HALLIBURTON

ACOUSTIC CEMENT BOND LOG

Company	BILL BARRETT CORP.
Well	DIXON FEDERAL 42B-22-692
Field	MAMM CREEK
County	GARFIELD State CO

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API No.: 05-045-21099-0000 Serv #: 9656991
Location: SURFACE HOLE LOCATION:
1506' FNL & 0326' FWL

BOTTOM HOLE LOCATION
2176' FNL & 0660' FEL

Other Services
GAUGE RING
RMT

Sec: 23 Twp: 06S Rge: 92W

Permanent Datum	GROUND LEVEL	Elevation	5878'
Log Measured From	KB	23 Ft. above perm. datum	
Drilling Measured From	KB		

Elevation
K.B. 5901'
D.F. 5900'
G.L. 5878'

Date @ Time Logged	12 JULY 2012	Type Fluid in Hole	WATER
Run No.	ONE	Density of Fluid	8.34#
Depth - Driller	7900'	Fluid Level	FULL
Depth - Logger	7847'	Cement Top Est. Logged	SEE LOG
Bottom - Logged Interval	7847'	Equipment / Location	10971668 / G.J.
Top - Log Interval	2250'	Recorded by	D. SOLIS
Max. Recorded Temp.	N/A	Witnessed by	M. BEAUXIS

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	802'	9.625"	36.0#	SURFACE	802'
TWO	7.875"	802'	7900'	4.5"	11.6#	SURFACE	7900'

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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

HALLIBURTON CBL LOG DATED: 12 JULY 2012 IS THE PRIMARY DEPTH REFERENCE FOR THIS WELL.

GR-CBL-RMT RAN IN COMBINATION.

LOG INTERVALS PER CUSTOMER REQUEST.

SHORT JOINTS @: 5720' - 5747' AND 7582' - 7610.

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES.

Service Ticket No.	9656991	API No.	05-045-21099-0000	PGM Ver	111027_R3

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

EQUIPMENT DATA

TELEMETRY		CEMENT BOND TOOL		RMT			
Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	
Serial No.	10002717	Serial No.	1120	Serial No.	11680605	Serial No.	
Model No.	TTTC-U-001	Model No.	RBT-004	Model No.	RMTA-I	Model No.	
Diameter	1.688"	Diameter	3.125"	Diameter	2.125"	Diameter	

LOGGING DATA

General Data

Pass No.	Depths From	Depths To	Well Head Pressure	Speed Ft/Min	Logging Run Comments
ONE	7847'	2250'	0	25 & 60	MAIN LOG SECTION

	GAMMA RAY		TRAVEL TIME		AMPLITUDE		MSG	
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
ONE	0	200	350	180	0	100	200	1200

DIRECTIONAL INFORMATION

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

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MAIN LOG SECTION

5" = 100'

Database File:	42b_22_692_combo.db
Dataset Pathname:	MAIN1
Presentation Format:	cbl_rbt_1
Dataset Creation:	Thu Jul 12 11:55:46 2012 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

350 TRAVEL TIME (usec) 180	LTEN	0 AMP AMPLITUDE (mV) 10	200	MSG 1200
-5400 Collar Locator 600	0 (lb) 3000	0 AMPLITUDE (mV) 100		
0 Gamma Ray (GAPI) 200				

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MAIN LOG SECTION

5" = 100'

