0.30
152.00	151.99	1.1	163.7	0.01	0.26	.89	0.26
154.00	153.99	1.1	163.5	-0.05	0.24	.89	0.25
156.00	155.99	1.1	163.3	-0.07	0.21	.94	0.22
160.00	159.98	1.4	153.1	-0.11	1.04	.96	1.04
162.00	161.98	1.6	153.0	-0.14	1.13	.97	1.14
164.00	163.98	1.6	152.8	-0.17	1.23	.97	1.24
166.00	165.98	1.6	154.3	-0.24	1.33	.102	1.13
168.00	167.98	1.7	154.1	-0.31	1.43	.102	1.22
170.00	169.98	1.7	153.9	-0.38	1.54	.102	1.41
172.00	171.98	1.4	167.4	-0.40	1.17	.109	1.23
174.00	173.98	1.4	167.2	-0.42	1.08	.109	1.14
176.00	175.98	1.4	167.1	-0.44	1.00	.109	1.05
178.00	177.98	1.7	172.6	-0.56	1.21	.115	1.33
180.00	179.98	1.7	172.4	-0.61	1.32	.115	1.44
182.00	181.97	1.7	172.2	-0.66	1.44	.115	1.61
184.00	183.97	1.7	175.3	-0.74	1.24	.121	1.45
186.00	185.97	1.7	175.1	-0.81	1.04	.121	1.32
188.00	187.97	1.7	174.9	-0.88	0.85	.121	1.19
190.00	189.97	1.7	172.6	-0.94	1.26	.126	1.57
192.00	191.97	1.7	172.4	-1.01	1.67	.126	1.97
194.00	193.97	2.1	169.4	-1.08	1.91	.132	2.21
196.00	195.97	2.1	169.2	-1.16	2.16	.132	2.49
198.00	197.96	2.0	187.1	-1.23	1.21	.134	1.77
200.00	199.96	2.0	187.0	-1.31	0.26	.134	1.04
202.00	201.96	2.4	186.8	-1.39	0.69	.140	1.39
204.00	203.96	2.2	186.5	-1.47	1.26	.139	1.93
206.00	205.96	2.2	186.3	-1.55	1.83	.139	2.51
208.00	207.96	2.4	186.1	-1.62	2.41	.140	3.09
210.00	209.95	2.4	186.1	-1.71	1.24	.144	2.11
212.00	211.95	2.4	186.0	-1.79	0.07	.144	1.13
214.00	213.95	2.5	185.8	-1.87	0.95	.150	1.55
216.00	215.95	2.6	202.9	-1.97	1.02	.146	2.32
218.00	217.95	2.6	202.8	-2.07	1.09	.146	2.39
220.00	219.95	2.4	202.6	-2.15	1.16	.146	2.46
222.00	221.94	2.4	196.6	-2.23	1.18	.152	2.53
224.00	223.94	2.5	196.4	-2.31	1.20	.152	2.60
226.00	225.94	2.5	196.2	-2.41	1.22	.152	2.68
228.00	227.94	2.9	198.4	-2.50	1.14	.155	2.75
230.00	229.94	2.9	198.2	-2.61	1.06	.155	2.83
232.00	231.94	2.9	198.0	-2.72	0.98	.155	2.91
234.00	233.93	3.3	205.2	-2.80	1.09	.158	3.00
236.00	235.93	3.3	205.0	-2.89	1.21	.158	3.12
238.00	237.93	3.3	204.8	-2.98	1.32	.158	3.16
240.00	239.93	2.6	200.6	-3.10	1.02	.162	3.26
242.00	241.93	2.6	200.4	-3.19	0.73	.162	3.35
244.00	243.93	2.6	200.2	-3.28	0.44	.162	3.43
246.00	245.93	3.5	214.4	-3.37	0.91	.165	3.49
248.00	247.91	3.5	214.4	-3.49	0.91	.165	3.60
250.00	249.91	3.5	214.4	-3.61	0.91	.165	3.72
252.00	251.91	3.5	214.3	-3.73	0.91	.165	3.84
254.00	253.90	2.6	211.1	-3.77	0.61	.168	3.86
256.00	255.90	2.6	210.9	-3.81	0.31	.168	3.88
258.00	257.90	2.6	210.7	-3.87	0.02	.168	3.89
260.00	259.89	2.6	213.7	-4.07	0.71	.172	4.13
262.00	261.89	3.0	213.5	-4.28	1.40	.172	4.41
264.00	263.89	3.0	213.3	-4.50	2.09	.172	4.71
266.00	265.89	3.0	218.5	-4.57	2.32	.172	4.81
268.00	267.89	3.0	218.3	-4.64	2.55	.172	4.91
270.00	269.88	3.0	218.1	-4.72	2.78	.172	5.02
272.00	271.87	3.3	207.2	-4.68	0.46	.174	4.70
274.00	273.87	3.3	207.0	-4.73	0.14	.174	4.75
276.00	275.87	3.3	206.8	-4.78	-0.18	.174	4.80
278.00	277.86	4.3	220.1	-4.89	0.32	.174	5.00
280.00	279.86	4.3	219.9	-5.01	0.82	.174	5.21
282.00	281.86	4.3	219.7	-5.13	1.32	.174	5.42
284.00	283.85	3.5	216.5	-5.22	0.77	.176	5.50
286.00	285.85	3.5	216.3	-5.31	0.22	.176	5.54
288.00	287.85	3.5	216.1	-5.39	-0.33	.176	5.58
290.00	289.84	3.1	219.8	-5.45	0.01	.180	5.65
292.00	291.84	3.1	219.6	-5.51	-0.31	.180	5.72
294.00	293.84	3.1	219.4	-5.57	-0.64	.180	5.80
296.00	295.83	3.5	222.5	-5.64	-0.97	.183	5.89
298.00	297.83	3.5	222.3	-5.72	-1.31	.183	5.99
300.00	299.83	3.5	222.1	-5.80	-1.64	.183	6.09
302.00	301.82	4.0	218.2	-5.89	-1.99	.187	6.21
304.00	303.82	4.0	218.0	-5.99	-2.34	.187	6.34
306.00	305.82	4.0	217.8	-6.09	-2.69	.187	6.47
308.00	307.81	4.0	216.6	-6.19	-3.04	.190	6.60
310.00	309.80	4.2	216.1	-6.30	-3.39	.193	6.73
312.00	311.80	4.2	215.9	-6.41	-3.74	.193	6.87
314.00	313.80	4.2	215.7	-6.52	-4.09	.193	7.01
316.00	315.79	4.0	215.8	-7.16	-3.79	.199	7.20
318.00	317.79	4.0	215.6	-7.79	-3.49	.199	7.39
320.00	319.79	4.0	215.4	-8.42	-3.19	.199	7.58
322.00	321.77	4.3	219.1	-7.52	-3.56	.197	7.59
324.00	323.77	4.3	218.9	-6.62	-3.93	.197	7.60
326.00	325.77	4.3	218.7	-5.72	-4.30	.197	7.61
328.00	327.76	3.8	217.2	-4.86	-1.19	.193	4.91
330.00	329.76	3.8	217.0	-4.00	-1.92	.193	4.97
332.00	331.76	3.8	216.8	-3.15	-2.65	.193	5.03
334.00	333.74	4.5	211.2	-2.27	-1.41	.190	8.39
336.00	335.74	4.5	211.0	-1.39	-0.17	.190	8.41
338.00	337.74	4.5	210.8	-0.51	1.07	.190	8.43
340.00	339.72	4.5	208.6	-0.32	1.93	.191	8.61
342.00	341.72	4.5	208.4	-0.14	2.79	.191	8.79
344.00	343.72	4.5	208.2	0.04	3.65	.191	8.97
346.00	345.71	4.9	208.1	0.22	4.51	.192	9.15
348.00	347.70	4.9	229.7	-0.22	1.95	.192	9.40
350.00	349.69	4.9	229.5	-0.66	0.39	.192	9.65
352.00	351.69	4.9	229.3	-1.10	-1.17	.192	9.90
354.00	353.68	4.5	228.8	-1.52	-2.70	.193	10.15
356.00	355.68	4.5	228.6	-1.94	-4.23	.193	10.40
358.00	357.67	4.5	228.4	-2.36	-5.76	.193	10.65
360.00	359.67	5.2	225.9	-2.79	-7.29	.194	10.91
362.00	361.66	5.2	225.7	-3.22	-8.82	.194	11.17
364.00	363.65	5.2	225.5	-3.65	-10.35	.194	11.43
366.00	365.63	4.6	224.1	-4.07	-11.87	.195	11.69
368.00	367.62	4.6	223.9	-4.49	-13.39	.195	11.95
370.00	369.61	4.6	223.7	-4.91	-14.91	.195	12.21
372.00	371.60	4.6	223.5	-5.33	-16.43	.195	12.47
374.00	373.59	5.0	223.4	-5.77	-17.96	.196	12.74
376.00	375.58	5.0	223.2	-6.21	-19.49	.196	13.01
378.00	377.58	5.0	223.0	-6.66	-21.02	.196	13.28
380.00	379.57	5.3	222.5	-7.11	-22.54	.197	13.56
382.00	381.56	5.3	222.3	-7.56	-24.07	.197	13.84
384.00	383.55	5.3	222.1	-8.01	-25.60	.197	14.12
386.00	385.54	5.3	221.9	-8.46	-27.13	.197	14.40
388.00	387.53	4.6	219.2	-8.90	-28.65	.197	14.68
390.00	389.52	4.6	219.0	-9.33	-30.17	.197	14.96
392.00	391.51	4.6	218.8	-9.77	-31.69	.197	15.24
394.00	393.50	4.7	217.2	-10.22	-33.21	.197	15.52
396.00	395.49	4.7	217.0	-10.67	-34.73	.197	15.80
398.00	397.48	4.7	216.8	-11.12	-36.25	.197	16.08
400.00	399.47	4.7	216.6	-11.57	-37.77	.197	16.36
402.00	401.46	4.7	216.4	-12.02	-39.29	.197	16.64
404.00	403.45	4.7	216.2	-12.47	-40.81	.197	16.92
406.00	405.45	6.0	225.1	-13.09	-4.64	.199	14.71
408.00	407.44	6.0	224.9	-13.71	-5.47	.199	14.94
410.00	409.43	6.0	224.7	-14.33	-6.30	.199	15.17
412.00	411.42	5.7	225.5	-14.91	-7.12	.200	15.39
414.00	413.41	5.7	225.3	-15.49	-7.94	.200	15.62
416.00	415.40	5.7	225.0	-16.06	-8.76	.200	15.85
418.00	417.39	5.7	224.8	-16.63	-9.58	.200	16.08
420.00	419.38	5.7	224.6	-17.21	-10.40	.200	16.30
422.00	421.37	5.7	224.4	-17.78	-11.22	.200	16.53
424.00	423.36	5.7	224.2	-18.35	-12.04	.200	16.76
426.00	425.37	5.7	224.0	-18.93	-12.86	.200	16.99
428.00	427.36	5.7	218.2	-19.34	-13.77	.201	18.39
430.00	429.35	5.7	218.0	-19.75	-14.68	.201	18.79
432.00	431.34	5.7	217.8	-20.16	-15.59	.201	19.17
434.00	433.34	5.7	217.6	-19.42	-6.11	.201	19.56
436.00	435.33	5.7	217.4	-18.68	-6.63	.201	19.94
438.00	437.32	5.7	217.2	-17.94	-7.15	.201	20.32
440.00	439.31	6.3	226.1	-18.32	-8.40	.202	17.13
442.00	441.30	6.3	225.9	-18.71	-9.65	.202	17.52
444.00	443.29	6.3	225.7	-19.09	-10.90	.202	17.91
446.00	445.28	6.3	225.5	-19.48	-12.15	.202	18.30
448.00	447.27	5.8	217.7	-19.95	-8.89	.202	18.30
450.00	449.26	5.8	217.5	-20.42	-5.63	.202	18.30
452.00	451.25	5.8	217.3	-20.89	-2.37	.202	18.30
454.00	453.24	4.6	214.8	-17.62	-7.20	.202	18.85
456.00	455.23	5.4	216.5	-17.87	-5.51	.203	18.38
458.00	457.22	5.4	216.3	-18.12	-3.82	.203	17.92
460.00	459.21	5.4	216.5	-17.87	-7.51	.203	19.38
462.00	461.21	5.4	216.3	-18.12	-5.82	.203	18.92

Cross Section

All Figures are Log Depths in metres

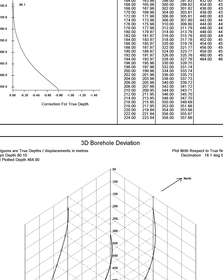
Target Origin Depth 46.00
Final Depth 46.10
Depth Markers annotated in multiples of 50
Log Depth Scale 1:4000
Last Depth Marker at 450

Plot With Respect to True North
Scale 1:500
Declination 18.1 deg East



Final Borehole Position
The last plotted depth is at
18.01 metres South
1.62 metres West
ie 18.58 metres from the origin
203 deg from True North

Vertical Sections



Depth Correction Analysis

Depth		Depth		Depth	
Log	True	Log	True	Log	True
92.00	92.00	236.00	235.94	380.00	358.85
94.00	94.00	238.00	237.94	382.00	360.83
96.00	96.00	240.00	239.93	384.00	362.83
98.00	98.00	242.00	241.93	386.00	364.82
100.00	100.00	244.00	243.93	388.00	366.81
102.00	102.00	246.00	245.93	390.00	368.81
104.00	104.00	248.00	247.93	392.00	370.80
106.00	106.00	250.00	249.93	394.00	372.79
108.00	108.00	252.00	251.93	396.00	374.79
110.00	109.99	254.00	253.93	398.00	376.78
112.00	111.99	256.00	255.93	400.00	378.77
114.00	113.99	258.00	257.93	402.00	380.77
116.00	115.99	260.00	259.93	404.00	382.76
118.00	117.99	262.00	261.93	406.00	384.75
120.00	119.99	264.00	263.93	408.00	386.75
122.00	121.99	266.00	265.93	410.00	388.74
124.00	123.99	268.00	267.93	412.00	390.73
126.00	125.99	270.00	269.93	414.00	392.73
128.00	127.99	272.00	271.93	416.00	394.72
130.00	129.99	274.00	273.93	418.00	396.71
132.00	131.99	276.00	275.93	420.00	398.71
134.00	133.99	278.00	277.93	422.00	400.70
136.00	135.99	280.00	279.93	424.00	402.69
138.00	137.99	282.00	281.93	426.00	404.69
140.00	139.99	284.00	283.93	428.00	406.68
142.00	141.99	286.00	285.93	430.00	408.67
144.00	143.99	288.00	287.93	432.00	410.67
146.00	145.99	290.00	289.93	434.00	412.66
148.00	147.99	292.00	291.93	436.00	414.65
150.00	149.99	294.00	293.93	438.00	416.65
152.00	151.99	296.00	295.93	440.00	418.64
154.00	153.99	298.00	297.93	442.00	420.63
156.00	155.99	300.00	299.93	444.00	422.63
158.00	157.99	302.00	301.93	446.00	424.62
160.00	159.98	304.00	303.93	448.00	426.61
162.00	161.98	306.00	305.93	450.00	428.61
164.00	163.98	308.00	307.93	452.00	430.60
166.00	165.98	310.00	309.93	454.00	432.59
168.00	167.98	312.00	311.93	456.00	434.59
170.00	169.98	314.00	313.93	458.00	436.58
172.00	171.98	316.00	315.93	460.00	438.57
174.00	173.98	318.00	317.93	462.00	440.57
176.00	175.98	320.00	319.93	464.00	442.56
178.00	177.98	322.00	321.93	466.00	444.55
180.00	179.98	324.00	323.93	468.00	446.55
182.00	181.97	326.00	325.93	470.00	448.54
184.00	183.97	328.00	327.93	472.00	450.53
186.00	185.97	330.00	329.93	474.00	452.53
188.00	187.97	332.00	331.93	476.00	454.52
190.00	189.97	334.00	333.93	478.00	456.51
192.00	191.97	336.00	335.93	480.00	458.51
194.00	193.97	338.00	337.93		
196.00	195.97	340.00	339.93		
198.00	197.96	342.00	341.93		
200.00	199.96	344.00	343.93		
202.00	201.96	346.00	345.93		
204.00	203.96	348.00	347.93		
206.00	205.96	350.00	349.93		
208.00	207.96	352.00	351.93		
210.00	209.95	354.00	353.93		
212.00	211.95	356.00	355.93		
214.00	213.95	358.00	357.93		

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth 92.10
Last Plotted Depth 464.00

Plot With Respect to True North
Declination 18.1 deg East

North
150
100
50
0
-50
-100
-150
-200
-250
-300
-350
-400
-450
-500
-550
-600
-650
-700
-750
-800
-850
-900
-950
-1000
-1050
-1100
-1150
-1200
-1250
-1300
-1350
-1400
-1450
-1500
-1550
-1600
-1650
-1700
-1750
-1800
-1850
-1900
-1950
-2000
-2050
-2100
-2150
-2200
-2250
-2300
-2350
-2400
-2450
-2500
-2550
-2600
-2650
-2700
-2750
-2800
-2850
-2900
-2950
-3000
-3050
-3100
-3150
-3200
-3250
-3300
-3350
-3400
-3450
-3500
-3550
-3600
-3650
-3700
-3750
-3800
-3850
-3900
-3950
-4000
-4050
-4100
-4150
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COMPOSITE COAL LOG

COMPANY	COMPLIANCE ENERGY CORP
WELL	RAV09-001
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
UWI	
LSD	SEC	TWP	RGE
Licence Number	
Other Services	

Run Number	1		
Date	03-JUN-2009		
Depth Driller	108.20	metres	
Depth Logger	110.20	metres	
First Reading	110.03	metres	
Last Reading	4.60	metres	
Casing Driller	4.60	metres	
Casing Logger	4.60	metres	
Bit Size		metres	
Hole Fluid Type			
Hole Fluid Loss/hr			
Sample Source			
Pri Fluid Loss/hr			
Pm @ Measured Temp			
Pmf @ Measured Temp			
Mfst @ Measured Temp			
Source Rmf / Rmc			
Rm @ BHT Circulation			
Time Circulation Ended			
Time Logger At Bottom			
Max Recorded Temp			
Equipment Name			
Equipment Base			
Recorded By	11HSS		
Witnessed By	O SHUPE		
	O CULLINGHAM		

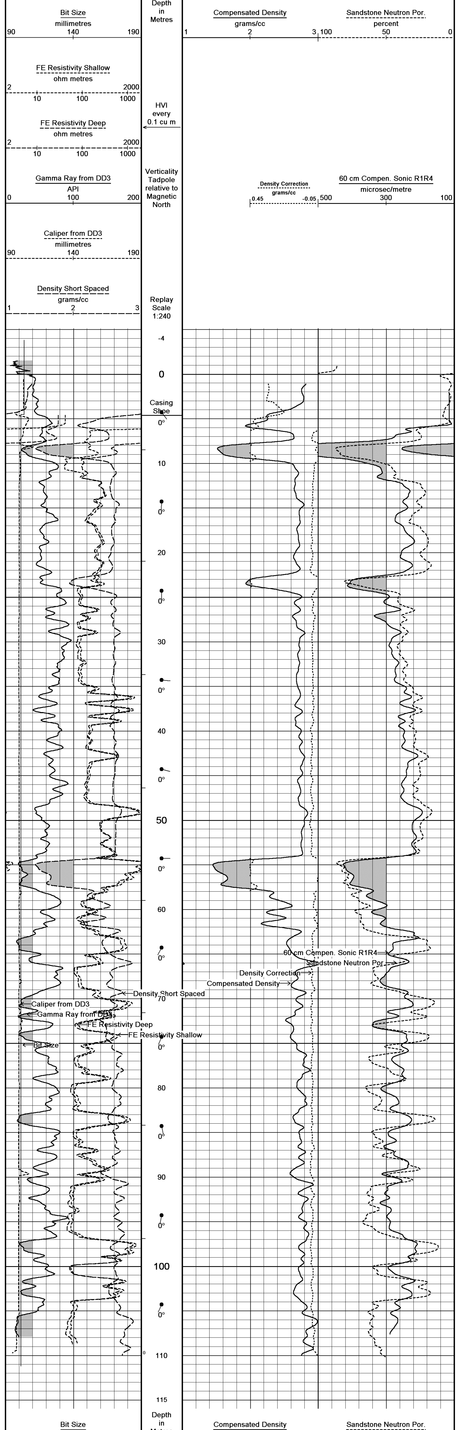
Elevations: KB, DF, GL — metres

Permanent Datum: G. Elevation NA metres

Log Measured From: GROUND LEVEL above Permanent Datum

Drilling Measured From: KB

WATER



Bit Size
millimetres
90 140 190
FE Resistivity Shallow
ohm metres
2 10 100 2000 1000
FE Resistivity Deep
ohm metres
2 10 100 2000 1000
Gamma Ray from DD3
API
0 100 200
Caliper from DD3
millimetres
90 140 190
Density Short Spaced
grams/cc
1 2 3
Depth in Metres
HVI every 0.1 cu m
Verticality Tadpole relative to Magnetic North
Replay Scale 1:240
Compensated Density
grams/cc
1 2 3
Sandstone Neutron Por.
percent
100 50 0
Density Correction
grams/cc
0.45 -0.05
60 cm Compen. Sonic R1R4
microsec/metre
500 300 100

BOREHOLE RECORD

Last Edited: 07-JUN-2009 16:23

Bit Size millimetres	Depth From metres	Depth To metres
103.900	0.00	4.60
101.600	4.60	110.20

CASING RECORD

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

REMARKS

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COMPOSITE LOG 1:240

Depth Based Data - Merged File — Plotted on 08-JUN-2009 08:50

Filename: C:\logs\Comos\09001001MAIN.mge — Merged on 07-JUN-2009 15:19

System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Depth Based Data - Merged File — Plotted on 08-JUN-2009 08:50

Filename: C:\logs\Comos\09001001MAIN.mge — Merged on 07-JUN-2009 15:19

System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE ENERGY CORP
WELL	RAV09-001
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres		First Reading	110.03	metres
Elevation Drill Floor	metres		Depth Driller	108.20	metres
Elevation Ground Level	metres		Depth Logger	110.20	metres

Weatherford

COMPOSITE COAL LOG

WELLSITE GEOLOGY
CONTINUOUS CORING
FINAL REPORT

COMPANY COMPLIANCE ENERGY CORP
WELL 1-29 CBM
FIELD UNDESIGNATED
PROVINCE/COUNTY BRITISH COLUMBIA
Weatherford Job Number CORING
Weatherford Rig No. 1 **Spud Date** 11-Oct-2006 **TD/Release** 13-Oct-2006
Weatherford Level Level 2 **Logging Date** 13-Oct-2006 **Logging Time** 0:00 - 24:00

CORE LITHOLOGY
GAMMA RAY, CALIPER
CORE DETAIL ZONES

Weatherford

SCHEDULE RECORD

Run No.	Date	Time	Depth
Run No. 1	11-Oct-2006	0:00	0.00 m
Run No. 2	12-Oct-2006	0:00	1,000.00 m
Run No. 3	13-Oct-2006	0:00	1,100.00 m

Logging Time: 11-Oct-2006 0:00 - 13-Oct-2006 24:00

CASING RECORD

Type	Size	Depth	Casing Point	Size Hole	Depth	Source
Surface	244.5 mm	0.00 m	0.00 m	311.1 mm	0.00 m	Driller

REMARKS

CORING OPERATIONS WERE CARRIED OUT BY WEATHERFORD LABORATORIES USING A CONTINUOUS CORING SYSTEM. THE CORE WAS RECOVERED IN 1 METER LENGTHS AND PROCESSED ON THE RIGSITE. THE CORE WAS DESCRIBED, PHOTOGRAPHED AND SAMPLED. THE CORE WAS THEN PACKED IN PLASTIC TUBES AND STORED IN CORE BOXES. THE CORE WAS THEN TRANSPORTED TO THE COMPANY'S CORE STORAGE FACILITY.

BERTA CORE

Scale: Vertical Depth - Metres/inch; Horizontal Depth - Metres/inch; Gamma - API/cm; Caliper - Inches/cm; Density - g/cm3; Neutron - Fraction

Depth Scale: Metres; Gamma Scale: API/cm; Caliper Scale: Inches/cm; Density Scale: g/cm3; Neutron Scale: Fraction

Prepared for: Compliance Energy Corp.
Prepared on: 13-Oct-2006 24:00
Prepared by: Weatherford Laboratories

REPORT SECTION

Scale: Vertical Depth - Metres/inch; Horizontal Depth - Metres/inch; Gamma - API/cm; Caliper - Inches/cm; Density - g/cm3; Neutron - Fraction

Depth Scale: Metres; Gamma Scale: API/cm; Caliper Scale: Inches/cm; Density Scale: g/cm3; Neutron Scale: Fraction

Prepared for: Compliance Energy Corp.
Prepared on: 13-Oct-2006 24:00
Prepared by: Weatherford Laboratories

CORE DETAIL 1-29

COMPANY	COMPLIANCE ENERGY CORP
WELL	RAV09-001
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

DIPMETER ANALYSIS

BOREHOLE RECORD

Last Edited: 07-JUN-2009 16:23

Bit Size millimetres	Depth From metres	Depth To metres
103.900	0.00	4.60
101.600	4.60	110.20

CASING RECORD

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

REMARKS

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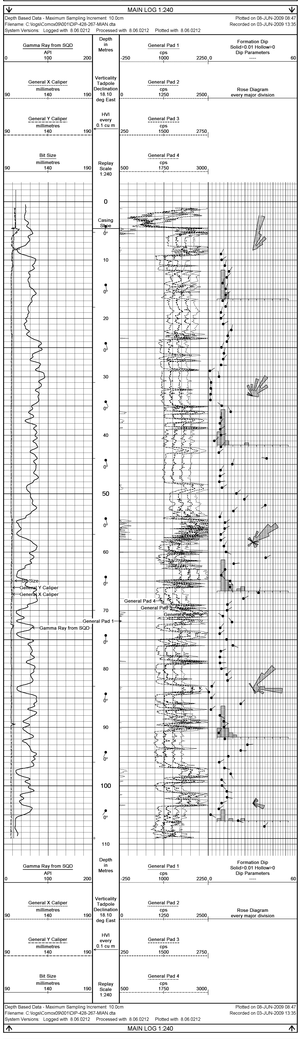
MAIN LOG 1:240

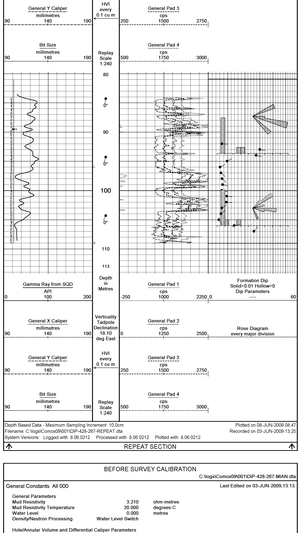
Depth Based Data - Maximum Sampling Increment: 10.0cm — Plotted on 08-JUN-2009 09:47
Filename: C:\logs\Consol\ND01\DIP-426-267-MAN.dlis — Recorded on 03-JUN-2009 13:23
System Versions: Logged with 8.06 0212 — Processed with 8.06 0212 — Plotted with 8.06 0212



Depth Based Data - Maximum Sampling Increment: 10.0cm — Plotted on 08-JUN-2009 09:47
Filename: C:\logs\Consol\ND01\DIP-426-267-MAN.dlis — Recorded on 03-JUN-2009 13:23
System Versions: Logged with 8.06 0212 — Processed with 8.06 0212 — Plotted with 8.06 0212

MAIN LOG 1:240

REPEAT SECTION



Depth Based Data - Maximum Sampling Increment: 10.0cm — Plotted on 08-JUN-2009 09:47
Filename: C:\logs\Consol\ND01\DIP-426-267-REPEAT.dlis — Recorded on 03-JUN-2009 13:23
System Versions: Logged with 8.06 0212 — Processed with 8.06 0212 — Plotted with 8.06 0212

REPEAT SECTION

BEFORE SURVEY CALIBRATION

C:\logs\Consol\ND01\DIP-426-267-MAN.dlis

Last Edited on 03-JUN-2009 13:13

General Constants AI 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	76.200	mm
Caliper for Differential Caliper	General X Caliper	
Raw Parameters		
Porosity used	N/A	
Resistivity used	N/A	
Density used	N/A	
BBA Constant M	N/A	

Borehole Geometry Constants V04 267

Last Edited on 03-JUN-2009 13:13

Configuration			
Magnetic Declination	18.10	degrees	East

Magnetometer Parameters V04 267

	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	216.000	214.000	166.000
Minimum	144.000	144.000	162.000

Level Cali Calibration V04 267

Field Calibration on 03-JUN-2009,13:13

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
119.00	119.00	-30.00	204.00	204.00	8.00
134.00	134.00	-15.00	212.00	211.00	10.00
145.00	145.00	-10.00	224.00	224.00	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
173.00	172.00	-2.00	0.00	0.00	0.00
181.00	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 SGD 426

Last Edited on 03-JUN-2009,13:13

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 SGD 428

Base Calibration on 07-JUN-2009,16:03

Base Calibration

Reading No	Measured X	Measured Y	Calibrator Size (mm)
1	154	150	76.20
2	278	286	101.60
3	417	429	127.00
4	566	576	152.40
5	707	718	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 SGD 428

Caliper Difference for BRKT	3.000	mm

Gamma Calibration SGD 428

Field Calibration on 07-JUN-2009,15:40

	Measured	Calibrated (API)
Background	9	20
Calibrator (Gross)	120	411
Calibrator (Net)	111	436

Gamma Constants SGD 428

Last Edited on 21-MAY-2009,11:06

Gamma Calibrator Number	425

Elevation Kelly Bushing	metres	First Reading	110.03 metres
Elevation Drill Floor	metres	Depth Driller	108.20 metres
Elevation Ground Level	metres	Depth Logger	110.20 metres

Weatherford

DIPMETER ANALYSIS

COMPANY	COMPLIANCE ENERGY CORP
WELL	RAV09-001
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
UWI	
LSD	SEC	TWP	RGE	Other Services

MINIPLOT

Licence Number	
Permanent Datum GL Elevation NA metres	
Log Measured From GROUND LEVEL above Permanent Datum	
Drilling Measured From GL	
Date	03-JUN-2009
Depth Number	
Depth Driller	108.20 metres
Depth Logger	110.20 metres
First Reading	110.03 metres
Last Reading	4.60 metres
Casing Driller	101.60 metres
Casing Logger	4.60 metres
Bit Size	103.90 metres
Casing Size	
Type Fluid in Hole	WATER
Density / Viscosity	
PH / Fluid Loss	
Source 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	C. SHUPE
Witnessed By	C. CULLINGHAM

Elevations: KB, GL — metres

BOREHOLE RECORD

Last Edited: 07-JUN-2009 16:23

Bit Size millimetres	Depth From metres	Depth To metres
103.900	0.00	4.60
101.600	4.60	110.20

CASING RECORD

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

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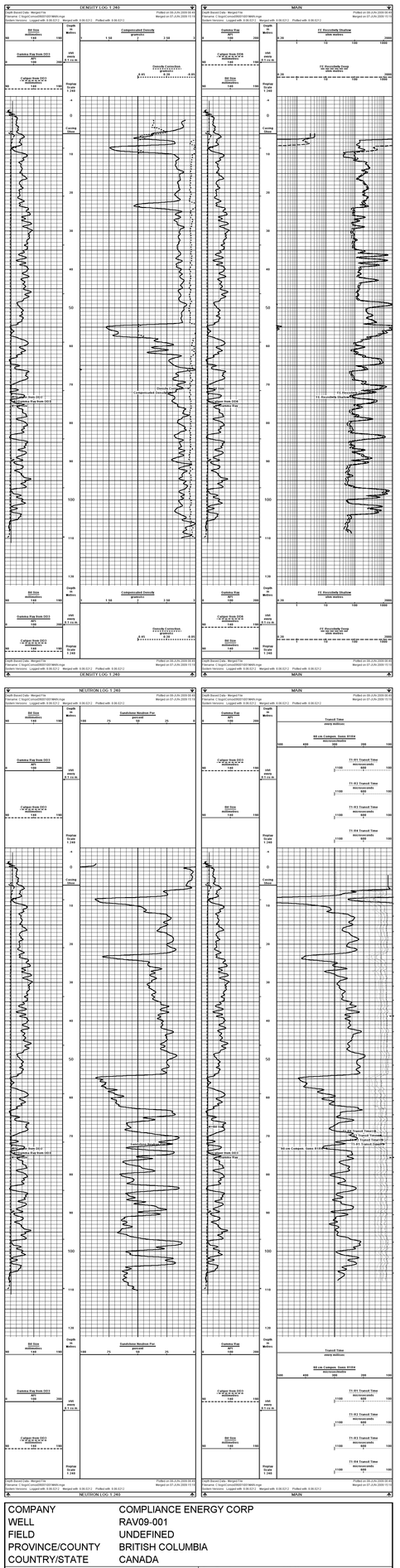


COMPANY	COMPLIANCE ENERGY CORP		
WELL	RAV09-001		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	110.03 metres
Elevation Drill Floor	metres	Depth Driller	108.20 metres
Elevation Ground Level	metres	Depth Logger	110.20 metres

Weatherford

MINIPLOT

WEATHERFORD

CALIPER LOG

Company:	COOPER ENERGY CORP	Date:	11-Oct-2005
Well:	BUCK 001	Time:	08:00
Field:	UNDEFINED	Log Number:	1
County:	MONTGOMERY COLUMBIA	Run Number:	1
State:	KANSAS	Depth Reference:	GL
Country:	USA	Elevation:	0.00

Log Interval		Casing Record	
First Reading:	0.00	Size:	0.00
Last Reading:	1000.00	Weight:	
Drill Measure From:	GL	Grade:	
Drill Measure To:		Depth:	

Bit Record		
Bit Size:	0.00	
Bit Type:		
Bit Number:		
Drill Time:		
Drill Fluid Type:		
Drill Fluid Density:		
Drill Fluid Viscosity:		
Drill Fluid Resistivity:		
Drill Fluid Temperature:		
Drill Fluid Loss:		
Drill Fluid Ph:		
Max Temp Recorded:		
Max Deviation:		
Max Deviation Depth:		

Equipment Record		
Logging Unit:	3	
Logging Truck:		
Recorded By:		
Witnessed By:		
Tool Type:	Caliper	
Tool Serial Number:		
Tool Length:		
Tool Diameter:		
Tool Weight:		
Tool Position:		
Tool Eccentered:		
Tool Centralized:		
Tool Standoff:		
Tool Sensor Offset:		
Tool Sensor Type:		
Tool Sensor Serial Number:		
Tool Sensor Length:		
Tool Sensor Diameter:		
Tool Sensor Weight:		
Tool Sensor Position:		
Tool Sensor Eccentered:		
Tool Sensor Centralized:		
Tool Sensor

COMPANY COMPLIANCE ENERGY CORP
WELL RAV99-001
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

DUAL FOCUSSED ELECTRIC
GAMMA RAY

Weatherford

COMPANY COMPLIANCE ENERGY CORP
WELL RAV99-001
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA
Elevation Kelly Bushing metres First Reading 112.05 metres
Elevation Drill Floor metres Depth Drilled 136.20 metres
Elevation Ground Level metres Depth Logger 112.20 metres

DUAL FOCUSSED ELECTRIC
GAMMA RAY

BOREHOLE RECORD			Last Edited: 07-JUN-2009 16:23
Bit Size	Depth From	Depth To	
203.200	0.00	136.20	
101.600	112.00	136.20	

CASING RECORD				
Type	Size	Depth From	Shoe Depth	Weight
Casing	101.600	0.00	112.00	0.000

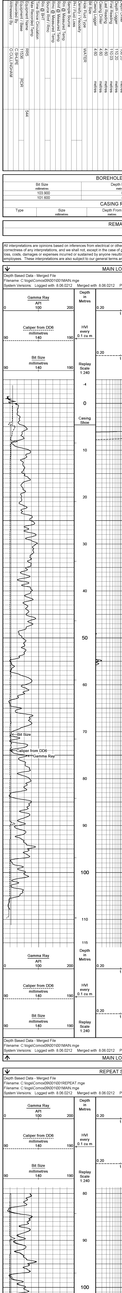
REMARKS

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of 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 as set forth in our price schedule.

MAIN LOG 1:240

Depth Based Data - Merged File
Filename: C:\logic\Canon2600\CEN-001MAIN.mgx
Generated on: Logged with: 8.08.0212 Merged with: 8.08.0212 Plotted with: 8.08.0212

Plotted on 05-JUN-2009 05:41
Merged on 07-JUN-2009 15:15



REPEAT SECTION

Depth Based Data - Merged File
Filename: C:\logic\Canon2600\0001REPEAT.mgx
Generated on: Logged with: 8.08.0212 Merged with: 8.08.0212 Plotted with: 8.08.0212

Plotted on 05-JUN-2009 05:41
Merged on 07-JUN-2009 15:15

BEFORE SURVEY CALIBRATION

C:\logic\Canon2600\FCEN-001-MAIN.dlis

Field Calibration on 25-MAY-2009,10:38

FE Calibration: RR5 S44

	Measured Shallow	Measured Deep	Calibrated (ohm-m) Shallow	Calibrated (ohm-m) Deep
Reference 1	4490.0	4498.0	2.9	1.9
Reference 2	3008.0	3008.0	2736.8	1918.0

FE Constants: RR5 S44

Mn Constant PEN1 (deep + shallow)	2.100
Mn Constant PEN2 (deep + shallow)	1.900

Last Edited on 21-MAY-2009,10:42

Gamma Calibration: RR5 S44

	Measured	Calibrated (API)
Background	39	37
Calibrator (Gross)	266	461
Calibrator (Net)	274	436

Gamma Calibration Number: 425

Resistivity Tool Constants: RR5 S44

Sonde Model	FE Mode
Sonde Serial Number	5993 00

Gamma Calibration: NN2 S60

	Measured	Calibrated (API)
Background	34	37
Calibrator (Gross)	264	461
Calibrator (Net)	277	436

Gamma Calibration Number: 425

Neutron Calibration: NN2 S60

	Short		Long	
Reading	Measured	Calibrated (pu)	Measured	Calibrated (pu)
1	24	0	18.10	0
2	24	0	18.10	0

Neutron Constants: NN2 S60

Neutron Source #	7045NK
Neutron Source Type	3 Curie, 1 Capsule

Gamma Calibration: MD2 S58

Maximum Boundary Contrast	338.08	micro-seconds
Fluid Transit Time	625.08	micro-seconds
Limestone Transit Time	183.84	micro-seconds
Sandstone Transit Time	182.88	micro-seconds
Dolomite Transit Time	142.72	micro-seconds
Items for Porosities	DTCA-80 on Compensated Sonic 9/1/94	
Sonic Tool Type	MC-24-25 and MC-24-26 Sonic Tools	
Calibrated	1302.88	MPa
UCS Exponent	0.01125	metres/psi
Transmitter-Receiver 1 Offset	32.00	inches
Transmitter-Receiver 2 Offset	32.00	inches
Transmitter-Receiver 3 Offset	40.00	inches
Transmitter-Receiver 4 Offset	40.00	inches

Sonic Calibration Constants: VX4 267

	Diameter	
Configuration		
Magnetic Declination	19.10	degrees East

Last Edited on 03-JUN-2009 13:13

Magnetometer Parameters: VX4 267

	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	215.000	214.000	190.000
Minimum	144.000	144.000	114.000

Field Calibration on 03-JUN-2009,13:13

Level Cell Calibration: VX4 267

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
128.00	128.00	-20.00	224.00	224.00	20.00
128.00	128.00	-15.00	221.00	221.00	15.00
128.00	128.00	-10.00	220.00	220.00	10.00
128.00	128.00	-5.00	219.00	219.00	5.00
128.00	127.00	-4.00	0.00	0.00	0.00
128.00	126.00	-3.00	0.00	0.00	0.00
173.00	172.00	-2.00	0.00	0.00	0.00
180.00	179.00	0.00	0.00	0.00	0.00
180.00	179.00	0.00	0.00	0.00	0.00
180.00	180.00	4.00	0.00	0.00	0.00
261.00	260.00	5.00	0.00	0.00	0.00

Dipmeter Constants: SQD 428

Search Angle	40.00	degrees
Correlation Interval	2.00	metres
Correlation Window	1.96	metres
Caliper used in Calculations	Yes	
Pad Correlation Length	5	

Last Edited on 03-JUN-2009 13:13

Caliper Calibration: SQD 428

Base Calibration				
Reading No.	Measured A	Measured T	Calibrator Size (mm)	
1	217	217	101.60	
2	218	286	151.60	
3	417	439	127.00	
4	417	439	127.00	
5	1154	1667	305.00	
6	1154	1668	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	0.5000	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 Offset for 8#R1	3.000 mm

Field Calibration on 07-JUN-2009,16:46

Gamma Calibration: SQD 428

	Measured	Calibrated (API)
Background	9	35
Calibrator (Gross)	271	461
Calibrator (Net)	277	436

Gamma Calibration Number: 425

Field Calibration on 07-JUN-2009,16:46

Gamma Calibration: SQD 428

Last Edited on 21-MAY-2009,11:38

General Constants: AF000

General Parameters		
Mud Density	3.210	ohm metres
Mud Resistivity Temperature	21.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Water Level Corrected	
Hole/Casing Volume and Differential Caliper		
HVA Caliper	Caliper from DDB	
HVA Casing Diameter	101.600	mm
Differential Caliper Calculation	Caliper from DDB	
Bias Parameters		
Porosity used	N/A	
Density used	N/A	
HVAA Correction	N/A	
HVAA Constant M	N/A	

Last Edited on 27-MAY-2009,10:51

Gamma Calibration: DDB 661

	Measured	Calibrated (API)
Background	14	37
Calibrator (Gross)	271	461
Calibrator (Net)	277	436

Gamma Calibration Number: 425

Field Calibration on 08-JUN-2009,17:24

Last Edited on 27-MAY-2009,10:15

Gamma Calibration: DDB 661

Last Edited on 27-MAY-2009,10:15

General Constants: AF000

General Parameters		
Mud Density	3.210	ohm metres
Mud Resistivity Temperature	21.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Water Level Corrected	
Hole/Casing Volume and Differential Caliper		
HVA Caliper	Caliper from DDB	
HVA Casing Diameter	101.600	mm
Differential Caliper Calculation	Caliper from DDB	
Bias Parameters		
Porosity used	N/A	
Density used	N/A	
HVAA Correction	N/A	
HVAA Constant M	N/A	

Last Edited on 06-JUN-2009,17:24

Density Calibration: DDB 661

Base Calibration			
Wall Hole	Measured		Calibrated (cu/cc)
	Shallow	Deep	Shallow Deep
Reference 1	2048	1714	3024.7 2002.6
Reference 2	0	0	0 0
Dry Hole	Measured		Calibrated (cu/cc)
Reference 1	2048	1714	3024.7 2002.6
Reference 2	0	0	0 0
Field Check at Base			Calibrated (cu/cc)
			0.0 0.0
Field Check			Calibrated (cu/cc)
			0.0 0.0

Field Calibration on 08-JUN-2009,17:24

Last Edited on 06-JUN-2009,17:24

Density Calibration: DDB 661

Processing Type	DDB
Density Source #	7014CE
Density Source Serial Number	5
Caliper Source for Processing	Caliper from Density
Density Calibration Coefficient	1.00
Mud Density	1.11 g/cc
Mud Filtrate Density	1.00 g/cc
Hole Diameter	0.00
Density Scalar	1.50
Matrix density (gm/cc)	Depth (m)
	2.00 0.00
	2.65 0.00
	2.65 0.00
	2.65 0.00
	2.65 0.00
	2.65 0.00
	2.65 0.00

Last Edited on 27-MAY-2009,10:15

Wet Hole Normalisation

	Measured g/cc	Calibrated g/cc
SBD Point 1	1.00	1.00
SBD Point 2	1.50	1.50
LBD Point 1	3.00	3.00
LBD Point 2	2.50	2.50
	1.50	1.50

Dry Hole Normalisation

	Measured g/cc	Calibrated g/cc
SBD Point 1	1.00	1.00
SBD Point 2	1.50	1.50
LBD Point 1	3.00	3.00
LBD Point 2	2.50	2.50
	1.50	1.50

60CM COMPENSATED SONIC

COMPANY COMPLIANCE ENERGY CORP
WELL RAVEN 001
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
CORPORATE CANADA

Elevation 0.00 Kelly Bushing metres Total Reading 133.20 metres
Elevation Grd Floor metres Depth Driller 133.20 metres
Elevation Ground Level metres Depth Logger 133.20 metres

Weatherford

60CM COMPENSATED SONIC

BOREHOLE RECORD

Last Edited 07-JUN-2008 10:22
Depth 1.5
Depth Logged 1.5
Bit Size 4.50
Casing Size 13.20

Bit Size	Depth From	Depth To
13.20	0.00	1.5
4.50	1.5	133.20

CASING RECORD

Type	Size	Depth From	Shoe Depth	Weight
	(mm)	(metres)	(metres)	(kg/m)

REMARKS

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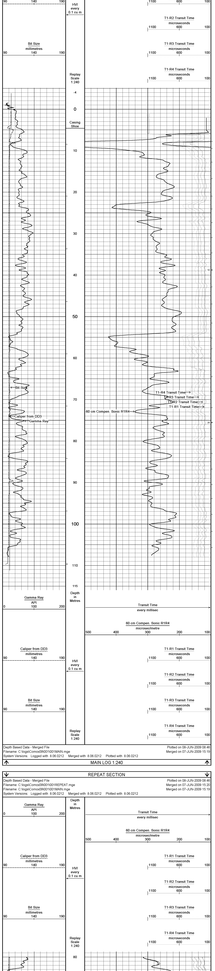
MAIN LOG 1:240

Depth Scale Units - Metres
Panorama 1 Program(version)WEDGE(1.60)Pass(1)Type(Average)
Sensor Versions - Logged with 5.06.01C Merged with 5.06.01C Plotted with 5.06.02C

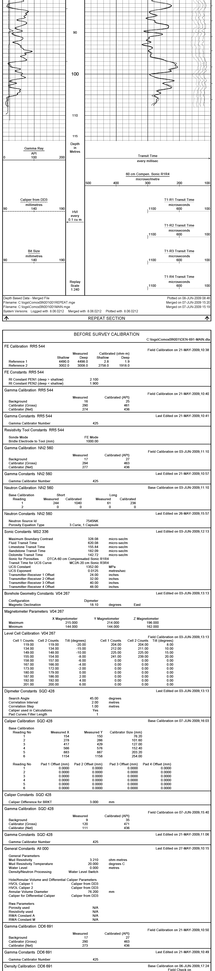
Plotted on 05-JUN-2008 09:49
Merged on 07-JUN-2008 10:19



REPEAT SECTION

Depth Scale Units - Metres
Panorama 1 Program(version)WEDGE(1.60)Pass(1)Type(Average)
Sensor Versions - Logged with 5.06.01C Merged with 5.06.01C Plotted with 5.06.02C

Plotted on 05-JUN-2008 09:49
Merged on 07-JUN-2008 10:19



BEFORE SURVEY CALIBRATION

C:\logs\Compass\WEDGE\BH-001.BHV.dbs

FE Calibration RRS 544 — Field Calibration on 21-MAY-2008,16:30

	Measured	Calibrated (sec-ns)
Baseline	0.000	0.000
Reference 1	4495.0	7112.0
Reference 2	3009.5	2758.0
1919.0		

FE Calibrate RRS 544

Hi Contact PEN1 (deep - shallow)	2.100	
Hi Contact PEN2 (shallow - deep)	2.100	
Gamma Calibrator Number RRS 544	425	

Field Calibrate on 21-MAY-2008,16:40

	Measured	Calibrated (API)
Background	0	0
Calibrator (Deep)	254	450
Calibrator (Shal)	274	436

Gamma Calibrator RRS 544

Last Edited on 21-MAY-2008,16:41

Gamma Calibrator Number 425

Resistivity Trial Constants RRS 544

Stroke Mode	FZ Mode	
Resistivity Constants in Trial (Ohm)	1000.00	

Field Calibration on 03-JUN-2008,11:10

Gamma Calibration M52 580

	Measured	Calibrated (API)
Background	0	0
Calibrator (Deep)	254	450
Calibrator (Shal)	274	436

Last Edited on 07-MAY-2008,10:01

Gamma Calibrator Number 425

Neutron Calibration M52 580 — Base Calibration on 05-JUN-2008,11:10

Base Calibration Shoe	Short		Long	
	Measured	Calibrated	Measured	Calibrated
Shoe	0	0	0	0

Neutron Source Id Calibrated
Neutron Source Calibration 3 Curie, 1 Detector

Last Edited on 05-JUN-2008,12:12

Density Calibration, M52 580

Maximum Boreholes Contrast	326.00	micro secs/m
Fluid Transit Time	620.00	micro secs/m
Limestone Transit Time	155.84	micro secs/m
Sandstone Transit Time	181.00	micro secs/m
Dolomite Transit Time	143.00	micro secs/m
Transit Time for Calibrator	2CP-B-00 cm Compensated	1919.0
Transit Time for US Cavity	MC-DN 20 cm Stone 9/164	
Density Mode	Mode	MPa
CCS Coefficient	0.0100	MPa/microsec
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

Last Edited on 05-JUN-2008,12:13

Borehole Geometry Constants V04 267 — Last Edited on 21-JUN-2008,13:11

	Diameter		
Configuration	18.10	degrees	East
Magic Constant			

Magnetometer Parameters V04 267

	X Magnetometer	Y Magnetometer	Z Magnetometer
Minimum	0.00	0.00	0.00
Maximum	148.000	148.000	148.000

Last Edited on 21-JUN-2008,13:11

Level Cell Calibration V04 267

	Cell 1 Counts	Cell 2 Counts	Cell 3 Counts	Cell 4 Counts	Tilt (degrees)
1	124.00	124.00	123.00	123.00	0.00
2	124.00	124.00	123.00	123.00	10.00
3	124.00	124.00	123.00	123.00	20.00
4	124.00	124.00	123.00	123.00	30.00
5	124.00	124.00	123.00	123.00	40.00
6	124.00	124.00	123.00	123.00	50.00
7	124.00	124.00	123.00	123.00	60.00
8	124.00	124.00	123.00	123.00	70.00
9	124.00	124.00	123.00	123.00	80.00
10	124.00	124.00	123.00	123.00	90.00

Field Calibration on 03-JUN-2008,11:13

Gamma Calibration

Reading No	0.00	degrees C
Calibrator	0.00	degrees C
Calibrator Temperature	0.00	degrees C
Calibrator Number	0.00	
Calibrator Cell Temperature	0.00	degrees C
Calibrator Cell Calibration	0.00	

Last Edited on 05-JUN-2008,11:10

Caliper Calibration SGC 428 — Base Calibration on 07-JUN-2008,10:02

Base Calibration

Reading No	Measured X	Measured Y	Calibrator Size (mm)
1	0.000	0.000	0.000
2	447	429	127.00
3	447	429	127.00
4	447	429	203.20
5	447	429	203.20

Field Calibration on 07-JUN-2008,10:46

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

Last Edited on 07-JUN-2008,10:47

Caliper Constants SGC 428

Caliper Difference for MINT	0.000	mm

Gamma Calibrator DDB 691 — Field Calibration on 07-JUN-2008,16:46

	Measured	Calibrated (API)
Background	0	0
Calibrator (Deep)	254	450
Calibrator (Shal)	110	436

Gamma Calibrator SGC 428 — Last Edited on 27-MAY-2008,11:39

Gamma Calibrator Number 425

Density Calibration DDB 691 — Last Edited on 27-MAY-2008,10:15

General Parameters	
Hole Diameter	3.210 inches
Mud Resistivity Temperature	21.000 degrees C
Mud Resistivity	0.000 ohm metres
Density/Neutron Processing	Water Level Switch
Interferences Volume and Differential Capture Parameters	
HSFX Capture T	Caliper from GCS
HSFX Capture Sigma	Calibrated Capture
Aperture Diameter	76.200 mm
Density/Neutron Processing	Caliper from GCS

Gamma Calibration DDB 691

Formula used	N/A	
Resistivity used	N/A	
Density Cell Used	N/A	
Stick Constant	0.00	

Field Calibration on 21-MAY-2008,10:50

Gamma Calibrator DDB 691

	Measured	Calibrated (API)
Background	0	0
Calibrator (Deep)	254	450
Calibrator (Shal)	110	436

Gamma Calibrator DDB 691 — Last Edited on 21-MAY-2008,10:46

Gamma Calibrator Number 425

Density Calibration DDB 691 — Base Calibration on 06-JUN-2008,11:34

Field Check on

Base Calibration			
	Measured		Calibrated (sec)
Short Long	Short	Long	Short Long
Reference 1	0.0	0.0	0.0 0.0
Reference 2	0.0	0.0	0.0 0.0
Reference 3	0.0	0.0	0.0 0.0

Dry Hole	Measured		Calibrated (sec)	
	Short	Long	Short	Long
Reference 1	2496	1714	3000	2600
Reference 2	0	0	0	0

Field Check at Base — Calibrated (sec)
0.0 0.0

Field Check — Calibrated (sec)
0.0 0.0

Last Edited on 06-JUN-2008,17:24

Density Calibration DDB 691

Processing Type	DENS
Density Source Id	1014C8
Density Calibration Number	1
Caliper Source For Processing	Caliper from Density
Hardrock Strip Coefficient	0.0
Density Units	g/cc
Mud Filtrate Density	1.00
Mud Density	1.00
Density Scaler	1.00

Metric density (g/cc)

0.00	0.00
1.000	1.000
2.000	2.000
3.000	3.000

Wet Hole Normalisation — Measured g/cc — Calibrated g/cc

M52 Point 1	1.00	1.00
M52 Point 2	2.00	2.00
LSD Point 1	1.00	1.00
LSD Point 2	2.00	2.00

Dry Hole Normalisation — Measured g/cc — Calibrated g/cc

M52 Point 1	1.00	1.00
M52 Point 2	2.00	2.00
LSD Point 1	1.00	1.00
LSD Point 2	2.00	2.00

COMPANY	COMPLIANCE ENERGY CORP
WELL	RAV09-001
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA CANADA
UWI	100/16-09-060-20W6/00
Surface Location	16-09-060-20W6
Licence Number	
KB Elevation	
Ground Elevation	
Total Depth	
Logging Company	Weatherford
Date Logged	07-JUN-2009
Date Processed	07-JUN-2009
Log Type	Vertical Analysis
Log Run Number	1
Log Interval	0.00 - 106.00
Log Scale	1:100
Log Header Depth	0.00
Log Footer Depth	106.00
Drill Bit Size	
Drill Fluid Type	
Drill Fluid Density	
Drill Fluid Viscosity	
Drill Fluid Pressure	
Drill Fluid Resistivity	
Drill Fluid Temperature	
Drill Fluid Resistivity Temp	
Drill Fluid Chlorides	
Drill Fluid Ph	
Drill Fluid Calcium	
Drill Fluid Magnesium	
Drill Fluid Sulphates	
Drill Fluid Sulphides	
Drill Fluid Carbonates	
Drill Fluid Bicarbonates	
Drill Fluid Potassium	
Drill Fluid Sodium	
Drill Fluid Calcium Chloride	
Drill Fluid Sodium Chloride	
Drill Fluid Potassium Chloride	
Drill Fluid Calcium Carbonate	
Drill Fluid Sodium Carbonate	
Drill Fluid Potassium Carbonate	
Drill Fluid Sodium Bicarbonate	
Drill Fluid Potassium Bicarbonate	
Drill Fluid Sodium Sulphate	
Drill Fluid Potassium Sulphate	
Drill Fluid Calcium Sulphate	
Drill Fluid Sulphide	
Drill Fluid Sulphide Type	
Drill Fluid Sulphide Temp	
Drill Fluid Sulphide Chlorides	
Drill Fluid Sulphide Ph	
Drill Fluid Sulphide Calcium	
Drill Fluid Sulphide Magnesium	
Drill Fluid Sulphide Sulphates	
Drill Fluid Sulphide Sulphides	
Drill Fluid Sulphide Carbonates	
Drill Fluid Sulphide Bicarbonates	
Drill Fluid Sulphide Potassium	
Drill Fluid Sulphide Sodium	
Drill Fluid Sulphide Calcium Chloride	
Drill Fluid Sulphide Sodium Chloride	
Drill Fluid Sulphide Potassium Chloride	
Drill Fluid Sulphide Calcium Carbonate	
Drill Fluid Sulphide Sodium Carbonate	
Drill Fluid Sulphide Potassium Carbonate	
Drill Fluid Sulphide Sodium Bicarbonate	
Drill Fluid Sulphide Potassium Bicarbonate	
Drill Fluid Sulphide Sodium Sulphate	
Drill Fluid Sulphide Potassium Sulphate	
Drill Fluid Sulphide Calcium Sulphate	
Drill Fluid Sulphide Sulphide	
Drill Fluid Sulphide Sulphide Type	
Drill Fluid Sulphide Sulphide Temp	
Drill Fluid Sulphide Sulphide Chlorides	
Drill Fluid Sulphide Sulphide Ph	
Drill Fluid Sulphide Sulphide Calcium	
Drill Fluid Sulphide Sulphide Magnesium	
Drill Fluid Sulphide Sulphide Sulphates	
Drill Fluid Sulphide Sulphide Sulphides	
Drill Fluid Sulphide Sulphide Carbonates	
Drill Fluid Sulphide Sulphide Bicarbonates	
Drill Fluid Sulphide Sulphide Potassium	
Drill Fluid Sulphide Sulphide Sodium	
Drill Fluid Sulphide Sulphide Calcium Chloride	
Drill Fluid Sulphide Sulphide Sodium Chloride	
Drill Fluid Sulphide Sulphide Potassium Chloride	
Drill Fluid Sulphide Sulphide Calcium Carbonate	
Drill Fluid Sulphide Sulphide Sodium Carbonate	
Drill Fluid Sulphide Sulphide Potassium Carbonate	
Drill Fluid Sulphide Sulphide Sodium Bicarbonate	
Drill Fluid Sulphide Sulphide Potassium Bicarbonate	
Drill Fluid Sulphide Sulphide Sodium Sulphate	
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Drill Fluid Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Magnesium	
Drill Fluid Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphates	
Drill Fluid Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphides	
Drill Fluid Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Sulphide Carbonates	
Drill Fluid Sulphide Sul

RICM COMPENSATED SONIC
GAMMA RAY, CALIPER

COMPANY	COMPLIANCE COAL CORP
WELL	RAVIS-002
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Weatherford Serial Number	1
Report Type	RICM COMPENSATED SONIC GAMMA RAY, CALIPER
Date	2006-Jul-24
Time Logging	01:00 - before
Depth Logged	1000.0 m
Depth Driller	1000.0 m
Casing Shoe	0.0 m
Bit Size	152.4 mm
Mud Type	Water
Mud Density	1.00 g/cm³
Mud Viscosity	0.0 s
Mud Resistivity	0.0 Ohm-m
Max Temp	0.0 °C
Max Deviation	0.0 deg
Logging Unit	1
Logging Engineer	
Witnessed By	

BOREHOLE RECORD

Bit Size	Depth Out	Log Interval
152.4 mm	1000.0 m	0.0 m - 1000.0 m
152.4 mm	0.0 m	0.0 m - 0.0 m

CASING RECORD

Type	Size	Weight	Grade	Thread	Top	Bottom
	mm	kg/m			m	m
Casing Shoe	0.0 mm	0.0 kg/m			0.0 m	0.0 m

REMARKS

CLINOMETER
CALIPER
GAMMA
SNP
SDT
TVD
TVD STAND
RPM 200-400 UP

GAMMA RAY CALIBRATION
API PIPE STD NO. 3420
API UNITS

WELL PLUGGING
WELL WAS CLOSED STANDING ALONE

DUE TO LOCK CONDITION BENT, WAS STOPPED AT 1199 FOR TO AND FLUSHING IN BELL. DIFFMTER WAS NOT REPRINTED DUE TO LOCK CONDITION

All interpretations are opinions based on inferences from electrical or other measurements and are owned, 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 standard terms and conditions as set forth in our current price schedule.

