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

HALLIBURTON

ACOUSTIC CEMENT BOND LOG

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

API No.: 05-045-15730 Serv #: 6033734
Location: SHL: 828' FNL & 1592' FEL
BHL: 1225' FNL & 1661' FEL
Sec: 31 Twp: 6S Rge: 91W

Other Services
N/A

Permanent Datum GROUND LEVEL Elevation 5928
Log Measured From KB , 15 Ft. above perm. datum
Drilling Measured From KB

Elevation
K.B. 5943
D.F. 5942
G.L. 5928

Date @ Time Logged	18 July 2008 @ 1030	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.4 PPG
Depth - Driller	7144	Fluid Level	Surface
Depth - Logger	7020	Cement Top Est. Logged	2490
Bottom - Logged Interval	7020	Equipment / Location	10988010 / GJ
Top - Log Interval	2300	Recorded by	J. Folkers
Max. Recorded Temp.	N/A	Witnessed by	N/A

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	8.750	792	4222	9.625	36	SURFACE	792
TWO	7.875	4222	7133	4.5	11.6	SURFACE	7133

<<< 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: June 27,2008

SHORT JOINT: 6677 to 6700 & 4934 to 4956.
YOUR CREW TODAY: M. SHEA & A. KOLENUT

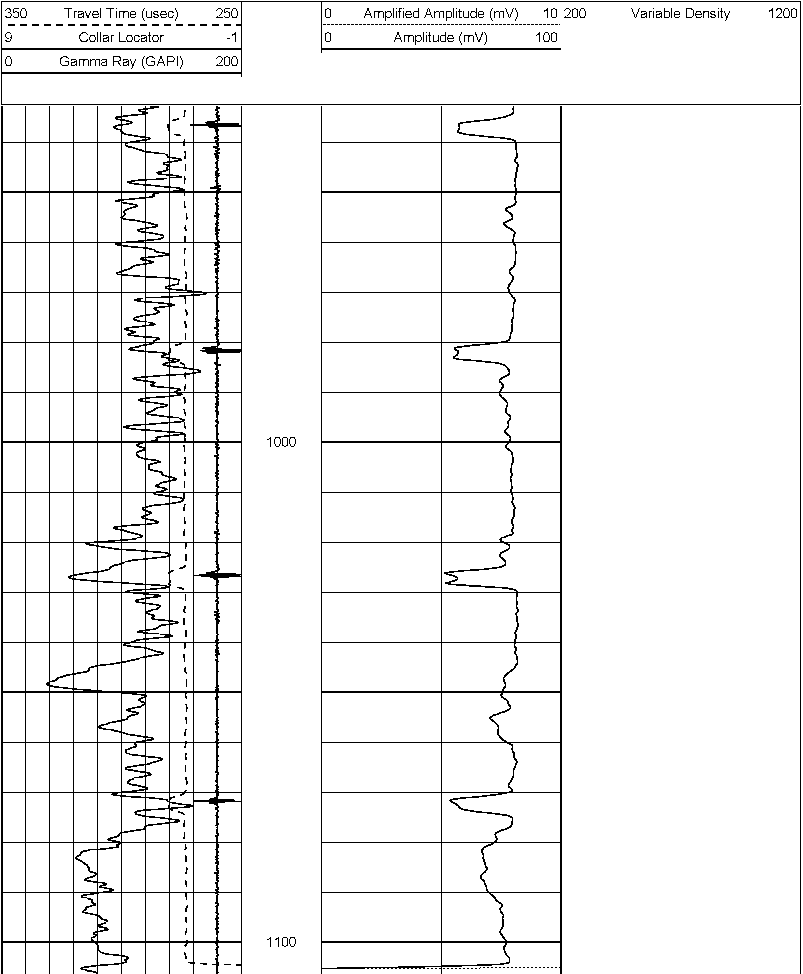
****THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES; GRAND JUNCTION, CO****
****(970) 523 - 3600****

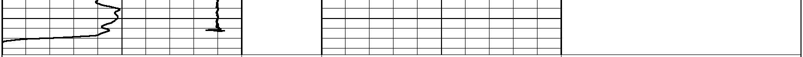
HALLIBURTON

Free Pipe Pass

5" = 100'

Database File: bb_ggu_rod_31a_31_691_cbl.db
Dataset Pathname: pass2
Presentation Format: josh cbl
Dataset Creation: Fri Jul 18 10:23:33 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

Repeat Pass

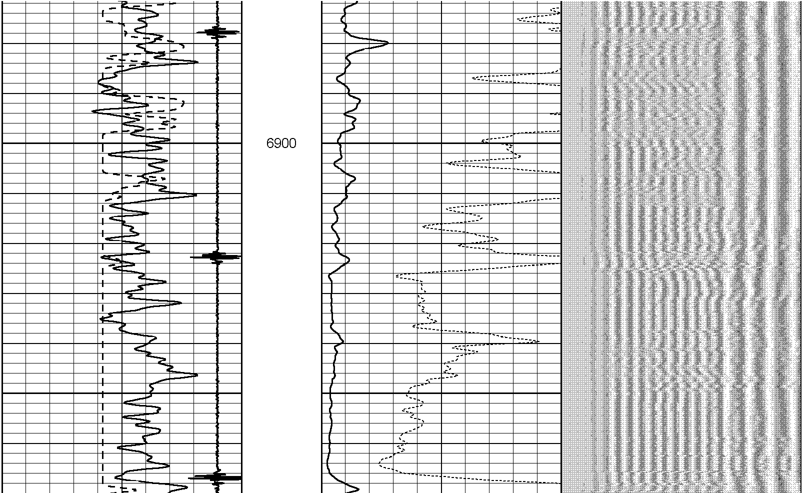
5" = 100'