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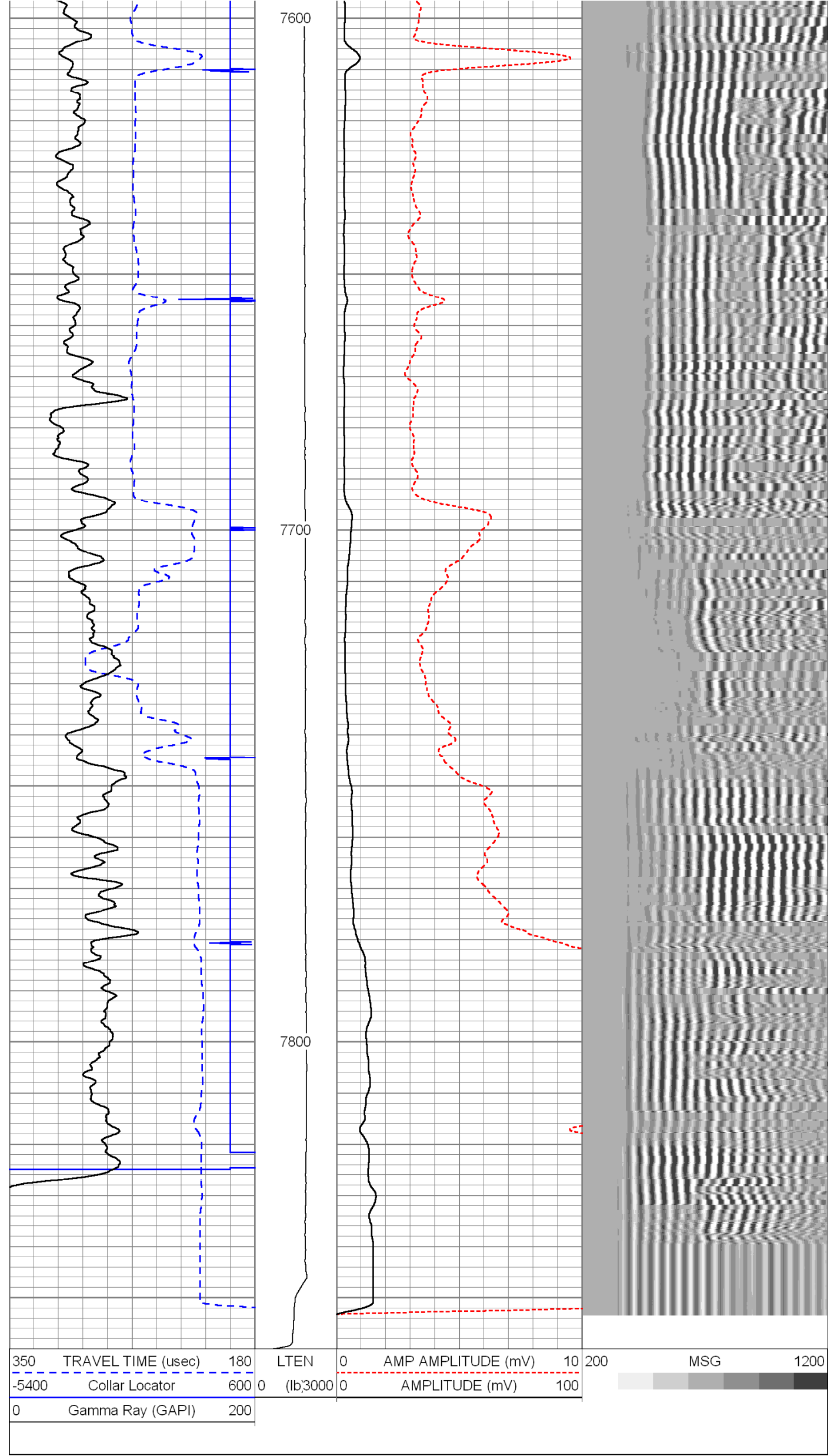
REPEAT LOG SECTION

5" = 100'

Database File: 42b_22_692_combo.db
Dataset Pathname: CBLRP1
Presentation Format: cbl_rbt_1
Dataset Creation: Thu Jul 12 11:45:14 2012 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

350 TRAVEL TIME (usec) 180	LTEN	0 AMP AMPLITUDE (mV) 10	200	MSG 1200
-5400 Collar Locator 600	0 (lb) 3000	0 AMPLITUDE (mV) 100		
0 Gamma Ray (GAPI) 200				



350 TRAVEL TIME (usec) 180	LTEN	0 AMP AMPLITUDE (mV) 10	200	MSG 1200
-5400 Collar Locator 600	0 (lb) 3000	0 AMPLITUDE (mV) 100		
0 Gamma Ray (GAPI) 200				

