HALLIBURTON

CEMENT BOND LOG
GR-CCL

Company	LARAMIE ENERGY II,LLC		
Well	HAWXHURST 25-01B		
Field	BUZZARD CREEK		
County	MESA	State	CO

Company LARAMIE ENERGY II,LLC
Well HAWXHURST 25-01B
Field BUZZARD CREEK
County MESA State CO

API No.: 05077101640000 Serv #:
Location: SHL:1344' FSL & 616'FEL
BHL: 657 FNL & 644' FEL

Other Services
CBL

Sec:24 Twp:9S Rge:95W

Permanent Datum	GL	Elevation	6354'	Elevation
Log Measured From	KB	21' Ft. above perm. datum		K.B. 6375'
Drilling Measured From	KB			D.F. 6375' G.L. 6354'

Date @ Time Logged	NOV-19-2011	Type Fluid in Hole	WATER
Run No.	ONE	Density of Fluid	8.4 PPG
Depth - Driller	6665'	Fluid Level	FULL
Depth - Logger	6589'	Cement Top Est. Logged	
Bottom - Logged Interval	6584'	Equipment / Location	8537 / RS
Top - Log Interval	SURFACE	Recorded by	PEDRO G. BAQUEIRO
Max. Recorded Temp.	N/A	Witnessed by	L.CARTER

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
THREE	7.875	1593'	6665'	4.5	11.6	SURFACE	6665'

<<< 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

HES RESERVOIR MONITOR LOG CORRELATED BY HES SPECTRAL DENSITY
DATED 23-SEP-2011
LOG INTERVAL PER COSTUMER REQUEST

THANKS FOR CHOOSING HALLIBURTON ENERGY ROCK SPRING WY

Service Ticket No.	API No. 05077101640000	PGM Ver	101102_R1

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

EQUIPMENT DATA

GR CCL		CBL					
Run No.	ONE	Run No.	ONE	Run No.		Run No.	
Serial No.	07664	Serial No.	070718	Serial No.		Serial No.	
Model No.	GR PROBE	Model No.	CBL PROBE	Model No.		Model No.	
Diameter	2.75	Diameter	2.75	Diameter		Diameter	

LOGGING DATA

General Data

Pass	Depths		Well Head	Speed	Logging Run Comments
No.	From	To	Pressure	Ft/Min	
ONE	6584'	SURFACE			

	GR		SGIN					
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
ONE	0	200	0	60				