MAIN LOG 1 3400

Depth Scale: 1000 - 1000 m
Filename: C:\logs\CoalSDT\RICM-SONIC-GR\RICM-SONIC-GR.pwg
Depth Source: C:\logs\CoalSDT\RICM-SONIC-GR\RICM-SONIC-GR.DEPTH
Created: 2006-Jul-24 01:00 Printed: 2006-Jul-24 01:00

Gamma Ray 0 API 200 | Caliper Data 100 mm 400 | Bit Size 100 mm 400 | Depth Scale 1:1.0 m | Depth Meters | Transit Time 200 us/m 100 | 10 JS Transit Time 200 us/m 100 | 20 JS Transit Time 200 us/m 100 | 30 JS Transit Time 200 us/m 100 | 40 JS Transit Time 200 us/m 100 | Density Rho 1.0 g/cm³ 3.0 | Caliper Data 100 mm 400 | Bit Size 100 mm 400

REPEAT SECTION

Depth Scale: 1000 - 1000 m
Filename: C:\logs\CoalSDT\RICM-SONIC-GR\RICM-SONIC-GR.pwg
Depth Source: C:\logs\CoalSDT\RICM-SONIC-GR\RICM-SONIC-GR.DEPTH
Created: 2006-Jul-24 01:00 Printed: 2006-Jul-24 01:00

Gamma Ray 0 API 200 | Caliper Data 100 mm 400 | Bit Size 100 mm 400 | Depth Scale 1:1.0 m | Depth Meters | Transit Time 200 us/m 100 | 10 JS Transit Time 200 us/m 100 | 20 JS Transit Time 200 us/m 100 | 30 JS Transit Time 200 us/m 100 | 40 JS Transit Time 200 us/m 100 | Density Rho 1.0 g/cm³ 3.0 | Caliper Data 100 mm 400 | Bit Size 100 mm 400

BEFORE SURVEY CALIBRATION

Gamma Calibrator, AD 2000

Standard Parameters		
Gain Setting	2.100	zero sensitive
Base Resolution, Temperature	0.000	degrees C
Battery Level	9.000	volts
Gamma Calibrator Processing	Water Level	0.000
Verification Values and Differential Calibrator Parameters		
Verification Value	Calibrator Value	
2400 Counts / 2	Calibrator Value 2000	
Calibrator Value Difference	Calibrator Value 2000	zero
Calibrator Value Difference Limit	0.000	
Max Parameters		
Max Temperature	N/A	
Supply Voltage	N/A	
Max Gamma Count	N/A	
Max Gamma Calibrator Count	N/A	
2400 Counts 2	N/A	

Gamma Calibrator, DDK-990

	Measured	Calibrated (API)
Background	27	27
Calibrator Offset	2000	2000
Calibrator Gain	1.000	1.000

Gamma Calibrator, DDK-990

Calibrator Gain	1.000

Gamma Calibrator, DDK-990

Gain Calibration	Measured	Calibrated (API)
Main Gain	1.000	1.000
Reference 1	2000 CPS	2000 API
Reference 2	1000 CPS	1000 API
Zero Gain	Measured	Calibrated (API)
Reference 1	2000 CPS	2000 API
Reference 2	1000 CPS	1000 API
Front Check & Base		0.000 API
		0.000 CPS
Front Check	Measured	Calibrated (API)
		0.000 API
		0.000 CPS

Density Calibrator, DDK-990

Housekeeping Table	12C0	
Density Calibrator Table	1000	
Standards Calibrator Number	1	
Density Calibrator Standard Density	2.500	g/cm³
Density Filter Coefficient	0.100	
Density Offset	0.000	g/cm³
Main Density Gain	1.000	
Density Gain	1.000	
Density Scaler	1000	
Density Scaler (gamma)	1000	
Density Gain	Measured	Calibrated
0.00	0.00	0.00
0.50	0.50	0.50
1.00	1.00	1.00
2.00	2.00	2.00
3.00	3.00	3.00
4.00	4.00	4.00
Mid Hole Normalization	Measured g/cc	Calibrated g/cc
2600 Count 1	2.500	2.500
2600 Count 2	2.500	2.500
2600 Count 3	2.500	2.500
2600 Count 4	2.500	2.500
Cm Hole Normalization	Measured g/cc	Calibrated g/cc
2600 Count 1	2.500	2.500
2600 Count 2	2.500	2.500
2600 Count 3	2.500	2.500
2600 Count 4	2.500	2.500

Caliper Calibration, DDK-990

Main Calibration		
Reference	Measured	Calibrated (mm)
1	0.000	0.000
2	0.000	0.000
Zero Calibration	Measured	Calibrated (mm)
1	0.000	0.000
2	0.000	0.000
Front Calibration	Measured	Calibrated (mm)
		0.000
		0.000

Caliper Calibration, DDK-990

Main Gain	1.000	
Caliper Offset	0.000	mm
Caliper Gain	1.000	
Caliper Scaler	1000	
Caliper Scaler (gamma)	1000	
Caliper Gain	Measured	Calibrated (mm)
0.00	0.00	0.00
0.50	0.50	0.50
1.00	1.00	1.00
2.00	2.00	2.00
3.00	3.00	3.00
4.00	4.00	4.00

Sonic Calibration, DDK-990

Housekeeping Table	12C0	
Sonic Calibration Table	1000	
Standards Calibrator Number	1	
Sonic Calibrator Standard Density	2.500	g/cm³
Sonic Filter Coefficient	0.100	
Sonic Offset	0.000	g/cm³
Main Sonic Gain	1.000	
Sonic Gain	1.000	
Sonic Scaler	1000	
Sonic Scaler (gamma)	1000	
Sonic Gain	Measured	Calibrated
0.00	0.00	0.00
0.50	0.50	0.50
1.00	1.00	1.00
2.00	2.00	2.00
3.00	3.00	3.00
4.00	4.00	4.00

Sonic Calibrator, DDK-990

Main Gain	1.000	
Sonic Offset	0.000	us/m

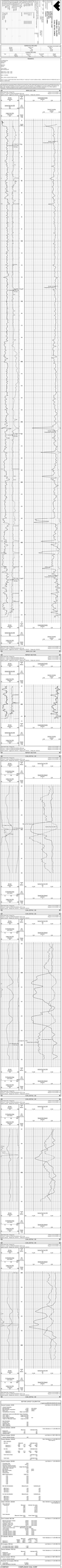
Date	2011/08/18	Time	14:00
Operation	Drilling	Depth	1,000 m

Hole Size	Casing Size	Casing Shoe	Mud Type	Density	Viscosity
311.1 mm	244.5 mm	1,000 m	Water	1.00 g/cm³	1 s

Pump No.	Liner Size	Stroke	Pump Pressure	Flow Rate
1	152 mm	305 mm	0 kPa	0 L/min
2	152 mm	305 mm	0 kPa	0 L/min

Bit No. 1
Bit Type
Bit Size 311.1 mm
Bit Nozzles
Bit Hours 0.0 hr
Bit Run 0.0 m
Bit Weight 0.0 kN
Rotary Speed 0 rpm
Torque 0 kNm

Drilling Time 0.0 min
Drilling Rate 0.0 m/hr
Mud Temperature 0 °C
Mud Resistivity 0 Ωm
Flow Rate 0 L/min
Hook Load 0 kN
Weight on Bit 0 kN
Standpipe Pressure 0 kPa
Surface Torque 0 kNm
Rotary Speed 0 rpm
Penetration Rate 0 m/hr
Mud Density 1.00 g/cm³
Mud Viscosity 1 s
Pump Strokes 0 spm
Mud Flow In 0 L/min
Gas Analysis
Total Gas 0 %
Ethane (C2) 0 %
Propane (C3) 0 %
Isobutane (iC4) 0 %
Butane (nC4) 0 %
Isopentane (iC5) 0 %
Pentane (nC5) 0 %
Hydrogen Sulfide (H2S) 0 %
Carbon Dioxide (CO2) 0 %
Helium (He) 0 %
Methane (C1) 0 %
Nitrogen (N2) 0 %
Oxygen (O2) 0 %
Mud Temperature 0 °C
Mud Resistivity 0 Ωm
Flow Rate 0 L/min
Hook Load 0 kN
Weight on Bit 0 kN
Standpipe Pressure 0 kPa
Surface Torque 0 kNm
Rotary Speed 0 rpm
Penetration Rate 0 m/hr
Mud Density 1.00 g/cm³
Mud Viscosity 1 s
Pump Strokes 0 spm
Mud Flow In 0 L/min


MUD LOG
Drilling Time
Drilling Rate
Penetration Rate
Gas Analysis
Total Gas
Ethane (C2)
Propane (C3)
Isobutane (iC4)
Butane (nC4)
Isopentane (iC5)
Pentane (nC5)
Hydrogen Sulfide (H2S)
Carbon Dioxide (CO2)
Helium (He)
Methane (C1)
Nitrogen (N2)
Oxygen (O2)
Mud Temperature
Mud Resistivity
Flow Rate
Hook Load
Weight on Bit
Standpipe Pressure
Surface Torque
Rotary Speed
Mud Density
Mud Viscosity
Pump Strokes
Mud Flow In
CONNECTIONS
DRILLING TIME
DRILLING RATE
CONNECTIONS
DRILLING TIME
DRILLING RATE
CONNECTIONS
DRILLING TIME
DRILLING RATE

Weatherford			
COMPANY	COMPLIANCE COAL CORP		
WELL	RAVIS-002		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Simulation Date Scanning	metres	Total Reading	412.50 metres
Elevation Drill Floor	metres	Depth Driller	411.17 metres
Elevation Ground Level	metres	Depth Logger	412.50 metres

COMPOSITE COAL LOG

COMPOSITE COAL LOG

COMPLIANCE COAL CORP
RAVIS-002
UNDEFINED
BRITISH COLUMBIA
CANADA

Well Name	RAVIS-002
Company	COMPLIANCE COAL CORP
Field	UNDEFINED
Province	BRITISH COLUMBIA
Country	CANADA
Surface Latitude	49.4
Surface Longitude	-124.8
Surface Coordinate Zone	10
Surface Coordinate Datum	NAD83
Surface Location	
Bottom Hole Latitude	
Bottom Hole Longitude	
Bottom Hole Coordinate Zone	
Bottom Hole Coordinate Datum	
Bottom Hole Location	
Elevation Reference	GL
Elevation	
Log Date	2009 JAN 26
Run Number	ONE
Depth Driller	412.50
Depth Logger	412.50
Bottom Log Interval	412.50
Top Log Interval	0.00
Casing Driller	0.00
Casing Logger	0.00
Bit Size	311.00
Type Fluid in Hole	WATER
Density	
Viscosity	
PH	
Fluid Loss	
Source of Sample	
Rm @ Measured Temperature	
Rmf @ Measured Temperature	
Rmc @ Measured Temperature	
Source Rmf / Rmc	
Rm @ BHT	
Time Since Circulation	
Time Since Logging	
Max Recorded Temperature	
Equipment Number	
Location	
Recorded By	
Witnessed By	

BOREHOLE RECORD

Bit Size (mm)	Depth From (m)	Depth To (m)	Last Called: 26-JUN-2009 14:45
311.00	0.00	412.50	

CASING RECORD

Type	Size (mm)	Depth From (m)	Depth To (m)	Shoe Depth (m)	Weight (kg/m)
	193.70	0.00	4.60		23.00

REMARKS

COORDINATES
SPUDDED
SPUD DATE
SPUDDING
(days)

TOTAL RUNS
BOTTOM LOG TEMP

BORE WALL CONC - SKO
BORE HOLE CONC - SKO

WELL FLOWING

WELL WAS LOGGED STAND ALONE

DUE TO HOLE CONDITIONS BONC WAS STOPPED AT 13M DUE TO CAR FLOWING IN WELL, DIPMETER WAS NOT REPEATED 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 be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made based on such effects, agents or employees. We shall not be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any service or product provided or any other matter or thing whatsoever.

COMPOSITE LOG 1:240

Depth Based Data - Merged File
Source: Compliance Coal Corporation RAVIS0002, MWN.mgw
System Versions - Logged with 8.09.0312 Merged with 8.09.0312 Printed with 8.09.0312

Printed on 26-JUN-2009 17:47
Merged on 26-JUN-2009 15:42

Bit Size millimetres 140 — 150

FE Resistivity Shallow ohm metres 0.2 — 2000

FE Resistivity Deep ohm metres 0.2 — 2000

Gamma Ray from DDS API 0 — 150

Caliper from DDS millimetres 140 — 150

Density Short Spaced grams/cc 1.95 — 2.95

Depth Metres

Vertically Typical Scale Magnetic North

Compensated Density grams/cc 1 — 3 | 88 cps Compass, Sonic 91/64 microseconds/metre 300 — 100

Density Caliper (in) millimetres 216 — 316

Density Correction grams/cc -0.25 — 0.25

Density Short Spaced grams/cc 1.95 — 2.95

Caliper from DDS millimetres 140 — 150

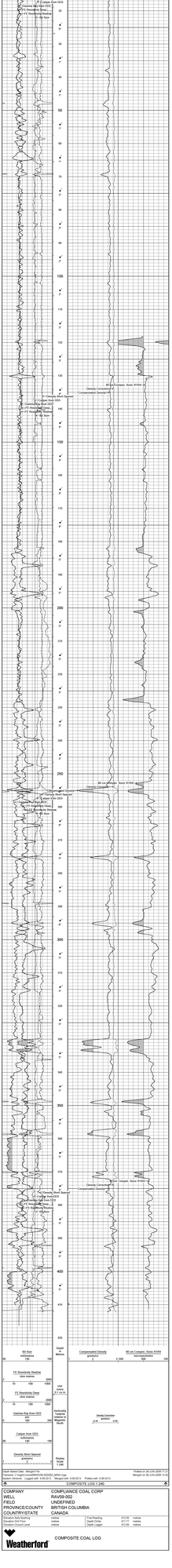
Gamma Ray from DDS API 0 — 150

FE Resistivity Deep ohm metres 0.2 — 2000

FE Resistivity Shallow ohm metres 0.2 — 2000

Bit Size millimetres 140 — 150

Display Scale 1:240 Metres


Casing Shoe
Density Caliper (in)
Compensated Density
Density Short Spaced
Gamma Ray from DDS
Caliper from DDS
FE Resistivity Shallow
FE Resistivity Deep
Density Correction
88 cps Compass, Sonic 91/64
Density Caliper (in)
Compensated Density
Density Short Spaced
Gamma Ray from DDS
Caliper from DDS
FE Resistivity Deep
FE Resistivity Shallow

DIPMETER ANALYSIS

COMPLIANCE COAL CORP
ROUN-093
UNDEFINED
BRITISH COLUMBIA
CANADA

Field Operator	Logging Company	Field Processing Centre	Field Processing Date
Weatherford	Weatherford	Calgary	2011-06-14

DIPMETER ANALYSIS

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

COMPANY	CONFLUENCE COAL CORP
WELL	FIELD NO. 1
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Service Rig Operator	Leeds	Tool Rating	212 DC deg
Logging Equipment	Leeds	Logging Method	Wireline
Logging Unit	Leeds	Logging Date	2011-Jun-28

Weatherford

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

BOREHOLE RECORD

Bit Size (mm)	Bit Type	Depth From (m)	Depth To (m)	Last Circ. Date
152.4	PDC	0.00	300.00	2011-Jun-28

CASING RECORD

Type	Size (mm)	Weight (kg/m)	Grade	Depth Set (m)	Depth Drlr (m)	Depth Log (m)
Casing	177.8	34.23	J55	0.00	300.00	300.00

REMARKS

CONDITIONS
LOGGING
DATA
QUALITY
GOOD

TOTAL RUNS
1 (ONE) RUN

RUN NO. ONE (1ONE) - 0001
RUN DATE (1ONE) - 2011

WELL FULL CONDITIONS
WELL FULL CONDITIONS

RUN 1 (1ONE) CONDITIONS WERE WAS EFFORTS AT 7.00 DUE TO 1.00 FLOWING IN WELL, OPINETER WAS NOT REPEATED DUE TO 1.00 FLOWING

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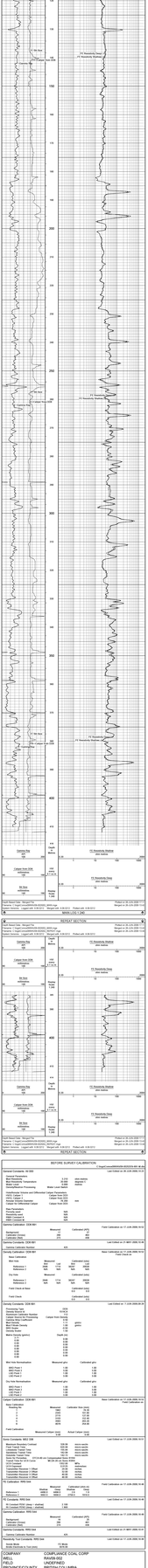


BEFORE SURVEY CALIBRATION

Version: 1 Graph:CoalGR0409-0503SL.dlhl3.dgr

General Constants IN SID

Amplifier Gain	2.310	
Max Calibration	1.000	pico seconds
Max Gamma	1.000	counts/s
Density/Neutron Processing	Water Level Gamma	
Gain/Focus Source Strength/Focus Mode	0.000	
Gamma Source Strength	0.000	
HES Caliper 2	Caliper Arm 2000	
Hole Reference Diameter	Caliper Arm 2000	mm
Density Calibration Values		
Density Scale	1000	
Density Level	500	
Density Offset	0.000	
Density Gain	1.000	
Density Calibration Source	2.500	
Gamma Calibration Number	4.00	

Gamma Constants, CDN 661

	Measured	Calibrated (API)
Background	0.000	0.000
Calibration Energy	200	200
Calibration Value	1.000	1.000

Last Calibration on 01-MAY-2009 00:00

Gamma Calibration Number 4.00

Gamma Constants, CDN 661

Last Calibration on 11-JUN-2009 00:00

Field Check on

Gamma Calibration

Bore Hole	Measured	Calibrated (API)
Reference 1	0.000	0.000
Reference 2	1.000	1.000
Dry Cave	Measured	Calibrated (API)
Reference 1	0.000	0.000
Reference 2	1.000	1.000
Field Check at Base	Measured	Calibrated (API)
	1.000	1.000
Field Check		Calibrated (API)
		1.000

Gamma Constants, CDN 661

Last Calibration on 11-JUN-2009 00:00

Field Check on

Density Calibration

Processing Type	DENS	
Density Calibration Source	2.500	
Density Calibration Number	4.00	
Density Scale Factor	Caliper Arm 2000	
Density Scale Coefficient	1.00	
Density Level	500	grams
Density Offset	0.000	grams
Bore Diameter	152.4	mm
Density Gain	1.000	
Bore Density (grams)	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	
Bar Cal Determination	Measured g/cc	Calibrated g/cc
BBD Plate 1	2.00	2.00
BBD Plate 2	3.00	3.00
BBD Plate 3	4.00	4.00
BBD Plate 4	5.00	5.00
Dry Hole Determination	Measured g/cc	Calibrated g/cc
Reference 1	1.00	1.00
Reference 2	2.00	2.00
Field Check 1	1.00	1.00
Calibration Constants, CDN 661		
Density Constants, CDN 661		Last Calibration on 11-JUN-2009 00:00
Bearing No	Measured	Calibrated Size (mm)
1	1.000	152.40
2	2.000	152.40
3	3.000	152.40
4	4.000	152.40
5	5.000	152.40
6	6.000	152.40
Field Calibration	Measured Caliper (size)	Actual Caliper (size)
	152.40	152.40

Density Constants, DEC 338

Last Calibration on 11-JUN-2009 10:31

Field Calibration on 11-JUN-2009 10:31

Maximum Structure Contrast	128.00	micro seconds
Minimum Structure Contrast	128.00	micro seconds
Calibration Tension Time	0.00	micro seconds
Calibration Tension Value	0.00	micro seconds
Operating Tension Time	60.00	micro seconds
Operating Tension Value	0.00	micro seconds
Tension Time Per Foot	60.00 Calibration Tension Time	
Tension Value Per Foot	0.00 Calibration Tension Value	
Tension Offset	0.00	
Transmitter Resistance 1 Offset	10.00	ohms
Transmitter Resistance 1 Slope	0.00	ohms
Transmitter Resistance 2 Offset	10.00	ohms
Transmitter Resistance 2 Slope	0.00	ohms

HI Calibration, WIN Dark

Field Calibration on 11-JUN-2009 09:38

	Measured	Calibrated (API units)
Reference 1	1000.0	1000.0
Reference 2	1000.0	1000.0

Last Calibration on 11-JUN-2009 09:38

HI Constant, WIN Dark

HI Constant WIN (deep - shallow)	2.100
HI Constant WIN (shallow - deep)	2.100

Field Calibration on 11-JUN-2009 09:38

Gamma Calibration, WIN Dark

		Measured	Calibrated (API)
Background		0.000	0.000
Calibration Energy		200	200
Calibration Value		1.000	1.000

Last Calibration on 01-MAY-2009 10:00

Gamma Calibration Number 4.00

Gamma Constants, WIN Dark

Last Calibration on 11-JUN-2009 10:00

Density Scale 1000
Density Offset 0.000

HI Model
HI Serial No 1000

Gamma Constants, WIN Dark

Last Calibration on 11-JUN-2009 10:00

Version: 1 Graph:CoalGR0409-0503SL.dlhl3.dgr
Total Depth Date: 2011-Jun-28 Depth: 300.00 m
Logged Interval: 0.00 m - 300.00 m Printed on 28-JUN-2011 10:41
Merged on 28-JUN-2011 10:40

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-002
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Licence Number					
Permanent Datum GL, Elevation 0.0, metres					
Log Measured From GROUND LEVEL above Permanent Datum					
Date	25-JUN-2009				
Depth Driller	417.77	metres			
Depth Logger	412.56	metres			
Bottom Logged Interval	412.56	metres			
Top Logged Interval	0.00	metres			
Casing Driller	4.60	metres			
Casing Logger	4.60	metres			
Bit Size	22.30	metres			
Drilling Fluid Type	WATER				
Drill Fluid Level					
Density / Viscosity					
Max Rec Temp					
Max Rec Time					
Equipment Base					
Witnessed By					
Recorded By	O.CULLINGHAM				
Equipment	11536				
Source Run / Inv.	1				
Prog. @ Measured Temp					
Prog. @ Measured Time					
Source Run / Inv.					
Time Since Circulation					
Time Since Logging

VERTICALITY ANALYSIS

COMPANY	COMPLIANCE COAL CORP
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

WELL	UTM ZONE	DATUM	EAST	NORTH	DATE	DRILLER	RIG	ELEVATION	DATUM
RAV09-002	10	NAD83	0	0	Jan 25, 2009	Longhole Inclinometer	SONIC	412.00	Collar Elevation

WATER									
Water Depth	Water Flow	Water Pressure	Water Temperature	Water Conductivity	Water Resistivity	Water Salinity	Water Density	Water Viscosity	Water Sound Velocity
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Units	Units	Units	Units	Units	Units	Units	Units	Units	Units
meters	liters/min	kPa	deg C	mS/cm	ohm-m	ppt	kg/m3	cSt	m/s

RESISTIVITY		
Depth	Resistivity	Temperature
0.00	0.00	0.00
25.00	0.00	0.00
50.00	0.00	0.00
75.00	0.00	0.00
100.00	0.00	0.00
125.00	0.00	0.00
150.00	0.00	0.00
175.00	0.00	0.00
200.00	0.00	0.00
225.00	0.00	0.00
250.00	0.00	0.00
275.00	0.00	0.00
300.00	0.00	0.00
325.00	0.00	0.00
350.00	0.00	0.00
375.00	0.00	0.00
400.00	0.00	0.00
425.00	0.00	0.00
450.00	0.00	0.00
475.00	0.00	0.00
500.00	0.00	0.00
525.00	0.00	0.00
550.00	0.00	0.00
575.00	0.00	0.00
600.00	0.00	0.00
625.00	0.00	0.00
650.00	0.00	0.00
675.00	0.00	0.00
700.00	0.00	0.00
725.00	0.00	0.00
750.00	0.00	0.00
775.00	0.00	0.00
800.00	0.00	0.00
825.00	0.00	0.00
850.00	0.00	0.00
875.00	0.00	0.00
900.00	0.00	0.00
925.00	0.00	0.00
950.00	0.00	0.00
975.00	0.00	0.00
1000.00	0.00	0.00

BOREHOLE RECORD

Bit Size millimeters	Depth From meters	Last Edited: 26-JUN-2009 14:48 Depth To meters	Weight kilograms
155.575	0.00	409.00	0.00
146.050	409.00	412.00	

CASING RECORD

Type	Size millimeters	Depth From meters	Shoe Depth meters	Weight kg/m
	155.575	0.00	4.90	37.30

REMARKS

COORDINATES:
NORTHING
5495900

EASTING
364450

TOOL RUNS
RR0205-M52.DIP

BORE WALL CONDI - BAD
BORE HOLE STATE - BAD

WELL FLOWING

WELL WAS LOGGED STAND ALONE

DUE TO HOLE CONDITIONS SONIC WAS STORED AT 115M DUE TO GAS FLOWING IN WELL. DIPMETER WAS NOT REPEATED DUE TO HOLE CONDITIONS

Verticality Analysis Interpretation Notes

26-JUN-2009 15:02

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 from the borehole. The listing supplied will contain a maximum of 200 points in multiples of 1, 2, 5, 10, 25, 50 or 100 as determined 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 characterised by erratic or high magnetic readings). 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 co-ordinates 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\Consol\RAV09-002\DIP-426-267-M.dix

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

First Depth: 1.80, 0.00 North, 0.00 East of Origin

Date Processed: 26-JUN-2009
Date Logged: 25-JUN-2009

DEPTHS		BOREHOLE		AXIAL CO-ORDS		POLAR	
Log	True	Tilt	Azi	North	East	Brg	Radius
1.80	1.80	0.6	1.9	-0.02	-0.02	310	0.03
11.00	11.00	0.6	30.4	0.06	-0.02	339	0.07
21.00	21.00	0.6	43.8	0.17	0.02	353	0.17
31.00	31.00	0.6	57.7	0.16	-0.02	7	0.16
26.00	26.00	0.8	45.0	0.20	0.01	18	0.21
36.00	36.00	0.7	63.1	0.24	0.04	9	0.24
36.00	36.00	0.7	63.1	0.31	0.21	34	0.38
41.00	41.00	1.5	56.5	0.38	0.30	38	0.48
46.00	45.99	1.3	49.7	0.46	0.40	42	0.61
53.00	50.99	1.8	52.5	0.54	0.53	44	0.75
58.00	55.99	1.8	55.3	0.62	0.66	46	0.90
61.00	60.98	1.8	48.1	0.75	0.74	44	1.05
66.00	65.98	1.7	50.9	0.87	0.86	45	1.22
71.00	70.97	1.7	53.7	0.98	0.98	45	1.39
76.00	75.96	2.3	52.9	1.18	1.10	44	1.58
81.00	80.97	2.5	60.3	1.27	1.23	44	1.77
86.00	85.97	2.1	58.6	1.41	1.36	46	1.97
91.00	90.96	2.8	59.2	1.54	1.55	45	2.19
96.00	95.95	2.8	59.2	1.67	1.74	46	2.42
101.00	100.95	2.4	59.2	1.83	1.92	46	2.65
106.00	105.95	3.1	65.3	1.98	2.11	47	2.96
111.00	110.93	3.5	64.7	2.14	2.29	47	3.15
116.00	115.93	3.1	64.7	2.29	2.52	48	3.41
121.00	120.93	3.5	64.7	2.47	2.76	48	3.72
126.00	125.92	3.7	64.7	2.65	3.01	49	4.01
131.00	130.91	4.0	62.1	2.83	3.27	49	4.33
136.00	135.90	4.4	61.2	3.02	3.54	49	4.65
141.00	140.88	4.1	67.2	3.20	3.80	50	5.01
146.00	145.87	3.6	66.6	3.43	4.12	50	5.36
151.00	150.87	4.2	62.9	3.64	4.42	51	5.72
156.00	155.84	4.6	66.1	3.85	4.72	51	6.08
161.00	160.84	4.7	67.2	4.06	4.99	51	6.44
166.00	165.81	4.7	62.3	4.31	5.34	51	6.87
171.00	170.80	4.7	64.1	4.54	5.66	51	7.26
176.00	175.79	5.0	61.6	4.78	5.99	51	7.68
181.00	180.76	5.0	59.7	5.04	6.33	51	8.09
186.00	185.74	5.0	63.3	5.30	6.67	52	8.52
191.00	190.72	5.8	55.6	5.58	7.03	52	8.97
196.00	195.70	5.8	59.9	5.89	7.41	52	9.46
201.00	200.67	6.2	58.8	6.21	7.79	52	9.97
206.00	205.65	5.7	62.6	6.45	8.16	52	10.40
211.00	210.63	5.5	66.9	6.72	8.55	52	10.87
216.00	215.61	5.6	67.4	6.99	8.93	52	11.34
221.00	220.59	5.6	67.5	7.26	9.34	52	11.83
226.00	225.56	5.8	65.3	7.52	9.75	52	12.31
231.00	230.54	5.7	67.1	7.77	10.16	52	12.80
236.00	235.51	5.8	65.6	8.03	10.58	53	13.28
241.00	240.49	5.8	65.6	8.29	10.99	53	13.77
246.00	245.46	6.3	67.0	8.54	11.42	53	14.26
251.00	250.44	5.7	71.3	8.80	11.86	53	14.77
256.00	255.41	6.0	72.5	9.05	12.31	53	15.29
261.00	260.38	6.7	72.5	9.31	12.74	54	15.78
266.00	265.35	6.0	67.8	9.58	13.21	54	16.31
271.00	270.33	5.9	71.4	9.83	13.65	54	16.83
276.00	275.30	6.0	70.8	10.07	14.10	54	17.32
281.00	280.27	6.3	70.8	10.32	14.55	54	17.82
286.00	285.25	5.9	72.5	10.53	14.99	54	18.32
291.00	290.23	6.1	73.8	10.77	15.44	55	18.82
296.00	295.20	6.1	73.8	10.99	15.89	55	19.32
301.00	300.17	5.7	75.4	11.25	16.32	55	19.86
306.00	305.15	5.6	73.4	11.45	16.81	56	20.34
311.00	310.12	5.3	76.8	11.65	17.24	56	20.81
316.00	315.10	5.4	78.4	11.84	17.67	56	21.27
321.00	320.08	5.6	77.5	12.04	18.09	56	21.73
326.00	325.05	5.9	79.9	12.20	18.56	57	22.21
331.00	330.03	5.6	79.4	12.37	19.00	57	22.67
336.00	335.00	5.3	80.4	12.53	19.43	57	23.13
341.00	339.98	5.4	77.5	12.69	19.86	57	23.60
346.00	344.96	5.6	77.5	12.85	20.34	58	24.05
351.00	349.94	5.4	78.8	13.00	20.79	58	24.50
356.00	354.92	5.6	79.2	13.15	21.24	58	24.96
361.00	359.90	5.6	78.8	13.31	21.69	58	25.42
366.00	364.87	6.0	79.6	13.47	22.20	58	25.96
371.00	369.84	5.7	77.1	13.64	22.66	58	26.45
376.00	374.82	5.7	77.5	13.82	23.11	58	26.93
381.00	379.79	5.8	74.9	14.00	23.56	58	27.40
386.00	384.77	5.8	76.6	14.19	24.00	59	27.86
391.00	389.75	5.3	77.1	14.37	24.43	60	28.34
396.00	394.73	5.6	76.2	14.55	24.87	60	28.81
401.00	399.71	5.6	76.2	14.73	25.31	60	29.28
406.00	404.68	5.3	78.3	14.95	25.71	60	29.74

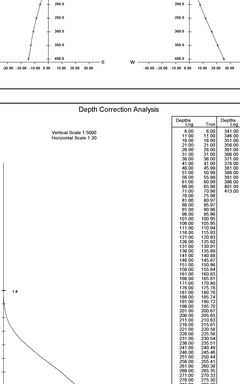
Cross Section

All Figures are Log Depths in metres

Target Origin Depth: 1.80
Last Plotted Depth 413.00
Depth Markers annotated in multiples of 50
First Depth Marker at 50
Last Depth Marker at 400

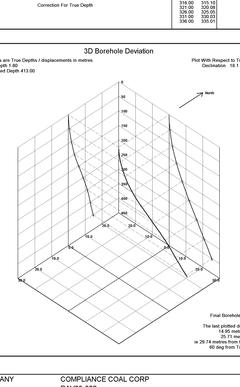
Plot With Respect to True North

Scale 1:500
Declination 18.1 deg East



Final Borehole Position
The last plotted depth is at
7.35 metres North
25.71 metres East
ie 29.74 metres from the origin
60 deg from True North

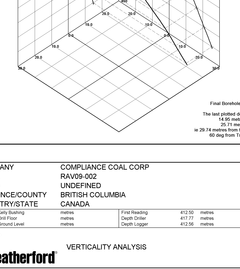
Vertical Sections



Depth Correction Analysis

All Figures are Log Depths in metres

Vertical Scale 1:5000
Horizontal Scale 1:20



Depths Log	Depths True	Depths Log	Depths True
1.80	1.80	110.00	109.98
11.00	11.00	346.00	344.96
16.00	16.00	351.00	349.94
21.00	21.00	356.00	354.92
26.00	26.00	361.00	359.90
31.00	31.00	366.00	364.87
36.00	36.00	371.00	369.84
41.00	41.00	376.00	374.82
46.00	45.99	381.00	379.79
53.00	50.99	386.00	384.77
58.00	55.99	391.00	389.75
61.00	60.98	396.00	394.73
66.00	65.98	401.00	399.71
71.00	70.97	406.00	404.68
76.00	75.96
81.00	80.97
86.00	85.97
91.00	90.96
96.00	95.95
101.00	100.95
106.00	105.95
111.00	110.93
116.00	115.93
121.00	120.93
126.00	125.92
131.00	130.91
136.00	135.89
141.00	140.88
146.00	145.87
151.00	150.87
156.00	155.84
161.00	160.84
166.00	165.81
171.00	170.80
176.00	175.79
181.00	180.76
186.00	185.74
191.00	190.72
196.00	195.70
201.00	200.67
206.00	205.65
211.00	210.63
216.00	215.61
221.00	220.59
226.00	225.56
231.00	230.54
236.00	235.51
241.00	240.49
246.00	245.46
251.00	250.44
256.00	255.41
261.00	260.38
266.00	265.35
271.00	270.33
276.00	275.30
281.00	280.27
286.00	285.25
291.00	290.23
296.00	295.20
301.00	300.17
306.00	305.15
311.00	310.12
316.00	315.10
321.00	320.08
326.00	325.05
331.00	330.03
336.00	335.00

3D Borehole Deviation

All figures are True Depths / displacements in metres
Target Origin
Last Plotted Depth 413.00

Plot With Respect to True North
Declination 18.1 deg East

Final Borehole Position
The last plotted depth is at
7.35 metres North
25.71 metres East
ie 29.74 metres from the origin
60 deg from True North

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-002
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	412.00 metres
Elevation Drill Floor	metres	Depth Driller	417.77 metres
Elevation Ground Level	metres	Depth Logger	412.00 metres

Weatherford

VERTICALITY ANALYSIS

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-003
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: KB, GL
Elevations: metres

Date	04-JUN-2009	
Run Number	02	
Depth Driller	70.43	metres
Depth Logger	70.01	metres
First Reading	0.00	metres
Last Reading	0.00	metres
Casing Driller	6.60	metres
Casing Logger	6.60	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 / Base		
Equipment Name		
Recorded By	C.SHUFE	11536
Witnessed By	O.CULLINGHAM	RDR

BOREHOLE RECORD

Last Edited: 07-JUN-2009 18:51

Bit Size millimetres	Depth From metres	Depth To metres
103.900	0.00	6.60
98.000	6.60	70.43

CASING RECORD

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

REMARKS

DENSITY STUCK @ 9.95 METERS. STARTED STANDARD OPERATING PROCEDURES FOR STUCK SONDE.

RETRIEVED SONDE AFTER RIG TRIPPED BACK IN OVER SONDE.

HOLE DEEMED TOO RISKY TO RESUME LOGGING SONIC AND DIPMETER.

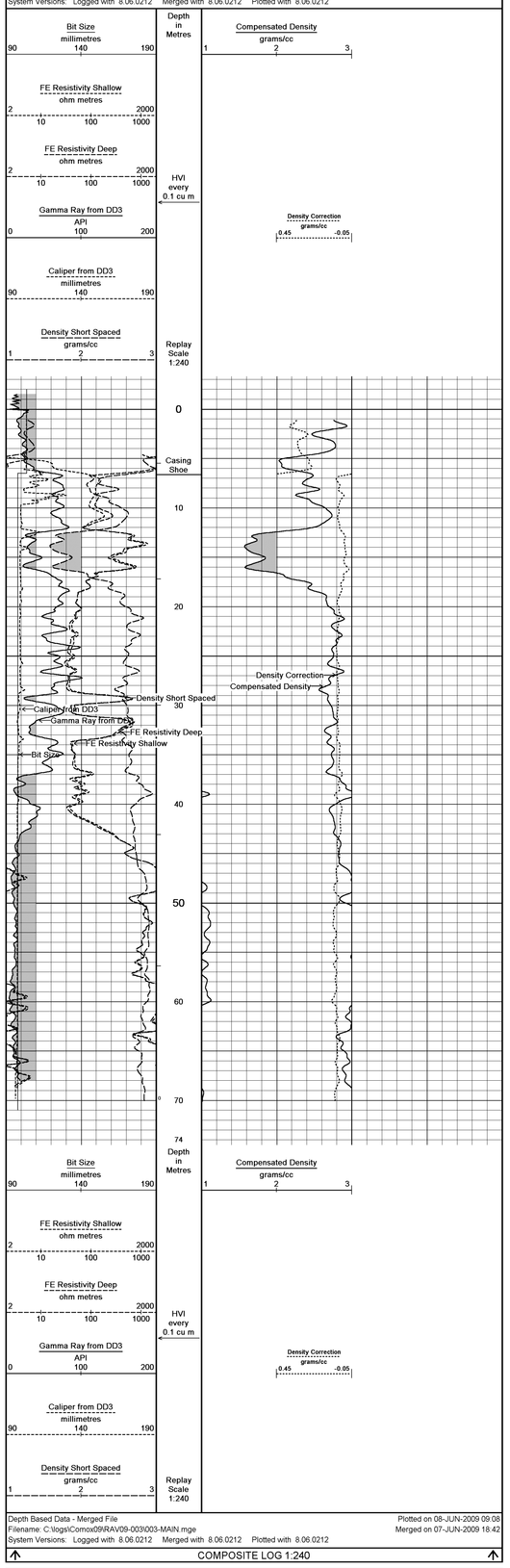
DENSITY AND RESISTIVITY LOGS ONLY

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\RAV09-003\003-MAIN.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 08-JUN-2009 09:08
Merged on 07-JUN-2009 18:42



Depth Based Data - Merged File
Filename: C:\logs\Comox09\RAV09-003\003-MAIN.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 08-JUN-2009 09:08
Merged on 07-JUN-2009 18:42

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP			
WELL	RAV09-003			
FIELD	UNDEFINED			
PROVINCE/COUNTY	BRITISH COLUMBIA			
COUNTRY/STATE	CANADA			
Elevation Kelly Bushing	metres	First Reading	70.01	metres
Elevation Drill Floor	metres	Depth Driller	69.00	metres
Elevation Ground Level	metres	Depth Logger	70.43	metres

Weatherford®

COMPOSITE COAL LOG

Company	COMPLIANCE COAL CORP
Well	RAVEN 003
Field	UNDEFINED
Province/Country	BRITISH COLUMBIA
Country/State	CANADA
Elevation: KB	0.00 metres
Elevation: Grd/ Floor	metres
Elevation: Ground Level	metres
Date	04-JUN-2009
Time	15:00
Depth Drilled	1240.00 metres
Depth Logged	1240.00 metres
Bottom Hole Temperature	25.00 degrees C
Logging Company	WEATHERFORD COAL CORP
Logging Engineer	SCHOFIELD
Logging Unit	1
Logging Truck	1
Logging Date	04-JUN-2009
Logging Time	15:00
Logging Service	COAL DETAIL LOG
Logging Mode	STATIONARY
Logging Speed	1.00 metres/minute
Logging Direction	DOWN
Logging Method	STATIONARY
Log Type	COAL LITHOLOGY
Log Type	GAMMA RAY CALIPER
Log Type	COAL DETAIL LOG
Log Type	COAL DETAIL 1:20
Log Type	BEFORE SURVEY CALIBRATION
Log Type	COAL SEAM
Log Type	REPEAT SECTION
Log Type	MAIN LOG 1:240
Log Type	MAIN LOG 1:240
Log Type	REPEAT SECTION
Log Type	COAL DETAIL 1:20
Log Type	REPEAT SECTION
Log Type	COAL DETAIL 1:20
Log Type	COAL SEAM

COAL LITHOLOGY
GAMMA RAY CALIPER
COAL DETAIL LOG

BOREHOLE RECORD

Bit Size	Depth From	Depth To
152.400	0.00	0.00
99.060	0.00	1240.00

Last Edited: 07-JUN-2009 10:53 Jack Hammer

CASING RECORD

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

REMARKS

DENSITY STUCK @ 138 METERS STARTED STANDING OPERATION PROCEDURES FOR STUCK SONDE

RETRIEVED SONDE AFTER 800 THREPED BACK IN OVER SONDE

HOLE SEEMED TOO TIGHT TO RESUME LOGGING SONIC AND OPMETER

DENSITY AND RESISTIVITY LOGS ONLY

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 as set out in our current price schedule.

MAIN LOG 1:240

Depth Scaled Data - Merged File
Filename: C:\logs\Compliance\RAVEN-003-20090603-MAIN.mgs
Software Versions - Logged with: 9.08.0212 - Merged with: 9.08.0212 - Plotted with: 3.08.0212

Plotted on 08-JUN-2009 09:00
Merged on 07-JUN-2009 16:42

Bit Size millimetres 152 190 — Depth Scale Metres 0 10 20 30 40 50 60 70 80 90 — Casing Shoe — Coal Seam — Gamma Ray from DES — Caliper from DES — Compensated Density 1.90 2.30 — Density Correction gram/cc -0.45 0.45

REPEAT SECTION

Depth Scaled Data - Merged File
Filename: C:\logs\Compliance\RAVEN-003-20090603-REPEAT.mgs
Software Versions - Logged with: 9.08.0212 - Merged with: 9.08.0212 - Plotted with: 3.08.0212

Plotted on 08-JUN-2009 09:00
Merged on 07-JUN-2009 16:42

MAIN LOG 1:240

Depth Scaled Data - Merged File
Filename: C:\logs\Compliance\RAVEN-003-20090603-MAIN.mgs
Software Versions - Logged with: 9.08.0212 - Merged with: 9.08.0212 - Plotted with: 3.08.0212

Plotted on 08-JUN-2009 09:00
Merged on 07-JUN-2009 16:42

REPEAT SECTION

Depth Scaled Data - Merged File
Filename: C:\logs\Compliance\RAVEN-003-20090603-REPEAT.mgs
Software Versions - Logged with: 9.08.0212 - Merged with: 9.08.0212 - Plotted with: 3.08.0212

Plotted on 08-JUN-2009 09:00
Merged on 07-JUN-2009 16:42

COAL DETAIL 1:20

Depth Scaled Data - Merged File
Filename: C:\logs\Compliance\RAVEN-003-20090603-DETAIL.mgs
Software Versions - Logged with: 9.08.0212 - Merged with: 9.08.0212

Plotted on 08-JUN-2009 09:00
Merged on 07-JUN-2009 16:42

Bit Size millimetres 152 190 — Depth Scale Metres 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 — FE Resistivity Deep ohm metres 2 10 — Caliper from DES millimetres 152 190 — Gamma Ray from DES API 0 150 — Density Short Spaced gram/cc 1.90 2.30

COAL SEAM

Depth Scaled Data - Merged File
Filename: C:\logs\Compliance\RAVEN-003-20090603-DETAIL.mgs
Software Versions - Logged with: 9.08.0212 - Merged with: 9.08.0212

Plotted on 08-JUN-2009 09:00
Merged on 07-JUN-2009 16:42

BEFORE SURVEY CALIBRATION

C:\logs\Compliance\RAVEN-003-20090603-MAIN.dfs

Last Edited on 04-JUN-2009 21:53

General Constants: All DDD

General Parameters	
Mud Resistivity	3.210 ohm-metres
Mud Resistivity Temperature	25.000 degrees C
Water Level	0.000 metres
Density Calibration Processing	Water Level Calibration
Gain/Noise/Hole Volume and Differential Caliper Parameters	
HAV1 Caliper 1	Caliper from DES
HAV2 Caliper 2	Caliper from DES
HAV3 Caliper 3 Diameter	Caliper from DES mm
Caliper for Differential Caliper	Caliper from DES
Raw Parameters	
Density Raw	NPI
Resistivity Raw	NPI
SWN Channel A	NPI
SWN Channel B	NPI

Gamma Calibration: DDB 001

	Measured	Calibrated (API)
Background	0	0.0
Calibrator (Low)	137	42
Calibrator (Hot)	275	436

Gamma Constants: DDB 001 — Last Edited on 21-MAY-2009 15:46

Gamma Calibrator Number: 425 — Base Calibration on 08-JUN-2009 17:39 Field Check on

Density Calibration: DDB 001

Base Calibration	Measured	Calibrated (sdu)
Mid Hole	1.90	2.00
Reference 1	2.30	2.30
Reference 2	0	0
Dry Hole	Measured	Calibrated (sdu)
Reference 1	2.65	2.65
Reference 2	0	0
Field Check at Base		Calibrated (sdu)
		0.0
Field Check		Calibrated (sdu)
		0.0

Density Constants: DDB 001 — Last Edited on 08-JUN-2009 17:39

Processing Type	DDB
Density Raw	5114.0
Extension Calibrator Number	1.11
Density Calibration Processing	Calibration Table
Gamma Strip Coefficient	0.55
Mud Density	1.11 gm/cc
Hole Fluid Density	1.00 gm/cc
SWN Enabled	1.100
Density Calibration	
Matrix density (gm/cc)	Depth (m)
2.0	0.00
2.0	0.00
2.0	0.00
2.0	0.00
2.0	0.00
2.0	0.00
2.0	0.00

Mid Hole Normalization

	Measured g/cc	Calibrated g/cc
MID Point 1	1.90	1.90
MID Point 2	1.90	1.90
MID Point 3	1.90	1.90
MID Point 4	1.90	1.90

Dry Hole Normalization

	Measured g/cc	Calibrated g/cc
MID Point 1	1.90	1.90
MID Point 2	1.90	1.90
MID Point 3	1.90	1.90
MID Point 4	1.90	1.90

Caliper Calibration: DDB 001

Base Calibration on 08-JUN-2009 21:33 Field Calibration on

Calibration Table			
Sequence	Measured	Calibrated Size (mm)	
1	1900	19.30	
2	3900	39.60	
3	7800	157.50	
4	15600	157.50	
5	3526	200.20	
6	3526	254.00	

Field Calibration

	Measured	Calibrated (mm-in)
Shallow	3526	200.20
Deep	4490.0	254.0
Hole Size	3526.0	139.0

FE Calibration: RRS 544

Field Calibration on 04-JUN-2009 21:33

	Measured	Calibrated (ohm-m)
Shallow	0.0	0.0
Deep	4490.0	2.0
Hole Size	3526.0	139.0

Resistivity Calibration: RRS 544

FE Constant PENV (deep = shallow)	2.100
RE Constant PENV (deep = shallow)	1.100

Gamma Calibration: RRS 544 — Last Edited on 21-MAY-2009 15:47

Field Calibration on 04-JUN-2009 21:33

	Measured	Calibrated (API)
Background	16	20
Calibrator (Low)	275	42
Calibrator (Hot)	1	436

Gamma Constants: RRS 544 — Last Edited on 21-MAY-2009 15:47

Gamma Calibrator Number: 425

Resistivity Tool Constants: RRS 544

Last Edited on 04-JUN-2009 21:33

Mode	FE Mode
Sonde Resistivity on Tool (ohm)	1000.000

Company	COMPLIANCE COAL CORP
Well	RAVEN 003
Field	UNDEFINED
Province/Country	BRITISH COLUMBIA
Country/State	CANADA
Elevation: KB	0.00 metres
Elevation: Grd/ Floor	metres
Elevation: Ground Level	metres
Date	04-JUN-2009
Time	15:00
Depth Drilled	1240.00 metres
Depth Logged	1240.00 metres
Bottom Hole Temperature	25.00 degrees C
Logging Company	WEATHERFORD COAL CORP
Logging Engineer	SCHOFIELD
Logging Unit	1
Logging Truck	1
Logging Date	04-JUN-2009
Logging Time	15:00
Logging Service	COAL DETAIL LOG
Logging Mode	STATIONARY
Logging Speed	1.00 metres/minute
Logging Direction	DOWN
Logging Method	STATIONARY
Log Type	COAL LITHOLOGY
Log Type	GAMMA RAY CALIPER
Log Type	COAL DETAIL LOG

Weatherford

COAL LITHOLOGY
GAMMA RAY CALIPER
COAL DETAIL LOG

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-003
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
UWI	

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

Elevations: metres
KB
DF
GL

Date	04-JUN-2009	
Run Number	1	
Depth Driller	69.00	metres
Depth Logger	70.43	metres
First Reading	70.01	metres
Last Reading	0.00	metres
Casing Driller	6.00	metres
Casing Logger	6.60	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	RR5/DD6	544/691
Equipment / Base	11536	RDR
Recorded By	C.SHUPE	
Witnessed By	O.CULLINGHAM	

BOREHOLE RECORD

Last Edited: 07-JUN-2009 18:51

Bit Size millimetres	Depth From metres	Depth To metres
103.900	0.00	6.60
98.000	6.60	70.43

CASING RECORD

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

REMARKS

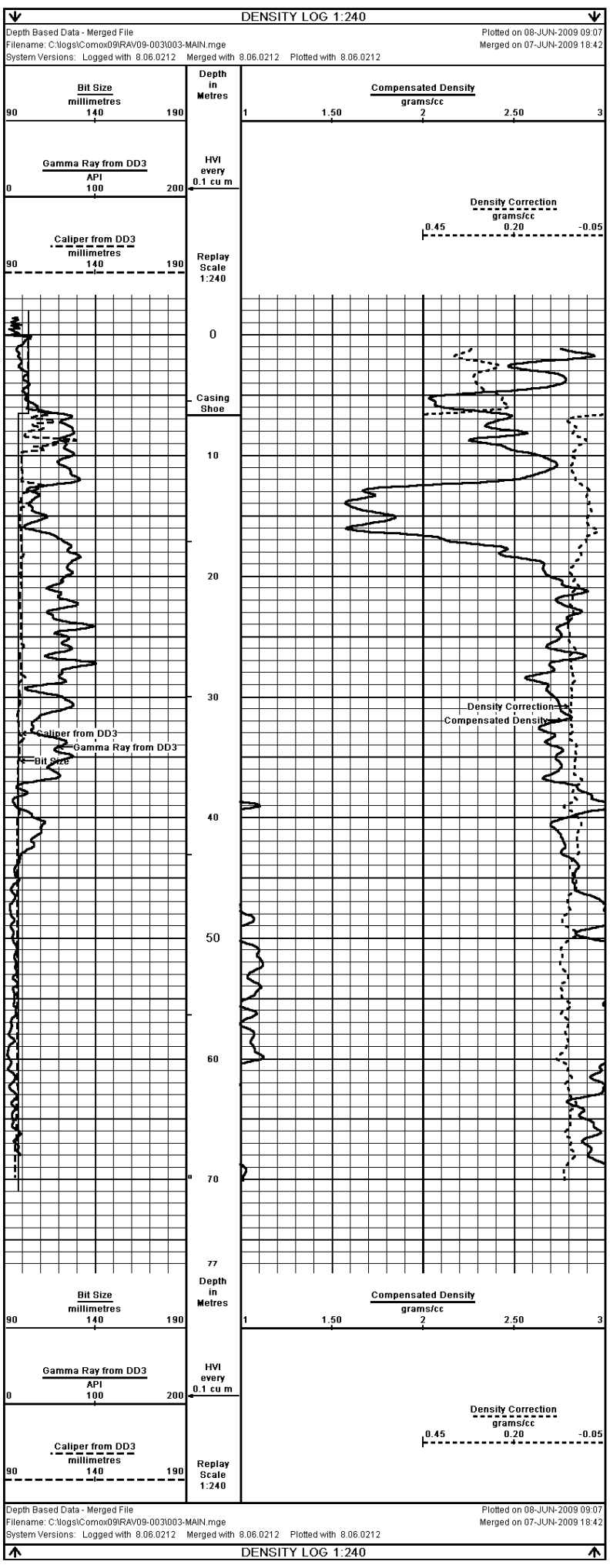
DENSITY STUCK @ 9.95 METERS. STARTED STANDARD OPERATING PROCEDURES FOR STUCK SONDE.

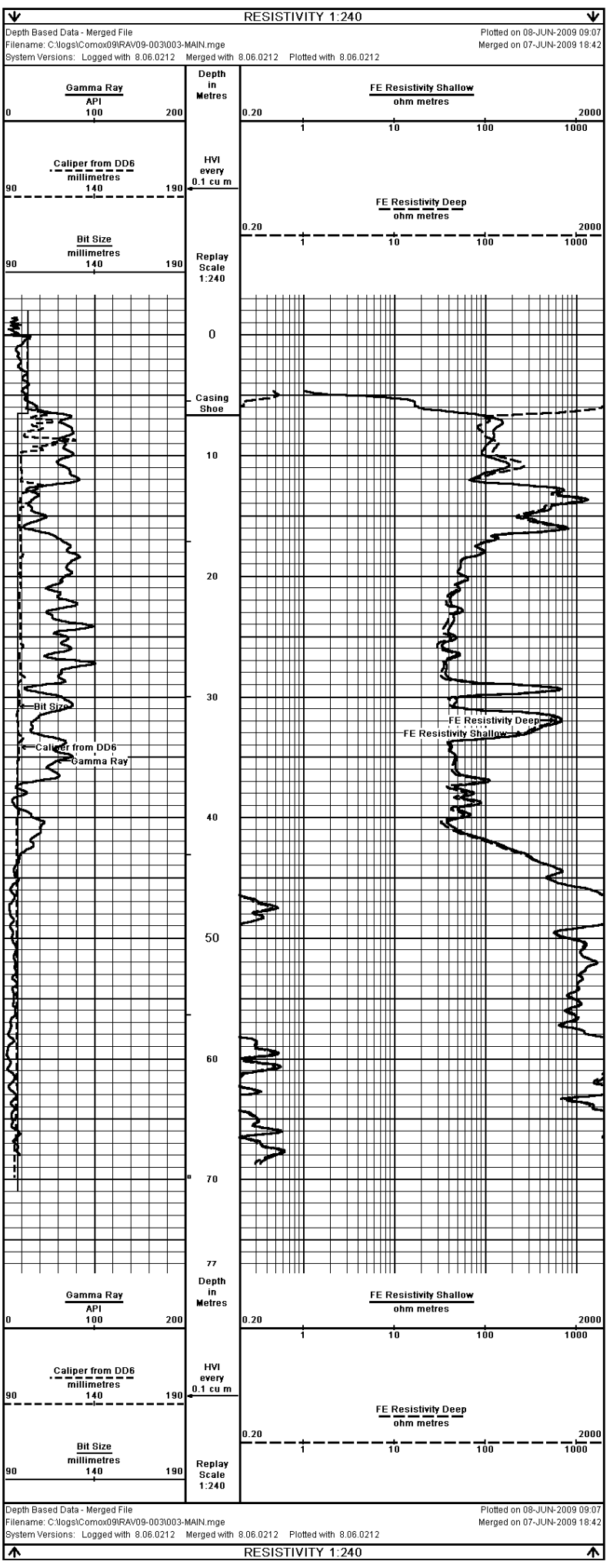
RETRIEVED SONDE AFTER RIG TRIPPED BACK IN OVER SONDE.

HOLE DEEMED TOO RISKY TO RESUME LOGGING SONIC AND DIPMETER.

DENSITY AND RESISTIVITY LOGS ONLY

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	RAV09-003			
FIELD	UNDEFINED			
PROVINCE/COUNTY	BRITISH COLUMBIA			
COUNTRY/STATE	CANADA			
Elevation Kelly Bushing	metres	First Reading	70.01	metres
Elevation Drill Floor	metres	Depth Driller	69.00	metres
Elevation Ground Level	metres	Depth Logger	70.43	metres

Weatherford®

MINI PLOT

| Logging Company | Logging Date | Max. Temp. | Depth Logged | Depth Logged | Depth Logged

COMPOSITE COAL LOG

COMPANY: COMPLIANCE COAL CORP
WELL: RAV09-004
FIELD: UNDEFINED
PROVINCE/COUNTY: BRITISH COLUMBIA
COUNTRY/STATE: CANADA

Depth Datum	metres	Elevation	metres	Depth Reference	Ground Level
Elevation Grid Point	metres	Elevation Ground Level	metres	Log Datum	Rotary Table

Log Run	1	Date	17-JUN-2009	Time	22:40
Logging Company	Schlumberger	Logging Engineer	Bussey	Operating Rig Time	0:00
Logging Unit Number	3	Logging Truck	3	Logging Equipment	2
Logging Equipment Type	MAXIS 500	Logging Equipment Serial No.	1	Logging Equipment Software Version	4.1
Logging Equipment Software Version	4.1	Logging Equipment Software Version	4.

Schlumberger

Company Petroleum Development Oman LLC
Well Nimr-1
Field Nimr
Country Sultanate of Oman

Depth Reference Kelly Bushing 1000.00 m
Elevation Kelly Bushing 1000.00 m
Ground Level 1000.00 m

Log Measured From Kelly Bushing 1000.00 m
Drilling Measured From Kelly Bushing 1000.00 m

Log Date 2-Jan-2006
Log Number 1
Run Number 1
Depth Unit m

Logging Speed 1800 m/h
Time Since Circulation 1.5 hours
Time Since Circulation 1.5 hours
Max Recorded Temperature 100 degC
Max Recorded Temperature 100 degC
Bottom Log Interval 1000.00 m
Top Log Interval 1000.00 m

Casing Schlumberger 1000.00 m
Bit Size 1000.00 mm

Type of Fluid in Hole Water
Salinity 0 ppm
Density 1.00 g/cm3
Viscosity 1.00 mPa.s
PH 7.0
Fluid Loss 0 cm3
Source of Sample Flowline
Rm at Measured Temperature 0.000 ohm.m
Rmf at Measured Temperature 0.000 ohm.m
Rmc at Measured Temperature 0.000 ohm.m
Rm at BHT 0.000 ohm.m
Rmf at BHT 0.000 ohm.m
Rmc at BHT 0.000 ohm.m
Source Rmf Measured
Source Rmc Measured
Rm at Surface 0.000 ohm.m
Rmf at Surface 0.000 ohm.m
**Rmc at Surface

DIPMETER ANALYSIS

COMPANY COMPLIANCE COAL CORP
WELL RAVISI-004
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Elevation Kelly Bushing	metres	First Reading	307.01 metres
Elevation Drill Floor	metres	Depth Driller	309.10 metres
Elevation Ground Level	metres	Depth Logged	309.10 metres

BOREHOLE RECORD

Bit Size millimetres	Depth From metres	Depth To metres
152.00	0.00	74.70
101.00	74.70	309.10

Last Edited: 17-JUN-2009 01:35

CASING RECORD

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

REMARKS

LFH, SDE, DIPS, MRD, VWWQD, SCRWVER
DIPMETER STOPPED AT 309M DUE TO WASHOUT BELOW CASING

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 standard terms and conditions set forth in our price schedule.

