Company	LARAMIE ENERGY II LLC
Well	BRUTON # 19-14B
Field	BRUSH CREEK
County	MESA State CO

HALLIBURTON

ACOUSTIC CEMENT BOND LOG

FIELD PRINT

Company	LARAMIE ENERGY II LLC
Well	BRUTON # 19-14B
Field	BRUSH CREEK
County	MESA State CO

API No.: 05077100940000 Serv #: 8183096

Location: SURFACE HOLE:
0825' FSL & 1750' FWL

Other Services

TEMPERATURE LOG

Sec: 19 Twp: 09S Rge: 93W

Permanent Datum	GROUND LEVEL	Elevation	7345'	Elevation
Log Measured From	K.B. , 21 Ft. above perm. datum			K.B. 7366' D.F. 7365' G.L. 7345'
Drilling Measured From	K.B.			

Date @ Time Logged	18/MAY/11 12:30 HRS	Type Fluid in Hole	WATER
Run No.	ONE	Density of Fluid	8.34 PPG
Depth - Driller	12296'	Fluid Level	FULL
Depth - Logger	12254'	Cement Top Est. Logged	LOGGED
Bottom - Logged Interval	12254'	Equipment / Location	10678538 / GJ
Top - Log Interval	SURFACE	Recorded by	J.ARRASCUE
Max. Recorded Temp.	340 DGF	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
ONE	26"	SURFACE	40'	16"	25 #	SURFACE	40'
TWO	12.25"	40'	8462'	7"	26 #	SURFACE	8462'
THREE	7.875 "	8462'	12296'	4.5"	11.6 #	SURFACE	12296'

<<< 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 CBL/TEMPERATURE LOG DATED MAY 18, 2011

TEMPERATURE LOG AVALIABLE UPON REQUEST

TEMPERATURE SPIKE @ 11,062 FT & 11,514 FT.

CREW: J. GAY & A. SHRECK

THANK YOU FOR USING HALLIBURTON ENERGY SERVICES GRAND JUNCTION, CO

Service Ticket No. 8183096 API No. 05077100940000 PGM Ver 101102_R1

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

EQUIPMENT DATA

CBL		GR					
Run No.	ONE	Run No.	ONE	Run No.		Run No.	
Serial No.	080544	Serial No.	080924	Serial No.		Serial No.	
Model No.	CBL-PROBE	Model No.	GR-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	12254'	SURFACE	0 PSI	60	MAIN LOG SECTION

	GAMMA RAY		CCL		AMPLITUDE			
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
ONE	0	200	-18	2	0	100		

DIRECTIONAL INFORMATION

Maximum Deviation		deg. @		KOP		

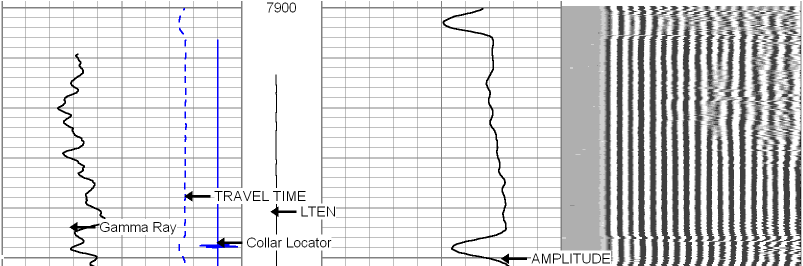
HALLIBURTON

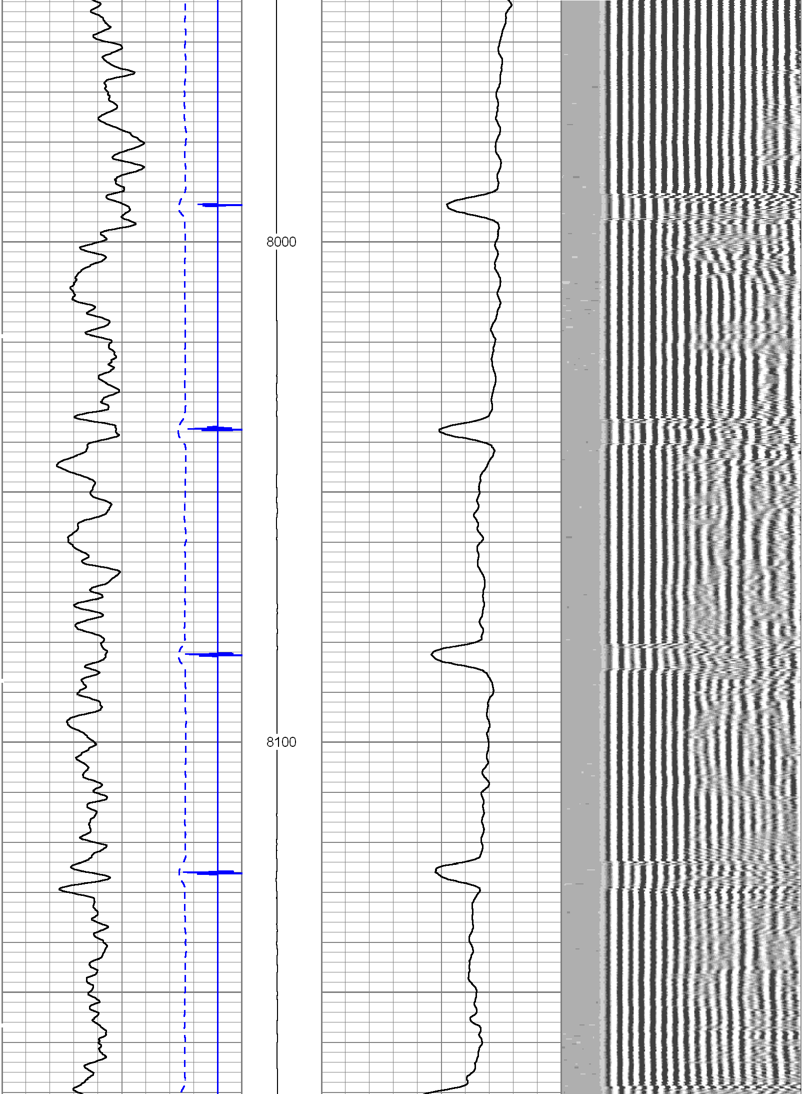
MAIN LOG SECTION

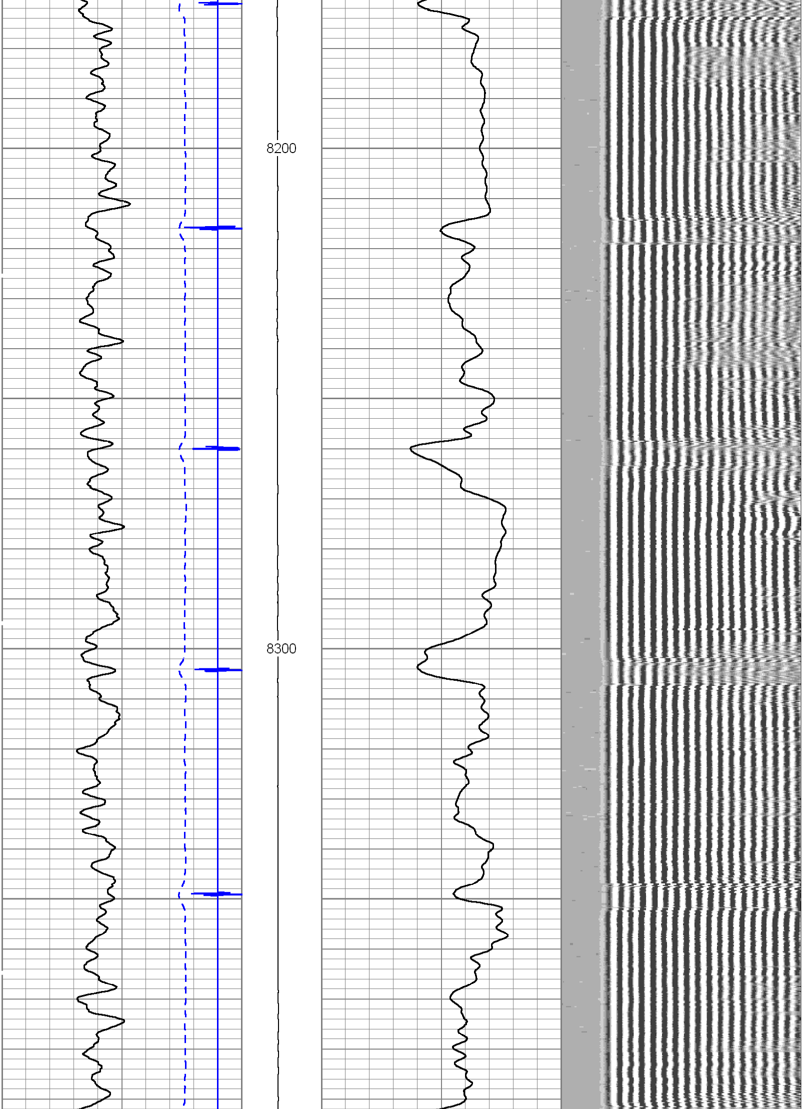
5"=100'

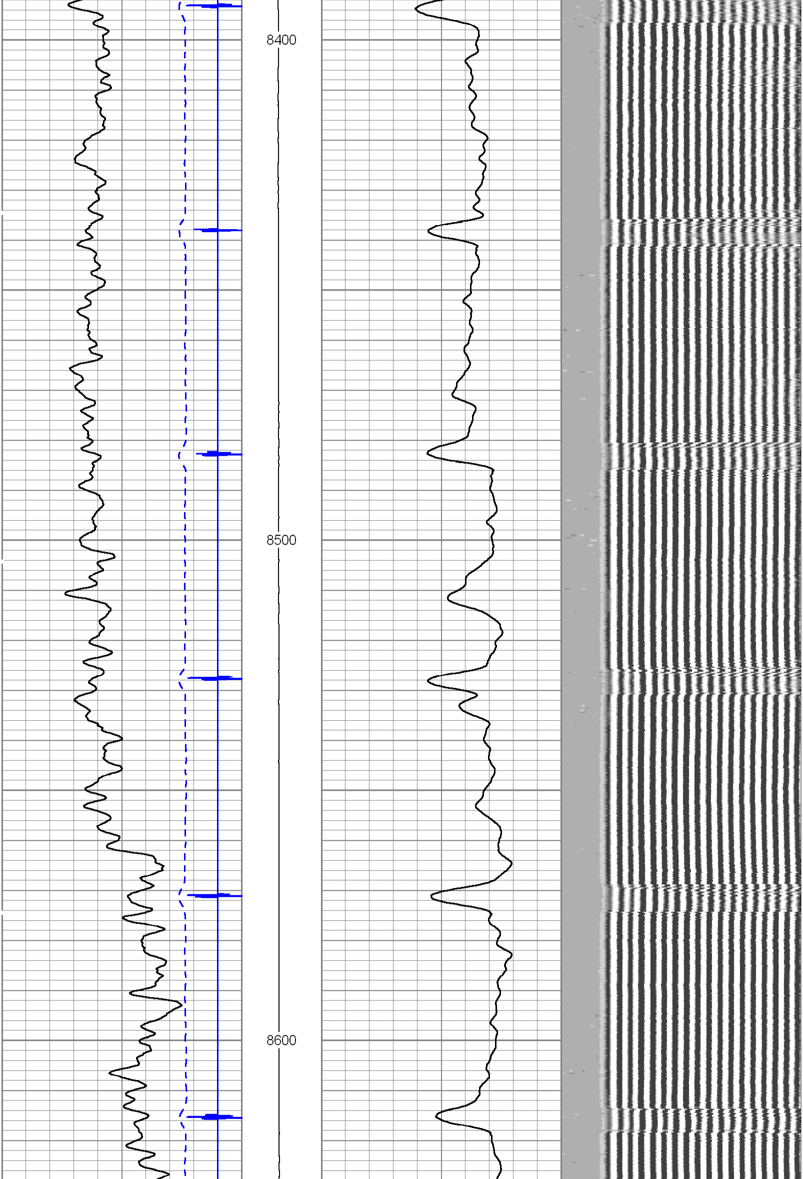
Database File: c:\warrior\data\laramie\bruton_19_14b\bruton_19_14b_cb_t.db
Dataset Pathname: WILDCAT/BRUTON191/run1/merge1
Presentation Format: cbl_main
Dataset Creation: Thu May 19 06:49:43 2011
Charted by: Depth in Feet scaled 1:240

