HALLIBURTON

ACOUSTIC CEMENT
BOND LOG

Company Bill Barrett Corporation
Well GGU Roderick 41A-31-691
Field Gibson Gulch
County GARFIELD State CO

Company	Bill Barrett Corporation
Well	GGU Roderick 41A-31-691
Field	Gibson Gulch
County	GARFIELD State CO

API No.: 05-045-15735 Serv #: 6033714

Location: SHL: 828' FNL & 1544' FEL
BHL: 1107' FNL & 495' FEL

Sec: 31 Twp: 6S Rge: 91W

Other Services

N/A

Permanent Datum	GROUND LEVEL	Elevation 5928	Elevation	
Log Measured From	KB , 15 Ft. above perm. datum		K.B.	5943
			D.F.	5942
Drilling Measured From	KB		G.L.	5928

Date @ Time Logged	19 July 2008 @ 1200	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.4 PPG
Depth - Driller	7308	Fluid Level	Surface
Depth - Logger	7210	Cement Top Est. Logged	2338
Bottom - Logged Interval	7210	Equipment / Location	10988010 / GJ
Top - Log Interval	2100	Recorded by	J. Folkers
Max. Recorded Temp.	N/A	Witnessed by	Mr. Gary Etter

CEMENTING DATA	Surface String	Protection String	Production String	Liner
Date / Time Cemented				
Primary / Squeeze				
Expected Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs	psi@ hrs
Cement Volume				
Cement Type / Weight	/	/	/	/
Formulation				
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record				Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	7.880	795	7308	9.625	36	SURFACE	795
				4.5	11.6	795	7306

<<< Fold Here >>>

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHCIH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

Comments

CBL/GR/CCL RAN IN COMBINATION

HES CBL LOG DATED JUNE 20, 2008 ,CORRELATED W/ OPEN HOLE LOG WEATHERFORD
DATED: May 26,2008

SHORT JOINT: 6852 to 6881 & 5076 to 5105.
YOUR CREW TODAY: M. SHEA & A. Kodah

****THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES; GRAND JUNCTION, CO***
****(970) 523 - 3600****

HALLIBURTON

Free Pipe Pass

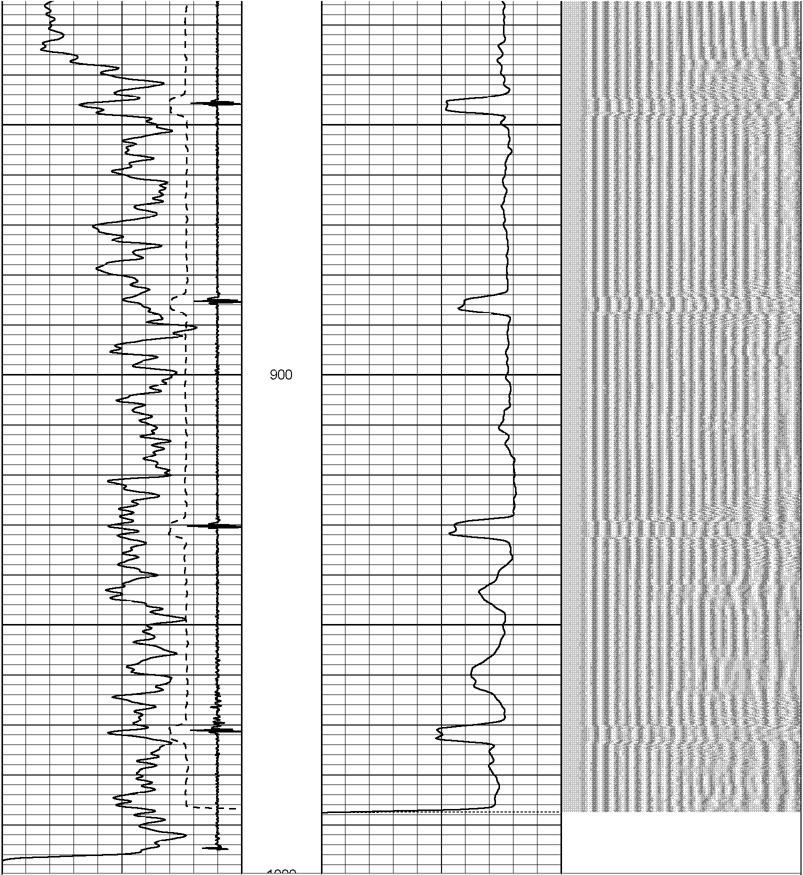
5" = 100'

Database File: bb_ggu_rod_41a_31_691_cbl.db
Dataset Pathname: pass2
Presentation Format: josh cbl
Dataset Creation: Sat Jul 19 11:29:47 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

350	Travel Time (usec)	250
9	Collar Locator	-1
0	Gamma Ray (GAPI)	200

0	Amplified Amplitude (mV)	10
0	Amplitude (mV)	100

200	Variable Density	1200



350 Travel Time (usec) 250
9 Collar Locator -1
0 Gamma Ray (GAPI) 200

0 Amplified Amplitude (mV) 10
0 Amplitude (mV) 100

200 Variable Density 1200

HALLIBURTON

Free Pipe Pass

5" = 100'

HALLIBURTON

Repeat Pass

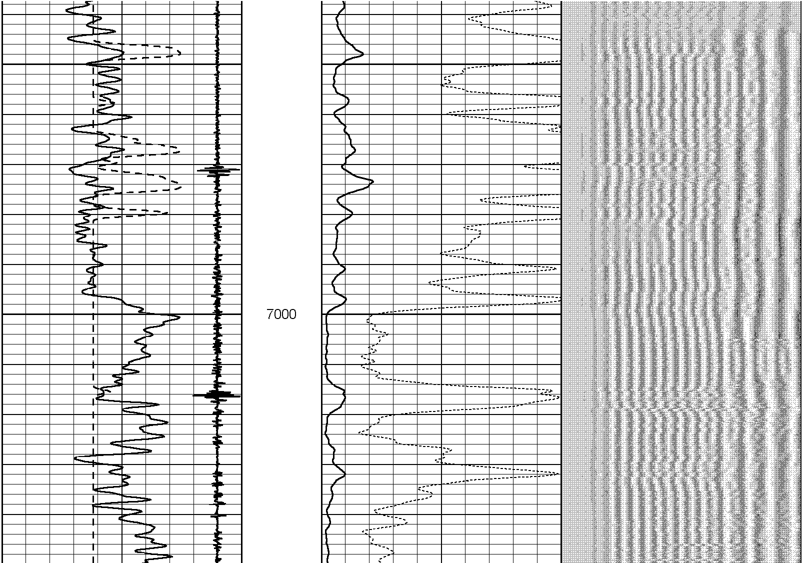
5" = 100'