MAIN LOG 1:240

Depth Based Data - Maximum Sampling Increment: 10.0cm
Filename: C:\logs\ComplianceRAVISI-004\SDEP 428-397-W.dlis
Dipmeter Interpretation - Logged with: 4.28.2012 Plotted with: 6.06.0212

Plotted on 17-JUN-2009 02:20
Recorded on 16-JUN-2009 23:34

General Pad 1 Caliper
General Pad 2 Caliper
Bit Size
Depth in Metres
Formation Dip Azimuth in Degrees
Dip Parameters
Vertically Twisted Declination Angle
Rose Diagram every major division
Display Scale 1:240

REPEAT SECTION

Depth Based Data - Maximum Sampling Increment: 10.0cm
Filename: C:\logs\ComplianceRAVISI-004\SDEP 428-397-R.dlis
Dipmeter Interpretation - Logged with: 4.28.2012 Plotted with: 6.06.0212

Plotted on 17-JUN-2009 02:20
Recorded on 16-JUN-2009 23:34

BEFORE SURVEY CALIBRATION

C:\logs\ComplianceRAVISI-004\SDEP 428-397-W.dlis

General Constants: All 0000

Last Edited on 04-JUN-2009 13:12

General Parameters			
Mud Density	3.710	g/cm cubicmetre	
Mud Resistivity Temperature	20.000	degrees C	
Mud Resistivity	0.000	ohmm	
Density/Neutron Processing	Water Level Switch		
Hole/Pressure Volume and Differential Caliper Parameters			
HRA: Caliper 1	General Pad 1 Caliper		
HRA: Caliper 2	General Pad 2 Caliper		
HRA: Hole Diameter	152.000	mm	
Caliper for Differential Caliper	General Pad 1 Caliper		
Raw Parameters			
Density Log	N/A		
Resistivity Log	N/A		
SWA Contrast A	N/A		
SWA Contrast B	N/A		

Synthetic Geometry Constants: VS4 207

Last Edited on 16-JUN-2009 08:53

	Diameter		
Configuration	16.10	degrees	East
Magnetic Declination			

Magnetometer Parameters: VS4 207

Last Edited on 16-JUN-2009 08:53

	X Magnetometer	Y Magnetometer	Z Magnetometer
Maximum	215.000	214.000	196.000
Minimum	143.000	142.000	143.000

Level Cell Calibration: VS4 207

Field Calibration on 16-JUN-2009,09:04
Y Axis

Cell 1 Counts	Cell 2 Counts	Tilt (degrees)	Cell 1 Counts	Cell 2 Counts	Tilt (degrees)
113.00	115.00	0.00	264.00	264.00	0.00
134.00	134.00	-15.00	272.00	271.00	10.00
147.00	147.00	-30.00	279.00	278.00	20.00
158.00	158.00	-45.00	291.00	289.00	30.00
167.00	167.00	-60.00	302.00	300.00	40.00
167.00	168.00	-6.00	0.00	0.00	0.00
167.00	169.00	0.00	0.00	0.00	0.00
168.00	173.00	2.00	0.00	0.00	0.00
167.00	180.00	3.00	0.00	0.00	0.00
167.00	189.00	4.00	0.00	0.00	0.00
167.00	200.00	5.00	0.00	0.00	0.00

Diameter Constants: SGD 428

Last Edited on 16-JUN-2009,09:03

Search Angle	45.00	degrees
Correlation Interval	2.00	metres
Correlation Window	0.50	metres
Caliper used in Calculations	Yes	
Use Caliper for Hole Strength	Yes	

Caliper Calibration: SGD 428

Base Calibration on 16-JUN-2009,09:03

Reading No.	Measured X Reading	Measured Y Reading	Calibrated Size (mm)
1	113	115	152.00
2	417	429	127.00
3	487	475	101.00
4	585	573	203.00
5	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

Caliper Constants: SGD 428

Last Edited on 16-JUN-2009,09:03

Calibration Difference Tol. 0000.0	3.000 mm

Gamma Calibration: SGD 428

Field Calibration on 16-JUN-2009,09:03

	Measured API	Calibrated (API)
Background	0	0
Calibrator (Gross)	125	473
Calibrator (Net)	125	436

Gamma Constants: SGD 428

Last Edited on 21-MAY-2009,11:38

Gamma Calibrator Number	425

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-004		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres		
Elevation Drill Floor	metres		
Elevation Ground Level	metres		

Geotechnical Instrumentation Real-Time Data

Project: Sample Project
Location: Sample Location
Instrument: Sample Instrument
Reading Date: Sample Reading Date

Generated: 2025-12-31 23:59:59

Data Source: Sample Data Source

Data Collection Method: Sample Data Collection Method

Data Quality Control: Sample Data Quality Control

Data Quality Control Method: Sample Data Quality Control Method

Data Quality Control Date: Sample Data Quality Control Date

Data Quality Control Comments: Sample Data Quality Control Comments

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DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

COMPANY COMPLIANCE COAL CORP
WELL RAVEN-004
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Weatherford

Log Date	2009-09-17	Field Time	08:01 metres
Run Number	1	Depth Unit	0.00 - 216.00 metres
Depth Reference	Gamma	Depth Logged	216.00 metres

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

COMPANY COMPLIANCE COAL CORP
WELL RAVEN-004
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Log Date	2009-09-17	Field Time	08:01 metres
Run Number	1	Depth Unit	0.00 - 216.00 metres
Depth Reference	Gamma	Depth Logged	216.00 metres

BOREHOLE RECORD			Last Entry 17-JUN-2009 Dr
Bit Size	Depth From		Depth To
152.4 mm	0.00		216.00
152.4 mm	0.00		216.00

CASING RECORD			
Type	Size	Weight	Grade
Casing	168.3 mm	34.00 kg/m	H40

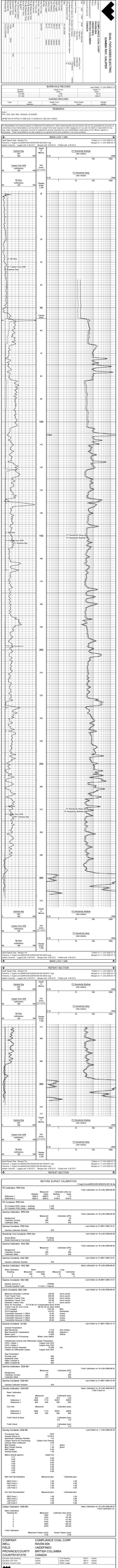
Drop Depth	Height
0.00	0.00

REMARKS

RUN 1
DFE 2004: CWN, WBS, KNMGD, SCANNER

CAMERA DATA UNAVAILABLE AT REPEAT SECTION BELOW CAVING

All interpretations, opinions (expressed or otherwise) from whatever or other reasonably(and are warmly) are for our guarantee the accuracy or completeness of the information, and we shall not be liable for any loss of profit or other damages in or out, and in no way for any consequential damages, which may be suffered by the recipient of any information herein. Our liability is limited to the value of the interpretations. These interpretations are subject to our general terms and conditions in our price schedule.


MAIN LOG 1 (34)
Depth Based Data - Merged File
Filename: C:\logs\Canada\RAVEN-004\RAVEN-004 DEN GRN.log
Date/Time Generated: Logged with 10.06.0012 Wednesday 09-JUN-2010 Printed with 3.06.0012
Printed: 11-JUN-2009 02:16
Merged: 11-JUN-2009 02:16
Gamma Ray
Caliper from 2009
Bit Size
Gamma Ray
FE Resistivity Shallow
FE Resistivity Deep
Depth
Depth Scale: 1:240
Gamma Ray
FE Resistivity Shallow
FE Resistivity Deep
Caliper from 2009
Bit Size

COMPANY	COMPLIANCE COAL CORP
WELL	CHARLIE 1
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Service Company	Weatherford
Logging Date	2009-03-18
Logging Unit	3
Logging Engineer	Dave Hamilton
Witnessed By	Dave Hamilton
Depth Reference	KB
Elevation	1000.00 m
Log Type	85CM COMPENSATED SONIC
Log Run	1
Log Interval	0.0 - 1000.0 m
Log Date	2009-03-18
Log Time	14:00
Log Direction	Down
Log Speed	10.0 m/min
Log Scale	1:200
Log Version	1
Log Number	1
Log Comment	

85CM COMPENSATED SONIC

BOREHOLE RECORD

Bit Size	Last Date	Last Depth
152.4 mm	2009-03-18	1000.0 m

CASING RECORD

Type	Size	Depth	Weight
Surface Casing	244.5 mm	15.0 m	59.5 kg/m

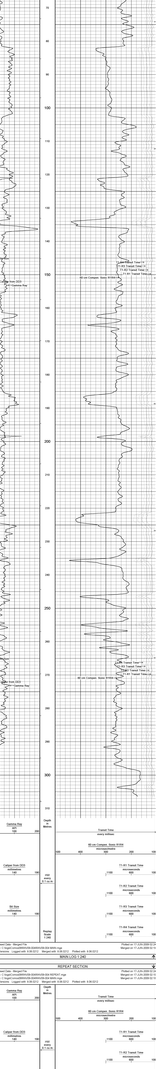
REMARKS

RIG: DJL 200, MUD: DENSE, SLAMMER
OPERATOR STOPPED AT 998.5M DUE TO MAYHEM AT 985.0M (CAVING)

DT1 Monitoring are quality based on Minimum Error and not on Max Independent Error and are not for quantitative accuracy or comparison purposes. Quality Control Limits are based on Borehole Size, Lithology, Porosity and Hole Condition. Poor Quality DT1 Data Ranges are flagged in the Quality Control Log and should not be used in any analysis. Compressional Velocity Ranges are: Fast > 5.0 km/s, Normal 1.5 - 5.0 km/s, Slow 0.5 - 1.5 km/s, Very Slow < 0.5 km/s

MAIN LOG 1:200

Field Depth Corrections - Merged File
Volume: C:\Logs\Locus\85CM-COMPENSATED-SONIC\0001.mpr
Date/Time Stamp: 2009-03-18 14:00:00 Depth Reference: KB
Sensor Selection: Logged with 3-08-0310 Model:gmt-sdn 3-08-0310 Probe:gmt- 3-08-0310


Interpretation Marks
Caribou Formation 1000.0 m
Top Caribou
Top Stoddart
Coaling Rigs
Coaling Rigs
Caribou Formation 1000.0 m
Top Caribou
Top Stoddart
Coaling Rigs
Coaling Rigs
Caribou Formation 1000.0 m
Top Caribou
Top Stoddart
Coaling Rigs
Coaling Rigs
Caribou Formation 1000.0 m
Top Caribou
Top Stoddart
Coaling Rigs
Coaling Rigs
Transit Time
Heavy Attenuation
85 cm Compen. Sonic 85/90
Transit Time
Attenuation
CT-R1 Transit Time
CT-R1 Transit Time
Attenuation
CT-R2 Transit Time
CT-R2 Transit Time
Attenuation
Borehole Diameter
Caliper
Gamma Ray
Gamma Ray
Caliper
Gamma Ray
Gamma Ray
Caliper
Gamma Ray
Gamma Ray

VERTICALITY ANALYSIS

COMPANY COMPLIANCE COAL CORP
WELL RAV09-004
FIELD UNDEFINED
PROVINCE/COUNTRY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Elevation Kelly Bushing	metres	First Reading	307.01 metres
Elevation Drill Floor	metres	Depth Driller	308.51 metres
Elevation Ground Level	metres	Depth Logger	308.51 metres

Weatherford VERTICALITY ANALYSIS

BOREHOLE RECORD

Last Edited: 17-JUN-2009 01:30

Bit Size	Depth From	Depth To
Millimetres	Metres	Metres
157.500	0.00	54.75
101.300	54.75	308.51

CASING RECORD

Type	Size Millimetres	Depth From Metres	Depth To Metres	Shoe Depth Metres	Weight Kg/metre

REMARKS

RUN 1
DPS, DDL, DIN, WBC VSWSQC SCANNER

DPMETER STOPPED AT 6M DUE TO WAKHOUT BELOW CASING

Verticality Analysis Interpretation Notes

17-JUN-2009 02:10

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 1:6000(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, 20, 50 or 100 overshots 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 described by the complete data set. Some sections of the borehole, away from the influence of any unusual magnetic effects, (as the azimuth calculations are derived from three solid state magnetometers), the azimuths 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).

Borehole positional error is derived assuming the following parameters.

	TILT (degrees)		AZIMUTH (degrees)
Typical Error	+/- 0.3333		+/- 10.0000
Maximum Error	+/- 0.5000		+/- 15.0000

Error analysis may be calculated and plotted from the data listing as follows:

a) Plot the four coordinates from the error listing (based upon zero azimuth error) on a target plot. Origin at the start of the analysis

b) Describe area of +/- 10.00 degrees and +/- 15.00 degrees (centre at the origin) through the inner and outer points respectively

c) Connect the respective arcs together with straight lines to give the typical and maximum borehole positional error.

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.
ABSAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	The polar or radial coordinates of the borehole.
ERROR COORDINATES	The polar coordinates corresponding to the typical and maximum tilt error.

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\Canada09\RAV09-0040\DPI-428-2017.ME.dps
All Co-ordinates With Respect To True North, all depths in metres
Final Depth 57.60, 0.00 North, 0.00 East of Origin

Date Processed 17-JUN-2009
Date Log/File 06-JUN-09 01:00

DEPTHS		BOREHOLE ABSAL CO-ORDS			POLAR		POLAR ERROR CO-ORDINATES (MAXIMUM & TYPICAL)					
Log	True	Tilt	Azi	North	East	Seg Rlative	Rng Radius	Brg Radius	Rng Radius	Brg Radius	Rng Radius	Brg Radius
0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61.00	61.00	0.3	346.4	0.05	-0.01	0.01	0.01	291.5	0.01	291.5	0.01	0.00
63.00	63.00	0.0	198.1	0.00	-0.02	0.04	0.02	284.7	0.06	104.1	0.03	284.7
65.00	65.00	0.3	198.1	0.02	-0.02	0.04	0.02	284.7	0.06	104.1	0.03	284.7
67.00	67.00	0.3	158.1	0.01	-0.01	0.02	0.01	291.5	0.05	299.1	0.02	291.5
69.00	69.00	0.3	26.8	0.01	-0.01	293	0.04	293	0.13	113	0.06	293
71.00	71.00	0.3	26.8	0.02	0.00	0.02	0.04	0.13	0.13	0.06	293	0.10
73.00	73.00	0.3	26.8	0.03	0.01	0.04	0.05	0.13	0.13	0.06	293	0.10
75.00	75.00	0.3	357.0	0.03	-0.00	362	0.06	303	0.21	122	0.08	302
77.00	77.00	0.3	357.0	0.04	-0.00	0.06	0.06	303	0.21	122	0.08	302
79.00	79.00	0.3	357.0	0.05	-0.00	0.07	0.06	303	0.21	122	0.08	302
81.00	81.00	0.3	331.0	0.05	-0.06	0.06	0.08	0.26	0.26	0.12	306	0.22
83.00	83.00	0.3	331.0	0.06	-0.07	0.08	0.09	0.26	0.26	0.12	306	0.22
85.00	85.00	0.3	199.1	0.06	-0.08	302	0.10	302	0.33	127	0.14	302
87.00	87.00	0.3	199.1	0.05	-0.09	0.09	0.10	302	0.33	127	0.14	302
89.00	89.00	0.3	289.4	0.07	-0.09	307	0.11	307	0.39	127	0.16	307
91.00	91.00	0.3	291.8	0.07	-0.10	307	0.12	307	0.41	127	0.17	307
93.00	93.00	0.3	291.8	0.08	-0.11	307	0.13	307	0.44	127	0.18	307
95.00	95.00	0.3	216.1	0.08	-0.12	0.14	306	0.47	126	0.19	306	0.36
97.00	97.00	0.3	358.6	0.09	-0.12	306	0.15	306	0.49	126	0.19	306
99.00	99.00	0.3	358.6	0.09	-0.12	306	0.15	306	0.49	126	0.19	306
101.00	101.00	0.4	358.1	0.10	-0.12	306	0.17	306	0.54	126	0.21	306
103.00	103.00	0.3	334.4	0.10	-0.14	307	0.18	307	0.57	127	0.22	307
105.00	105.00	0.3	334.4	0.11	-0.15	307	0.19	307	0.60	127	0.23	307
107.00	107.00	0.3	18.5	0.12	-0.14	307	0.20	307	0.62	127	0.24	307
109.00	109.00	0.0	18.1	0.12	-0.16	308	0.20	308	0.65	126	0.25	308
111.00	111.00	0.3	13.2	0.13	-0.16	308	0.21	308	0.67	126	0.26	308
113.00	113.00	0.3	13.2	0.14	-0.16	308	0.22	308	0.70	126	0.27	308
115.00	115.00	0.3	13.2	0.14	-0.17	308	0.22	309	0.72	126	0.28	308
117.00	117.00	0.3	341.1	0.15	-0.18	310	0.23	310	0.75	126	0.29	310
119.00	119.00	0.3	341.1	0.16	-0.19	310	0.24	310	0.77	126	0.30	310
121.00	121.00	0.3	341.1	0.16	-0.19	311	0.25	311	0.80	131	0.30	311
123.00	123.00	0.3	289.4	0.17	-0.20	311	0.26	311	0.82	131	0.31	311
125.00	125.00	0.4	289.4	0.17	-0.06	307	0.11	307	0.39	127	0.16	307
127.00	127.00	0.3	316.7	0.19	-0.20	313	0.28	313	0.88	133	0.33	313
129.00	129.00	0.3	316.7	0.19	-0.21	313	0.29	313	0.91	133	0.34	313
131.00	131.00	0.3	316.7	0.20	-0.21	313	0.29	313	0.93	133	0.35	313
133.00	133.00	0.3	20.0	0.21	-0.20	314	0.30	314	0.96	134	0.35	314
135.00	135.00	0.4	20.0	0.22	-0.19	314	0.31	314	0.98	134	0.36	314
137.00	137.00	0.4	346.5	0.23	-0.20	315	0.32	315	1.01	134	0.37	315
139.00	139.00	0.4	346.5	0.24	-0.23	316	0.34	316	1.04	134	0.37	316
141.00	141.00	0.3	332.3	0.25	-0.24	317	0.35	317	1.07	134	0.38	317
143.00	143.00	0.6	332.3	0.26	-0.24	317	0.36	317	1.10	137	0.39	317
145.00	145.00	0.3	332.3	0.27	-0.25	317	0.37	317	1.13	137	0.40	317
147.00	147.00	0.3	313.6	0.28	-0.26	317	0.38	317	1.15	137	0.38	317
149.00	149.00	0.4	348.3	0.30	-0.26	318	0.40	318	1.19	138	0.40	318
151.00	151.00	0.4	348.3	0.31	-0.27	319	0.41	319	1.22	138	0.41	319
153.00	153.00	0.3	317.2	0.32	-0.28	319	0.43	319	1.25	138	0.42	319
155.00	155.00	0.6	342.0	0.34	-0.29	319	0.44	319	1.29	139	0.43	319
157.00	157.00	0.3	342.0	0.35	-0.30	319	0.46	319	1.32	139	0.44	319
159.00	159.00	0.3	342.0	0.36	-0.31	319	0.47	319	1.35	139	0.45	319
161.00	161.00	0.6	336.9	0.37	-0.33	319	0.49	319	1.39	139	0.47	319
163.00	163.00	0.3	336.9	0.38	-0.34	319	0.51	319	1.42	139	0.48	319
165.00	165.00	0.3	320.5	0.39	-0.35	319	0.52	319	1.45	139	0.49	319
167.00	167.00	0.3	312.2	0.41	-0.35	319	0.54	319	1.49	139	0.49	319
169.00	169.00	0.3	312.2	0.42	-0.36	319	0.55	319	1.52	139	0.50	319
171.00	171.00	0.3	287.0	0.43	-0.37	319	0.57	319	1.55	139	0.51	319
173.00	173.00	0.3	287.0	0.44	-0.39	319	0.58	319	1.59	139	0.52	319
175.00	175.00	0.3	287.0	0.45	-0.40	319	0.60	319	1.62	139	0.53	319
177.00	177.00	0.3	326.8	0.46	-0.41	319	0.61	319	1.65	139	0.54	319
179.00	179.00	0.4	310.4	0.47	-0.42	318	0.63	318	1.69	138	0.43	318
181.00	181.00	0.3	310.4	0.48	-0.43	318	0.64	318	1.72	138	0.44	318
183.00	183.00	0.3	326.8	0.49	-0.44	318	0.66	318	1.75	138	0.45	318
185.00	185.00	0.6	336.5	0.50	-0.45	319	0.67	319	1.79	139	0.44	319
187.00	187.00	0.3	336.5	0.51	-0.46	319	0.69	319	1.82	139	0.45	319
189.00	189.00	0.3	320.5	0.52	-0.47	319	0.71	319	1.84	137	0.46	319
191.00	191.00	0.3	317.0	0.53	-0.48	317	0.71	317	1.88	137	0.45	317
193.00	193.00	0.3	317.0	0.54	-0.49	317	0.73	317	1.91	137	0.46	317
195.00	195.00	0.3	330.3	0.55	-0.50	317	0.74	317	1.94	137	0.47	317
197.00	197.00	0.3	330.3	0.56	-0.51	317	0.76	317	1.97	137	0.48	317
199.00	199.00	0.3	330.3	0.57	-0.52	317	0.77	317	2.00	137	0.49	317
201.00	201.00	0.4	336.3	0.57	-0.53	317	0.78	317	2.03	137	0.47	317
203.00	203.00	0.4	336.3	0.58	-0.54	317	0.80	317	2.06	137	0.48	317
205.00	205.00	0.4	336.3	0.59	-0.55	317	0.81	317	2.10	137	0.47	317
207.00	207.00	0.4	317.5	0.60	-0.56	317	0.83	317	2.13	137	0.49	317
209.00	209.00	0.4	317.5	0.61	-0.57	317	0.85	317	2.16	137	0.50	317
211.00	211.00	0.4	326.8	0.62	-0.58	317	0.86	317	2.19	137	0.49	317
213.00	213.00	0.4	346.6	0.63	-0.58	317	0.87	317	2.22	137	0.49	317
215.00	215.00	0.4	346.6	0.64	-0.59	317	0.89	317	2.25	137	0.50	317
217.00	217.00	0.4	346.6	0.65	-0.60	317	0.90	317	2.29	137	0.49	317
219.00	219.00	0.6	326.8	0.67	-0.63	317	0.91	317	2.32	137	0.49	317
221.00	221.00	0.4	326.8	0.68	-0.64	317	0.93	317	2.35	137	0.50	317
223.00	223.00	0.4	352.4	0.69	-0.65	317	0.94	317	2.38	137	0.50	317
225.00	225.00	0.4	352.4	0.71	-0.65	318	0.96	318	2.42	138	0.50	318
227.00	227.00	0.4	352.4	0.72	-0.66	318	0.97	318	2.45	138	0.50	318
229.00	229.00	0.4	333.2	0.73	-0.67	318	0.99	318	2.48	138	0.50	318
231.00	231.00	0.4	333.2	0.74	-0.68	318	1.01	318	2.52	138	0.50	318
233.00	233.00	0.4	333.2	0.75	-0.69	318	1.02	318	2.55	138	0.50	318
235.00	235.00	0.4	333.2	0.76	-0.70	318	1.04	318	2.58	138	0.50	318
237.00	237.00	0.4	312.0	0.78	-0.71	318	1.06	318	2.62	138	0.51	318
239.00	239.00	0.4	312.0	0.79	-0.73	318	1.07	318	2.65	138	0.51	318
241.00	241.00	0.4	312.0	0.80	-0.74	318	1.09	318	2.68	138	0.51	318
243.00	243.00	0.4	291.9	0.82	-0.75	317	1.11	317	2.73	137	0.51	317
245.00	245.00	0.4	291.9	0.83	-0.77	317	1.12	317	2.77	137	0.51	317
247.00	247.00	0.4	291.9	0.84	-0.78	317	1.14	317	2.80	137	0.51	317
249.00	249.00	0.6	345.2	0.86	-0.79	318	1.16	318	2.83	138	0.50	318
251.00	251.00	0.4	345.2	0.87	-0.80	318	1.18	318	2.87	138	0.50	318
253.00	253.00	0.6	333.5	0.88	-0.81	317	1.20	317	2.90	137	0.49	317
255.00	255.00	0.4	333.5	0.90	-0.82	317	1.21	317	2.94	137	0.50	317
257.00	257.00	0.4	345.4	0.91	-0.83	317	1.23	317	2.97	137	0.49	317
259.00	259.00	0.6	318.6	0.93	-0.86	317	1.27	317	3.02	137	0.49	317
261.00	261.00	0.4	318.6	0.94	-0.87	317	1.29	317	3.06	137	0.49	317
263.00	263.00	0.4	318.6	0.95	-0.88	317	1.31	317	3.09	137	0.49	317
264.99	264.99	0.6	339.2	0.97	-0.91	317	1.33	317	3.14	137	0.49	317
266.99	266.99	0.4	339.2	0.98	-0.92	317	1.35	317	3.17	137	0.49	317
268.99	268.99	0.4	339.2	0.99	-0.93	317	1.37	317	3.21	137	0.49	317
271.00	270.99	0.6	344.1	1.02	-0.96	317	1.40	317	3.26	137	0.48	317
273.00	272.99	0.4	344.1	1.03	-0.97	317	1.42	317	3.29	137	0.48	317
275.00	274.99	0.4	344.1	1.04	-0.98	317	1.44	317	3.33	137	0.48	317
277.00	276.99	0.6	299.1	1.06	-1.01	316	1.46	316	3.37	136	0.45	316
279.00	278.99	0.4	299.1	1.07	-1.02	316	1.48	316	3.41	136	0.45	316
281.00	280.99	0.4	299.1	1.08	-1.03	316	1.50	316	3.45	136	0.44	316
283.00	282.99	0.6	305.1	1.10	-1.06	316	1.53	316	3.49	136	0.44	316
285.00	284.99	0.4	305.1	1.11	-1.07	316	1.55	316	3.53	136	0.44	316
286.99	286.99	0.4	319.1	1.12	-1.10	316	1.57	316	3.57	136	0.44	316
288.99	288.99	0.6	330.3	1.14	-1.11	316	1.58	316	3.61	136	0.42	316
290.99	290.99	0.4	330.3	1.15	-1.12	316	1.60	316	3.65	136	0.42	316
292.99	292.99	0.4	330.3	1.16	-1.13	316	1.62	316	3.69	136	0.42	316
294.99	294.99	0.6	333.8	1.19	-1.17	316	1.66	316	3.73	136	0.41	316
296.99	296.99	0.4	333.8	1.20	-1.18	316	1.68	316	3.77	136	0.41	316
298.99	298.99	0.4	333.8	1.21	-1.19	316	1.70	316	3.81	136	0.41	316
301.00	300.99	0.6	326.2	1.24	-1.21	316	1.73	316	3.85	136	0.39	316
303.00	302.99	0.4	326.2	1.25	-1.22	316	1.75	316	3.89	136	0.39	316
305.00	304.99	0.6	326.2	1.25	-1.25	316	1.78	316	3.94	136	0.38	316

Cross Section

All Figures are Log Depths in metres
Target Origin Depth 57.60
Last Plotted Depth 308.00
Cross Section Scale Depth in multiples of 20
First Depth Marker at 60
Last Depth Marker at 300

Plot With Respect to True North
Scale 1:50
Declination 16.1 deg East

Borehole Positional Error

The two boxes surrounding the last plotted depth show the typical and maximum positional error at that depth

Final Borehole Position

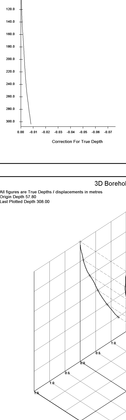
The last plotted depth is at
1.25 metres West
0.25 metres South
or 1.78 metres from the origin
316 deg from True North

Vertical Sections

North-South Section

East-West Section

(True Depth vs Displacement)
Vertical Scale 1:2000
Horizontal Scale 1:100
Markers annotated as above



Depth Correction Analysis

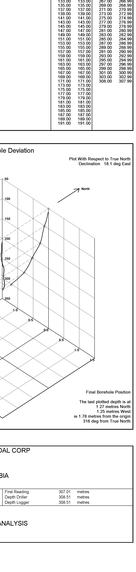
Vertical Scale 1:2000
Horizontal Scale 1:1

Depths		Depths	
Log	True	Log	True
58.00	58.00	180.00	180.00
60.00	60.00	182.00	182.00
62.00	62.00	184.00	184.00
64.00	64.00	186.00	186.00
66.00	66.00	188.00	188.00
68.00	68.00	190.00	190.00
70.00	70.00	192.00	192.00
72.00	72.00	211.00	211.00
74.00	74.00	213.00	213.00
76.00	76.00	215.00	215.00
80.00	80.00	217.00	217.00
82.00	82.00	219.00	219.00
84.00	84.00	221.00	221.00
86.00	86.00	223.00	223.00
88.00	88.00	225.00	225.00
90.00	90.00	227.00	227.00
92.00	92.00	229.00	229.00
94.00	94.00	231.00	231.00
96.00	96.00	233.00	233.00
98.00	98.00	235.00	235.00
100.00	100.00	237.00	237.00
102.00	102.00	239.00	239.00
104.00	104.00	241.00	241.00
106.00	106.00	243.00	243.00
108.00	108.00	245.00	245.00
110.00	110.00	247.00	247.00
112.00	112.00	249.00	249.00
114.00	114.00	251.00	251.00
116.00	116.00	253.00	253.00
118.00	118.00	255.00	255.00
120.00	120.00	257.00	257.00
122.00	122.00	259.00	259.00
124.00	124.00	261.00	261.00
126.00	126.00	263.00	263.00
128.00	128.00	265.00	265.00
130.00	130.00	267.00	267.00
132.00	132.00	269.00	269.00
134.00	134.00	271.00	271.00
136.00	136.00	273.00	273.00
138.00	138.00	275.00	275.00
140.00	140.00	277.00	276.99
142.00	142.00	279.00	278.99
144.00	144.00	281.00	280.99
146.00	146.00	283.00	282.99
148.00	148.00	285.00	284.99
150.00	150.00	287.00	286.99
152.00	152.00	289.00	288.99
154.00	154.00	291.00	290.99
156.00	156.00	293.00	292.99
158.00	158.00	295.00	294.99
160.00	160.00	297.00	296.99
162.00	162.00	299.00	298.99
164.00	164.00	301.00	300.99
166.00	166.00	303.00	302.99
168.00	168.00	305.00	304.99
170.00	170.00		
172.00	172.00		
174.00	174.00		
176.00	176.00		
178.00	178.00		
180.00	180.00		
182.00	182.00		
184.00	184.00		
186.00	186.00		
188.00	188.00		
190.00	190.00		
192.00	192.00		

3D Borehole Deviation

All figures are True Depths / displacements in metres
Origin Depth 57.60
Last Plotted Depth 308.00

Plot With Respect to True North
Declination 16.1 deg East



Final Borehole Position

The last plotted depth is at
1.25 metres West
0.25 metres South
or 1.78 metres from the origin
316 deg from True North

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-005
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Drill Floor	metres
Elevation Ground Level	metres
Permanent Datum	GL
Log Measured From	KB
Drilling Measured From	KB
Date	17-JUN-2009
Run Number	ONE
Depth Driller	312.00
Depth Logger	312.00
Bottom Log Interval	312.00
Top Log Interval	0.00
Casing Driller	0.00
Casing Logger	0.00
Bit Size	152.40
Type Fluid in Hole	WATER
Density	1.00
Viscosity	0.00
PH	0.00
Fluid Loss	0.00
Source of Sample	FLOWLINE
Rm @ Measured Temperature	0.00 @ 0.00
Rmf @ Measured Temperature	0.00 @ 0.00
Rmc @ Measured Temperature	0.00 @ 0.00
Source of Rmf/Rmc	MEASURED
Rm @ BHT	0.00
Time Since Circulation	0.00
Time Since Stop	0.00
Max Recorded Temperature	0.00
Equipment Number	1
Location	1
Recorded By	D. WILSON
Witnessed By	CHRIS TREE

COMPLIANCE COAL CORP
RAV09-005
UNDEFINED
BRITISH COLUMBIA
CANADA

COMPOSITE COAL LOG

BOREHOLE RECORD

Bit Size	Depth From	Depth To
152.40	0.00	312.00
108.000	312.00	319.40
147.000	319.40	321.01

Last Edited: 17-JUN-2009 02:56

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kilograms
		0.00	0.00	0.00

REMARKS

RUN 1
DFL, DDI, DSN, MSI, VSHSGD

All interpretations are opinions based on inferences from electrical or other measurements and are optimal, 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
Parameter: C:\logtel\Linux\RAV09-005\RAV09-005 MAIN.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 17-JUN-2009 02:21
Merged on 17-JUN-2009 02:34

Bit Size millimetres 150 — 150
Depth Metres
Compensated Density grams/cc 2 — 3, 100
Sandstone Neutron Por percent 50 — 0
FE Resistivity Shallow ohm metres 2 — 2000
FE Resistivity Deep ohm metres 10 — 1000
Gamma Ray from DDS API 120 — 240
Caliper from DDS millimetres 140 — 150
Density Short Spaced grams/cc 1 — 3
Vertical Scale Relative to Measured Depth 1:240
Display Scale 1:240
Density Correction grams/cc 0.45 — -0.05, 500
80 cm Compen. Sonic 9/164 microseconds/metre 500 — 100
Density Caliper millimetres 150 — 300
Density Short Spaced Resistivity ohm metres 0.2 — 2000
Density Long Spaced Resistivity ohm metres 0.2 — 2000
Density Long Spaced grams/cc 1 — 3
Density Short Spaced grams/cc 1 — 3
Density Long Spaced grams/cc 1 — 3

Depth Based Data - Merged File
Parameter: C:\logtel\Linux\RAV09-005\RAV09-005 MAIN.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 17-JUN-2009 02:21
Merged on 17-JUN-2009 02:34

COMPOSITE LOG 1:240

COMPANY COMPLIANCE COAL CORP
WELL RAV09-005
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA
Elevation Kelly Bushing metres
Elevation Drill Floor metres
Elevation Ground Level metres
First Reading 312.01 metres
Depth Driller 312.00 metres
Depth Logger 312.00 metres

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COMPOSITE COAL LOG

100/06-08-084-19W6/00	100/06-08-084-19W6/00	100/06-08-084-19W6/00	100/06-08-084-19W6/00
100/06-08-084-19W6/00	100/06-08-084-19W6/00	100/06-08-084-19W6/00	100/06-08-084-19W6/00
100/06-08-084-19W6/00	100/06-08-084-19W6/00	100/06-08-084-19W6/00	100/06-08-084-19W6/00
100/06-08-084-19W6/00	100/06-08-084-19W6/00	100/06-08-084-19W6/00	100/06-08-084-19W6/00

DRILLING DATA

Bit No.	Type	Size	Depth In	Depth Out	Footage	Hours	Rate
1		7.875	0.0	1,000.0	1,000.0	24.0	41.7
2		7.875	1,000.0	1,000.0	0.0	0.0	
3		7.875	1,000.0	1,000.0	0.0	0.0	
4		7.875	1,000.0	1,000.0	0.0	0.0	

Comments

Drilling Fluid
Water

Drilling Time
Drilling Time

Drilling Time
Drilling Time

Drilling Time
Drilling Time

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COMPANY COMPANIES COLL CORP
WELL CHAMBERS 1-2
FIELD CHAMBERS
COUNTY CHAMBERS
LOCATION 30 MILES SOUTHEAST OF HOUSTON
COORDINATES
LOCATION 1 MILE NORTH OF ANAHUAC
COORDINATES
COUNTRY USA
STATE TEXAS

Weatherford
LABORATORIES, INC.
CORAL GABLES, CALIFORNIA
CORE DIVISION, DALLAS

CHAMBERS 1-2

COMPANIES COLL CORP
CHAMBERS
TEXAS

SPECIAL DATA

Type	Depth	Remarks
Core	7000	Cut 60' Rec 60'

CORE DATA

Type	Depth	Remarks
Core	7000	Cut 60' Rec 60'

REMARKS

CORE DAMAGE CAN ALTER THE ORIGINAL RESULTS

THE ANALYSES, OPINIONS OR INTERPRETATIONS CONTAINED IN THIS REPORT (HERE-IN-AFTER REFERRED TO AS "THE REPORT") ARE BASED ON FACTS AND MATERIAL SUPPLIED BY THE CLIENT FOR WHICH THE CLIENT HAS EXCLUSIVE RIGHT AND PRIVILEGE OF INTERPRETATION. THE REPORT IS BASED ON THE ASSUMPTION THAT THE INFORMATION SUPPLIED BY THE CLIENT IS CORRECT. WEATHERFORD LABORATORIES, INC. ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION SUPPLIED BY THE CLIENT. THE REPORT IS COMPLETE ONLY WITH THE ACCOMPANYING LETTER.

CORE DATA

Formation: Depth Type: Conventional Core Diameter: 4 in. Orientation: Vertical Preservation: Fresh Preservation Date: 07/01/1950 Analysis Date: 07/01/1950 Analysis Type: Conventional Core Analysis Analyst: Page 1 of 1

CORE DATA
Porosity (%)
Permeability (mD)
Depth (ft)
Lithology
Fluid Saturation (%)
Oil
Water
Gas
Residual Oil Saturation (%)
Water Flood
Gas Flood
Grain Density (g/cm³)
Sample Description
Sandstone
Shale
Limestone
Dolomite
Chert
Coal
Salt
Anhydrite
Gypsum
Fossil
Fracture
Vug
Bedding Plane
Cross Bedding
Ripple Marks
Mud Cracks
Slickensides
Pyrite
Glauconite
Mica
Carbonaceous Material
Bitumen
Tar
Asphalt
Oil Stain
Fluorescence
Cut Fluorescence
Cut Fluorescence Color
Cut Fluorescence Intensity
Cut Fluorescence Quality
Cut Fluorescence Rate
Cut Fluorescence Time
Cut Fluorescence Volume
Cut Fluorescence Weight
Cut Fluorescence Density
Cut Fluorescence Viscosity
Cut Fluorescence Surface Tension
Cut Fluorescence Interfacial Tension
Cut Fluorescence Contact Angle
Cut Fluorescence Wetting Angle
Cut Fluorescence Capillary Pressure
Cut Fluorescence Relative Permeability
Cut Fluorescence Residual Saturation
Cut Fluorescence Irreducible Saturation
Cut Fluorescence Critical Saturation
Cut Fluorescence Mobility Ratio
Cut Fluorescence Displacement Efficiency
Cut Fluorescence Sweep Efficiency
Cut Fluorescence Recovery Factor
Cut Fluorescence Ultimate Recovery
Cut Fluorescence Recoverable Reserves
Cut Fluorescence Unrecoverable Reserves
Cut Fluorescence Total Reserves
Cut Fluorescence Proved Reserves
Cut Fluorescence Probable Reserves
Cut Fluorescence Possible Reserves
Cut Fluorescence Speculative Reserves
Cut Fluorescence Undeveloped Reserves
Cut Fluorescence Developed Reserves
Cut Fluorescence Producing Reserves
Cut Fluorescence Shut-in Reserves
Cut Fluorescence Abandoned Reserves
Cut Fluorescence Proved Developed Producing Reserves
Cut Fluorescence Proved Developed Shut-in Reserves
Cut Fluorescence Proved Undeveloped Reserves
Cut Fluorescence Probable Developed Producing Reserves
Cut Fluorescence Probable Developed Shut-in Reserves
Cut Fluorescence Probable Undeveloped Reserves
Cut Fluorescence Possible Developed Producing Reserves
Cut Fluorescence Possible Developed Shut-in Reserves
Cut Fluorescence Possible Undeveloped Reserves
Cut Fluorescence Speculative Developed Producing Reserves
Cut Fluorescence Speculative Developed Shut-in Reserves
Cut Fluorescence Speculative Undeveloped Reserves
Cut Fluorescence Total Developed Reserves
Cut Fluorescence Total Undeveloped Reserves
Cut Fluorescence Total Proved Reserves
Cut Fluorescence Total Probable Reserves
Cut Fluorescence Total Possible Reserves
Cut Fluorescence Total Speculative Reserves
Cut Fluorescence Total Reserves
Cut Fluorescence Total Recoverable Reserves
Cut Fluorescence Total Unrecoverable Reserves
Cut Fluorescence Total Proved Developed Producing Reserves
Cut Fluorescence Total Proved Developed Shut-in Reserves
Cut Fluorescence Total Proved Undeveloped Reserves
Cut Fluorescence Total Probable Developed Producing Reserves
Cut Fluorescence Total Probable Developed Shut-in Reserves
Cut Fluorescence Total Probable Undeveloped Reserves
Cut Fluorescence Total Possible Developed Producing Reserves
Cut Fluorescence Total Possible Developed Shut-in Reserves
Cut Fluorescence Total Possible Undeveloped Reserves
Cut Fluorescence Total Speculative Developed Producing Reserves
Cut Fluorescence Total Speculative Developed Shut-in Reserves
Cut Fluorescence Total

DIPMETER ANALYSIS

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN-005
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Surface Location	Lat: 0.000 Long: 0.000
Datum Elevation	Kelly Bushing: 0.000 m

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BUSHING RECORD

Bit Size	Depth From	Depth To
152.400 mm	0.000 m	2000.000 m
152.400 mm	2000.000 m	2000.000 m

Last Entry: 2 Jun 2006 00:00

CASING RECORD

Type	Size	Weight	Grade	Shoe Depth	Hole Size
Casing	244.500 mm	0.000 kg/m		0.000 m	152.400 mm

REMARKS

NOTE:
CPR, DSN, DSN, WSS, DSN/SDL

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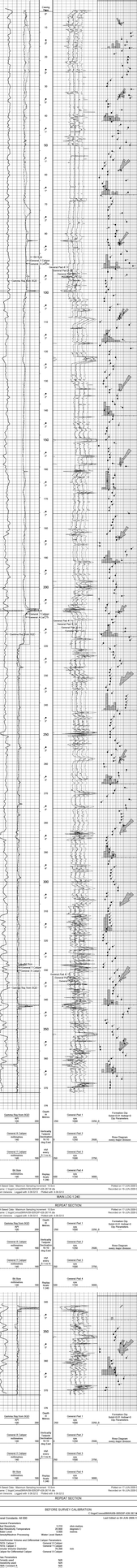
Weatherford Canada Partnership, 2000 Barlow Place, Calgary, Alberta, T2P 0C5 Phone: (403) 232-2000 Fax: (403) 232-2001 Toll Free: 1-800-661-8000 Web: www.weatherford.com

MAIN LOG 1 240

Depth Scale: Meters; Minimum Measuring Increment: 0.25 m
Software: C:\logs\Compliance\RAVEN-005\DIP 100-300.dip (v2.0.0.0)
Based on Data Acquisition Software: Slim Hole Dipmeter (v1.0.0.0)

Printed on 11-Jul-2006 00:10
Recorded on 16-JUN-2006 00:00


Gamma Ray from SGR
Gamma Ray
100 API
0
200
General Pad 1
Gamma Ray
100 API
0
200
Formation Dip
Scale 0.01 Inches/ft
Dip Azimuth
0
360
General 2 Caliper
Hole Diameter
152.400 mm
Bit Size
Avg Cave
Hole Azimuth
0
360
Rose Diagram
Jump Angle Bottom
Bit Size
152.400 mm
Hole Azimuth
0
360
Resist Image
Jump Angle Bottom
Bit Size
152.400 mm
Hole Azimuth
0
360
Casing Shoe
Casing Shoe
Casing Shoe

MINI PLOT

COMPANY COMPLIANCE COAL CORP
WELL RAVDII-005
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Elevation Kelly Bushing	metres	Final Reading	372.01 metres
Elevation Floor Level	metres	Logged Interval	372.01 metres
Elevation Ground Level	metres	Depth Logger	372.01 metres

Date	Time	Depth	Event
17-JUN-2009	12:00	0.00	Log Begin
		372.01	Log End

Tool	Serial	Version	Date
DPC	1001	1.00	17-JUN-2009
DSN	1001	1.00	17-JUN-2009
SDL	1001	1.00	17-JUN-2009
DIFL	1001	1.00	17-JUN-2009
BHC	1001	1.00	17-JUN-2009

Log Date: 17-JUN-2009
Log Number: 1
Run Number: 1
Depth Reference: Kelly Bushing
Elevation: KB 0.00 m
GL 0.00 m
DF 0.00 m

Logged Interval: 372.01 m
Top Log Interval: 0.00 m
Bottom Log Interval: 372.01 m
Drilling Fluid: Water
Max Temp: Unknown

Equipment: 10-TUC-00-00-00

Schlumberger

Well Name: 15/9-19 A

Field: Sleipner

Block: 15/9

Country: Norway

Date: 2-Jun-2010

Time: 12:00

Depth Reference: RKB

Log Interval: 3500 - 4500 m

Log Type: Main Log

Log Direction: Down

Log Quality: Good

Max Deviation: 0.5 deg

Max Temperature: 124 degC

Max Tension: 1.5 tonnes

Max Speed: 18 m/min

Tool Zero Check: Pass

Calibration Check: Pass

Log Comment:

Log Header

Run	Logging Date	Logging Time	Log Interval	Max Speed	Max Tension
1	2-Jun-2010	12:00	3500 - 4500 m	18 m/min	1.5 tonnes

Tool Strings

Tool Name	Serial Number	Length	Weight
Tool Name	Serial Number	Length	Weight

Equipment Table

Equipment	Serial Number	Location	Calibration Date
Equipment	Serial Number	Location	Calibration Date

Comments

Comments

Comments

Comments

NEUTRON POROSITY
GAMMA RAY, CALIPER

COMPANY COMPLIANCE COAL CORP.
WELL RIVER-55
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Location 49°12'0.000"N 114°0'0.000"W
Latitude Longitude
Datum NAD83 Datum
Weatherford Canada Partnership

Field Recording 08/27/ startime
Field Date 07/31/ startime
Field Logger 07/31/ startime

BOREHOLE RECORD

Bit Size	Depth From	Depth To
152.400 mm	0.0 m	1.0 m
152.400 mm	1.0 m	2.0 m

Last Entry: 14-JUN-2006 15:45

CASING RECORD

Type	Size	Weight	Grade	Drive Depth	Length
	152.400 mm				2.0 m

REMARKS

LOGGED DENSITY AND NEUTRON, THROUGH DRILL PIPE

STARTED LOGS AT 08:00 TO AVOID TOOL CATCHING ON OPEN END OF PIPE

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MAIN LOG 1 240

Wellsite Depth Scale: Begin0.0m
Wellsite Date: Begin07/31/ EndNA
Operator Witnessed: Logged with 08:00:00
Witnessed: Begin 08:00:00 Pulled with: 8.00:00:0
Pulled at: 11:12:00 (2006-07-31)
Begin at: 11:15:00 (2006-07-31)
Pulled at: 11:12:00 (2006-07-31)
Begin at: 11:15:00 (2006-07-31)

Bit Size
152.400 mm
Gamma Ray 2023
API Units
Caliper from 2023
152.400 mm
Neutron Calibration 1042 SN1
Density Calibration 2DB 8841
Neutron Porosity
Sandstone Neutron Por.
percent
Field Check on
Field Check on
Field Check on

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BOREHOLE RECORD

Bit Size	Casing Size	Top	Bottom
7.875 in	5.500 in	0.0 m	1000.0 m

Last Edited: 21-JUN-2008 09:00

CASING RECORD

Type	Size	Weight	Grade	Top Depth	Bottom Depth
	mm	kg/m		m	m
CSG	139.7	34.53	J55	0.0	1000.0

REMARKS

STD, CDN, DSN, WAL WAVEZ

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MAIN LOG 1:200

Field Data Depth Scale: Metres/1:200
Generated by Weatherford Company on 2009-04-09 09:10PM
Version: 1 Output Lasv2008R4.0.0 Build 3 Date: 2009-04-09 09:10PM
Source: C:\Logs\Lasv2008R4.0.0\DDS-09-GB-WAVE.log Printed with 3.06.0012

Printed on 17-JUN-2009 09:10
Merged on 17-JUN-2009 09:10

Gamma Ray 0 API 200 | Caliper Size 6 in 16 in | Cable Speed 0 m/min 200 m/min | Resistivity Shallow (slow scale) 0.25 Ohm.m 1000 | Resistivity Deep (slow scale) 0.25 Ohm.m 1000 | Bit Size (accumulated) 0 in 200 | Resistivity Deep (fast scale) 0.25 Ohm.m 1000 | Resistivity Shallow (fast scale) 0.25 Ohm.m 1000

Caliper Size 6 in 16 in | Cable Speed 0 m/min 200 m/min

Resistivity Deep (slow scale) 0.25 Ohm.m 1000 | Resistivity Shallow (slow scale) 0.25 Ohm.m 1000

Resistivity Deep (fast scale) 0.25 Ohm.m 1000 | Resistivity Shallow (fast scale) 0.25 Ohm.m 1000

REPEAT SECTION

Field Data Depth Scale: Metres/1:200
Generated by Weatherford Company on 2009-04-09 09:10PM
Version: 1 Output Lasv2008R4.0.0 Build 3 Date: 2009-04-09 09:10PM
Source: C:\Logs\Lasv2008R4.0.0\DDS-09-GB-WAVE.log Printed with 3.06.0012

Printed on 17-JUN-2009 09:10
Merged on 17-JUN-2009 09:10

Gamma Ray 0 API 200 | Caliper Size 6 in 16 in | Cable Speed 0 m/min 200 m/min | Resistivity Shallow (slow scale) 0.25 Ohm.m 1000 | Resistivity Deep (slow scale) 0.25 Ohm.m 1000 | Bit Size (accumulated) 0 in 200 | Resistivity Deep (fast scale) 0.25 Ohm.m 1000 | Resistivity Shallow (fast scale) 0.25 Ohm.m 1000

Caliper Size 6 in 16 in | Cable Speed 0 m/min 200 m/min

Resistivity Deep (slow scale) 0.25 Ohm.m 1000 | Resistivity Shallow (slow scale) 0.25 Ohm.m 1000

Resistivity Deep (fast scale) 0.25 Ohm.m 1000 | Resistivity Shallow (fast scale) 0.25 Ohm.m 1000

MAIN LOG 1:200

Field Data Depth Scale: Metres/1:200
Generated by Weatherford Company on 2009-04-09 09:10PM
Version: 1 Output Lasv2008R4.0.0 Build 3 Date: 2009-04-09 09:10PM
Source: C:\Logs\Lasv2008R4.0.0\DDS-09-GB-WAVE.log Printed with 3.06.0012

Printed on 17-JUN-2009 09:10
Merged on 17-JUN-2009 09:10

Gamma Ray 0 API 200 | Caliper Size 6 in 16 in | Cable Speed 0 m/min 200 m/min | Resistivity Shallow (slow scale) 0.25 Ohm.m 1000 | Resistivity Deep (slow scale) 0.25 Ohm.m 1000 | Bit Size (accumulated) 0 in 200 | Resistivity Deep (fast scale) 0.25 Ohm.m 1000 | Resistivity Shallow (fast scale) 0.25 Ohm.m 1000

Caliper Size 6 in 16 in | Cable Speed 0 m/min 200 m/min

Resistivity Deep (slow scale) 0.25 Ohm.m 1000 | Resistivity Shallow (slow scale) 0.25 Ohm.m 1000

Resistivity Deep (fast scale) 0.25 Ohm.m 1000 | Resistivity Shallow (fast scale) 0.25 Ohm.m 1000

REPEAT SECTION

Field Data Depth Scale: Metres/1:200
Generated by Weatherford Company on 2009-04-09 09:10PM
Version: 1 Output Lasv2008R4.0.0 Build 3 Date: 2009-04-09 09:10PM
Source: C:\Logs\Lasv2008R4.0.0\DDS-09-GB-WAVE.log Printed with 3.06.0012

Printed on 17-JUN-2009 09:10
Merged on 17-JUN-2009 09:10

Gamma Ray 0 API 200 | Caliper Size 6 in 16 in | Cable Speed 0 m/min 200 m/min | Resistivity Shallow (slow scale) 0.25 Ohm.m 1000 | Resistivity Deep (slow scale) 0.25 Ohm.m 1000 | Bit Size (accumulated) 0 in 200 | Resistivity Deep (fast scale) 0.25 Ohm.m 1000 | Resistivity Shallow (fast scale) 0.25 Ohm.m 1000

Caliper Size 6 in 16 in | Cable Speed 0 m/min 200 m/min

Resistivity Deep (slow scale) 0.25 Ohm.m 1000 | Resistivity Shallow (slow scale) 0.25 Ohm.m 1000

Resistivity Deep (fast scale) 0.25 Ohm.m 1000 | Resistivity Shallow (fast scale) 0.25 Ohm.m 1000

BEFORE SURVEY CALIBRATION

C:\Logs\Lasv2008R4.0.0\DDS-09-GB-WAVE.log

Resistivity Tool Constants: RES Unit

Sonde Serial	TR 86-00	
Sonde Electronics & Tool (psi)	5000.00	

Gamma Calibration: RES Unit

	Measured	Calibrated (API)
Background	24	24
Calibrator Value	224	224
Calibrator Offset	200	200

Last Edited on 21-MAY-2009 15:30

Gamma Calibration: RES Unit

Calibrator Serial	425

Field Calibration on 21-MAY-2009 15:30

Gamma Calibration: RES Unit

	Measured	Calibrated (API)
Background	24	24
Calibrator Value	224	224
Calibrator Offset	200	200

Field Calibration on 21-MAY-2009 15:30

Caliper Calibration: RES Unit

	Measured	Calibrated (mm)
Reference 1	0.000	0.000
Reference 2	254.000	254.000

Last Edited on 21-MAY-2009 15:30

Density Calibration: RES Unit

Density Source Serial	2 Curie	Cs/Mod
Density Calibrator Serial	2 Curie	1 Curie

Density Calibration: RES Unit

	Measured	Calibrated (API)
Background	24	24
Calibrator Value	2000	2000
Calibrator Offset	1976	1976

Field Calibration on 21-MAY-2009 15:30

Density Calibration: RES Unit

Calibrator Serial	425

Field Calibration on 21-MAY-2009 15:30

Sonic Calibration: RES Unit

Receiver Spacing (inches)	120.00	micro-sec/ft
Calibrator Transit Time	100.00	micro-sec/ft
Calibrator Transit Time	100.00	micro-sec/ft
Calibrator Transit Time	100.00	micro-sec/ft
Calibrator Transit Time	100.00	micro-sec/ft
Transmitter Pulse Width	25.00	micro-sec
Transmitter Pulse Width	25.00	micro-sec
Transmitter Pulse Width	25.00	micro-sec
Transmitter Pulse Width	25.00	micro-sec
Transmitter Pulse Width	25.00	micro-sec
Receiver Amplifier Gain	1000.00	
Receiver Amplifier Gain	1000.00	
Receiver Amplifier Gain	1000.00	
Receiver Amplifier Gain	1000.00	
Receiver Amplifier Gain	1000.00	

Last Edited on 21-MAY-2009 15:30

Sonic Calibration: RES Unit

Receiver Spacing	0.310	deg-sec/ft
Calibrator Transit Time	0.000	deg-sec/ft
Mode Lock	0.000	
Mode Lock Processing	Mode Lock Off	

Amplitude Volume and Differential Gates Parameters
AVG1 Gate 1 Gain Value 1000
AVG1 Gate 2 Gain Value 1000
AVG1 Gate 3 Gain Value 1000
Calibrator Transit Time Calibrator Value 0.000 sec

Raw Parameters
Mode Lock Off N/A
Mode Lock Gain N/A
Mode Lock Processing N/A
AVG Control N/A

Last Edited on 21-MAY-2009 15:30

Sonic Calibration: RES Unit

	Measured	Calibrated (API)
Background	24	24
Calibrator Value	224	224
Calibrator Offset	200	200

Field Calibration on 21-MAY-2009 15:30

Sonic Calibration: RES Unit

Calibrator Serial 425

Field Calibration on 21-MAY-2009 15:30

Density Calibration: CDR-BD

	Measured	Calibrated (API)
Background	24	24
Calibrator Value	2000	2000
Calibrator Offset	1976	1976

Field Calibration on 21-MAY-2009 15:30

Density Calibration: CDR-BD

Calibrator Serial 425

Field Calibration on 21-MAY-2009 15:30

Density Calibration: CDR-BD

Stand-off	0.00	in
Reference 1	2.000	g/cc
Reference 2	2.650	g/cc

Last Edited on 21-JUN-2008 09:30

Density Calibration: CDR-BD

	Measured	Calibrated (g/cc)
Near Calibration		
Air Gap	0.000	0.000
Reference 1	2.000	2.000
Reference 2	2.650	2.650
Far Calibration		
Air Gap	0.000	0.000
Reference 1	2.000	2.000
Reference 2	2.650	2.650
Field Calibration		
Calibrator Value	2.000	2.000
Field Check	2.000	2.000

Density Calibration: CDR-BD

Calibrator Serial	425
Density Source	CDR
Density Source Serial	2 Curie
Maximum Calibrator Number	1
Density Calibrator Serial Number	1 Curie
Spine Plate Coefficient	0.000
Spine Plate Temperature	0.000
Mud Density Density	1.100 g/cc
Mud Density Pe	0.000
Mud Density Type	Water
Spine Density (g/cc)	Depth Inch
0.00	0.00
0.50	0.00
1.00	0.00
1.50	0.00
2.00	0.00
2.50	0.00
3.00	0.00

Bit Hole Normalization Measured g/cc Calibrated g/cc

MED Point 1	1.00	1.00
MED Point 2	1.50	1.50
LED Point 1	1.00	1.00
LED Point 2	1.50	1.50

Tool Hole Normalization Measured g/cc Calibrated g/cc

MED Point 1	1.00	1.00
MED Point 2	1.50	1.50
LED Point 1	1.00	1.00
LED Point 2	1.50	1.50

Last Edited on 21-JUN-2008 09:30

Calibration Calibration: CDR-BD

Near Calibration		
Reading Air	Measured	Calibration Value
	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
	Measured Value (cps)	Actual Value (cps)
Field Calibration	0.000	0.000

Field Calibration on 21-JUN-2008 09:30

Calibration Calibration: CDR-BD

Near Calibration		
Reading Air	Measured	Calibration Value
	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
	Measured Value (cps)	Actual Value (cps)
Field Calibration	0.000	0.000

Field Calibration on 21-JUN-2008 09:30

COMPANY	COASTLINE COAL CORP		
WELL	RAVEN-005		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Service Order Number	0000000	Total Reading	2212.00 metres
Service Start Date	metres	Depth Origin	0.0 metres
Service Stop Date	metres	Depth Scale	1:200

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DUAL FOCUSED ELECTRIC
GAMMA RAY, CALIPER

BOOM COMPENSATED SONIC

COMPLIANCE CORP. WELL 14-05-083-09 W6M

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COMPANY	COMPLIANCE COAL CORP
WELL	14-05-083
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COORDINATE	CANADA

Service Order Number		Field Printing	01/12 Update
Log Type	BOOM COMPENSATED SONIC	Field Processing	01/12 Update
Log Date	01/12/2006	Final Processing	01/12 Update

VERTICALITY ANALYSIS

COMPANY COMPLIANCE COAL CORP
WELL RAV99-005
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Weatherford

BOREHOLE RECORD

Last Edited: 17-JUN-2009 02:50

Bit Size	Depth From	Depth To
152.400	0.00	141.00
146.000	141.00	323.00
141.000	323.00	323.00

CASING RECORD

Type	Size	Depth From	Shoe Depth	Weight
	139.700	0.00	141.00	0.000

REMARKS

RUN 1
DFS, DDB, DDN, MSC VSHSGD

Verticality Analysis Interpretation Notes

17-JUN-2009 03:11

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

The analysis is derived by integrating 100mm 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 unusual magnetic interference. Such interference will be evident in the Magnetic Field Strength (MFS). So the analysis will generally begin at the end of the casing and all borehole positional information will relate to this depth.

Up to six 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).

Borehole positional error is derived assuming the following parameters:

	TILT (degrees)	AZIMUTH (degrees)
Typical Error	+/- 0.3000	+/- 10.0000
Maximum Error	+/- 0.5000	+/- 15.0000

Error analysis may be calculated and plotted from the data listing as follows:

a) Plot the four coordinates from the error listing (based upon zero azimuth error) on a target plot. Origin at the start of the survey.

b) Describe arcs of +/- 10.00 degrees and +/- 15.00 degrees (centre at the origin) through the inner and outer points respectively.

c) Connect the respective arcs together with straight lines to give the typical and maximum borehole positional error.

Given below is a full description of the parameters displayed on the analysis 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.