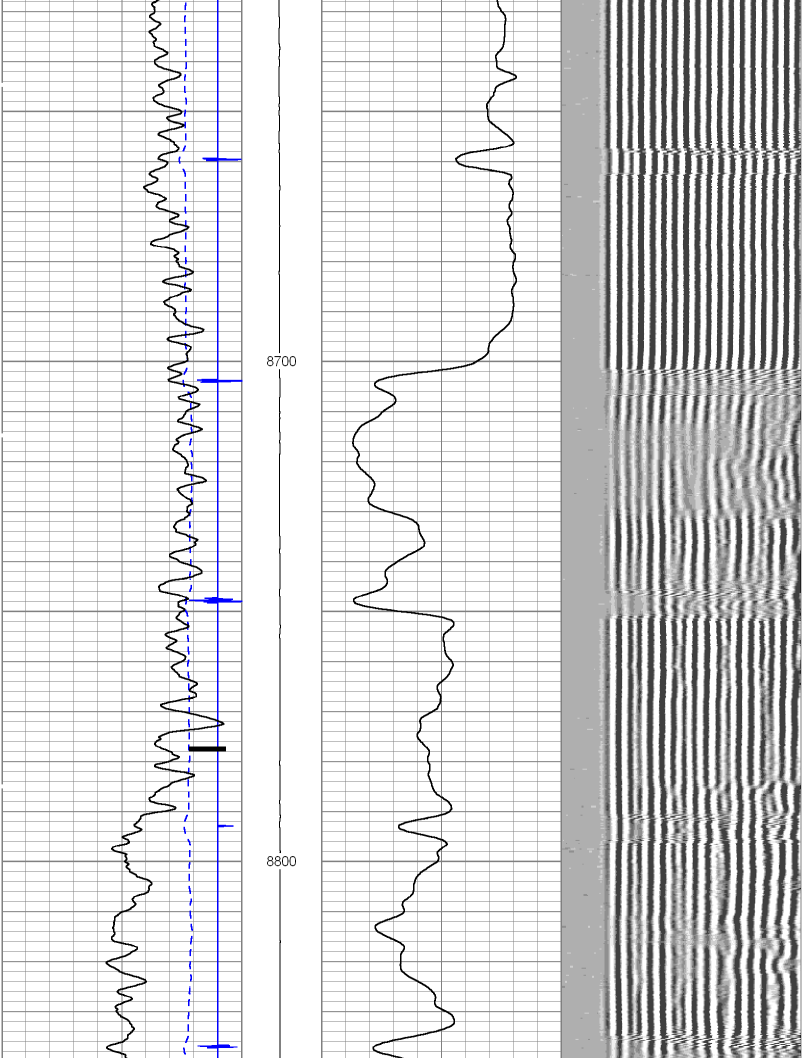
420 TRAVEL TIME (usec) 220	LTEN	0 AMP AMPLITUDE (mV) 10	200 MSG 1200
-18 Collar Locator 2	0 (lb)3500	0 AMPLITUDE (mV) 100	
0 Gamma Ray (GAPI) 150			