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REPEAT LOG SECTION

5" = 100'

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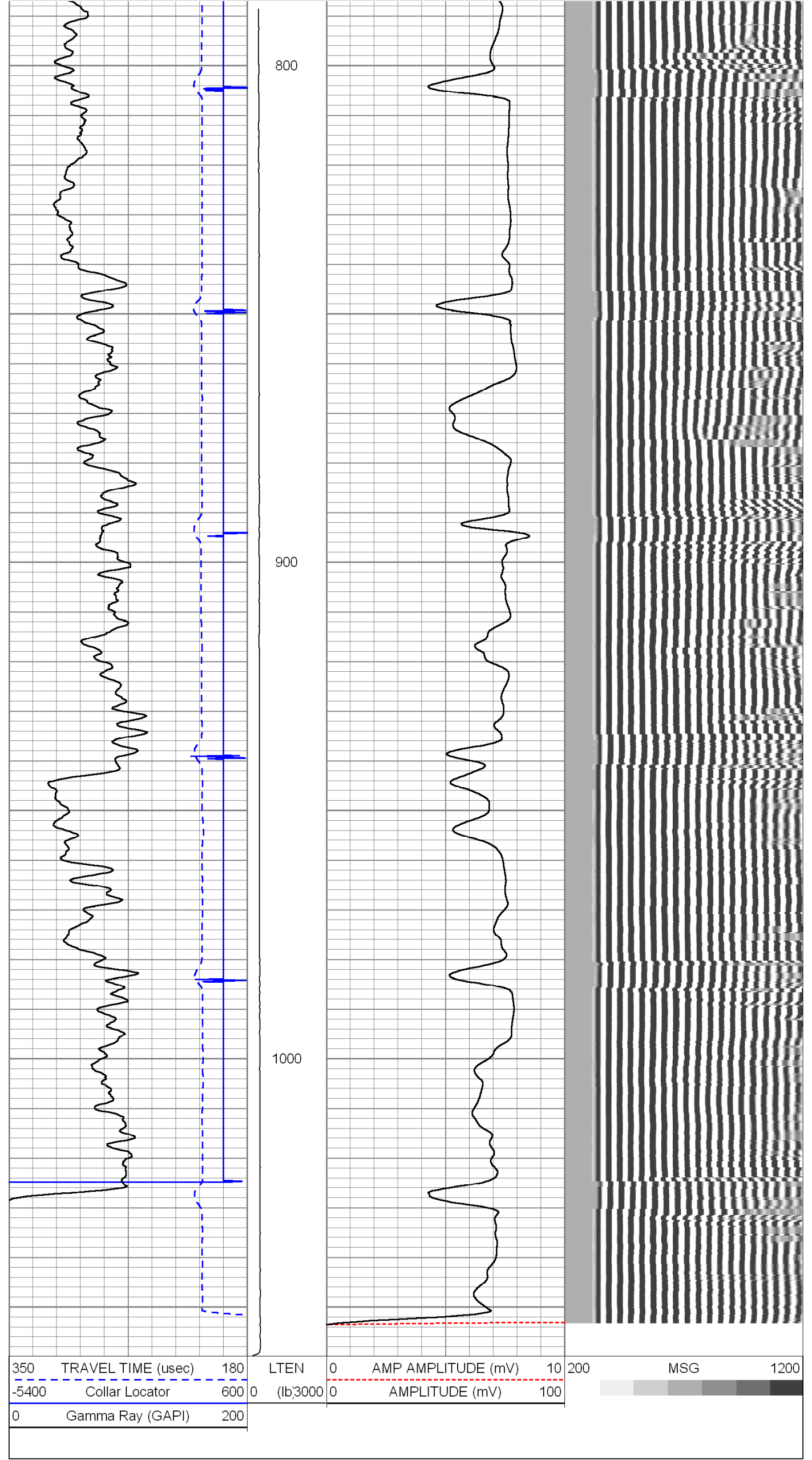
FREE PIPE LOG SECTION

