HALLIBURTON

ACOUSTIC CEMENT BOND LOG

Company	BILL BARRETT CORPORATION
Well	SNYDER 34C-26-692
Field	MAMM CREEK
County	GARFIELD State COLORADO

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Well SNYDER 34C-26-692
Field MAMM CREEK
County GARFIELD State COLORADO
API No.: 05045149140 Serv #: 5747606
Location: SURFACE: 1069' FSL & 2494' FEL
BOTTOM: 0819' FSL & 1993' FEL

Other Services
RMTE

Sec: 26 Twp: 06S Rge: 92W

Permanent Datum	GROUND LEVEL	Elevation	5908'	Elevation
Log Measured From	K.B. , 13 Ft. above perm. datum			K.B. 5921'
Drilling Measured From	K.B.			D.F. 5920' G.L. 5908'

Date @ Time Logged	03-13-2008 @ 1100	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.34#
Depth - Driller	7200'	Fluid Level	FULL
Depth - Logger	7164'	Cement Top Est. Logged	4500'
Bottom - Logged Interval	7164'	Equipment / Location	10389647 / G.J.
Top - Log Interval	4300'	Recorded by	SKJERPEN
Max. Recorded Temp.	170 F	Witnessed by	N/A

CEMENTING DATA	Surface	Protection	Production	Liner
	String	String	String	
Date / Time Cemented	N/A	N/A	N/A	N/A
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	12.25"	SURFACE	760'	9.625"	36#	SURFACE	760'
TWO	7.875"	760'	7200'	4.5"	11.6#	SURFACE	7151'

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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

CCL-GR-CBL RAN IN COMBINATION

HES OPEN HOLE LOG DATED 01-17-2008 IS PRIMARY DEPTH REFERENCE

SHORT JOINT: 6926'-6954' & 4995'-5023'

YOUR CREW TODAY: COSSEY & WRIGHT
EIT: LEE

*** THANK YOU FOR CHOOSING HES GJ, CO. 970-216-6069***

Service Ticket No. 5747606 API No. 05045149140000 PGM Ver WARRIOR 7.0

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

EQUIPMENT DATA

CBL		GR/CCL					
Run No.	ONE	Run No.	ONE	Run No.		Run No.	
Serial No.	070760	Serial No.	070841	Serial No.		Serial No.	
Model No.	PROBE	Model No.	PROBE	Model No.		Model No.	
Diameter	1.70"	Diameter	1.70"	Diameter		Diameter	

LOGGING DATA

General Data

Pass	Depths		Well Head	Speed	Logging Run Comments
No.	From	To	Pressure	Ft/Min	
ONE	7164'	4500'	0	60	MAIN LOG SECTION

	GR		CCL		AMPLITUDE		MSG	
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
ONE	0	200	-2.25	.25	0	100	200	1200

DIRECTIONAL INFORMATION

Maximum Deviation	N/A	deg. @	N/A	KOP	N/A

Log Variables

Database:C:\Warrior\Data\bb_s_34c-26-692_cbl.db
Dataset: field/well/run1/pass8

Top - Bottom

PPT usec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	CASEOD in	PERFS	TDEPTH ft
0	11.6	0	2	0.8	4.5	0	7164