ERROR COORDINATES The polar coordinates corresponding to the typical and maximum tilt error

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\Cmcoal\RAV99-005\DDP 429-367 ff.dw
All Co-ordinates With Respect To True North. All depths in metres
First Depth 1.60, 0.00 North, 0.00 East of Origin

Date Processed 17-JUN-2009
Data Log(s)0.0m-00.0100m0.00

DEPTHS Log	DEPTHS True	TILT	AZI	BOREHOLE North	BOREHOLE East	ABAL CO-ORDS Radius	POLAR Angle	POLAR ERROR CO-ORDINATES (MAXIMUM & TYPICAL) Radius	Angle	Radius	Angle
0.00	0.00	0.0	180.0	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0
1.60	1.60	0.1	180.0	-0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0
3.00	3.00	0.3	180.0	-0.00	0.01	0.01	0.0	0.00	0.0	0.00	0.0
4.00	4.00	0.5	180.0	-0.00	0.02	0.02	0.0	0.00	0.0	0.00	0.0
5.00	5.00	0.6	180.0	-0.00	0.03	0.03	0.0	0.00	0.0	0.00	0.0
6.00	6.00	0.8	180.0	-0.00	0.04	0.04	0.0	0.00	0.0	0.00	0.0
7.00	7.00	0.9	180.0	-0.00	0.05	0.05	0.0	0.00	0.0	0.00	0.0
8.00	8.00	1.1	180.0	-0.00	0.07	0.07	0.0	0.00	0.0	0.00	0.0
9.00	9.00	1.2	180.0	-0.00	0.09	0.09	0.0	0.00	0.0	0.00	0.0
10.00	10.00	1.4	180.0	-0.00	0.12	0.12	0.0	0.00	0.0	0.00	0.0
11.00	11.00	1.5	180.0	-0.00	0.15	0.15	0.0	0.00	0.0	0.00	0.0
12.00	12.00	1.7	180.0	-0.00	0.18	0.18	0.0	0.00	0.0	0.00	0.0
13.00	13.00	1.8	180.0	-0.00	0.22	0.22	0.0	0.00	0.0	0.00	0.0
14.00	14.00	2.0	180.0	-0.00	0.26	0.26	0.0	0.00	0.0	0.00	0.0
15.00	15.00	2.1	180.0	-0.00	0.31	0.31	0.0	0.00	0.0	0.00	0.0
16.00	16.00	2.3	180.0	-0.00	0.36	0.36	0.0	0.00	0.0	0.00	0.0
17.00	17.00	2.4	180.0	-0.00	0.41	0.41	0.0	0.00	0.0	0.00	0.0
18.00	18.00	2.6	180.0	-0.00	0.47	0.47	0.0	0.00	0.0	0.00	0.0
19.00	19.00	2.7	180.0	-0.00	0.53	0.53	0.0	0.00	0.0	0.00	0.0
20.00	20.00	2.9	180.0	-0.00	0.60	0.60	0.0	0.00	0.0	0.00	0.0
21.00	21.00	3.0	180.0	-0.00	0.67	0.67	0.0	0.00	0.0	0.00	0.0
22.00	22.00	3.2	180.0	-0.00	0.74	0.74	0.0	0.00	0.0	0.00	0.0
23.00	23.00	3.3	180.0	-0.00	0.82	0.82	0.0	0.00	0.0	0.00	0.0
24.00	24.00	3.5	180.0	-0.00	0.90	0.90	0.0	0.00	0.0	0.00	0.0
25.00	25.00	3.6	180.0	-0.00	0.98	0.98	0.0	0.00	0.0	0.00	0.0
26.00	26.00	3.8	180.0	-0.00	1.07	1.07	0.0	0.00	0.0	0.00	0.0
27.00	27.00	3.9	180.0	-0.00	1.16	1.16	0.0	0.00	0.0	0.00	0.0
28.00	28.00	4.1	180.0	-0.00	1.25	1.25	0.0	0.00	0.0	0.00	0.0
29.00	29.00	4.2	180.0	-0.00	1.35	1.35	0.0	0.00	0.0	0.00	0.0
30.00	30.00	4.4	180.0	-0.00	1.45	1.45	0.0	0.00	0.0	0.00	0.0
31.00	31.00	4.5	180.0	-0.00	1.55	1.55	0.0	0.00	0.0	0.00	0.0
32.00	32.00	4.7	180.0	-0.00	1.66	1.66	0.0	0.00	0.0	0.00	0.0
33.00	33.00	4.8	180.0	-0.00	1.77	1.77	0.0	0.00	0.0	0.00	0.0
34.00	34.00	5.0	180.0	-0.00	1.88	1.88	0.0	0.00	0.0	0.00	0.0
35.00	35.00	5.1	180.0	-0.00	1.99	1.99	0.0	0.00	0.0	0.00	0.0
36.00	36.00	5.3	180.0	-0.00	2.11	2.11	0.0	0.00	0.0	0.00	0.0
37.00	37.00	5.4	180.0	-0.00	2.23	2.23	0.0	0.00	0.0	0.00	0.0
38.00	38.00	5.6	180.0	-0.00	2.35	2.35	0.0	0.00	0.0	0.00	0.0
39.00	39.00	5.7	180.0	-0.00	2.47	2.47	0.0	0.00	0.0	0.00	0.0
40.00	40.00	5.9	180.0	-0.00	2.60	2.60	0.0	0.00	0.0	0.00	0.0
41.00	41.00	6.0	180.0	-0.00	2.73	2.73	0.0	0.00	0.0	0.00	0.0
42.00	42.00	6.2	180.0	-0.00	2.86	2.86	0.0	0.00	0.0	0.00	0.0
43.00	43.00	6.3	180.0	-0.00	2.99	2.99	0.0	0.00	0.0	0.00	0.0
44.00	44.00	6.5	180.0	-0.00	3.13	3.13	0.0	0.00	0.0	0.00	0.0
45.00	45.00	6.6	180.0	-0.00	3.27	3.27	0.0	0.00	0.0	0.00	0.0
46.00	46.00	6.8	180.0	-0.00	3.41	3.41	0.0	0.00	0.0	0.00	0.0
47.00	47.00	6.9	180.0	-0.00	3.55	3.55	0.0	0.00	0.0	0.00	0.0
48.00	48.00	7.1	180.0	-0.00	3.70	3.70	0.0	0.00	0.0	0.00	0.0
49.00	49.00	7.2	180.0	-0.00	3.85	3.85	0.0	0.00	0.0	0.00	0.0
50.00	50.00	7.4	180.0	-0.00	4.00	4.00	0.0	0.00	0.0	0.00	0.0
51.00	51.00	7.5	180.0	-0.00	4.15	4.15	0.0	0.00	0.0	0.00	0.0
52.00	52.00	7.7	180.0	-0.00	4.31	4.31	0.0	0.00	0.0	0.00	0.0
53.00	53.00	7.8	180.0	-0.00	4.47	4.47	0.0	0.00	0.0	0.00	0.0
54.00	54.00	8.0	180.0	-0.00	4.63	4.63	0.0	0.00	0.0	0.00	0.0
55.00	55.00	8.1	180.0	-0.00	4.79	4.79	0.0	0.00	0.0	0.00	0.0
56.00	56.00	8.3	180.0	-0.00	4.96	4.96	0.0	0.00	0.0	0.00	0.0
57.00	57.00	8.4	180.0	-0.00	5.13	5.13	0.0	0.00	0.0	0.00	0.0
58.00	58.00	8.6	180.0	-0.00	5.30	5.30	0.0	0.00	0.0	0.00	0.0
59.00	59.00	8.7	180.0	-0.00	5.47	5.47	0.0	0.00	0.0	0.00	0.0
60.00	60.00	8.9	180.0	-0.00	5.65	5.65	0.0	0.00	0.0	0.00	0.0
61.00	61.00	9.0	180.0	-0.00	5.83	5.83	0.0	0.00	0.0	0.00	0.0
62.00	62.00	9.2	180.0	-0.00	6.01	6.01	0.0	0.00	0.0	0.00	0.0
63.00	63.00	9.3	180.0	-0.00	6.19	6.19	0.0	0.00	0.0	0.00	0.0
64.00	64.00	9.5	180.0	-0.00	6.38	6.38	0.0	0.00	0.0	0.00	0.0
65.00	65.00	9.6	180.0	-0.00	6.57	6.57	0.0	0.00	0.0	0.00	0.0
66.00	66.00	9.8	180.0	-0.00	6.76	6.76	0.0	0.00	0.0	0.00	0.0
67.00	67.00	9.9	180.0	-0.00	6.96	6.96	0.0	0.00	0.0	0.00	0.0
68.00	68.00	10.1	180.0	-0.00	7.16	7.16	0.0	0.00	0.0	0.00	0.0
69.00	69.00	10.2	180.0	-0.00	7.36	7.36	0.0	0.00	0.0	0.00	0.0
70.00	70.00	10.4	180.0	-0.00	7.57	7.57	0.0	0.00	0.0	0.00	0.0
71.00	71.00	10.5	180.0	-0.00	7.78	7.78	0.0	0.00	0.0	0.00	0.0
72.00	72.00	10.7	180.0	-0.00	7.99	7.99	0.0	0.00	0.0	0.00	0.0
73.00	73.00	10.8	180.0	-0.00	8.21	8.21	0.0	0.00	0.0	0.00	0.0
74.00	74.00	11.0	180.0	-0.00	8.43	8.43	0.0	0.00	0.0	0.00	0.0
75.00	75.00	11.1	180.0	-0.00	8.65	8.65	0.0	0.00	0.0	0.00	0.0
76.00	76.00	11.3	180.0	-0.00	8.88	8.88	0.0	0.00	0.0	0.00	0.0
77.00	77.00	11.4	180.0	-0.00	9.11	9.11	0.0	0.00	0.0	0.00	0.0
78.00	78.00	11.6	180.0	-0.00	9.34	9.34	0.0	0.00	0.0	0.00	0.0
79.00	79.00	11.7	180.0	-0.00	9.58	9.58	0.0	0.00	0.0	0.00	0.0
80.00	80.00	11.9	180.0	-0.00	9.82	9.82	0.0	0.00	0.0	0.00	0.0
81.00	81.00	12.0	180.0	-0.00	10.06	10.06	0.0	0.00	0.0	0.00	0.0
82.00	82.00	12.2	180.0	-0.00	10.31	10.31	0.0	0.00	0.0	0.00	0.0
83.00	83.00	12.3	180.0	-0.00	10.56	10.56	0.0	0.00	0.0	0.00	0.0
84.00	84.00	12.5	180.0	-0.00	10.81	10.81	0.0	0.00	0.0	0.00	0.0
85.00	85.00	12.6	180.0	-0.00	11.07	11.07	0.0	0.00	0.0	0.00	0.0
86.00	86.00	12.8	180.0	-0.00	11.33	11.33	0.0	0.00	0.0	0.00	0.0
87.00	87.00	12.9	180.0	-0.00	11.59	11.59	0.0	0.00	0.0	0.00	0.0
88.00	88.00	13.1	180.0	-0.00	11.86	11.86	0.0	0.00	0.0	0.00	0.0
89.00	89.00	13.2	180.0	-0.00	12.13	12.13	0.0	0.00	0.0	0.00	0.0
90.00	90.00	13.4	180.0	-0.00	12.40	12.40	0.0	0.00	0.0	0.00	0.0
91.00	91.00	13.5	180.0	-0.00	12.68	12.68	0.0	0.00	0.0	0.00	0.0
92.00	92.00	13.7	180.0	-0.00	12.96	12.96	0.0	0.00	0.0	0.00	0.0
93.00	93.00	13.8	180.0	-0.00	13.24	13.24	0.0	0.00	0.0	0.00	0.0
94.00	94.00	14.0	180.0	-0.00	13.53	13.53	0.0	0.00	0.0	0.00	0.0
95.00	95.00	14.1	180.0	-0.00	13.82	13.82	0.0	0.00	0.0	0.00	0.0
96.00	96.00	14.3	180.0	-0.00	14.11	14.11	0.0	0.00	0.0	0.00	0.0
97.00	97.00	14.4	180.0	-0.00	14.41	14.41	0.0	0.00	0.0	0.00	0.0
98.00	98.00	14.6	180.0	-0.00	14.71	14.71	0.0	0.00	0.0	0.00	0.0
99.00	99.00	14.7	180.0	-0.00	15.01	15.01	0.0	0.00	0.0	0.00	0.0
100.00	100.00	14.9	180.0	-0.00	15.32	15.32	0.0	0.00	0.0	0.00	0.0
101.00	101.00	15.0	180.0	-0.00	15.63	15.63	0.0	0.00	0.0	0.00	0.0
102.00	102.00	15.2	180.0	-0.00	15.94	15.94	0.0	0.00	0.0	0.00	0.0
103.00	103.00	15.3	180.0	-0.00	16.26	16.26	0.0	0.00	0.0	0.00	0.0
104.00	104.00	15.5	180.0	-0.00	16.58	16.58	0.0	0.00	0.0	0.00	0.0
105.00	105.00	15.6	180.0	-0.00	16.90	16.90	0.0	0.00	0.0	0.00	0.0
106.00	106.00	15.8	180.0	-0.00	17.23	17.23	0.0	0.00	0.0	0.00	0.0
107.00	107.00	15.9	180.0	-0.00	17.56	17.56	0.0	0.00	0.0	0.00	0.0
108.00	108.00	16.1	180.0	-0.00	17.89	17.89	0.0	0.00	0.0	0.00	0.0
109.00	109.00	16.2	180.0	-0.00	18.22	18.22	0.0	0.00	0.0	0.00	0.0
110.00	110.00	16.4	180.0	-0.00	18.56	18.56	0.0	0.00	0.0	0.00	0.0
111.00	111.00	16.5	180.0	-0.00	18.90	18.90	0.0	0.00	0.0	0.00	0.0
112.00	112.00	16.7	180.0	-0.00	19.24	19.24	0.0	0.00	0.0	0.00	0.0
113.00	113.00	16.8	180.0	-0.00	19.58	19.58	0.0	0.00	0.0	0.00	0.0
114.00	114.00	17.0	180.0	-0.00	19.93	19.93	0.0	0.00	0.0	0.00	0.0
115.00	115.00	17.1	180.0	-0.00	20.28	20.28	0.0	0.00	0.0	0.00	0.0
116.00	116.00	17.3	180.0	-0.00	20.63	20.63	0.0	0.00	0.0	0.00	0.0
117.00	117.00	17.4	180.0	-0.00	20.98	20.98	0.0	0.00	0.0	0.00	0.0
118.00	118.00	17.6	180.0	-0.00	21.34	21.34	0.0	0.00	0.0	0.00	0.0
119.00	119.00	17.7	180.0	-0.00	21.70	21.70	0.0	0.00	0.0	0.00	0.0
120.00	120.00	17.9	180.0	-0.00	22.06	22.06	0.0	0.00	0.0	0.00	0.0
121.00	121.00	18.0	180.0	-0.00	22.42	22.42	0.0	0.00	0.0	0.00	0.0
122.00	122.00	18.2	180.0	-0.00	22.79	22.79	0.0	0.00	0.0	0.00	0.0
123.00	123.00	18.3	180.0	-0.00	23.16	23.16	0.0	0.00	0.0	0.00	0.0
124.00	124.00	18.5	180.0	-0.00	23.53	23.53	0.0	0.00	0.0	0.00	0.0
125.00	125.00	18.6	180.0	-0.00	23.91	23.91	0.0	0.00	0.0	0.00	0.0
126.00	126.00	18.8	180.0	-0.00	24.29	24.29	0.0	0.00	0.0	0.00	0.0
127.00	127.00	18.9	180.0	-0.00	24.67	24.67	0.0	0.00	0.0	0.00	0.0
128.00	128.00	19.1	180.0	-0.00	25.05	25.05	0.0	0.00	0.0	0.00	0.0
129.00	129.00	19.2	180.0	-0.00	25.44	25.44	0.0	0.00	0.0	0.00	0.0
130.00	130.00	19.4	180.0	-0.00	25.83	25.83	0.0	0.00	0.0	0.00	0.0
131.00	131.00	19.5	180.0	-0.00	26.22	26.22	0.0	0.00	0.0	0.00	0.0
132.00	132.00	19.7	180.0	-0.00	26.62	26.62	0.0	0.00	0.0	0.00	0.0
133.00	133.00	19.8	180.0	-0.00	27.02	27.02	0.0	0.00	0.0	0.00	0.0
134.00	134.00	20.0	180.0	-0.00	27.42	27.42	0.0	0.00	0.0	0.00	0.0
135.00	135.00	20.1	180.0	-0.00	27.82	27.82	0.0	0.00	0.0	0.00	0.0
136.00	136.00	20.3	180.0	-0.00	28.23	28.23	0.0	0.00	0.0	0.00	0.0
137.00	137.00	20.4	180.0	-0.00	28.64	28.64	0.0	0.00	0.0	0.00	0.0
138.00	138.00	20.6	180.0	-0.00	29.05	29.05	0.0	0.00	0.0	0.00	0.0
139.00	139.00	20.7	180.0	-0.00	29.46	29.46	0.0	0.00	0.0	0.00	0.0
140.00	140.00	20.9	180.0	-0.00	29.88	29.88	0.0	0.00	0.0	0.00	0.0
141.00	141.00	21.0	180.0	-0.00	30.30	30.30	0.0	0.00	0.0	0.00	0.0
142.00	142.00	21.2	180.0	-0.00	30.72	30.72	0.0	0.00	0.0	0.00	0.0
143.00	143.00	21.3	180.0	-0.00	31.14	31.14	0.0	0.00	0.0	0.00	0.0
144.00	144.00	21.5	180.0	-0.00	31.57	31.57	0.0	0.00	0.0	0.00	0.0
145.00	145.00	21.6	180.0	-0.00	32.00	32.00	0.0	0.00	0.0	0.00	0.0
146.00	146.00	21.8	180.0	-0.00	32.43	32.43	0.0	0.00	0.0	0.00	0.0
147.00	147.00	21.9	180.0	-0.00	32.86	32.86	0.0	0.00	0.0	0.00	0.0
148.00	148.00	22.1	180.0	-0.00	33.29	33.29	0.0	0.00	0.0	0.00	0.0
149.00	149.00	22.2	180.0	-0.00	33.73	33.73	0.0	0.00	0.0	0.00	0.0
150.00	150.00	22.4	180.0	-0.00	34.17	34.17	0.0	0.00	0.0	0.00	0.0
151.00	151.00	22.5	180.0	-0.00	34.61	34.61	0.0	0.00	0.0	0.00	0.0
152.00	152.00	22.7	180.0	-0.00	35.05	35.05	0.0	0.00	0.0	0.00	0.0
153.00	153.00	22.8	180.0	-0.00	35.49	35.49	0.0	0.00	0.0	0.00	0.0
154.00	154.00	23.0	180.0	-0.00	35.94	35.94	0.0	0.00	0.0	0.00	0.0
155.00	155.00	23.1	180.0	-0.00	36.39	36.39	0.0	0.00	0.0	0.00	0.0
156.00	156.00	23.3	180.0	-0.00	36.84	36.84	0.0	0.00	0.0	0.00	0.0
157.00	157.00	23.4	180.0	-0.00	37.29	37.29	0.0	0.00	0.0	0.00	0.0
158.00	158.00	23.6	180.0	-0.00	37.75	37.75	0.0	0.00	0.0	0.00	0.0
159.00	159.00	23.7	180.0	-0.00	38.21	38.21	0.0	0.00	0.0	0.00	0.0
160.00	160.00	23.9	180.0	-0.00	38.67	38.67	0.0	0.00	0.0	0.00	0.0
161.00	161.00	24.0	180.0	-0.00	39.13	39.13	0.0	0.00	0.0	0.00	0.0
162.00	162.00	24.2	180.0	-0.00	39.60	39.60	0.0	0.00	0.0	0.00	0.0
163.00	163.00	24.3	180.0	-0.00	40.07	40.07	0.0	0.00	0.0	0.00	0.0
164.00	164.00	24.5	180.0	-0.00	40.54	40.54	0.0	0.00	0.0	0.00	0.0
165.00	165.00	24.6	180.0	-0.00	41.02	41.02	0.0	0.00	0.0	0.00	0.0
166.00	166.00	24.8	180.0	-0.00	41.50	41.50	0.0	0.00	0.0	0.00	0.0
167.00	167.00	24.9	180.0	-0.00	41.98	41.98	0.0	0.00	0.0	0.00	0.0
168.00	168.00	25.1	180.0	-0.00	42.46	42.46	0.0	0.00	0.0	0.00	0.0
169.00	169.00	25.2	180.0	-0.00	42.95	42.95	0.0	0.00	0.0	0.00	0.0
170.00	170.00	25.4	180.0	-0.00	43.44	43.44	0.0	0.00	0.0	0.00	0.0
171.00	171.00	25.5	180.0	-0.00	43.93	43.93	0.0	0.00	0.0	0.00	0.0
172.00	172.00	25.7	180.0	-0.00	44.43	44.43	0.0	0.00	0.0	0.00	0.0
173.00	173.00	25.8	180.0	-0.00	44.93	44.93	0.0	0.00	0.0	0.00	0.0
174.00	174.00	26.0	180.0	-0.00	45.43	45.43	0.0	0.00	0.0	0.00	0.0
175.00	175.00	26.1	180.0	-0.00	45.94	45.94	0.0	0.00	0.0	0.00	0.0
176.00	176.00	26.3	180.0	-0.00	46.45	46.45	0.0	0.00	0.0	0.00	0.0
177.00	177.00	26.4	180.0	-0.00	46.97	46.97	0.0	0.00	0.0	0.00	0.0
178.00	178.00	26.6	180.0	-0.00	47.49	47.49	0.0	0.00	0.0	0.00	0.0
179.00	179.00	26.7	180.0	-0.00	48.01	48.01	0.0	0.00	0.0	0.00	0.0
180.00	180.00	26.9	180.0	-0.00	48.53	48.53	0.0	0.00	0.0	0.00	0.0
181.00	181.00	27.0	180.0	-0.00	49.06	49.06	0.0	0.00	0.0	0.00	0.0
182.00	182.00	27.2	180.0	-0.00	49.59	49.59	0.0	0.00	0.0	0.00	0.0
183.00	183.00	27.3	180.0	-0.00	50.13	50.13	0.0	0.00	0.0	0.00	0.0
184.00	184.00	27.5	180.0	-0.00	50.66	50.66	0.0	0.00	0.0	0.00	0.0
185.00	185.00	27.6	180.0	-0.00	51.20	51.20	0.0	0.00	0.0	0.00	0.0
186.00	186.00	27.8	180.0	-0.00	51.74	51.74	0.0	0.00	0.0	0.00	0.0
187.00	187.00	27.9	180.0	-0.00	52.28	52.28	0.0	0.00	0.0	0.00	0.0
188.00	188.00	28.1	180.0	-0.00	52.83	52.83	0.0	0.00	0.0	0.00	0.0
189.00	189.00	28.2	180.0	-0.00	53.38	53.38	0.0	0.00	0.0	0.00	0.0
190.00	190.00	28.4	180.0	-0.00	53.93	53.93	0.0	0.00	0.0	0.00	0.0
191.00	191.00	28.5	180.0	-0.00	54.48	54.48	0.0	0.00	0.0	0.00	0.0
192.00	192.00	28.7	180.0	-0.00	55.04	55.04	0.0	0.00	0.0	0.00	0.0
193.00	193.00	28.8	180.0	-0.00	55.60	55.60	0.0	0.00	0.0	0.00	0.0
194.00	194.00	29.0	180.0	-0.00	56.16	56.16	0.0	0.00	0.0	0.00	0.0
195.00	195.00	29.1	180.0	-0.00	56.72	56.72	0.0	0.00	0.0	0.00	0.0
196.00	196.00	29.3	180.0	-0.00	57.29	57.29	0.0	0.00	0.0	0.00	0.0
197.00	197.00

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-006
FIELD	UNDEFINED
PROVINCE/SECURITY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Logging Company	Logging Date	Logging Unit Number	Bit Size millimetres	Bit Type	Bit Run	Depth Drilled From metres	Depth Drilled To metres	Total Metres Drilled	Cumulative Metres Drilled
Weatherford	18-JUN-2009	1	140	PDC	1	0.00	67.97	67.97	67.97
Weatherford	18-JUN-2009	1	140	PDC	2	67.97	179.04	111.07	179.04

Drilling Fluid Type: WATER
Drilling Fluid Sample Source: Circulating Water
Drilling Fluid Viscosity: Not Recorded
Drilling Fluid Density: Not Recorded
Drilling Fluid pH: Not Recorded
Drilling Fluid Resistivity: Not Recorded
Drilling Fluid Sand: Not Recorded
Drilling Fluid Filtrate: Not Recorded
Drilling Fluid Cake: Not Recorded
Source of Sample: Not Recorded
Rm @ Measured Temp: Not Recorded
Rmf @ Measured Temp: Not Recorded
Rmc @ Measured Temp: Not Recorded
Maximum Recorded Temp: Not Recorded
Equipment / Base: 11806
Equipment / Base: RGR
Witnessed By: C.O.L./T.McGrath

Logging Company	Logging Date	Logging Unit Number	Run Number	Depth Logged From metres	Depth Logged To metres	Hole Fluid Level metres	Casing Logged From metres	Casing Logged To metres	Casing Size millimetres	Casing Weight kg/metre
Weatherford	18-JUN-2009	1	1	175.01	179.04	0.00	0.00	67.97	178.51	

Permanent Datum: GL, Elevation: NA metres
Log Measured From: GROUND LEVEL, above Permanent Datum
Date: 18-JUN-2009
Elevations: KB: GL:
Elevations: metres

BOREHOLE RECORD

Bit Size millimetres	Depth From metres	Depth To metres
168.900	0.00	67.97
147.000	67.97	179.04

Last Edited: 17-JUN-2009 14:00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	178.51	0.00	67.97	

REMARKS

COORDINATES:
NORTHING:
5493070
EASTING:
395480

TOOL RUNS:
RR5, DD6, VO4

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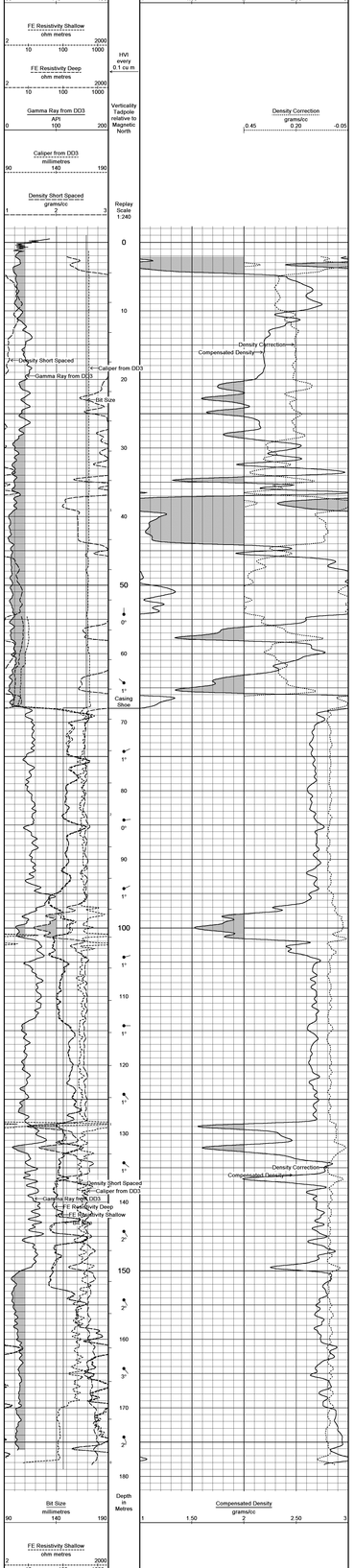
COMPOSITE LOG 1:240

Depth Based Data - Merged File
Filename: C:\logs\Comsol\09RAV09-006\006-MAIN.mge
System Versions: Logged with: 8.06.0212 Merged with: 8.06.0212 Plotted with: 8.06.0212
Plotted on 18-JUN-2009 14:05
Merged on 18-JUN-2009 13:49



Depth Based Data - Merged File
Filename: C:\logs\Comsol\09RAV09-006\006-MAIN.mge
System Versions: Logged with: 8.06.0212 Merged with: 8.06.0212 Plotted with: 8.06.0212
Plotted on 18-JUN-2009 14:05
Merged on 18-JUN-2009 13:49
COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-006
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	175.01	metres
Elevation Drill Floor	metres	Depth Driller	179.04	metres
Elevation Ground Level	metres	Depth Logger	178.51	metres

Weatherford

COMPOSITE COAL LOG

Weatherford

COMPUTED DATA PLOTS
CONTINUOUS DIPMETER
CONTINUOUS DIP

COMPANY	CONFLUENCE COAL CORP
WELL	RIVER-DIR
FIELD	RIVER-DIR
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Date Run	21-Jun-2006
Depth Logged	1.0 - 1.0 m
Depth Scale	1:50

COAL LITHOLOGY
GAMMA RAY, CALIPER
COAL DETAIL ZONES

BOREHOLE RECORD

Bit Size (mm)	Depth In (m)	Depth Out (m)
152.4	0.0	1.0

CASING RECORD

Size (mm)	Weight (kg/m)	Depth (m)
152.4	0.0	0.0

Logged: 21-JUN-2006 00:00
Run Number: 1
Driller's Depth: 1.0 m
Schlumberger Depth: 1.0 m
Casing Shoe: 0.0 m
Casing Shoe Depth: 0.0 m
Depth Logged: 1.0 m

REMARKS

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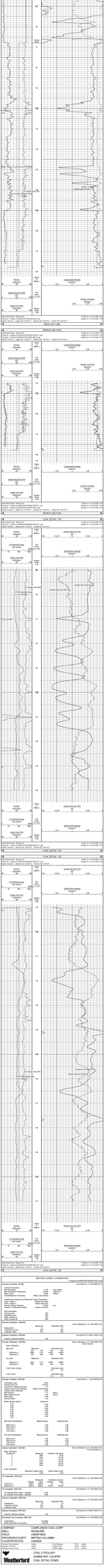

BEFORE SURVEY CALIBRATION

Tool Serial Number: 0B-0B1

Gamma Calibrator: 0B-0B1

Manufacturer		
Model Number	2.0	
Calibrator Temperature	0.0	DEG CENTIGRADE
Calibrator Date	0.0	1-Jan-1900
Calibrator Time	0.0	00:00
Model Number Scalar and Different Calibrator Temperature		
Model Number Scalar and Different Calibrator Date		
Model Number Scalar and Different Calibrator Time		
Calibrator Is Different Calibrator		no
Calibrator Type		
Calibrator Serial Number		
Calibrator Gain	1.000	
Calibrator Offset	0.000	
Calibrator Scalar	1.000	
Calibrator Offset Scalar	0.000	

Gamma Calibration - 0B-0B1 — Field Calibration on: 21-JUN-2006 00:00

	Measured	Calibrated API
Background	0.00	0.00
Pad Offset	0.00	0.00

Last Calibration on: 1-JAN-1900 00:00

Density Calibrator: 0B-0B1

Manufacturer		
Model Number	2.0	
Calibrator Temperature	0.0	DEG CENTIGRADE
Calibrator Date	0.0	1-Jan-1900
Calibrator Time	0.0	00:00
Model Number Scalar and Different Calibrator Temperature		
Model Number Scalar and Different Calibrator Date		
Model Number Scalar and Different Calibrator Time		
Calibrator Is Different Calibrator		no
Calibrator Type		
Calibrator Serial Number		
Calibrator Gain	1.000	
Calibrator Offset	0.000	
Calibrator Scalar	1.000	
Calibrator Offset Scalar	0.000	

Density Calibration - 0B-0B1 — Field Calibration on: 21-JUN-2006 00:00

	Measured	Calibrated g/cm³
Short Spacing	0.00	0.00
Long Spacing	0.00	0.00

Last Calibration on: 1-JAN-1900 00:00

Density Correction - 0B-0B1

Density Scale	1.0	3.0
Density Correction Scale	-0.25	0.25
Density Short Spacing Correction Scale	-0.25	0.25
Density Short Spacing Scale	1.0	3.0
Density Short Spacing Correction Type		gain
Density Short Spacing Correction Gain	1.000	
Density Short Spacing Correction Offset	0.000	
Density Gain	1.000	
Density Offset	0.000	
Density Scalar	1.000	
Density Offset Scalar	0.000	

Caliper Calibration - 0B-0B1 — Field Calibration on: 21-JUN-2006 00:00

	Measured	Calibrated mm
Pad Offset	0.00	0.00
Pad Gain	1.00	1.00
Pad Offset	0.00	0.00
Pad Gain	1.00	1.00
Pad Offset	0.00	0.00
Pad Gain	1.00	1.00
Pad Offset	0.00	0.00
Pad Gain	1.00	1.00

Last Calibration on: 1-JAN-1900 00:00

Bias Value Temperature — Measured g/cm³ — Calibrated g/cm³

Bias Value 1	1.00	1.00
Bias Value 2	1.00	1.00
Bias Value 3	1.00	1.00
Bias Value 4	1.00	1.00

Bias Value Temperature — Measured g/cm³ — Calibrated g/cm³

Bias Value 1	1.00	1.00
Bias Value 2	1.00	1.00
Bias Value 3	1.00	1.00
Bias Value 4	1.00	1.00

Caliper Calibration - 0B-0B1 — Field Calibration on: 21-JUN-2006 00:00

	Measured	Calibrated mm
Pad 1	0.00	0.00
Pad 2	0.00	0.00
Pad 3	0.00	0.00
Pad 4	0.00	0.00

Last Calibration on: 1-JAN-1900 00:00

Pad Calibration — Measured Caliper (mm) — Actual Caliper (mm)

Pad 1	0.00	0.00
Pad 2	0.00	0.00
Pad 3	0.00	0.00
Pad 4	0.00	0.00

Calibration 1 — Measured — Calibrated API — Field Calibration on: 21-JUN-2006 00:00

Background	0.00	0.00
Pad Offset	0.00	0.00

Last Calibration on: 1-JAN-1900 00:00

Calibration 2 - 0B-0B1 — Measured — Calibrated API

Background	0.00	0.00
Pad Offset	0.00	0.00

Last Calibration on: 1-JAN-1900 00:00

Density Calibration - 0B-0B1 — N/A — Last Calibration on: 1-JAN-1900 00:00

Density Short Spacing Calibration - 0B-0B1 — N/A — Last Calibration on: 1-JAN-1900 00:00

Error Block

Error Number	131 Block
Error Description	Unknown Error Block

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-006
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
UWI	
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

Elevations: KB DF GL metres

Date	18-JUN-2009				
Run Number	1				
Depth Driller	179.04	metres			
Depth Logger	178.51	metres			
First Reading	175.01	metres			
Last Reading	0.00	metres			
Casing Driller	67.97	metres			
Casing Logger	67.97	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	RR5\DD6		544\691		
Equipment / Base	11536	RDR			
Recorded By	C.SHUPE				
Witnessed By	O.CULLINGHAM				

BOREHOLE RECORD

Last Edited: 17-JUN-2009 14:00

Bit Size millimetres	Depth From metres	Depth To metres
168.900	0.00	67.97
147.000	67.97	179.04

CASING RECORD

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

REMARKS

COORDINATES:
NORTHING:
5483070
EASTING:
365480

TOOL RUNS:
RR5, DD6, VO4

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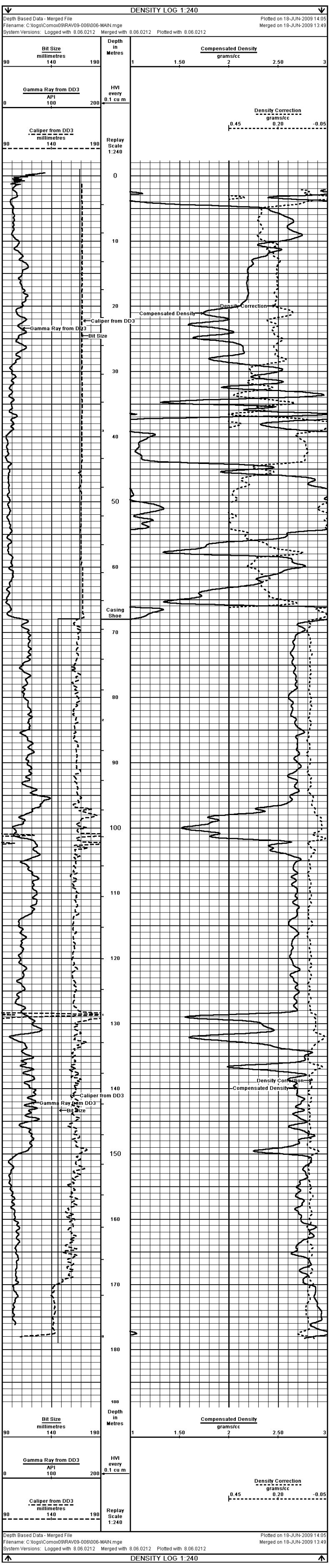
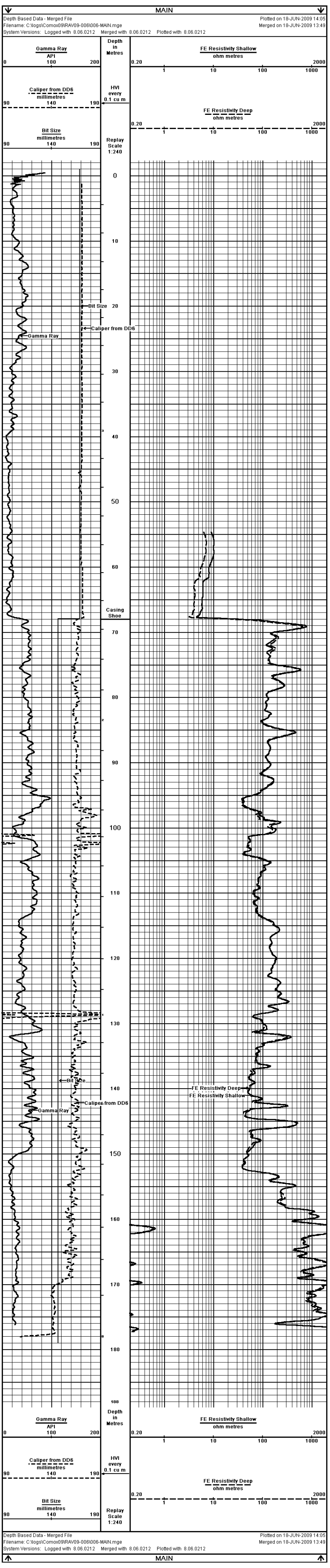




COMPANY	COMPLIANCE COAL CORP			
WELL	RAV09-006			
FIELD	UNDEFINED			
PROVINCE/COUNTY	BRITISH COLUMBIA			
COUNTRY/STATE	CANADA			
Elevation Kelly Bushing	metres	First Reading	175.01	metres
Elevation Drill Floor	metres	Depth Driller	179.04	metres
Elevation Ground Level	metres	Depth Logger	178.51	metres

Weatherford®

MINI PLOT

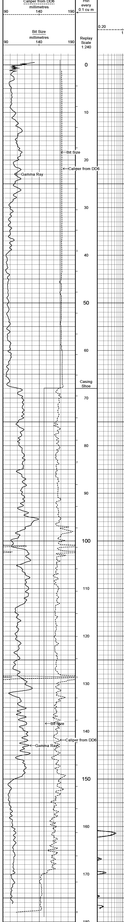
Gamma Ray	API	0	100
Caliper from DDK	millimetres	140	340
Bit Size	millimetres	140	340
FE Resistivity Deep	ohm metres	0.20	2000
FE Resistivity Shallow	ohm metres	0.20	2000

Depth Scale 1:240

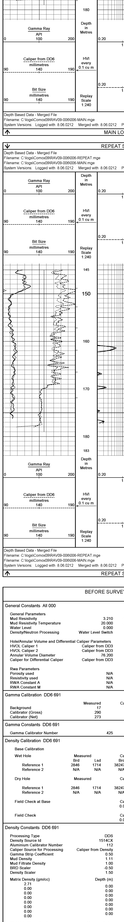
Depth Based Data - Merged File
Filename: C:\logs\Comeo0904\W05-0906D06-W05.mpr
System Versions: Logged with 5.06.0212 Merged with 6.06.0212 Plotted with 6.06.0212

Plotted on 16-JUN-2009 14:02
Merged on 16-JUN-2009 13:40

MAIN LOG 1:240



REPEAT SECTION



MAIN LOG 1:240

REPEAT SECTION

BEFORE SURVEY CALIBRATION

C:\logs\Comeo0904\W05-0906D06-W05.ldf

General Constants: All 000 — Last Edited on 17-JUN-2009,16:12

General Parameters		
Mud Resistivity	3.210	ohm-metres
Mud Resistivity Temperature	20.000	degrees C
Hole Diameter	140.000	millimetres
Density/Neutron Processing	Water Level Switch	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Caliper 2	Caliper from DDD	
HVOL Caliper 2	Caliper from DDD	
Hole Volume Calculation Diameter	140.000	mm
Caliper for Differential Caliper	Caliper from DDD	
Pass Parameters		
Partially used	N/A	
Repeatably used	N/A	
Pass Separation	N/A	
NMA Conductor W	N/A	

Gamma Calibration: DDB 691 — Field Calibration on 17-JUN-2009,18:53

	Measured	Calibrated (API)
Background	17	27
Calibrator (Low)	215	227
Calibrator (Red)	270	436

Gamma Constants: DDB 691 — Last Edited on 21-MAY-2009,10:49

Gamma Calibration Number 425

Density Calibration: DDB 691 — Last Edited on 17-JUN-2009,18:52 — Base Calibration on 17-JUN-2009,18:52 — Field Check on

Base Calibration

	Measured		Calibrated (lu/lu)	
Reference 1	Bot	Lsd	Bot	Lsd
Reference 1	2646	1714	36247	35026
Reference 2	N/A	N/A	N/A	N/A

Dry Hole

	Measured		Calibrated (lu/lu)	
Reference 1	2646	1714	36247	35026
Reference 2	N/A	N/A	N/A	N/A

Field Check at Base

	Calibrated (lu/lu)	
	0.0	0.0

Field Check

	Calibrated (lu/lu)	
	0.0	0.0

Density Constants: DDB 691 — Last Edited on 7-JUN-2009,09:29

Processing Type	DDS
Density Source id	1014CS
Density Calibration Number	1014CS
Caliper Density for Processing	Caliper from Density
Gamma Strip Coefficient	0.50
Density Strip Coefficient	0.50 gm/cc
Mud Filtrate Density	1.00 gm/cc
Mud Density	1.00
DDS Scaler	1.00
Matrix Density (gm/cc)	Depth (m)
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

Mid Hole Normalisation

Measured gm/cc	Calibrated gm/cc
BRD Pivot 1	1.00 1.00
BRD Pivot 2	1.00 1.00
LSD Pivot 1	1.00 1.00
LSD Pivot 2	1.00 1.00

Dry Hole Normalisation

Measured gm/cc	Calibrated gm/cc
BRD Pivot 1	1.00 1.00
BRD Pivot 2	1.00 1.00
LSD Pivot 1	1.00 1.00
LSD Pivot 2	1.00 1.00

Caliper Calibration: DDB 691 — Base Calibration on 17-JUN-2009,18:52 — Field Calibration on

Base Calibration

Reading No	Measured	Calibrator Size (mm)
1	2646	140.00
2	2340	101.60
3	2115	127.00
4	1714	140.00
5	3981	203.20
6	4079	254.00

Field Calibration

Measured	Calibrated (mm)
0.00	0.00

FE Calibration: RRS 544 — Field Calibration on 17-JUN-2009,18:48

	Measured		Calibrated (mm-m)	
	Shallow	Deep	Shallow	Deep
Reference 1	9490.0	4498.5	2.0	1.0
Reference 2	9502.0	5006.0	2756.0	1613.0

FE Constants: RRS 544 — Last Edited on 17-JUN-2009,18:49

FE Constant PCNV (deep / shallow)	2.100	
FE Constant Spacing (deep / shallow)	1.060	

Gamma Calibration: RRS 544 — Field Calibration on 17-JUN-2009,18:49

	Measured	Calibrated (API)
Background	16	27
Calibration (Green)	268	401
Calibrator (Red)	274	436

Gamma Constants: RRS 544 — Last Edited on 21-MAY-2009,10:49

Gamma Calibration Number 425

Resistivity Tool Constants: RRS 544 — Last Edited on 17-JUN-2009,18:49

Base Electrode to Tool (mm)	FE Mode 5879.00

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-005		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	Total Reading	175.01 metres
Elevation Ground	metres	First Reading	175.01 metres
Elevation Ground Level	metres	Depth Logged	179.01 metres

Weatherford

DUAL FOCUSSED ELECTRIC
GAMMA RAY, CALIPER

Date	Time	Depth	Operation	Comments
09/06/24	1:00			Arrive Weatherford Office
	2:00			Load Tools
	3:00			Depart Office
	4:00			Arrive Rig
	5:00			Rig Up
	6:00			Pump Pill
	7:00			Pump Pill
	8:00			Pump Pill
	9:00			Pump Pill
	10:00			Pump Pill
	11:00			Pump Pill
	12:00			Pump Pill
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	174:00			Pump Pill
	175:00			Pump Pill
	176:00			Pump Pill
	177:00			Pump Pill
	178:00			Pump Pill
	179:00			Pump Pill
	179.54			Pump Pill

Bit Size millimetres	Depth From metres	Depth To metres
152.40	0.00	179.54
127.000	87.87	179.54

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

REMARKS

COORDINATES
NORTHING
546970
EASTING
0054W

TOOL RUNS
WRL DDL VCH

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

Verticality Analysis Interpretation Notes

18-JUN-2009 13:54

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 1:60000(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 extracted depending on the total range of the analysis. However, the analysis is calculated for the entire range of the borehole and the final borehole inclination 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 generally caused by the presence of ferrous metal in the surroundings. 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 recorded depth on the field logs for the borehole.

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

HOLE TILT AND AZIMUTH — The sampled borehole orientation.

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

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

Verticality Data Listing

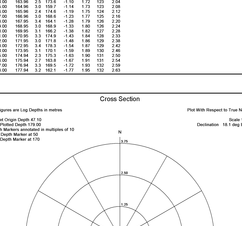
C:\logic\Cameo09\RAV09-0909\54 238 bl.dia
All Co-ordinates With Respect To True North, all depths in metres — Date Processed: 18-JUN-2009
Final Depth 47.10, 0.00 North, 0.00 East of Origin — Date Logg:18-Jun-09 01h00min00

DEPTHS		BOREHOLE		ABSAL CO-ORDS		POLAR	
Log	True	Tilt	Azi	North	East	Dng	Radius
46.00	46.00	0.5	263.6	0.00	0.32	0.02	0.00
49.00	49.00	0.0	198.1	0.00	0.32	0.02	0.00
50.00	50.00	0.0	198.1	0.00	0.32	0.02	0.00
51.00	51.00	0.6	186.9	0.01	-0.34	316	0.01
52.00	52.00	0.6	306.6	0.00	-0.01	305	-0.01
53.00	53.00	0.5	183.7	0.00	-0.01	297	-0.01
54.00	54.00	0.5	183.7	0.00	-0.01	297	-0.01
55.00	55.00	0.0	16.1	0.00	-0.01	297	-0.01
56.00	56.00	0.5	183.7	0.00	-0.01	297	-0.01
57.00	57.00	0.5	171.5	0.00	-0.01	297	-0.01
58.00	58.00	0.3	201.2	-0.00	-0.00	260	0.00
59.00	59.00	0.3	201.2	-0.00	-0.00	260	0.00
60.00	60.00	0.6	181.0	-0.01	-0.00	260	0.00
61.00	61.00	0.4	336.9	-0.01	-0.02	251	-0.02
62.00	62.00	0.4	336.9	-0.01	-0.02	251	-0.02
63.00	63.00	0.6	181.0	-0.01	-0.02	260	-0.02
64.00	64.00	0.9	345.8	0.02	-0.03	302	-0.03
65.00	65.00	1.1	122.0	0.04	-0.02	326	-0.05
66.00	66.00	1.5	122.0	0.04	-0.06	326	-0.05
67.00	67.00	1.3	47.6	0.05	-0.01	345	0.05
68.00	68.00	1.3	47.6	0.05	-0.01	345	0.05
69.00	69.00	1.3	47.6	0.05	-0.01	345	0.05
70.00	70.00	1.7	85.3	0.06	0.04	38	0.06
71.00	71.00	1.6	92.2	0.09	0.07	53	0.11
72.00	72.00	1.3	72.7	0.10	0.09	48	0.13
73.00	73.00	1.3	72.7	0.10	0.09	48	0.13
74.00	74.00	1.4	72.7	0.11	0.14	52	0.18
75.00	75.00	1.6	83.3	0.12	0.17	54	0.21
76.00	76.00	1.6	83.3	0.12	0.17	54	0.21
77.00	77.00	1.6	81.5	0.14	0.22	58	0.26
78.00	77.99	1.6	81.5	0.14	0.24	60	0.28
79.00	78.99	1.6	86.4	0.15	0.26	61	0.30
80.00	79.99	1.6	86.4	0.16	0.28	62	0.33
81.00	80.99	1.4	88.5	0.16	0.32	63	0.35
82.00	81.99	1.4	88.5	0.16	0.32	63	0.35
83.00	82.99	1.1	71.3	0.17	0.38	64	0.40
84.00	83.99	1.2	75.2	0.18	0.38	65	0.42
85.00	84.99	1.2	75.2	0.18	0.38	65	0.42
86.00	85.99	1.2	83.4	0.19	0.43	66	0.46
87.00	86.99	1.2	76.3	0.19	0.44	67	0.48
88.00	87.99	1.2	76.3	0.19	0.44	67	0.48
89.00	88.99	0.9	164.5	0.20	0.49	67	0.50
90.00	89.99	1.5	97.0	0.20	0.50	68	0.54
91.00	90.99	2.0	106.5	0.20	0.58	69	0.61
92.00	91.99	1.0	95.1	0.21	0.54	68	0.58
93.00	92.99	1.0	95.1	0.21	0.54	68	0.58
94.00	93.99	1.2	84.4	0.21	0.55	70	0.60
95.00	94.99	1.0	83.0	0.22	0.60	70	0.64
96.00	95.99	1.0	83.0	0.22	0.60	70	0.64
97.00	96.99	1.0	99.1	0.22	0.64	71	0.68
98.00	97.99	1.5	93.6	0.23	0.66	71	0.70
99.00	98.99	1.5	93.6	0.23	0.66	71	0.70
100.00	99.99	0.9	83.3	0.23	0.72	72	0.74
101.00	100.99	0.9	136.4	0.23	0.72	72	0.76
102.00	101.99	0.9	136.4	0.23	0.72	72	0.76
103.00	102.99	1.1	78.9	0.24	0.73	72	0.79
104.00	103.99	0.9	115.0	0.24	0.77	73	0.81
105.00	104.99	0.9	115.0	0.24	0.77	73	0.81
106.00	105.99	0.9	160.9	0.24	0.81	74	0.84
107.00	106.99	0.9	112.4	0.23	0.83	74	0.86
108.00	107.99	0.9	112.4	0.23	0.83	74	0.86
109.00	108.99	0.9	125.9	0.22	0.86	75	0.90
110.00	109.99	0.9	100.9	0.23	0.87	75	0.90
111.00	110.99	0.9	125.9	0.22	0.88	76	0.92
112.00	111.99	1.1	121.3	0.22	0.90	76	0.93
113.00	112.99	1.1	121.3	0.22	0.90	76	0.93
114.00	113.99	1.4	110.0	0.21	0.94	77	0.96
115.00	114.99	1.1	110.1	0.20	0.96	78	0.98
116.00	115.99	1.1	110.1	0.20	0.96	78	0.98
117.00	116.99	1.4	130.2	0.19	0.98	79	1.01
118.00	117.99	0.8	140.0	0.18	1.01	80	1.02
119.00	118.99	0.8	140.0	0.18	1.01	80	1.02
120.00	119.99	0.8	126.5	0.15	1.03	82	1.05
121.00	120.99	1.1	153.9	0.14	1.05	82	1.06
122.00	121.99	1.1	153.9	0.14	1.05	82	1.06
123.00	122.99	1.0	123.5	0.11	1.08	84	1.08
124.00	123.99	0.9	152.9	0.10	1.09	85	1.09
125.00	124.99	0.9	152.9	0.10	1.09	85	1.09
126.00	125.99	0.9	154.0	0.07	1.12	86	1.12
127.00	126.99	1.5	151.4	0.06	1.13	87	1.13
128.00	127.99	1.5	151.4	0.06	1.13	87	1.13
129.00	128.99	0.8	137.1	0.03	1.15	88	1.15
130.00	129.98	1.2	151.5	0.02	1.16	89	1.16
131.00	130.98	1.2	141.1	0.00	1.17	89	1.17
132.00	131.98	1.5	135.5	-0.01	1.18	91	1.18
133.00	132.98	1.5	135.5	-0.01	1.18	91	1.18
134.00	133.98	1.4	146.7	-0.04	1.21	92	1.21
135.00	134.98	1.4	146.7	-0.06	1.22	93	1.23
136.00	135.98	1.4	146.7	-0.06	1.22	93	1.23
137.00	136.98	1.1	161.2	-0.25	1.34	100	1.36
138.00	137.98	1.8	158.0	-0.12	1.27	96	1.27
139.00	138.98	1.8	158.0	-0.12	1.27	96	1.27
140.00	139.98	1.4	153.2	-0.17	1.32	98	1.33
141.00	140.98	1.5	174.9	-0.20	1.31	99	1.33
142.00	141.98	1.5	174.9	-0.20	1.31	99	1.33
143.00	142.98	2.0	161.2	-0.25	1.34	100	1.36
144.00	143.98	2.2	172.2	-0.29	1.36	102	1.39
145.00	144.98	2.2	172.2	-0.29	1.36	102	1.39
146.00	145.98	2.7	159.4	-0.35	1.39	104	1.43
147.00	146.98	2.4	166.7	-0.38	1.40	105	1.45
148.00	147.98	2.4	166.7	-0.38	1.40	105	1.45
149.00	148.98	2.7	162.5	-0.46	1.44	108	1.51
150.00	149.97	2.7	163.4	-0.49	1.46	109	1.54
151.00	150.97	2.7	163.4	-0.49	1.46	109	1.54
152.00	151.97	3.0	165.1	-0.62	1.51	112	1.63
153.00	152.97	3.0	165.1	-0.62	1.51	112	1.63
154.00	153.97	2.4	168.4	-0.70	1.55	114	1.70
155.00	154.97	2.4	168.4	-0.70	1.55	114	1.70
156.00	155.97	2.7	165.1	-0.76	1.57	116	1.76
157.00	156.97	3.0	168.6	-0.83	1.61	117	1.81
158.00	157.97	3.0	168.6	-0.83	1.61	117	1.81
159.00	158.97	3.0	172.2	-0.92	1.64	119	1.88
160.00	159.96	2.7	169.2	-0.96	1.66	120	1.92
161.00	160.96	2.7	169.2	-0.96	1.66	120	1.92
162.00	161.96	2.5	173.6	-1.05	1.69	122	2.00
163.00	162.96	2.5	173.6	-1.10	1.72	123	2.04
164.00	163.96	2.2	174.7	-1.14	1.73	124	2.06
165.00	164.96	2.2	174.7	-1.19	1.75	125	2.12
166.00	165.96	3.0	168.4	-1.23	1.77	125	2.16
167.00	166.96	3.0	168.4	-1.23	1.77	125	2.16
168.00	167.96	3.0	168.5	-1.33	1.80	128	2.24
169.00	168.96	3.5	169.2	-1.38	1.82	127	2.28
170.00	169.95	3.5	169.2	-1.38	1.82	127	2.28
171.00	170.95	3.5	174.9	-1.46	1.84	128	2.35
172.00	171.95	3.4	176.5	-1.54	1.87	129	2.42
173.00	172.95	3.4	176.5	-1.54	1.87	129	2.42
174.00	173.94	2.3	175.3	-1.60	1.90	131	2.50
175.00	174.94	2.3	175.3	-1.63	1.91	132	2.54
176.00	175.94	3.5	169.5	-1.72	1.93	132	2.58
177.00	176.94	3.5	169.5	-1.72	1.93	132	2.58
178.00	177.94	3.2	162.1	-1.77	1.95	132	2.63

Cross Section

All Figures are Log Depths in metres — Plot With Respect To True North

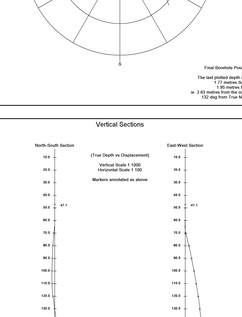
Target Origin Depth 47.10 — Scale 1:50
Last Plotted Depth 179.00 — Declination 16.1 deg East
Depth Markers annotated in multiples of 10
First Depth Marker at 50
Last Depth Marker at 170



Vertical Sections

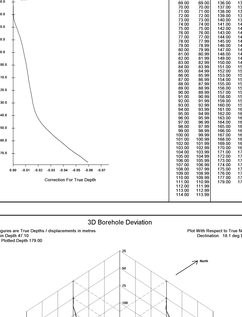
North-South Section — East-West Section

(True Depth vs Displacement)
Vertical Scale 1:1000
Horizontal Scale 1:100
Markers annotated as above



Depth Correction Analysis

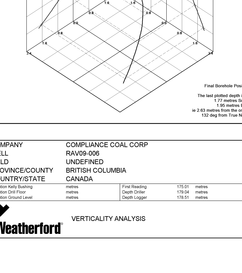
Vertical Scale 1:1000
Horizontal Scale 1:1



Depths		Depths	
Log	True	Log	True
46.00	46.00	115.00	114.99
49.00	49.00	116.00	115.99
50.00	50.00	117.00	116.99
51.00	51.00	118.00	117.99
52.00	52.00	119.00	118.99
53.00	53.00	120.00	119.99
54.00	54.00	121.00	120.99
55.00	55.00	122.00	121.99
56.00	56.00	123.00	122.99
57.00	57.00	124.00	123.99
58.00	58.00	125.00	124.99
59.00	59.00	126.00	125.99
60.00	60.00	127.00	126.99
61.00	61.00	128.00	127.99
62.00	62.00	129.00	128.99
63.00	63.00	130.00	129.99
64.00	64.00	131.00	130.99
65.00	65.00	132.00	131.98
66.00	66.00	133.00	132.98
67.00	67.00	134.00	133.98
68.00	68.00	135.00	134.98
69.00	69.00	136.00	135.98
70.00	70.00	137.00	136.98
71.00	71.00	138.00	137.98
72.00	72.00	139.00	138.98
73.00	73.00	140.00	139.98
74.00	74.00	141.00	140.98
75.00	75.00	142.00	141.98
76.00	76.00	143.00	142.98
77.00	77.00	144.00	143.98
78.00	78.00	145.00	144.98
79.00	79.00	146.00	145.98
80.00	80.00	147.00	146.98
81.00	81.00	148.00	147.98
82.00	82.00	149.00	148.98
83.00	83.00	150.00	149.97
84.00	84.00	151.00	150.97
85.00	85.00	152.00	151.97
86.00	86.00	153.00	152.97
87.00	87.00	154.00	153.97
88.00	88.00	155.00	154.97
89.00	89.00	156.00	155.97
90.00	90.00	157.00	156.97
91.00	91.00	158.00	157.97
92.00	92.00	159.00	158.97
93.00	93.00	160.00	159.96
94.00	94.00	161.00	160.96
95.00	95.00	162.00	161.96
96.00	96.00	163.00	162.96
97.00	97.00	164.00	163.96
98.00	98.00	165.00	164.96
99.00	99.00	166.00	165.96
100.00	100.00	167.00	166.96
101.00	101.00	168.00	167.96
102.00	102.00	169.00	168.96
103.00	103.00	170.00	169.95
104.00	104.00	171.00	170.95
105.00	105.00	172.00	171.95
106.00	106.00	173.00	172.95
107.00	107.00	174.00	173.94
108.00	108.00	175.00	174.94
109.00	109.00	176.00	175.94
110.00	110.00	177.00	176.94
111.00	111.00	178.00	177.94
112.00	112.00		
113.00	113.00		
114.00	114.00		

3D Borehole Deviation

All figures are True Depths / displacements in metres — Plot With Respect to True North
Origin Depth 47.10 — Declination 16.1 deg East
Last Plotted Depth 179.00



COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-006
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	Final Reading	175.01	metres
Elevation Drill Floor	metres	Depth Drller	179.04	metres
Elevation Ground Level	metres	Depth Logger	179.01	metres

Weatherford — VERTICALITY ANALYSIS

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-006
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Location Key Reading	metres
Elevation Drill Floor	metres
Elevation Ground Level	metres

Final Reading	175.01	metres	
Depth Order	175.04	metres	
Depth Logger	174.91	metres	

Weatherford

COAL LITHOLOGY
GAMMA RAY, CALIPER

COAL LITHOLOGY
GAMMA RAY, CALIPER

COMPLIANCE COAL CORP
RAV09-006
UNDEFINED
BRITISH COLUMBIA
CANADA

BOREHOLE RECORD

Last Edited: 17-JUN-2009 14:30

Bit Size millimetres	Depth From metres	Depth To metres
168.900	67.97	67.97
147.000	67.97	179.04

CASING RECORD

Type	Size millimetres	Depth From metres	Drive Depth metres	Weight kg/metre
Casing	168.900	0.00	67.97	

REMARKS

COORDINATES
ELEVATION:
TARGETS:
SAMPLING:
RHABD:

DENSITY AND NEUTRON LOGGED THROUGH RODS

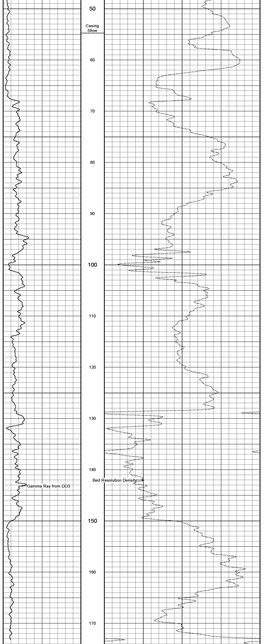
DENSITY BEGAN LOGGING AT 175.15 TO AVOID CATCHING TOOL ON BOTTOM HOLE ASSEMBLY.

SUN 1
CWL DOB

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.