5" = 100'

Database File: 42b_22_692_combo.db
Dataset Pathname: FREE1
Presentation Format: cbl_rbt_1
Dataset Creation: Thu Jul 12 10:48:39 2012 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

350 TRAVEL TIME (usec) 180	LTEN	0 AMP AMPLITUDE (mV) 10	200	MSG 1200
-5400 Collar Locator 600	0 (lb) 3000	0 AMPLITUDE (mV) 100		
0 Gamma Ray (GAPI) 200				



350 TRAVEL TIME (usec) 180	LTEN	0 AMP AMPLITUDE (mV) 10	200	MSG 1200
-5400 Collar Locator 600	0 (lb) 3000	0 AMPLITUDE (mV) 100		
0 Gamma Ray (GAPI) 200				

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FREE PIPE LOG SECTION

5" = 100'

Calibration Report

Database File: 42b_22_692_combo.db
Dataset Pathname: CBLRP1
Dataset Creation: Thu Jul 12 11:45:14 2012 by Log Halliburton Casedho

Reservoir Monitor Tool I Calibration Report

Serial-Model: 11680605-A
Shop Calibration Performed: Mon Jul 09 09:20:48 2012

Carbon/Oxygen Mode

Stabilization

Result	Logged	Expected Value	Diff.	Tol.	Units
GENV	80.00	80.00	0.00	+/-15.00	V
ITCR2	3349	3250	99	+/-250	cps

Near Detector

	Channel	Expected Value	Amplitude	FWHM	Tol.
H	60	60 +/-2	0.0259	5.32	<6.00
Fe	206	206 +/-2	0.0950	-----	-----
NGAIN = 0.998	NZOFF = -0.1				

Far Detector

	Channel	Expected Value	Amplitude	FWHM	Tol.
H	60	60 +/-2	0.0360	5.63	<6.50
Fe	209	208 +/-2	0.0911	-----	-----
FGAIN = 0.993	FZOFF = 0.4				

Flask Temperature 75.0 degF

Result	Logged	Expected Value	Diff.	Tol.	Units
COIR2	0.45	0.44	0.01	+/-0.03	
LIRI2	1.64	1.64	0.00	+/-0.20	
TCCR2	5629	5200	429	+/-1000	cps
ITCR2	3369	3250	119	+/-250	cps

Sigma Mode

Stabilization

Result	Logged	Expected Value	Diff.	Tol.	Units
GENV	79.00	80.00	-1.00	+/-15.00	V
FCAP	10338	10000	338	+/-500	cps

Horizontal Water Tank

Result	Logged	Expected Value	Diff.	Tol.	Units
N/F Normalizer	0.99	0.95	0.04	+/-0.10	
N/F Inel Norm	0.63	0.61	0.02	+/-0.06	
RNF	1.01	1.05	-0.04	+/-0.10	
RINC	1.58	1.65	-0.07	+/-0.15	
SGFN	24.02	24.00	0.02	+/-1.00	cu
SGFF	22.94	22.85	0.09	+/-0.50	cu
FSIN	25024	24000	1024	+/-2000	
FCAP	10560	10000	560	+/-1000	cps
NFTR	0.81			<5.00	
FFTR	0.90			<5.00	
NBKG	122			<500	cps
FBKG	107			<500	cps
RTN	0.51	0.40	0.11	+/-0.10	usec
RTF	0.45	0.40	0.05	+/-0.10	usec

Calibration Software Modules

HRMTI Module	2012.4.2.0
RMTI Module	2012.4.2.1

Log Data Acquisition Software Modules

HRMTI Module	2012.4.2.0
RMTI Module	2012.4.2.1

Gamma Ray Calibration Report

Type / Serial: 001 / 10002717

SHOP CALIBRATION Thu Jul 12 10:27:15 2012

	Counts/Sec.	Gain	Offset	Jig	Units
Background	43.6				cps
Calibrator	199.1				cps
		1.5174			GAPI/cps