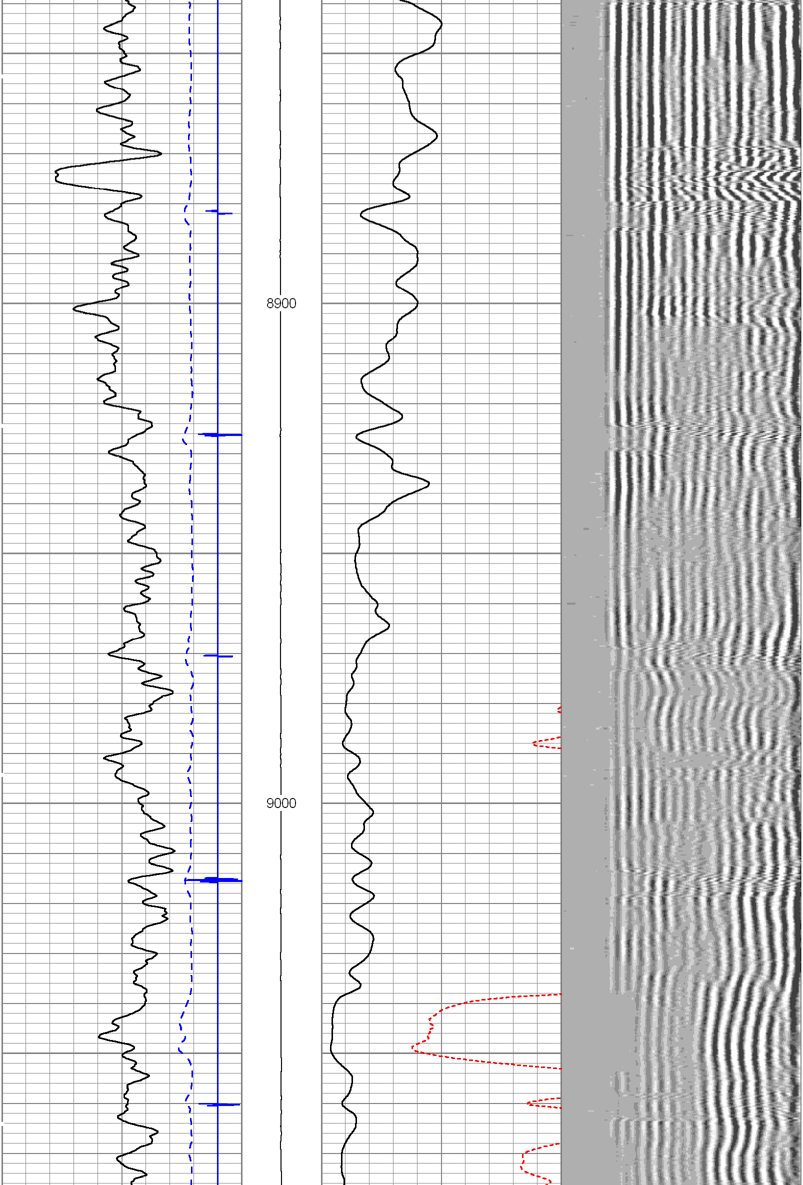


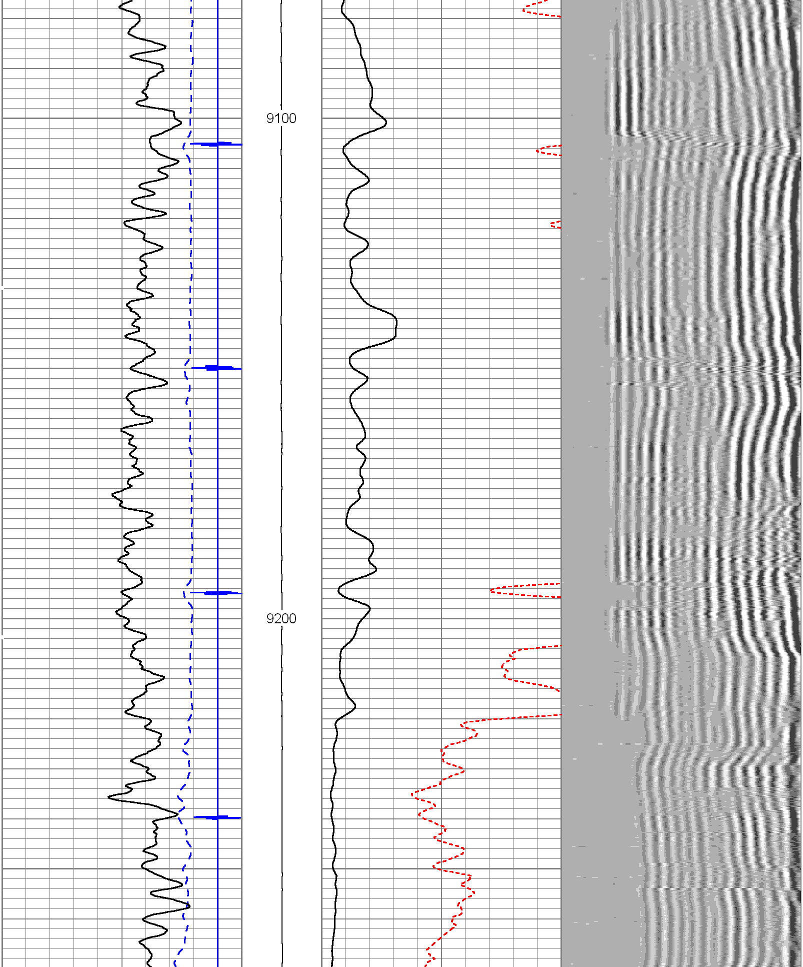


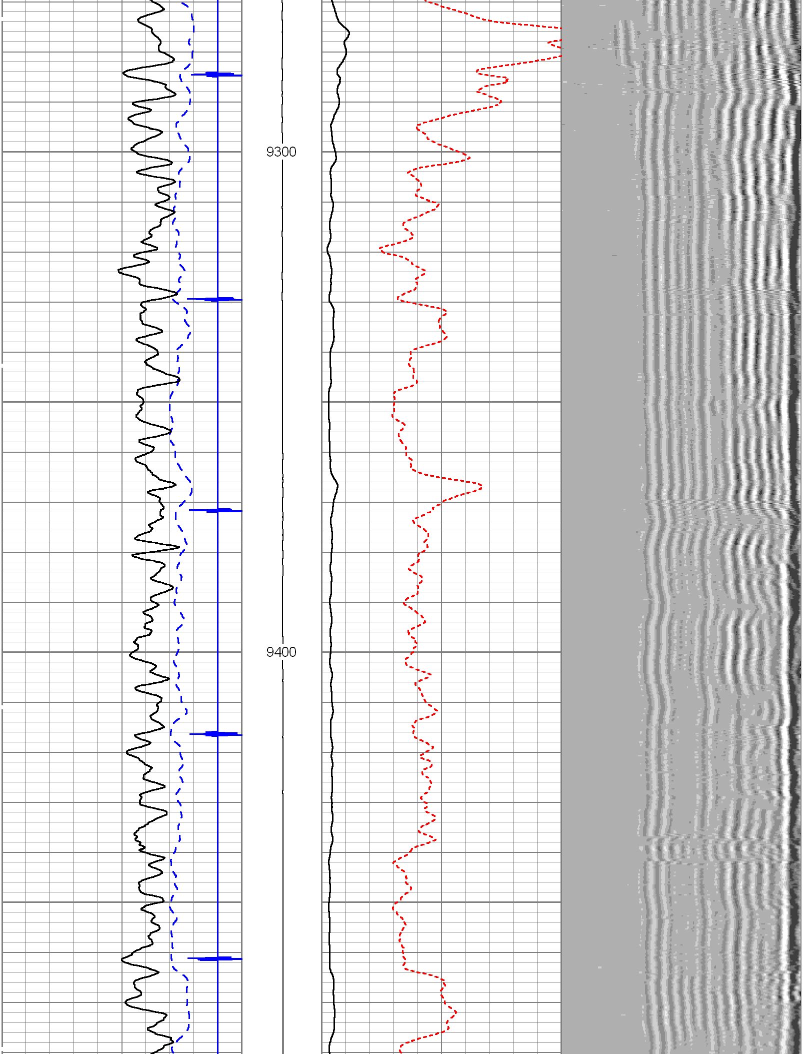


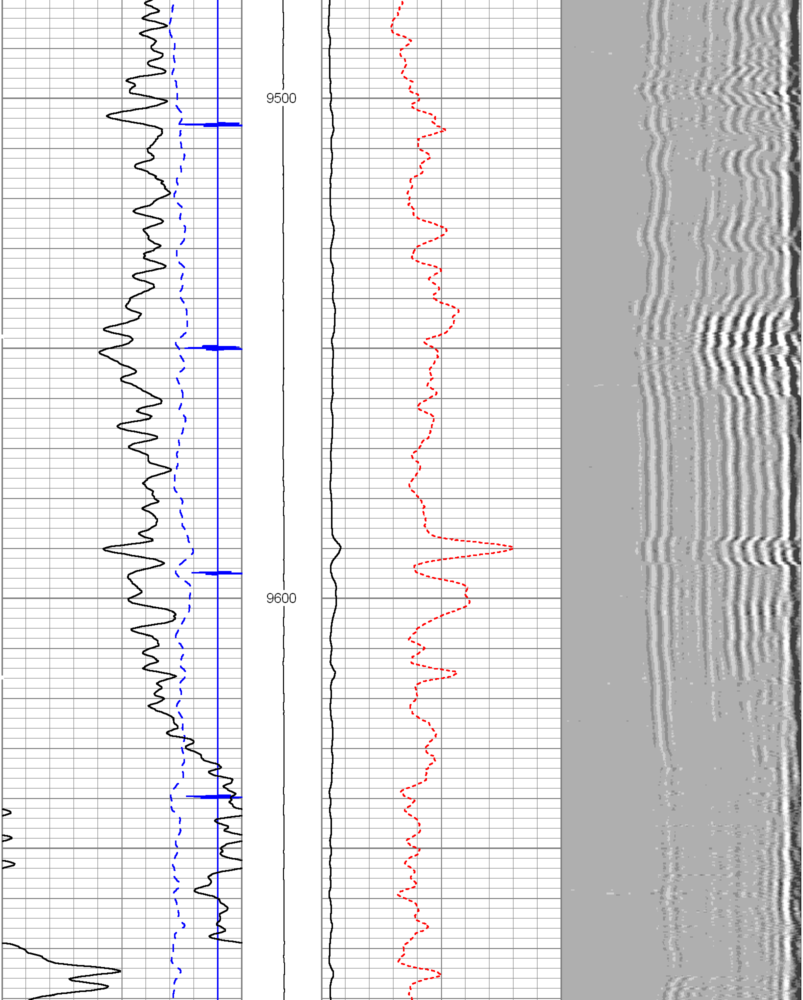


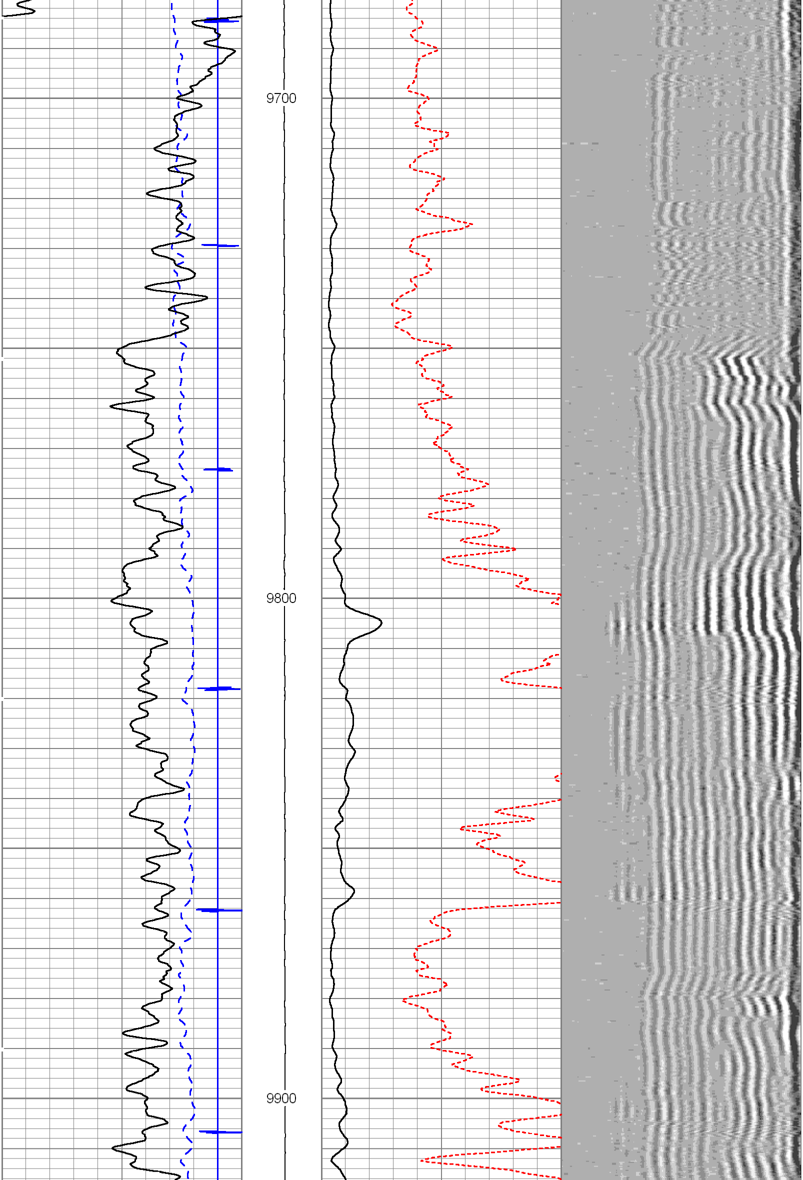


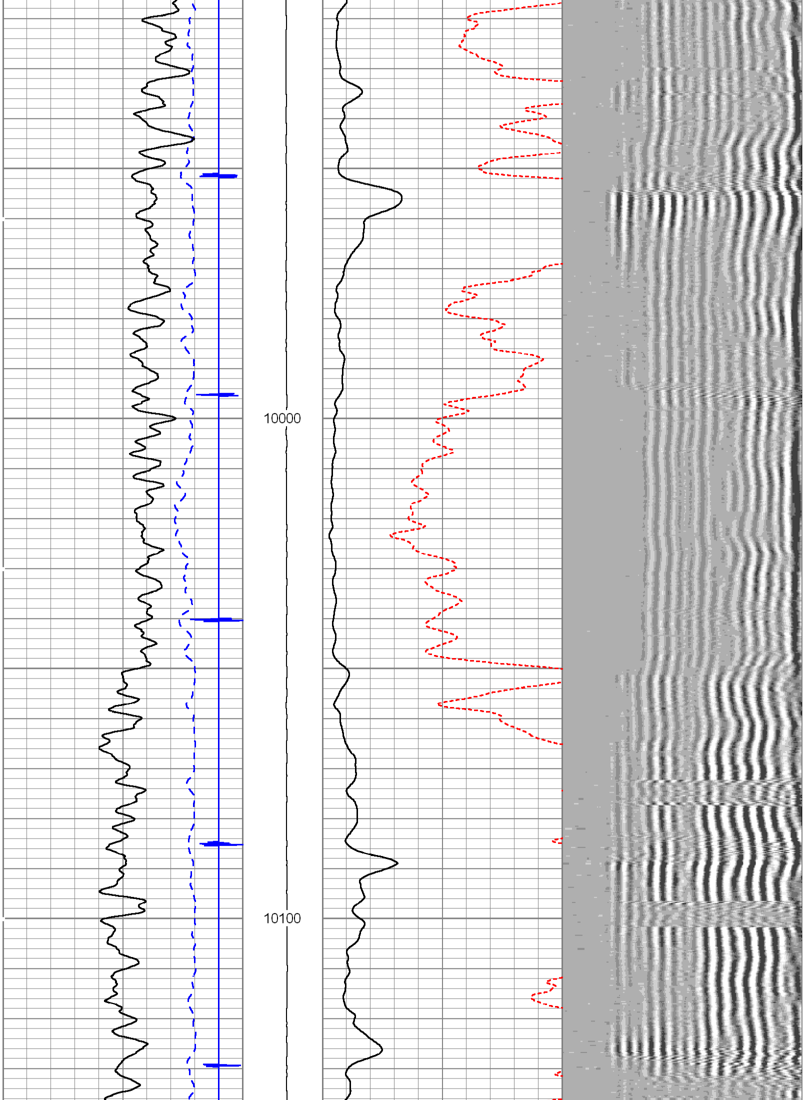


