HALLIBURTON

ACOUSTIC CEMENT BOND LOG

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

Company Bill Barrett Corporation
Well GGU Roderick 41C-31-691
Field Gibson Gulch
County GARFIELD State CO
API No.: 05-045-15736 Serv #: 6033732
Location: SHL: 828' FNL & 1576' FEL
Other Services
N/A
Sec: 31 Twp: 6S Rge: 91W

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

Date @ Time Logged	19 July 2008 @ 0700	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.4 PPG
Depth - Driller	7250	Fluid Level	Surface
Depth - Logger	7148	Cement Top Est. Logged	2650
Bottom - Logged Interval	7148	Equipment / Location	10988010 / GJ
Top - Log Interval	2450	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.	/	/	/	/

Run Number	Borehole Record Bit	From	To	Casing & Tubing Record Size	Weight	From	To
ONE	8.750	800	4107	9.625	36	SURFACE	800
TWO	7.880	4107	7250	4.5	11.6	800	7250

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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 16,2008

SHORT JOINT: 6809 to 6831 & 5071 to 5093.
YOUR CREW TODAY: M. SHEA & A. Kodah

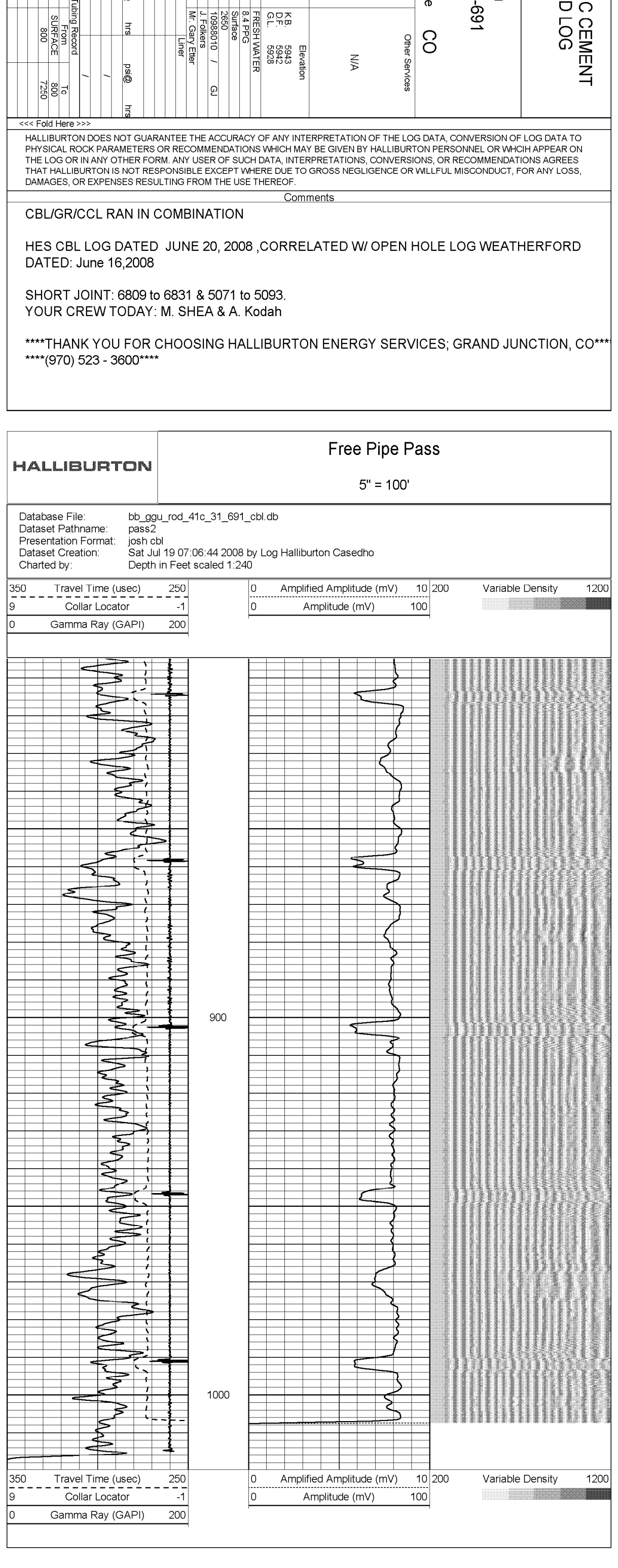
****THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES; GRAND JUNCTION, CO****
****(970) 523 - 3600****