DIRECTIONAL INFORMATION

Maximum Deviation	deg. @	KOP	

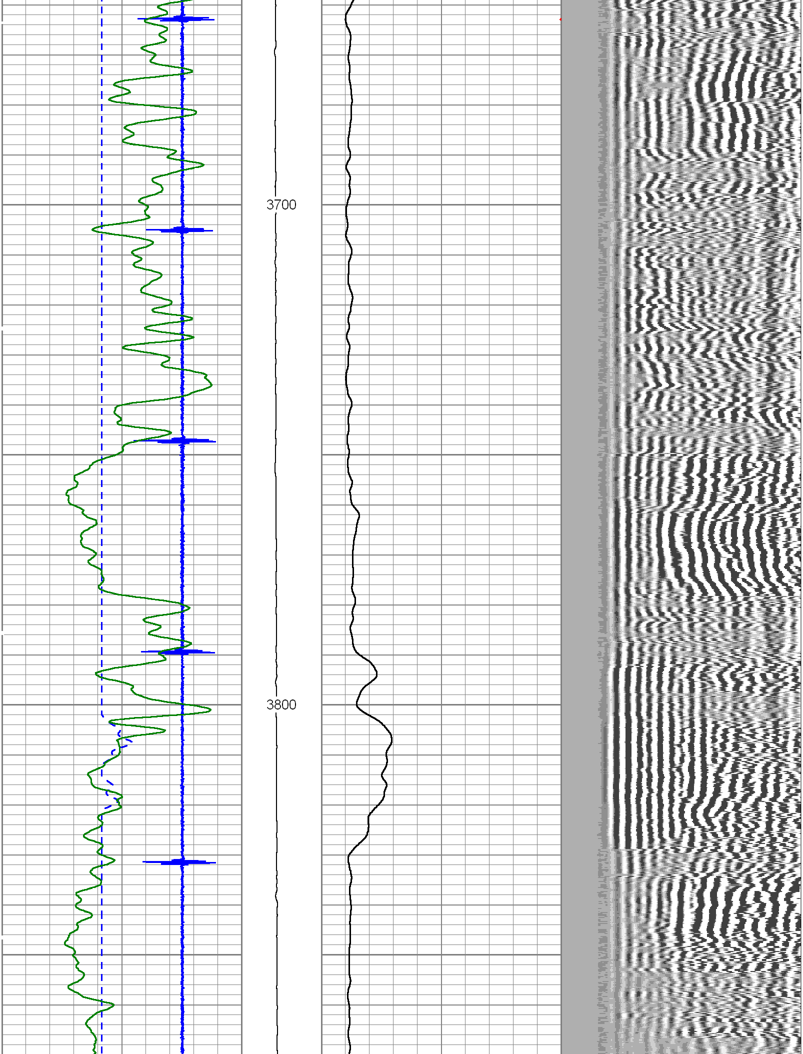
HALLIBURTON

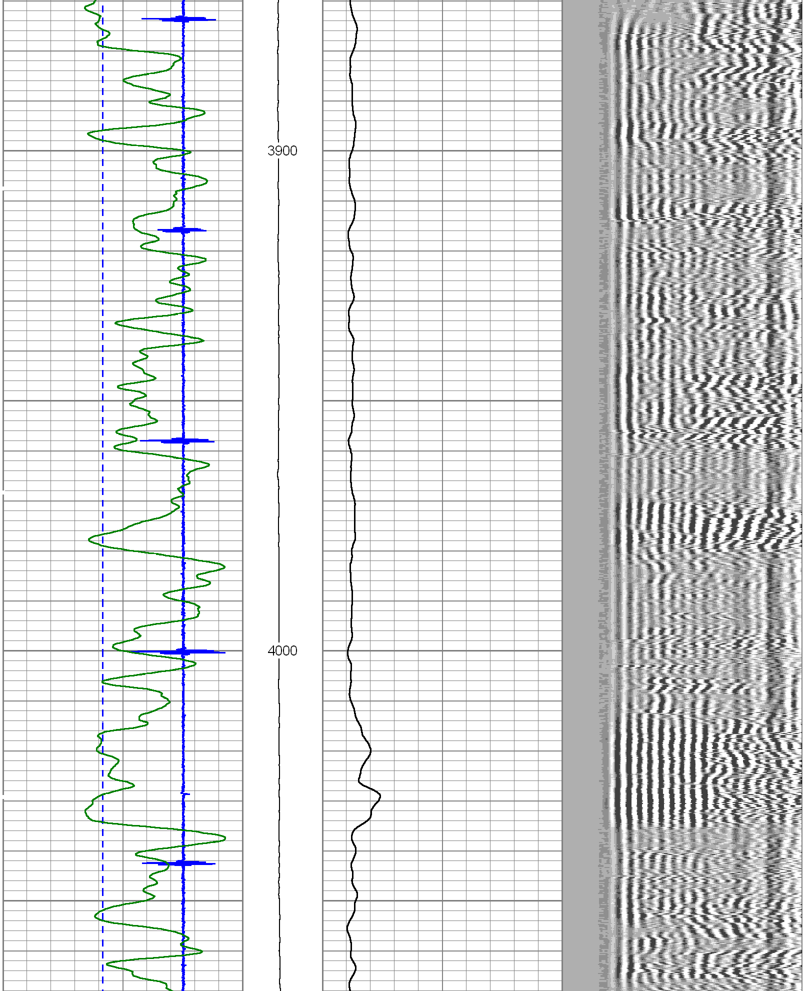
MAIN LOG PASS

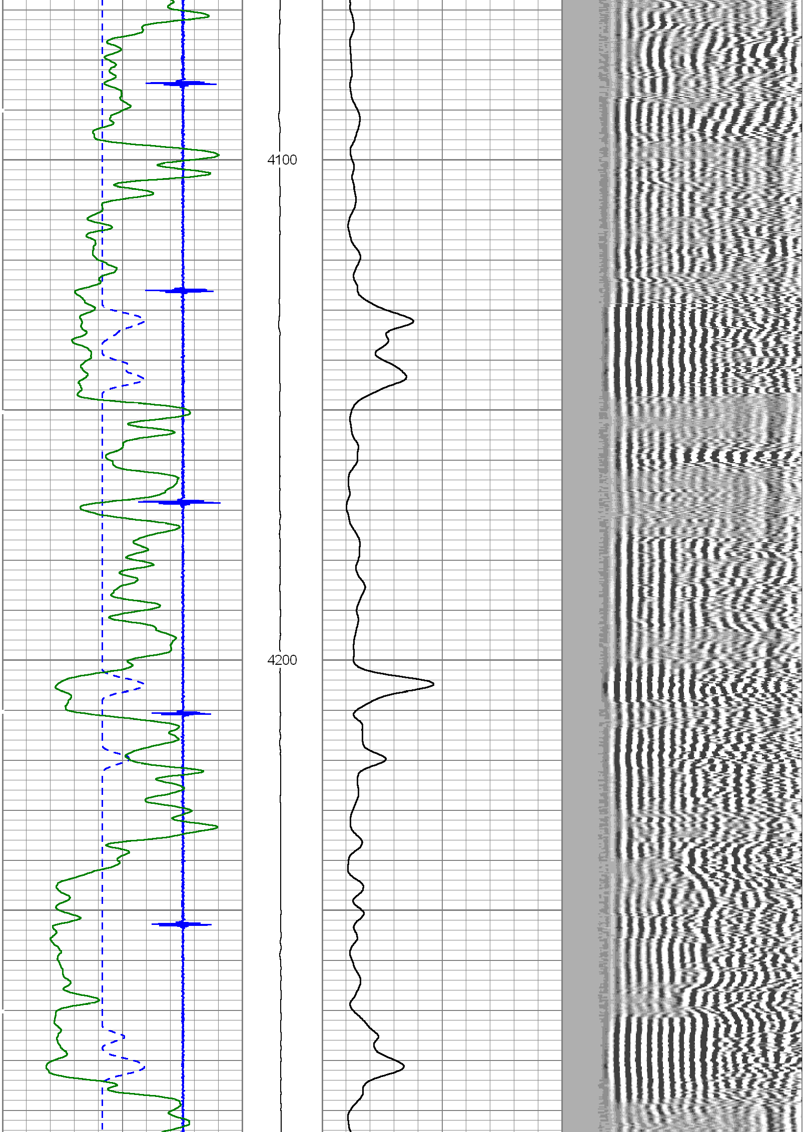
5"=100'

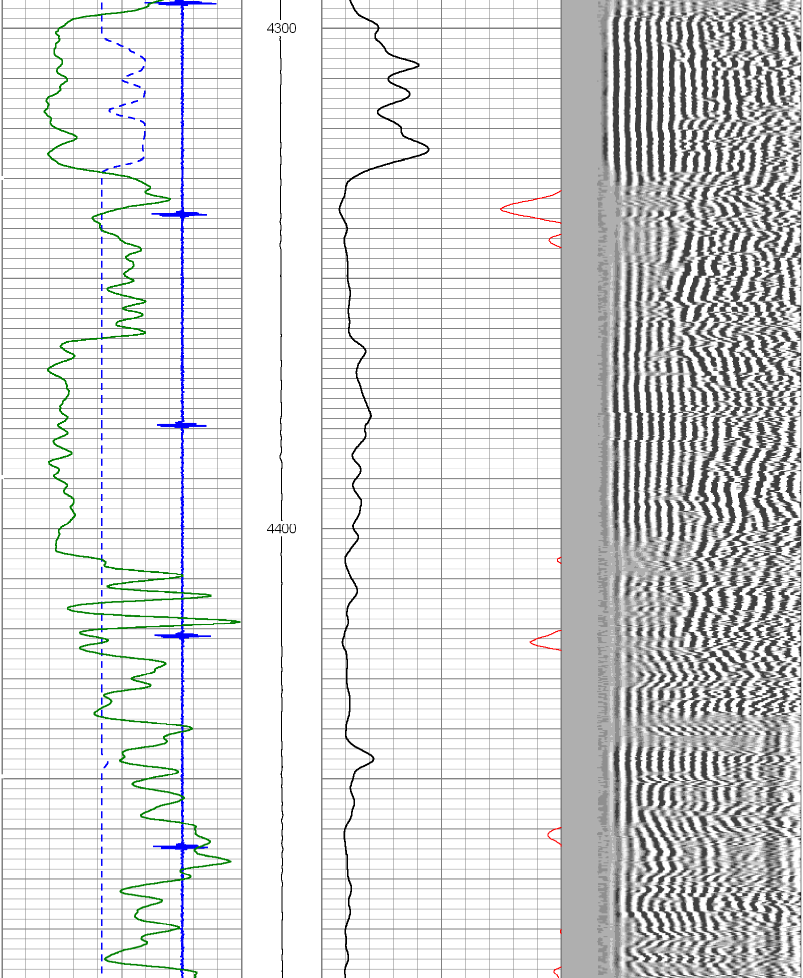
Database File: laramiehawxhurst_25-01b_cbl.db
Dataset Pathname: 25_01B/run1/MAIN
Presentation Format: cbl_main
Dataset Creation: Sat Nov 19 20:07:04 2011 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