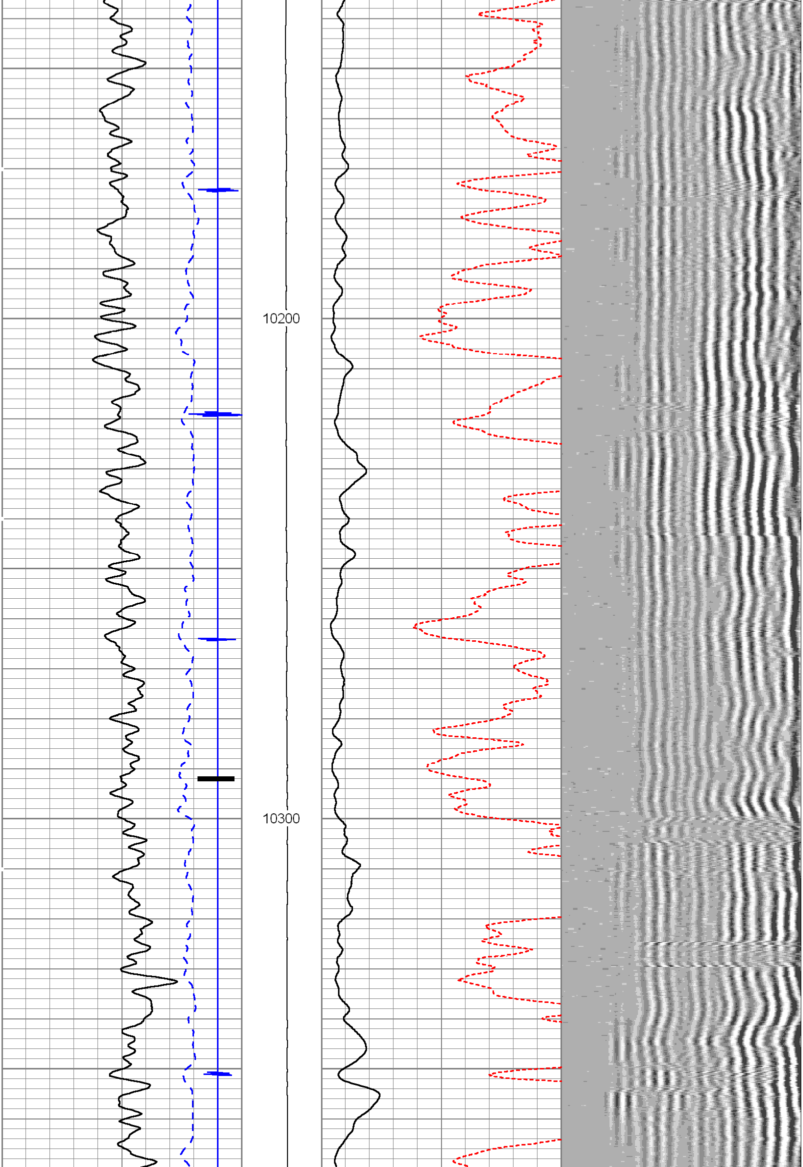


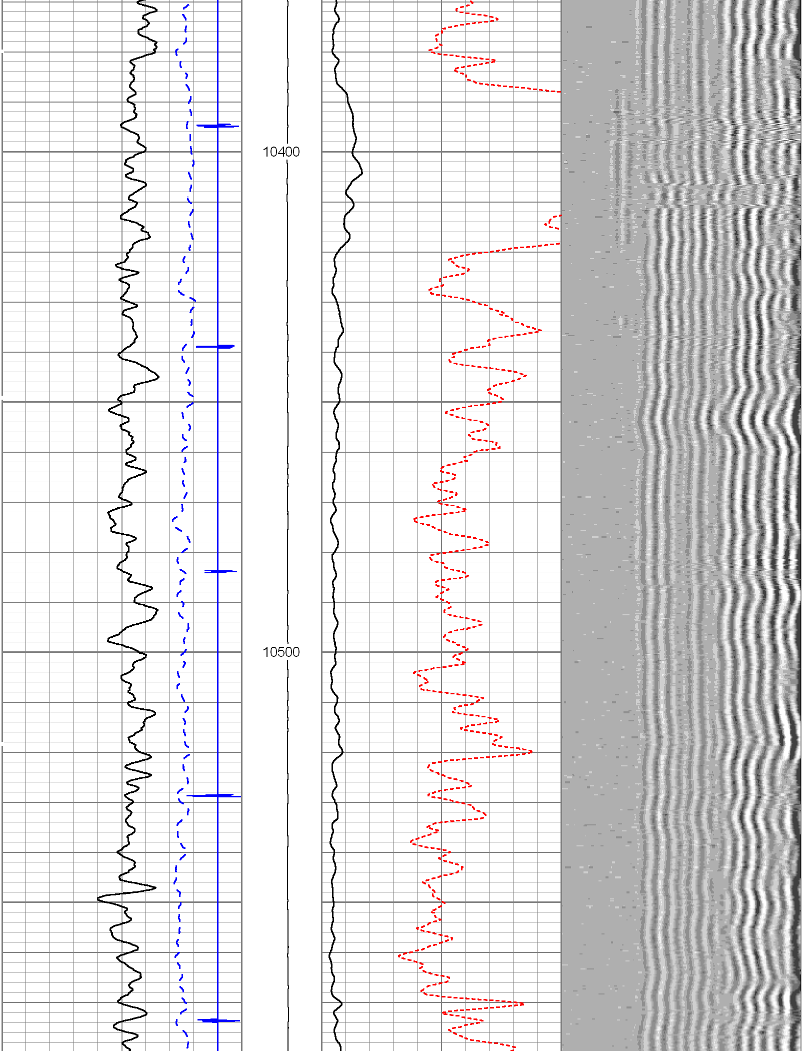


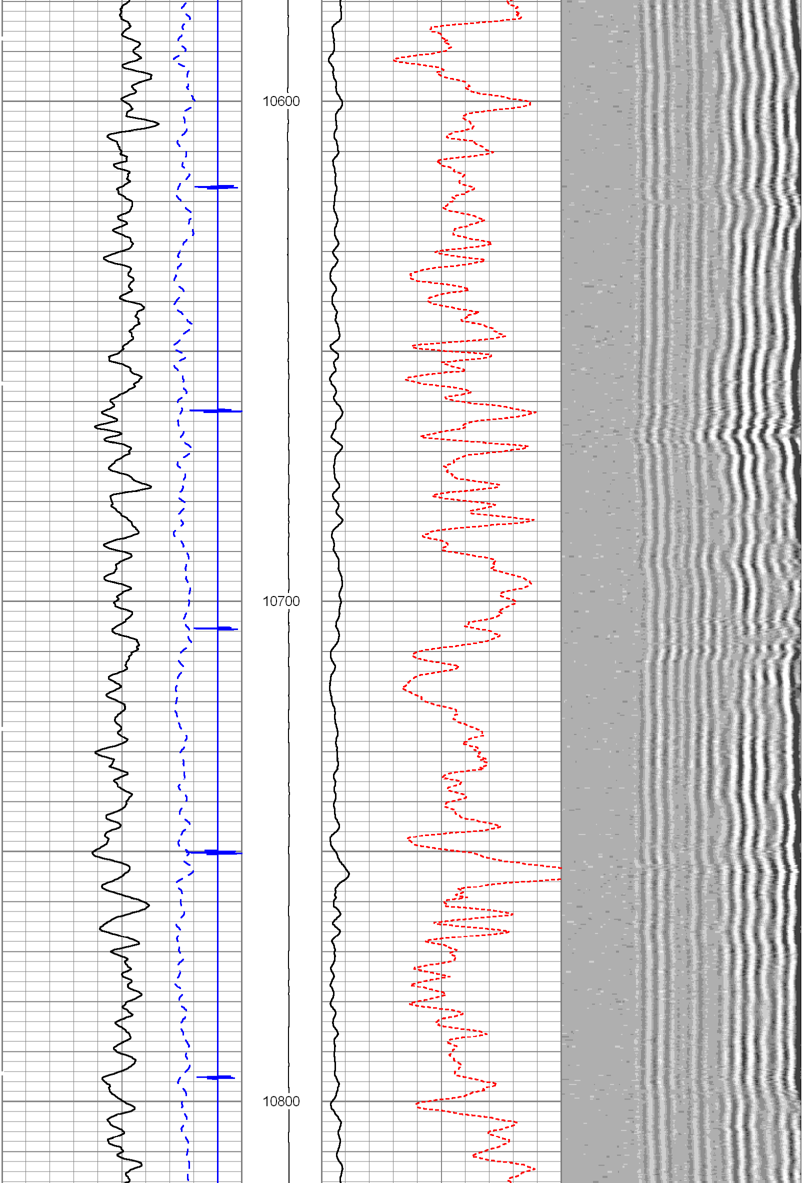


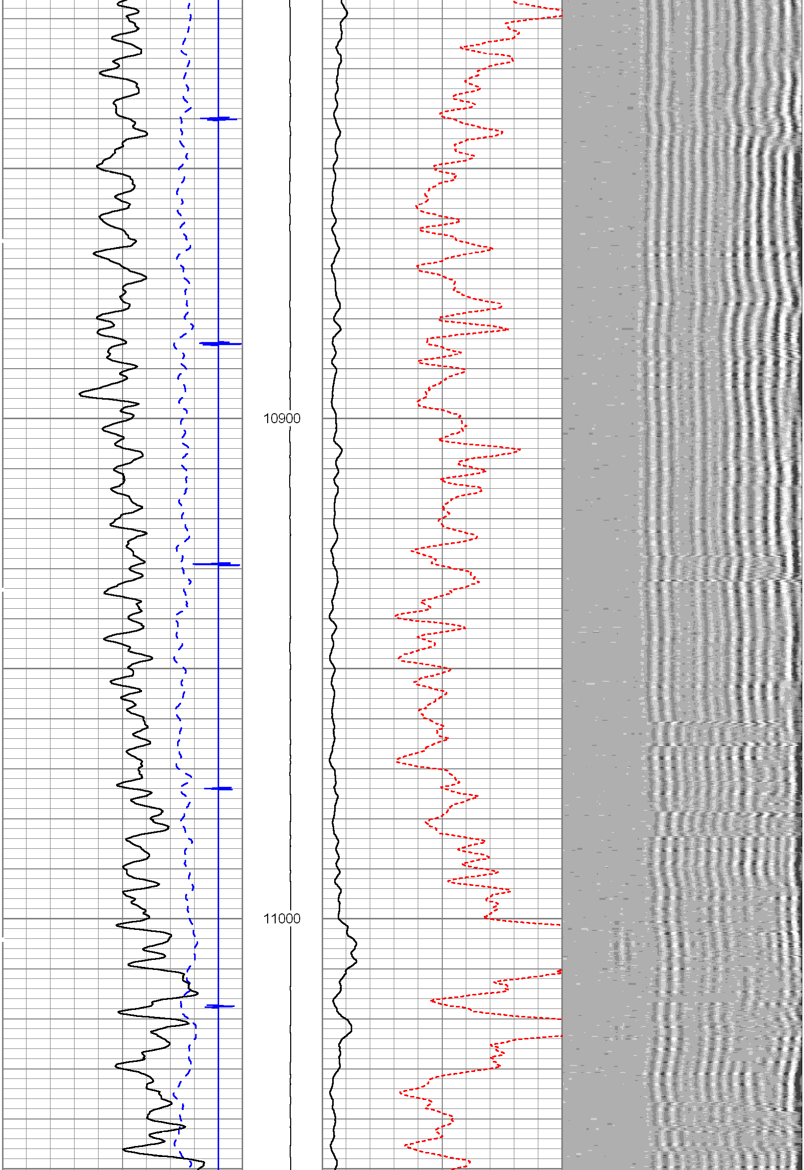


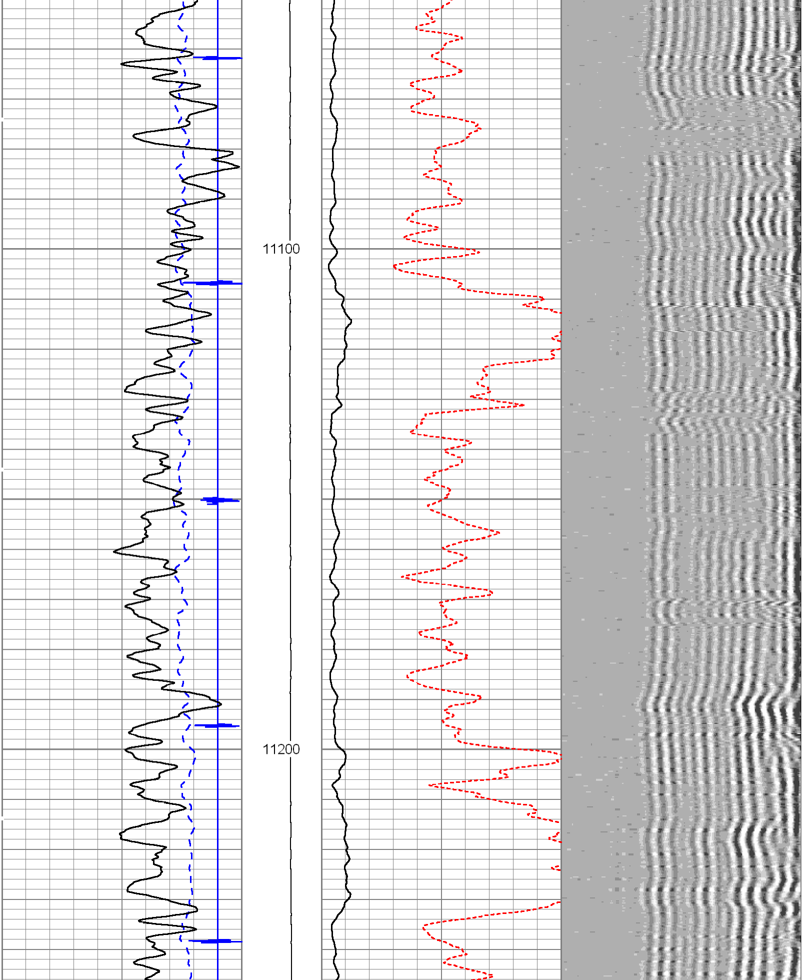