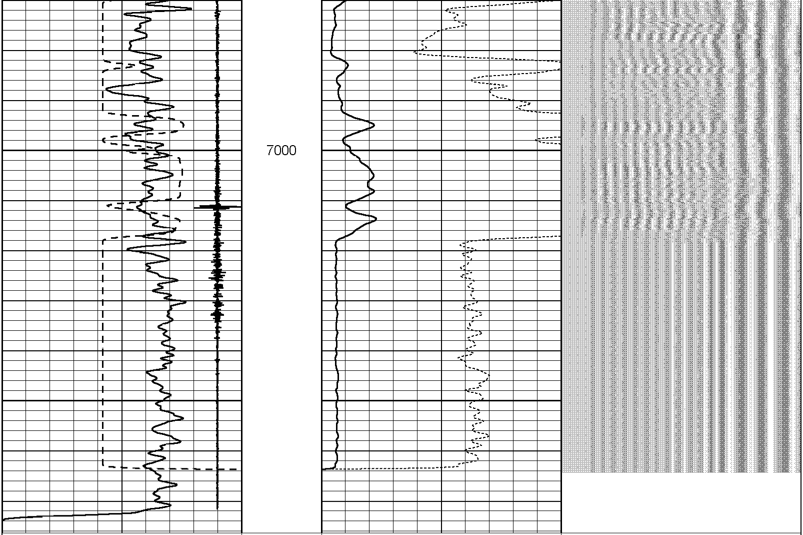
Database File: bb_ggu_rod_31a_31_691_cbl.db
Dataset Pathname: pass3
Presentation Format: josh cbl
Dataset Creation: Fri Jul 18 10:54:56 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

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





Travel Time / Collar Locator / Gamma Ray	Amplitude	Variable Density
350 Travel Time (usec) 250	0 Amplified Amplitude (mV) 10	200 Variable Density 1200
9 Collar Locator -1	0 Amplitude (mV) 100	
0 Gamma Ray (GAPI) 200		

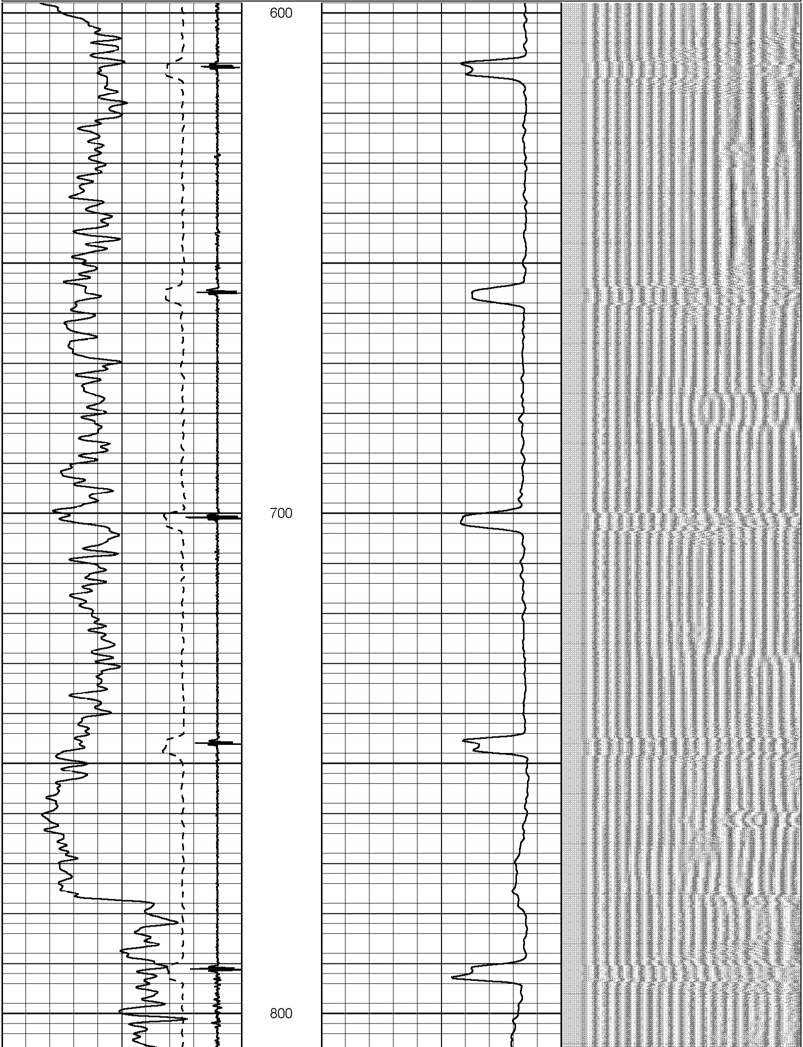
HALLIBURTON

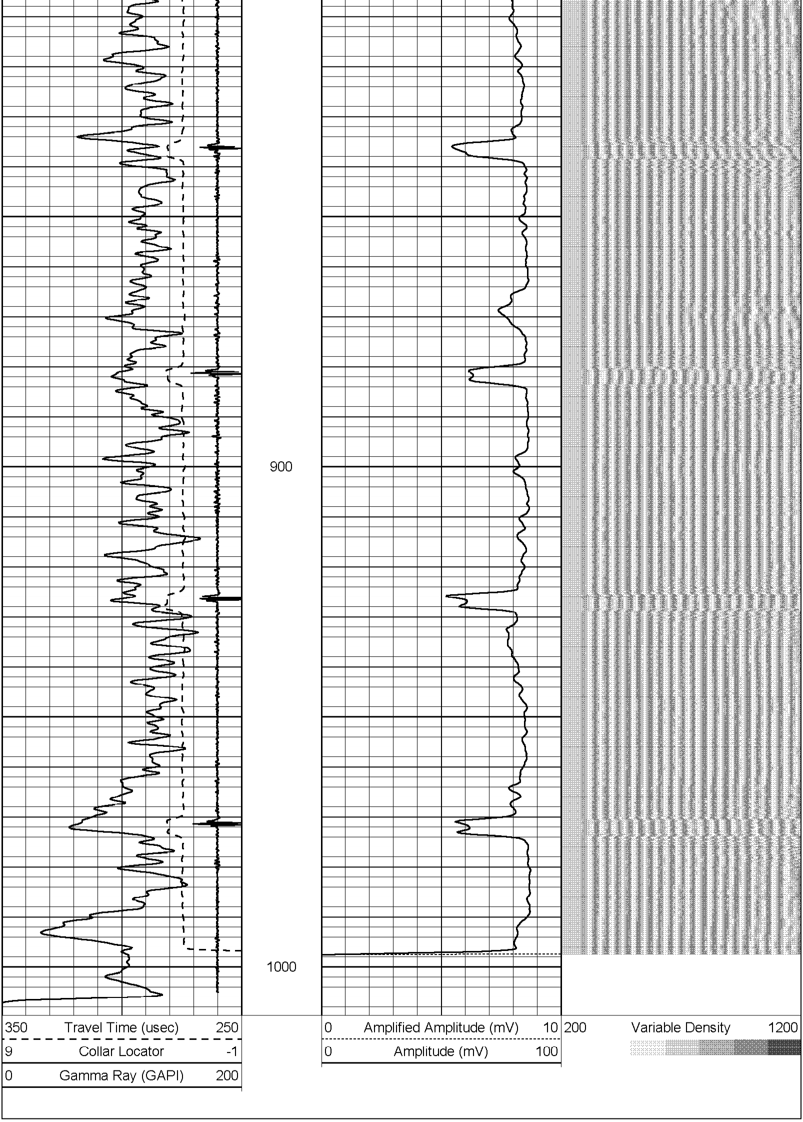
Surface Casing Pass

5" = 100'