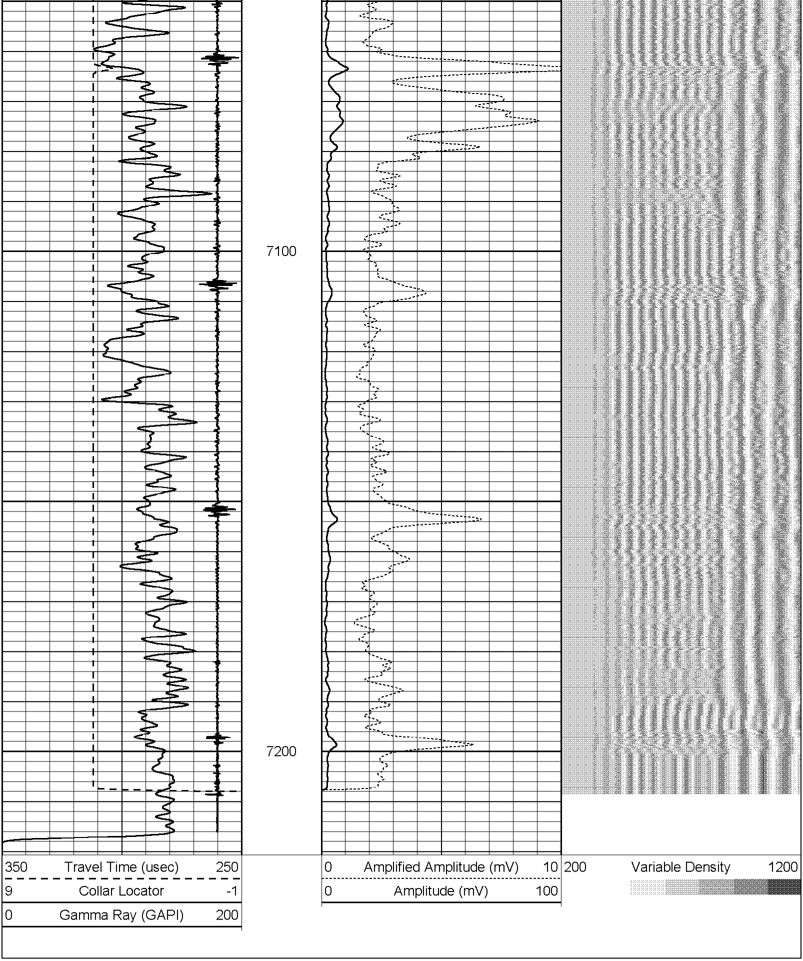
Database File:	bb_ggu_rod_41a_31_691_cbl.db
Dataset Pathname:	pass4
Presentation Format:	josh cbl
Dataset Creation:	Sat Jul 19 12:00:04 2008 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