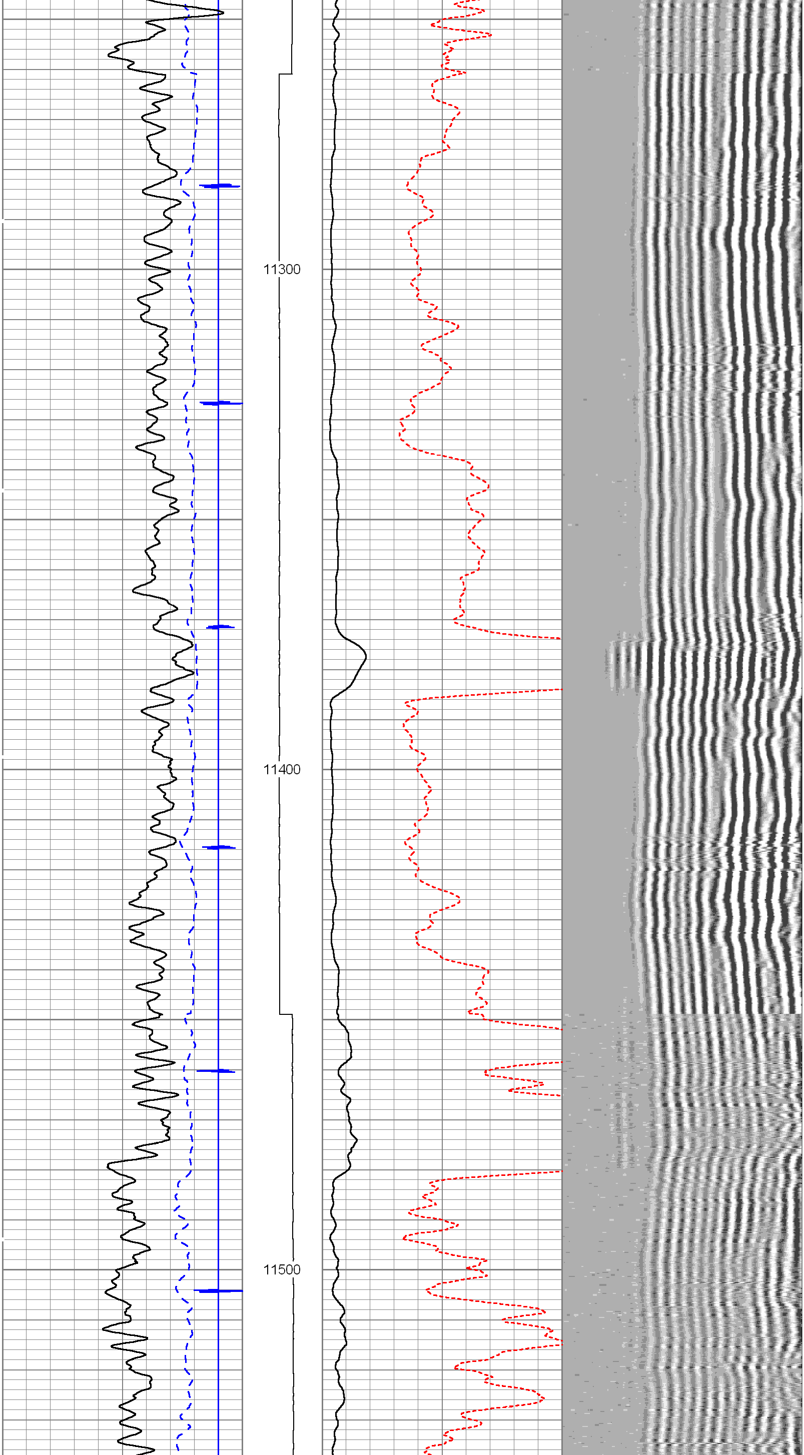


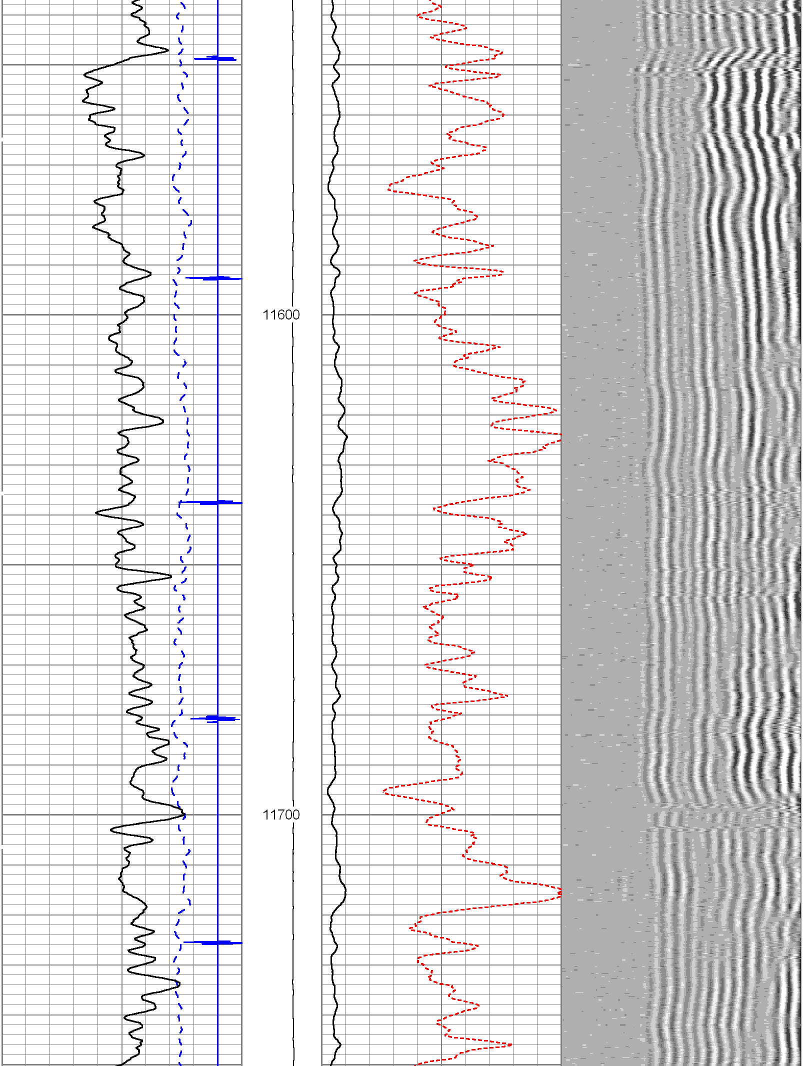


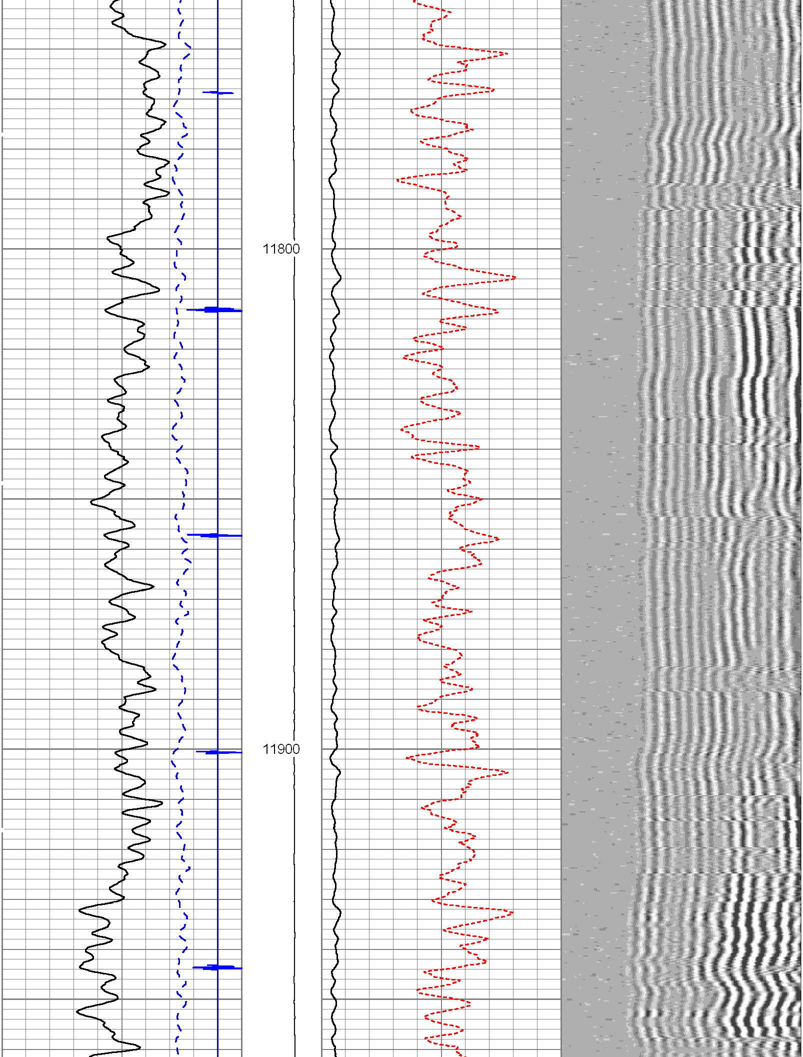


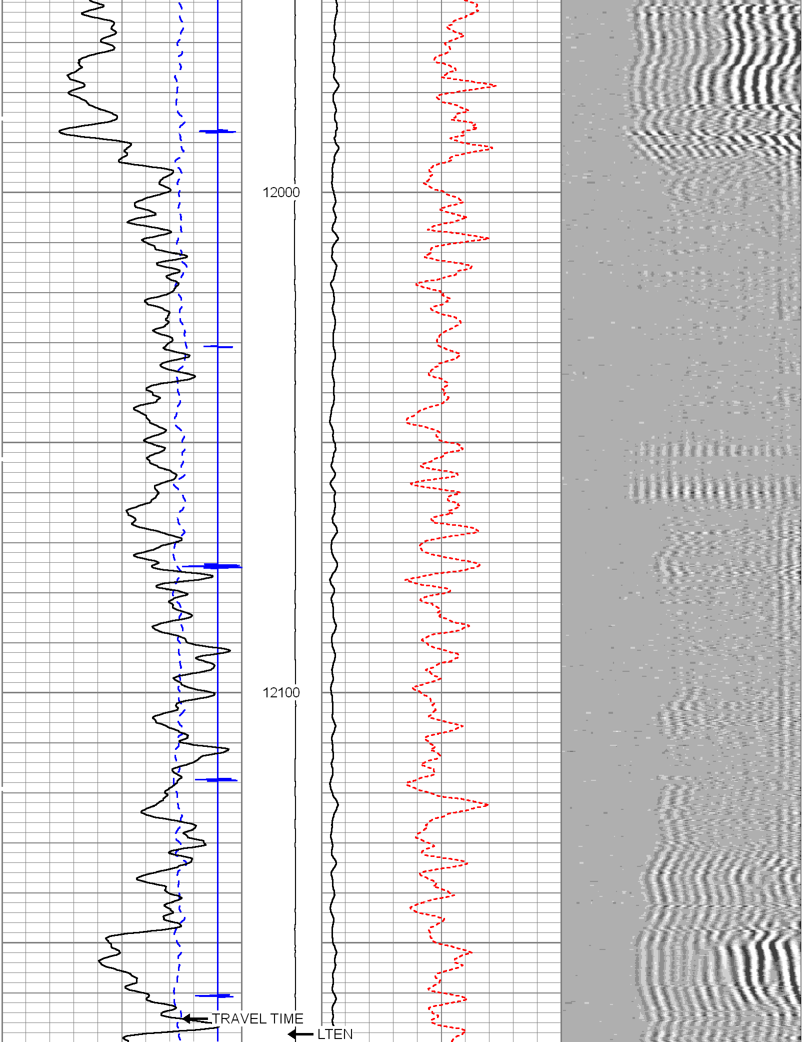


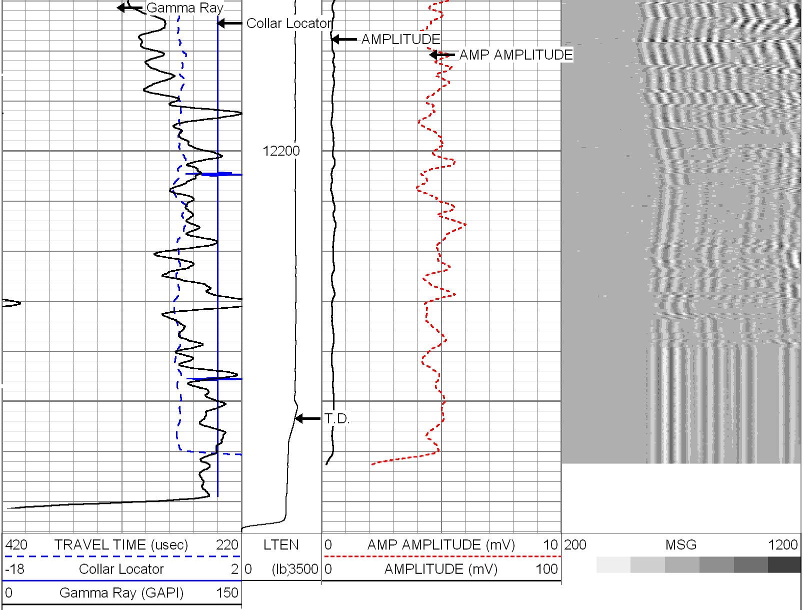












HALLIBURTON

MAIN LOG SECTION

5"=100'