HALLIBURTON

Free Pipe Pass

5" = 100'

Database File: bb_ggu_rod_41c_31_691_cbl.db
Dataset Pathname: pass2
Presentation Format: josh cbl
Dataset Creation: Sat Jul 19 07:06:44 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240



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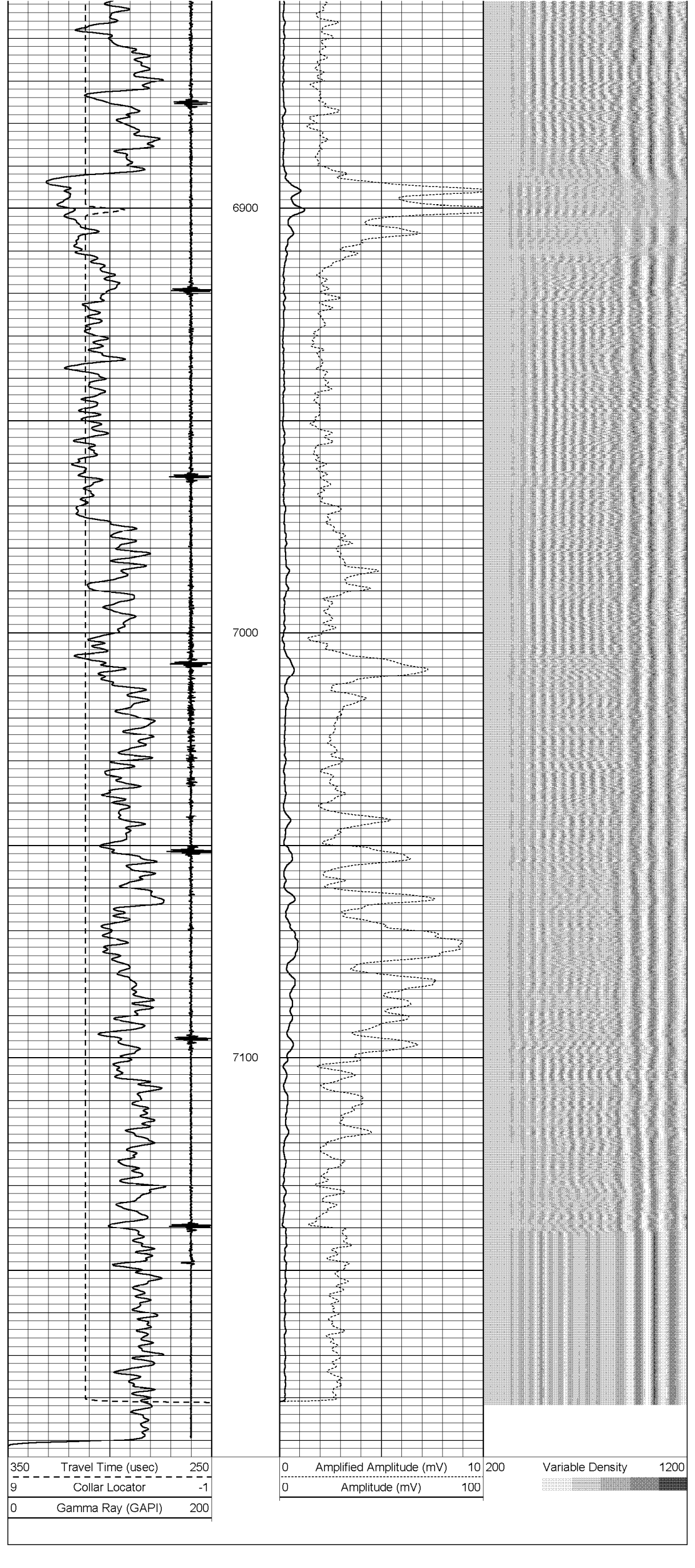
Repeat Pass

5" = 100'

Database File: bb_ggu_rod_41c_31_691_cbl.db
Dataset Pathname: pass4
Presentation Format: josh cbl
Dataset Creation: Sat Jul 19 07:37:18 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240