350 Travel Time (usec) 250
9 Collar Locator -1
0 Gamma Ray (GAPI) 200

0 Amplified Amplitude (mV) 10
0 Amplitude (mV) 100

200 Variable Density 1200



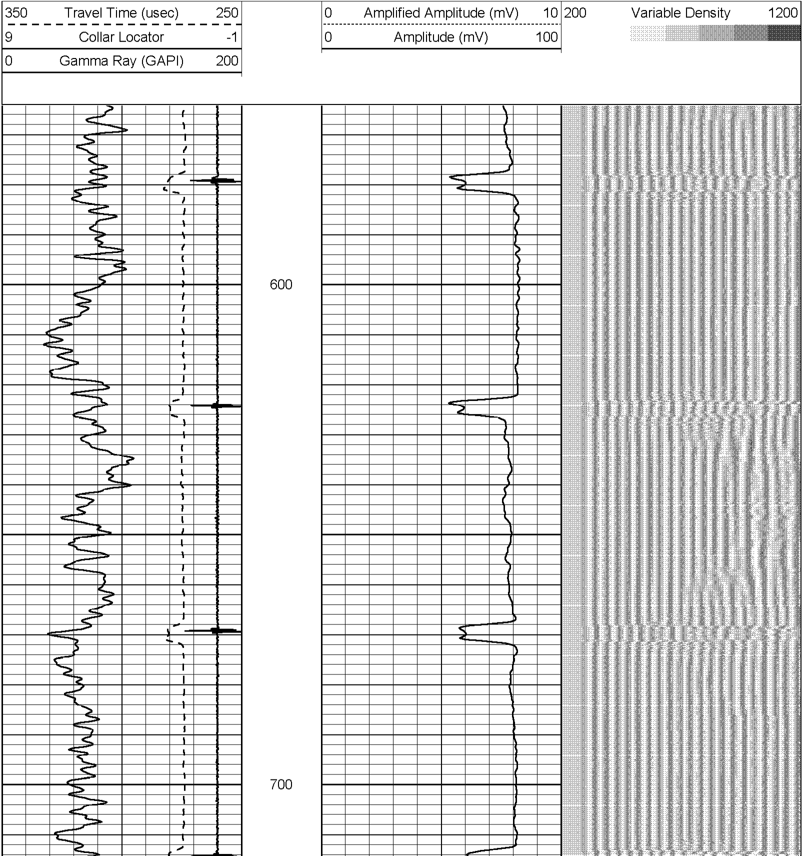


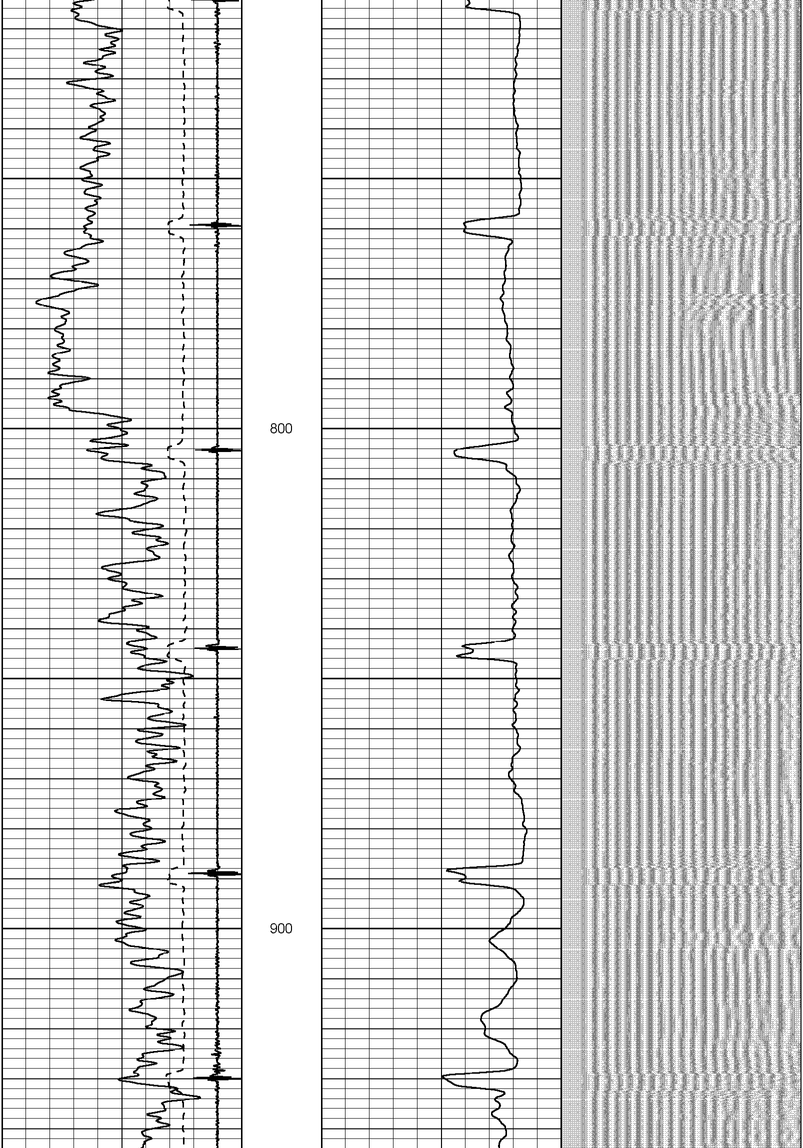
HALLIBURTON

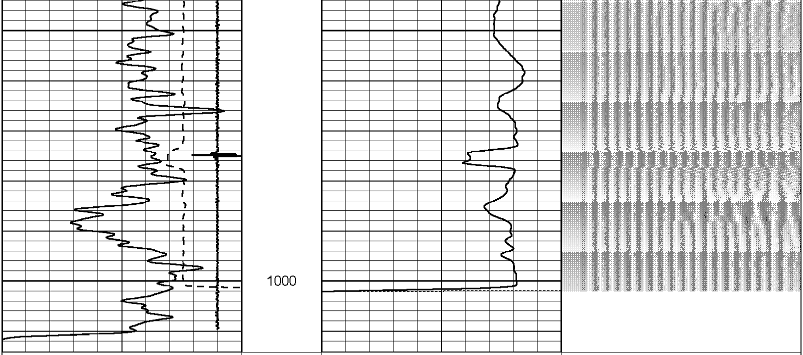
Surface Casing Pass

5" = 100'

Database File:	bb_ggu_rod_41a_31_691_cbl.db
Dataset Pathname:	pass6
Presentation Format:	josh cbl
Dataset Creation:	Sat Jul 19 13:18:29 2008 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240







350 Travel Time (usec) 250
9 Collar Locator -1
0 Gamma Ray (GAPI) 200

0 Amplified Amplitude (mV) 10
0 Amplitude (mV) 100

200 Variable Density 1200

HALLIBURTON

Main Pass

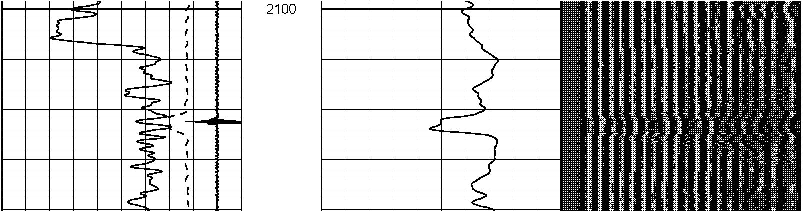
5" = 100'

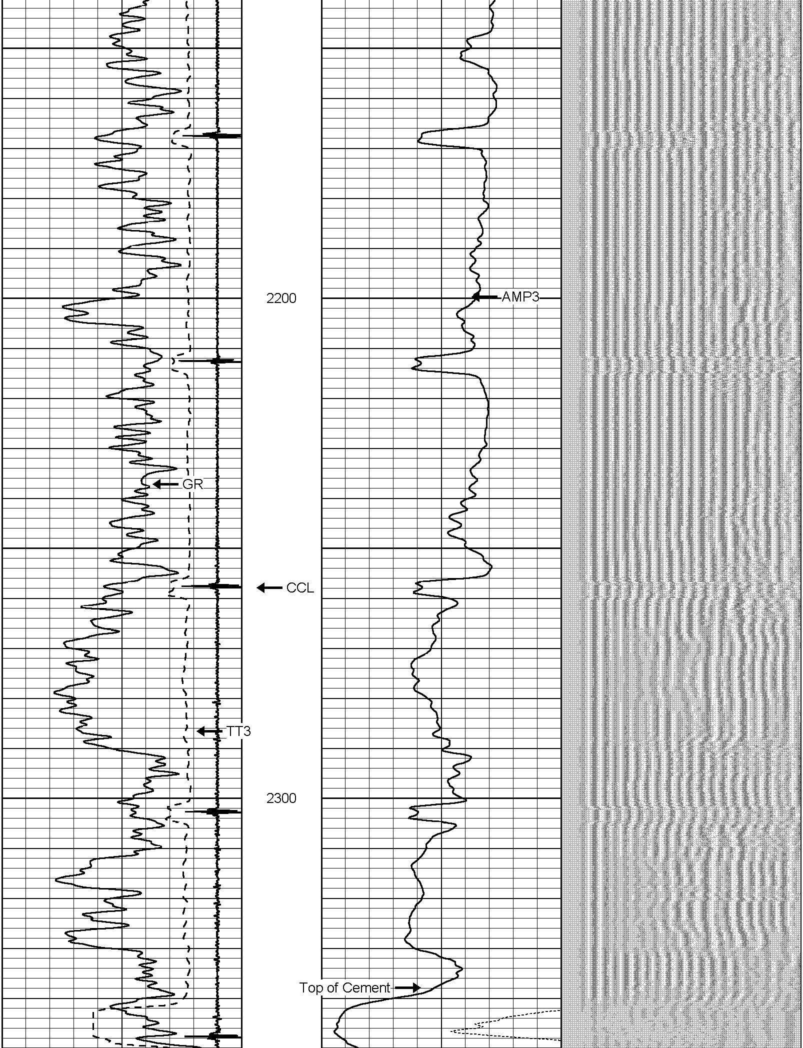
Database File:	bb_ggu_rod_41a_31_691_cbl.db
Dataset Pathname:	pass5
Presentation Format:	josh cbl
Dataset Creation:	Sat Jul 19 12:09:15 2008 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