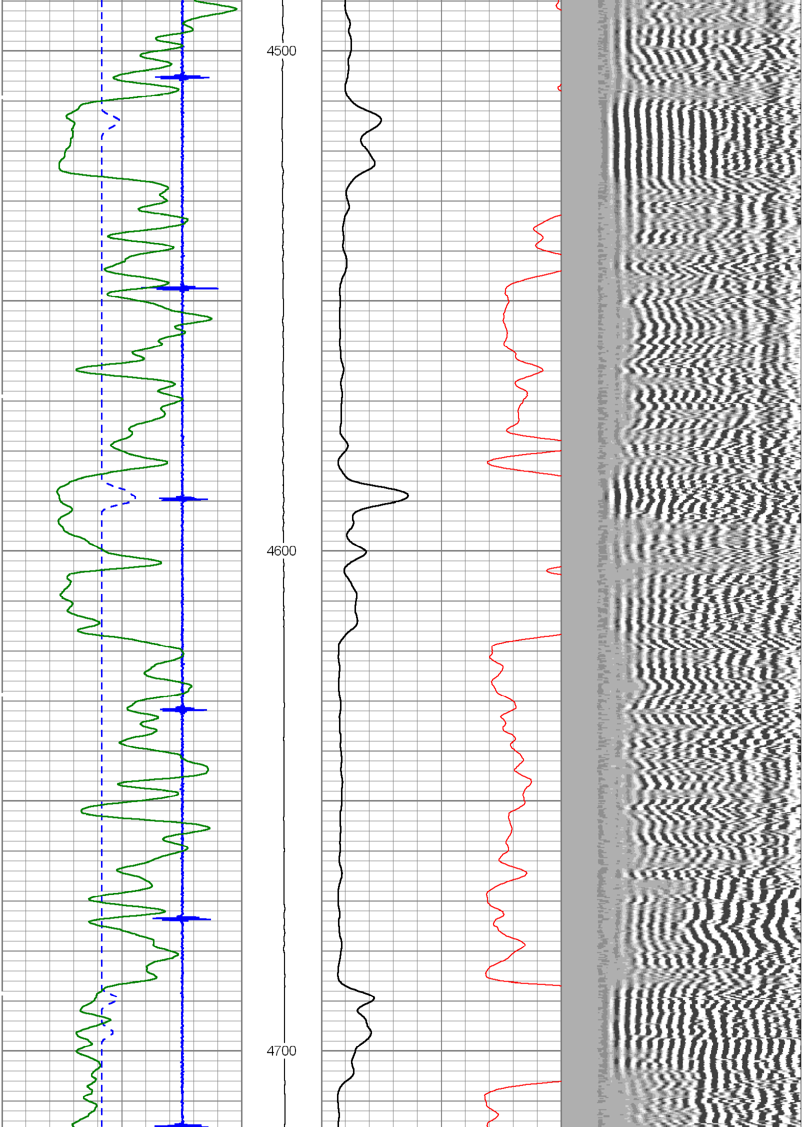
400 TRAVEL TIME (usec) 150	LTEN	0 AMP AMPLITUDE (mV) 10	200 MSG 1200	
-3 Collar Locator 1	0 (lb) 1800	0 AMPLITUDE (mV) 100		
0 Gamma Ray (GAPI) 200				