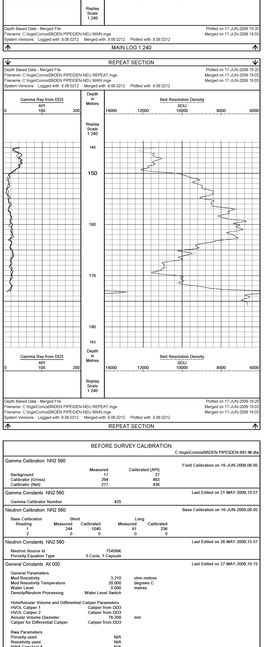
MAIN LOG 1:240

Depth Based Data - Merged File — Printed on 17-JUN-2009 19:25
Filename: C:\logic\Comox\BIDEN PIPECKEN-NEU BRN.mge — Merged on 17-JUN-2009 19:03
System Versions: Logged with: 8.06.02/12 Merged with: 8.06.02/12 Plotted with: 8.06.02/12



REPEAT SECTION

Depth Based Data - Merged File — Printed on 17-JUN-2009 19:25
Filename: C:\logic\Comox\BIDEN PIPECKEN-NEU REPEAT.mge — Merged on 17-JUN-2009 19:03
System Versions: Logged with: 8.06.02/12 Merged with: 8.06.02/12 Plotted with: 8.06.02/12



BEFORE SURVEY CALIBRATION

C:\logic\Comox\BIDEN PIPECKEN-091-W.dbs

Gamma Calibration NN2 560 — Field Calibration on 16-JUN-2009,06:05

	Measured	Calibrated (API)
Background	17	27
Calibrator (Cones)	284	463
Calibrator (Net)	277	436

Gamma Constants NN2 560 — Last Edited on 21-MAY-2009,10:57

Gamma Calibrator Number 425

Neutron Calibration NN2 560 — Base Calibration on 16-JUN-2009,06:05

Base Calibration Reading	Short Measured	Short Calibrated	Long Measured	Long Calibrated
1	344	1040	61	236
0	0	0	0	0

Neutron Constants NN2 560 — Last Edited on 26-MAY-2009,11:57

Neutron Source Id 254996
Porosity Equation Type 3 Curve, 1 Capacity

General Constants All 000 — Last Edited on 27-MAY-2009,10:15

General Parameters		
Mud Resistivity	3.210	ohm-metres
Formation Temperature	0.000	degrees
Water Level	0.000	metres
Density/Neutron Processing	Water Level Switch	
Hole/Annular Volume and Differential Calipers Parameters		
HVCL Caliper 1	Caliper from DD3	
HVCL Caliper 2	Caliper from DD3	
Annular Volume Diameter	168.200	mm
Caliper for Differential Caliper	Caliper from DD3	
Bias Processing		
Resistivity used	N/A	
Resistivity used	N/A	
XWA Constant A	N/A	
XWA Constant B	N/A	

Gamma Calibration DD6 691 — Field Calibration on 16-JUN-2009,06:02

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

Gamma Constants DD6 691 — Last Edited on 21-MAY-2009,10:48

Gamma Calibrator Number 425

Density Calibration DD6 691 — Base Calibration on 16-JUN-2009,06:02
Field Check on

Base Calibration			
Wet Hole	Measured Short	Measured Long	Calibrated (sdu) Short Long
Reference 1	1848	1714	36247 30026
Reference 2	N/A	N/A	N/A N/A
Dry Hole	Measured		Calibrated (sdu)
Reference 1	2846	1714	36247 30026
Reference 2	N/A	N/A	N/A N/A
Field Check at Base			Calibrated (sdu) 0.0 0.0
Field Check			Calibrated (sdu) 0.0 0.0

Density Constants DD6 691 — Last Edited on 3-JUN-2009,09:29

Processing Type	DDS
Density Source Id	151413CE
Density Equation Table Number	1
Caliper Source for Processing	Caliper from Density
Gamma Strip Coefficient	0.50
Density Caliper	1.00 gm/cc
Mud Filtrate Density	1.00 gm/cc
SRD Scaler	-0.50
Density Scaler	1.00

Matrix density (gm/cc) — Depth (m)

2.65	0.00
2.65	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

Wet Hole Normalisation	Measured gmc	Calibrated gmc
SRD Pass1 1	1.00	1.00
SRD Pass1 2	3.00	3.00
LSD Pass1 1	1.00	1.00
LSD Pass1 2	3.00	3.00

Dry Hole Normalisation	Measured gmc	Calibrated gmc
SRD Pass1 1	1.00	1.00
SRD Pass1 2	3.00	3.00
LSD Pass1 1	1.00	1.00
LSD Pass1 2	3.00	3.00

Caliper Calibration DD6 691 — Base Calibration on 16-JUN-2009,06:02
Field Calibration on

Reading No	Measured	Calibrator Size (mm)
1	1962	76.20
2	2583	101.60
3	3183	152.40
4	3183	152.40
5	3583	203.20
6	4078	254.00

Field Calibration

Measured Calibrator (mm)	Actual Calibrator (mm)
0.00	0.00

Date	Time	Depth	Comment
17-JUN-2009	14:00	0.0	Start Logging Down
17-JUN-2009	14:05	0.0	Logging Down at 30 m/min
17-JUN-2009	14:15	0.0	Logging Down at 15 m/min
17-JUN-2009	14:20	0.0	Logging Down at 30 m/min
17-JUN-2009	14:25	0.0	Logging Down at 15 m/min
17-JUN-2009	14:30	0.0	Logging Down at 30 m/min
17-JUN-2009	14:35	0.0	Logging Down at 15 m/min
17-JUN-2009	14:40	0.0	Logging Down at 30 m/min
17-JUN-2009	14:45	0.0	Logging Down at 15 m/min
17-JUN-2009	14:50	0.0	Logging Down at 30 m/min
17-JUN-2009	14:55	0.0	Logging Down at 15 m/min
17-JUN-2009	15:00	0.0	Logging Down at 30 m/min
17-JUN-2009	15:05	0.0	Logging Down at 15 m/min
17-JUN-2009	15:10	0.0	Logging Down at 30 m/min
17-JUN-2009	15:15	0.0	Logging Down at 15 m/min
17-JUN-2009	15:20	0.0	Logging Down at 30 m/min
17-JUN-2009	15:25	0.0	Logging Down at 15 m/min
17-JUN-2009	15:30	0.0	Logging Down at 30 m/min
17-JUN-2009	15:35	0.0	Logging Down at 15 m/min
17-JUN-2009	15:40	0.0	Logging Down at 30 m/min
17-JUN-2009	15:45	0.0	Logging Down at 15 m/min
17-JUN-2009	15:50	0.0	Logging Down at 30 m/min
17-JUN-2009	15:55	0.0	Logging Down at 15 m/min
17-JUN-2009	16:00	0.0	Logging Down at 30 m/min
17-JUN-2009	16:05	0.0	Logging Down at 15 m/min
17-JUN-2009	16:10	0.0	Logging Down at 30 m/min
17-JUN-2009	16:15	0.0	Logging Down at 15 m/min
17-JUN-2009	16:20	0.0	Logging Down at 30 m/min
17-JUN-2009	16:25	0.0	Logging Down at 15 m/min
17-JUN-2009	16:30	0.0	Logging Down at 30 m/min
17-JUN-2009	16:35	0.0	Logging Down at 15 m/min
17-JUN-2009	16:40	0.0	Logging Down at 30 m/min
17-JUN-2009	16:45	0.0	Logging Down at 15 m/min
17-JUN-2009	16:50	0.0	Logging Down at 30 m/min
17-JUN-2009	16:55	0.0	Logging Down at 15 m/min
17-JUN-2009	17:00	0.0	Logging Down at 30 m/min
17-JUN-2009	17:05	0.0	Logging Down at 15 m/min
17-JUN-2009	17:10	0.0	Logging Down at 30 m/min
17-JUN-2009	17:15	0.0	Logging Down at 15 m/min
17-JUN-2009	17:20	0.0	Logging Down at 30 m/min
17-JUN-2009	17:25	0.0	Logging Down at 15 m/min
17-JUN-2009	17:30	0.0	Logging Down at 30 m/min
17-JUN-2009	17:35	0.0	Logging Down at 15 m/min
17-JUN-2009	17:40	0.0	Logging Down at 30 m/min
17-JUN-2009	17:45	0.0	Logging Down at 15 m/min
17-JUN-2009	17:50	0.0	Logging Down at 30 m/min
17-JUN-2009	17:55	0.0	Logging Down at 15 m/min
17-JUN-2009	18:00	0.0	Logging Down at 30 m/min
17-JUN-2009	18:05	0.0	Logging Down at 15 m/min
17-JUN-2009	18:10	0.0	Logging Down at 30 m/min
17-JUN-2009	18:15	0.0	Logging Down at 15 m/min
17-JUN-2009	18:20	0.0	Logging Down at 30 m/min
17-JUN-2009	18:25	0.0	Logging Down at 15 m/min
17-JUN-2009	18:30	0.0	Logging Down at 30 m/min
17-JUN-2009	18:35	0.0	Logging Down at 15 m/min
17-JUN-2009	18:40	0.0	Logging Down at 30 m/min
17-JUN-2009	18:45	0.0	Logging Down at 15 m/min
17-JUN-2009	18:50	0.0	Logging Down at 30 m/min
17-JUN-2009	18:55	0.0	Logging Down at 15 m/min
17-JUN-2009	19:00	0.0	Logging Down at 30 m/min
17-JUN-2009	19:05	0.0	Logging Down at 15 m/min
17-JUN-2009	19:10	0.0	Logging Down at 30 m/min
17-JUN-2009	19:15	0.0	Logging Down at 15 m/min
17-JUN-2009	19:20	0.0	Logging Down at 30 m/min
17-JUN-2009	19:25	0.0	Logging Down at 15 m/min
17-JUN-2009	19:30	0.0	Logging Down at 30 m/min
17-JUN-2009	19:35	0.0	Logging Down at 15 m/min
17-JUN-2009	19:40	0.0	Logging Down at 30 m/min
17-JUN-2009	19:45	0.0	Logging Down at 15 m/min
17-JUN-2009	19:50	0.0	Logging Down at 30 m/min
17-JUN-2009	19:55	0.0	Logging Down at 15 m/min
17-JUN-2009	20:00	0.0	Logging Down at 30 m/min
17-JUN-2009	20:05	0.0	Logging Down at 15 m/min
17-JUN-2009	20:10	0.0	Logging Down at 30 m/min
17-JUN-2009	20:15	0.0	Logging Down at 15 m/min
17-JUN-2009	20:20	0.0	Logging Down at 30 m/min
17-JUN-2009	20:25	0.0	Logging Down at 15 m/min
17-JUN-2009	20:30	0.0	Logging Down at 30 m/min
17-JUN-2009	20:35	0.0	Logging Down at 15 m/min
17-JUN-2009	20:40	0.0	Logging Down at 30 m/min
17-JUN-2009	20:45	0.0	Logging Down at 15 m/min
17-JUN-2009	20:50	0.0	Logging Down at 30 m/min
17-JUN-2009	20:55	0.0	Logging Down at 15 m/min
17-JUN-2009	21:00	0.0	Logging Down at 30 m/min
17-JUN-2009	21:05	0.0	Logging Down at 15 m/min
17-JUN-2009	21:10	0.0	Logging Down at 30 m/min
17-JUN-2009	21:15	0.0	Logging Down at 15 m/min
17-JUN-2009	21:20	0.0	Logging Down at 30 m/min
17-JUN-2009	21:25	0.0	Logging Down at 15 m/min
17-JUN-2009	21:30	0.0	Logging Down at 30 m/min
17-JUN-2009	21:35	0.0	Logging Down at 15 m/min
17-JUN-2009	21:40	0.0	Logging Down at 30 m/min
17-JUN-2009	21:45	0.0	Logging Down at 15 m/min
17-JUN-2009	21:50	0.0	Logging Down at 30 m/min
17-JUN-2009	21:55	0.0	Logging Down at 15 m/min
17-JUN-2009	22:00	0.0	Logging Down at 30 m/min
17-JUN-2009	22:05	0.0	Logging Down at 15 m/min
17-JUN-2009	22:10	0.0	Logging Down at 30 m/min
17-JUN-2009	22:15	0.0	Logging Down at 15 m/min
17-JUN-2009	22:20	0.0	Logging Down at 30 m/min
17-JUN-2009	22:25	0.0	Logging Down at 15 m/min
17-JUN-2009	22:30	0.0	Logging Down at 30 m/min
17-JUN-2009	22:35	0.0	Logging Down at 15 m/min
17-JUN-2009	22:40	0.0	Logging Down at 30 m/min
17-JUN-2009	22:45	0.0	Logging Down at 15 m/min
17-JUN-2009	22:50	0.0	Logging Down at 30 m/min
17-JUN-2009	22:55	0.0	Logging Down at 15 m/min
17-JUN-2009	23:00	0.0	Logging Down at 30 m/min
17-JUN-2009	23:05	0.0	Logging Down at 15 m/min
17-JUN-2009	23:10	0.0	Logging Down at 30 m/min
17-JUN-2009	23:15	0.0	Logging Down at 15 m/min
17-JUN-2009	23:20	0.0	Logging Down at 30 m/min
17-JUN-2009	23:25	0.0	Logging Down at 15 m/min
17-JUN-2009	23:30	0.0	Logging Down at 30 m/min
17-JUN-2009	23:35	0.0	Logging Down at 15 m/min
17-JUN-2009	23:40	0.0	Logging Down at 30 m/min
17-JUN-2009	23:45	0.0	Logging Down at 15 m/min
17-JUN-2009	23:50	0.0	Logging Down at 30 m/min
17-JUN-2009	23:55	0.0	Logging Down at 15 m/min
17-JUN-2009	24:00	0.0	Logging Down at 30 m/min

NEUTRON POROSITY
GAMMA RAY, CALIPER

COMPANY COMPLIANCE COAL CORP
WELL RAV09-005
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Elevation Kelly Bushing metres
Elevation Ground Level metres
Permanent Datum Log Measured From metres
Log Measured From metres
Drilling Measured From metres

Total Depth	179.01	metres	
First Reading	179.01	metres	
Last Reading	0.00	metres	
Depth Logged	179.01	metres	

Weatherford

NEUTRON POROSITY
GAMMA RAY, CALIPER

BOREHOLE RECORD

Bit Size millimetres	Depth From metres	Depth To metres
140.00	0.00	179.01
	17.37	179.04

Last Edited: 17-JUN-2009 14:05
Hole Fluid: water

CASING RECORD

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

REMARKS

COORDINATES
NORTHING
EASTING
CASING
DENSITY

DENSITY AND NEUTRON LOGGED THROUGH RODS

DENSITY BEGAN LOGGING AT 175.01 TO AVOID CATCHING TOOL ON BOTTOM HOLE ASSEMBLY.

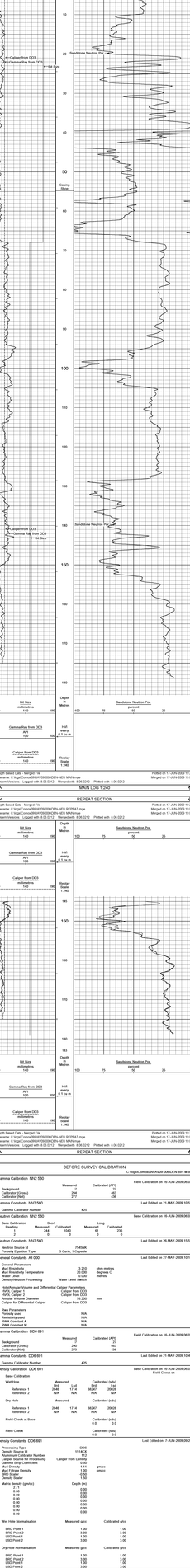
SLN 1
SRN, DOB

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 as our price schedule.

MAIN LOG 1:240

Depth Based Data - Merged File
Filename: C:\logs\Cores\RAV09-005\RAV09-005DEN.NEU MAIN.mge
System Version: Logged with 8.08.0212 Merged with 8.08.0212 Plotted with 8.08.0212

Plotted on 17-JUN-2009 19:24
Merged on 17-JUN-2009 19:05



REPEAT SECTION

Depth Based Data - Merged File
Filename: C:\logs\Cores\RAV09-005\RAV09-005DEN.NEU REPEAT.mge
System Version: Logged with 8.08.0212 Merged with 8.08.0212 Plotted with 8.08.0212

Plotted on 17-JUN-2009 19:24
Merged on 17-JUN-2009 19:05

BEFORE SURVEY CALIBRATION

C:\logs\Cores\RAV09-005\DEN.001.W.dfs

Gamma Calibration NH2 560 — Field Calibration on 16-JUN-2009,06:09

	Measured	Calibrated (API)
Background	17	27
Calibrator (Low)	144	150
Calibrator (Hot)	277	436

Gamma Constants NH2 560 — Last Edited on 31-MAY-2009,15:57

Gamma Calibrator Number: 425

Neutron Calibration NH2 560 — Base Calibration on 16-JUN-2009,06:09

Base Calibration Reading	Short Calibrated	Long Measured	Calibrated
1	244	1040	0
2	0	0	0

Neutron Constants NH2 560 — Last Edited on 26-MAY-2009,15:57

Neutron Source Id	15459K
Porosity Equation Type	3 Curve, 1 Capacity

General Constants: All 000 — Last Edited on 27-MAY-2009,10:15

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	Caliper from DC0	
HVOL Caliper 2	N/A	
Annular Volume Diameter	156.000	mm
Caliper for Differential Caliper	Caliper from DC0	
Bias Parameters		
Porosity used	N/A	
Density used	N/A	
PEMA Constant A	N/A	
PEMA Constant M	N/A	

Gamma Calibration: DD6 891 — Field Calibration on 16-JUN-2009,06:02

	Measured	Calibrated (API)
Background	17	27
Calibration (Grass)	180	440
Calibrator (Hot)	273	436

Gamma Constants: DD6 891 — Last Edited on 27-MAY-2009,10:49

Gamma Calibrator Number: 425

Density Calibration: DD6 891 — Base Calibration on 16-JUN-2009,06:02
Field Check on

Base Calibration

	Measured	Calibrated (sdu)
Reference 1	1ed	1ed
Reference 2	N/A	N/A

Dry Hole

	Measured	Calibrated (sdu)
Reference 1	2646	1714
Reference 2	N/A	N/A

	Measured	Calibrated (sdu)
Reference 1	3636?	3002ft
Reference 2	N/A	N/A

Field Check at Base

	Calibrated (sdu)
0.0	0.0

Field Check

	Calibrated (sdu)
0.0	0.0

Density Constants: DD6 891 — Last Edited on 7-JUN-2009,09:24

Processing Type	DD6
Density Source	15459K
Aluminum Calibrator Number	112
Density Equation Type for Processing	Caliper from DC0
Caliper Source	N/A
Mud Density	1.11
Fluid Type Density	1.00
MSD Scaler	-0.10
MSD Shifter	1.50

Matrix density (grams)

	Depth (m)
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

Wet Hole Normalization

	Measured g/cc	Calibrated g/cc
SRD Point 1	1.00	1.00
SRD Point 2	1.00	1.00
LRD Point 1	3.00	3.00
LRD Point 2	3.00	3.00

Dry Hole Normalization

	Measured g/cc	Calibrated g/cc
SRD Point 1	1.00	1.00
SRD Point 2	3.00	3.00
LRD Point 1	3.00	3.00
LRD Point 2	3.00	3.00

Calipter Calibration: DD6 891 — Base Calibration on 16-JUN-2009,06:09
Field Calibration on

Base Calibration

Reading No	Measured	Calibrator Size (mm)
1	1962	76.20
2	2343	101.60
3	2724	127.00
4	3103	152.40
5	3983	203.20
6	4079	254.00

Field Calibration

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

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-007
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	255.24 metres
Elevation Drill Floor	255.70 metres
Elevation Ground Level	255.19 metres
Log Date	20-JUN-2009
Run Number	1
Depth Driller	258.00 metres
Depth Logger	256.90 metres
Bottom Log Interval	256.90 metres
Top Log Interval	0.00 metres
Drilling Fluid Type	WATER
Drill Bit Size	76.2 mm
Drill Collar Length	5.50 metres
Drill Pipe Length	0.00 metres
Drill Pipe Diameter	0.00 mm
Max Logged Temp	20.0 degrees C
Max Recorded Temp	20.0 degrees C
Bottom Hole Temperature	20.0 degrees C
Equipment Name	3-1-DPU-009
Logging Unit Number	3
Logging Company	CGG
Logging Engineer	D. LEGRAND
Operating Rig Time	0.5 hours
Recorded By	D. LEGRAND
Witnessed By	D. LEGRAND

BOREHOLE RECORD

Last Edited: 20-JUN-2009 21:24

Bit Size millimetres	Depth From metres	Depth To metres
107.000	0.00	5.90
101.500	5.90	308.51

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
Surface	101.500	0.00	5.90	

REMARKS

STOPPED LOGGING DENSITY AT 58M DUE TO TOOL GETTING STUCK

PULLED THROUGH TIGHT SPOT AND CONTINUED LOGGING AT 58M

DUE TO GAP IN DENSITY DATA, AN UPPER AND LOWER SET OF LOGS GIVEN

WELL FLOWING

COORDINATES:
NORTHING:
EASTING:
ZEROS:

RUN 1
DFE: DDB

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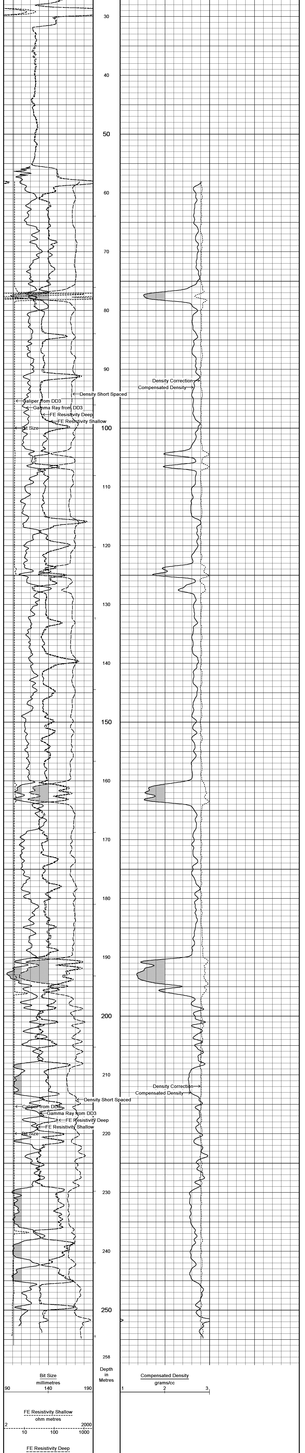
COMPOSITE LOG 1:240

Depth Based Data - Merged File
Filename: C:\logic\Comcol09RAV09-007RAV09-007 MAIN LOW.mge
System Versions: Logged with 6.06.0212 Merged with 6.06.0212 Plotted with 6.06.0212

Plotted on 20-JUN-2009 22:22
Merged on 20-JUN-2009 20:56



Depth Based Data - Merged File
Filename: C:\logic\Comcol09RAV09-007RAV09-007 MAIN LOW.mge
System Versions: Logged with 6.06.0212 Merged with 6.06.0212 Plotted with 6.06.0212

Plotted on 20-JUN-2009 22:22
Merged on 20-JUN-2009 20:56

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-007
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	255.24	metres
Elevation Drill Floor	metres	Depth Driller	255.70	metres
Elevation Ground Level	metres	Depth Logger	255.19	metres

Weatherford

COMPOSITE COAL LOG

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-007
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
UWI	
LSD / SEC / TWP / RGE	
Licence Number	
Other Services	

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

Date	20-JUN-2009	
Run Number	1	
Depth Driller	255.70	metres
Depth Logger	255.19	metres
First Reading	50.01	metres
Last Reading	0.00	metres
Casing Driller	4.50	metres
Casing Logger	5.90	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	RR5,DD6	544,691
Equipment / Base	11536 RDR	
Recorded By	D.SIGSTAD	
Witnessed By	O.CULLINGHAM	

BOREHOLE RECORD

Last Edited: 20-JUN-2009 21:24

Bit Size millimetres	Depth From metres	Depth To metres
107.000	0.00	5.90
101.300	5.90	308.51

CASING RECORD

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

REMARKS

STOPPED LOGGING DENSITY AT 58M DUE TO TOOL GETTING STUCK.

PULLED THROUGH TIGHT SPOT AND CONTINUED LOGGING AT 50M.

DUE TO GAP IN DENSITY DATA, AN UPPER AND LOWER SET OF LOGS GIVEN.

WELL FLOWING

COORDINATES:
NORTHING:
5485340
EASTING:
363730

RUN 1
DFE, DD6

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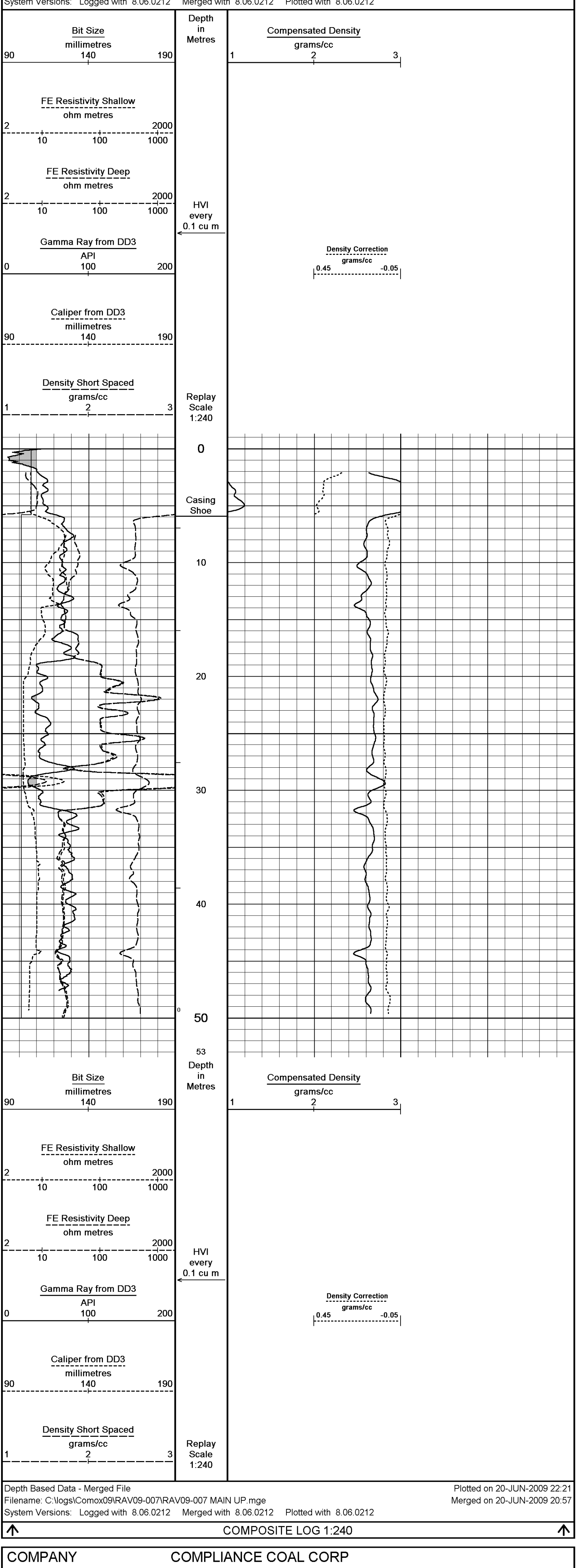
COMPOSITE LOG 1:240

Depth Based Data - Merged File — Plotted on 20-JUN-2009 22:21
Filename: C:\logs\Comox09\RAV09-007\RAV09-007 MAIN UP.mge — Merged on 20-JUN-2009 20:57
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-JUN-2009 22:21
Filename: C:\logs\Comox09\RAV09-007\RAV09-007 MAIN UP.mge — Merged on 20-JUN-2009 20:57
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	RAV09-007
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres		First Reading	50.01	metres
Elevation Drill Floor	metres		Depth Driller	255.70	metres
Elevation Ground Level	metres		Depth Logger	255.19	metres

Weatherford®

COMPOSITE COAL LOG

CHAMPIONS CHOICE
CHAMPIONS CHOICE 1-10-H1
CHAMPIONS CHOICE 1-10-H1 CORE DETAIL

SUMMARY

DRILLING FROM 2000FT TO 9000FT TO 10,000FT

DRILLING FROM 2000FT TO 9000FT TO 10,000FT

CORE 1 FROM 9000FT TO 9000FT, 100% OF CORE RECOVERED

CORE 2 FROM 9000FT TO 9000FT, 100% OF CORE RECOVERED

CORE 3 FROM 9000FT TO 9000FT, 100% OF CORE RECOVERED

CORE 4 FROM 9000FT TO 9000FT, 100% OF CORE RECOVERED

CORE 5 FROM 9000FT TO 9000FT, 100% OF CORE RECOVERED

CORE 6 FROM 9000FT TO 9000FT, 100% OF CORE RECOVERED

CORE 7 FROM 9000FT TO 9000FT, 100% OF CORE RECOVERED

CORE 8 FROM 9000FT TO 9000FT, 100% OF CORE RECOVERED

CORE 9 FROM 9000FT TO 9000FT, 100% OF CORE RECOVERED

CORE 10 FROM 9000FT TO 9000FT, 100% OF CORE RECOVERED

BUSHELS RECOVERED			
Bushels Recovered		Average % Recovery	
0		0.00	
Total Bushels		Total % Recovery	
0		0.00	
CORE DETAIL TABLE			
Core Number	Depth Cored	Depth Recovered	Recovery %
1	9000	9000	100

CORE DETAIL TABLE

Company: Champions Choice Core Number: 1 Date: 01-10-2013 Depth: 9000 to 9000 Recovered: 9000 Recovery: 100.00 %

Core Type: Conventional Bit Type: Diamond Bit Size: 4.00 in Hole Size: 4.00 in Mud Type: Water Based Mud Mud Wt: 8.4 ppg Temp: 70 F

Drilling Time: Begin: 00:00 End: 00:00 Total: 00:00 Average: 0.00 min/ft

Drilling Parameters: Weight On Bit: 0 klbs Rotary Speed: 0 rpm Pump Pressure: 0 psi Pump Rate: 0 gpm

Core Description: Core Hardness: Core Color: Core Texture: Core Fracture: Core Porosity: Core Fluid: Core Odor: Core Other:

Depth Scale: 1:240 Imperial

Bit Size 4.00 in | Core Barrel Size 4.00 in | Core Diameter 4.00 in | Core Length 30.00 ft | Core Number 1 | Core Type Conventional | Core Bit Diamond | Core Orientation Vertical | Core Dip Angle 0.00 | Core Azimuth 0.00 | Depth Reference Measured Depth | Core Depth Reference Measured Depth

Gamma Ray (API) 0 – 150 | Caliper (in) 4.00 – 14.00 | Density (g/cc) 1.95 – 2.95 | Neutron Porosity (%) 45 – -15

Core Depth (ft) 9000 – 9030 | Measured Depth (ft) 9000 – 9030

Core Photo: Not Available

Core Description: Core Hardness: Core Color: Core Texture: Core Fracture: Core Porosity: Core Fluid: Core Odor: Core Other:

Core Analysis: Core Analysis Method: Core Analysis Date: Core Analysis Company: Core Analysis Comments:

Core Analysis Data: Core Analysis Data Not Available

Core Analysis Graph: Core Analysis Graph Not Available

Core Analysis Table: Core Analysis Table Not Available

Core Analysis Comments: Core Analysis Comments Not Available

Core Analysis Summary: Core Analysis Summary Not Available

Core Analysis Summary Comments: Core Analysis Summary Comments Not Available

Core Analysis Summary Table: Core Analysis Summary Table Not Available

Core Analysis Summary Graph: Core Analysis Summary Graph

| | | |

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-007
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

UWI	SEC	TWP	RGE	Other Services
LSD				

Licence Number

Permanent Datum: GL - Elevation 1M metres

Log Measured From: GROUND LEVEL above Permanent Datum

Drilling Measured From

Date	20-JUN-2009	
Run Number	1	
Depth Driller	256.70	metres
Depth Logger	255.19	metres
First Reading	255.01	metres
Last Reading	5.90	metres
Casing Driller	4.50	metres
Casing Logger	4.50	metres
Bit Size	5.90	metres
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 Rec Temp		
Equipment Name	RR5, DD6	
Equipment / Base	11556	
Recorded By	D SIGSTAD	
Witnessed By	O CULLINGHAM	

Elevations: KB, GL — metres

BOREHOLE RECORD

Last Edited: 20-JUN-2009 21:24

Bit Size millimetres	Depth From metres	Depth To metres
107.000	0.00	5.90
101.300	5.90	308.51

CASING RECORD

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

REMARKS

STOPPED LOGGING DENSITY AT 58M DUE TO TOOL GETTING STUCK.

PULLED THROUGH TIGHT SPOT AND CONTINUED LOGGING AT 50M.

DUE TO GAP IN DENSITY DATA, AN UPPER AND LOWER SET OF LOGS GIVEN.

WELL FLOWING

COORDINATES:
NORTHING:
5485340
EASTING:
363730

RUN 1
DFE, DD6

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	RAV09-007
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	255.01	metres
Elevation Drill Floor	metres	Depth Driller	255.70	metres
Elevation Ground Level	metres	Depth Logger	255.19	metres

Weatherford®

MINI PLOT

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-007
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	20-JUN-2009		
Run Number	1		
Depth Driller	255.70 metres		
Depth Logger	255.19 metres		
First Reading	50.01 metres		
Last Reading	0.00 metres		
Casing Driller	4.50 metres		
Casing Logger	5.90 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	RR5,DD6	544,691	
Equipment / Base	11536 RDR		
Recorded By	D.SIGSTAD		
Witnessed By	O.CULLINGHAM		

BOREHOLE RECORD

Last Edited: 20-JUN-2009 21:24

Bit Size millimetres	Depth From metres	Depth To metres
107.000	0.00	5.90
101.300	5.90	308.51

CASING RECORD

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

REMARKS

STOPPED LOGGING DENSITY AT 58M DUE TO TOOL GETTING STUCK.

PULLED THROUGH TIGHT SPOT AND CONTINUED LOGGING AT 50M.

DUE TO GAP IN DENSITY DATA, AN UPPER AND LOWER SET OF LOGS GIVEN.

WELL FLOWING

COORDINATES:
NORTHING:
5485340
EASTING:
363730

RUN 1
DFE, DD6

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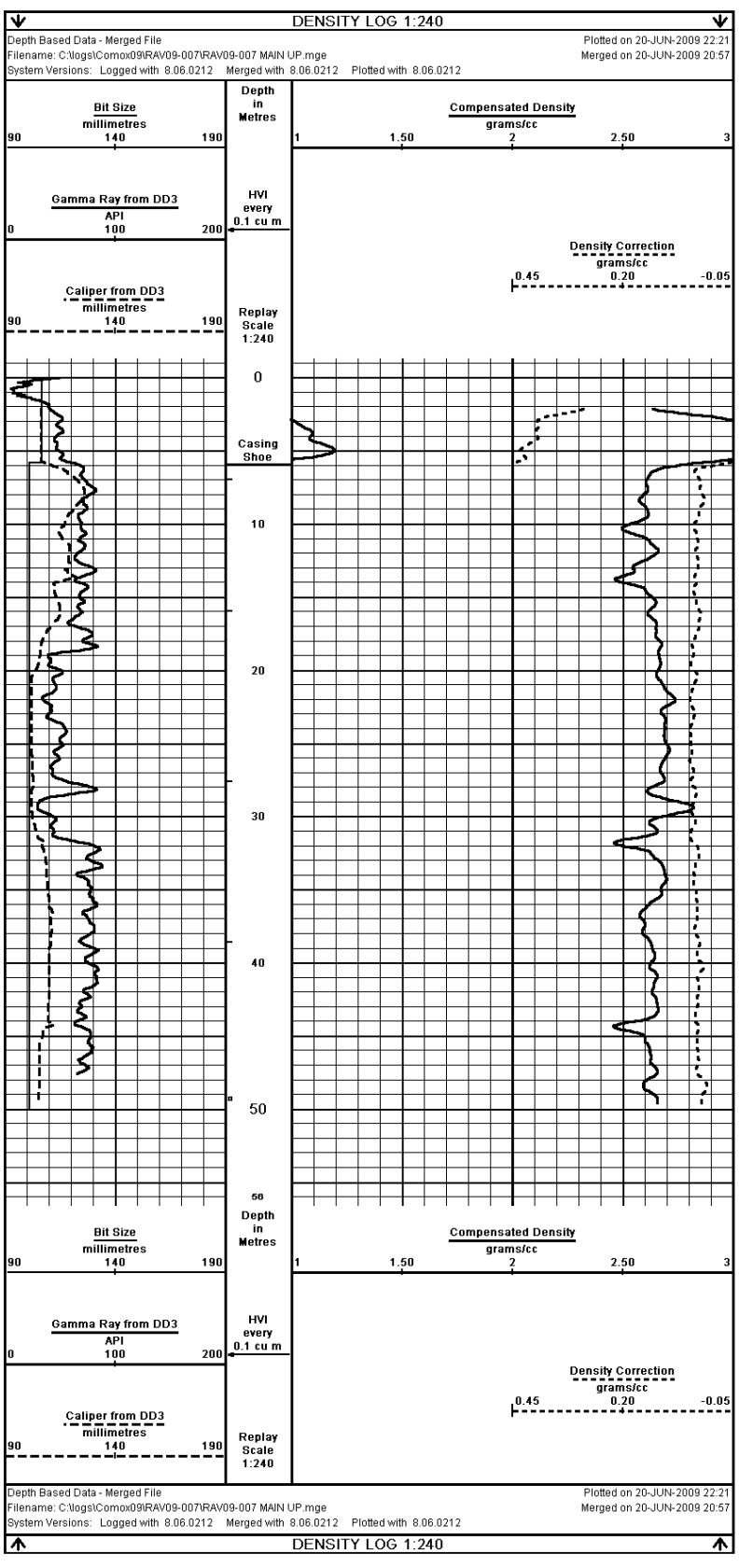

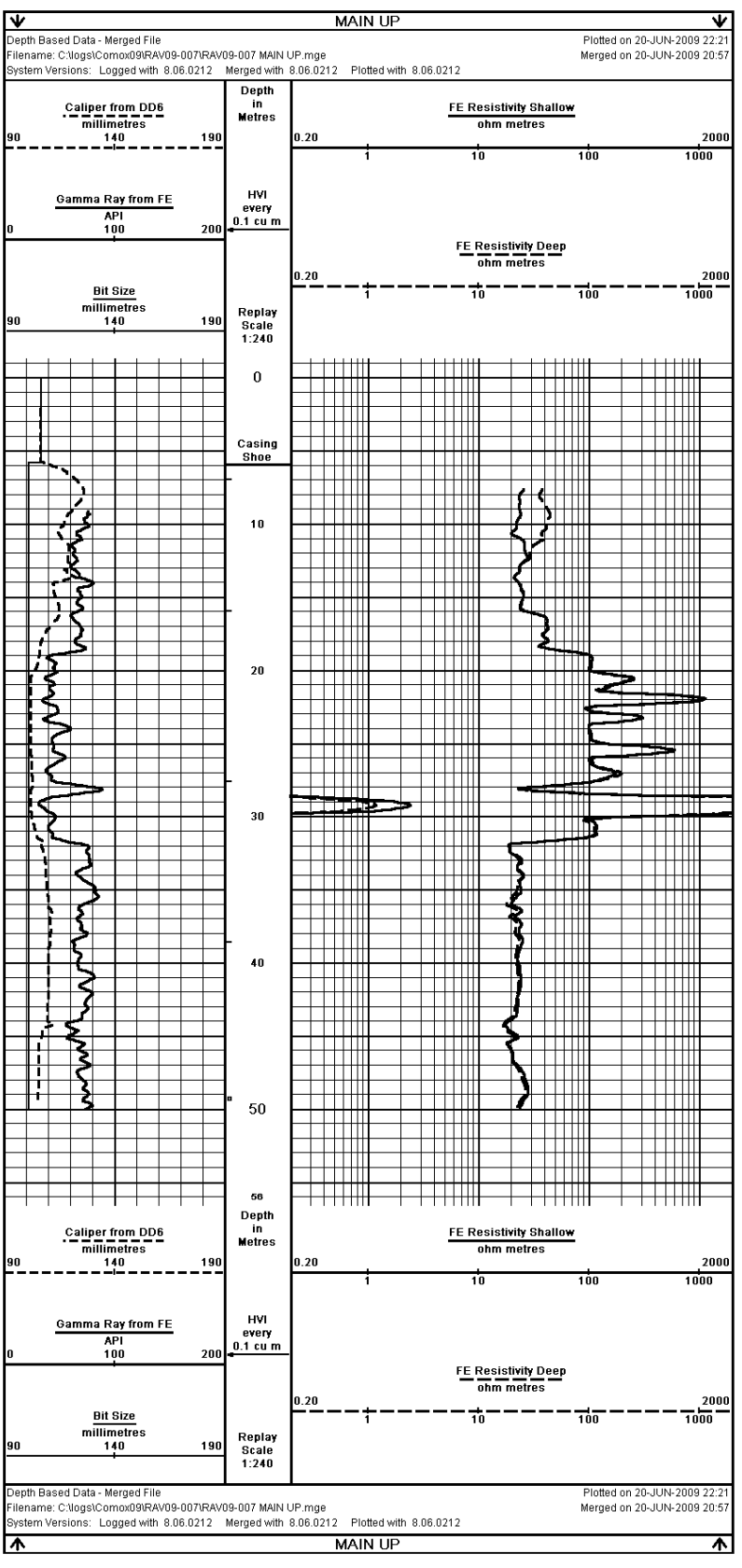

COMPANY	COMPLIANCE COAL CORP			
WELL	RAV09-007			
FIELD	UNDEFINED			
PROVINCE/COUNTY	BRITISH COLUMBIA			
COUNTRY/STATE	CANADA			
Elevation Kelly Bushing	metres	First Reading	50.01	metres
Elevation Drill Floor	metres	Depth Driller	255.70	metres
Elevation Ground Level	metres	Depth Logger	255.19	metres

Weatherford®

MINI PLOT

DUAL FOCUSSED ELECTRIC
GAMMA RAY, CALIPER

COMPANY COMPLIANCE COAL CORP
WELL RAVISI-007
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Weatherford

Service Order	00-0000-0000
Run Number	1
Date	2009-01-17
Depth Driller	250.00
Depth Logger	248.00
Bit Size	200.0
Depth Control	DRILLER
Max Recorded Temp	0
Estimated Cement Top	0.00
Equipment	10-1
Location	RAVISI
Recorded By	D.BRAGAN
Witnessed By	D.BRAGAN

BOREHOLE RECORD			
Bit Size (millimetres)	Depth From (metres)	Depth To (metres)	Last Edited: JULY-09-2009 (1.28
200.0	0.00	250.00	
121.300		248.00	

CASING RECORD			
Type	Size (millimetres)	Depth From (metres)	Shoe Depth (metres)	Weight (kg/metre)

REMARKS

STOPPED LOGGING DENSITY AT 188M DUE TO TOOL GETTING STUCK.

PULLED THROUGH TIGHT SPOT AND CONTINUED LOGGING.

DUE TO GAP IN DENSITY DATA, AN UPPER AND LOWER SET OF LOGS GIVEN.

WELL FLOWING

LOGGING UNIT
GAMMA RAY
SAFENG
CALIPER
DCS

RUN 1
GR, CDL

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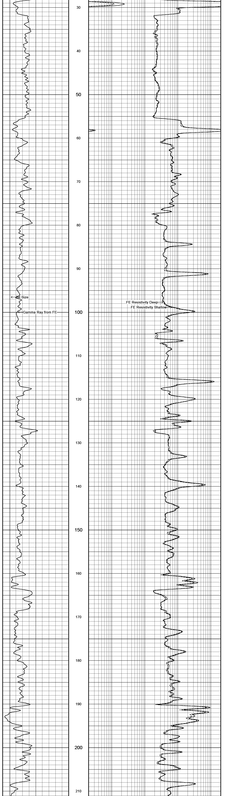
MAIN LOG 1:240

Depth Based Data - Maximum Sampling Increment: 10.0cm
Filename: C:\logs\Compliance\09-007RAVI-Grid-01.dlis
Sponsor Versions: Logged with 9.08.01C2 Plotted with 9.08.01C2

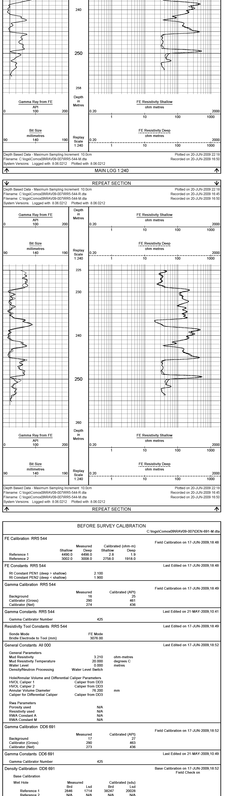
Plotted on 20-JUN-2009 22:10
Recorded on 20-JUN-2009 19:50



REPEAT SECTION

Depth Based Data - Maximum Sampling Increment: 10.0cm
Filename: C:\logs\Compliance\09-007RAVI-Grid-01.dlis
Sponsor Versions: Logged with 9.08.01C2 Plotted with 9.08.01C2

Plotted on 20-JUN-2009 22:10
Recorded on 20-JUN-2009 19:50



BEFORE SURVEY CALIBRATION

C:\logs\Compliance\09RAVISI-007CEN-001-M.dlis

FE Calibration: RRS 544 — Field Calibration on 17-JUN-2009 19:48

	Measured Clay	Calibrated (ohm-m) Shallow	Deep
Reference 1	4400.0	2.5	1.5
Reference 2	3000.0	2748.0	3435.0

FE Constants: RRS 544 — Last Edited on 17-JUN-2009 19:48

Mud Resistivity (deg1 + shallow)	2.100
Mud Resistivity (deg2 + shallow)	1.900

Gamma Calibration: RRS 544 — Field Calibration on 17-JUN-2009 19:49

	Measured	Calibrated (API)
Background	16	25
Calibrator (Gross)	254	425
Calibrator (Net)	238	400

Gamma Constants: RRS 544 — Last Edited on 21-MAY-2009 10:41

Gamma Calibrator Number	425

Resistivity Tool Constants: RRS 544 — Last Edited on 17-JUN-2009 19:49

	FE Mode
Mode Electrode to Tool (mm)	3476.00

Tool Constants: All DDS — Last Edited on 17-JUN-2009 19:52

General Parameters		
Mud Density	1.310	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 Size Source	Caliper from DCS	
HHVS: Caliper 2	Caliper from DCS	
HHVS: Caliper 3 Source	Caliper from DCS	mm
Caliper for Differential Caliper	Caliper from DCS	
Raw Parameters		
Panoramic used	N/A	
Calibrator Density	2.65	
Calibrator Porosity	0.00	
HNAI Constant M	N/A	

Gamma Calibration: DDS 691 — Field Calibration on 17-JUN-2009 19:52

	Measured	Calibrated (API)
Background	16	25
Calibrator (Gross)	254	400
Calibrator (Net)	238	436

Gamma Constants: DDS 691 — Last Edited on 21-MAY-2009 10:41

Gamma Calibrator Number

Gamma Calibration: DDS 691 — Base Calibration on 17-JUN-2009 19:52
Field Check on

Base Calibration			Calibrated (API)
Mud Value	Measured Lwd	Lwd	Std
Reference 1	2648	1714	36347
Reference 2	N/A	N/A	N/A

	Measured	Calibrated (API)
Dry Hole		
Reference 1	1714	36347
Reference 2	N/A	N/A

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

Density Constants: DDS 691 — Last Edited on 7-JUN-2009 09:39

Processing Type	DDS
Density Source id	1111CA
Density Calibration Number	1
Caliper Source for Processing	Caliper from Density
Density Calibration Method	Lwd
Mud Density	1.11
Mud Plastic Viscosity	0.00
BRD Scaler	0.30
Density Scaler	1.50

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

Wet Hole Normalization	Measured g/cc	Calibrated g/cc
BRD Point 1	1.30	1.00
BRD Point 2	1.90	1.00
LRD Point 1	1.30	1.00
LRD Point 2	1.90	1.00

Dry Hole Normalization	Measured g/cc	Calibrated g/cc
BRD Point 1	1.30	1.00
BRD Point 2	1.90	1.00
LRD Point 1	1.30	1.00
LRD Point 2	1.90	1.00

Caliper Calibration: DDS 691 — Base Calibration on 17-JUN-2009 19:52
Field Calibration on

Base Calibration Reading No	Measured	Calibrator Size (mm)
1	1962	76.20
2	2343	101.60
3	2725	152.40
4	3105	152.40
5	4088	203.20
6	4919	254.00

Field Calibration	Measured Caliper (mm)	Actual Caliper (mm)
	2.38	0.00

COMPANY	COMPLIANCE COAL CORP
WELL	RAVISI-007
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Service Order Starting	metres	First Reading	250.20	metres
Service Order Ending	metres	Depth Driller	250.00	metres
Depth Control Source	DRILLER	Depth Logger	250.10	metres

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DUAL FOCUSSED ELECTRIC
GAMMA RAY, CALIPER

COMPOSITE COAL LOG

COMPANY COMPLIANCE COAL CORP
WELL RAV09-008
FIELD UNDEFINED
PROVINCE/COUNTRY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Log Run Number	1	2	3	4	5	6	7	8	9	10
Date	20-JUN-09									
Company	RIGC									
Depth Logged From	0.00	71.00	71.00	71.00	71.00	71.00	71.00	71.00	71.00	71.00
Depth Logged To	71.00	250.05	250.05	250.05	250.05	250.05	250.05	250.05	250.05	250.05
Bit Size millimetres	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00
Drilling Measured From	KB	KB	KB	KB	KB	KB	KB	KB	KB	KB
Drill Collar Length metres	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Drill Pipe/Casing Length metres	71.00	71.00	71.00	71.00	71.00	71.00	71.00	71.00	71.00	71.00
Casing Length metres	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hole Depth Measured From	KB	KB	KB	KB	KB	KB	KB	KB	KB	KB
Depth Logged Measured From	KB	KB	KB	KB	KB	KB	KB	KB	KB	KB
Depth Logged Measured From	KB	KB	KB	KB	KB	KB	KB	KB	KB	KB
Permanent Datum	Ground Level									
Elevation of Permanent Datum	0.00									
Log Measured From	KB									
Above Permanent Datum	0.00									
Elevation Kelly Bushing metres										
Elevation Drill Floor metres										
Elevation Ground Level metres										
Bit Size millimetres	140									
Type of Fluid in Hole	CLEAR WATER									
Density kg/m3										
Viscosity mPa.s										
Fluid Loss mL										
Source of Sample										
Rm Measured Temp										
Rmf Measured Temp										
Rmc Measured Temp										
Source Rmf Rmc										
Rm at Measured Temp										
Rmf at Measured Temp										
Rmc at Measured Temp										
Source Rm										
Rm at BHT										
Maximum Recorded Temp degC										
Equipment Name	TELEC									
Recorded By	C.CLARK									
Witnessed By	C.CLARK	RGC								

BOREHOLE RECORD

Bit Size millimetres	Depth From metres	Depth To metres
140.000	0.00	71.00
147.000	71.00	250.05

Last Edited: 20-JUN-2009 14:00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
Casing	140	0.00	70.00	

REMARKS

COORDINATES:
NORTHING:
5464620
EASTING:
364460

TOOL RUNS
HRD,DDS,MSD,VO4

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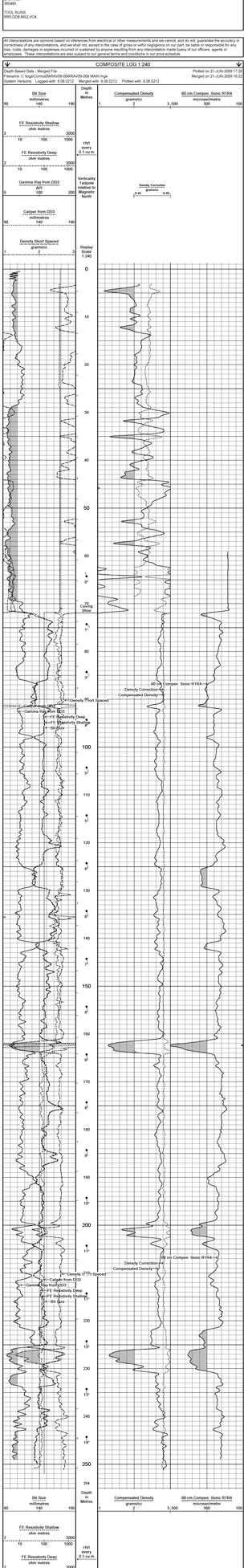
COMPOSITE LOG 1:240

Depth Based Data - Merged File
Filename: C:\logic\Composite\RAV09-008\RAV09-008 MAIN.mge
System Versions: Logged with: 8.06.0212 Merged with: 8.06.0212 Plotted with: 8.06.0212
Plotted on 21-JUN-2009 17:25
Merged on 21-JUN-2009 16:22



Depth Based Data - Merged File
Filename: C:\logic\Composite\RAV09-008\RAV09-008 MAIN.mge
System Versions: Logged with: 8.06.0212 Merged with: 8.06.0212 Plotted with: 8.06.0212
Plotted on 21-JUN-2009 17:25
Merged on 21-JUN-2009 16:22

COMPOSITE LOG 1:240

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-008		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	251.51 metres
Elevation Drill Floor	metres	Depth Driller	252.77 metres
Elevation Ground Level	metres	Depth Logger	251.69 metres

Weatherford

COMPOSITE COAL LOG

Weatherford

LOG PRESENTATION
CHAMPLAIN COAL CORP.
DEL DELTA 2-DH63

WELL:	DEL DELTA 2-DH63
FIELD:	CHAMPLAIN
PROVINCE/COUNTY:	QUEBEC / LA VALLIERE
LOCATION:	0 - 0 - 0 - 0
Latitude:	Longitude:
Elevation:	Datum:
Date:	Time:
Weather:	Temperature:
Road Condition:	Hole Condition:
Witnessed by:	Witnessed by:
Logged by:	Logged by:
Operator:	Operator:
Logging Company:	Logging Company:
Logging Equipment:	Logging Equipment:
Comments:	Comments:

Total Depth:	0.00 m	Log Interval:	0.00 m - 0.00 m
Casing Shoe:	0.00 m	Casing Size:	0.00 mm
Bit Size:	0.00 mm	Fluid Level:	0.00 m
Fluid Type:		Density:	
Viscosity:		Resistivity:	
Source of Sample:		Rm Temp:	
Rmf:		Rmf Temp:	
Rmc:		Rmc Temp:	
Max Rec Temp:		Equip. Location:	
Recorded by:		Witnessed by:	

Gamma Ray Calibrator:		Gamma Ray Source:	
Density Calibrator:		Density Source:	
Neutron Calibrator:		Neutron Source:	
Density Tool:		Density Serial #:	
Neutron Tool:		Neutron Serial #:	
Gamma Ray Tool:		Gamma Ray Serial #:	
Caliper Tool:		Caliper Serial #:	
Other Equipment:		Other Serial #:	

Density Tool Offset:	0.00 mm	Density Tool Stand-off:	0.00 mm
Neutron Tool Offset:	0.00 mm	Neutron Tool Stand-off:	0.00 mm
Gamma Ray Tool Offset:	0.00 mm	Gamma Ray Tool Stand-off:	0.00 mm
Caliper Tool Offset:	0.00 mm	Caliper Tool Stand-off:	0.00 mm
Other Tool Offset:	0.00 mm	Other Tool Stand-off:	0.00 mm

Density Tool Type:		Density Tool Serial #:	
Neutron Tool Type:		Neutron Tool Serial #:	
Gamma Ray Tool Type:		Gamma Ray Tool Serial #:	
Caliper Tool Type:		Caliper Tool Serial #:	
Other Tool Type:		Other Tool Serial #:	

Density Tool Calibration Date:		Density Tool Calibration Time:	
Neutron Tool Calibration Date:		Neutron Tool Calibration Time:	
Gamma Ray Tool Calibration Date:		Gamma Ray Tool Calibration Time:	
Caliper Tool Calibration Date:		Caliper Tool Calibration Time:	
Other Tool Calibration Date:		Other Tool Calibration Time:	

Density Tool Calibrator:		Density Tool Source:	
Neutron Tool Calibrator:		Neutron Tool Source:	
Gamma Ray Tool Calibrator:		Gamma Ray Tool Source:	
Caliper Tool Calibrator:		Caliper Tool Source:	
Other Tool Calibrator:		Other Tool Source:	

Density Tool Calibration Method:		Density Tool Calibration Source:	
Neutron Tool Calibration Method:		Neutron Tool Calibration Source:	
Gamma Ray Tool Calibration Method:		Gamma Ray Tool Calibration Source:	
Caliper Tool Calibration Method:		Caliper Tool Calibration Source:	
Other Tool Calibration Method:		Other Tool Calibration Source:	

Density Tool Calibrator Serial #:		Density Tool Calibrator Type:	
Neutron Tool Calibrator Serial #:		Neutron Tool Calibrator Type:	
Gamma Ray Tool Calibrator Serial #:		Gamma Ray Tool Calibrator Type:	
Caliper Tool Calibrator Serial #:		Caliper Tool Calibrator Type:	
Other Tool Calibrator Serial #:		Other Tool Calibrator Type:	

Density Tool Calibrator Value:		Density Tool Calibrator Time:	
Neutron Tool Calibrator Value:		Neutron Tool Calibrator Time:	
Gamma Ray Tool Calibrator Value:		Gamma Ray Tool Calibrator Time:	
Caliper Tool Calibrator Value:		Caliper Tool Calibrator Time:	
Other Tool Calibrator Value:		Other Tool Calibrator Time:	

Density Tool Calibrator Method:		Density Tool Calibrator Source:	
Neutron Tool Calibrator Method:		Neutron Tool Calibrator Source:	
Gamma Ray Tool Calibrator Method:		Gamma Ray Tool Calibrator Source:	
Caliper Tool Calibrator Method:		Caliper Tool Calibrator Source:	
Other Tool Calibrator Method:		Other Tool Calibrator

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-008		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
API NO.	00	Lat	
LOCATION		Long	
LSD	SEC	TWP	RGE
		Elevations	KB
			GL
			DF
			KB-GL
			Datums

MINI PLOT

Log Measured From: GROUND LEVEL above Permanent Datum

Date: 20-JUN-2009

Run Number: 1

Depth Driller: 291.51 metres

Depth Logger: 251.69 metres

Bottom Log Interval: 290.97 metres

Top Log Interval: 250.51 metres

Drill Fluid Type: Water

Drill Fluid Density: 1.00 g/cm3

Drill Fluid Viscosity: 71.00 mPa.s

Drill Fluid Pump Rate: 0.00 L/min

Drill Fluid Reading: 71.00 metres

Drill Fluid Level: 71.00 metres

Casing Depth: 71.00 metres

Casing Diameter: 244.5 mm

Casing Weight: 34.00 kg/m

Bit Size: 158.00 mm

Bit Type: 0.00 mm

Equipment Name: 1 Pre-Amp Calibration

Equipment Serial Number: 1 Pre-Amp Calibration

Equipment Name: 1 Sonde Calibration

Equipment Serial Number: 1 Sonde Calibration

Recorded By: 1 Sonde Calibration

Witnessed By: 1 Sonde Calibration

Sonde Type: 1 Sonde Calibration

Sonde Serial Number: 1 Sonde Calibration

Sonde Wt. and Sub Wt. (Air): 1 Sonde Calibration

Sonde Wt. and Sub Wt. (Water): 1 Sonde Calibration

Sensor Offset (Dry): 1 Sonde Calibration

Sensor Offset (Wet): 1 Sonde Calibration

Cable Type: 1 Sonde Calibration

Cable Length: 1 Sonde Calibration

Cable Number: 1 Sonde Calibration

Cable Diameter: 1 Sonde Calibration

Logging Company: 1 Sonde Calibration

Logging Company Address: 1 Sonde Calibration

Logging Company Phone: 1 Sonde Calibration

Logging Company Fax: 1 Sonde Calibration

Logging Company Email: 1 Sonde Calibration

Logging Company Contact: 1 Sonde Calibration

Logging Company Contact Phone: 1 Sonde Calibration

Logging Company Contact Fax: 1 Sonde Calibration

Logging Company Contact Email: 1 Sonde Calibration

Logging Company Contact Address: 1 Sonde Calibration

Logging Company Contact Address: 1 Sonde Calibration

Logging Company Contact Address

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN DOB
FIELD	UNDEFINED
PROV/STE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Weatherford

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

BOREHOLE RECORD

Bit Size	Interval
200.000	0.00
199.900	17.40
152.400	17.40

Last Edited: 21-JUN-2006 18:35

Type	Size	Depth From	Shoe Depth	Weight
	mm	mm	mm	kg/m

CASING RECORD

REMARKS

CLEARWATER
NORTHSTAR
DRILLING
SERVICES
(2004)

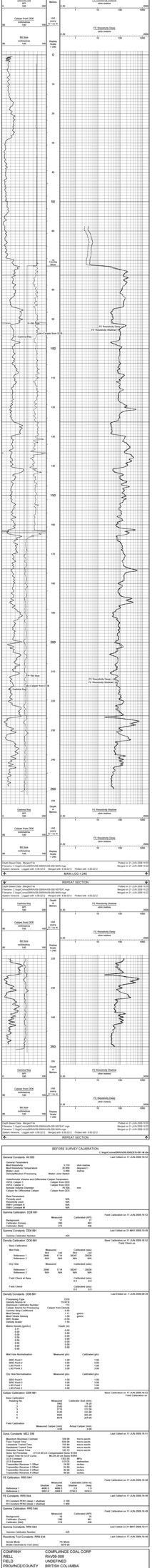
TOOL RUNS:
DUAL FOCUSSED

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.