Database File: bb_ggu_rod_31a_31_691_cbl.db
Dataset Pathname: pass5
Presentation Format: josh cbl
Dataset Creation: Fri Jul 18 12:13:14 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

Travel Time / Collar Locator / Gamma Ray	Amplitude	Variable Density
350 Travel Time (usec) 250	0 Amplified Amplitude (mV) 10	200 Variable Density 1200
9 Collar Locator -1	0 Amplitude (mV) 100	
0 Gamma Ray (GAPI) 200		





HALLIBURTON

Main Pass

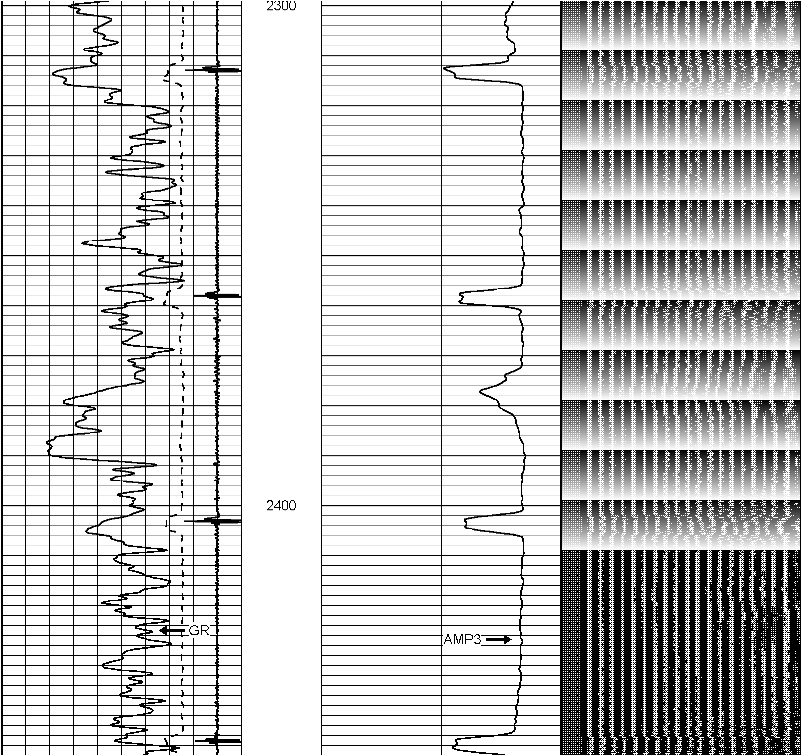
5" = 100'

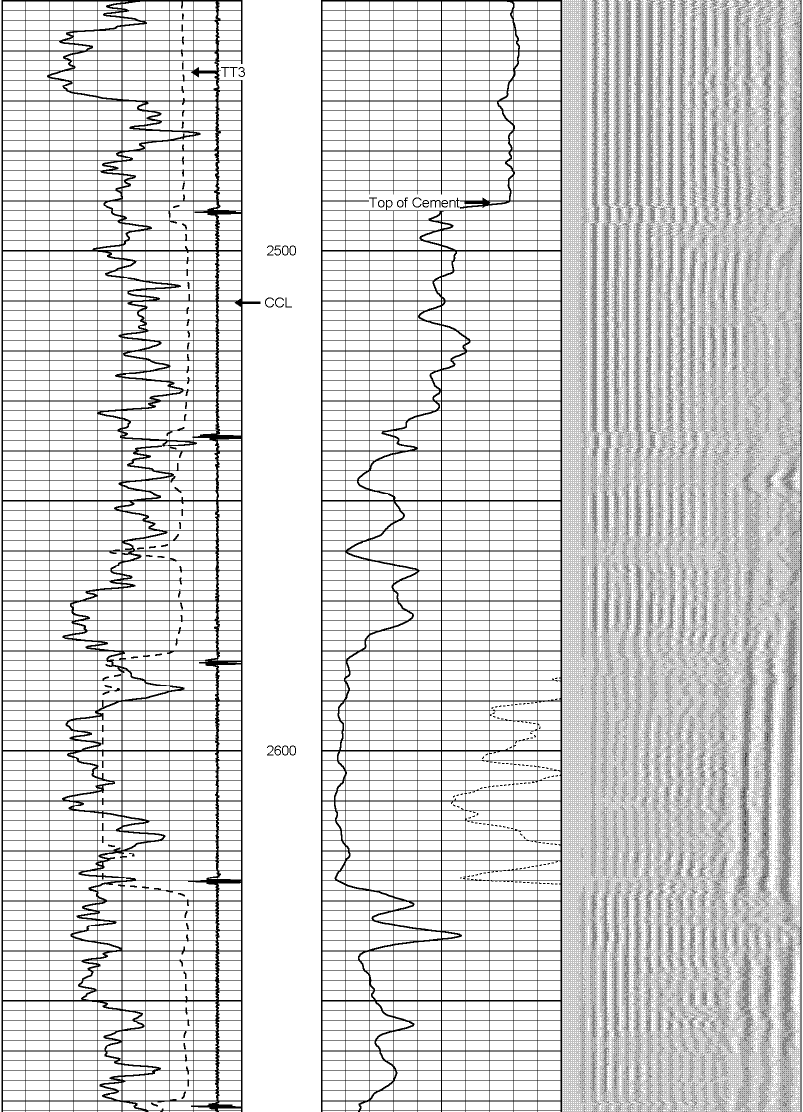
Database File: bb_ggu_rod_31a_31_691_cbl.db
Dataset Pathname: pass4
Presentation Format: josh cbl
Dataset Creation: Fri Jul 18 11:06:39 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