BOTTEMP degF	BOREID in
170	7.875

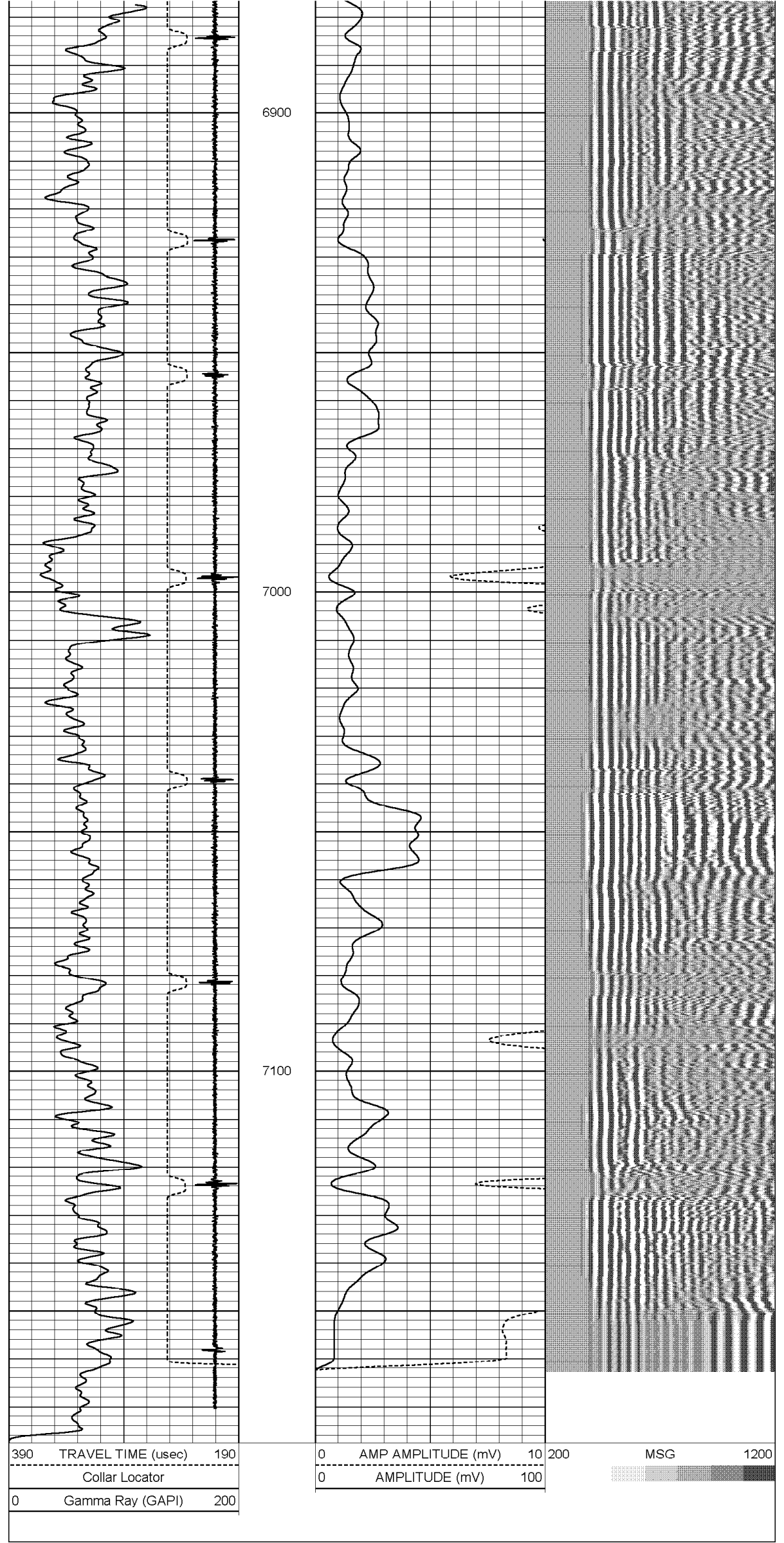
HALLIBURTON MAIN PASS 5" = 100'

Database File: bb_s_34c-26-692_cbl.db
Dataset Pathname: MAIN
Presentation Format: cbl_main
Dataset Creation: Thu Mar 13 13:40:11 2008
Charted by: Depth in Feet scaled 1:240

HALLIBURTON MAIN PASS 5" = 100'