MAIN LOG 1:240

Draft Raven1.Dwn - Merged File
Filename: C:\logs\Compliance\RAVEN-DB-000-RPT001.log
Depth Increment - Logged with: 0.05 0.10 Merged with: 0.05 0.10 Plotted with: 0.05 0.10

Plotted on 21-JUN-2006 18:35
Merged on 21-JUN-2006 18:21



Plotted on 21-JUN-2006 18:35
Merged on 21-JUN-2006 18:21

REPEAT SECTION

Draft Raven1.Dwn - Merged File
Filename: C:\logs\Compliance\RAVEN-DB-000-RPT001.log
Depth Increment - Logged with: 0.05 0.10 Merged with: 0.05 0.10 Plotted with: 0.05 0.10

Plotted on 21-JUN-2006 18:35
Merged on 21-JUN-2006 18:21

Plotted on 21-JUN-2006 18:35
Merged on 21-JUN-2006 18:21

BEFORE SURVEY CALIBRATION

[logs\Compliance\RAVEN-DB-000CN-001.dlis]

Last Edited on 17-JUN-2006 14:12

General Constants: 4D DSD

Mud Resistivity Temperature	3.370	ohm-metres	
Mud Resistivity Temperature	20.000	degrees C	
Mud Resistivity	0.000	ohm-m	
General/Neutron Processing	Water Lower Density		
Hole/Borehole Volume and Differential Caliper Parameters			
Hole Volume	0.000	cubic metres	
HOLE Caliper	Caliper from DDR		
Annular Volume Diameter	76.200	mm	
Annular Volume Differential Caliper	Caliper from DDR		

Gamma Parameters		
Panardy used	N/A	
Panardy Version	N/A	
GAMMA Constant A	N/A	
GAMMA Constant B	N/A	

Field Calibration on 17-JUN-2006 14:12

Gamma Calibration: DDB 681

	Measured	Calibrated (API)
Background	0.0	0.0
Calibrator (Gross)	240	400
Calibrator (Net)	240	400

Gamma Constants: DDB 681

Last Edited on 21-MAY-2006 15:40

Density Calibration: DDB 681

Gamma Calibration Section 425

Base Calibration on 17-JUN-2006 14:12
Field Check on

Main Index	Measured	Calibrated (sdu)
	2.00	2.00
Reference 1	2447	26224
Reference 2	N/A	N/A
Dry Hole	Measured	Calibrated (sdu)
Reference 1	2646 1214	30327 20928
Reference 2	N/A N/A	N/A N/A
Field Check at Base		Calibrated (sdu)
	3.0	3.0
Field Check		Calibrated (sdu)
	3.0	3.0

Density Constants: DDB 681

Last Edited on 21-MAY-2006 15:40

Density Calibration: DDB 681

Base Calibration on 17-JUN-2006 14:12
Field Check on

Processing Type	DDN
Hole Type	Cased Hole
Aluminum Calibration Number	1
Caliper Source for Processing	Caliper from Density
Density Hole Diameter	1.11 gm/cc
Mud Density	1.11 gm/cc
Density Calibration Method	Density
BIRD Scaler	8-192
Density Scaler	256
Density Spacing (gm/cc)	Close Only
	2.11
	2.50
	2.00
	0.00
	0.00
	0.00
	0.00
	0.00

Mid-Hole Normalization	Measured gm/c	Calibrated gm/c
BRD Point 1	1.00	1.00
BRD Point 2	1.50	1.50
BRD Point 3	2.00	2.00
LRD Point 2	3.00	3.00

Dry Hole Normalization	Measured gm/c	Calibrated gm/c
BRD Point 1	1.00	1.00
BRD Point 2	1.50	1.50
BRD Point 3	2.00	2.00
LRD Point 2	3.00	3.00

Base Calibration on 17-JUN-2006 14:12
Field Calibration on

Caliper Calibration: DDB 681

Base Calibration Reading No	Measured Counts	Calibrator Size (mm)
1	1882	76.20
2	2771	127.00
3	3663	177.80
4	4552	228.60
5	5442	279.40
6	6329	254.00
Field Calibration	Measured Caliper (mm)	Actual Caliper (mm)
	254.00	254.00

Field Calibration on 17-JUN-2006 14:12

Sonic Constants: MSC DSI

Last Edited on 17-JUN-2006 18:01

Maximum Secondary Contrast	539.06	micro-secs/ft
Maximum Delta Time	1000.00	micro-secs/ft
Latestone Transit Time	155.44	micro-secs/ft
Sandstone Transit Time	182.88	micro-secs/ft
Shale Transit Time	200.00	micro-secs/ft
Sonic Fit Percentage	20.00	
Sonic Processing Method	MCSK DR Sonic Processing	
Sonic Source	MCSK DR Sonic Processing	
UCS Constant	1302.00	MPa
UCS Exponent	1.000	Dimensionless
Transmitter Receiver 1 Offset	24.00	inches
Transmitter Receiver 2 Offset	30.00	inches
Transmitter Receiver 3 Offset	36.00	inches
Transmitter Receiver 4 Offset	42.00	inches

FE Calibration: RRS 544

Field Calibration on 17-JUN-2006 15:48

	Measured Shallow	Measured Deep	Calibrated (ohm-m) Shallow	Calibrated (ohm-m) Deep
Reference 1	4488.0	4488.0	2.0	1.4
Reference 2	4488.0	4488.0	2.0	1.4

Last Edited on 17-JUN-2006 15:48

FE Constants: RRS 544

FE Constant PEW1 (deep = shallow)	2.100
FE Constant PEW2 (deep = shallow)	1.900

Base Calibration on 17-JUN-2006 15:48

Gamma Calibration: RRS 544

Field Calibration on 17-JUN-2006 15:48

	Measured	Calibrated (API)
Background	16	25
Calibrator (Gross)	273	400
Calibrator (Net)	273	400

Last Edited on 17-JUN-2006 15:48

Gamma Constants: RRS 544

Gamma Calibration Section 425

Resistivity Tool Constants: RRS 544

Last Edited on 17-JUN-2006 15:48

Tool Type	FE Multi
Sonde Shallow for Tool (mm)	3976.00

Sonde Deep for Tool (mm)	3976.00	Field Reading	20.10 metres
Shallow Grid Point	metres	Depth Offset	20.10 metres
Deep Grid Point	metres	Depth Origin	20.98 metres
Resistivity Source	Linear		

DUAL FOCUSSED ELECTRIC
GAMMA RAY, CALIPER

60CM COMPENSATED SONIC
GAMMA RAY, CALIPER

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN-028
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Date Logged	3-Jun-2009
Depth Logged	1,000.00 - 1,000.00
Depth Logged	1,000.00 - 1,000.00

Total Reading	251.07	metres	
Depth Drilled	251.07	metres	
Length Logged	251.00	metres	

Weatherford

BORESHOLE RECORD

Bit Size	Depth In	Depth Out	Last Detail
14" 0.00	0.00	251.07	251.00

CASING RECORD

Type	Size (Weight)	Weight Type	Wear Depth	Shoe Depth	Weight Method

REMARKS

CORRELATED
NORTHING
EASTING
ELEVATION
DATUM
TOTAL BLIND
DRILLING DEPTH

REPEAT SECTION

Depth Based Data - Merged File
Source: C:\logs\Compliance\RAVEN-028\RAVEN-028 REPEAT.mgs
Preview: C:\logs\Compliance\RAVEN-028\RAVEN-028 REPEAT.mgs
Generated on: 3-JUN-2009 10:32 Printed on: 3-JUN-2009 10:32
Version: 1.0 Page1 of 1 Weatherford Wireline Services Calgary Page 1 of 1

BEFORE SURVEY CALIBRATION

C:\logs\Compliance\RAVEN-028\RAVEN-028 BS.dfs

Last Edited on 17 JUN 2009 09:32

General Constants WI 550

General Parameters			
Well Deviation	0.100	Drill Method	Rotary
Max Expected Temp	50.00	Logging Speed	10
Meter Level	0.000	Units	metres
Gamma Calibration Processing	Water Equivalent		
Hole/Casing Volume and Effective Casing Parameters			
HWD Caliper 1	Caliper from DEN		
HWD Caliper 2	Caliper from DEN		
Actual Hole Volume	0.000	m3	
Effective Casing Volume	Caliper from DEN		
Plate Parameters			
Density unit	N/A		
Density Plate	N/A		
HWD Constant A	N/A		
HWD Constant B	N/A		

Gamma Calibration DCR-551

	Measured	Calibrated (API)
Background	0.00	0.00
Calibrator Value	275	275
Calibrator Error		0.00

Last Edited on 21 MAY 2009 17:50

Density Calibration DCR-551

Base Calibration on 17 JUN 2009 19:10
Field Check on

Bin Vols	Measured		Calibrated (kg/m3)	
	Air	Water	Air	Water
Reference 1	1.00	1.00	0.00	1000
Reference 2	N/A	N/A	N/A	N/A
Dry Vols	Measured		Calibrated (cm3)	
Reference 1	0.00	1.14	0.00	2625
Reference 2	N/A	N/A	N/A	N/A
Field Check at Base			Calibrated (g/cc)	
			2.5	2.5
Field Check	Measured		Calibrated (g/cc)	
			2.5	2.5

Last Edited on 17 JUN 2009 09:35

Density Constants DCR-551

Processing Type	DCR	
Density Calibration	Density	
Statistical Calibration Number	1	
Density Calibration Reference	Caliper from DEN	
Gamma Ratio Coefficient	0.00	
Density Ratio Coefficient	0.00	g/cc
Bad Hole Density	1.80	g/cc
Density Offset	0.00	
Density Ratio	0.00	
Matrix Density (g/cc)	Cayle (m)	
2.00	0.00	
2.25	0.00	
2.50	0.00	
2.75	0.00	
3.00	0.00	
3.25	0.00	
3.50	0.00	

Last Edited on 17 JUN 2009 09:35

Hot Hole Normalization

	Measured g/cc	Calibrated g/cc
BD3 Pass 1	1.80	1.80
BD3 Pass 2	1.80	1.80
LD3 Pass 1	1.80	1.80
LD3 Pass 2	1.80	1.80

Dry Hole Normalization

	Measured g/cc	Calibrated g/cc
BD3 Pass 1	1.80	1.80
BD3 Pass 2	1.80	1.80
LD3 Pass 1	1.80	1.80
LD3 Pass 2	1.80	1.80

Caliper Calibration DCR-551

Base calibration on 17 JUN 2009 09:32
Field Calibration on

Bin Calibration	Measured	Calibrated Size (mm)
1	1992	75.00
2	2000	100.00
3	2000	150.00
4	2000	200.00
5	2000	250.00
6	2000	300.00
Field Calibration	2000	250.00

Measured Caliper (mm) Actual Caliper (mm)

Last Edited on 17 JUN 2009 09:35

Sonic Constants WSI 2300

Maximum Secondary Limited	328.08	micro-secs/m
Sonic Calibration Type	Sonic Velocity	
Calibration Transit Time	100.00	micro-secs/m
Calibration Transit Time	100.00	micro-secs/m
Sonic Velocity Calibration	1000.00	m/s
Transit Time for 2.0 Cycle Amplitude	100.00	micro-secs/m
Transit Time for 2.0 Cycle	100.00	micro-secs/m
Bin Calibration Distance	1000.00	mm
Transmitter Distance 1 Offset	60.00	inches
Transmitter Distance 2 Offset	60.00	inches
Transmitter Distance 3 Offset	60.00	inches
Transmitter Distance 4 Offset	60.00	inches

Last Edited on 17 JUN 2009 09:35

FE Calibration WSI 2300

Field Calibration on 17 JUN 2009 19:30

	Measured	Calibrated (mm/s)
Bin Calibration	Slowness	Velocity
Bin 1	1000.0	1000.0
Bin 2	1000.0	1000.0

Last Edited on 17 JUN 2009 09:35

FE Constants WSI Sim

BD Constant FE0 (delay) - (slowness)	0.00
BD Constant FE0 (delay) - (slowness)	1.00

Field Calibration on 17 JUN 2009 19:30

Last Edited on 17 JUN 2009 09:35

Gamma Calibration WSI 544

Background	0.00	API
Calibrator Value	275	API
Calibrator Error		0.00

Last Edited on 21 MAY 2009 17:50

Resistivity Tool Constants WSI 544

Resistivity Type	FE Mode	
Mode Switches to Tool mode	50 Hz	

Last Edited on 17 JUN 2009 09:40

REPEAT SECTION

C:\logs\Compliance\RAVEN-028\RAVEN-028 REPEAT.dfs

Last Edited on 17 JUN 2009 10:32

General Constants WI 550

General Parameters			
Well Deviation	0.100	Drill Method	Rotary
Max Expected Temp	50.00	Logging Speed	10
Meter Level	0.000	Units	metres
Gamma Calibration Processing	Water Equivalent		
Hole/Casing Volume and Effective Casing Parameters			
HWD Caliper 1	Caliper from DEN		
HWD Caliper 2	Caliper from DEN		
Actual Hole Volume	0.000	m3	
Effective Casing Volume	Caliper from DEN		
Plate Parameters			
Density unit	N/A		
Density Plate	N/A		
HWD Constant A	N/A		
HWD Constant B	N/A		

Gamma Calibration DCR-551

Background	0.00	0.00
Calibrator Value	275	275
Calibrator Error		0.00

Last Edited on 21 MAY 2009 17:50

Density Calibration DCR-551

Base Calibration on 17 JUN 2009 19:10
Field Check on

Bin Vols	Measured		Calibrated (kg/m3)	
	Air	Water	Air	Water
Reference 1	1.00	1.00	0.00	1000
Reference 2	N/A	N/A	N/A	N/A
Dry Vols	Measured		Calibrated (cm3)	
Reference 1	0.00	1.14	0.00	2625
Reference 2	N/A	N/A	N/A	N/A
Field Check at Base			Calibrated (g/cc)	
			2.5	2.5
Field Check	Measured		Calibrated (g/cc)	
			2.5	2.5

Last Edited on 17 JUN 2009 09:35

Density Constants DCR-551

Processing Type	DCR	
Density Calibration	Density	
Statistical Calibration Number	1	
Density Calibration Reference	Caliper from DEN	
Gamma Ratio Coefficient	0.00	
Density Ratio Coefficient	0.00	g/cc
Bad Hole Density	1.80	g/cc
Density Offset	0.00	
Density Ratio	0.00	
Matrix Density (g/cc)	Cayle (m)	
2.00	0.00	
2.25	0.00	
2.50	0.00	
2.75	0.00	
3.00	0.00	
3.25	0.00	
3.50	0.00	

Last Edited on 17 JUN 2009 09:35

Hot Hole Normalization

	Measured g/cc	Calibrated g/cc
BD3 Pass 1	1.80	1.80
BD3 Pass 2	1.80	1.80
LD3 Pass 1	1.80	1.80
LD3 Pass 2	1.80	1.80

Dry Hole Normalization

	Measured g/cc	Calibrated g/cc
BD3 Pass 1	1.80	1.80
BD3 Pass 2	1.80	1.80
LD3 Pass 1	1.80	1.80
LD3 Pass 2	1.80	1.80

Caliper Calibration DCR-551

Base calibration on 17 JUN 2009 09:32
Field Calibration on

Bin Calibration	Measured	Calibrated Size (mm)
1	1992	75.00
2	2000	100.00
3	2000	150.00
4	2000	200.00
5	2000	250.00
6	2000	300.00
Field Calibration	2000	250.00

Measured Caliper (mm) Actual Caliper (mm)

Last Edited on 17 JUN 2009 09:35

Sonic Constants WSI 2300

Maximum Secondary Limited	328.08	micro-secs/m
Sonic Calibration Type	Sonic Velocity	
Calibration Transit Time	100.00	micro-secs/m
Calibration Transit Time	100.00	micro-secs/m
Sonic Velocity Calibration	1000.00	m/s
Transit Time for 2.0 Cycle Amplitude	100.00	micro-secs/m
Transit Time for 2.0 Cycle	100.00	micro-secs/m
Bin Calibration Distance	1000.00	mm
Transmitter Distance 1 Offset	60.00	inches
Transmitter Distance 2 Offset	60.00	inches
Transmitter Distance 3 Offset	60.00	inches
Transmitter Distance 4 Offset	60.00	inches

Last Edited on 17 JUN 2009 09:35

FE Calibration WSI 2300

Field Calibration on 17 JUN 2009 19:30

	Measured	Calibrated (mm/s)
Bin Calibration	Slowness	Velocity
Bin 1	1000.0	1000.0
Bin 2	1000.0	1000.0

Last Edited on 17 JUN 2009 09:35

FE Constants WSI Sim

BD Constant FE0 (delay) - (slowness)	0.00
BD Constant FE0 (delay) - (slowness)	1.00

Field Calibration on 17 JUN 2009 19:30

Last Edited on 17 JUN 2009 09:35

Gamma Calibration WSI 544

Background	0.00	API
Calibrator Value	275	API
Calibrator Error		0.00

Last Edited on 21 MAY 2009 17:50

Resistivity Tool Constants WSI 544

Resistivity Type	FE Mode	
Mode Switches to Tool mode	50 Hz	

Last Edited on 17 JUN 2009 09:40

COMPANY	COMPLIANCE COAL CORP
WELL	RAVEN-028
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Date Logged	3-Jun-2009
Depth Logged	1,000.00 - 1,000.00
Depth Logged	1,000.00 - 1,000.00

Total Reading	251.07	metres
Depth Drilled	251.07	metres
Length Logged	251.00	metres

Weatherford

60CM COMPENSATED SONIC
GAMMA RAY, CALIPER

VERTICALITY ANALYSIS

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-008
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Ground Level	metres
Vertical Datum	metres
Final Reading	251.51 metres
Depth Drilled	252.00 metres
Depth Logged	251.49 metres

Weatherford

VERTICALITY ANALYSIS

BOREHOLE RECORD

Last Edited: 21-JUN-2009 14:08

Bit Size	Depth From	Depth To
152.40	0.00	252.00
146.00	152.00	252.00
147.000	0.00	250.00

CASING RECORD

Type	Size Metres	Depth From Metres	Shoe Depth Metres	Weight Kg/metre

REMARKS

COORDINATES
NAD83
WGS84
NAD27

TOOL RUNS
WELLCAD.MDL1.v2.4

Verticality Analysis Interpretation Notes

21-JUN-2009 16:43

All grafted 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(horizontal), 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 available, the maximum sampling rate available 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 field 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)

Down 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.

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

C:\logs\Compliance\RAV09-008\RAV09-208 M dip.dat

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

Date Processed: 21-JUN-2009
Date Logg'd : Jan 08 Kh05ns08

First Depth : 63.10 , 0.00 North , 0.00 East of Origin

DEPTHS		BOREHOLE		ABNL CO-ORDS		POLAR	
LOG	TRUE	TILT	AZIMUTH	NORTH	EAST	RADIUS	ANGLE
64.00	64.00	0.4	345.1	0.00	-0.00	0.00	0.00
65.00	65.00	0.4	358.4	0.01	-0.00	0.01	0.01
66.00	66.00	0.4	358.4	0.01	-0.00	0.01	0.01
67.00	67.00	0.4	358.4	0.01	-0.00	0.01	0.01
68.00	68.00	0.6	125.6	0.01	-0.01	0.02	0.01
69.00	69.00	0.8	125.6	0.00	-0.02	0.02	0.00
70.00	70.00	0.9	125.6	0.00	-0.03	0.03	0.00
71.00	71.00	0.9	134.1	-0.02	-0.04	0.06	0.05
72.00	72.00	1.0	134.1	-0.04	-0.05	0.09	0.05
73.00	73.00	1.2	141.0	-0.06	-0.07	0.13	0.05
74.00	74.00	1.2	141.0	-0.08	-0.09	0.17	0.05
75.00	75.00	1.5	156.2	-0.10	-0.10	0.21	0.05
76.00	76.00	2.0	156.2	-0.13	-0.12	0.26	0.05
77.00	77.00	2.2	162.2	-0.15	-0.14	0.31	0.05
78.00	78.00	2.2	162.2	-0.15	-0.14	0.36	0.21
79.00	79.00	2.2	162.2	-0.15	-0.14	0.41	0.36
80.00	80.00	2.2	163.1	-0.25	-0.20	0.46	0.42
81.00	81.00	2.7	163.1	-0.25	-0.20	0.51	0.52
82.00	82.00	2.8	163.1	-0.25	-0.20	0.57	0.60
83.00	83.00	2.8	163.1	-0.25	-0.20	0.63	0.65
84.00	83.99	2.7	168.4	-0.34	-0.26	0.68	0.45
85.00	84.99	2.7	168.4	-0.34	-0.26	0.73	0.45
86.00	85.99	3.1	167.9	-0.40	-0.31	0.78	0.54
87.00	86.99	2.9	169.9	-0.49	-0.33	0.84	0.59
88.00	87.99	2.9	169.9	-0.49	-0.33	0.90	0.59
89.00	88.99	3.0	165.3	-0.54	-0.37	0.97	0.60
90.00	89.99	3.1	168.9	-0.64	-0.39	1.05	0.64
91.00	90.99	3.1	168.9	-0.64	-0.39	1.13	0.64
92.00	91.99	3.1	168.9	-0.64	-0.39	1.21	0.64
93.00	92.98	4.0	173.9	-0.81	-0.45	1.31	0.55
94.00	93.98	4.0	173.9	-0.81	-0.45	1.41	0.55
95.00	94.97	4.1	174.4	-0.94	-0.49	1.51	0.52
96.00	95.97	4.1	172.4	-1.07	-0.54	1.61	0.52
97.00	96.97	4.1	172.4	-1.07	-0.54	1.73	1.20
98.00	97.96	4.6	176.2	-1.21	-0.58	1.86	1.20
99.00	98.96	4.6	176.2	-1.21	-0.58	1.99	1.20
100.00	99.96	4.6	176.2	-1.29	-0.60	2.13	1.42
101.00	100.95	4.9	175.4	-1.45	-0.65	2.28	1.42
102.00	101.95	4.7	178.9	-1.53	-0.66	2.42	1.57
103.00	102.94	5.1	177.0	-1.69	-0.70	2.57	1.57
104.00	103.94	5.1	177.0	-1.70	-0.72	2.73	1.57
105.00	104.94	5.1	177.0	-1.79	-0.72	2.90	1.92
106.00	105.94	5.1	177.0	-1.79	-0.72	3.08	1.92
107.00	106.94	5.1	177.0	-1.79	-0.72	3.26	1.92
108.00	107.93	5.3	173.5	-1.89	-0.76	3.45	2.16
109.00	108.93	5.3	173.5	-2.05	-0.78	3.66	2.16
110.00	109.93	5.3	173.5	-2.05	-0.78	3.87	2.16
111.00	110.91	5.4	174.6	-2.22	-0.83	4.09	2.47
112.00	111.91	5.4	174.6	-2.32	-0.83	4.30	2.47
113.00	112.91	5.4	174.6	-2.32	-0.83	4.52	2.47
114.00	113.91	5.4	174.6	-2.32	-0.83	4.74	2.47
115.00	114.91	5.4	174.6	-2.32	-0.83	4.97	2.47
116.00	115.90	5.6	172.4	-2.50	-0.91	5.21	2.64
117.00	116.90	5.6	172.4	-2.68	-0.97	5.46	2.64
118.00	117.90	5.6	172.4	-2.86	-1.03	5.72	2.64
119.00	118.90	5.9	176.2	-2.98	-0.97	5.97	2.53
120.00	119.90	5.9	176.2	-3.09	-0.97	6.23	2.53
121.00	120.90	5.9	176.2	-3.21	-0.97	6.49	2.53
122.00	121.87	5.7	181.3	-3.26	-1.03	6.75	3.42
123.00	122.87	5.7	181.3	-3.26	-1.03	7.01	3.42
124.00	123.87	5.7	181.3	-3.26	-1.03	7.27	3.42
125.00	124.85	6.0	180.5	-3.55	-1.07	7.53	3.71
126.00	125.85	6.0	180.5	-3.55	-1.07	7.79	3.71
127.00	126.85	6.0	180.5	-3.55	-1.07	8.05	3.71
128.00	127.83	6.4	183.3	-3.81	-1.15	8.34	4.02
129.00	128.83	6.4	183.3	-3.81	-1.15	8.63	4.02
130.00	129.83	6.4	183.3	-3.81	-1.15	8.92	4.02
131.00	130.82	6.7	184.2	-4.20	-1.13	9.20	4.30
132.00	131.82	6.7	184.2	-4.20	-1.13	9.49	4.30
133.00	132.82	6.7	184.2	-4.20	-1.13	9.78	4.30
134.00	133.81	7.0	187.0	-4.58	-1.18	10.08	4.61
135.00	134.79	7.0	187.0	-4.96	-1.18	10.39	4.61
136.00	135.79	7.0	187.0	-4.96	-1.18	10.70	4.61
137.00	136.77	7.2	183.0	-5.32	-1.22	11.02	4.91
138.00	137.77	7.2	183.0	-5.32	-1.22	11.34	4.91
139.00	138.77	7.2	183.0	-5.32	-1.22	11.66	4.91
140.00	139.76	7.5	183.9	-5.69	-1.26	11.99	5.22
141.00	140.74	8.7	185.1	-5.95	-1.29	12.32	5.52
142.00	141.74	8.7	185.1	-6.22	-1.32	12.66	5.52
143.00	142.73	8.7	185.1	-6.49	-1.35	13.00	5.52
144.00	143.72	7.5	183.9	-6.77	-1.28	13.34	5.91
145.00	144.72	7.5	183.9	-6.77	-1.28	13.68	5.91
146.00	145.72	7.5	183.9	-6.77	-1.28	14.02	5.91
147.00	146.69	8.0	188.1	-6.94	-1.35	14.36	6.29
148.00	147.69	8.0	188.1	-7.13	-1.42	14.70	6.29
149.00	148.69	8.0	188.1	-7.13	-1.42	15.04	6.29
150.00	149.68	7.8	187.7	-7.42	-1.49	15.37	6.62
151.00	150.68	8.0	188.8	-7.54	-1.53	15.70	7.66
152.00	151.68	8.2	189.9	-7.67	-1.57	16.04	8.70
153.00	152.68	8.2	189.9	-7.80	-1.61	16.38	8.70
154.00	153.67	8.5	188.6	-7.96	-1.64	16.73	8.57
155.00	154.67	8.5	188.6	-8.12	-1.68	17.08	8.57
156.00	155.67	8.5	188.6	-8.28	-1.71	17.43	8.57
157.00	156.66	8.9	188.4	-8.45	-1.74	17.78	8.93
158.00	157.66	8.9	188.4	-8.63	-1.78	18.14	8.93
159.00	158.66	8.9	188.4	-8.81	-1.81	18.50	8.93
160.00	159.65	8.9	190.1	-8.95	-1.85	18.86	8.96
161.00	160.65	8.9	190.1	-9.09	-1.89	19.22	8.96
162.00	161.65	8.9	190.1	-9.23	-1.93	19.58	8.96
163.00	162.64	8.9	188.4	-9.37	-1.96	19.94	8.93
164.00	163.64	8.9	188.4	-9.51	-1.99	20.30	8.93
165.00	164.64	8.9	188.4	-9.65	-2.02	20.66	8.93
166.00	165.63	8.9	190.1	-9.80	-2.05	21.02	8.96
167.00	166.63	8.9	190.1	-9.95	-2.08	21.38	8.96
168.00	167.63	8.9	190.1	-10.10	-2.11	21.74	8.96
169.00	168.62	8.3	179.2	-10.31	-2.16	22.09	9.29
170.00	169.62	8.3	179.2	-10.31	-2.16	22.44	9.29
171.00	170.62	8.3	179.2	-10.31	-2.16	22.79	9.29
172.00	171.61	8.6	180.1	-10.42	-2.18	23.14	9.59
173.00	172.61	8.6	180.1	-10.53	-2.21	23.49	9.59
174.00	173.61	8.6	180.1	-10.64	-2.23	23.84	9.59
175.00	174.60	8.9	180.8	-10.76	-2.25	24.19	9.89
176.00	175.60	8.9	180.8	-10.88	-2.28	24.54	9.89
177.00	176.60	8.9	180.8	-11.00	-2.30	24.89	9.89
178.00	177.59	9.2	180.6	-11.13	-2.32	25.24	10.20
179.00	178.59	9.2	180.6	-11.27	-2.35	25.59	10.20
180.00	179.59	9.2	180.6	-11.41	-2.38	25.94	10.20
181.00	180.58	9.4	181.7	-11.57	-2.39	26.29	10.51
182.00	181.58	9.4	181.7	-11.73	-2.41	26.64	10.51
183.00	182.58	9.4	181.7	-11.89	-2.42	26.99	10.51
184.00	183.57	9.1	180.5	-12.04	-2.44	27.34	10.21
185.00	184.57	9.1	180.5	-12.19	-2.46	27.69	10.21
186.00	185.57	9.1	180.5	-12.34	-2.48	28.04	10.21
187.00	186.56	9.2	181.1	-12.49	-2.50	28.39	10.36
188.00	187.56	9.2	181.1	-12.64	-2.52	28.74	10.36
189.00	188.56	9.2	181.1	-12.79	-2.54	29.09	10.36
190.00	189.55	9.4	181.7	-12.95	-2.56	29.44	10.51
191.00	190.55	9.4	181.7	-13.11	-2.58	29.79	10.51
192.00	191.55	9.4	181.7	-13.27	-2.59	30.14	10.51
193.00	192.54	9.5	181.7	-13.43	-2.61	30.49	10.66
194.00	193.54	9.5	181.7	-13.59	-2.63	30.84	10.66
195.00	194.54	9.5	181.7	-13.75	-2.65	31.19	10.66
196.00	195.53	9.6	182.4	-13.92	-2.67	31.54	10.81
197.00	196.53	9.6	182.4	-14.09	-2.69	31.89	10.81
198.00	197.53	9.6	182.4	-14.26	-2.71	32.24	10.81
199.00	198.52	9.8	183.0	-14.44	-2.73	32.59	10.95
200.00	199.52	9.8	183.0	-14.62	-2.75	32.94	10.95
201.00	200.52	9.8	183.0	-14.80	-2.77	33.29	10.95
202.00	201.51	9.9	184.3	-14.98	-2.78	33.64	11.09
203.00	202.51	9.9	184.3	-15.17	-2.80	33.99	11.09
204.00	203.50	10.0	184.6	-15.36	-2.81	34.34	11.23
205.00	204.50	10.0	184.6	-15.56	-2.83	34.69	11.23
206.00	205.50	10.0	184.6	-15.75	-2.84	35.04	11.23
207.00	206.49	10.2	184.9	-15.95	-2.86	35.39	11.37
208.00	207.49	10.2	184.9	-16.15	-2.87	35.74	11.37
209.00	208.49	10.2	184.9	-16.35	-2.89	36.09	11.37
210.00	209.48	10.4	185.2	-16.56	-2.90	36.44	11.51
211.00	210.48	10.4	185.2	-16.77	-2.92	36.79	11.51
212.00	211.48	10.4	185.2	-16.98	-2.93	37.14	11.51
213.00	212.47	10.7	185.5	-17.20	-2.95	37.49	11.65
214.00	213.47	10.7	185.5	-17.42	-2.97	37.84	11.65
215.00	214.47	10.7	185.5	-17.64	-2.98	38.19	11.65
216.00	215.46	10.9	185.8	-17.87	-3.00	38.54	11.79
217.00	216.46	10.9	185.8	-18.10	-3.01	38.89	11.79
218.00	217.46	10.9	185.8	-18.33	-3.03	39.24	11.79
219.00	218.45	11.1	186.1	-18.57	-3.04	39.59	11.93
220.00	219.45	11.1	186.1	-18.81	-3.06	39.94	11.93
221.00	220.45	11.1	186.1	-19.05	-3.07	40.29	11.93
222.00	221.44	11.3	186.4	-19.30	-3.09	40.64	12.08
223.00	222.44	11.3	186.4	-19.55	-3.10	40.99	12.08
224.00	223.44	11.3	186.4	-19.80	-3.12	41.34	12.08
225.00	224.43	11.5	186.7	-20.05	-3.13	41.69	12.22
226.00	225.43	11.5	186.7	-20.31	-3.15	42.04	12.22
227.00	226.43	11.5	186.7	-20.57	-3.16	42.39	12.22
228.00	227.42	11.7	187.0	-20.83	-3.18	42.74	12.37
229.00	228.42	11.7	187.0	-21.09	-3.19	43.09	12.37
230.00	229.42	11.7	187.0	-21.36	-3.21	43.44	12.37
231.00	230.41	11.9	187.3	-21.63	-3.22	43.79	12.51
232.00	231.41	11.9	187.3	-21.91	-3.24	44.14	12.51
233.00	232.41	11.9	187.3	-22.18	-3.25	44.49	12.51
234.00	233.40	12.1	187.6	-22.46	-3.27	44.84	12.66
235.00	234.40	12.1	187.6	-22.74	-3.28	45.19	12.66
236.00	235.40	12.1	187.6	-23.02	-3.30	45.54	12.66
237.00	236.39	12.3	187.9	-23.31	-3.31	45.89	12.80
238.00	237.39	12.3	187.9	-23.59	-3.33	46.24	12.80
239.00	238.39	12.3	187.9	-23.88	-3.34	46.59	12.80
240.00	239.38	12.5	188.2	-24.17	-3.36	46.94	12.95
241.00	240.38	12.5	188.2	-24.46	-3.37	47.29	12.95
242.00	241.38	12.5	188.2	-24.75	-3.39	47.64	12.95
243.00	242.37	12.7	188.5	-25.05	-3.40	47.99	13.09
244.00	243.37	12.7	188.5	-25.35	-3.42	48.34	13.09
245.00	244.37	12.7	188.5	-25.64	-3.43	48.69	13.09
246.00	245.36	12.9	188.8	-25.94	-3.45	49.04	13.23
247.00	246.36	12.9	188.8	-26.24	-3.46	49.39	13.23
248.00	247.36	12.9	188.8	-26.54	-3.48	49.74	13.23
249.00	248.35	13.1	189.1	-26.85	-3.49	50.09	13.37
250.00	249.35	13.1	189.1	-27.15	-3.51	50.44	13.37
251.00	250.35	13.3	200.2	-27.45	-3.60	50.80	13.50

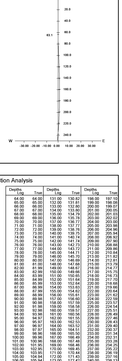
Cross Section

All Figures are Log Depths in metres

Target Origin Depth 63.10
Last Plotted Depth 252.00
Cross Section Displayed at multiples of 20
First Depth Marker at 64
Last Depth Marker at 240

Plot With Respect to True North

Scale 1:500
Declination: 18.1 deg East



Vertical Sections

North-South Section

East-West Section

(True Depth or Displacement)

Vertical Scale 1:2000
Horizontal Scale 1:1000

Markers annotated as above

Depth Correction Analysis

Vertical Scale 1:2000
Horizontal Scale 1:50

Depths			Depths			Depths		
Log	True	Corr	Log	True	Corr	Log	True	Corr
63.10	63.10	0.00	112.00	111.91	-0.09	160.00	159.76	-0.24
65.00	65.00	0.00	113.00	112.91	-0.09	161.00	160.76	-0.24
67.00	67.00	0.00	114.00	113.91	-0.09	162.00	161.76	-0.24
69.00	69.00	0.00	115.00	114.91	-0.09	163.00	162.76	-0.24
69.00	68.99	-0.00	116.00	115.90	-0.10	164.00	163.76	-0.24
71.00	70.99	-0.01	117.00	116.90	-0.10	165.00	164.76	-0.24
73.00	72.99	-0.01	118.00	117.90	-0.10	166.00	165.76	-0.24
75.00	74.99	-0.01	119.00	118.90	-0.10	167.00	166.76	-0.24
77.00	76.99	-0.01	120.00	119.90	-0.10	168.00	167.76	-0.24
79.00	78.99	-0.01	121.00	120.90	-0.10	169.00	168.76	-0.24
81.00	80.99	-0.01	122.00	121.87	-0.13	170.00	169.76	-0.24
83.00	82.99	-0.01	123.00	122.87	-0.13	171.00	170.76	-0.24
85.00	84.99	-0.01	124.00	123.87	-0.13	172.00	171.76	-0.24
87.00	86.99	-0.01	125.00	124.85	-0.15	173.00	172.76	-0.24
89.00	88.99	-0.01	126.00	125.85	-0.15	174.00	173.76	-0.24
91.00	90.99	-0.01	127.00	126.85	-0.15	175.00	174.76	-0.24
93.00	92.98	-0.02	128.00	127.83	-0.17	176.00	175.76	-0.24
95.00	94.97	-0.03	129.00	128.83	-0.17	177.00	176.76	-0.24
97.00	96.97	-0.03	130.00	129.83	-0.17	178.00	177.76	-0.24
99.00	98.96	-0.04	131.00	130.82	-0.18	179.00	178.76	-0.24
101.00	100.95	-0.05	132.00	131.82	-0.18	180.00	179.76	-0.24
103.00	102.94	-0.06	133.00	132.82	-0.18	181.00	180.76	-0.24
105.00	104.94	-0.06	134.00	133.81	-0.19	182.00	181.76	-0.24
107.00	106.94	-0.06	135.00	134.79	-0.21	183.00	182.76	-0.24
109.00	108.93	-0.07	136.00	135.79	-0.21	184.00	183.76	-0.24
111.00	110.91	-0.09	137.00	136.77	-0.23	185.00	184.76	-0.24
113.00	112.91	-0.09	138.00	137.77	-0.23	186.00	185.76	-0.24
115.00	114.91	-0.09	139.00	138.77	-0.23	187.00	186.76	-0.24
117.00	116.90	-0.10	140.00	139.76	-0.24	188.00	187.76	-0.24
119.00	118.90	-0.10	141.00	140.74	-0.26	189.00	188.76	-0.24
121.00	120.90	-0.10	142.00	141.74	-0.26	190.00	189.76	-0.24
123.00	122.87	-0.13	143.00	142.73	-0.27	191.00	190.76	-0.24
125.00	124.85	-0.15	144.00	143.72	-0.28	192.00	191.76	-0.24
127.00	126.85	-0.15	145.00	144.72	-0.28	193.00	192.76	-0.24
129.00	128.83	-0.17	146.00	145.72	-0.28	194.00	193.76	-0.24
131.00	130.82	-0.18	147.00	146.69	-0.31	195.00	194.76	-0.24
133.00	132.82	-0.18	148.00	147.69	-0.31	196.00	195.76	-0.24
135.00	134.79	-0.21	149.00	148.69	-0.31	197.00	196.76	-0.24
137.00	136.77	-0.23	150.00	149.68	-0.32	198.00	197.76	-0.24
139.00	138.77	-0.23	151.00	150.68	-0.32	199.00	198.76	-0.24
141.00	140.74	-0.26	152.00	151.68	-0.32	200.00	199.76	-0.24
143.00	142.73	-0.27	153.00	152.68	-0.32	201.00	200.76	-0.24
145.00	144.72	-0.28	154.00	153.67	-0.33	202.00	201.76	-0.24
147.00	146.69	-0.31	155.00	154.67	-0.33	203.00	202.76	-0.24
149.00	148.69	-0.31	156.00	155.67	-0.33	204.00	203.76	-0.24
151.00	150.68	-0.32	157.00	156.66	-0.34	205.00	204.76	-0.24
153.00	152.68	-0.32	158.00	157.66	-0.34	206.00	205.76	-0.24
155.00	154.67	-0.33	159.00	158.66	-0.34	207.00	206.76	-0.24
157.00	156.66	-0.34	160.00	159.65	-0.35	208.00	207.76	-0.24
159.00	158.66	-0.34	161.00	160.65	-0.35	209.00	208.76	-0.24
161.00	160.65	-0.35	162.00	161.65	-0.35	210.00	209.76	-0.24
163.00	162.64	-0.36	163.00	162.64	-0.36	211.00	210.76	-0.24
165.00	164.64	-0.36	164.00	163.64	-0.36	212.00	211.76	-0.24
167.00	166.63	-0.37	165.00	164.64	-0.36	213.00	212.76	-0.24
169.00	168.62	-0.38	166.00	165.63	-0.37	214.00	213.76	-0.24
171.00	170.62	-0.38	167.00	166.63	-0.37	215.00	214.76	-0.24
173.00	172.61	-0.39	168.00	167.63	-0.37	216.00	215.76	-0.24
175.00	174.60	-0.40	169.00	168.62	-0.38	217.00	216.76	-0.24
177.00	176.60	-0.40	170.00	169.62	-0.38	218.00	217.76	-0.24
179.00	178.59	-0.41	171.00	170.62	-0.38	219.00	218.76	-0.24
181.00	180.58	-0.42	172.00	171.61	-0.39	220.00	219.76	-0.24
183.00	182.58	-0.42	173.00	172.61	-0.39	221.00	220.76	-0.24
185.00	184.57	-0.43	174.00	173.61	-0.39	222.00	221.76	-0.24
187.00	186.56	-0.44	175.00	174.60	-0.40	223.00	222.76	-0.24
189.00	188.56	-0.44	176.00	175.60	-0.40	224.00	223.76	-0.24
191.00	190.55	-0.45	177.00	176.60	-0.40	225.00	224.76	-0.24
193.00	192.54	-0.46	178.00	177.59	-0.41	226.00	225.76	-0.24
195.00	194.54	-0.46	179.00	178.59	-0.41	227.00	226.76	-0.24
197.00	196.53	-0.47	180.00	179.59	-0.41	228.00	227.76	-0.24
199.00	198.52	-0.48	181.00	180.58	-0.42	229.00	228.76	-0.24
201.00	200.52	-0.48	182.00	181.58	-0.42	230.00	229.76	-0.24
203.00	202.51	-0.49	183.00	182.58	-0.42	231.00	230.76	-0.24
205.00	204.50	-0.50	184.00	183.57	-0.43	232.00	231.76	-0.24
207.00	206.49	-0.51	185.00	184.57	-0.43	233.00	232.76	-0.24
209.00	208.49	-0.51	186.00	185.57	-0.43	234.00	233.76	-0.24
211.00	210.48	-0.52	187.00	186.56	-0.44	235.00	234.76	-0.24
213.00	212.47	-0.53	188.00	187.56	-0.44	236.00	235.76	-0.24
215.00	214.47	-0.53	189.00	188.56	-0.44	237.00	236.76	-0.24
217.00	216.46	-0.54

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-008
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

UWI	Latitude	Longitude	Section	Township	Range	Meridian

Elevation Kelly Bushing	Elevation Drill Floor	Elevation Ground Level	Log Measured From	Drilling Measured From	Permanent Datum
metres	metres	metres	Kelly Bushing	Kelly Bushing	Ground Level
			0.00	0.00	GROUND LEVEL

Date	Run No.	TD Driller	TD Logger	Top Log Int.	Bottom Log Int.	Casing Driller	Casing Logger	Bit Size	Type Fluid in Hole	Density	Viscosity	Source of Sample	Rm @ Measured Temp	Rmf @ Measured Temp	Rmc @ Measured Temp	Source Rmf/Rmc	Rm @ BHT	Max Rec Temp	Equipment Number	Location	Recorded By	Witnessed By
20-JUN-2009	ONE	254.00	250.07	0.00	250.07	250.07	250.07	159.00	WATER												D.MILLER	C.LEITCH-DORAY

Elevations	
KB	metres
DF	
GL	

BOREHOLE RECORD

Last Edited: 20-JUN-2009 14:09

Bit Size millimetres	Depth From metres	Depth To metres
168.900	0.00	71.90
147.000	71.90	250.06

CASING RECORD

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

REMARKS

LOGGED THROUGH DRILL PIPE

STARTED LOGS @ 247.01M TO AVOID BIT ASSEMBLY.

COORDINATES:
NORTHING:
5464925
EASTING:
365480

TOOL RUNS:
DDII, NN2

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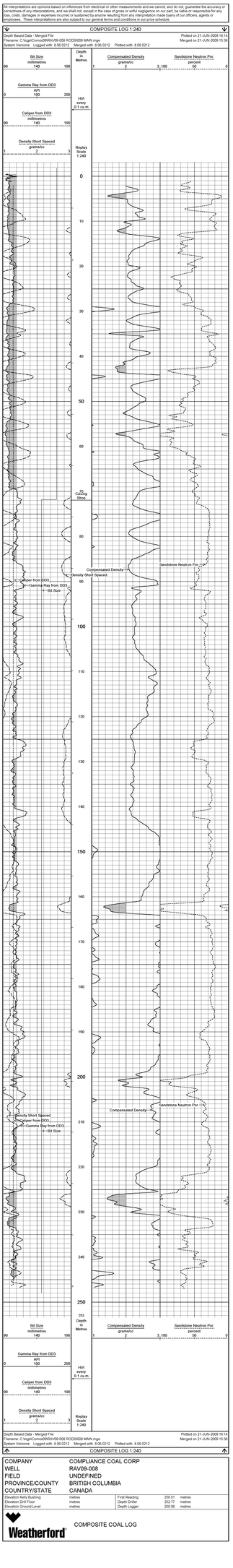
COMPOSITE LOG 1:240

Depth Based Data - Merged File — Plotted on 21-JUN-2009 16:14
Filename: C:\logic\Consol\RAV09-008 RODII\DDII MAIN.mge — Merged on 21-JUN-2009 15:38
System Versions: Logged with: 8.06.0212 Merged with: 8.06.0212 Plotted with: 8.06.0212



Depth Based Data - Merged File — Plotted on 21-JUN-2009 16:14
Filename: C:\logic\Consol\RAV09-008 RODII\DDII MAIN.mge — Merged on 21-JUN-2009 15:38
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	RAV09-008
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	250.01 metres
Elevation Drill Floor	metres	Depth Driller	252.77 metres
Elevation Ground Level	metres	Depth Logger	250.06 metres

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COMPOSITE COAL LOG

Weatherford Canada Partnership

Well Name: 1-1-97-19 (Surface Location: 1-1-97-19 W6M)

Operator: COMPLEXE COAL CORP

Field: WILDCAT

Pool: UNDEFINED

Province: BRITISH COLUMBIA

Country: CANADA

Date: Friday, July 13, 2012

Time: 12:00 AM

Rig: 1

Elevation: 0.00 m

Depth Reference: Ground Level

Log Date: Friday, July 13, 2012

Log Time: 12:00 AM

Log Type: Initial Run

Log Number: 1

Run Number: 1

Depth Type: Driller

Depth Logged: 1.00 m

Depth Logged To: 1.00 m

Depth Scale: 1:200

Log Company: Weatherford Canada Partnership

Log Equipment: Mobile Lab

Logging Engineer: Brian Hoffman

Witnessed By: Jim Lowe

Comments:

Logged from surface casing shoe.

Logged from surface casing shoe to 1.0 m (not recorded on underbalance).

Disclaimer:

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BOREHOLE RECORD

Bit Size (mm)	Bit Type	Bit Condition	From (m)	To (m)
152.4	Drill Bit		0.00	1.00

CASING RECORD

Casing Size (mm)	Casing Type	Casing Weight (kg/m)	Casing Grade	Casing Thread	From (m)	To (m)
114.3	Casing	14.14	J55	LT&C	0.00	1.00

Equipment

Logging Unit: Mobile Lab (Mobile)

Logging Engineer: Brian Hoffman

Witnessed By: Jim Lowe

Sensors:

Gamma Ray

Density

Neutron

Caliper

Resistivity

Temperature

Pressure

Flow

Image

Sonic

Dipole Sonic

Cement Bond

Spectral Density

Spectral Gamma Ray

Neutron Porosity

Resistivity Array

Resistivity Image

Nuclear Magnetic Resonance

Formation Tester

Sidewall Core

Sidewall Gun

Perforating Gun

Tubing Conveyed Logging

Wireline Conveyed Logging

Logging While Drilling

Measurement While Drilling

Pressure While Drilling

Rotary Steerable System

Mud Logging

Other

Comments:

Logged from surface casing shoe.

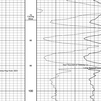
Logged from surface casing shoe to 1.0 m (not recorded on underbalance).

Gamma Ray (GR) Log

Gamma Ray Log - Depth Scale: 1:200 - Generated on: Friday, July 13, 2012 - Time: 12:00 AM

Company: COMPLEXE COAL CORP - Well: 1-1-97-19 (Surface Location: 1-1-97-19 W6M) - Field: WILDCAT - Province: BRITISH COLUMBIA - Country: CANADA

Weatherford Canada Partnership - Mobile Lab (Mobile) - Logging Engineer: Brian Hoffman - Witnessed By: Jim Lowe - Log Date: Friday, July 13, 2012 - Log Time: 12:00 AM - Log Type: Initial Run - Log Number: 1 - Run Number: 1 - Depth Type: Driller - Depth Logged: 1.00 m - Depth Logged To: 1.00 m - Depth Scale: 1:200 - Log Company: Weatherford Canada Partnership - Log Equipment: Mobile Lab - Depth Reference: Ground Level - Elevation: 0.00 m - Rig: 1 - Bit Size: 152.4 mm - Casing Size: 114.3 mm - Casing Weight: 14.14 kg/m - Casing Grade: J55 - Casing Thread: LT&C - Casing From: 0.00 m - Casing To: 1.00 m


Gamma Ray (GR)
0 API 150
Caliper (Cal)
6 in 16 in
Bit Size
152.4 mm
Casing Size (OD)
114.3 mm
Depth Scale
1:200
Gamma Ray (GR)
Caliper (Cal)
Bit Size
Casing Size (OD)
Depth

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-008
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
UWI	
LSD	SEC	TWP	RGE
Licence Number	
Permanent Datum: GL, Elevation: NA metres	
Log Measured From: GROUND LEVEL above Permanent Datum	
Drilling Measured From:	
Date	
Run Number	
Depth Driller	252.77 metres
Depth Logger	250.06 metres
First Reading	250.01 metres
Last Reading	0.00 metres
Casing Driller	71.90 metres
Casing Logger	71.90 metres
Bit Size	
Hole Fluid Type	WATER
Density / Viscosity	
PH / Fluid Loss	
Sensor Source	
Rmf @ Measured Temp	
Rmc @ Measured Temp	
Rm @ Measured Temp	
Source Rmf / Rmc	
Rm @ BHT	
Time Since Circulation	
Time Since Last Logged	
Max Recorded Temp	
Equipment / Base	
Equipment / Name	11536 RGR
Recorded By	C.SHUPE
Witnessed By	O.CULLINGHAM
Other Services	
Elevations: KB, DF, GL (metres)	20-JUN-2009

BOREHOLE RECORD

Last Edited: 20-JUN-2009 14:09

Bit Size millimetres	Depth From metres	Depth To metres
168.900	0.00	71.90
147.000	71.90	250.06

CASING RECORD

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

REMARKS

LOGGED THROUGH DRILL PIPE.

STARTED LOGS @ 247.01M TO AVOID BIT ASSEMBLY.

COORDINATES:
NORTHING:
5483620
EASTING:
365480

TOOL RUNS:
DD6, NN2

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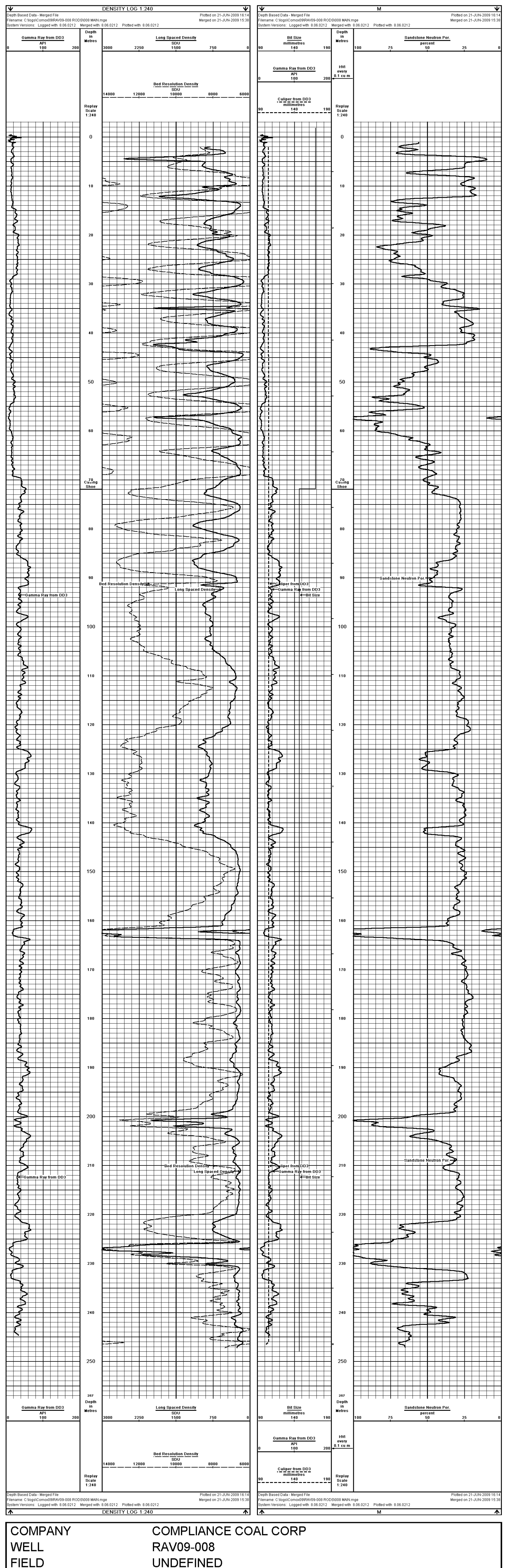

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-008		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	250.01 metres
Elevation Drill Floor	metres	Depth Driller	252.77 metres
Elevation Ground Level	metres	Depth Logger	250.06 metres

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MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAVOS-008
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

NEUTRON POROSITY
GAMMA RAY, CALIPER

Weatherford

BOREHOLE RECORD

Bit Size (mm in)	Depth From (mm in)	Depth To (mm in)	Last Drilled
152.40 6.00	0.00 0.00	200.00 7.87	20-JUN-2008

CASING RECORD

Type	Size (mm in)	Depth From (mm in)	Depth To (mm in)	Weight (kg/m lb/ft)

REMARKS

LOGGED THROUGH DRILL PIPE

STARTED LOGGING JUST BELOW TO AVOID SET ASSEMBLY.