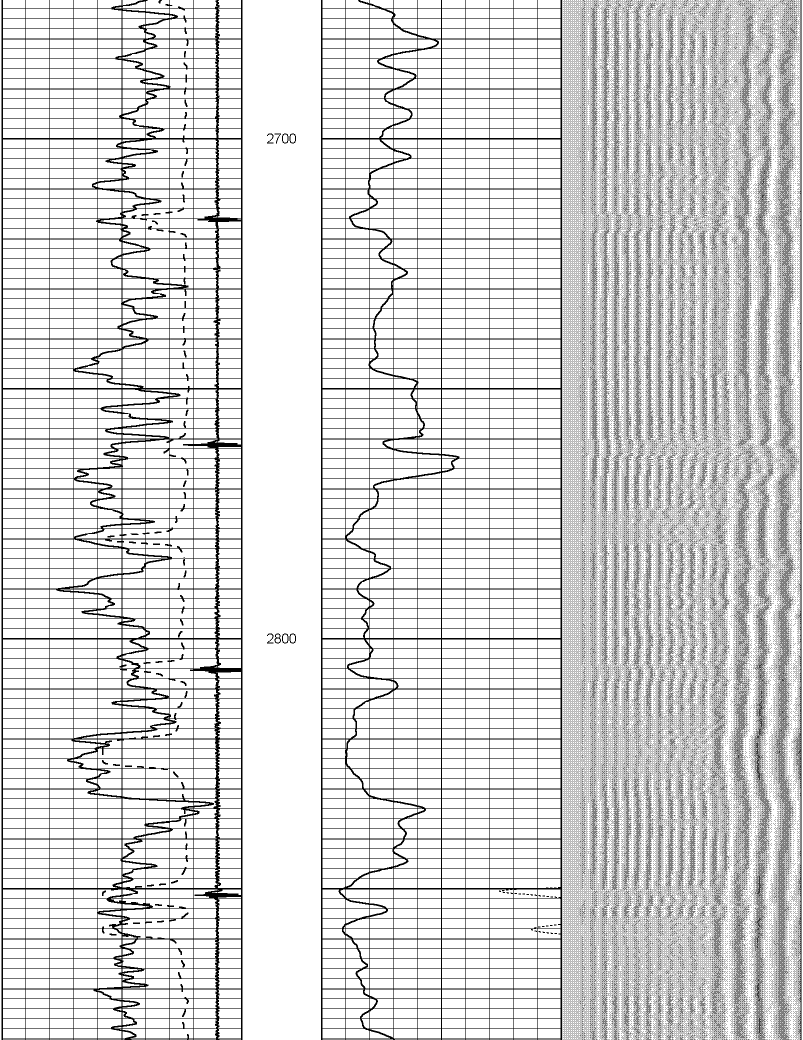
350	Travel Time (usec)	250
9	Collar Locator	-1
0	Gamma Ray (GAPI)	200

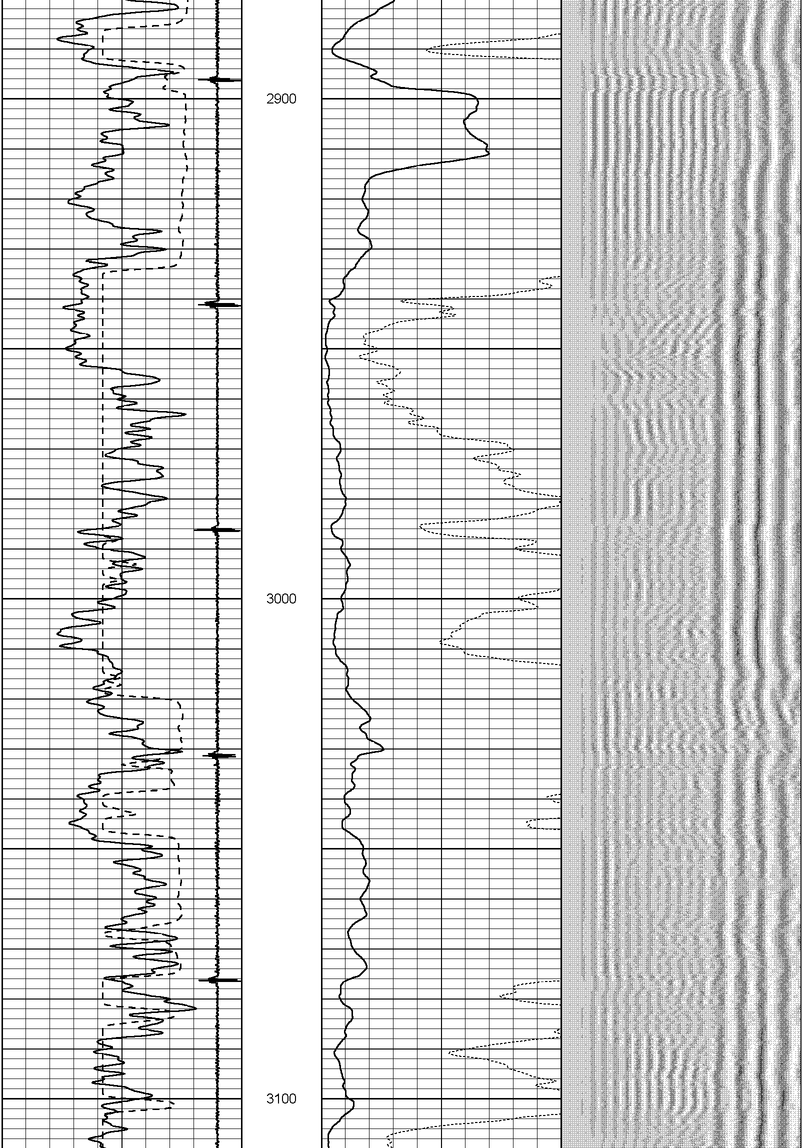
0	Amplified Amplitude (mV)	10
0	Amplitude (mV)	100