HALLIBURTON REPEAT PASS

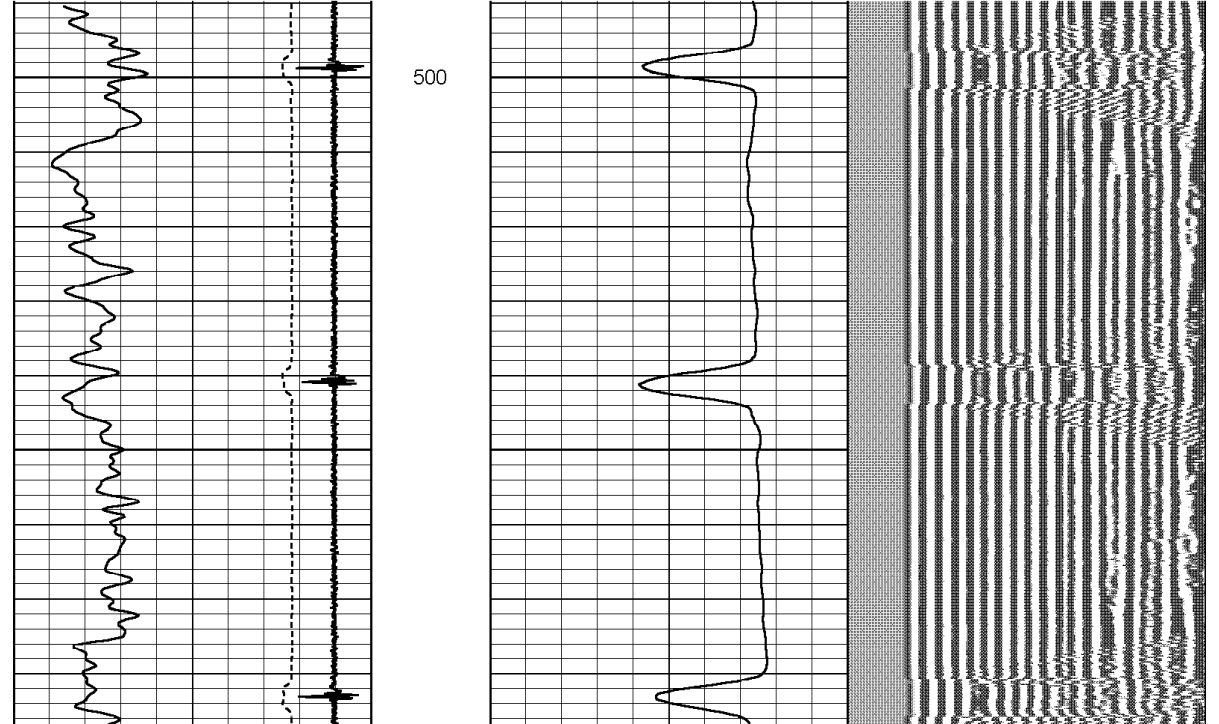
Database File: bb_s_34c-26-692_cbl.db
Dataset Pathname: pass7
Presentation Format: cbl_main
Dataset Creation: Thu Mar 13 12:46:45 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