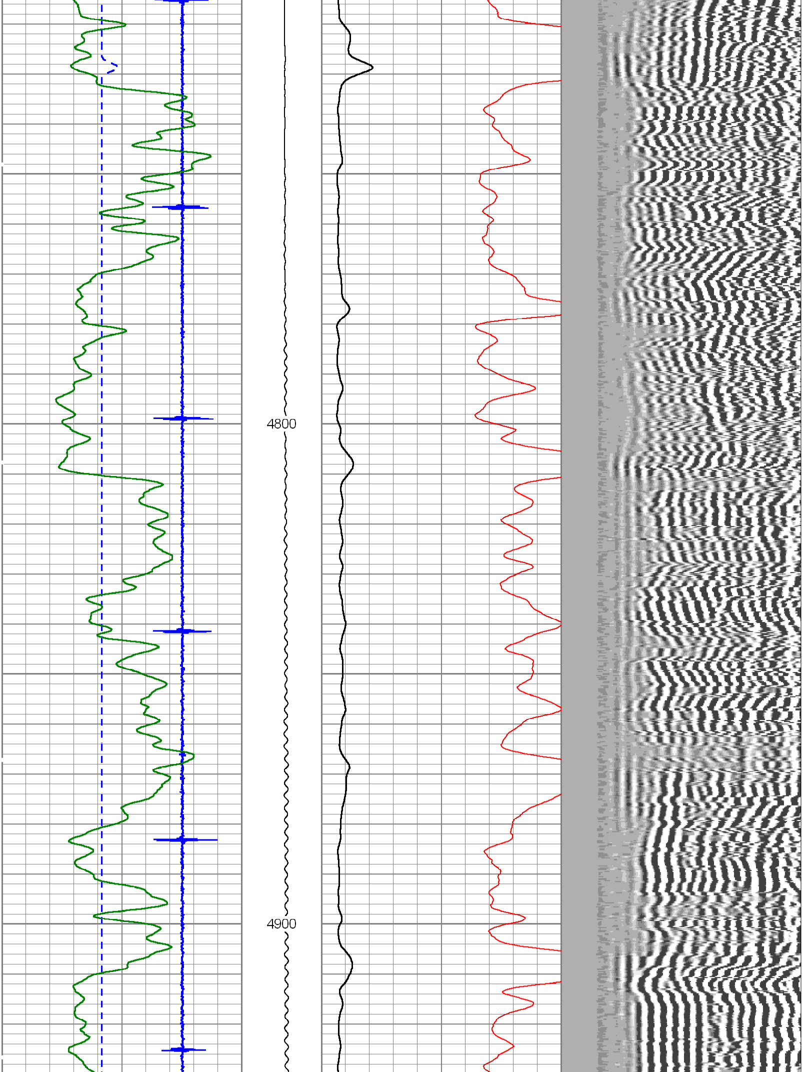


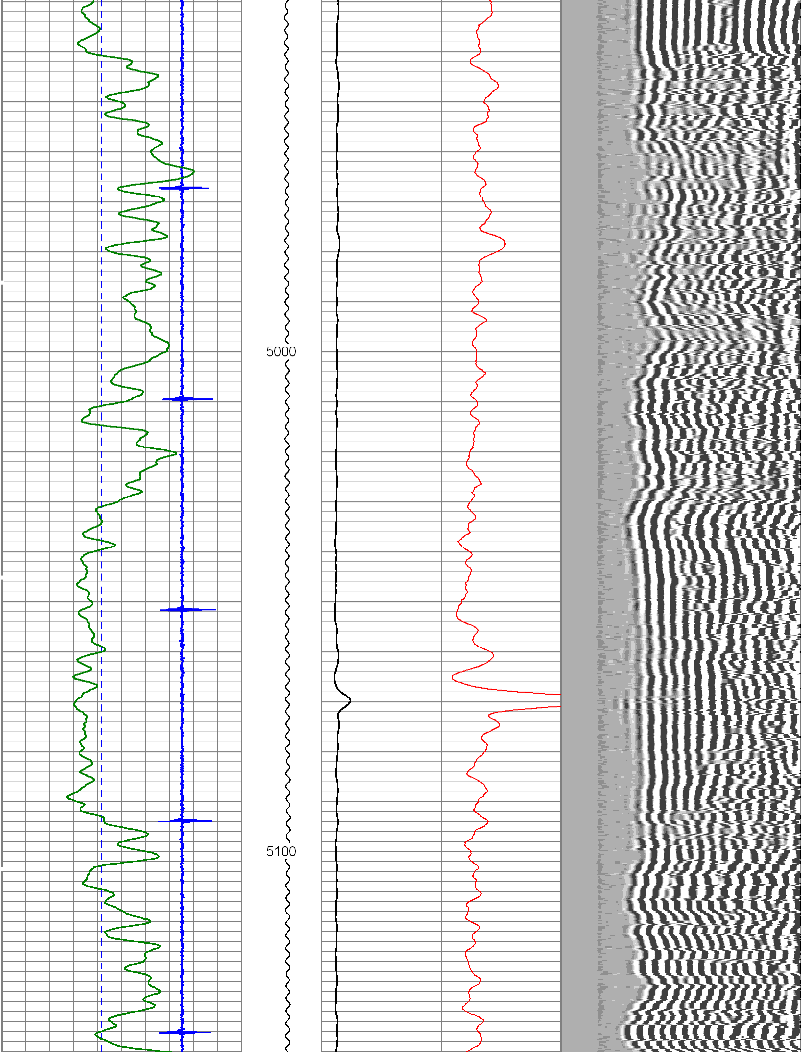


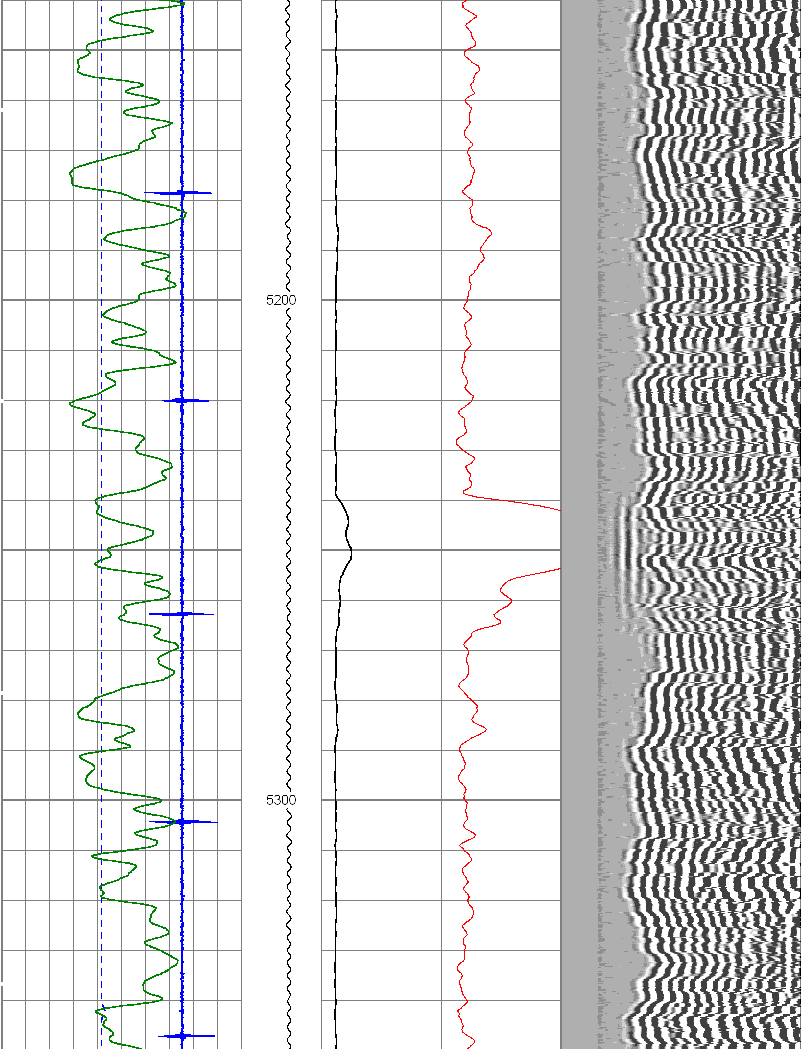