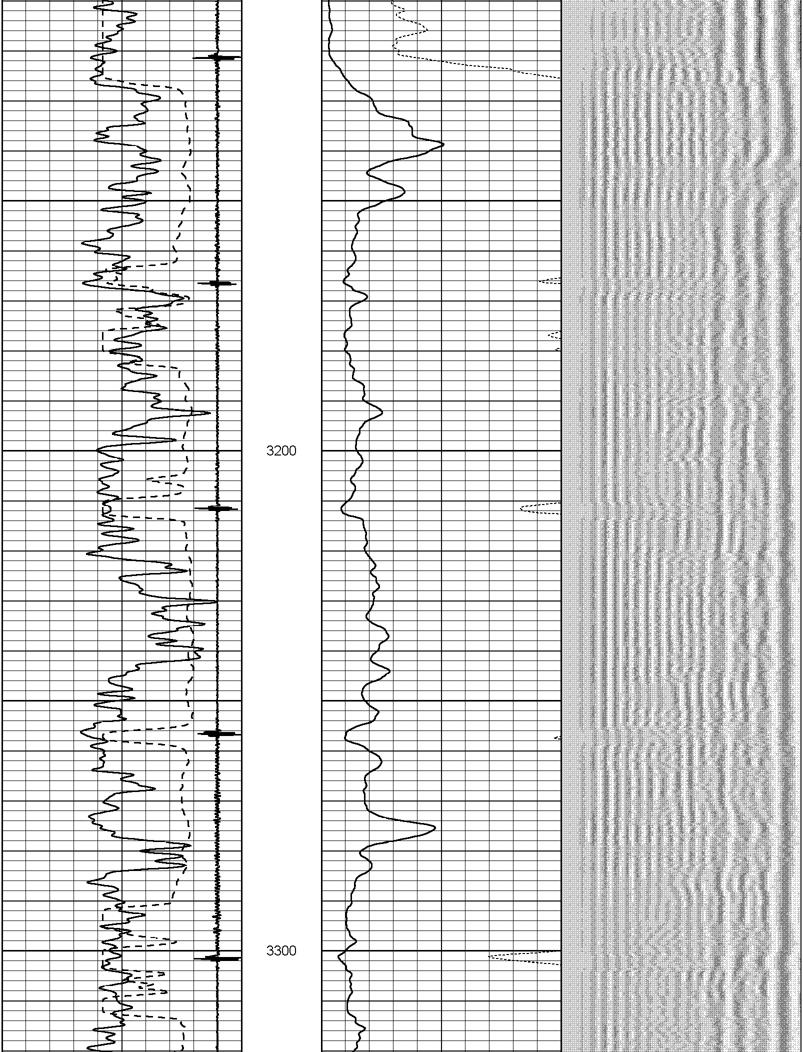
200	Variable Density	1200

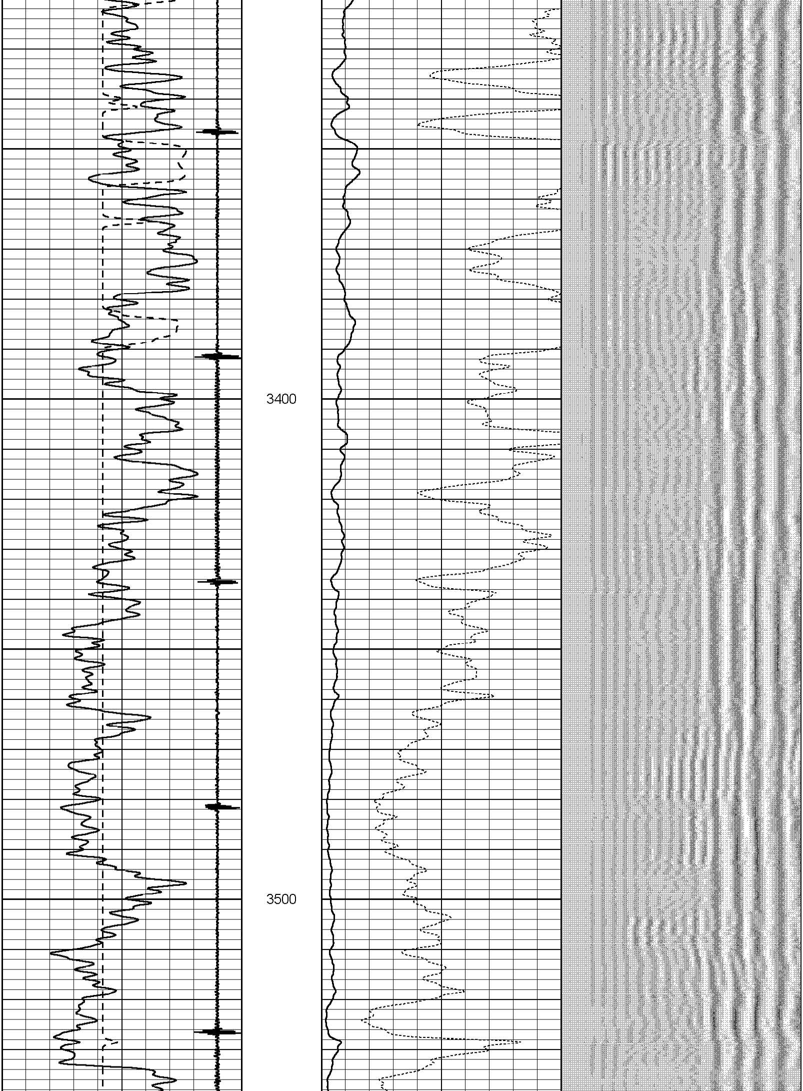


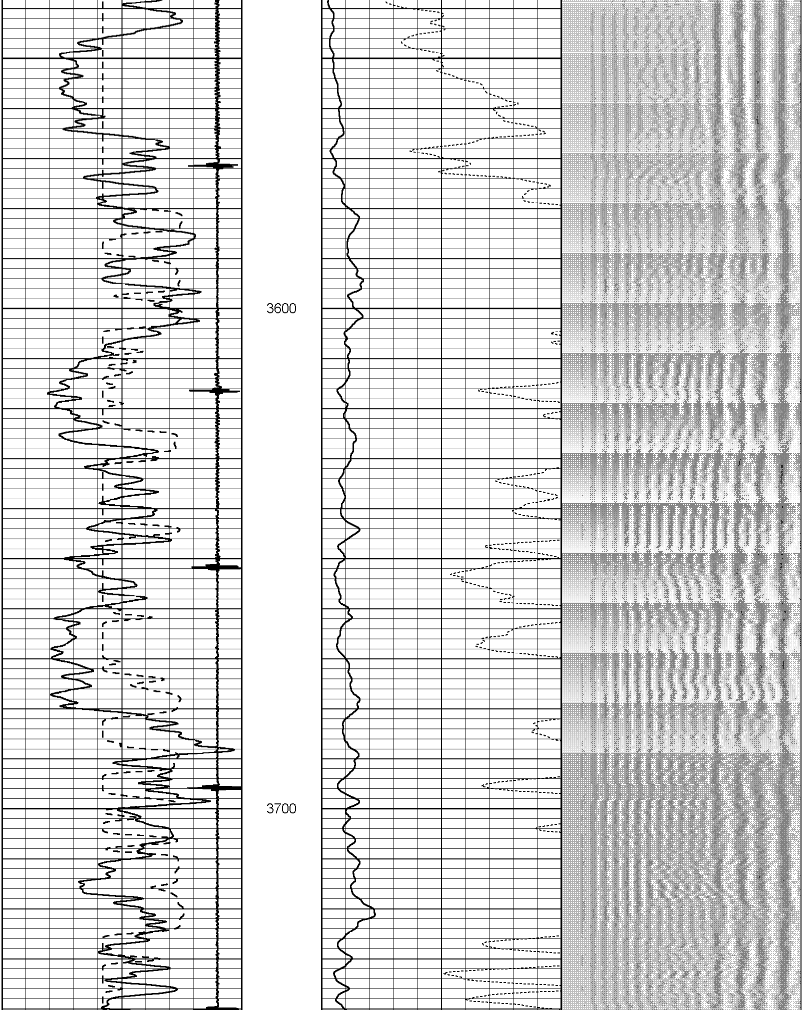


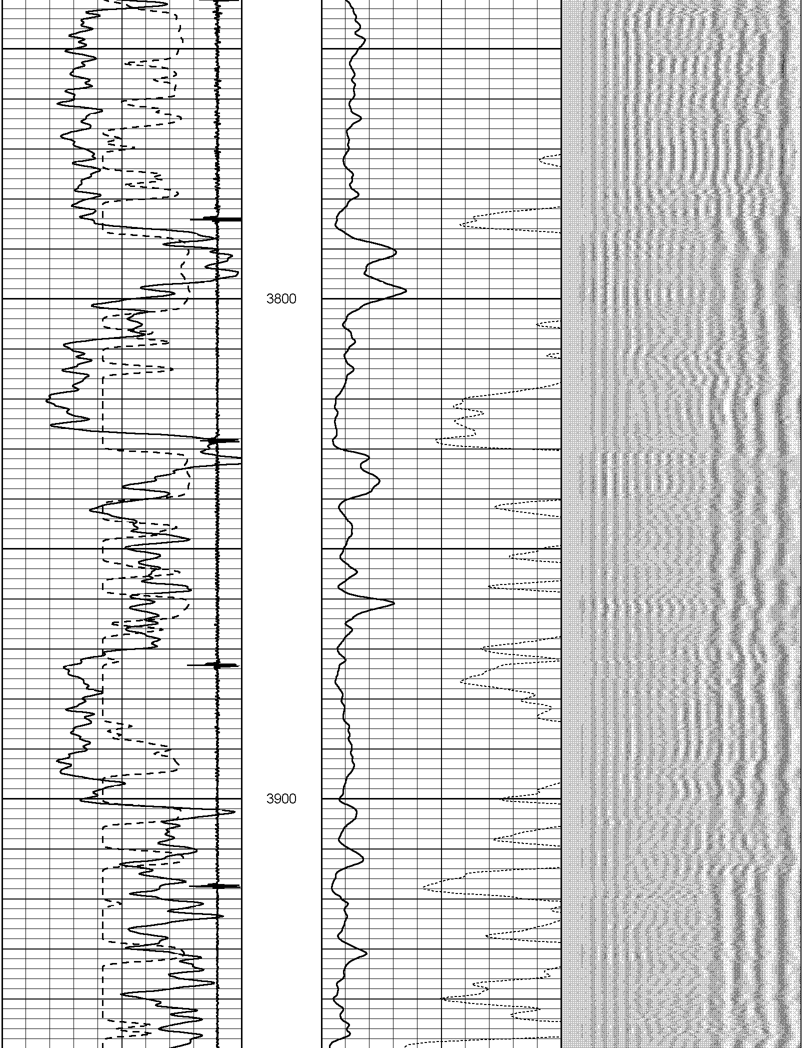


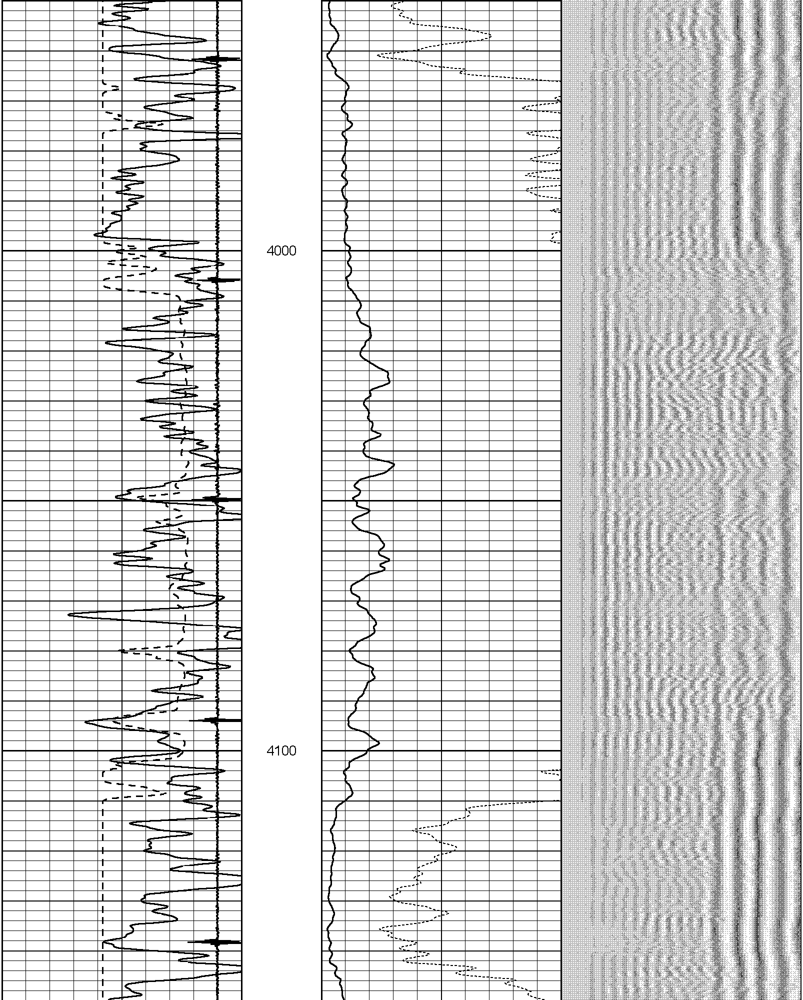


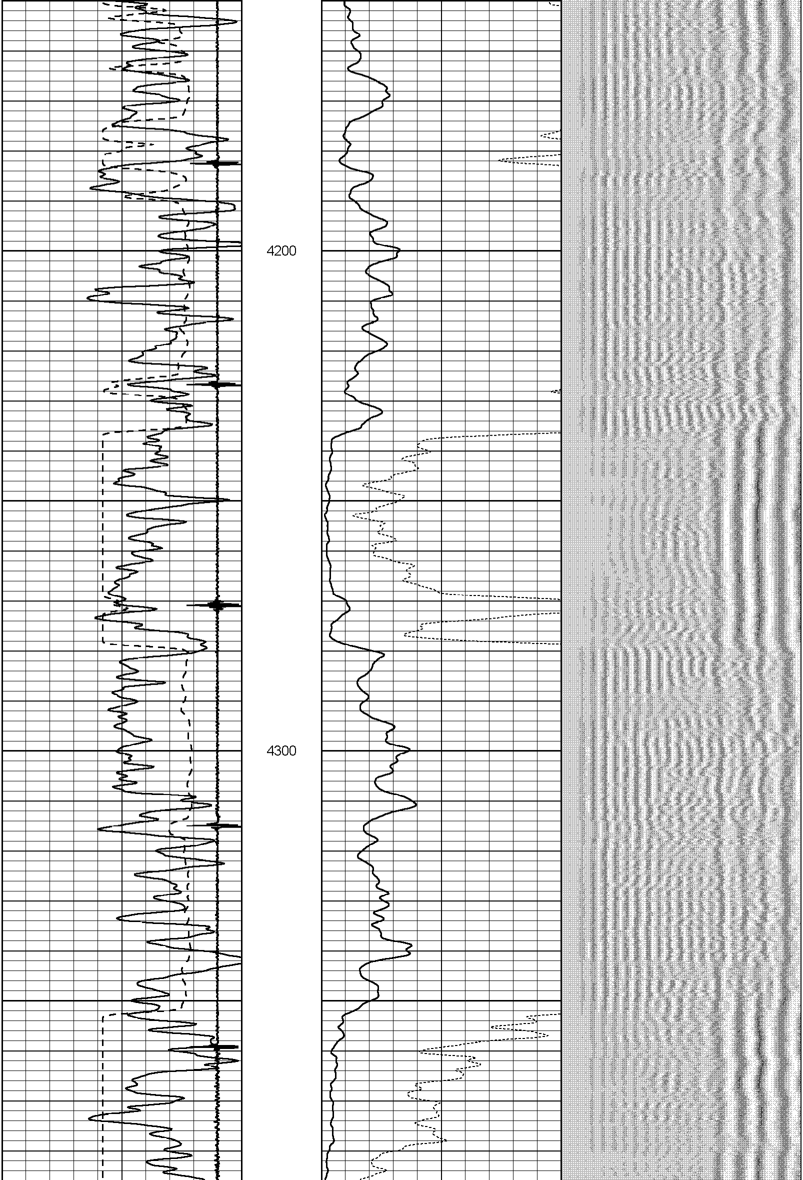


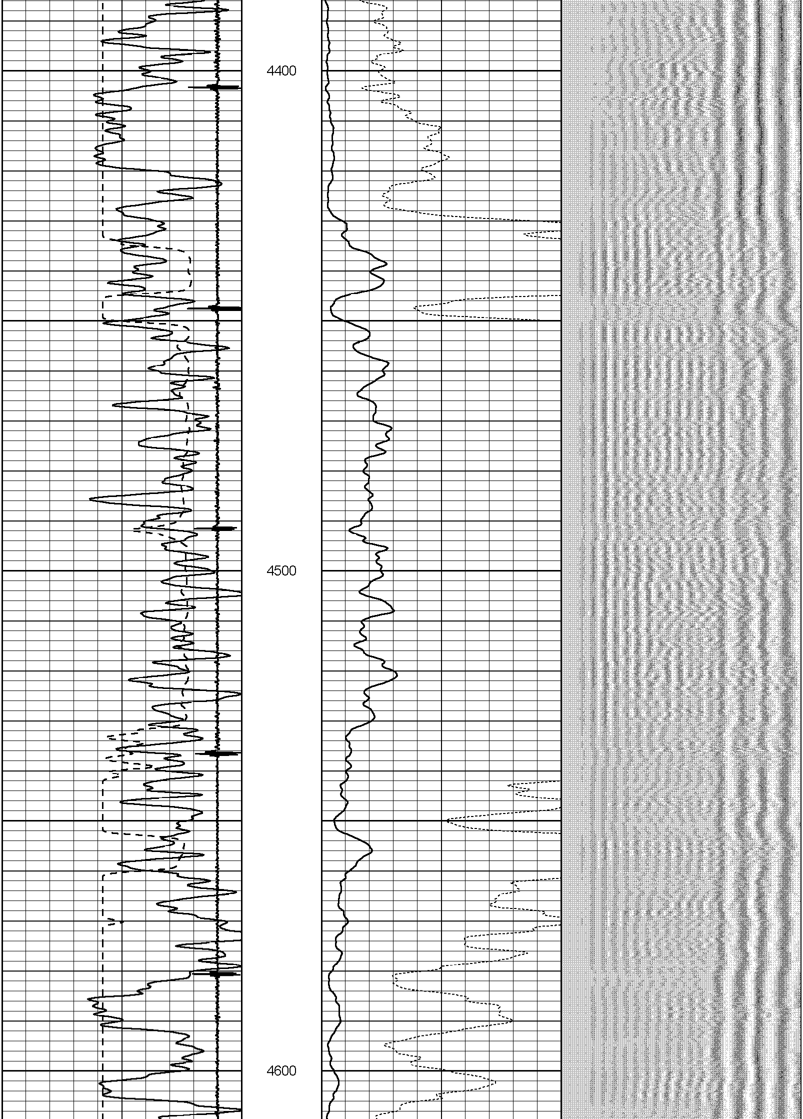


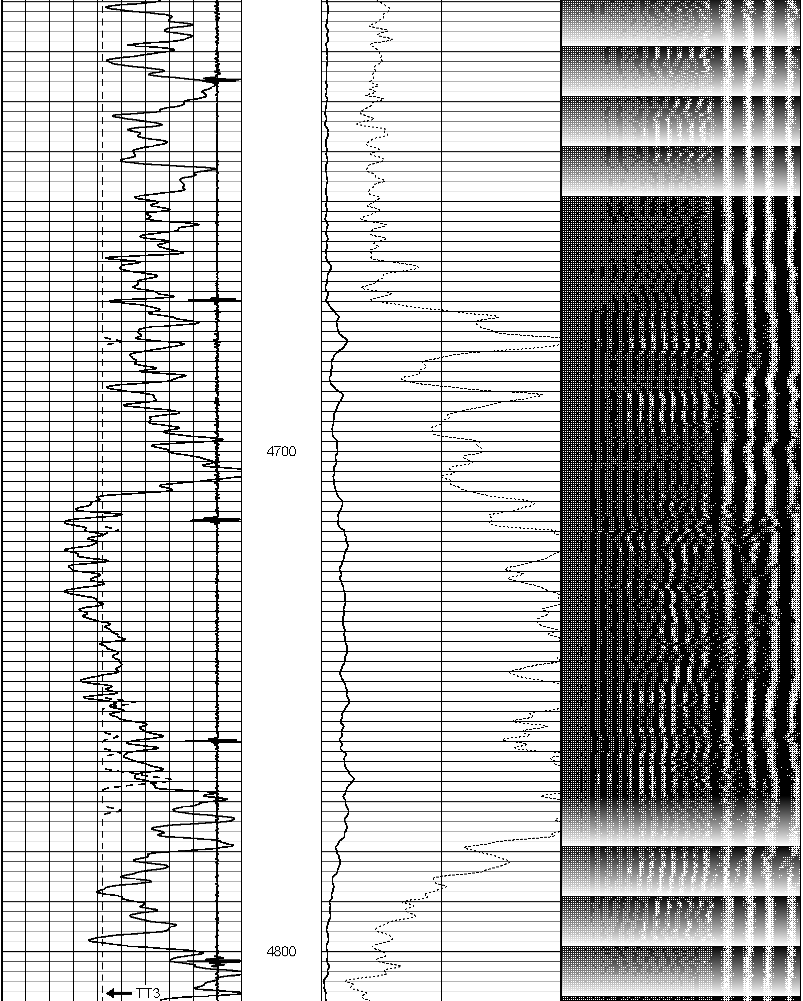