COORDINATES
NAD83
NORTHING
EASTING
ZONE
ELEVATION
SITE: RAVOS
SOIL: MILD

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MAIN LOG 1:240

Depth Based Data - Merged File
Filename: C:\logs\Canada\RAVOS-008-NO\008-NR.log
Filename: C:\logs\Canada\RAVOS-008-NO\008-NR\008-NR.log

Plotted on 21-JUN-2008 16:15
Merged on 21-JUN-2008 15:36

Gamma Ray from DDS
Caliper from DDS
Neutron Porosity from DDS
Depth Scale 1:240

REPEAT SECTION

Depth Based Data - Merged File
Filename: C:\logs\Canada\RAVOS-008-NO\008-NR\008-NR\008-NR.log
Filename: C:\logs\Canada\RAVOS-008-NO\008-NR\008-NR\008-NR

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-009		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	222.00 metres
Elevation Drill Floor	metres	Depth Driller	222.87 metres
Elevation Ground Level	metres	Depth Logger	222.07 metres

Weatherford

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-009		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	222.00 metres
Elevation Drill Floor	metres	Depth Driller	222.87 metres
Elevation Ground Level	metres	Depth Logger	222.07 metres

Depth Based Data - Merged File
Filename: C:\logs\Canoe2009\RAV09-009MAIN.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 26-JUN-2009 17:33
Merged on 24-JUN-2009 18:01

BOREHOLE RECORD

Last Edited: 24-JUN-2009 17:46

Bit Size millimetres	Depth From metres	Depth To metres
140.000	0.00	126.00
147.000	126.00	222.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/metre
Surface Casing	244.500	0.00	20.00	

REMARKS

COORDINATES
NORTH=843
0483860

GAGTING
365100

TOOL RUNS
RMN,DDM,MSZ,VRT

BORE WALL COND : MEDIUM
BORE HOLE COND : GOOD

WELL NOT FLOWING

WELL WAS LOGGED STAND ALONE

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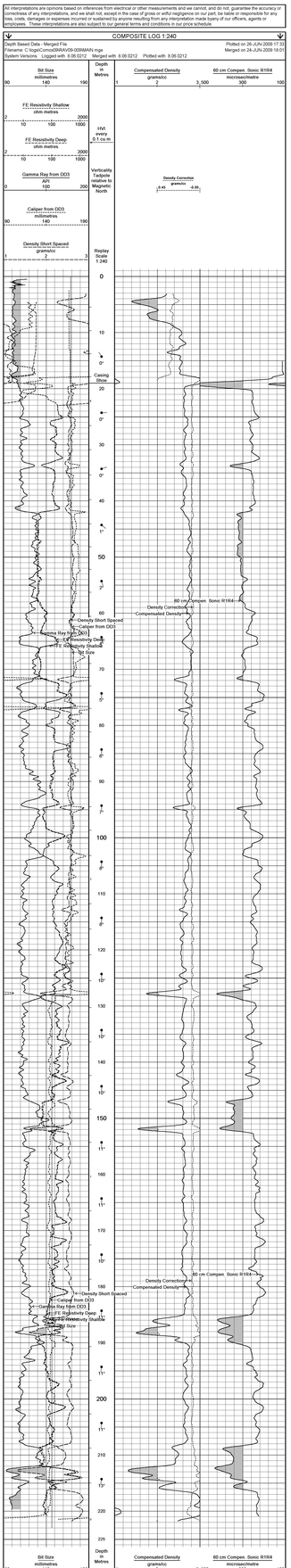
COMPOSITE LOG 1:240



Depth Based Data - Merged File
Filename: C:\logs\Canoe2009\RAV09-009MAIN.mge
System Versions: Logged with 8.06.0212 Merged with 8.06.0212 Plotted with 8.06.0212

Plotted on 26-JUN-2009 17:33
Merged on 24-JUN-2009 18:01

COMPOSITE LOG 1:240

Weatherford

COMPANY CONOCOPHILLIPS
WELL RIVER 008
FIELD RIVER 008
PROVINCE/COUNTY BRITISH COLUMBIA
COORDINATES 0-0-0-0 **LSD** **TWP** **RGE** **W4M**
LOCATION **SEC** **ELEV** **KB** **DF** **GL**
LICENSE **SPUD** **COMP** **ABAND**
DATE **RIG** **TD** **PBTD** **CASING** **LINER** **TUBING**
DRILLING FLUID **BIT** **DRILL TIME** **CORE** **DST**
DRILLING CONTRACTOR CHINA RIG CALIFOR
LOG DATE CHINA RIG CALIFOR
LOG DATE CHINA RIG CALIFOR

DEPTH SCALE 1:240 (Metres)
DATE 2011-Jan-01 **TIME** 00:00 **DEPTH** 0.00 **ROP** 0.00 **WOB** 0.00 **RPM** 0.00 **PUMP** 0.00 **PRESS** 0.00 **TORQUE** 0.00 **FLOW** 0.00 **MUD WT** 0.00 **VISC** 0.00 **PV** 0.00 **YP** 0.00 **GEL** 0.00 **FILTRATE** 0.00 **PH** 0.00 **CHLORIDES** 0.00 **SOLIDS** 0.00 **SAND** 0.00 **MBT** 0.00 **CAKE** 0.00 **PM** 0.00 **PF** 0.00 **MF** 0.00 **CALCIUM** 0.00 **LCM** 0.00 **ECD** 0.00 **GAS** 0.00 **CONN GAS** 0.00 **TRIP GAS** 0.00 **BACKGROUND GAS** 0.00 **CHLORINE** 0.00 **H2S** 0.00 **LITHOLOGY**

**

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

WELL	RAVOS-009
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
CONTRACTOR	COMPLIANCE COAL CORP
LOCATION	0-0-0-0
LSD	0
SECTION	0
TOWNSHIP	0
RANGE	0
W3M	0
FOOTAGE	0 FSL 0 FEL
LATITUDE	0
LONGITUDE	0
ELEVATION	0
LICENCE	0
SPUD	0
DATE	0
STATUS	0
TYPE	0
PROPOSED TD	0
ACTUAL TD	0
CONTRACTOR	0
RIG	0
KB	0
GR	0
DF	0
TD	0
CASING	0
LOGGED	0
RUN	0
DRILLED	0
SHOWS	0
OILS	0
WATER	0
REMARKS	0

BOREHOLE RECORD

Bit Size	Interval
200.000	0.00
190.500	128.00
152.400	1128.00

Last Edited: 24-JUN-2009 17:46

CASING RECORD

Type	Size	Depth From	Shoe Depth	Weight
	0.000	0.00	0.00	0.000

REMARKS

CLEARWATER
SASKATCHEWAN
CANADA
DRILLING
WATER

TOTAL RUNS:
SINGLES/HELIKPT

BORE WALL CONC - MEDIUM
BORE WALL CONC - LARGE

WELL NOT PLUGGED

WELL WAS CONDITIONED ALONE

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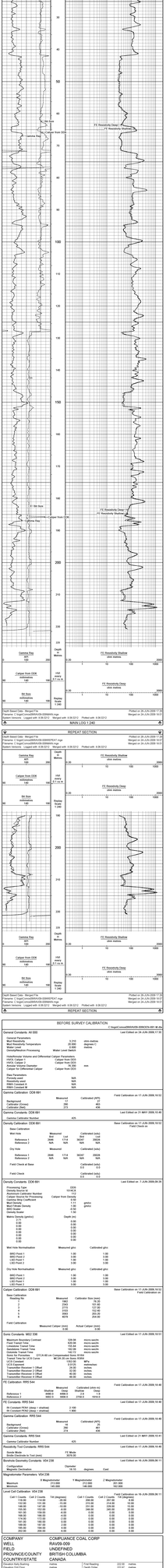
MAIN LOG 1:240

Depth Reset Date - Merged File
Filename: C:\logs\Compliance\RAVOS-009\RAVOS.mgx
Sensors Selected - Logged with 9.08.01C2 Pulled with 9.08.01C2

Printed on 24-JUN-2009 17:46
Merged on 24-JUN-2009 17:46


General Purpose
API
Gamma Ray
Caliper from DDR
Bit Size
Caliper Bit
Caliper Bit

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-009
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
UWI	

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

Elevations: metres
KB
DF
GL

Date	24-JUN-2009
Run Number	1
Depth Driller	222.87 metres
Depth Logger	222.07 metres
First Reading	222.00 metres
Last Reading	0.00 metres
Casing Driller	19.00 metres
Casing Logger	19.00 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	691
Equipment / Base	11536 RDR
Recorded By	J.MELANSON
Witnessed By	O.CULLINGHAM

BOREHOLE RECORD

Last Edited: 24-JUN-2009 17:46

Bit Size millimetres	Depth From metres	Depth To metres
168.900	0.00	128.00
147.000	128.00	222.00

CASING RECORD

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

REMARKS

COORDINATES:
NORTHING:
5483890

EASTING:
365100

TOOL RUNS:
RR5,DD6,MS2,VRT

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

WELL NOT FLOWING

WELL WAS LOGGED STAND ALONE

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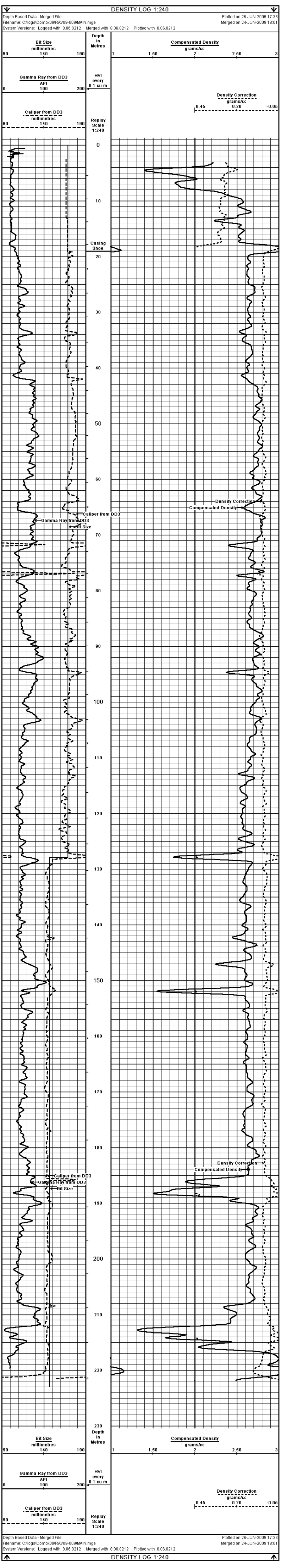

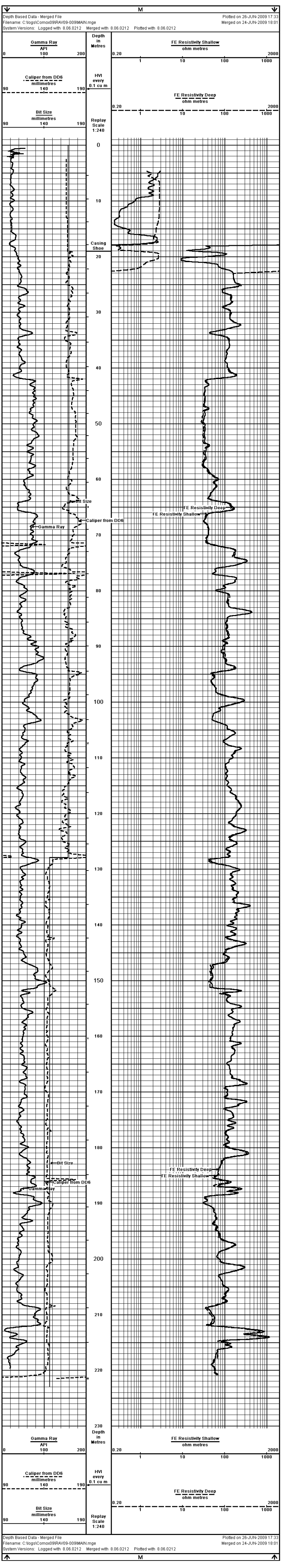

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-009
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	222.00	metres
Elevation Drill Floor	metres	Depth Driller	222.87	metres
Elevation Ground Level	metres	Depth Logger	222.07	metres

Weatherford®

MINI PLOT

60CM COMPENSATED SONIC

COMPANY COMPLIANCE COAL CORP
WELL RAVEN-009
FIELD UNDEFINED
PROVINCE/COUNTRY BRITISH COLUMBIA
COUNTRY/STATE CANADA
Weatherford

Total Depth	222.00	metres	
Depth Logged	222.00	metres	
Depth Logged	222.00	metres	

BOREHOLE RECORD

Bit Size	Depth In	Depth Out
152.400	0.00	222.00

Last Dated: 24-JUN-2009 17:40

CASING RECORD

Type	Size millimetres	Grade From	Grade To	Wt/Ft kg/m	Weight Type

REMARKS

CONTRACTOR
NORTHERN
RIG
Helicopter
BIT#1R

TOOL TYPE
SONIC

BORE WALL COND - MEDIUM
BORE HOLE COND - GOOD

WELL NOT FLOWING

BOREHOLE FLUID - WATER ALONE

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WAVEFORM LOG

Sand Desert Data - Morgan1Tie
Filename: C:\logs\Compliance\RAVEN-009\RAVEN.mpr
Session Volume: Compliance Coal Corp - Raven-009 - 1 of 1 - Raven-009 - 1 of 1 - Raven-009 - 1 of 1

VERTICALITY ANALYSIS

COMPANY: COMPLIANCE COAL CORP
WELL: RAV09-009
FIELD: UNDEFINED
PROVINCE/COUNTRY: BRITISH COLUMBIA
COORDINATES: NORTHING 5459950 ZONE 10 UTM
TOOL NUMBER: 1993-DOWELWD1
DATE: 24-JUN-2009
SURVEYED BY: DOWELL SCHLUMBERGER
CALCULATED BY: DOWELL SCHLUMBERGER
DOWNHOLE SOFTWARE: DOWELL SCHLUMBERGER
SURFACE SOFTWARE: DOWELL SCHLUMBERGER
DATA TYPE: RAW DATA
DATA SOURCE: DOWELL SCHLUMBERGER
DATA PRESENTATION: MAGNETIC
DATA QUALITY: GOOD
DATA INTERPRETATION: DOWELL SCHLUMBERGER
DATE PROCESSED: 24-JUN-2009
PROCESSED BY: DOWELL SCHLUMBERGER
PROCESSING SOFTWARE: DOWELL SCHLUMBERGER
PROCESSING PARAMETERS: DEFAULT
DATA PROCESSED: ALL
DEPTH UNITS: METRES
DIP: 90.00
DECLINATION: 19.1 deg East
GRID CORRECTION: 0.00
MAGNETIC FIELD STRENGTH: 0.00
HORIZ. COMPONENT: 0.00
TOTAL FIELD: 0.00
MAGNETIC DIP: 0.00
MAGNETIC DECLINATION: 0.00
FIELD DRIFT: 0.00
MAGNETIC MODEL: BGGM 2008
DATE: 01-JAN-2009
SONG: 0.00
GRAVITY: 0.00
GRAVITY DRIFT: 0.00
GRAVITY TIDE: 0.00
DATE: 24-JUN-2009
SURVEY TYPE: DOWELL SCHLUMBERGER
SURVEY COMPANY: DOWELL SCHLUMBERGER
SURVEY NUMBER: 1993-DOWELWD1
SURVEY DATE: 24-JUN-2009
SURVEY DIP: 90.00
SURVEY AZIMUTH: 0.00
SURVEY FIELD STRENGTH: 0.00
SURVEY HORIZ. COMPONENT: 0.00
SURVEY TOTAL FIELD: 0.00
SURVEY MAGNETIC DIP: 0.00
SURVEY MAGNETIC DECLINATION: 0.00
SURVEY FIELD DRIFT: 0.00
SURVEY MAGNETIC MODEL: BGGM 2008
SURVEY DATE: 01-JAN-2009
SURVEY SONG: 0.00
SURVEY GRAVITY: 0.00
SURVEY GRAVITY DRIFT: 0.00
SURVEY GRAVITY TIDE: 0.00
SURVEY

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAVO9-010
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

LSD	SEC	TWP	RGE	Grade Elevation

Elevation Kelly Bushing metres
Elevation Drill Floor metres
Elevation Ground Level metres
Log Measured from GROUND LEVEL above Permanent Datum
Date 23-JUN-2009
Elevations KB 0.00 metres
GL 15.01 metres

Equipment Name	Equipment Type
Bow Rig 1 (BR1)	Drilling Rig
Bow Rig 1 (BR1)	Mud Pump
Bow Rig 1 (BR1)	Mud Pump
Bow Rig 1 (BR1)	Mud Mixing Tank
Bow Rig 1 (BR1)	Mud Mixing Tank
Bow Rig 1 (BR1)	Mud Mixing Tank

Weatherford

COMPANY CLAIR OIL & GAS CORP.
WELL CLAIR #1
FIELD HANNEGAN
PROVINCE/COUNTY BRITISH COLUMBIA
PROJECT NO. 8000

Date	Time	Depth
2006-Jul-12	23:00	1,000
2006-Jul-13	23:00	2,000
2006-Jul-14	23:00	3,000

CONTACT INFORMATION

Field Office	Fax	Cellular	Pager
Engineer			
Operator			
Rig			

Contact Information

Name	Phone	Email

Rig Information

Rig Name	Rig Type	Rig Phone	Rig Fax	Rig Email

Comments

Comments

Equipment

Equipment

Personnel

Personnel

Operations

Operations

Weather

Weather

Mud

Mud

Bit

Bit

Hydraulics

Hydraulics

Pump Data

Pump Data

Survey

Survey

Formation

Formation

Gas

Gas

Cost

Cost

Time

Time

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-010
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Licence Number			
Permanent Datum	GL	Elevation	MK metres
Log Measured From	KB	Above Permanent Datum	25.14 metres
Drilling Measured From	KB		

Run Number	1		
Date	23-JUN-2009		
Depth Driller	201.62	metres	
Depth Logger	201.51	metres	
Bottom Log Interval	201.51	metres	
Top Log Interval	0.00	metres	
Casing Driller	15.01	metres	
Casing Logger	15.01	metres	
Bit Size	101.300	metres	
Type Fluid in Hole	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 / Base	11S3A6		
Equipment / Flange			
Tool Number	DGR		
Witnessed By	O.CLEVERGHAM		

Log Acceptable		
Log Recorded		
Equipment Failure		

BOREHOLE RECORD

Last Edited: 23-JUN-2009 03:59

Bit Size millimetres	Depth From metres	Depth To metres
108.000	0.00	15.01
101.300	15.01	201.62

CASING RECORD

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

REMARKS

COORDINATES:
NORTHING:
5494730
EASTING:
364130

RUN 1
DFE, DDB, MSI2

WELL FLOWING.

SONIC GOT STUCK 157M, AND 162M.

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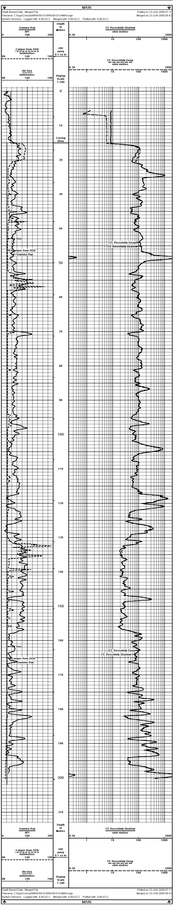

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-010		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	201.51 metres
Elevation Drill Floor	metres	Depth Driller	201.62 metres
Elevation Ground Level	metres	Depth Logger	201.62 metres

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MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAVSB-012
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

DUAL FOCUSSED ELECTRIC GAMMA RAY, CALIPER

Log Date	17-JUN-2009	Run Number	1
Depth Reference	Kelly Bushing	Elevation	0.00 metres
Depth Datum	Ground Level	Elevation	0.00 metres

Weatherford

COMPANY: COMPLIANCE COAL CORP
WELL: RAVSB-012
FIELD: UNDEFINED
PROVINCE: BRITISH COLUMBIA
COUNTRY: CANADA
LATITUDE: 49.7000
LONGITUDE: -124.9000
SECTION: 00
TOWNSHIP: 00
RANGE: 00
PERMANENT DATUM: Ground Level
ELEVATION: 0.00 metres
LOG MEASURED FROM: Kelly Bushing
DRILLING MEASURED FROM: Kelly Bushing
ELEVATION: 0.00 metres
DATE: 17-JUN-2009
RUN NUMBER: 1
DEPTH UNIT: Metres
DEPTH DATUM: Ground Level
DEPTH REFERENCE: Kelly Bushing
DEPTH DATUM: Ground Level
DEPTH REFERENCE: Kelly Bushing
DRILLING FLUID: Water
DRILLING FLUID DENSITY: 1.00 g/cm3
DRILLING FLUID VISCOSITY: 0.00 mPa.s
DRILLING FLUID PH: 0.00
DRILLING FLUID WATER LOSS: 0.00 ml/30min
DRILLING FLUID RESISTIVITY: 0.00 ohm.m
DRILLING FLUID SAMPLE SOURCE: Flowline
DRILLING FLUID MAX TEMP RECORDED: 0.00 degrees C
BOTTOM HOLE TEMPERATURE: 0.00 degrees C
TIME CIRCULATION ENDED: 00:00
TIME LOGGER ON BOTTOM: 00:00
MAXIMUM RECORDED TEMPERATURE: 0.00 degrees C
EQUIPMENT NUMBER: 0000
LOCATION: 0000
RECORDED BY: 0000
WITNESSED BY: 0000

BOREHOLE RECORD

Bit Size millimeters	Depth From metres	Depth To metres	Last Edited: 21-JUN-2009 08:45 Hole Type
139.700	0.00	15.00	Open
101.600	15.00	20.00	Open

CASING RECORD

Type	Size millimeters	Depth From metres	Depth To metres	Weight kg/metre
Casing Shoe	139.700	0.00	15.00	0.00

REMARKS

CLOCKWATER
NORTHING
SINATSO
EASTING
UNITED
DATE
0
DFE, SDB, MS2

WELL FLOWING

TONG GOT STUCK 10TH AND 16DH

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MAIN LOG 1:240

Depth Scale Units - Metres/FTile
Time Scale Units - Hours
Header Interval - 1 sec
Sample Interval - 1 sec
Tension Units - kilograms
Tension Range - 0 - 2000 kg
Tension Resolution - 1 kg
Tension Offset - 0 kg
Tension Source - Cable Head
Tension Type - Single Shot
Tension Sensor Serial Number - 0
Tension Sensor Calibration Date - 0
Tension Sensor Calibration Factor - 1.000
Tension Sensor Offset - 0.000
Tension Sensor Source - Cable Head
Tension Sensor

60CM COMPENSATED SONIC

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-010
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	Final Reading	200.00 metres
Elevation Ground	metres	Depth Logged	200.00 metres
Elevation Ground Level	metres	Depth Logged	200.00 metres

Weatherford

BORESHOLE RECORD

Last Entry: 21-JUN-2009 03:00

Bit Size	Depth From	Depth To
152.400	0.00	200.00
101.600	0.00	200.00

CASING RECORD

Type	Size (MM)	Depth From	Depth To	Shoe Depth	Weight (KG/M)
		0.00	200.00		

REMARKS

ESTIMATED NORTHING 5972000 EASTING 0 DATUM NAD 83 ZONE 11 DFS, DOS, MIC

WELL FLOWING

WAS DOT BEFORE DOW, ETM, AND NDM

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Weatherford Canada Partnership, 2009-06-21, 60CM COMPENSATED SONIC, RAV09-010, COMPLIANCE COAL CORP, UNDEFINED, BRITISH COLUMBIA, CANADA

MAIN LOG 1:240

Depth Scale: 1:240

Gamma Ray 0GR, Gamma Ray 1GR, Caliper 1HD, Caliper 2HD, Bit Size, Density Correction, Density Cutoff, Neutron Porosity, Density Porosity, Density Density, Density Density Cutoff, Density Density Correction, Density Porosity, Neutron Density

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-011
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Ground Level	metres
Elevation Ground Level	metres
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
Permanent Datum	Ground Level
Date	11-Jun-2009
Run Number	ONE
Depth Driller	110.00
Depth Logger	110.00
Bottom Log Interval	110.00
Top Log Interval	0.00
Casing Driller	101.00
Casing Logger	101.00
Bit Size	140
Drilling Fluid Type	WATER
Drilling Fluid Density	
Drilling Fluid Viscosity	
Drilling Fluid PH	
Drilling Fluid Fluid Loss	
Drilling Fluid Resistivity	
Drilling Fluid Sample Source	
Drilling Fluid Resistivity	
Drilling Fluid Sample Source	
Drilling Fluid Resistivity	
Drilling Fluid Sample Source	
Max Recorded Temp	
Equipment Number	1001
Location	
Recorded By	
Witnessed By	

COMPLIANCE COAL CORP
RAV09-011
UNDEFINED
BRITISH COLUMBIA
CANADA

Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing
Permanent Datum: Ground Level
Elevation Kelly Bushing: metres
Elevation Ground Level: metres
Elevation Ground Level: metres

Date: 11-Jun-2009
Run Number: ONE
Depth Driller: 110.00
Depth Logger: 110.00
Bottom Log Interval: 110.00
Top Log Interval: 0.00
Casing Driller: 101.00
Casing Logger: 101.00
Bit Size: 140
Drilling Fluid Type: WATER
Drilling Fluid Density:
Drilling Fluid Viscosity:
Drilling Fluid PH:
Drilling Fluid Fluid Loss:
Drilling Fluid Resistivity:
Drilling Fluid Sample Source:
Drilling Fluid Resistivity:
Drilling Fluid Sample Source:
Drilling Fluid Resistivity:
Drilling Fluid Sample Source:
Max Recorded Temp:
Equipment Number: 1001
Location:
Recorded By:
Witnessed By:

COAL LITHOLOGY
GAMMA RAY, CALIPER
COAL DETAIL ZONES

BOREHOLE RECORD			Last Edited: 20-JUN-2009 21:52
Bit Size (millimetres)	Depth From (metres)	Depth To (metres)	
127.000	0.00	18.30	
101.600	18.30	110.00	

CASING RECORD				
Type	Size (millimetres)	Depth From (metres)	Shoe Depth (metres)	Weight (kilograms/metre)
	101.600	0.00	18.30	14.14

REMARKS

COORDINATES
NORTH(m):
5844860

EASTING
(m):
95700

TOOL RUNS:
WELLDOK VP

BORE WALL COND : GOOD
BORE HOLE COND : GOOD

WELL NOT FLOWING

WELL WAS LOGGED STAND ALONE

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MAIN LOG 1:240

Depth Based Data - Merged File — Plotted on 27-JUN-2009 19:44
Filename: C:\logs\Cores\09RAV09-011\01_MAIN.mgp — Merged on 26-JUN-2009 21:58
System Versions: Logged with: 8.06.02.2 — Merged with: 8.06.02.2 — Plotted with: 8.06.02.2

Tracks: Bit Size millimetres 100–140 | Gamma Ray from DDS API 0–100 (Int every 0.1 Lin m) | Caliper from DDS millimetres 100–140 | Depth in Metres 0–110 (Display Scale 1:240) | Compensated Density grams/cc 1.50–2.50 | Density Correction grams/cc (0.45) 0.20 (-0.05)

Gamma Ray from DDS
Caliper from DDS

REPEAT SECTION

Depth Based Data - Merged File — Plotted on 27-JUN-2009 19:44
Filename: C:\logs\Cores\09RAV09-011\02_REPEAT.mgp — Merged on 26-JUN-2009 21:40
System Versions: Logged with: 8.06.02.2 — Merged with: 8.06.02.2 — Plotted with: 8.06.02.2

Tracks: Bit Size millimetres 100–140 | Gamma Ray from DDS API 0–100 (Int every 0.1 Lin m) | Caliper from DDS millimetres 100–140 | Depth in Metres 90–120 (Display Scale 1:240) | Compensated Density grams/cc 1.50–2.50 | Density Correction grams/cc (0.45) 0.20 (-0.05)

COAL DETAIL 1:20

Depth Based Data - Merged File — Plotted on 27-JUN-2009 19:44
Filename: C:\logs\Cores\09RAV09-011\01_MAIN.mgp — Merged on 26-JUN-2009 21:58
System Versions: Merged with: 8.06.02.2 — Plotted with: 8.06.02.2

Tracks: Bit Size millimetres 100–140 | Gamma Ray from DDS API 0–100 (Int every 0.1 Lin m) | Caliper from DDS millimetres 100–140 | Depth in Metres 29–39 (Display Scale 1:20) | Density Short Spaced grams/cc 1.50–2.50

Gamma Ray from DDS
Caliper from DDS
Density Short Spaced
Bit Size

Depth Based Data - Merged File — Plotted on 27-JUN-2009 19:44
Filename: C:\logs\Cores\09RAV09-011\01_MAIN.mgp — Merged on 26-JUN-2009 21:58
System Versions: Merged with: 8.06.02.2 — Plotted with: 8.06.02.2

Tracks: Bit Size millimetres 100–140 | Gamma Ray from DDS API 0–100 (Int every 0.1 Lin m) | Caliper from DDS millimetres 100–140 | Depth in Metres 35–39 (Display Scale 1:20) | Density Short Spaced grams/cc 1.50–2.50

COAL DETAIL 1:20

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-011
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
Elevation Kelly Bushing	metres
Elevation Ground Level	metres
Elevation Ground Level	metres
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
Permanent Datum	Ground Level
Date	11-Jun-2009
Run Number	ONE
Depth Driller	110.00
Depth Logger	110.00
Bottom Log Interval	110.00
Top Log Interval	0.00
Casing Driller	101.00
Casing Logger	101.00
Bit Size	140
Drilling Fluid Type	WATER
Drilling Fluid Density	
Drilling Fluid Viscosity	
Drilling Fluid PH	
Drilling Fluid Fluid Loss	
Drilling Fluid Resistivity	
Drilling Fluid Sample Source	
Drilling Fluid Resistivity	
Drilling Fluid Sample Source	
Drilling Fluid Resistivity	
Drilling Fluid Sample Source	
Max Recorded Temp	
Equipment Number	1001
Location	
Recorded By	
Witnessed By	

COAL LITHOLOGY
GAMMA RAY, CALIPER
COAL DETAIL ZONES

Weatherford

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-011		
FIELD	UNDEFINED		
COUNTRY/STATE	BRITISH COLUMBIA		
	CANADA		
Latitude	Longitude	Township	Range

DUAL FOCUSSED ELECTRIC
GAMMA RAY, CALIPER

Operator	Date	Depth Driller	Depth Logger	Bottom Log Interval	Top Log 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	Max Recorded Temp	Equipment / Base	Recorded By	Witnessed By
1.00	BEC	TWP	RGE	Other Services																			
				DENSITY																			
25-JUN-2009	115.50	115.07	115.07	115.50	18.30	18.30	18.30	19.30	WATER											1.5506	0.0JULTWIGHAM	RGR	
	metres	metres	metres	metres	metres	metres	metres	metres												1.5506			544

Elevations Clearw GL Elevation Ink metres
Log Measured From GROUND LEVEL above Permanent Datum

Elevations	
Perm. Datum	GL
Log Measured From	GL
DF	
KB	
GL	

VERTICALITY

Clear Services

BOREHOLE RECORD

Last Edited: 26-JUN-2009 21:52

Bit Size millimetres	Depth From metres	Depth To metres
107.000	0.00	18.30
101.300	18.30	115.50

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	107.000	0.00	18.30	14.14

REMARKS

COORDINATES
NORTHING:
5484660

EASTING:
363700

TOOL RUNS:
RRS.D06.VRT

BORE WALL COND : GOOD
BORE HOLE COND : GOOD

WELL NOT FLOWING

WELL WAS LOGGED STAND ALONE

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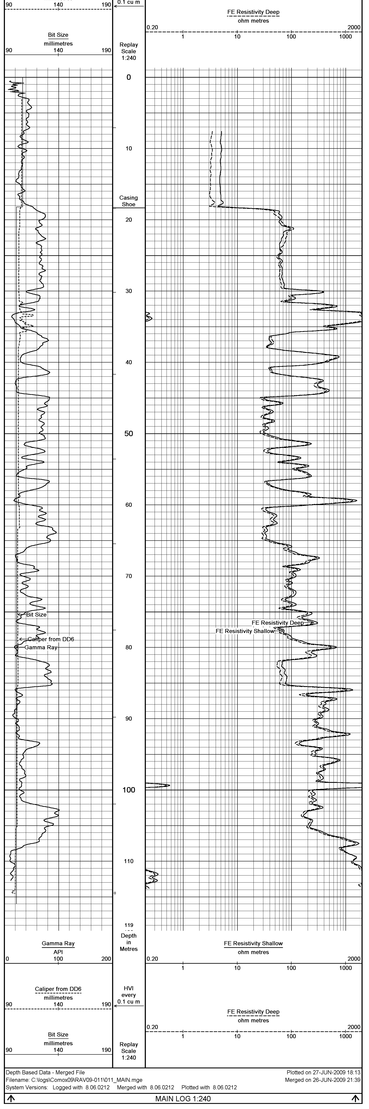
MAIN LOG 1:240

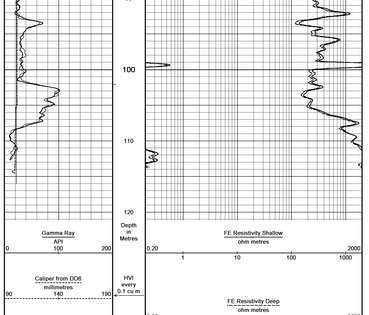
Depth Based Data - Merged File — Plotted on 27-JUN-2009 18:13
Filename: C:\logs\Comos09\RAV09-011\011_MAIN.mge — Merged on 26-JUN-2009 21:39
System Versions: Logged with 8.06.0212 — Merged with 8.06.0212 — Plotted with 8.06.0212



Depth Based Data - Merged File — Plotted on 27-JUN-2009 18:13
Filename: C:\logs\Comos09\RAV09-011\011_MAIN.mge — Merged on 26-JUN-2009 21:39
System Versions: Logged with 8.06.0212 — Merged with 8.06.0212 — Plotted with 8.06.0212

REPEAT SECTION

Depth Based Data - Merged File — Plotted on 27-JUN-2009 18:13
Filename: C:\logs\Comos09\RAV09-011\011_REPEAT.mge — Merged on 26-JUN-2009 21:40
Filename: C:\logs\Comos09\RAV09-011\011_MAIN.mge — Merged on 26-JUN-2009 21:39
System Versions: Logged with 8.06.0212 — Merged with 8.06.0212 — Plotted with 8.06.0212



Depth Based Data - Merged File — Plotted on 27-JUN-2009 18:13
Filename: C:\logs\Comos09\RAV09-011\011_REPEAT.mge — Merged on 26-JUN-2009 21:40
Filename: C:\logs\Comos09\RAV09-011\011_MAIN.mge — Merged on 26-JUN-2009 21:39
System Versions: Logged with 8.06.0212 — Merged with 8.06.0212 — Plotted with 8.06.0212

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-011
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	115.00	metres
Elevation Drill Floor	metres	Depth Driller	115.50	metres
Elevation Ground Level	metres	Depth Logger	115.07	metres

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DUAL FOCUSSED ELECTRIC
GAMMA RAY, CALIPER

COMPOSITE COAL LOG

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-011
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
LAT	
LONG	
LSD	SEC	TWP	RGE
Licence Number	
Permanent Datum: GL Elevation MA metres	
Log Measured From: GROUND LEVEL above Permanent Datum	
Drilling Measured From	

Run Number	1		
Date	25-JUN-2009		
Depth Driller	115.50	metres	
Depth Logger	115.07	metres	
First Reading	115.00	metres	
Last Reading	0.00	metres	
Casing Driller	18.30	metres	
Casing Logger	18.30	metres	
Bit Size	107.000	millimetres	
Bit Type			
Density / Viscosity			
PH / Fluid Loss			
Source of Sample	WATER		
Rm @ Measured Temp			
Rmf @ Measured Temp			
Rmc @ Measured Temp			
Source Rmf / Rmc			
Rm @ BHT			
Max Recorded Temp			
Equipment Base			
Equipment Name			
Equipment #			
Witnessed By	13ELAWSON		
	O CULLINGHAU	RCR	

Other Services

Elevations: KB metres, DF metres, GL metres

BOREHOLE RECORD

Last Edited: 26-JUN-2009 21:52

Bit Size millimetres	Depth From metres	Depth To metres
107.000	0.00	18.30
101.300	18.30	115.50

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	107.000	0.00	18.30	14.14

REMARKS

COORDINATES:
NORTHING:
5484960

EASTING:
363700

TOOL RUNS:
RR5,DDL,VRT

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

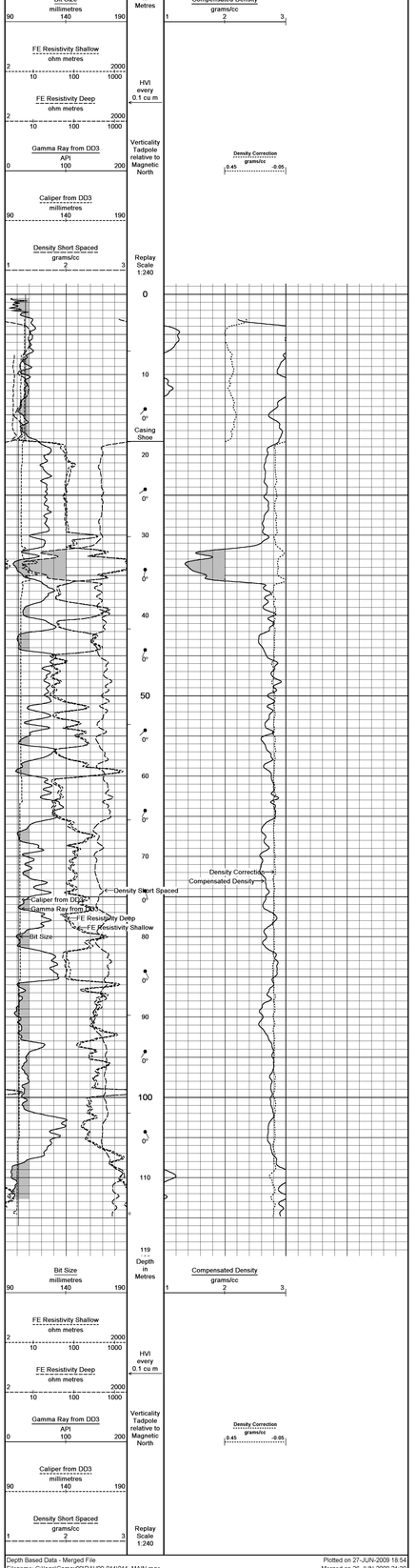
WELL NOT FLOWING

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 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 27-JUN-2009 18:54
Filename: C:\logs\Compal09RAV09-011\011_MAIN.mge — Merged on 26-JUN-2009 21:39
System Versions: Logged with 8.06.0212 — Merged with 8.06.0212 — Plotted with 8.06.0212



Depth Based Data - Merged File — Plotted on 27-JUN-2009 18:54
Filename: C:\logs\Compal09RAV09-011\011_MAIN.mge — Merged on 26-JUN-2009 21:39
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	RAV09-011
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

Elevation Kelly Bushing	metres	First Reading	115.00	metres
Elevation Drill Floor	metres	Depth Driller	115.50	metres
Elevation Ground Level	metres	Depth Logger	115.07	metres

Weatherford

COMPOSITE COAL LOG

MINI PLOT

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-011
FIELD	UNDEFINED
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
UWI	
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	
Elevations: KB / DF / GL	metres

Date	25-JUN-2009				
Run Number	1				
Depth Driller	115.50	metres			
Depth Logger	115.07	metres			
First Reading	115.00	metres			
Last Reading	0.00	metres			
Casing Driller	18.00	metres			
Casing Logger	18.30	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: 26-JUN-2009 21:52

Bit Size millimetres	Depth From metres	Depth To metres
107.000	0.00	18.30
101.300	18.30	115.50

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight Kg/metre
	107.000	0.00	18.30	14.14

REMARKS

COORDINATES:
NORTHING:
5484660

EASTING:
363700

TOOL RUNS:
RR5,DD6,VRT

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

WELL NOT FLOWING

WELL WAS LOGGED STAND ALONE

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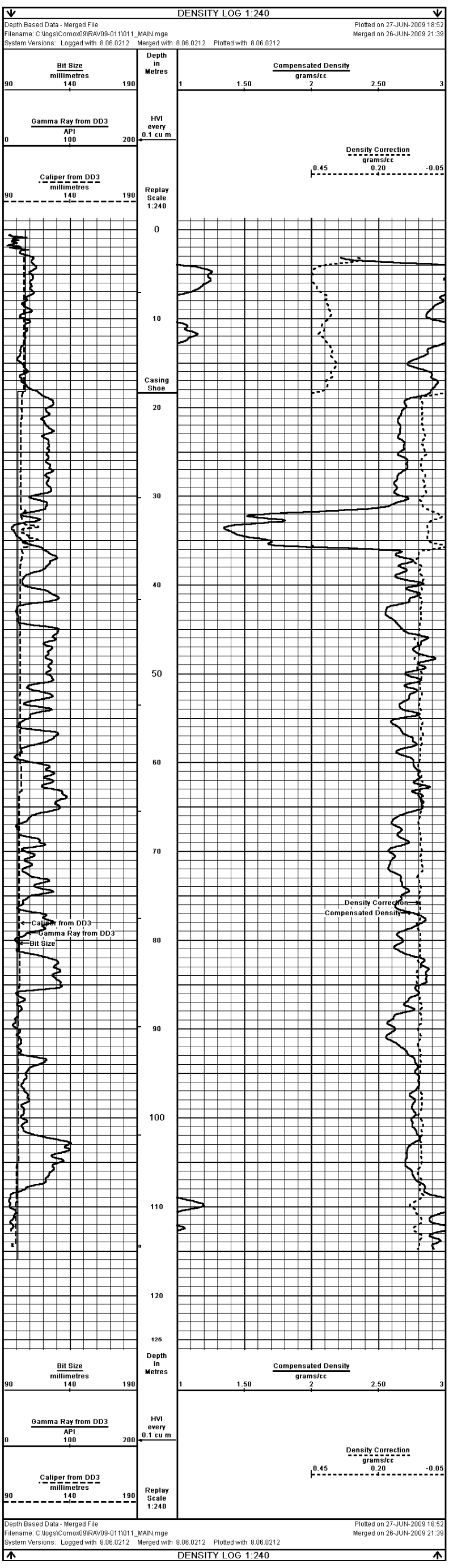
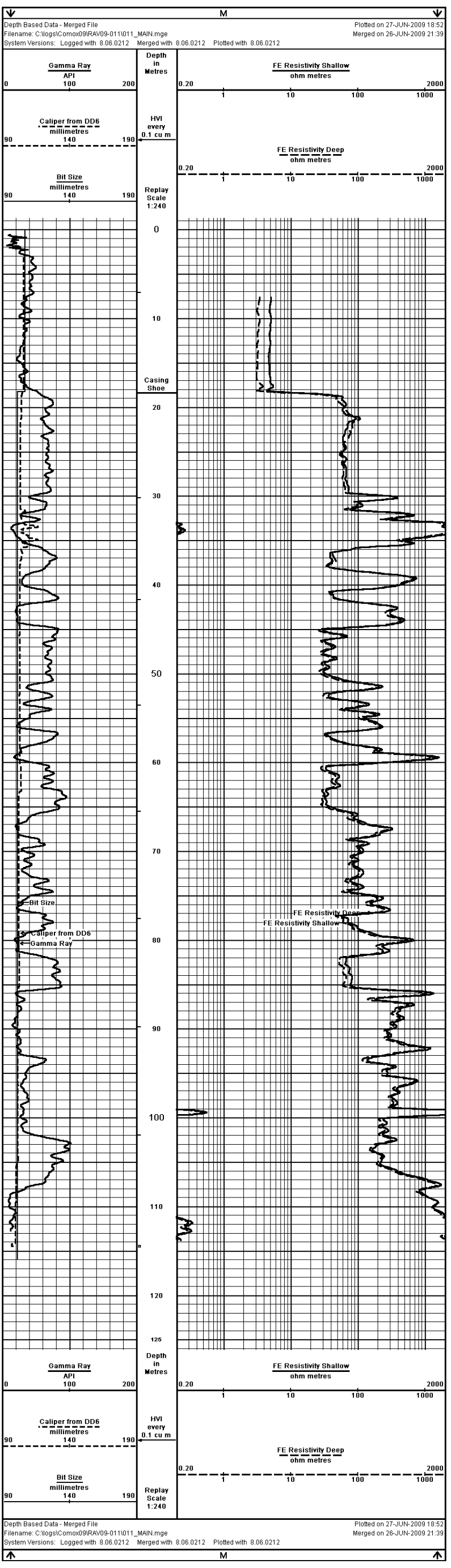




COMPANY	COMPLIANCE COAL CORP			
WELL	RAV09-011			
FIELD	UNDEFINED			
PROVINCE/COUNTY	BRITISH COLUMBIA			
COUNTRY/STATE	CANADA			
Elevation Kelly Bushing	metres	First Reading	115.00	metres
Elevation Drill Floor	metres	Depth Driller	115.50	metres
Elevation Ground Level	metres	Depth Logger	115.07	metres

Weatherford®

MINI PLOT

VERTICALITY ANALYSIS

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-01
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA CANADA
DATE	26-JUN-2009
PROJECT	01196-238-M
DIRECTIONS	SE
DIP	90
TRAP	0.00
DENSITY	1.00
RESISTIVITY	10.00
Formation Temperature	10.00
Formation Pressure	10.00
Fluid Level	10.00
Fluid Density	10.00
Surface Temperature	10.00
Mud Resistivity	10.00
Mud Density	10.00
Mud Viscosity	10.00
Mud Fluid Loss	10.00
Mud Type	Water
Bit Size	10.00
Casing Size	10.00
Casing Depth	10.00
Hole Deviation	10.00
Bottom Hole Temperature	10.00
Drilling Contractor	UNDEFINED
Rig Type	UNDEFINED
Equipment Description	UNDEFINED
Recorded By	UNDEFINED
Witnessed By	UNDEFINED

BOREHOLE RECORD

Last Edited: 26-JUN-2009 21:53

Bit Size (millimetres)	Depth From (metres)	Depth To (metres)
157.00	0.00	18.30
101.300	18.30	115.50

CASING RECORD

Type	Size (millimetres)	Depth From (metres)	Shoe Depth (metres)	Weight (pounds)
	157.000	0.00	18.30	14.14

REMARKS

COORDINATES
NORTHING
5494880

EASTING
85370

TOOL RUNS
MRS,DDB,VRT

BORE WALL COND : GOOD
BORE HOLE COND : GOOD

WELL NOT FLOWING

WELL WAS LOGGED STAND ALONE

Verticality Analysis Interpretation Notes

26-JUN-2009 22:05

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 1:40000(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 logged 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 normally characterised by erratic or sudden changes in magnetics. So the analysis will generally begin at the end of the casing and all borehole position 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.
ABAN. 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\Comsol\RAV409-01196-238-M.dta

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

Final Depth : 115.50, 0.08 North, 0.09 East of Origin

Date Processed 26-JUN-2009
Date Logged : 25-JUN-2009

DEPTHS		BOREHOLE		ABAN. CO-ORDS		POLAR	
Log	True	Tilt	Az	North	East	Sig	Radius
8.00	8.00	0.3	248.6	-0.00	-0.01	233	0.01
9.00	9.00	0.3	248.6	-0.00	-0.01	233	0.01
10.00	10.00	0.3	270.4	-0.02	-0.02	234	0.03
11.00	11.00	0.4	170.2	-0.02	-0.03	231	0.03
12.00	12.00	0.4	170.2	-0.02	-0.03	231	0.03
13.00	13.00	0.4	171.1	-0.03	-0.04	230	0.06
14.00	14.00	0.8	121.1	-0.04	-0.04	226	0.06
15.00	15.00	0.8	241.7	-0.05	-0.04	227	0.07
16.00	16.00	0.3	168.6	-0.05	-0.05	223	0.07
17.00	17.00	0.3	168.6	-0.05	-0.05	223	0.07
18.00	18.00	0.6	231.4	-0.07	-0.07	230	0.09
19.00	19.00	0.3	255.9	-0.07	-0.06	223	0.09
20.00	20.00	0.3	255.9	-0.07	-0.06	223	0.09
21.00	21.00	0.4	239.4	-0.08	-0.07	225	0.10
22.00	22.00	0.3	270.2	-0.08	-0.08	225	0.11
23.00	23.00	0.3	270.2	-0.08	-0.08	225	0.11
24.00	24.00	0.8	232.9	-0.08	-0.09	225	0.12
25.00	25.00	0.8	253.3	-0.09	-0.09	225	0.13
26.00	26.00	0.3	227.1	-0.10	-0.10	225	0.14
27.00	27.00	0.3	227.1	-0.10	-0.10	225	0.14
28.00	28.00	0.3	227.1	-0.11	-0.11	224	0.15
29.00	29.00	0.8	242.5	-0.12	-0.11	225	0.16
30.00	30.00	0.8	248.1	-0.13	-0.12	225	0.18
31.00	31.00	0.8	248.1	-0.13	-0.12	225	0.18
32.00	32.00	0.4	208.9	-0.15	-0.11	222	0.19
33.00	33.00	0.8	213.9	-0.16	-0.14	222	0.21
34.00	34.00	0.8	213.9	-0.16	-0.14	222	0.21
35.00	35.00	0.8	219.4	-0.17	-0.15	222	0.22
36.00	36.00	0.8	244.9	-0.18	-0.15	220	0.24
37.00	37.00	0.8	244.9	-0.18	-0.15	220	0.24
38.00	38.00	0.3	158.4	-0.19	-0.16	220	0.25
39.00	39.00	0.8	182.2	-0.20	-0.17	219	0.26
40.00	40.00	0.8	224.7	-0.21	-0.18	219	0.27
41.00	41.00	0.4	217.7	-0.22	-0.17	218	0.28
42.00	42.00	0.4	217.7	-0.22	-0.17	218	0.28
43.00	43.00	0.3	182.6	-0.23	-0.18	218	0.29
44.00	44.00	0.8	238.9	-0.24	-0.19	218	0.30
45.00	45.00	0.8	238.9	-0.24	-0.19	218	0.30
46.00	46.00	0.4	221.1	-0.26	-0.20	217	0.32
47.00	47.00	0.3	244.1	-0.26	-0.20	218	0.33
48.00	48.00	0.8	236.2	-0.27	-0.22	216	0.35
49.00	49.00	0.8	236.2	-0.27	-0.22	216	0.35
50.00	50.00	0.4	229.1	-0.28	-0.23	219	0.36
51.00	51.00	0.8	211.3	-0.28	-0.24	220	0.37
52.00	52.00	0.8	211.3	-0.28	-0.24	220	0.37
53.00	53.00	0.3	262.5	-0.29	-0.26	221	0.38
54.00	54.00	0.8	211.0	-0.29	-0.27	222	0.39
55.00	55.00	0.3	245.8	-0.29	-0.27	225	0.40
56.00	56.00	0.3	245.8	-0.29	-0.27	225	0.40
57.00	57.00	0.3	297.4	-0.30	-0.28	224	0.41
58.00	58.00	0.3	234.0	-0.30	-0.29	224	0.42
59.00	59.00	0.3	234.0	-0.30	-0.29	224	0.42
60.00	60.00	0.4	214.9	-0.32	-0.29	223	0.43
61.00	61.00	0.8	198.7	-0.32	-0.30	223	0.44
62.00	62.00	0.8	198.7	-0.32	-0.30	223	0.44
63.00	63.00	0.4	201.3	-0.34	-0.31	223	0.46
64.00	64.00	0.8	176.5	-0.35	-0.31	222	0.46
65.00	65.00	0.4	225.5	-0.35	-0.31	221	0.47
66.00	66.00	0.4	224.1	-0.36	-0.31	221	0.48
67.00	67.00	0.8	224.1	-0.36	-0.31	221	0.48
68.00	68.00	0.3	178.7	-0.36	-0.31	220	0.48
69.00	69.00	0.3	286.3	-0.39	-0.31	219	0.50
70.00	70.00	0.8	183.6	-0.40	-0.32	218	0.51
71.00	71.00	0.8	183.6	-0.40	-0.32	218	0.51
72.00	72.00	0.8	201.2	-0.41	-0.32	218	0.52
73.00	73.00	0.3	157.6	-0.42	-0.32	217	0.53
74.00	74.00	0.3	157.6	-0.42	-0.32	217	0.53
75.00	75.00	0.3	182.5	-0.43	-0.32	216	0.53
76.00	76.00	0.8	183.6	-0.44	-0.32	216	0.54
77.00	77.00	0.8	209.3	-0.45	-0.32	215	0.54
78.00	78.00	0.3	178.2	-0.46	-0.32	215	0.55
79.00	79.00	0.3	178.2	-0.46	-0.31	214	0.56
80.00	80.00	0.3	154.4	-0.47	-0.31	214	0.56
81.00	81.00	0.3	154.4	-0.47	-0.31	214	0.56
82.00	82.00	0.3	172.4	-0.52	-0.31	211	0.60
83.00	83.00	0.3	174.2	-0.49	-0.31	213	0.58
84.00	84.00	0.3	174.2	-0.49	-0.31	213	0.58
85.00	85.00	0.3	172.4	-0.50	-0.31	212	0.59
86.00	86.00	0.4	217.4	-0.51	-0.31	212	0.59
87.00	87.00	0.4	217.4	-0.51	-0.31	212	0.59
88.00	88.00	0.3	172.4	-0.52	-0.31	211	0.60
89.00	89.00	0.3	168.6	-0.52	-0.31	211	0.61
90.00	90.00	0.4	173.3	-0.53	-0.31	210	0.61
91.00	91.00	0.3	151.7	-0.53	-0.31	210	0.61
92.00	92.00	0.3	151.7	-0.53	-0.31	210	0.61
93.00	93.00	0.8	183.6	-0.55	-0.31	210	0.62
94.00	94.00	0.3	185.5	-0.55	-0.30	208	0.63
95.00	95.00	0.3	185.5	-0.55	-0.30	208	0.63
96.00	96.00	0.3	286.4	-0.57	-0.29	208	0.64
97.00	97.00	0.8	168.6	-0.57	-0.29	207	0.64
98.00	98.00	0.8	168.6	-0.57	-0.29	207	0.64
99.00	99.00	0.8	165.4	-0.58	-0.29	206	0.65
100.00	100.00	0.4	163.5	-0.59	-0.29	206	0.66
101.00	101.00	0.4	211.2	-0.60	-0.29	206	0.67
102.00	102.00	0.8	163.5	-0.60	-0.29	205	0.67
103.00	103.00	0.3	168.1	-0.62	-0.28	204	0.69
104.00	104.00	0.3	168.2	-0.62	-0.28	205	0.68
105.00	105.00	0.3	170.1	-0.63	-0.28	204	0.69
106.00	106.00	0.3	170.1	-0.63	-0.28	204	0.69
107.00	107.00	0.3	168.3	-0.64	-0.28	204	0.70
108.00	108.00	0.8	196.2	-0.65	-0.29	204	0.71
109.00	109.00	0.3	214.9	-0.66	-0.29	204	0.72
110.00	110.00	0.3	214.9	-0.66	-0.29	204	0.72
111.00	111.00	0.4	190.4	-0.67	-0.30	204	0.74
112.00	112.00	0.3	238.7	-0.68	-0.31	204	0.75
113.00	113.00	0.3	238.7	-0.68	-0.31	204	0.75
114.00	114.00	0.8	238.7	-0.69	-0.31	204	0.76

Cross Section

All Figures are Log Depths in metres

Target Origin Depth 7.10
Last Plotted Depth 115.50
Cross Section Displayed in multiples of 10
Final Depth Marker at 50
Last Depth Marker at 110

Plot With Respect to True North
Scale 1:20
Declination 18.1 deg East

Final Borehole Position

The last plotted depth is at
0.69 metres South
0.17 metres West
ie: 0.76 metres from the origin
204 deg from True North

Vertical Sections

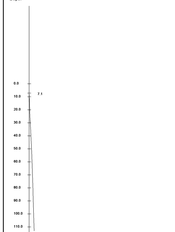
North-South Section

East-West Section

(True Depth vs Displacement)

Vertical Scale 1:1000
Horizontal Scale 1:50

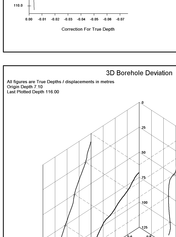
Markers annotated as above



Depth Correction Analysis

Vertical Scale 1:1000
Horizontal Scale 1:1

Log
Depth



Correction For True Depth

Depths Log	Depths True	Depths Log	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	92.00	92.00
26.00	26.00	93.00	93.00
27.00	27.00	94.00	94.00
28.00	28.00	95.00	95.00
29.00	29.00	96.00	96.00
30.00	30.00	97.00	97.00
31.00	31.00	98.00	98.00
32.00	32.00	99.00	99.00
33.00	33.00	100.00	100.00
34.00	34.00	101.00	101.00
35.00	35.00	102.00	102.00
36.00	36.00	103.00	103.00
37.00	37.00	104.00	104.00
38.00	38.00	105.00	105.00
39.00	39.00	106.00	106.00
40.00	40.00	107.00	107.00
41.00	41.00	108.00	108.00
42.00	42.00	109.00	109.00
43.00	43.00	110.00	110.00
44.00	44.00	111.00	111.00
45.00	45.00	112.00	112.00
46.00	46.00	113.00	113.00
47.00	47.00	114.00	114.00
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 115.00

Plot With Respect to True North
Declination 18.1 deg East

Final Borehole Position

The last plotted depth is at
1.69 metres South
0.17 metres West
ie: 0.76 metres from the origin
204 deg from True North

COMPANY	COMPLIANCE COAL CORP
WELL	RAV09-01
FIELD	UNDEFINED
PROVINCE/COUNTRY	BRITISH COLUMBIA CANADA

Elevation Kelly Bushing	metres	First Reading	110.00 metres
Elevation Drill Floor	metres	Depth Driller	115.50 metres
Elevation Ground Level	metres	Depth Logger	115.07 metres

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VERTICALITY ANALYSIS

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-012		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	323.00 metres
Elevation Drill Floor	metres	Depth Driller	324.16 metres
Elevation Ground Level	metres	Depth Logger	323.00 metres

COMPOSITE COAL LOG

BOREHOLE RECORD

Last Edited: 01-JUL-2009 21:25

Bit Size millimetres	Depth From metres	Depth To metres
152.000	0.00	159.00
140.000	159.00	323.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/m
Casing	193.000	0.00	28.24	25.30

REMARKS

COORDINATES
NAD83 NAD27
UNSTRM

DRITRIG
SRSMD

TOOL RUNS:
MWLGDS,NGC,VRT,MS2

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 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\Cores\09RAV09-012\09RAV09-012 MAN.mga
System Versions Logged with: 8.06.0212 Merged with: 8.06.0212 Plotted with: 8.06.0212

Plotted on 01-JUL-2009 21:40
Merged on 01-JUL-2009 11:40

Bit Size millimetres 90–140
FE Resistivity Shallow ohm metres 2–2000
FE Resistivity Deep ohm metres 2–2000
Gamma Ray from DD3 API 0–200
Caliper from DD3 millimetres 90–190
Density Short Spaced gram/cc 1.95–3
Depth in Metres
Replay Scale 1:240
Compensated Density gram/cc 2–3
Sandstone Neutron Por. percent 50–0
Density Correction gram/cc -0.25–0.500
60 cm Compen. Sonic 61/64 microseconds/metre 300–100
Vertically Tadpole relative to Magnetic North
Casing Shoe
60 cm Compen. Sonic 61/64
Sandstone Neutron Por.
Density Correction
Compensated Density
Density Short Spaced
Caliper from DD3
FE Resistivity Shallow
FE Resistivity Deep
Gamma Ray from DD3
Bit Size

Depth Based Data - Merged File
Filename: C:\logs\Cores\09RAV09-012\09RAV09-012 MAN.mga
System Versions Logged with: 8.06.0212 Merged with: 8.06.0212 Plotted with: 8.06.0212

Plotted on 01-JUL-2009 21:40
Merged on 01-JUL-2009 11:40

COMPOSITE LOG 1:240

COMPANY COMPLIANCE COAL CORP
WELL RAV09-012
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA
Elevation Kelly Bushing metres First Reading 323.00 metres
Elevation Drill Floor metres Depth Driller 324.16 metres
Elevation Ground Level metres Depth Logger 323.00 metres

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COMPOSITE COAL LOG

100/16-15-084-14W6/00 Hunter Hz Ft St Jn Ft St Jn Ft St Jn

Formation Tops

Formation	Depth (m)	Elevation (m)
Bluesky	1000.0	-1000.0
Gething	1010.0	-1010.0
Gething Ss	1020.0	-1020.0
Gething Ss	1030.0	-1030.0
Gething Ss	1040.0	-1040.0
Gething Ss	1050.0	-1050.0
Gething Ss

COMPANY	COMPLIANCE COAL CORP		
WELL	RAVEN 012		
FIELD	UNDEFINED		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Logged On Date	15-Jul-2009	Total Recording Time	00:00 hrs
Logged On Time	00:00 hrs	Total Logging Time	00:00 hrs
Weather	Clear	Temperature	0 degrees

DUAL FOCUSED ELECTRIC GAMMA RAY - CALIPER

Weatherford

COMPANY	COMPLIANCE COAL CORP		
WELL	RAVEN 012		
FIELD	UNDEFINED		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Logged On Date	15-Jul-2009	Total Recording Time	00:00 hrs
Logged On Time	00:00 hrs	Total Logging Time	00:00 hrs
Weather	Clear	Temperature	0 degrees

DUAL FOCUSED ELECTRIC GAMMA RAY - CALIPER

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BOREHOLE RECORD

Bit Size	Date Run	Logged Date
152.400	15-Jul-2009	15-Jul-2009

CASING RECORD

Type	Size	Depth From	Depth To	Weight
Casing	152.400	0.000	18.000	0.000

REMARKS

CLEANED RIGS
Hard Check
DATA
SAFETY
TIED ON
PRE-LOGGING
PRELOADING OFF GRID

HOW DOES LONG COAL GO
WHAT IS THE PLAN

WELL NOT FLOWING

DO YOU HAVE ANYTHING ELSE

All interpretations are opinions based on inferences from other measurements and are correct, and we do not guarantee the accuracy or completeness of any interpretation or that any action taken by you based on such interpretations will be successful or profitable. We make no warranties, express or implied, of merchantability or fitness for any purpose or any other warranty, except that our interpretations represent our best judgment in providing such opinions. Gamma Ray, Density, Neutron, Induction, Sonic, Caliper, Spectral Gamma Ray, Resistivity, Temperature, Flow, Pressure, Spectral Density, Dipmeter, Borehole Televiewer, Cement Bond, Perforation, Formation Tester, Casing Inspection, Production Logging, Fluid Sampling, Wireline Conveyed Tools, Coring, Wireline Conveyed Services, Slickline, Wireline Services, Pipe Recovery, Pipe Cutting, Fishing, Wireline Services, Pipe Conveyed Services, Drilling Services, Completion Services, Production Services, Consulting Services, Data Processing, Data Management, Data Storage, Data Transmission, Data Reproduction, Data Interpretation, Data Analysis, Data Integration, Data Quality Control, Data Quality Assurance, Data Security, Data Integrity, Data Ownership, Data Rights, Data Licensing, Data Sharing, Data Exchange, Data Interoperability, Data Standardization, Data Normalization, Data Validation, Data Verification, Data Authentication, Data Encryption, Data Decryption, Data Compression, Data Decompression, Data Archiving, Data Retrieval, Data Backup, Data Recovery, Data Disaster Recovery, Data Business Continuity

| | | |

Halliburton

Halliburton Energy Services, Inc.
Duncan, Oklahoma

Customer: Chesapeake Operating, Inc.
Well: Hoover 1-29-17N-8W
Job Type: Cement Production Casing
Date: 03/01/2011
Job Number: 1000-0000-0000

Cementing Job Summary

Stage	Type	Volume	Density	Yield	Water Requirement
1	Lead	150 sks	11.4 lb/gal	2.97 ft³/sk	18.0 gal/sk
	Tail	150 sks	14.8 lb/gal	1.33 ft³/sk	6.3 gal/sk

Remarks

Customer:
Well:
Job Type:
Date:
Job Number:
Job Begin Date: 03/01/2011
Job Begin Time: 00:00
Job End Date: 03/01/2011
Job End Time: 00:00
Job Type: Cement Production Casing

Job Log

Time	Rate	Volume	Pressure	Description
00:00				Job Begin Date: 03/01/2011 Job Begin Time: 00:00 Job End Date: 03/01/2011 Job End Time: 00:00 Job Type: Cement Production Casing

Job Begin Date: 03/01/2011 Job Begin Time: 00:00 Job End Date: 03/01/2011 Job End Time: 00:00 Job Type: Cement Production Casing

SIGN COMPENSATED SONIC

COMPANY COMPLIANCE COAL CORP
WELL INVER 6-2
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

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BOREHOLE RECORD

Bit Size	Drilled From	Drilled To
140.00	0.00	1000.00
140.00	1000.00	1010.00

CASING RECORD

Type	Size	Weight	Grade	Drlled Depth	Shoe Depth	Hole Size
Surface	114.30	0.00	Unknown	0.00	1000.00	140.00

REMARKS

FLOWING/STATIC
DRY/WET
SALINITY
LOGGER
LOCATION
Comments
Tool Type: Sonic
Tool Serial Number: 0000
Serial: 0000 - 0000 - 0000
Serial: 0000 - 0000 - 0000
WELL WITH FLOWING
Comments: SIGN COMPENSATED ALTIME

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MAIN LOG 1:240

Total Footage Logged: 1000.00 m
Depth Range: 0.00 m - 1000.00 m
Sensor Version: Logged with 3.06.01C1 Software: 3.06.01C1