HALLIBURTON

FREE PIPE LOG SECTION

5"=100'

Database File: c:\warrior\data\laramie\bruton_19_14b\bruton_19_14b_cb_t.db
Dataset Pathname: WILDCAT/BRUTON191/run1/F_PIPE1
Presentation Format: cbl_main
Dataset Creation: Thu May 19 07:18:06 2011
Charted by: Depth in Feet scaled 1:240

420 TRAVEL TIME (usec) 220

-18 Collar Locator 2

0 Gamma Ray (GAPI) 150

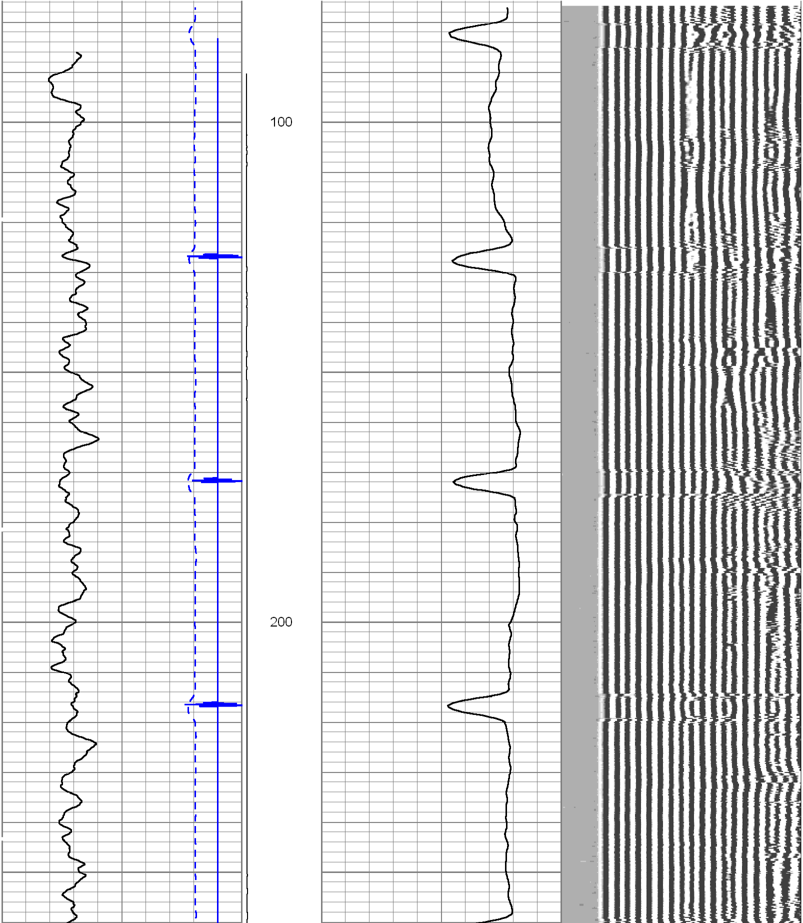
LTEN

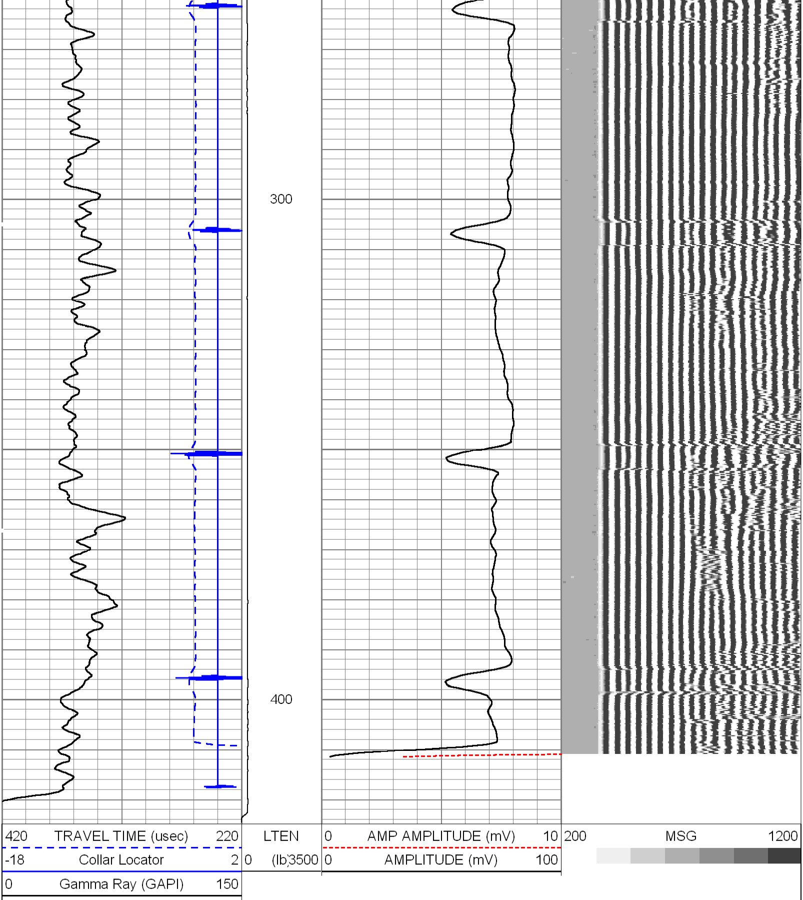
0 (lb) 3500

0 AMP AMPLITUDE (mV) 10

0 AMPLITUDE (mV) 100

200 MSG 1200





HALLIBURTON

FREE PIPE LOG SECTION

5"=100'