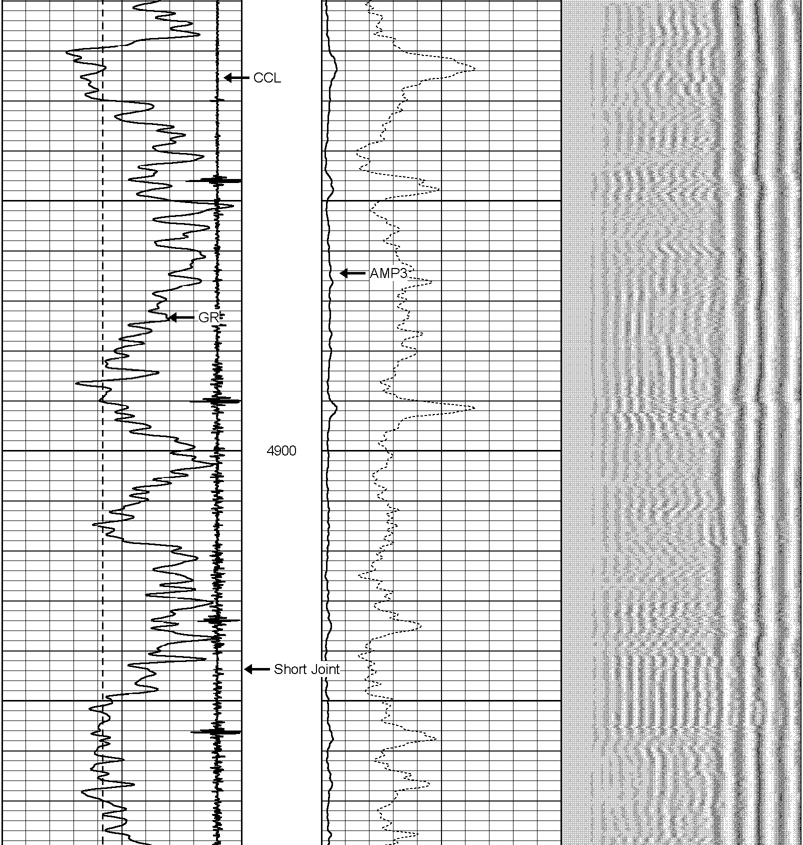












Service Ticket No. 6033750 API No. 05-045-15733 PGM Ver Warrior 7.0

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 No.	Depths From	Depths To	Well Head Pressure	Speed Ft/Min	Logging Run Comments
One	7020	6870	0 PSI	75	Repeat Pass
Two	7020	2300	o PSI	75	Main Pass