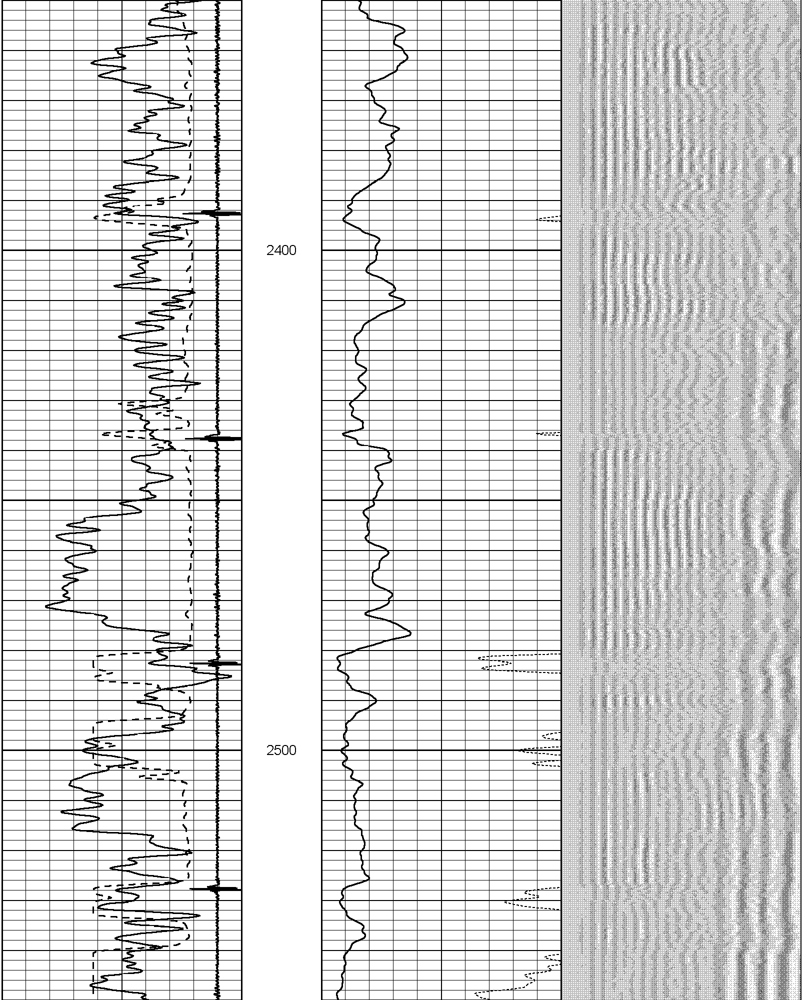
350 Travel Time (usec) 250
9 Collar Locator -1
0 Gamma Ray (GAPI) 200

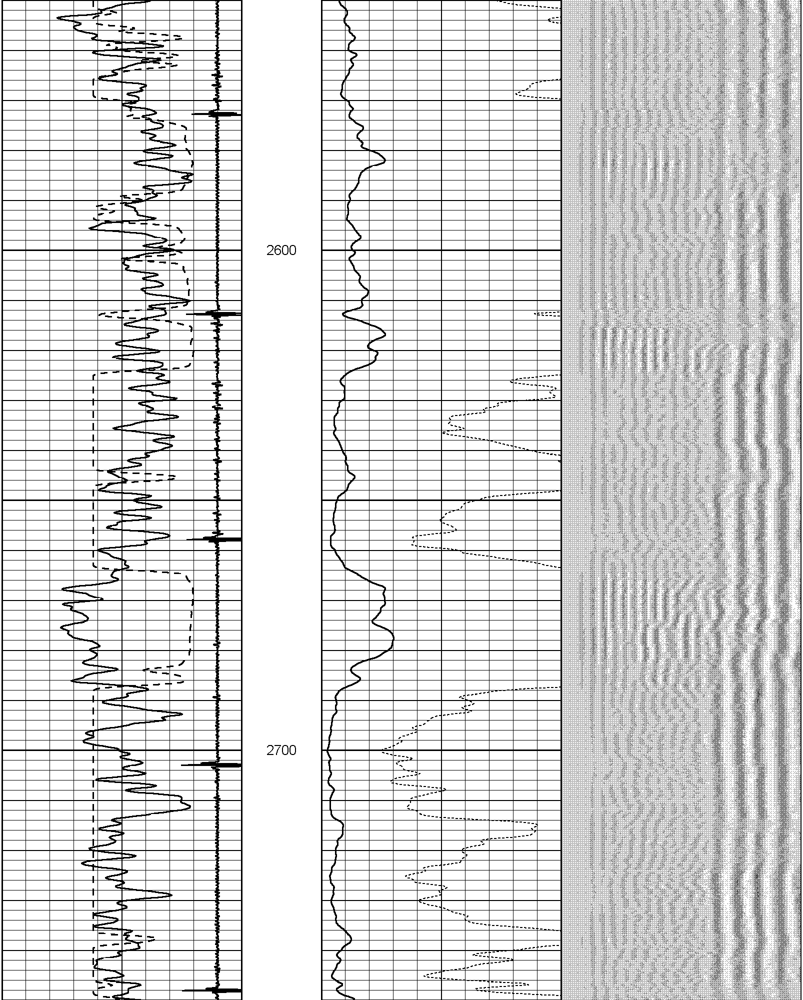
0 Amplified Amplitude (mV) 10
0 Amplitude (mV) 100