Pulse Rate: 1 Pulse/m
Pulse Length: 0.0 m
Pulse Amplitude: 0.0 V
Sensor Offset: 0.00 m
Sensor Type: Sonic
Sensor Serial: 0000
Sensor Length: 0.00 m
Sensor Weight: 0.00 kg
Sensor Diameter: 0.00 mm
Sensor Pressure Rating: 0.00 kPa
Sensor Temperature Rating: 0.00 °C
Sensor Material: Unknown
Sensor Comments: Sonic

Date	Time	Type	Depth	Comment
2009-07-15	10:00	Spud	0.00	Spud
2009-07-15	12:00	Drill	24.00	Drilled ahead
2009-07-15	14:00	Drill	48.00	Drilled ahead
2009-07-15	16:00	Drill	72.00	Drilled ahead
2009-07-15	18:00	Drill	96.00	Drilled ahead
2009-07-15	20:00	Drill	120.00	Drilled ahead
2009-07-15	22:00	Drill	144.00	Drilled ahead
2009-07-16	00:00	Drill	168.00	Drilled ahead
2009-07-16	02:00	Drill	192.00	Drilled ahead
2009-07-16	04:00	Drill	216.00	Drilled ahead
2009-07-16	06:00	Drill	240.00	Drilled ahead
2009-07-16	08:00	Drill	264.00	Drilled ahead
2009-07-16	10:00	Drill	288.00	Drilled ahead
2009-07-16	12:00	Drill	312.00	Drilled ahead
2009-07-16	14:00	Drill	336.00	Drilled ahead
2009-07-16	16:00	Drill	360.00	Drilled ahead
2009-07-16	18:00	Drill	384.00	Drilled ahead
2009-07-16	20:00	Drill	408.00	Drilled ahead
2009-07-16	22:00	Drill	432.00	Drilled ahead
2009-07-17	00:00	Drill	456.00	Drilled ahead
2009-07-17	02:00	Drill	480.00	Drilled ahead
2009-07-17	04:00	Drill	504.00	Drilled ahead
2009-07-17	06:00	Drill	528.00	Drilled ahead
2009-07-17	08:00	Drill	552.00	Drilled ahead
2009-07-17	10:00	Drill	576.00	Drilled ahead
2009-07-17	12:00	Drill	600.00	Drilled ahead
2009-07-17	14:00	Drill	624.00	Drilled ahead
2009-07-17	16:00	Drill	648.00	Drilled ahead
2009-07-17	18:00	Drill	672.00	Drilled ahead
2009-07-17	20:00	Drill	696.00	Drilled ahead
2009-07-17	22:00	Drill	720.00	Drilled ahead
2009-07-18	00:00	Drill	744.00	Drilled ahead
2009-07-18	02:00	Drill	768.00	Drilled ahead
2009-07-18	04:00	Drill	792.00	Drilled ahead
2009-07-18	06:00	Drill	816.00	Drilled ahead
2009-07-18	08:00	Drill	840.00	Drilled ahead
2009-07-18	10:00	Drill	864.00	Drilled ahead
2009-07-18	12:00	Drill	888.00	Drilled ahead
2009-07-18	14:00	Drill	912.00	Drilled ahead
2009-07-18	16:00	Drill	936.00	Drilled ahead
2009-07-18	18:00	Drill	960.00	Drilled ahead
2009-07-18	20:00	Drill	984.00	Drilled ahead
2009-07-18	22:00	Drill	1008.00	Drilled ahead
2009-07-19	00:00	Drill	1032.00	Drilled ahead
2009-07-19	02:00	Drill	1056.00	Drilled ahead
2009-07-19	04:00	Drill	1080.00	Drilled ahead
2009-07-19	06:00	Drill	1104.00	Drilled ahead
2009-07-19	08:00	Drill	1128.00	Drilled ahead
2009-07-19	10:00	Drill	1152.00	Drilled ahead
2009-07-19	12:00	Drill	1176.00	Drilled ahead
2009-07-19	14:00	Drill	1200.00	Drilled ahead
2009-07-19	16:00	Drill	1224.00	Drilled ahead
2009-07-19	18:00	Drill	1248.00	Drilled ahead
2009-07-19	20:00	Drill	1272.00	Drilled ahead
2009-07-19	22:00	Drill	1296.00	Drilled ahead
2009-07-20	00:00	Drill	1320.00	Drilled ahead
2009-07-20	02:00	Drill	1344.00	Drilled ahead
2009-07-20	04:00	Drill	1368.00	Drilled ahead
2009-07-20	06:00	Drill	1392.00	Drilled ahead
2009-07-20	08:00	Drill	1416.00	Drilled ahead
2009-07-20	10:00	Drill	1440.00	Drilled ahead
2009-07-20	12:00	Drill	1464.00	Drilled ahead
2009-07-20	14:00	Drill	1488.00	Drilled ahead
2009-07-20	16:00	Drill	1512.00	Drilled ahead
2009-07-20	18:00	Drill	1536.00	Drilled ahead
2009-07-20	20:00	Drill	1560.00	Drilled ahead
2009-07-20	22:00	Drill	1584.00	Drilled ahead
2009-07-21	00:00	Drill	1608.00	Drilled ahead
2009-07-21	02:00	Drill	1632.00	Drilled ahead
2009-07-21	04:00	Drill	1656.00	Drilled ahead
2009-07-21	06:00	Drill	1680.00	Drilled ahead
2009-07-21	08:00	Drill	1704.00	Drilled ahead
2009-07-21	10:00	Drill	1728.00	Drilled ahead
2009-07-21	12:00	Drill	1752.00	Drilled ahead
2009-07-21	14:00	Drill	1776.00	Drilled ahead
2009-07-21	16:00	Drill	1800.00	Drilled ahead
2009-07-21	18:00	Drill	1824.00	Drilled ahead
2009-07-21	20:00	Drill	1848.00	Drilled ahead
2009-07-21	22:00	Drill	1872.00	Drilled ahead
2009-07-22	00:00	Drill	1896.00	Drilled ahead
2009-07-22	02:00	Drill	1920.00	Drilled ahead
2009-07-22	04:00	Drill	1944.00	Drilled ahead
2009-07-22	06:00	Drill	1968.00	Drilled ahead
2009-07-22	08:00	Drill	1992.00	Drilled ahead
2009-07-22	10:00	Drill	2016.00	Drilled ahead
2009-07-22	12:00	Drill	2040.00	Drilled ahead
2009-07-22	14:00	Drill	2064.00	Drilled ahead
2009-07-22	16:00	Drill	2088.00	Drilled ahead
2009-07-22	18:00	Drill	2112.00	Drilled ahead
2009-07-22	20:00	Drill	2136.00	Drilled ahead
2009-07-22	22:00	Drill	2160.00	Drilled ahead
2009-07-23	00:00	Drill	2184.00	Drilled ahead
2009-07-23	02:00	Drill	2208.00	Drilled ahead
2009-07-23	04:00	Drill	2232.00	Drilled ahead
2009-07-23	06:00	Drill	2256.00	Drilled ahead
2009-07-23	08:00	Drill	2280.00	Drilled ahead
2009-07-23	10:00	Drill	2304.00	Drilled ahead
2009-07-23	12:00	Drill	2328.00	Drilled ahead
2009-07-23	14:00	Drill	2352.00	Drilled ahead
2009-07-23	16:00	Drill	2376.00	Drilled ahead
2009-07-23	18:00	Drill	2400.00	Drilled ahead
2009-07-23	20:00	Drill	2424.00	Drilled ahead
2009-07-23	22:00	Drill	2448.00	Drilled ahead
2009-07-24	00:00	Drill	2472.00	Drilled ahead
2009-07-24	02:00	Drill	2496.00	Drilled ahead
2009-07-24	04:00	Drill	2520.00	Drilled ahead
2009-07-24	06:00	Drill	2544.00	Drilled ahead
2009-07-24	08:00	Drill	2568.00	Drilled ahead
2009-07-24	10:00	Drill	2592.00	Drilled ahead
2009-07-24	12:00	Drill	2616.00	Drilled ahead
2009-07-24	14:00	Drill	2640.00	Drilled ahead
2009-07-24	16:00	Drill	2664.00	Drilled ahead
2009-07-24	18:00	Drill	2688.00	Drilled ahead
2009-07-24	20:00	Drill	2712.00	Drilled ahead
2009-07-24	22:00	Drill	2736.00	Drilled ahead
2009-07-25	00:00	Drill	2760.00	Drilled ahead
2009-07-25	02:00	Drill	2784.00	Drilled ahead
2009-07-25	04:00	Drill	2808.00	Drilled ahead
2009-07-25	06:00	Drill	2832.00	Drilled ahead
2009-07-25	08:00	Drill	2856.00	Drilled ahead
2009-07-25	10:00	Drill	2880.00	Drilled ahead
2009-07-25	12:00	Drill	2904.00	Drilled ahead
2009-07-25	14:00	Drill	2928.00	Drilled ahead
2009-07-25	16:00	Drill	2952.00	Drilled ahead
2009-07-25	18:00	Drill	2976.00	Drilled ahead
2009-07-25	20:00	Drill	3000.00	Drilled ahead
2009-07-25	22:00	Drill	3024.00	Drilled ahead
2009-07-26	00:00	Drill	3048.00	Drilled ahead
2009-07-26	02:00	Drill	3072.00	Drilled ahead
2009-07-26	04:00	Drill	3096.00	Drilled ahead
2009-07-26	06:00	Drill	3120.00	Drilled ahead
2009-07-26	08:00	Drill	3144.00	Drilled ahead
2009-07-26	10:00	Drill	3168.00	Drilled ahead
2009-07-26	12:00	Drill	3192.00	Drilled ahead
2009-07-26	14:00	Drill	3216.00	Drilled ahead
2009-07-26	16:00	Drill	3240.00	Drilled ahead
2009-07-26	18:00	Drill	3264.00	Drilled ahead
2009-07-26	20:00	Drill	3288.00	Drilled ahead
2009-07-26	22:00	Drill	3312.00	Drilled ahead
2009-07-27	00:00	Drill	3336.00	Drilled ahead
2009-07-27	02:00	Drill	3360.00	Drilled ahead
2009-07-27	04:00	Drill	3384.00	Drilled ahead
2009-07-27	06:00	Drill	3408.00	Drilled ahead
2009-07-27	08:00	Drill	3432.00	Drilled ahead
2009-07-27	10:00	Drill	3456.00	Drilled ahead
2009-07-27	12:00	Drill	3480.00	Drilled ahead
2009-07-27	14:00	Drill	3504.00	Drilled ahead
2009-07-27	16:00	Drill	3528.00	Drilled ahead
2009-07-27	18:00	Drill	3552.00	Drilled ahead
2009-07-27	20:00	Drill	3576.00	Drilled ahead
2009-07-27	22:00	Drill	3600.00	Drilled ahead
2009-07-28	00:00	Drill	3624.00	Drilled ahead
2009-07-28	02:00	Drill	3648.00	Drilled ahead
2009-07-28	04:00	Drill	3672.00	Drilled ahead
2009-07-28	06:00	Drill	3696.00	Drilled ahead
2009-07-28	08:00	Drill	3720.00	Drilled ahead
2009-07-28	10:00	Drill	3744.00	Drilled ahead
2009-07-28	12:00	Drill	3768.00	Drilled ahead
2009-07-28	14:00	Drill	3792.00	Drilled ahead
2009-07-28	16:00	Drill	3816.00	Drilled ahead
2009-07-28	18:00	Drill	3840.00	Drilled ahead
2009-07-28	20:00	Drill	3864.00	Drilled ahead
2009-07-28	22:00	Drill	3888.00	Drilled ahead
2009-07-29	00:00	Drill	3912.00	Drilled ahead
2009-07-29	02:00	Drill	3936.00	Drilled ahead
2009-07-29	04:00	Drill	3960.00	Drilled ahead
2009-07-29	06:00	Drill	3984.00	Drilled ahead
2009-07-29	08:00	Drill	4008.00	Drilled ahead
2009-07-29	10:00	Drill	4032.00	Drilled ahead
2009-07-29	12:00	Drill	4056.00	Drilled ahead
2009-07-29	14:00	Drill	4080.00	Drilled ahead
2009-07-29	16:00	Drill	4104.00	Drilled ahead
2009-07-29	18:00	Drill	4128.00	Drilled ahead
2009-07-29	20:00	Drill	4152.00	Drilled ahead
2009-07-29	22:00	Drill	4176.00	Drilled ahead
2009-07-30	00:00	Drill	4200.00	Drilled ahead
2009-07-30	02:00	Drill	4224.00	Drilled ahead
2009-07-30	04:00	Drill	4248.00	Drilled ahead
2009-07-30	06:00	Drill	4272.00	Drilled ahead
2009-07-30	08:00	Drill	4296.00	Drilled ahead
2009-07-30	10:00	Drill	4320.00	Drilled ahead
2009-07-30	12:00	Drill	4344.00	Drilled ahead
2009-07-30	14:00	Drill	4368.00	Drilled ahead
2009-07-30	16:00	Drill	4392.00	Drilled ahead
2009-07-30	18:00	Drill	4416.00	Drilled ahead
2009-07-30	20:00	Drill	4440.00	Drilled ahead
2009-07-30	22:00	Drill	4464.00	Drilled ahead

The analysis is derived by integrating 10min 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 inferred 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).

Gross 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	Distance and 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 Analysis Interpretation Notes

01-JUL-2009 12:23

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(horizo) and 1:4000(vertical), and the minimum 1:1

The analysis is derived by integrating 10min 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.

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

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TRUE DEPTH	The true vertical depth corresponding to the above depth. Corrected from the start of the analysis.
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AXIAL COORDINATES	The coordinates North and East from the target origin.
POLAR COORDINATES	Distance and 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:\Ingres\Corvus\BH\RAV08-07\D58 238 M.dta

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

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

First Depth: 10.10, 0.00 metres, 0.00 East of Origin

DEPTH		BOREHOLE		AXIAL COORDS		POLAR	
Log	True	Tilt	Azi	North	East	Brg	Radius
10.00	10.00	0.9	256.5	-0.00	0.00	172.	0.00
14.00	14.00	1.3	172.5	-0.06	0.01	169.	0.06
18.00	18.00	0.9	164.5	-0.11	0.03	163.	0.11
22.00	22.00	0.9	161.9	-0.11	0.03	163.	0.11
26.00	26.00	1.3	212.0	-0.14	0.01	183.	0.14
30.00	30.00	1.3	212.0	-0.16	0.00	180.	0.16
34.00	34.00	0.9	86.9	-0.16	0.02	174.	0.16
38.00	38.00	0.9	86.9	-0.18	0.05	163.	0.19
42.00	42.00	1.3	163.5	-0.21	0.06	164.	0.22
46.00	46.00	1.3	163.5	-0.26	0.10	158.	0.28
50.00	50.00	1.3	218.4	-0.29	0.10	163.	0.31
54.00	54.00	1.3	218.4	-0.32	0.08	167.	0.33
58.00	58.00	1.3	205.0	-0.35	0.07	168.	0.35
62.00	61.99	1.4	200.4	-0.39	0.05	171.	0.39
66.00	65.99	1.4	200.4	-0.43	0.03	174.	0.43
70.00	69.99	1.5	227.1	-0.47	0.00	179.	0.47
74.00	73.99	1.5	227.1	-0.51	0.02	178.	0.51
78.00	77.99	1.6	232.5	-0.55	0.04	177.	0.56
82.00	81.98	1.6	232.5	-0.60	0.06	176.	0.61
86.00	85.98	1.6	224.6	-0.63	0.10	168.	0.64
90.00	89.98	1.6	224.6	-0.66	0.14	161.	0.69
94.00	93.98	1.7	231.2	-0.61	-0.10	186.	0.64
98.00	97.98	1.9	231.2	-0.57	-0.24	203.	0.62
102.00	101.97	2.1	238.7	-0.52	-0.39	221.	0.66
106.00	105.97	2.2	244.5	-0.47	-0.53	234.	0.71
110.00	109.97	2.3	249.6	-0.42	-0.66	247.	0.78
114.00	113.96	2.4	254.2	-0.36	-0.78	258.	0.87
118.00	117.96	2.5	258.5	-0.29	-0.89	268.	0.97
122.00	121.96	2.6	262.5	-0.22	-0.99	277.	1.08
126.00	125.95	2.7	266.3	-0.14	-1.08	286.	1.21
130.00	129.95	2.8	269.9	-0.06	-1.16	294.	1.35
134.00	133.95	2.9	273.4	0.02	-1.23	302.	1.49
138.00	137.94	3.0	276.7	0.10	-1.29	310.	1.64
142.00	141.94	3.1	279.9	0.18	-1.34	317.	1.79
146.00	145.94	3.2	283.0	0.26	-1.38	324.	1.94
150.00	149.93	3.3	286.0	0.34	-1.41	331.	2.09
154.00	153.93	3.4	288.9	0.42	-1.43	338.	2.24
158.00	157.93	3.5	291.7	0.50	-1.44	344.	2.38
162.00	161.92	3.6	294.4	0.58	-1.44	350.	2.52
166.00	165.92	3.7	297.0	0.66	-1.43	356.	2.66
170.00	169.92	3.8	299.5	0.74	-1.41	362.	2.79
174.00	173.91	3.9	301.9	0.82	-1.38	368.	2.92
178.00	177.91	4.0	304.3	0.90	-1.34	374.	3.04
182.00	181.91	4.1	306.6	0.98	-1.29	380.	3.16
186.00	185.90	4.2	308.8	1.06	-1.23	386.	3.27
190.00	189.90	4.3	311.0	1.14	-1.16	392.	3.38
194.00	193.90	4.4	313.1	1.22	-1.08	398.	3.48
198.00	197.89	4.5	315.2	1.30	-1.00	404.	3.58
202.00	201.89	4.6	317.2	1.38	-0.91	410.	3.67
206.00	205.89	4.7	319.2	1.46	-0.81	416.	3.76
210.00	209.88	4.8	321.2	1.54	-0.71	422.	3.84
214.00	213.88	4.9	323.1	1.62	-0.60	428.	3.91
218.00	217.88	5.0	325.0	1.70	-0.49	434.	3.98
222.00	221.87	5.1	326.8	1.78	-0.37	440.	4.04
226.00	225.87	5.2	328.7	1.86	-0.25	446.	4.09
230.00	229.87	5.3	330.5	1.94	-0.13	452.	4.14
234.00	233.87	5.4	332.3	2.02	-0.00	458.	4.18
238.00	237.86	5.5	334.1	2.10	0.12	464.	4.22
242.00	241.86	5.6	335.8	2.18	0.25	470.	4.25
246.00	245.86	5.7	337.5	2.26	0.38	476.	4.28
250.00	249.85	5.8	339.2	2.34	0.51	482.	4.30
254.00	253.85	5.9	340.9	2.42	0.64	488.	4.31
258.00	257.85	6.0	342.6	2.50	0.77	494.	4.32
262.00	261.84	6.1	344.2	2.58	0.91	500.	4.32
266.00	265.84	6.2	345.8	2.66	1.04	506.	4.31
270.00	269.84	6.3	347.4	2.74	1.17	512.	4.30
274.00	273.83	6.4	349.0	2.82	1.31	518.	4.28
278.00	277.83	6.5	350.5	2.90	1.44	524.	4.25
282.00	281.83	6.6	352.1	2.98	1.57	530.	4.22
286.00	285.82	6.7	353.6	3.06	1.71	536.	4.18
290.00	289.82	6.8	355.1	3.14	1.84	542.	4.14
294.00	293.82	6.9	356.6	3.22	1.97	548.	4.09
298.00	297.81	7.0	358.1	3.30	2.11	554.	4.04
302.00	301.81	7.1	359.6	3.38	2.24	560.	3.98
306.00	305.81	7.2	361.0	3.46	2.37	566.	3.92
310.00	309.80	7.3	362.5	3.54	2.51	572.	3.85
314.00	313.80	7.4	363.9	3.62	2.64	578.	3.78
318.00	317.80	7.5	365.3	3.70	2.77	584.	3.71
322.00	321.79	7.6	366.7	3.78	2.91	590.	3.63
326.00	325.79	7.7	368.1	3.86	3.04	596.	3.55
330.00	329.79	7.8	369.5	3.94	3.17	602.	3.46
334.00	333.78	7.9	370.9	4.02	3.31	608.	3.37
338.00	337.78	8.0	372.3	4.10	3.44	614.	3.28
342.00	341.78	8.1	373.6	4.18	3.57	620.	3.18
346.00	345.77	8.2	375.0	4.26	3.71	626.	3.08
350.00	349.77	8.3	376.3	4.34	3.84	632.	2.97
354.00	353.77	8.4	377.7	4.42	3.97	638.	2.86
358.00	357.76	8.5	379.0	4.50	4.11	644.	2.75
362.00	361.76	8.6	380.3	4.58	4.24	650.	2.63
366.00	365.76	8.7	381.6	4.66	4.37	656.	2.51
370.00	369.75	8.8	382.9	4.74	4.51	662.	2.39
374.00	373.75	8.9	384.2	4.82	4.64	668.	2.26
378.00	377.75	9.0	385.5	4.90	4.77	674.	2.13
382.00	381.74	9.1	386.8	4.98	4.91	680.	2.00
386.00	385.74	9.2	388.1	5.06	5.04	686.	1.87
390.00	389.74	9.3	389.4	5.14	5.17	692.	1.73
394.00	393.73	9.4	390.6	5.22	5.31	698.	1.59
398.00	397.73	9.5	391.9	5.30	5.44	704.	1.45
402.00	401.73	9.6	393.2	5.38	5.57	710.	1.31
406.00	405.72	9.7	394.4	5.46	5.71	716.	1.16
410.00	409.72	9.8	395.7	5.54	5.84	722.	1.02
414.00	413.72	9.9	396.9	5.62	5.97	728.	0.87
418.00	417.71	10.0	398.2	5.70	6.11	734.	0.72
422.00	421.71	10.1	399.4	5.78	6.24	740.	0.57
426.00	425.71	10.2	400.7	5.86	6.37	746.	0.42
430.00	429.70	10.3	401.9	5.94	6.51	752.	0.27
434.00	433.70	10.4	403.2	6.02	6.64	758.	0.12
438.00	437.70	10.5	404.4	6.10	6.77	764.	0.03
442.00	441.69	10.6	405.7	6.18	6.91	770.	0.18
446.00	445.69	10.7	406.9	6.26	7.04	776.	0.33
450.00	449.69	10.8	408.2	6.34	7.17	782.	0.48
454.00	453.68	10.9	409.4	6.42	7.31	788.	0.63
458.00	457.68	11.0	410.7	6.50	7.44	794.	0.78
462.00	461.68	11.1	411.9	6.58	7.57	800.	0.93
466.00	465.67	11.2	413.2	6.66	7.71	806.	1.08
470.00	469.67	11.3	414.4	6.74	7.84	812.	1.23
474.00	473.67	11.4	415.7	6.82	7.97	818.	1.38
478.00	477.66	11.5	416.9	6.90	8.11	824.	1.53
482.00	481.66	11.6	418.2	6.98	8.24	830.	1.68
486.00	485.66	11.7	419.4	7.06	8.37	836.	1.83
490.00	489.65	11.8	420.7	7.14	8.51	842.	1.98
494.00	493.65	11.9	421.9	7.22	8.64	848.	2.13
498.00	497.65	12.0	423.2	7.30	8.77	854.	2.28
502.00	501.64	12.1	424.4	7.38	8.91	860.	2.43
506.00	505.64	12.2	425.7	7.46	9.04	866.	2.58
510.00	509.64	12.3	426.9	7.54	9.17	872.	2.73
514.00	513.63	12.4	428.2	7.62	9.31	878.	2.88
518.00	517.63	12.5	429.4	7.70	9.44	884.	3.03
522.00	521.63	12.6	430.7	7.78	9.57	890.	3.18
526.00	525.62	12.7	431.9	7.86	9.71	896.	3.33
530.00	529.62	12.8	433.2	7.94	9.84	902.	3.48
534.00	533.62	12.9	434.4	8.02	9.97	908.	3.63
538.00	537.61	13.0	435.7	8.10	10.11	914.	3.78
542.00	541.61	13.1	436.9	8.18	10.24	920.	3.93
546.00	545.61	13.2	438.2	8.26	10.37	926.	4.08
550.00	549.60	13.3	439.4	8.34	10.51	932.	4.23
554.00	553.60	13.4	440.7	8.42	10.64	938.	4.38
558.00	557.60	13.5	441.9	8.50	10.77	944.	4.53
562.00	561.59	13.6	443.2	8.58	10.91	950.	4.68
566.00	565.59	13.7	444.4	8.66	11.04	956.	4.83
570.00	569.59	13.8	445.7	8.74	11.17	962.	4.98
574.00	573.58	13.9	446.9	8.82	11.31	968.	5.13
578.00	577.58	14.0	448.2	8.90	11.44	974.	5.28
582.00	581.58	14.1	449.4	8.98	11.57	980.	5.43
586.00	585.57	14.2	450.7	9.06	11.71	986.	5.58
590.00	589.57	14.3	451.9	9.14	11.84	992.	5.73
594.00	593.57	14.4	453.2	9.22	11.97	998.	5.88
598.00	597.56	14.5	454.4	9.30	12.11	1004.	6.03
602.00	601.56	14.6	455.7	9.38	12.24	1010.	6.18
606.00	605.56	14.7	456.9	9.46	12.37	1016.	6.33
610.00	609.55	14.8	458.2	9.54	12.51	1022.	6.48
614.00	613.55	14.9	459.4	9.62	12.64	1028.	6.63
618.00	617.55	15.0	460.7	9.70	12.77	1034.	6.78
622.00	621.54	15.1	461.9	9.78	12.91	1040.	6.93
626.00	625.54	15.2	463.2	9.86	13.04	1046.	7.08
630.00	629.54	15.3	464.4	9.94	13.17	1052.	7.23
634.00	633.53	15.4	465.7	10.02	13.31	1058.	7.38
638.00	637.53	15.5	466.9	10.10	13.44	1064.	7.53
642.00	641.53	15.6	468.2	10.18	13.57	1070.	7.68
646.00	645.52	15.7	469.4	10.26	13.71	1076.	7.83
650.00	649.52	15.8	470.7	10.34	13.84	1082.	7.98
654.00	653.52	15.9	471.9	10.42	13.97	1088.	8.13
658.00	657.51	16.0	473.2	10.50	14.11	1094.	8.28
662.00	661.51	16.1	474.4	10.58	14.24	1100.	8.43
666.00	665.51	16.2	475.7	10.66	14.37	1106.	8.58
670.00	669.50	16.3	476.9	10.74	14.51	1112

COMPANY	COMPLIANCE COAL CORP		
WELL	RAV09-012		
FIELD	UNDEFINED		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Elevation Kelly Bushing	metres	First Reading	323.00 metres
Elevation Drill Floor	metres	Depth Driller	324.16 metres
Elevation Ground Level	metres	Depth Logger	323.00 metres

COMPOSITE COAL LOG

BOREHOLE RECORD

Last Edited: 01-JUL-2009 21:25

Bit Size millimetres	Depth From metres	Depth To metres
152.000	0.00	159.00
140.000	159.00	323.00

CASING RECORD

Type	Size millimetres	Depth From metres	Shoe Depth metres	Weight kg/m
Casing	193.000	0.00	28.24	25.30

REMARKS

COORDINATES
NAD83 NAD27
UNSTRM

DRITRIG
SRSMD

TOOL RUNS:
MWLGDS,NGC,VRT,MS2

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 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\Cores\09RAV09-012\09RAV09-012 MAN.mga
System Versions Logged with: 8.06.0212 Merged with: 8.06.0212 Plotted with: 8.06.0212

Plotted on 01-JUL-2009 21:40
Merged on 01-JUL-2009 11:40

Bit Size millimetres 90–140
FE Resistivity Shallow ohm metres 2–2000
FE Resistivity Deep ohm metres 2–2000
Gamma Ray from DD3 API 0–200
Caliper from DD3 millimetres 90–190
Density Short Spaced gram/cc 1.95–3
Depth in Metres
Replay Scale 1:240
Compensated Density gram/cc 2–3
Sandstone Neutron Por. percent 50–0
Density Correction gram/cc -0.25–0.500
60 cm Compen. Sonic 61/64 microseconds/metre 300–100
Vertically Tadpole relative to Magnetic North
Casing Shoe
60 cm Compen. Sonic 61/64
Sandstone Neutron Por.
Density Correction
Compensated Density
Density Short Spaced
Caliper from DD3
FE Resistivity Shallow
FE Resistivity Deep
Gamma Ray from DD3
Bit Size

Depth Based Data - Merged File
Filename: C:\logs\Cores\09RAV09-012\09RAV09-012 MAN.mga
System Versions Logged with: 8.06.0212 Merged with: 8.06.0212 Plotted with: 8.06.0212

Plotted on 01-JUL-2009 21:40
Merged on 01-JUL-2009 11:40

COMPOSITE LOG 1:240

COMPANY COMPLIANCE COAL CORP
WELL RAV09-012
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA
Elevation Kelly Bushing metres First Reading 323.00 metres
Elevation Drill Floor metres Depth Driller 324.16 metres
Elevation Ground Level metres Depth Logger 323.00 metres

Weatherford

COMPOSITE COAL LOG

100/16-15-084-14W6/00 Hunter Hz Ft St Jn Ft St Jn Ft St Jn

Formation Tops

Formation	Depth (m)	Elevation (m)
Bluesky	1000.0	-1000.0
Gething	1010.0	-1010.0
Gething Ss	1020.0	-1020.0
Gething Ss	1030.0	-1030.0
Gething Ss	1040.0	-1040.0
Gething Ss	1050.0	-1050.0
Gething Ss

COMPANY	COMPLIANCE COAL CORP		
WELL	RAVEN 012		
FIELD	UNDEFINED		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Logged On Date	15-Jul-2009	Total Recording Time	00:00 hrs
Logged On Time	00:00 hrs	Total Logging Time	00:00 hrs
Weather	Clear	Temperature	0 degrees

DUAL FOCUSED ELECTRIC GAMMA RAY - CALIPER

Weatherford

COMPANY	COMPLIANCE COAL CORP		
WELL	RAVEN 012		
FIELD	UNDEFINED		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
Logged On Date	15-Jul-2009	Total Recording Time	00:00 hrs
Logged On Time	00:00 hrs	Total Logging Time	00:00 hrs
Weather	Clear	Temperature	0 degrees

DUAL FOCUSED ELECTRIC GAMMA RAY - CALIPER

Weatherford

BOREHOLE RECORD

Bit Size	Date Run	Logged Date
152.400	15-Jul-2009	15-Jul-2009

CASING RECORD

Type	Size	Depth From	Depth To	Weight
Casing	152.400	0.000	18.000	0.000

REMARKS

CLEANED RIGS
Hard Check
DATA
SAFETY
TIED ON
PRE-LOGGING
PRELOADING OFF GRID

HOW DOES LONG COAL GO
WHAT IS THE PLAN

WELL NOT FLOWING

DO YOU HAVE ANYTHING ELSE

All interpretations are opinions based on inferences from other measurements and are correct, and we do not guarantee the accuracy or completeness of any interpretation or that any action taken by you based on such interpretations will be successful or profitable. We make no warranties, express or implied, of merchantability or fitness for any purpose or any other warranty, except that our interpretations represent our best judgment in providing such opinions. Gamma Ray, Density, Neutron, Induction, Sonic, Caliper, Spectral Gamma Ray, Resistivity, Temperature, Flow, Pressure, Spectral Density, Dipmeter, Borehole Televiewer, Cement Bond, Perforation, Formation Tester, Casing Inspection, Production Logging, Fluid Sampling, Wireline Conveyed Tools, Coring, Wireline Conveyed Services, Slickline, Wireline Services, Pipe Recovery, Pipe Cutting, Fishing, Wireline Services, Pipe Conveyed Services, Drilling Services, Completion Services, Production Services, Consulting Services, Data Processing, Data Management, Data Storage, Data Transmission, Data Reproduction, Data Interpretation, Data Analysis, Data Integration, Data Quality Control, Data Quality Assurance, Data Security, Data Integrity, Data Ownership, Data Rights, Data Licensing, Data Sharing, Data Exchange, Data Interoperability, Data Standardization, Data Normalization, Data Validation, Data Verification, Data Authentication, Data Encryption, Data Decryption, Data Compression, Data Decompression, Data Archiving, Data Retrieval, Data Backup, Data Recovery, Data Disaster Recovery, Data Business Continuity

| | | |

Halliburton

Halliburton Energy Services, Inc.
Duncan, Oklahoma

Customer: Chesapeake Operating, Inc.
Well: Hoover 1-29-17N-8W
Job Type: Cement Production Casing
Date: 03/01/2011
Job Number: 1000-0000-0000

Cementing Job Summary

Stage	Type	Volume	Density	Yield	Water Requirement
1	Lead	150 sks	11.4 lb/gal	2.97 ft³/sk	18.0 gal/sk
	Tail	150 sks	14.8 lb/gal	1.33 ft³/sk	6.3 gal/sk

Remarks

Customer:
Well:
Job Type:
Date:
Job Number:
Job Begin Date: 03/01/2011
Job Begin Time: 00:00
Job End Date: 03/01/2011
Job End Time: 00:00
Job Type: Cement Production Casing

Job Log

Time	Rate	Volume	Pressure	Description
00:00				Job Begin Date: 03/01/2011 Job Begin Time: 00:00 Job End Date: 03/01/2011 Job End Time: 00:00 Job Type: Cement Production Casing

Job Begin Date: 03/01/2011 Job Begin Time: 00:00 Job End Date: 03/01/2011 Job End Time: 00:00 Job Type: Cement Production Casing

SIGN COMPENSATED SONIC

COMPANY COMPLIANCE COAL CORP
WELL INVER 6-2
FIELD UNDEFINED
PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA

Weatherford

BOREHOLE RECORD

Bit Size	Drilled From	Drilled To
140.00	0.00	1000.00
140.00	1000.00	1010.00

CASING RECORD

Type	Size	Weight	Grade	Drlled Depth	Shoe Depth	Hole Size
Surface	114.30	0.00	Unknown	0.00	1000.00	140.00

REMARKS

FLOWING/STATIC
DRY/WET
SALINITY
LOGGER
LOCATION
Comments
Tool Type: Sonic
Tool Serial Number: 0000
Serial: 0000 - 0000 - 0000
Serial: 0000 - 0000 - 0000
WELL WITH FLOWING
Comments: SIGN COMPENSATED ALTIME

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MAIN LOG 1:240

Total Footage Logged: 1000.00 m
Depth Range: 0.00 m - 1000.00 m
Sensor Version: Logged with 3.06.01C1 Software: 3.06.01C1

Pulse Rate: 1 Pulse/m
Pulse Length: 0.0 m
Pulse Amplitude: 0.0 V
Sensor Offset: 0.00 m
Sensor Type: Sonic
Sensor Serial: 0000
Sensor Length: 0.00 m
Sensor Weight: 0.00 kg
Sensor Diameter: 0.00 mm
Sensor Pressure Rating: 0.00 kPa
Sensor Temperature Rating: 0.00 °C
Sensor Material: Unknown
Sensor Comments: Sonic

Date	Time	Type	Depth	Comment
2009-07-15	10:00	Spud	0.00	Spud
2009-07-15	12:00	Drill	24.00	Drilled ahead
2009-07-15	14:00	Drill	48.00	Drilled ahead
2009-07-15	16:00	Drill	72.00	Drilled ahead
2009-07-15	18:00	Drill	96.00	Drilled ahead
2009-07-15	20:00	Drill	120.00	Drilled ahead
2009-07-15	22:00	Drill	144.00	Drilled ahead
2009-07-16	00:00	Drill	168.00	Drilled ahead
2009-07-16	02:00	Drill	192.00	Drilled ahead
2009-07-16	04:00	Drill	216.00	Drilled ahead
2009-07-16	06:00	Drill	240.00	Drilled ahead
2009-07-16	08:00	Drill	264.00	Drilled ahead
2009-07-16	10:00	Drill	288.00	Drilled ahead
2009-07-16	12:00	Drill	312.00	Drilled ahead
2009-07-16	14:00	Drill	336.00	Drilled ahead
2009-07-16	16:00	Drill	360.00	Drilled ahead
2009-07-16	18:00	Drill	384.00	Drilled ahead
2009-07-16	20:00	Drill	408.00	Drilled ahead
2009-07-16	22:00	Drill	432.00	Drilled ahead
2009-07-17	00:00	Drill	456.00	Drilled ahead
2009-07-17	02:00	Drill	480.00	Drilled ahead
2009-07-17	04:00	Drill	504.00	Drilled ahead
2009-07-17	06:00	Drill	528.00	Drilled ahead
2009-07-17	08:00	Drill	552.00	Drilled ahead
2009-07-17	10:00	Drill	576.00	Drilled ahead
2009-07-17	12:00	Drill	600.00	Drilled ahead
2009-07-17	14:00	Drill	624.00	Drilled ahead
2009-07-17	16:00	Drill	648.00	Drilled ahead
2009-07-17	18:00	Drill	672.00	Drilled ahead
2009-07-17	20:00	Drill	696.00	Drilled ahead
2009-07-17	22:00	Drill	720.00	Drilled ahead
2009-07-18	00:00	Drill	744.00	Drilled ahead
2009-07-18	02:00	Drill	768.00	Drilled ahead
2009-07-18	04:00	Drill	792.00	Drilled ahead
2009-07-18	06:00	Drill	816.00	Drilled ahead
2009-07-18	08:00	Drill	840.00	Drilled ahead
2009-07-18	10:00	Drill	864.00	Drilled ahead
2009-07-18	12:00	Drill	888.00	Drilled ahead
2009-07-18	14:00	Drill	912.00	Drilled ahead
2009-07-18	16:00	Drill	936.00	Drilled ahead
2009-07-18	18:00	Drill	960.00	Drilled ahead
2009-07-18	20:00	Drill	984.00	Drilled ahead
2009-07-18	22:00	Drill	1008.00	Drilled ahead
2009-07-19	00:00	Drill	1032.00	Drilled ahead
2009-07-19	02:00	Drill	1056.00	Drilled ahead
2009-07-19	04:00	Drill	1080.00	Drilled ahead
2009-07-19	06:00	Drill	1104.00	Drilled ahead
2009-07-19	08:00	Drill	1128.00	Drilled ahead
2009-07-19	10:00	Drill	1152.00	Drilled ahead
2009-07-19	12:00	Drill	1176.00	Drilled ahead
2009-07-19	14:00	Drill	1200.00	Drilled ahead
2009-07-19	16:00	Drill	1224.00	Drilled ahead
2009-07-19	18:00	Drill	1248.00	Drilled ahead
2009-07-19	20:00	Drill	1272.00	Drilled ahead
2009-07-19	22:00	Drill	1296.00	Drilled ahead
2009-07-20	00:00	Drill	1320.00	Drilled ahead
2009-07-20	02:00	Drill	1344.00	Drilled ahead
2009-07-20	04:00	Drill	1368.00	Drilled ahead
2009-07-20	06:00	Drill	1392.00	Drilled ahead
2009-07-20	08:00	Drill	1416.00	Drilled ahead
2009-07-20	10:00	Drill	1440.00	Drilled ahead
2009-07-20	12:00	Drill	1464.00	Drilled ahead
2009-07-20	14:00	Drill	1488.00	Drilled ahead
2009-07-20	16:00	Drill	1512.00	Drilled ahead
2009-07-20	18:00	Drill	1536.00	Drilled ahead
2009-07-20	20:00	Drill	1560.00	Drilled ahead
2009-07-20	22:00	Drill	1584.00	Drilled ahead
2009-07-21	00:00	Drill	1608.00	Drilled ahead
2009-07-21	02:00	Drill	1632.00	Drilled ahead
2009-07-21	04:00	Drill	1656.00	Drilled ahead
2009-07-21	06:00	Drill	1680.00	Drilled ahead
2009-07-21	08:00	Drill	1704.00	Drilled ahead
2009-07-21	10:00	Drill	1728.00	Drilled ahead
2009-07-21	12:00	Drill	1752.00	Drilled ahead
2009-07-21	14:00	Drill	1776.00	Drilled ahead
2009-07-21	16:00	Drill	1800.00	Drilled ahead
2009-07-21	18:00	Drill	1824.00	Drilled ahead
2009-07-21	20:00	Drill	1848.00	Drilled ahead
2009-07-21	22:00	Drill	1872.00	Drilled ahead
2009-07-22	00:00	Drill	1896.00	Drilled ahead
2009-07-22	02:00	Drill	1920.00	Drilled ahead
2009-07-22	04:00	Drill	1944.00	Drilled ahead
2009-07-22	06:00	Drill	1968.00	Drilled ahead
2009-07-22	08:00	Drill	1992.00	Drilled ahead
2009-07-22	10:00	Drill	2016.00	Drilled ahead
2009-07-22	12:00	Drill	2040.00	Drilled ahead
2009-07-22	14:00	Drill	2064.00	Drilled ahead
2009-07-22	16:00	Drill	2088.00	Drilled ahead
2009-07-22	18:00	Drill	2112.00	Drilled ahead
2009-07-22	20:00	Drill	2136.00	Drilled ahead
2009-07-22	22:00	Drill	2160.00	Drilled ahead
2009-07-23	00:00	Drill	2184.00	Drilled ahead
2009-07-23	02:00	Drill	2208.00	Drilled ahead
2009-07-23	04:00	Drill	2232.00	Drilled ahead
2009-07-23	06:00	Drill	2256.00	Drilled ahead
2009-07-23	08:00	Drill	2280.00	Drilled ahead
2009-07-23	10:00	Drill	2304.00	Drilled ahead
2009-07-23	12:00	Drill	2328.00	Drilled ahead
2009-07-23	14:00	Drill	2352.00	Drilled ahead
2009-07-23	16:00	Drill	2376.00	Drilled ahead
2009-07-23	18:00	Drill	2400.00	Drilled ahead
2009-07-23	20:00	Drill	2424.00	Drilled ahead
2009-07-23	22:00	Drill	2448.00	Drilled ahead
2009-07-24	00:00	Drill	2472.00	Drilled ahead
2009-07-24	02:00	Drill	2496.00	Drilled ahead
2009-07-24	04:00	Drill	2520.00	Drilled ahead
2009-07-24	06:00	Drill	2544.00	Drilled ahead
2009-07-24	08:00	Drill	2568.00	Drilled ahead
2009-07-24	10:00	Drill	2592.00	Drilled ahead
2009-07-24	12:00	Drill	2616.00	Drilled ahead
2009-07-24	14:00	Drill	2640.00	Drilled ahead
2009-07-24	16:00	Drill	2664.00	Drilled ahead
2009-07-24	18:00	Drill	2688.00	Drilled ahead
2009-07-24	20:00	Drill	2712.00	Drilled ahead
2009-07-24	22:00	Drill	2736.00	Drilled ahead
2009-07-25	00:00	Drill	2760.00	Drilled ahead
2009-07-25	02:00	Drill	2784.00	Drilled ahead
2009-07-25	04:00	Drill	2808.00	Drilled ahead
2009-07-25	06:00	Drill	2832.00	Drilled ahead
2009-07-25	08:00	Drill	2856.00	Drilled ahead
2009-07-25	10:00	Drill	2880.00	Drilled ahead
2009-07-25	12:00	Drill	2904.00	Drilled ahead
2009-07-25	14:00	Drill	2928.00	Drilled ahead
2009-07-25	16:00	Drill	2952.00	Drilled ahead
2009-07-25	18:00	Drill	2976.00	Drilled ahead
2009-07-25	20:00	Drill	3000.00	Drilled ahead
2009-07-25	22:00	Drill	3024.00	Drilled ahead
2009-07-26	00:00	Drill	3048.00	Drilled ahead
2009-07-26	02:00	Drill	3072.00	Drilled ahead
2009-07-26	04:00	Drill	3096.00	Drilled ahead
2009-07-26	06:00	Drill	3120.00	Drilled ahead
2009-07-26	08:00	Drill	3144.00	Drilled ahead
2009-07-26	10:00	Drill	3168.00	Drilled ahead
2009-07-26	12:00	Drill	3192.00	Drilled ahead
2009-07-26	14:00	Drill	3216.00	Drilled ahead
2009-07-26	16:00	Drill	3240.00	Drilled ahead
2009-07-26	18:00	Drill	3264.00	Drilled ahead
2009-07-26	20:00	Drill	3288.00	Drilled ahead
2009-07-26	22:00	Drill	3312.00	Drilled ahead
2009-07-27	00:00	Drill	3336.00	Drilled ahead
2009-07-27	02:00	Drill	3360.00	Drilled ahead
2009-07-27	04:00	Drill	3384.00	Drilled ahead
2009-07-27	06:00	Drill	3408.00	Drilled ahead
2009-07-27	08:00	Drill	3432.00	Drilled ahead
2009-07-27	10:00	Drill	3456.00	Drilled ahead
2009-07-27	12:00	Drill	3480.00	Drilled ahead
2009-07-27	14:00	Drill	3504.00	Drilled ahead
2009-07-27	16:00	Drill	3528.00	Drilled ahead
2009-07-27	18:00	Drill	3552.00	Drilled ahead
2009-07-27	20:00	Drill	3576.00	Drilled ahead
2009-07-27	22:00	Drill	3600.00	Drilled ahead
2009-07-28	00:00	Drill	3624.00	Drilled ahead
2009-07-28	02:00	Drill	3648.00	Drilled ahead
2009-07-28	04:00	Drill	3672.00	Drilled ahead
2009-07-28	06:00	Drill	3696.00	Drilled ahead
2009-07-28	08:00	Drill	3720.00	Drilled ahead
2009-07-28	10:00	Drill	3744.00	Drilled ahead
2009-07-28	12:00	Drill	3768.00	Drilled ahead
2009-07-28	14:00	Drill	3792.00	Drilled ahead
2009-07-28	16:00	Drill	3816.00	Drilled ahead
2009-07-28	18:00	Drill	3840.00	Drilled ahead
2009-07-28	20:00	Drill	3864.00	Drilled ahead
2009-07-28	22:00	Drill	3888.00	Drilled ahead
2009-07-29	00:00	Drill	3912.00	Drilled ahead
2009-07-29	02:00	Drill	3936.00	Drilled ahead
2009-07-29	04:00	Drill	3960.00	Drilled ahead
2009-07-29	06:00	Drill	3984.00	Drilled ahead
2009-07-29	08:00	Drill	4008.00	Drilled ahead
2009-07-29	10:00	Drill	4032.00	Drilled ahead
2009-07-29	12:00	Drill	4056.00	Drilled ahead
2009-07-29	14:00	Drill	4080.00	Drilled ahead
2009-07-29	16:00	Drill	4104.00	Drilled ahead
2009-07-29	18:00	Drill	4128.00	Drilled ahead
2009-07-29	20:00	Drill	4152.00	Drilled ahead
2009-07-29	22:00	Drill	4176.00	Drilled ahead
2009-07-30	00:00	Drill	4200.00	Drilled ahead
2009-07-30	02:00	Drill	4224.00	Drilled ahead
2009-07-30	04:00	Drill	4248.00	Drilled ahead
2009-07-30	06:00	Drill	4272.00	Drilled ahead
2009-07-30	08:00	Drill	4296.00	Drilled ahead
2009-07-30	10:00	Drill	4320.00	Drilled ahead
2009-07-30	12:00	Drill	4344.00	Drilled ahead
2009-07-30	14:00	Drill	4368.00	Drilled ahead
2009-07-30	16:00	Drill	4392.00	Drilled ahead
2009-07-30	18:00	Drill	4416.00	Drilled ahead
2009-07-30	20:00	Drill	4440.00	Drilled ahead
2009-07-30	22:00	Drill	4464.00	Drilled ahead

The analysis is derived by integrating 10min 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 inferred 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).

Gross 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	Distance and 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 Analysis Interpretation Notes

01-JUL-2009 12:23

All plotted output is automatically scaled to obtain the best visual effect within the physical space available. The maximum scales being 1:50000(horizo) and 1:4000(vertical), and the minimum 1:1

The analysis is derived by integrating 10min 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.

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

Verticality Data Listing

C:\Ingres\Corvus\BH\RAV08-07\D58 238 M.dta

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

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

First Depth: 10.10, 0.00 metres, 0.00 East of Origin

DEPTH		BOREHOLE		AXIAL COORDS		POLAR	
Log	True	Tilt	Azi	North	East	Brg	Radius
10.00	10.00	0.9	256.5	-0.00	0.00	172.	0.00
14.00	14.00	1.3	172.5	-0.06	0.01	169.	0.06
18.00	18.00	0.9	164.5	-0.11	0.03	163.	0.11
22.00	22.00	0.9	161.9	-0.11	0.03	163.	0.11
26.00	26.00	1.3	212.0	-0.14	0.01	183.	0.14
30.00	30.00	1.3	212.0	-0.16	0.00	180.	0.16
34.00	34.00	0.9	86.9	-0.16	0.02	174.	0.16
38.00	38.00	0.9	86.9	-0.18	0.05	163.	0.19
42.00	42.00	1.3	163.5	-0.21	0.06	164.	0.22
46.00	46.00	1.3	163.5	-0.26	0.10	158.	0.28
50.00	50.00	1.3	218.4	-0.29	0.10	163.	0.31
54.00	54.00	1.3	218.4	-0.32	0.08	167.	0.33
58.00	58.00	1.3	205.0	-0.35	0.07	168.	0.35
62.00	61.99	1.4	200.4	-0.39	0.05	171.	0.39
66.00	65.99	1.4	200.4	-0.43	0.03	174.	0.43
70.00	69.99	1.5	227.1	-0.47	0.00	179.	0.47
74.00	73.99	1.5	227.1	-0.51	0.02	178.	0.51
78.00	77.99	1.6	232.5	-0.55	0.04	177.	0.56
82.00	81.98	1.6	232.5	-0.60	0.06	176.	0.61
86.00	85.98	1.6	224.6	-0.63	0.10	168.	0.64
90.00	89.98	1.6	224.6	-0.66	0.14	161.	0.69
94.00	93.98	1.7	231.2	-0.61	-0.10	186.	0.64
98.00	97.98	1.9	231.2	-0.57	-0.24	203.	0.62
102.00	101.97	2.1	238.7	-0.52	-0.39	221.	0.66
106.00	105.97	2.2	244.5	-0.47	-0.53	234.	0.71
110.00	109.97	2.3	249.6	-0.42	-0.66	247.	0.78
114.00	113.96	2.4	254.2	-0.36	-0.78	258.	0.87
118.00	117.96	2.5	258.5	-0.29	-0.89	268.	0.97
122.00	121.96	2.6	262.5	-0.22	-0.99	277.	1.08
126.00	125.95	2.7	266.3	-0.14	-1.08	286.	1.21
130.00	129.95	2.8	269.9	-0.06	-1.16	294.	1.35
134.00	133.95	2.9	273.4	0.02	-1.23	302.	1.49
138.00	137.94	3.0	276.7	0.10	-1.29	310.	1.64
142.00	141.94	3.1	279.9	0.18	-1.34	317.	1.79
146.00	145.94	3.2	283.0	0.26	-1.38	324.	1.94
150.00	149.93	3.3	286.0	0.34	-1.41	331.	2.09
154.00	153.93	3.4	288.9	0.42	-1.43	338.	2.24
158.00	157.93	3.5	291.7	0.50	-1.44	344.	2.38
162.00	161.92	3.6	294.4	0.58	-1.44	350.	2.52
166.00	165.92	3.7	297.0	0.66	-1.43	356.	2.66
170.00	169.92	3.8	299.5	0.74	-1.41	362.	2.79
174.00	173.91	3.9	301.9	0.82	-1.38	368.	2.92
178.00	177.91	4.0	304.3	0.90	-1.34	374.	3.04
182.00	181.91	4.1	306.6	0.98	-1.29	380.	3.16
186.00	185.90	4.2	308.8	1.06	-1.23	386.	3.27
190.00	189.90	4.3	311.0	1.14	-1.16	392.	3.38
194.00	193.90	4.4	313.1	1.22	-1.08	398.	3.48
198.00	197.89	4.5	315.2	1.30	-1.00	404.	3.58
202.00	201.89	4.6	317.2	1.38	-0.91	410.	3.67
206.00	205.89	4.7	319.2	1.46	-0.81	416.	3.76
210.00	209.88	4.8	321.2	1.54	-0.71	422.	3.84
214.00	213.88	4.9	323.1	1.62	-0.60	428.	3.91
218.00	217.88	5.0	325.0	1.70	-0.49	434.	3.98
222.00	221.87	5.1	326.8	1.78	-0.37	440.	4.04
226.00	225.87	5.2	328.7	1.86	-0.25	446.	4.09
230.00	229.87	5.3	330.5	1.94	-0.13	452.	4.14
234.00	233.87	5.4	332.3	2.02	-0.00	458.	4.18
238.00	237.86	5.5	334.1	2.10	0.12	464.	4.22
242.00	241.86	5.6	335.8	2.18	0.25	470.	4.25
246.00	245.86	5.7	337.5	2.26	0.38	476.	4.28
250.00	249.85	5.8	339.2	2.34	0.51	482.	4.30
254.00	253.85	5.9	340.9	2.42	0.64	488.	4.31
258.00	257.85	6.0	342.6	2.50	0.77	494.	4.32
262.00	261.84	6.1	344.2	2.58	0.91	500.	4.32
266.00	265.84	6.2	345.8	2.66	1.04	506.	4.31
270.00	269.84	6.3	347.4	2.74	1.17	512.	4.30
274.00	273.83	6.4	349.0	2.82	1.31	518.	4.28
278.00	277.83	6.5	350.5	2.90	1.44	524.	4.25
282.00	281.83	6.6	352.1	2.98	1.57	530.	4.22
286.00	285.82	6.7	353.6	3.06	1.71	536.	4.18
290.00	289.82	6.8	355.1	3.14	1.84	542.	4.14
294.00	293.82	6.9	356.6	3.22	1.97	548.	4.09
298.00	297.81	7.0	358.1	3.30	2.11	554.	4.04
302.00	301.81	7.1	359.6	3.38	2.24	560.	3.98
306.00	305.81	7.2	361.0	3.46	2.37	566.	3.92
310.00	309.80	7.3	362.5	3.54	2.51	572.	3.85
314.00	313.80	7.4	363.9	3.62	2.64	578.	3.78
318.00	317.80	7.5	365.3	3.70	2.77	584.	3.71
322.00	321.79	7.6	366.7	3.78	2.91	590.	3.63
326.00	325.79	7.7	368.1	3.86	3.04	596.	3.55
330.00	329.79	7.8	369.5	3.94	3.17	602.	3.46
334.00	333.78	7.9	370.9	4.02	3.31	608.	3.37
338.00	337.78	8.0	372.3	4.10	3.44	614.	3.28
342.00	341.78	8.1	373.6	4.18	3.57	620.	3.18
346.00	345.77	8.2	375.0	4.26	3.71	626.	3.08
350.00	349.77	8.3	376.3	4.34	3.84	632.	2.97
354.00	353.77	8.4	377.7	4.42	3.97	638.	2.86
358.00	357.76	8.5	379.0	4.50	4.11	644.	2.75
362.00	361.76	8.6	380.3	4.58	4.24	650.	2.63
366.00	365.76	8.7	381.6	4.66	4.37	656.	2.51
370.00	369.75	8.8	382.9	4.74	4.51	662.	2.39
374.00	373.75	8.9	384.2	4.82	4.64	668.	2.26
378.00	377.75	9.0	385.5	4.90	4.77	674.	2.13
382.00	381.74	9.1	386.8	4.98	4.91	680.	2.00
386.00	385.74	9.2	388.1	5.06	5.04	686.	1.87
390.00	389.74	9.3	389.4	5.14	5.17	692.	1.73
394.00	393.73	9.4	390.6	5.22	5.31	698.	1.59
398.00	397.73	9.5	391.9	5.30	5.44	704.	1.45
402.00	401.73	9.6	393.2	5.38	5.57	710.	1.31
406.00	405.72	9.7	394.4	5.46	5.71	716.	1.16
410.00	409.72	9.8	395.7	5.54	5.84	722.	1.02
414.00	413.72	9.9	396.9	5.62	5.97	728.	0.87
418.00	417.71	10.0	398.2	5.70	6.11	734.	0.72
422.00	421.71	10.1	399.4	5.78	6.24	740.	0.57
426.00	425.71	10.2	400.7	5.86	6.37	746.	0.42
430.00	429.70	10.3	401.9	5.94	6.51	752.	0.27
434.00	433.70	10.4	403.2	6.02	6.64	758.	0.12
438.00	437.70	10.5	404.4	6.10	6.77	764.	0.03
442.00	441.69	10.6	405.7	6.18	6.91	770.	0.18
446.00	445.69	10.7	406.9	6.26	7.04	776.	0.33
450.00	449.69	10.8	408.2	6.34	7.17	782.	0.48
454.00	453.68	10.9	409.4	6.42	7.31	788.	0.63
458.00	457.68	11.0	410.7	6.50	7.44	794.	0.78
462.00	461.68	11.1	411.9	6.58	7.57	800.	0.93
466.00	465.67	11.2	413.2	6.66	7.71	806.	1.08
470.00	469.67	11.3	414.4	6.74	7.84	812.	1.23
474.00	473.67	11.4	415.7	6.82	7.97	818.	1.38
478.00	477.66	11.5	416.9	6.90	8.11	824.	1.53
482.00	481.66	11.6	418.2	6.98	8.24	830.	1.68
486.00	485.66	11.7	419.4	7.06	8.37	836.	1.83
490.00	489.65	11.8	420.7	7.14	8.51	842.	1.98
494.00	493.65	11.9	421.9	7.22	8.64	848.	2.13
498.00	497.65	12.0	423.2	7.30	8.77	854.	2.28
502.00	501.64	12.1	424.4	7.38	8.91	860.	2.43
506.00	505.64	12.2	425.7	7.46	9.04	866.	2.58
510.00	509.64	12.3	426.9	7.54	9.17	872.	2.73
514.00	513.63	12.4	428.2	7.62	9.31	878.	2.88
518.00	517.63	12.5	429.4	7.70	9.44	884.	3.03
522.00	521.63	12.6	430.7	7.78	9.57	890.	3.18
526.00	525.62	12.7	431.9	7.86	9.71	896.	3.33
530.00	529.62	12.8	433.2	7.94	9.84	902.	3.48
534.00	533.62	12.9	434.4	8.02	9.97	908.	3.63
538.00	537.61	13.0	435.7	8.10	10.11	914.	3.78
542.00	541.61	13.1	436.9	8.18	10.24	920.	3.93
546.00	545.61	13.2	438.2	8.26	10.37	926.	4.08
550.00	549.60	13.3	439.4	8.34	10.51	932.	4.23
554.00	553.60	13.4	440.7	8.42	10.64	938.	4.38
558.00	557.60	13.5	441.9	8.50	10.77	944.	4.53
562.00	561.59	13.6	443.2	8.58	10.91	950.	4.68
566.00	565.59	13.7	444.4	8.66	11.04	956.	4.83
570.00	569.59	13.8	445.7	8.74	11.17	962.	4.98
574.00	573.58	13.9	446.9	8.82	11.31	968.	5.13
578.00	577.58	14.0	448.2	8.90	11.44	974.	5.28
582.00	581.58	14.1	449.4	8.98	11.57	980.	5.43
586.00	585.57	14.2	450.7	9.06	11.71	986.	5.58
590.00	589.57	14.3	451.9	9.14	11.84	992.	5.73
594.00	593.57	14.4	453.2	9.22	11.97	998.	5.88
598.00	597.56	14.5	454.4	9.30	12.11	1004.	6.03
602.00	601.56	14.6	455.7	9.38	12.24	1010.	6.18
606.00	605.56	14.7	456.9	9.46	12.37	1016.	6.33
610.00	609.55	14.8	458.2	9.54	12.51	1022.	6.48
614.00	613.55	14.9	459.4	9.62	12.64	1028.	6.63
618.00	617.55	15.0	460.7	9.70	12.77	1034.	6.78
622.00	621.54	15.1	461.9	9.78	12.91	1040.	6.93
626.00	625.54	15.2	463.2	9.86	13.04	1046.	7.08
630.00	629.54	15.3	464.4	9.94	13.17	1052.	7.23
634.00	633.53	15.4	465.7	10.02	13.31	1058.	7.38
638.00	637.53	15.5	466.9	10.10	13.44	1064.	7.53
642.00	641.53	15.6	468.2	10.18	13.57	1070.	7.68
646.00	645.52	15.7	469.4	10.26	13.71	1076.	7.83
650.00	649.52	15.8	470.7	10.34	13.84	1082.	7.98
654.00	653.52	15.9	471.9	10.42	13.97	1088.	8.13
658.00	657.51	16.0	473.2	10.50	14.11	1094.	8.28
662.00	661.51	16.1	474.4	10.58	14.24	1100.	8.43
666.00	665.51	16.2	475.7	10.66	14.37	1106.	8.58
670.00	669.50	16.3	476.9	10.74	14.51	1112