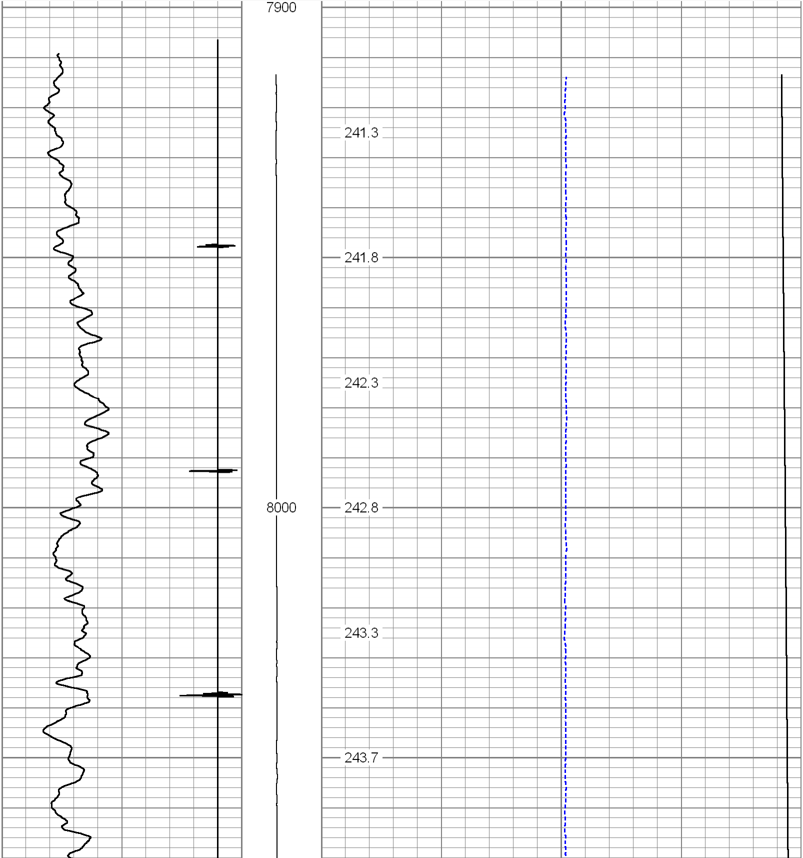
HALLIBURTON

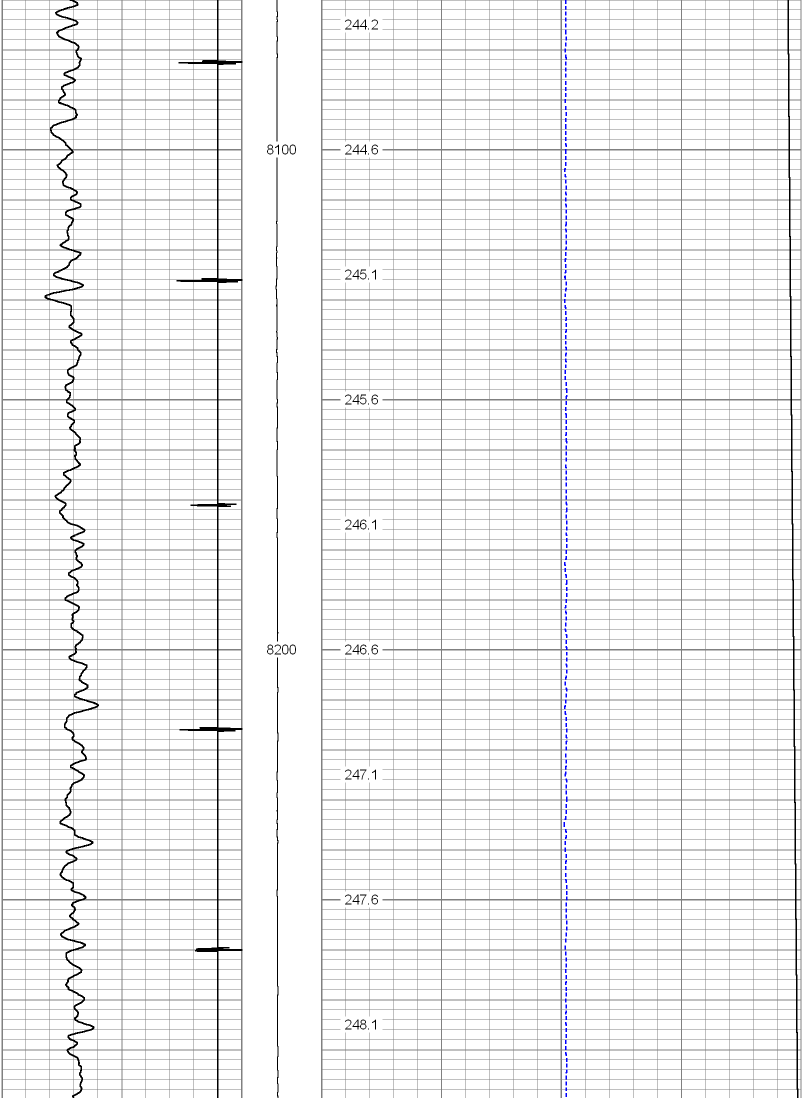
MAIN LOG SECTION -TEMPERATURE

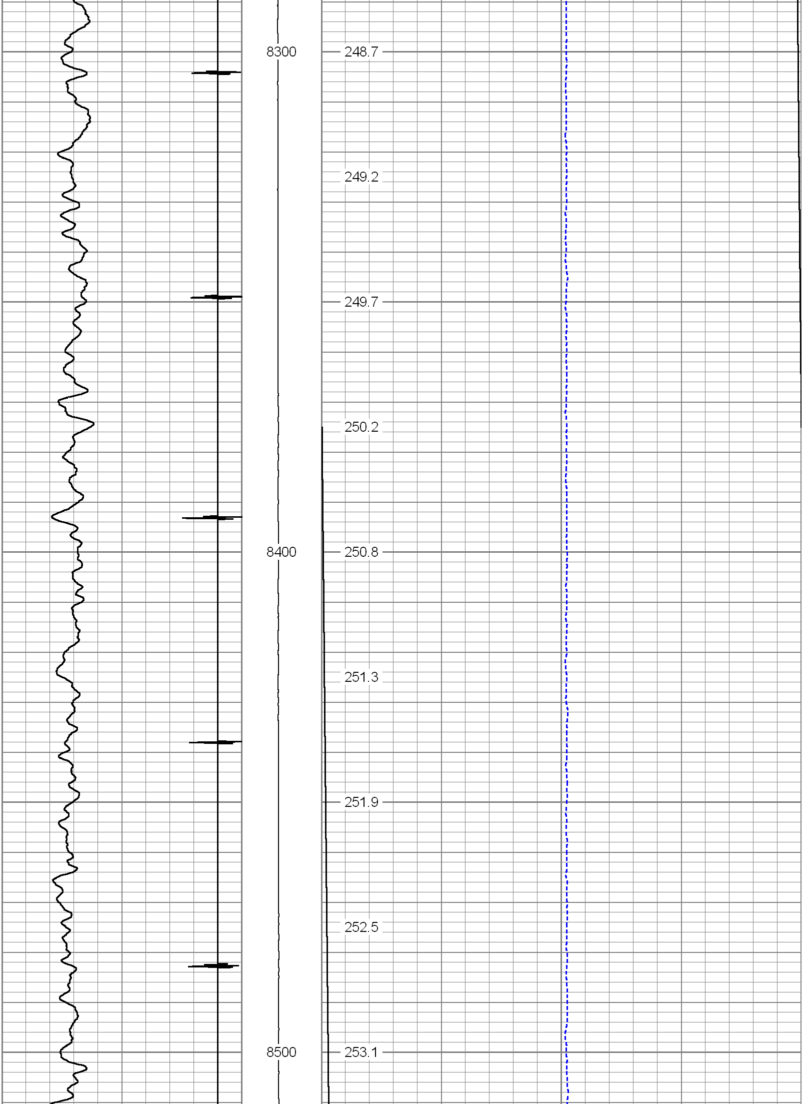
5"=100'

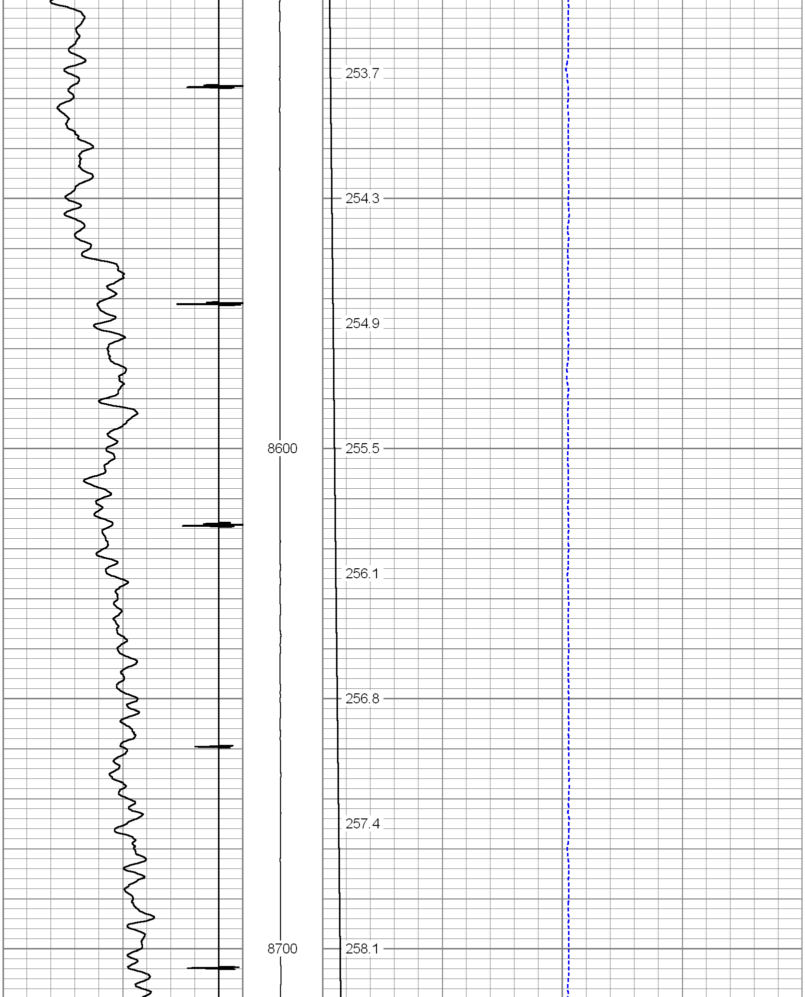
Database File:	c:\warrior\data\laramie\bruton_19_14b\bruton_19_14b_cb_t.db
Dataset Pathname:	WILDCAT/BRUTON191/run1/TEMPERATUR
Presentation Format:	temp
Dataset Creation:	Thu May 19 08:15:23 2011
Charted by:	Depth in Feet scaled 1:240

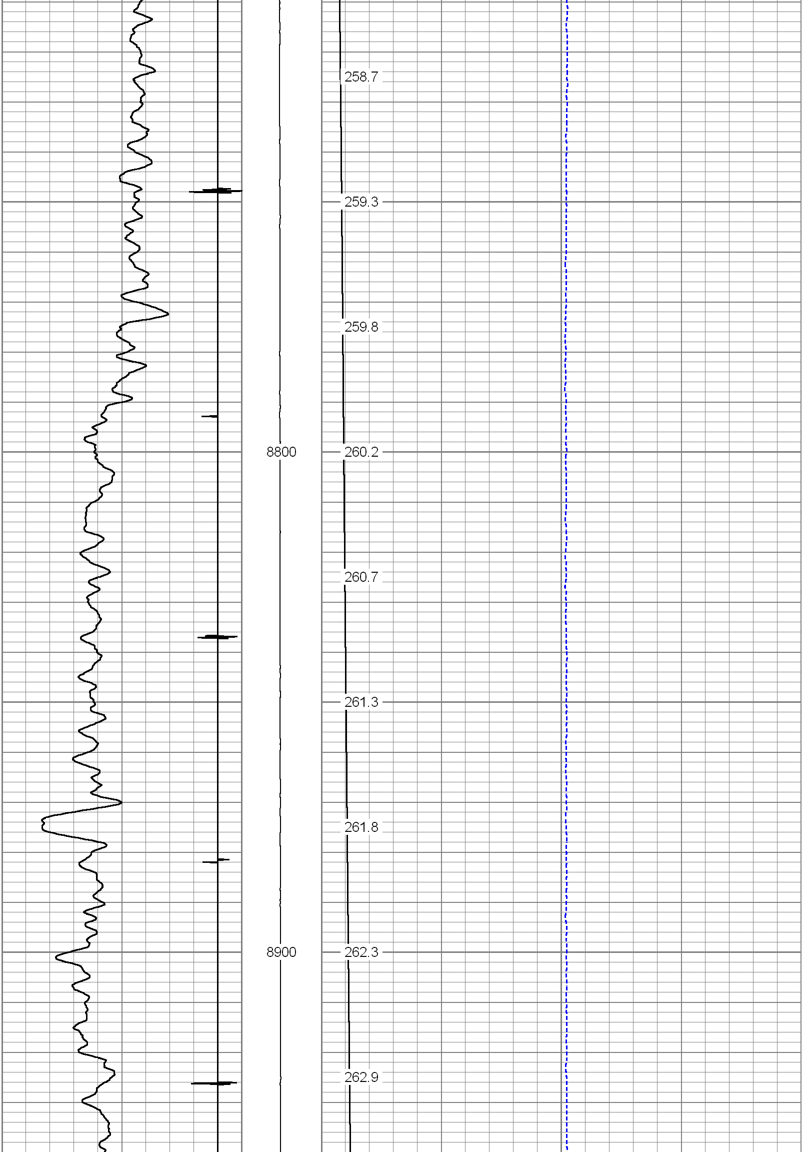
0 GR (GAPI) 200	LTEN	30 TEMP (degF) 250
18 CCL -2	0 (lb) 3500	-1 DTMP (degF) 1
		TEMP (degF)