Pass	Gamma Ray Scale		CCL Scale		Amplitude Scale		MSG 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_31a_31_691_cbl.db
Dataset: field/well/run1/pass4

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_31a_31_691_cbl.db
Dataset Pathname: pass4
Dataset Creation: Fri Jul 18 11:06:39 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

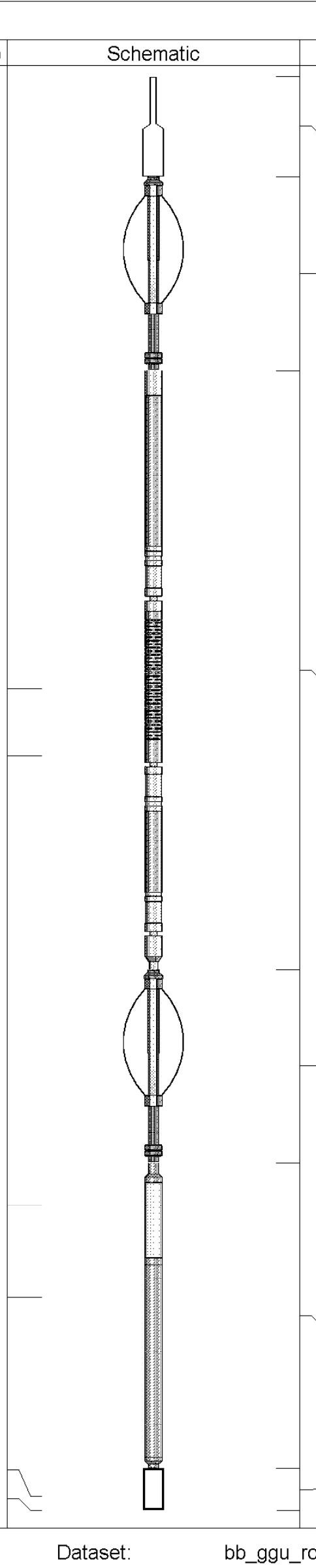
Sensitivity: 1.0000 GAPI/cps

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 GR	4.54 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_31a_31_691_cbl.db: field/well/run1/pass4
Total Length: 21.35 ft
Total Weight: 191.00 lb
O.D. 3.13 in

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

HALLIBURTON

ACOUSTIC CEMENT
BOND LOG