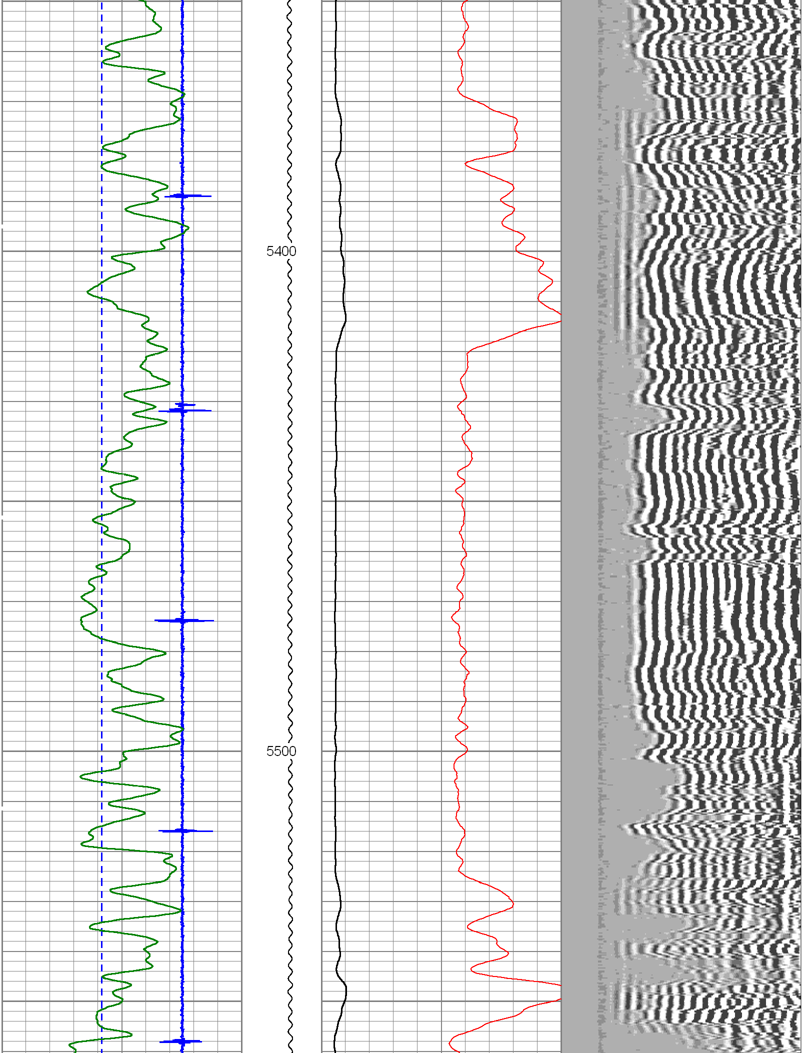


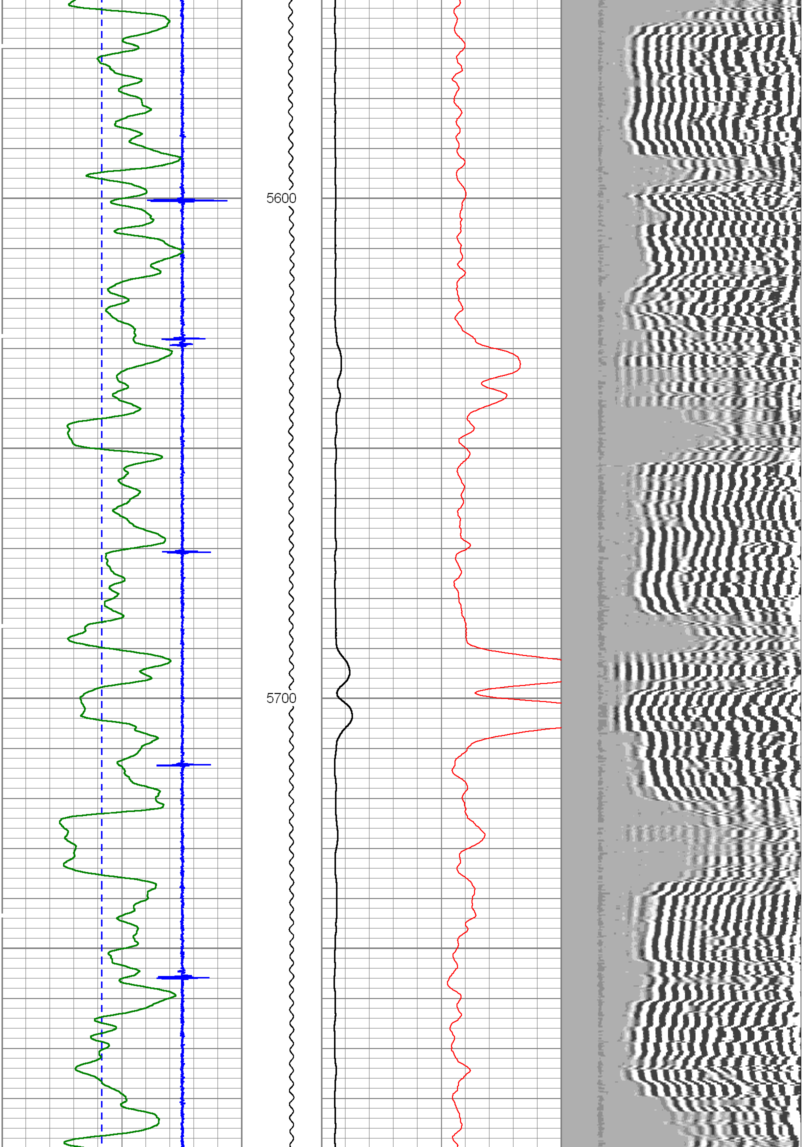


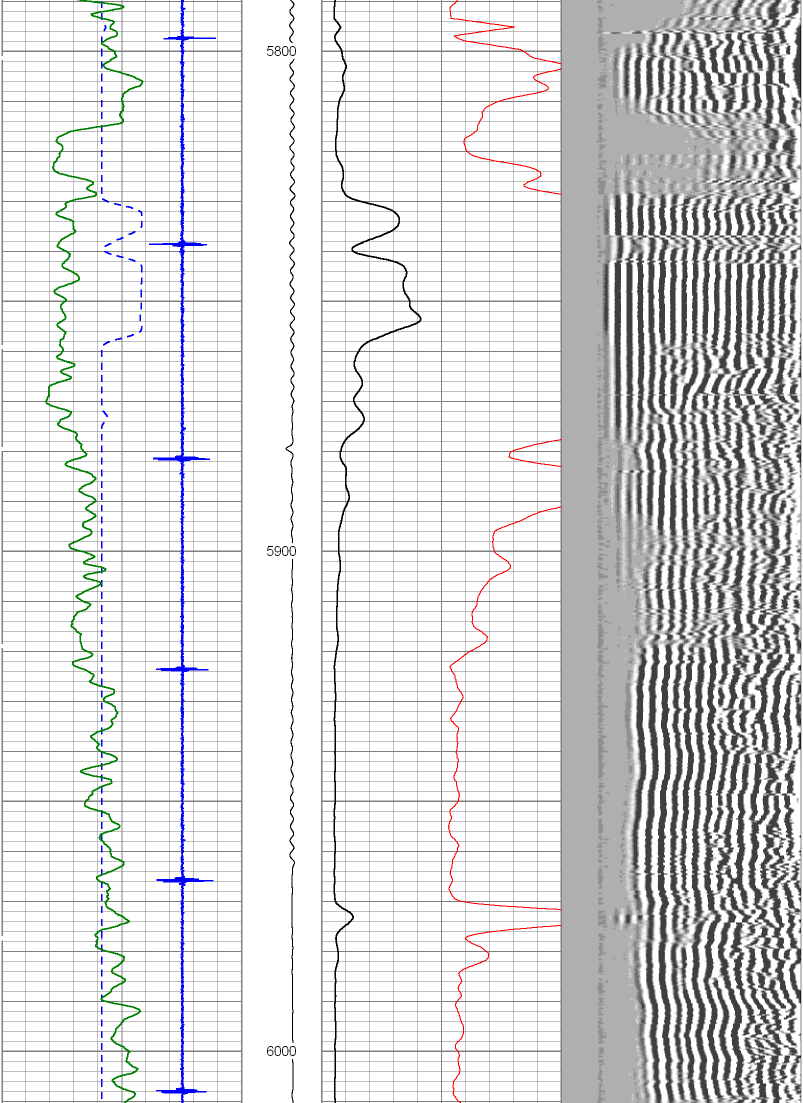