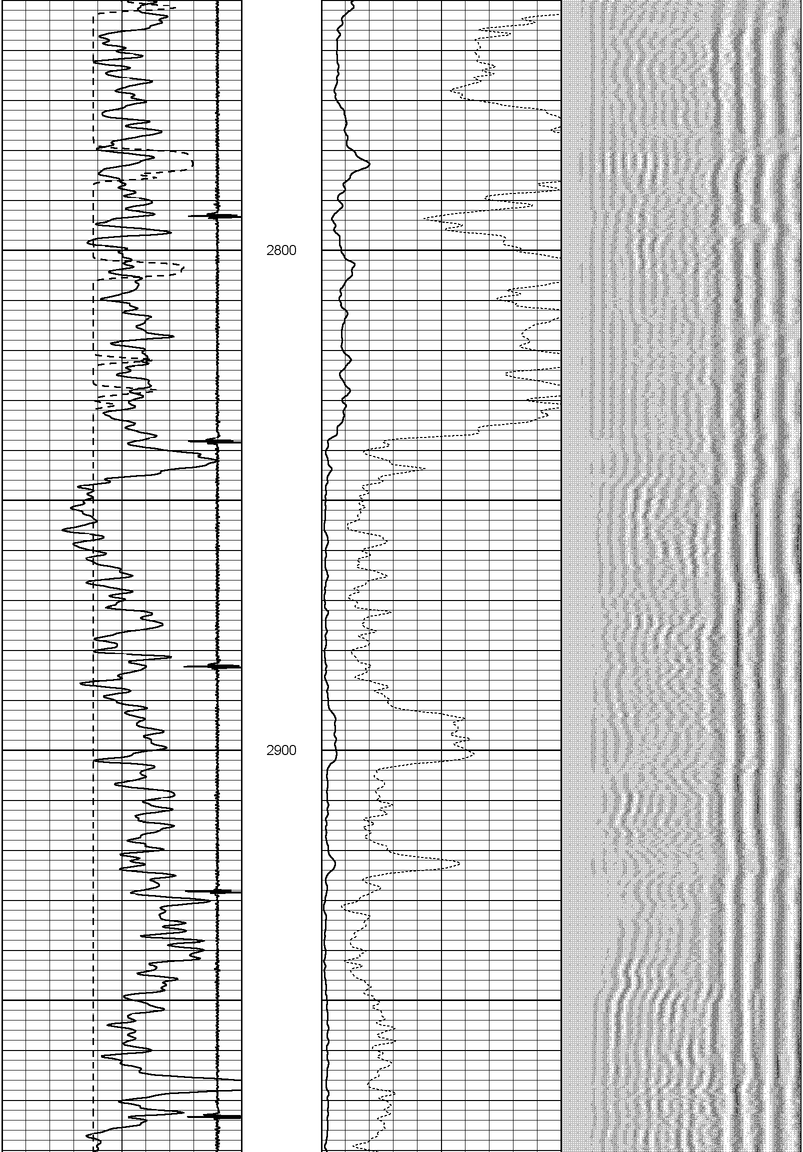
200 Variable Density 1200

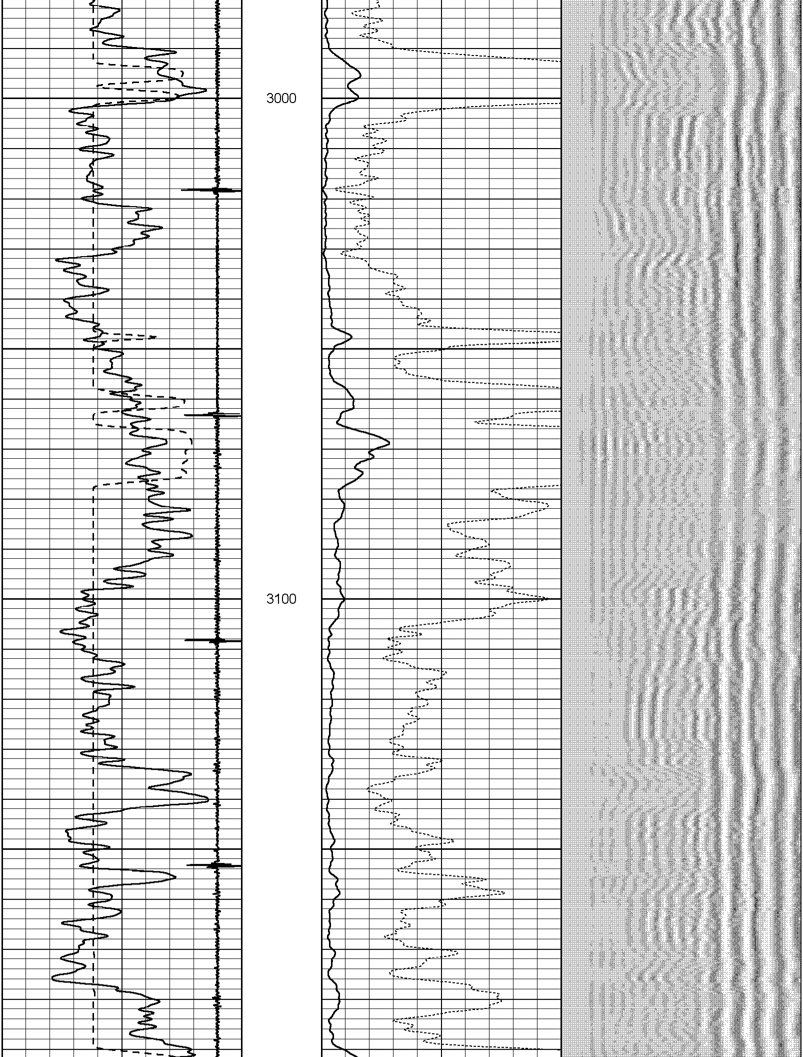


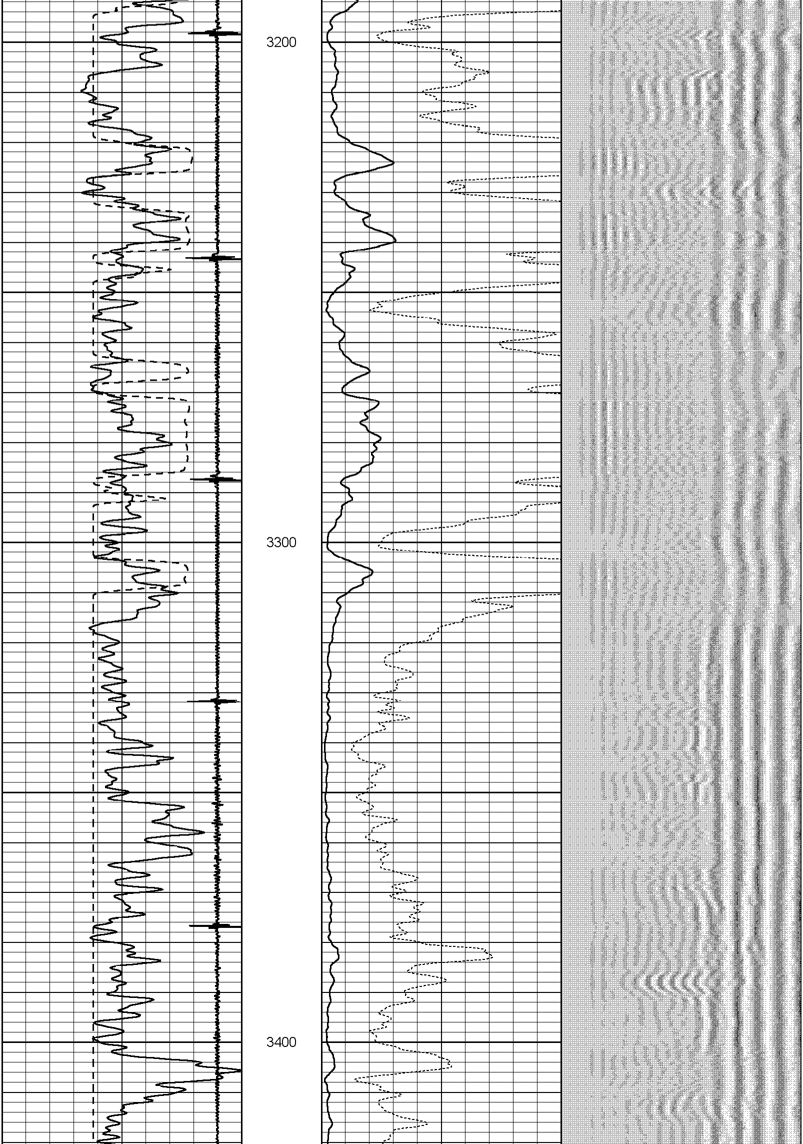


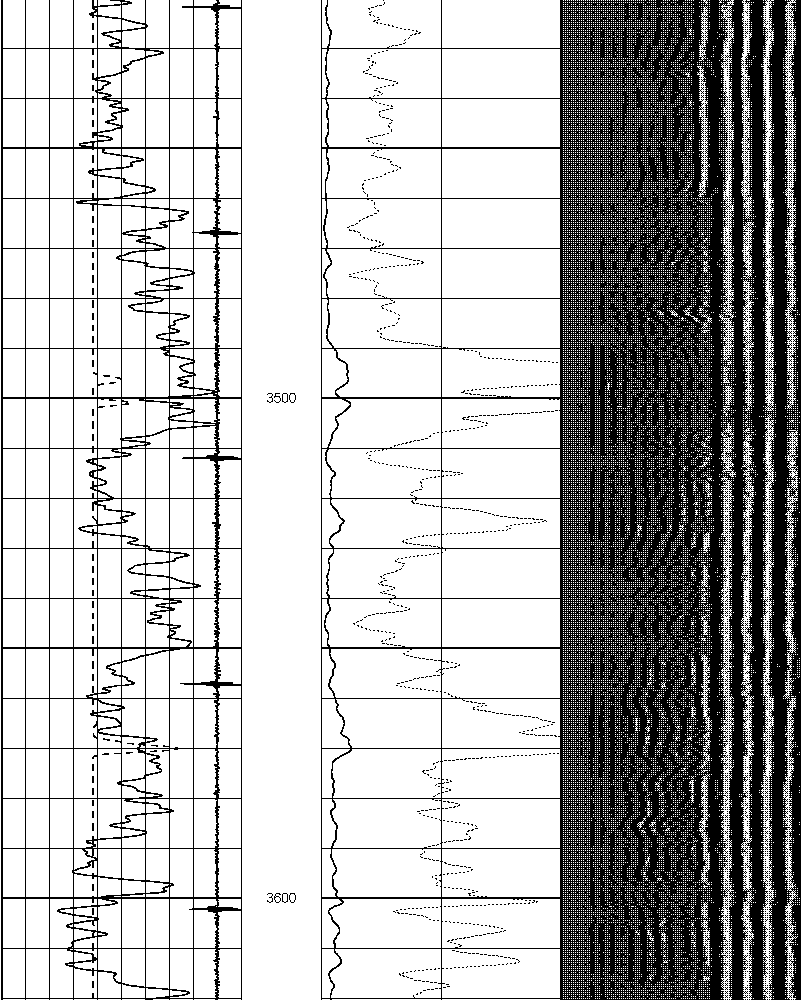


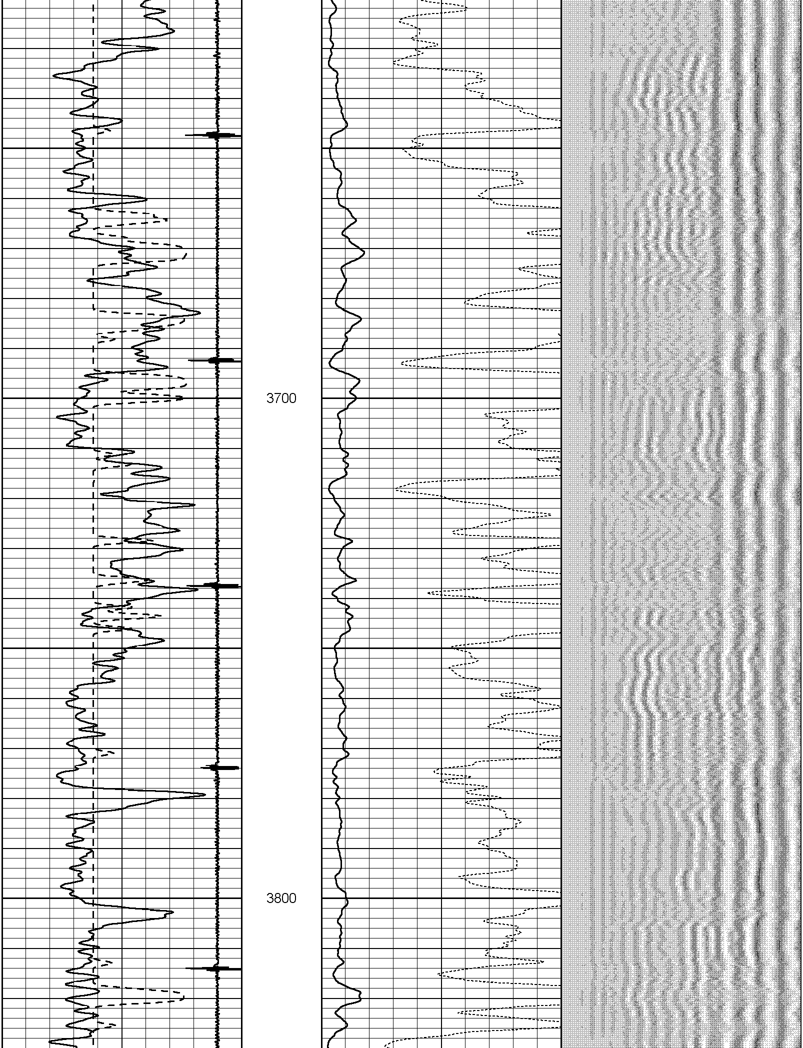


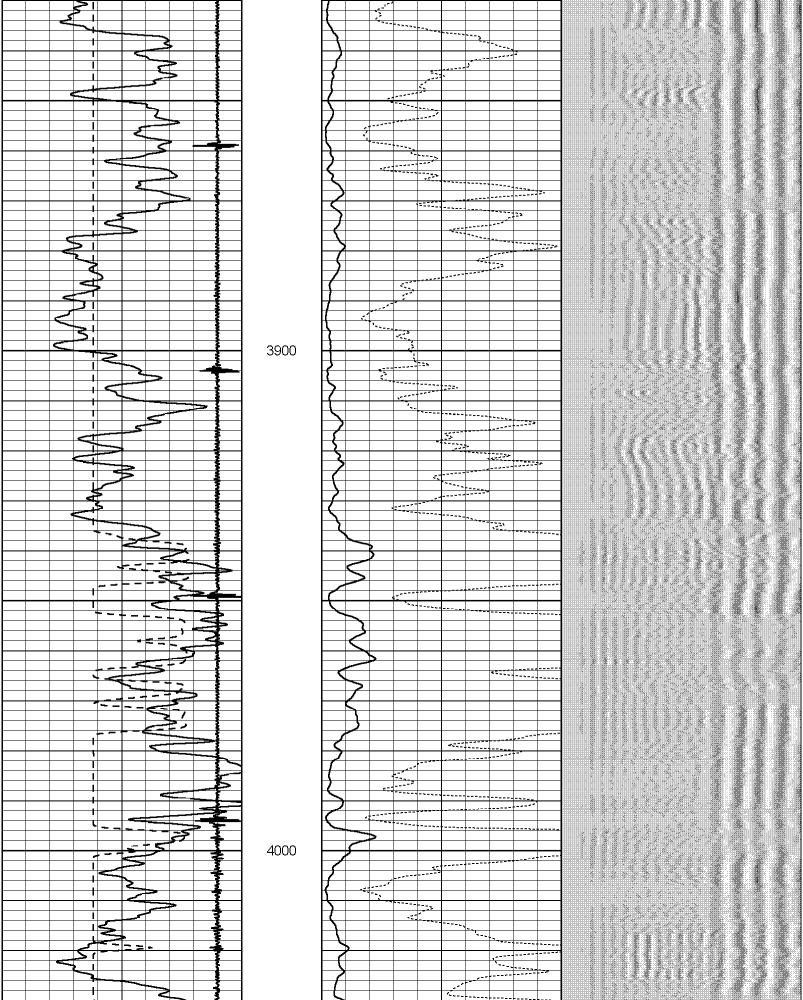


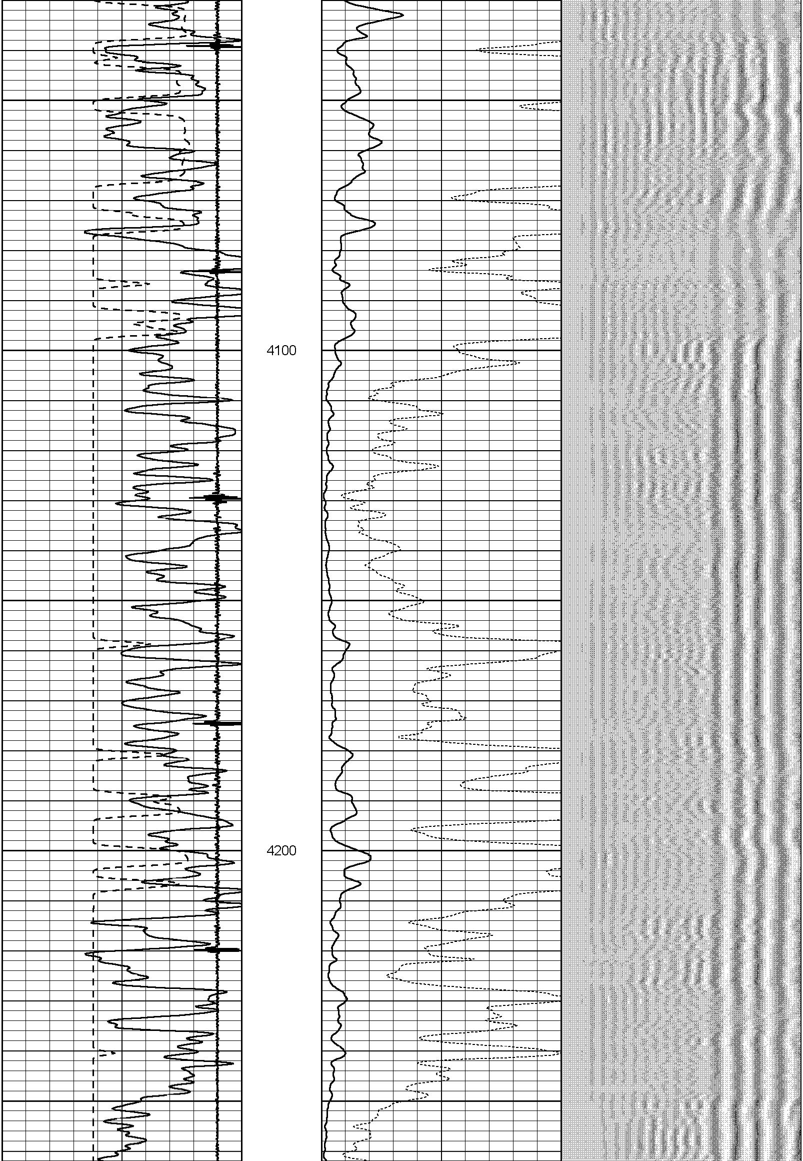


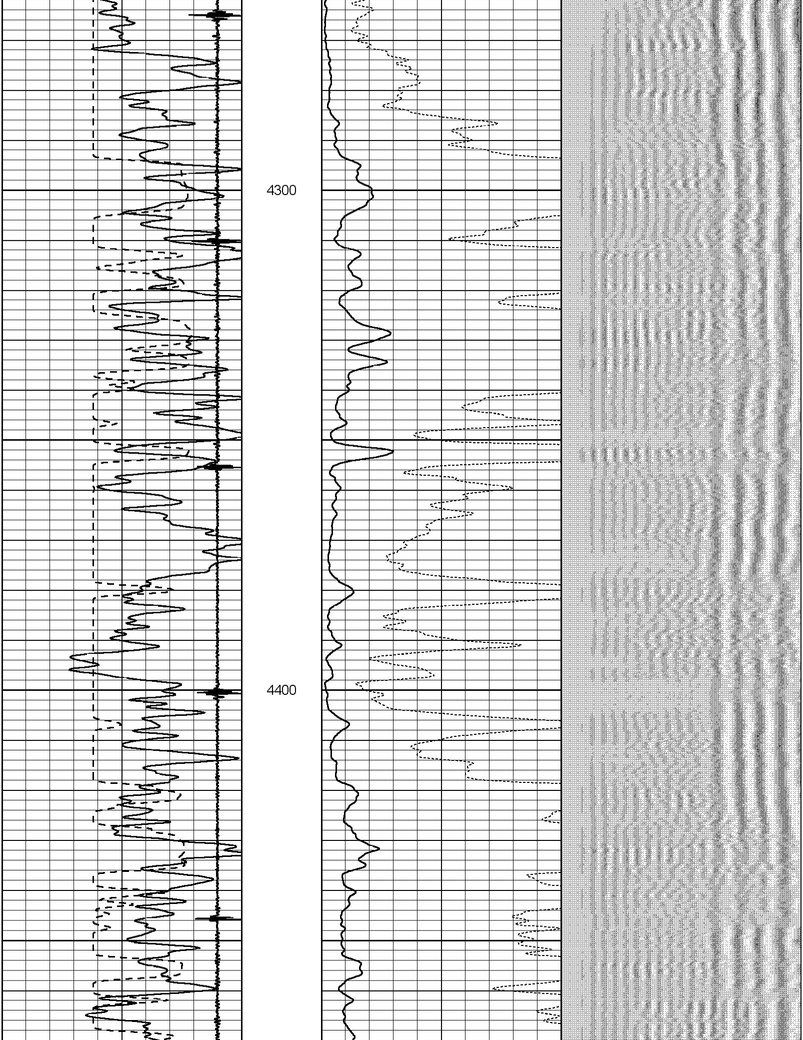


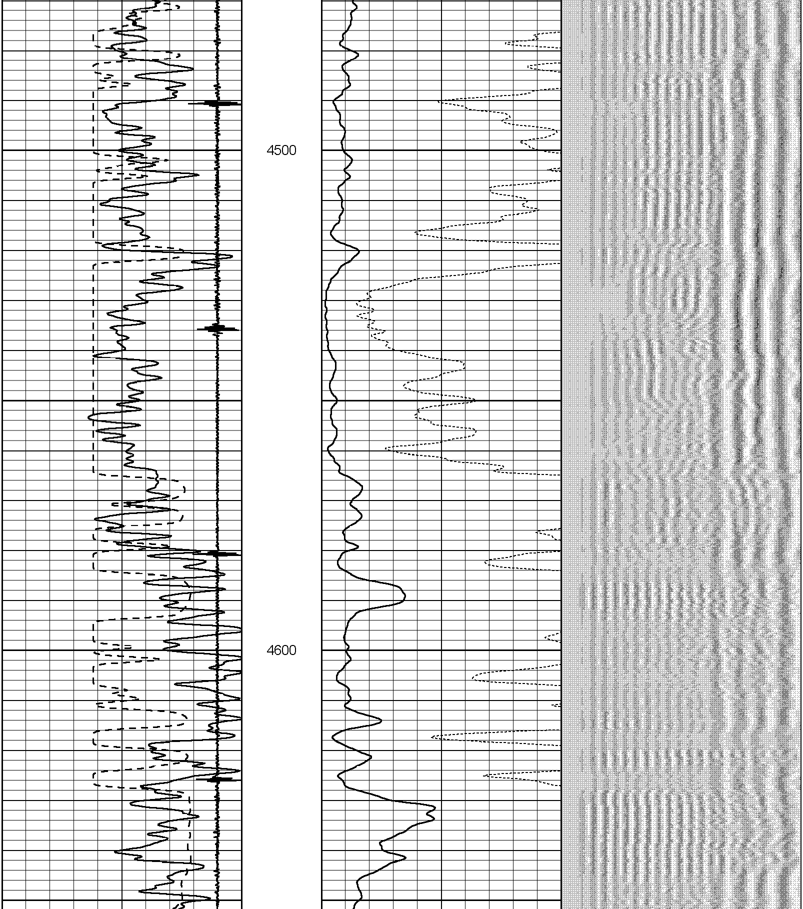












Service Ticket No. 6033750 API No. 05-045-15735 PGM Ver Warrior 7.0

The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client

EQUIPMENT DATA

Gamma Ray		Collar Locator		Sonics			
Run No.	One	Run No.	One	Run No.	One	Run No.	
Serial No.	061015	Serial No.	061015	Serial No.	061490	Serial No.	
Model No.	Probe_Gr	Model No.	Probe_CCL	Model No.	Probe_Sonics	Model No.	