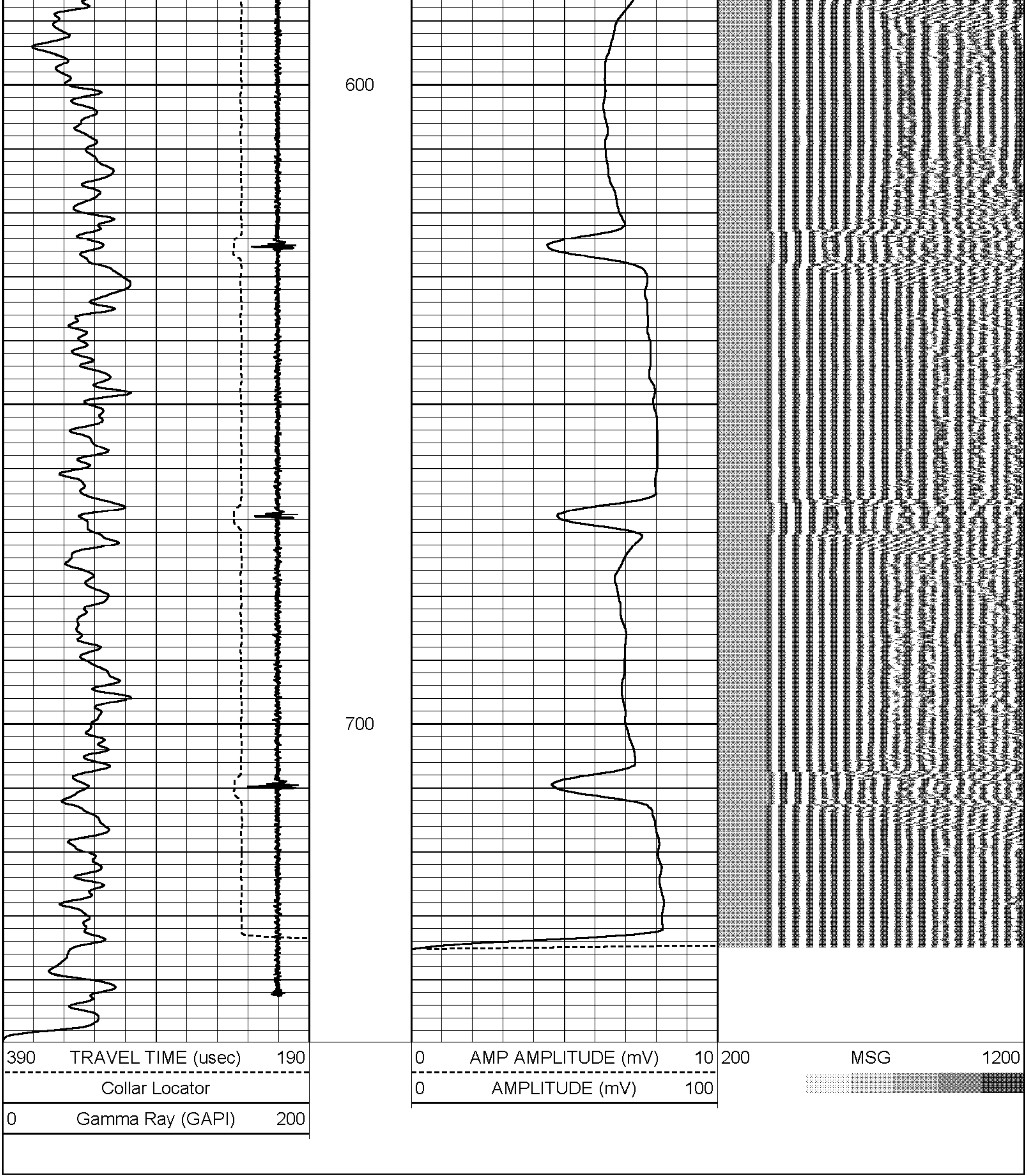


HALLIBURTON REPEAT PASS

HALLIBURTON FREE PIPE

Database File: bb_s_34c-26-692_cbl.db
Dataset Pathname: pass5
Presentation Format: cbl_main
Dataset Creation: Thu Mar 13 12:14:31 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240





HALLIBURTON

FREE PIPE

Calibration Report

Database File: bb_s_34c-26-692_cbl.db
Dataset Pathname: pass8
Dataset Creation: Thu Mar 13 12:53:45 2008 by Log Halliburton Casedho

Temperature Calibration Report

Serial Number: CSS1012
Tool Model: CSSMRAD
Performed: Tue Nov 13 08:53:57 2001

	Reference	Reading
Low Reference:	80.00 degF	35.00 cps
High Reference:	321.00 degF	169.00 cps

Gain: 1.80
Offset: 17.05
Delta Spacing 1

Gamma Ray Calibration Report

Type / Serial: Probe170 / 070841

SHOP CALIBRATION	Thu Mar 13 11:47:00 2008				
	Counts/Sec.	Gain	Offset	Jig	Units
Background	44.6				cps
Calibrator	217.4				cps
		1.3656			GAPI/cps
PRIMARY VERIFICATION	Thu Mar 13 11:48:58 2008				
Background	62.6				cps
Calibrator	302.1				cps
Difference				239.6	GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Segmented Cement Bond Log Calibration Report