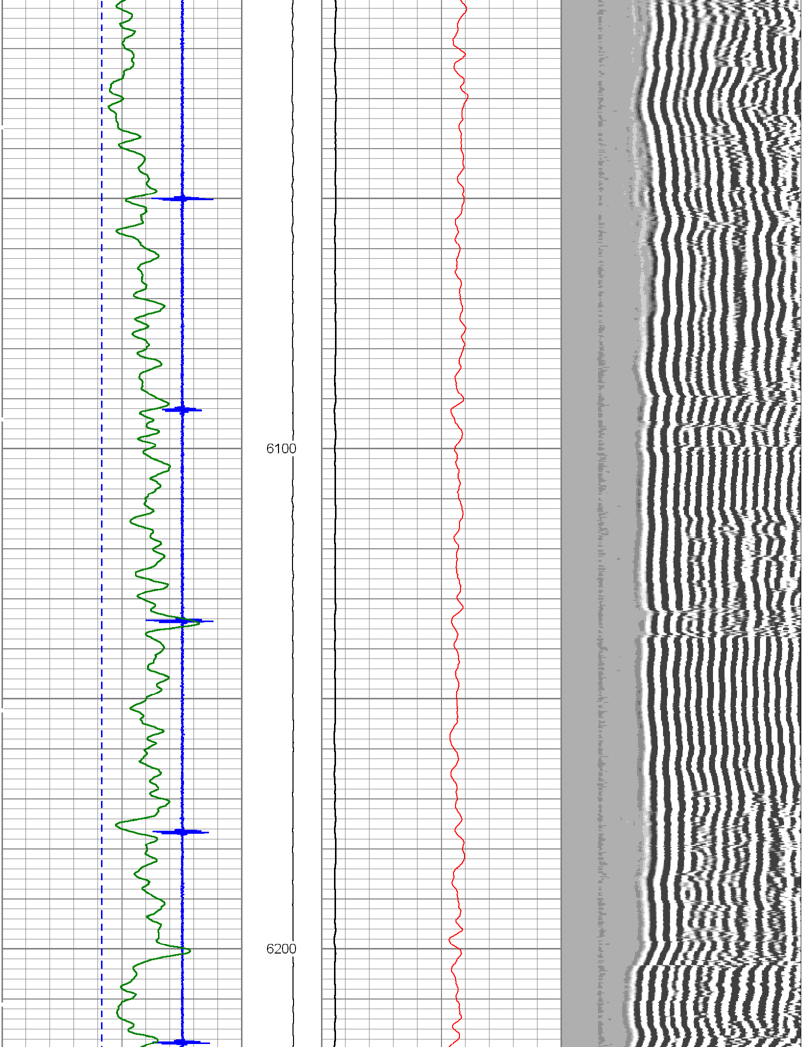


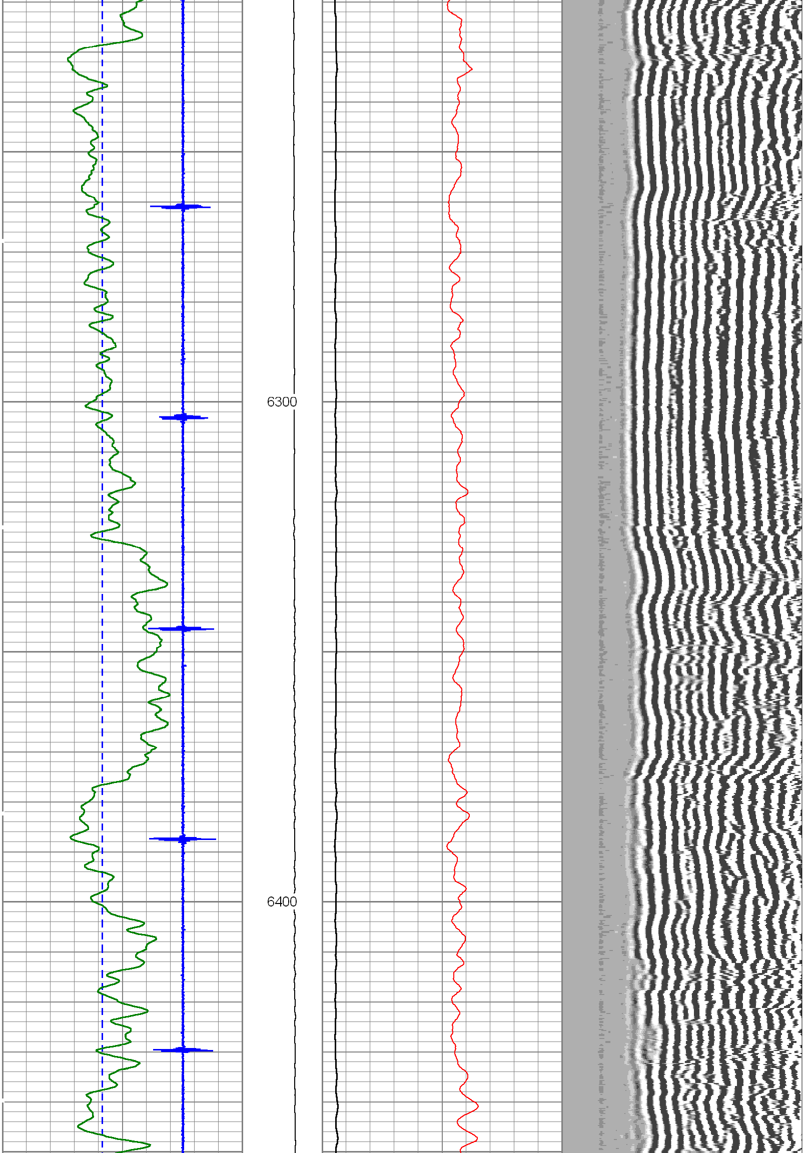