PRIMARY VERIFICATION

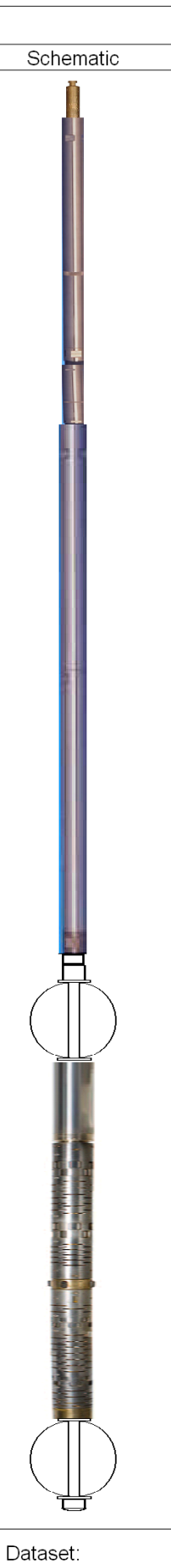
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

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

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
RmtGenIspCmc	14.81					
RmtGenIspPv	14.81		STND_CH 1.4375 IN CABLE HEAD	1.00	1.44	1.00
RmtGenIspI	14.81					
RmtGenCmd	14.81					
RmtGenPv	14.81					
RmtGenI	14.81					
RmtGenP5VI	14.81		TTTCU-001 (10002717) Through Tubing Telemetry Cartridge - Ultrawire	6.55	1.69	33.00
RmtGenTemp	14.81					
RmtGenP15VI	14.81					
RmtGen200V	14.81					
RmtGenP33V	14.81					
RmtGenP5V	14.81		XHU-003 (000001) Crossover Halliburton 1553 to Ultrawire	1.58	1.69	7.00
RmtGenClampV	14.81					
RmtGenSyncV	14.81					
RmtGenLvdsV	14.81					
RmtGen15BusV	14.81					
RmtGenIonI	14.81					
RmtNDetStat	14.81					
RmtNPrgSt1	14.81					
RmtNPMI	14.81					
RmtNPMHV	14.81					
RmtNTemp	14.81		RMTI-A (11680605) Halliburton RMTI Tool	14.06	2.13	77.00
RmtFDetStat	14.81					
RmtFPrgSt1	14.81					
RmtFPMI	14.81					
RmtFPMHV	14.81					
RmtFTemp	14.81					
RmtGenClampV	14.81					
WVF3FT	7.60					
WVFS1	7.60					
WVFS2	7.60		SondexxGo Sondex Box x Go Pin Cross Over	0.31	1.69	1.00
WVFS3	7.60					
WVFS4	7.60		AUH-001 (000001) Adaptor Ultrawire/Halliburton	0.38	1.69	3.00
WVFS5	7.60					
WVFS6	7.60		CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	2.17	2.75	35.00
WVFS7	7.60					
WVFS8	7.60					
CBLTEMP	7.60					
CBLROT	7.60					
WVF5FT	6.60					
LLMTEN	0.00		RBT-004 (1120) Radial Bond Tool (UW 3 1/8) 20K Rated	9.48	3.13	140.00
XHUERR1	0.00					
XHUERR2	0.00					
XHUTEMP	0.00					
XHUCURR	0.00					
XHUVOLT	0.00					
XHUSTAT	0.00		CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	2.17	2.75	35.00
TSTAMP	0.00					
ITEMPX	0.00		BUL-001 (000001) Bullnose	0.30	1.69	1.50
HVOLTX	0.00					

Dataset: 42b_22_692_combo.db: field/well/run1/CBLRP1
Total Length: 38.00 ft
Total Weight: 333.50 lb
O.D. 3.13 in

Company	BILL BARRETT CORP.
Well	DIXON FEDERAL 42B-22-692
Field	MAMM CREEK
County	GARFIELD State CO

HALLIBURTON

ACOUSTIC CEMENT BOND LOG