Serial Number: 070760
Tool Model: Probe170

Calibration Casing Diameter: 4.500 in
Calibration Depth: 749.793 ft

Master Calibration, performed Thu Mar 13 12:14:28 2008:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.013	0.326	2.000	82.000	255.441	-1.299
CAL	0.012	0.209				
5'	0.013	0.313	2.000	82.000	266.277	-1.384
SUM						
S1	0.014	0.332	0.250	82.000	256.775	-3.229
S2	0.012	0.336	0.250	82.000	252.401	-2.769
S3	0.013	0.343	0.250	82.000	247.971	-2.953
S4	0.012	0.354	0.250	82.000	239.459	-2.685
S5	0.010	0.345	0.250	82.000	244.005	-2.094
S6	0.014	0.318	0.250	82.000	269.138	-3.505
S7	0.015	0.311	0.250	82.000	276.642	-3.975
S8	0.010	0.325	0.250	82.000	260.137	-2.468

Internal Reference Calibration, performed Wed Dec 31 18:00:00 1969:

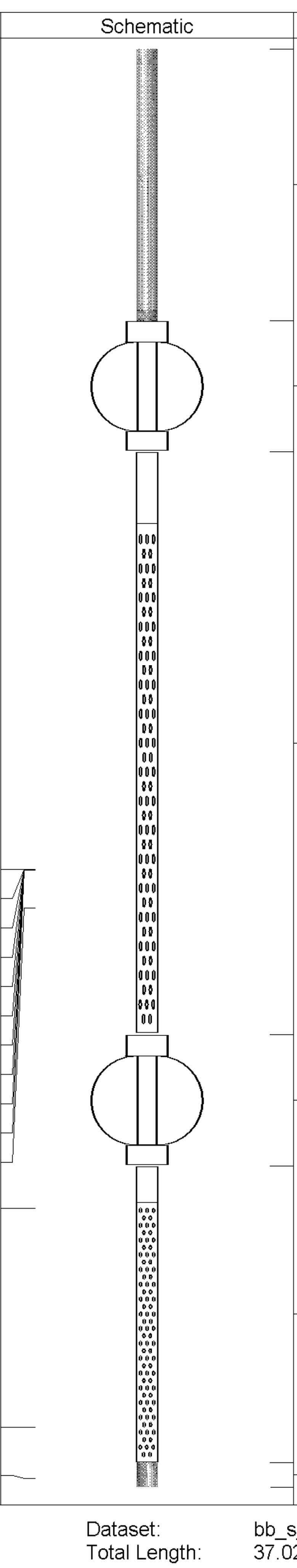
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.012	0.209	1.000	0.000

Air Zero Calibration, performed Wed Dec 31 18:00:00 1969:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Sensor	Offset (ft)
WVF3FT	15.90
WVFCAL	15.90
WVFS8	15.89
WVFS7	15.89
WVFS6	15.89
WVFS5	15.89
WVFS4	15.89
WVFS3	15.89
WVFS2	15.89
WVFS1	15.89
WVF5FT	14.90
CCL	7.17
GR	1.54
TEMP	0.21

Schematic



Description	Len (ft)	OD (in)	Wt (lb)
7FT	7.00	1.69	110.00
Probe169 Probe 1 11/16" Centralizer	3.38	1.69	15.00
RBT_PRB_170-Probe170 (070760) Probe 1-11/16" Radii Bond Tool	15.00	1.69	63.00
Probe169 Probe 1 11/16" Centralizer	3.38	1.69	15.00
GR-Probe170 (070841) Probe 1 11/16" - High Temp Gamma Ray - CCL Tool	7.65	1.69	54.00
TEMP-CSSMRAD (CSS1012) Computer Sonics CSSM Radial Temperature	0.63	3.13	30.00

Dataset: bb_s_34c-26-692_cbl.db: field/well/run1/pass8
Total Length: 37.02 ft
Total Weight: 287.00 lb
O.D. 3.13 in

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Field MAMM CREEK
County GARFIELD State COLORADO

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