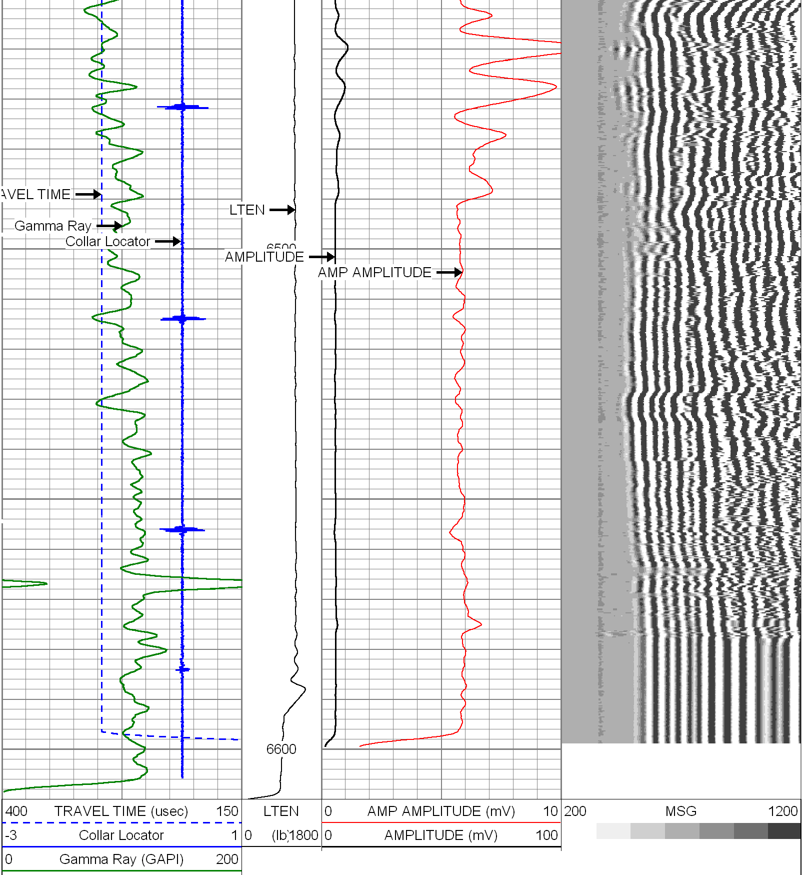












HALLIBURTON

MAIN LOG PASS

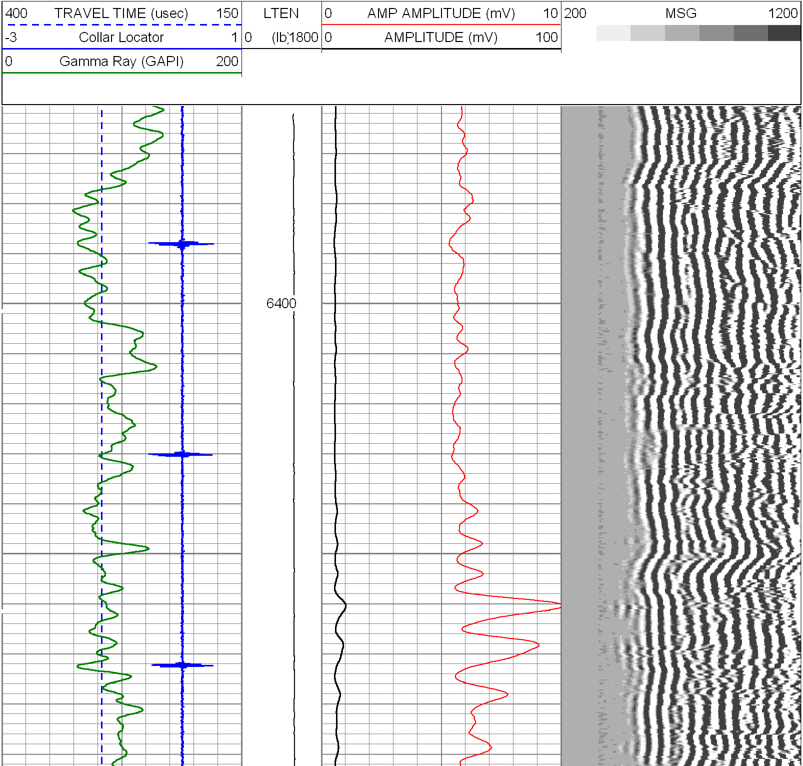
5"=100'