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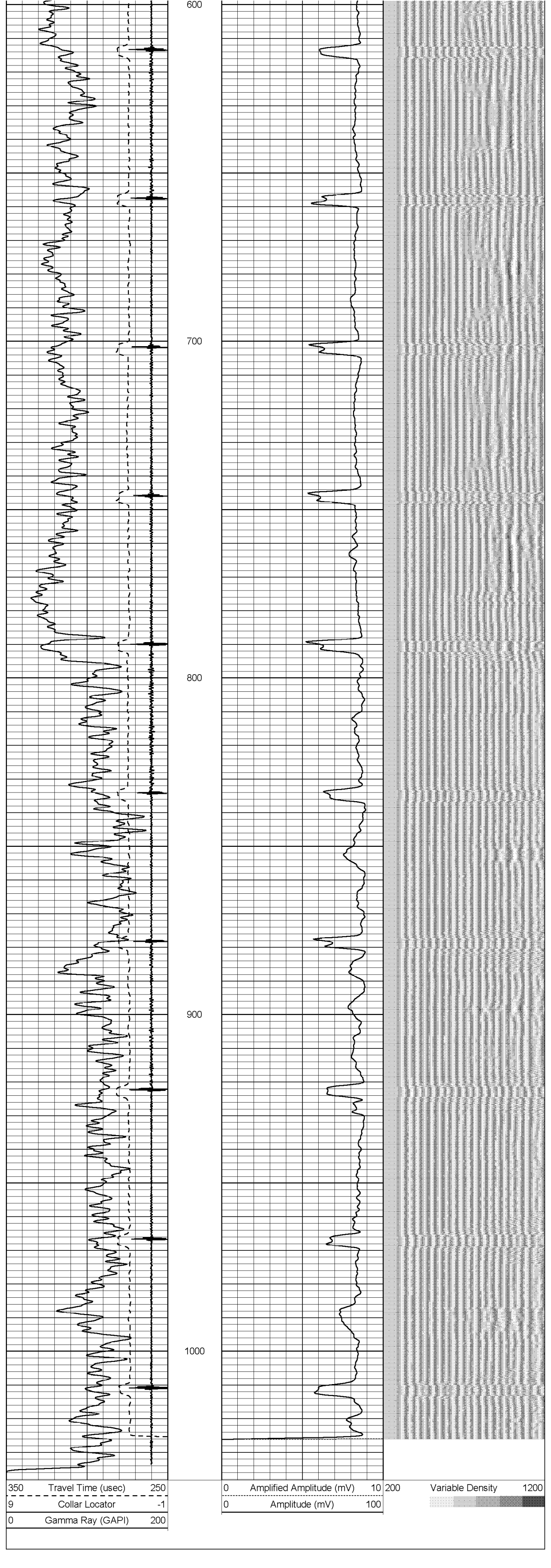
Surface Casing Pass

5" = 100'

Database File: bb_ggu_rod_41c_31_691_cbl.db
Dataset Pathname: pass6
Presentation Format: josh cbl
Dataset Creation: Sat Jul 19 08:50:38 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240



HALLIBURTON

Main Pass

5" = 100'

Database File: bb_ggu_rod_41c_31_691_cbl.db
Dataset Pathname: pass5
Presentation Format: josh cbl
Dataset Creation: Sat Jul 19 07:46:45 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

Service Ticket No.	6033750	API No.	05-045-15736	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	7148	6850	0 PSI	75	Repeat Pass
Two	7020	2450	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_41c_31_691_cbl.db
Dataset: field/well/run1/pass5

Top - Bottom

PPT usec	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF
0	0	1	0.8	5.5	0	0	100

BOREID in
7.875

Calibration Report

Database File: bb_ggu_rod_41c_31_691_cbl.db
Dataset Pathname: pass5
Dataset Creation: Sat Jul 19 07:46:45 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

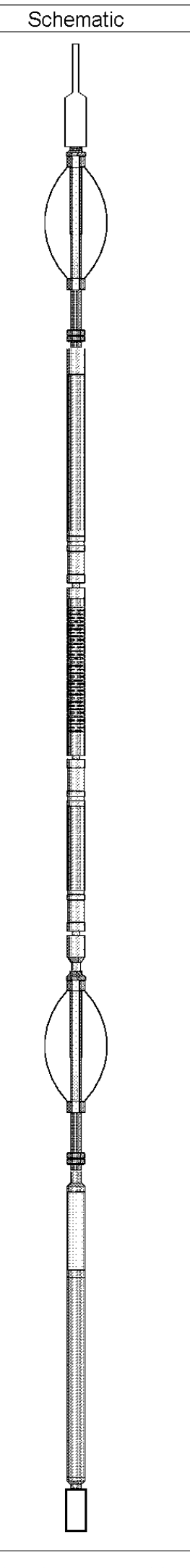
Sensitivity: 1.0000 GAPI/cps

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)	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_41c_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 41C-31-691		
Field	Gibson Gulch		
County	GARFIELD	State	CO
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