Diameter	2.75	Diameter	2.75	Diameter	2.75	Diameter	

LOGGING DATA

General Data

Pass	Depths		Well Head	Speed	Logging Run Comments
No.	From	To	Pressure	Ft/Min	
One	7210	6938	0 PSI	75	Repeat Pass
Two	7210	2100	0 PSI	75	Main Pass

	Gamma Ray		CCL		Amplitude		MSG	
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
One	0	200	9	-1	0	100	200	1200

DIRECTIONAL INFORMATION

Maximum Deviation		deg. @		KOP		

Log Variables

Database:C:\Warrior\Data\bb_ggu_rod_41a_31_691_cbl.db
Dataset: field/well/run1/pass6

Top - Bottom

PPT usec	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF
0	0	1	0.8	4.5	0	0	100

BOREID in
7.875

Calibration Report

Database File: bb_ggu_rod_41a_31_691_cbl.db
Dataset Pathname: pass5
Dataset Creation: Sat Jul 19 12:09:15 2008 by Log Halliburton Casedho

Temperature Calibration Report

Serial Number: CSS1011
Tool Model: CSSMRAD
Performed: Thu Feb 07 09:37:01 2002

	Reference	Reading
Low Reference:	30.00 degF	35.00 cps
High Reference:	100.00 degF	100.00 cps

Gain: 1.80
Offset: 32.00
Delta Spacing 1

Gamma Ray Calibration Report

Serial Number: 061015
Tool Model: Probe
Performed: Sun Jun 13 13:33:21 1993

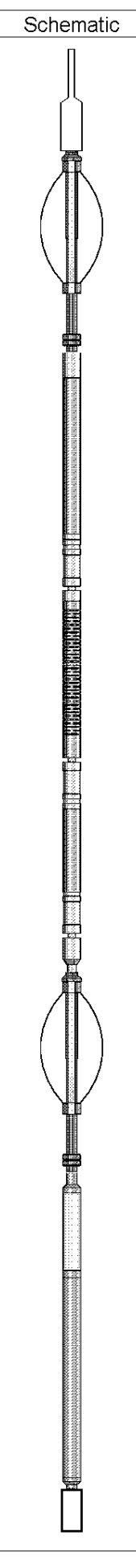
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number: 061490
Tool Model: Probe
Performed: Fri Jul 18 08:04:43 2008

Depth: 929.372 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	1	1	mV
Calibrated Amplitude:	82	82	mV
Reading at Signal Zero:	0.0685791	0.0672119	V
Reading in Free Pipe:	0.250854	0.246094	V
Gain:	444.383	452.813	
Offset:	-29.4754	-29.4344	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STND_CH 1.4375 IN CABLE HEAD	1.50	1.44	1.00
			CENT-Probe (PT_MONO2)	2.88	2.75	35.00
WVF3 WVF5	12.24 11.24		CBL-Probe (061490) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
			CENT-Probe (PT_MONO2)	2.88	2.75	35.00
CCL	4.54					
GR	3.17		GR-Probe (061015) Probe 2.75" 4 Channel Pulse	4.54	2.75	30.00
TEMP LLMTEN	0.21 0.00		TEMP-CSSMRAD (CSS1011) Computer Sonics CSSM Radial Temperature	0.63	3.13	30.00

Dataset: bb_ggu_rod_41a_31_691_cbl.db: field/well/run1/pass5
Total Length: 21.35 ft
Total Weight: 191.00 lb
O.D. 3.13 in

Company Bill Barrett Corporation
Well GGU Roderick 41A-31-691
Field Gibson Gulch
County GARFIELD State CO

HALLIBURTON

ACOUSTIC CEMENT BOND LOG