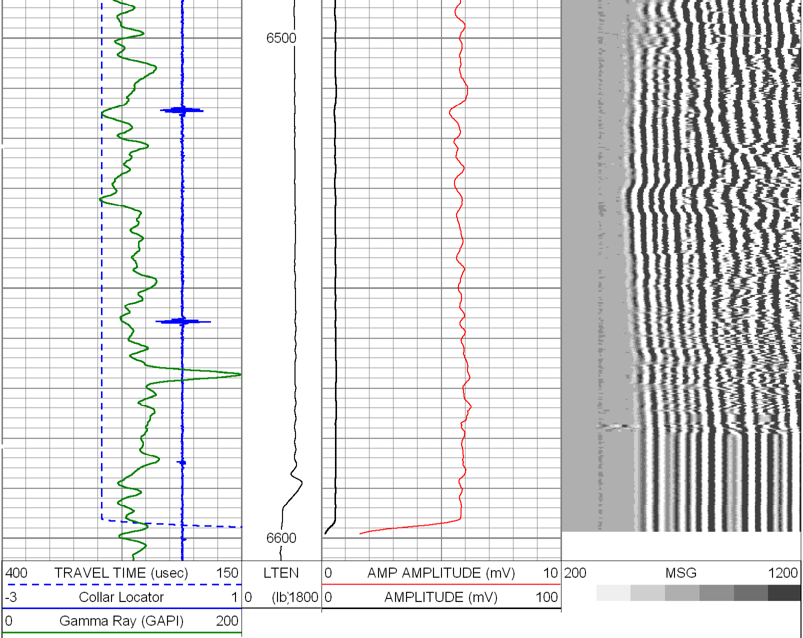
HALLIBURTON

REPEAT LOG PASS

5"=100'

Database File:	laramiehawxhurst_25-01b_cbl.db
Dataset Pathname:	25_01B/run1/REPEAT
Presentation Format:	cbl_main
Dataset Creation:	Sat Nov 19 19:59:46 2011 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240





HALLIBURTON

REPEAT LOG PASS

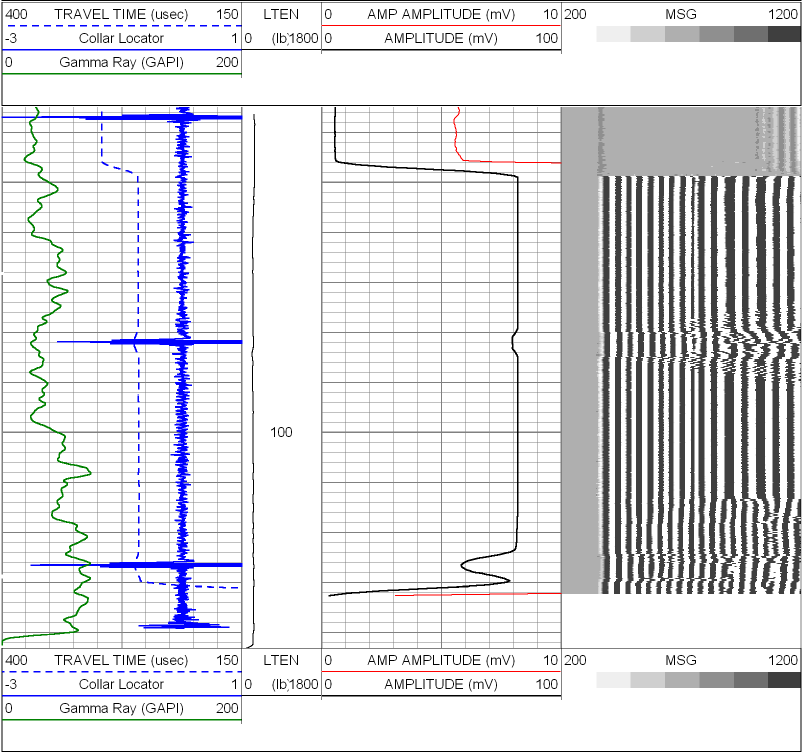
5"=100'

HALLIBURTON

FREE PIPE SECTION

5"=100'

Database File:	laramiehawxhurst_25-01b_cbl.db
Dataset Pathname:	25_01B/run1/FREE
Presentation Format:	cbl_main
Dataset Creation:	Sat Nov 19 19:26:42 2011 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240



HALLIBURTON

FREE PIPE SECTION

5"=100'

Calibration Report

Database File:	laramiehawxhurst_25-01b_cbl.db
Dataset Pathname:	25_01B/run1/MAIN
Dataset Creation:	Sat Nov 19 20:07:04 2011 by Log Halliburton Casedho

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 70664

SHOP CALIBRATION

Sat Nov 19 19:13:45 2011

	Counts/Sec.	Gain	Offset	Jig	Units
Background	42.0				cps
Calibrator	330.4				cps
		0.8425			GAPI/cps

PRIMARY VERIFICATION

Sat Nov 19 19:16:12 2011

Background	39.9				cps
Calibrator	280.7				cps
Difference				240.9	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

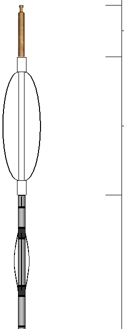
AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

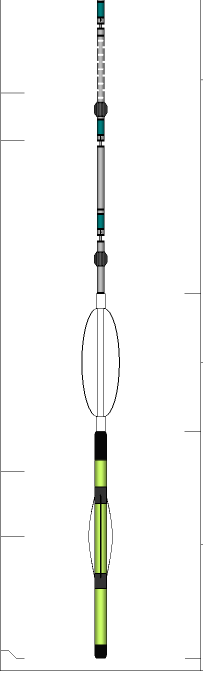
Cement Bond Log Calibration Report

Serial Number:	070718		
Tool Model:	Probe		
Performed:	Sat Nov 19 19:25:16 2011		
Depth:	84.6867	ft	
Casing Diameter:	4.5	in	

	3' Spacing	5' Spacing	
Signal Zero:	2	2	mV
Calibrated Amplitude:	82	82	mV
Reading at Signal Zero:	0.0155273	0.00251465	V
Reading in Free Pipe:	2.49878	2.49878	V
Gain:	32.2158	32.0479	
Offset:	1.49977	1.91941	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STND_CH 1.4375 IN CABLE HEAD	1.08	1.44	1.10
			CENT-Probe (MONO1) Probe 2 3/4 Centralizer	2.88	2.75	35.00

WVF3	11.82
WVF5	10.82
CCL	3.92
GR	2.54
LLMTEN	0.00



CBL-Probe (070718) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	2.88	2.75	35.00
GR-Probe275dig (70664) Probe Digital Gamma CCL	4.75	2.75	57.00

Dataset:	laramiehawxhurst_25-01b_cbl.db: field/25_01B/run1/MAIN
Total Length:	20.52 ft
Total Weight:	188.10 lb
O.D.	2.75 in

Company	LARAMIE ENERGY II,LLC		
Well	HAWXHURST 25-01B		
Field	BUZZARD CREEK		
County	MESA	State	CO

CEMENT BOND LOG
GR-CCL

[redacted]

[redacted]