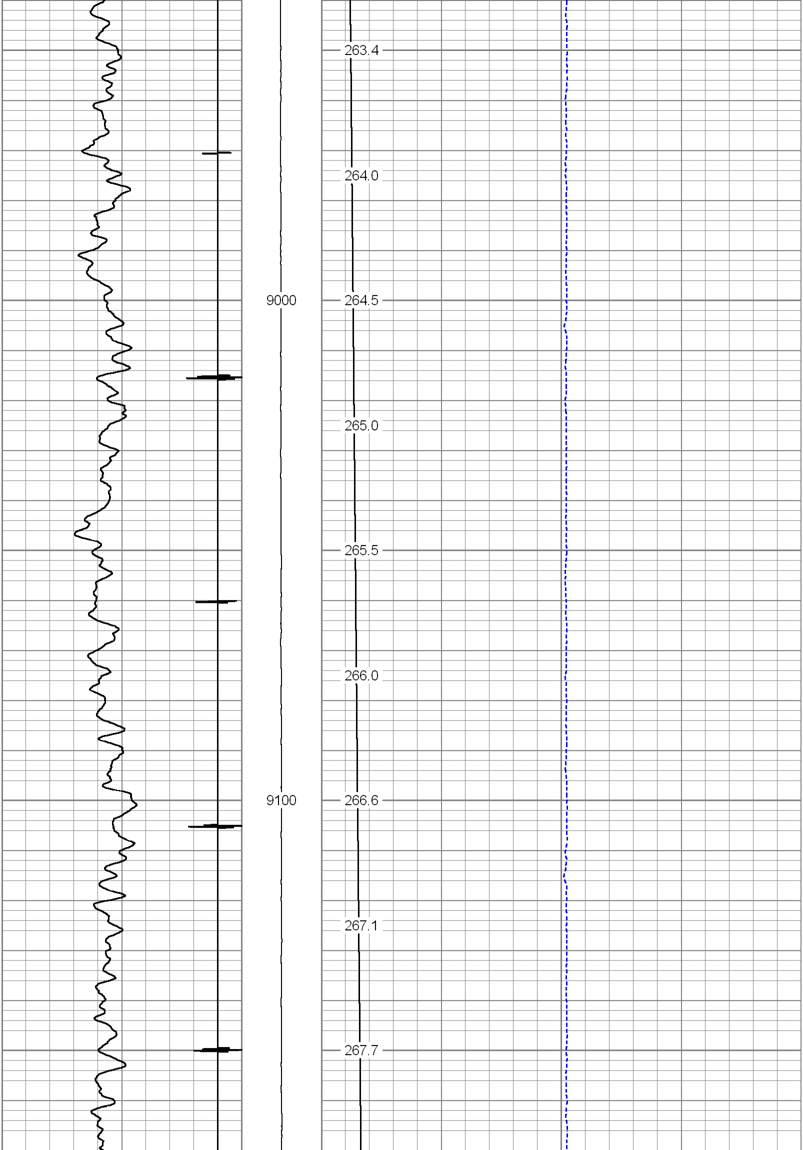


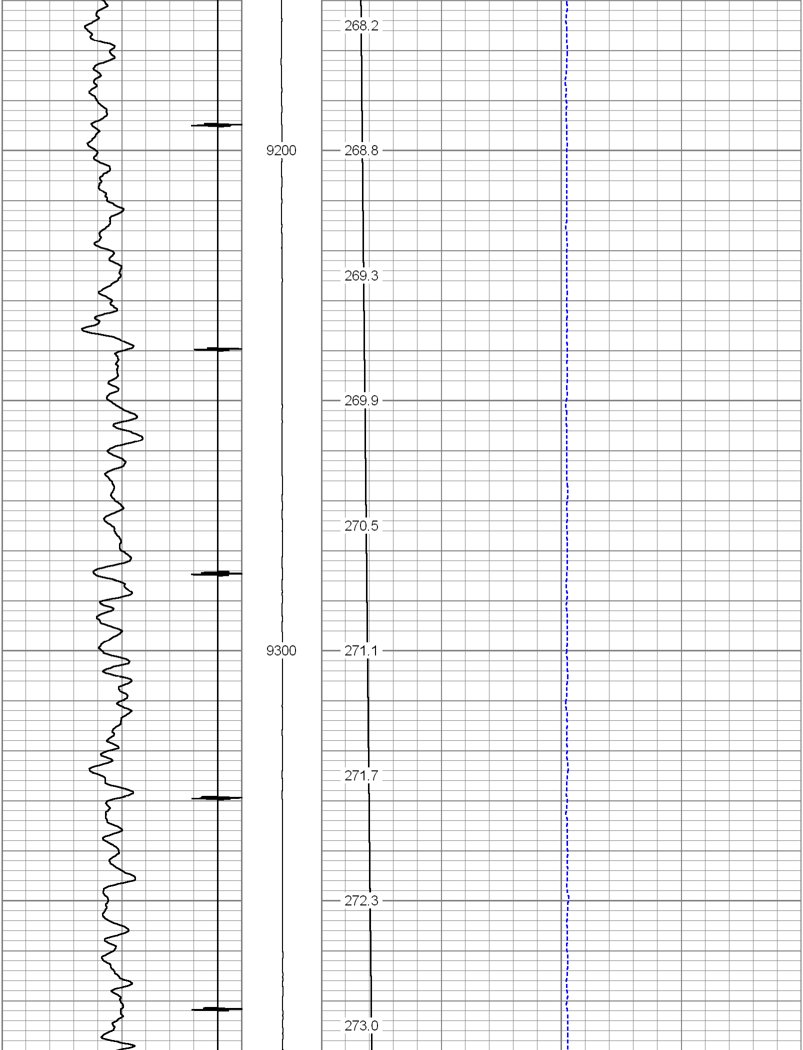


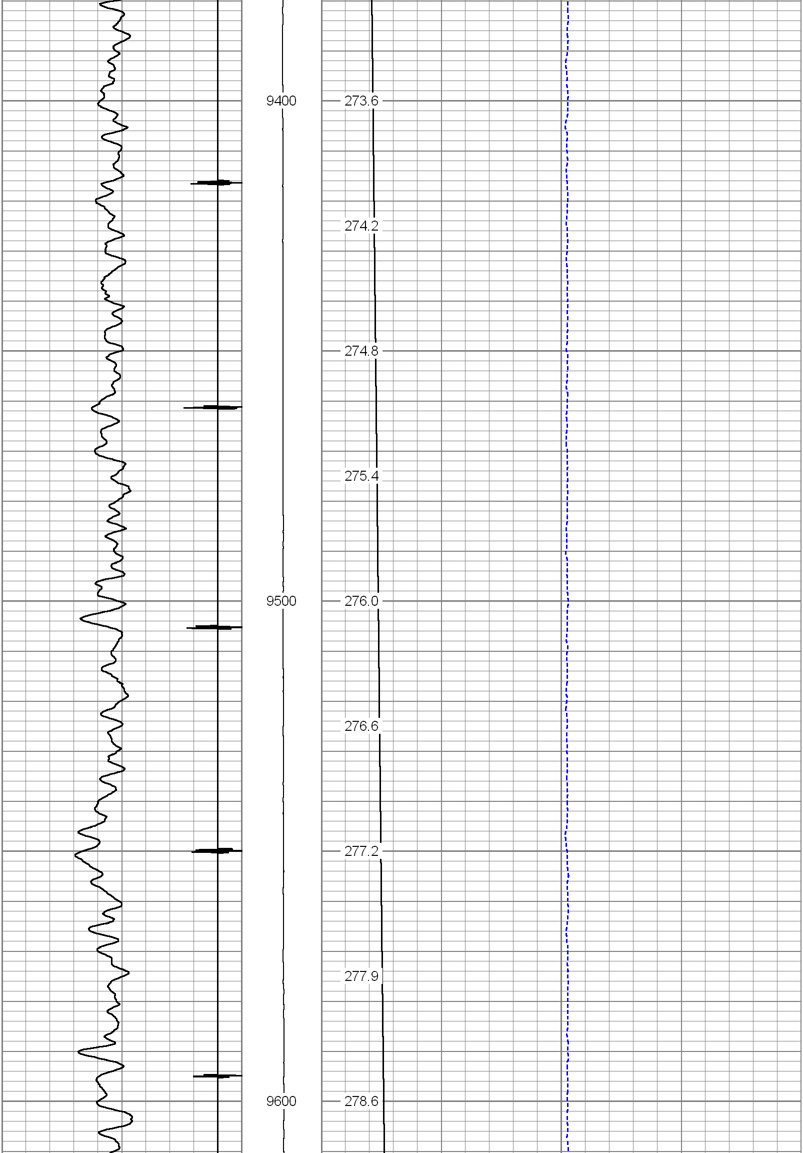


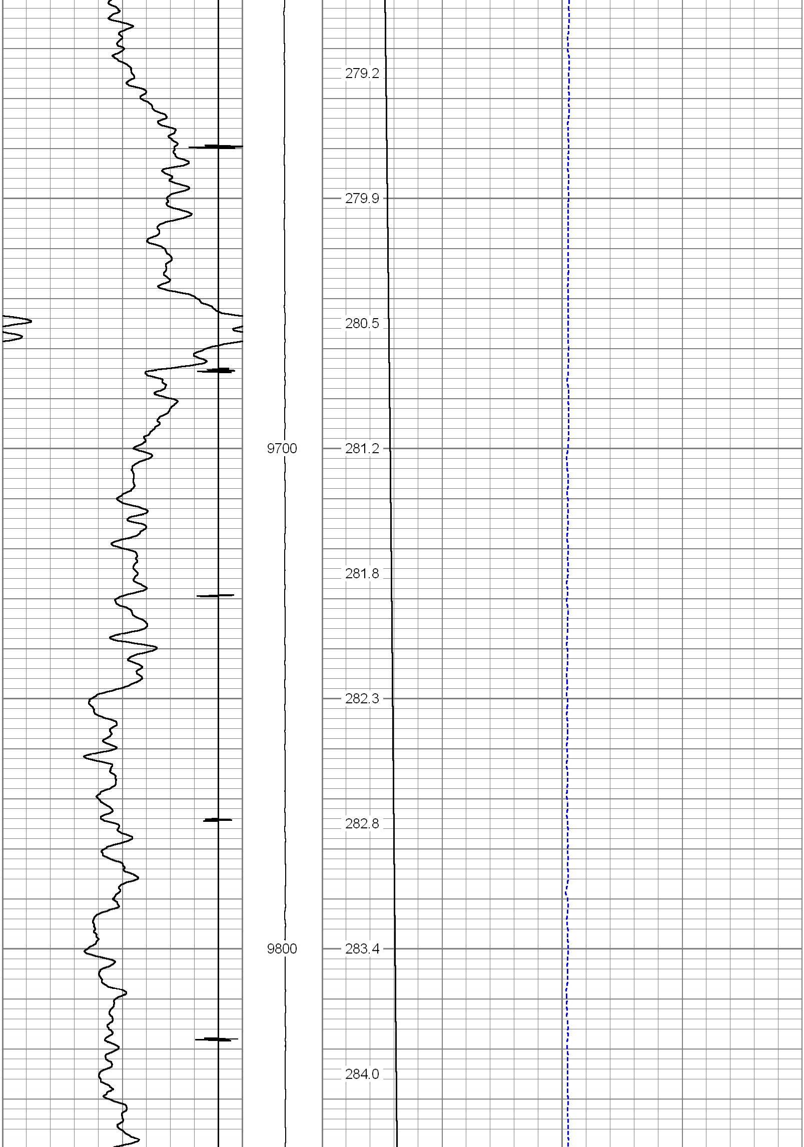


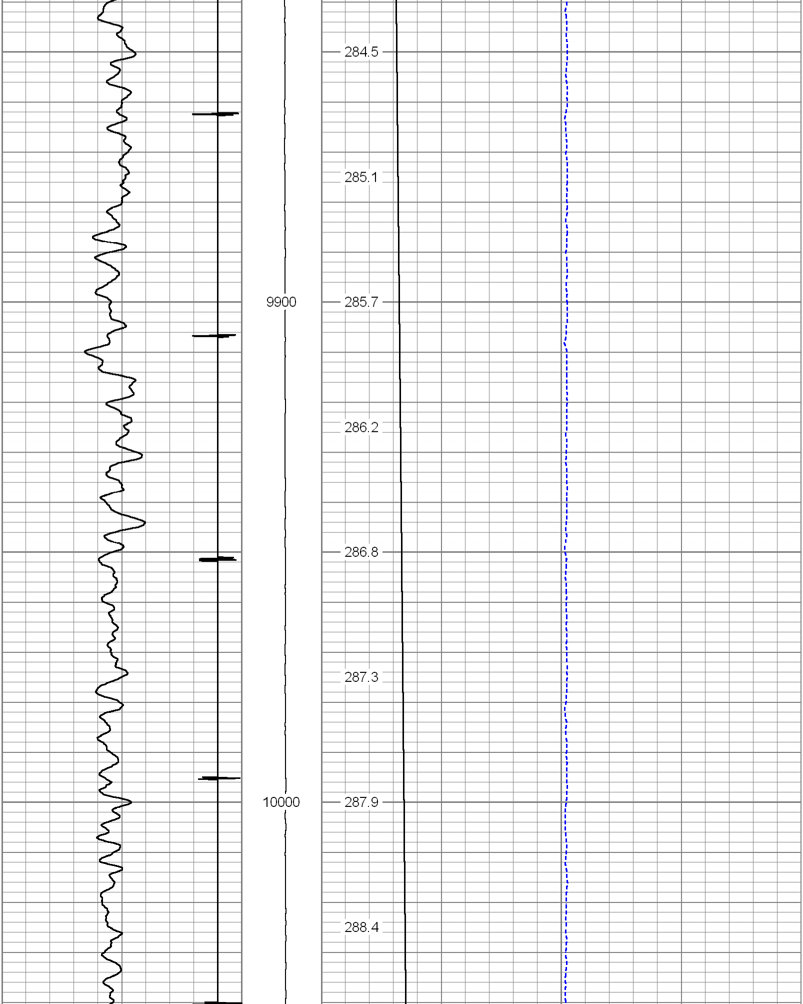


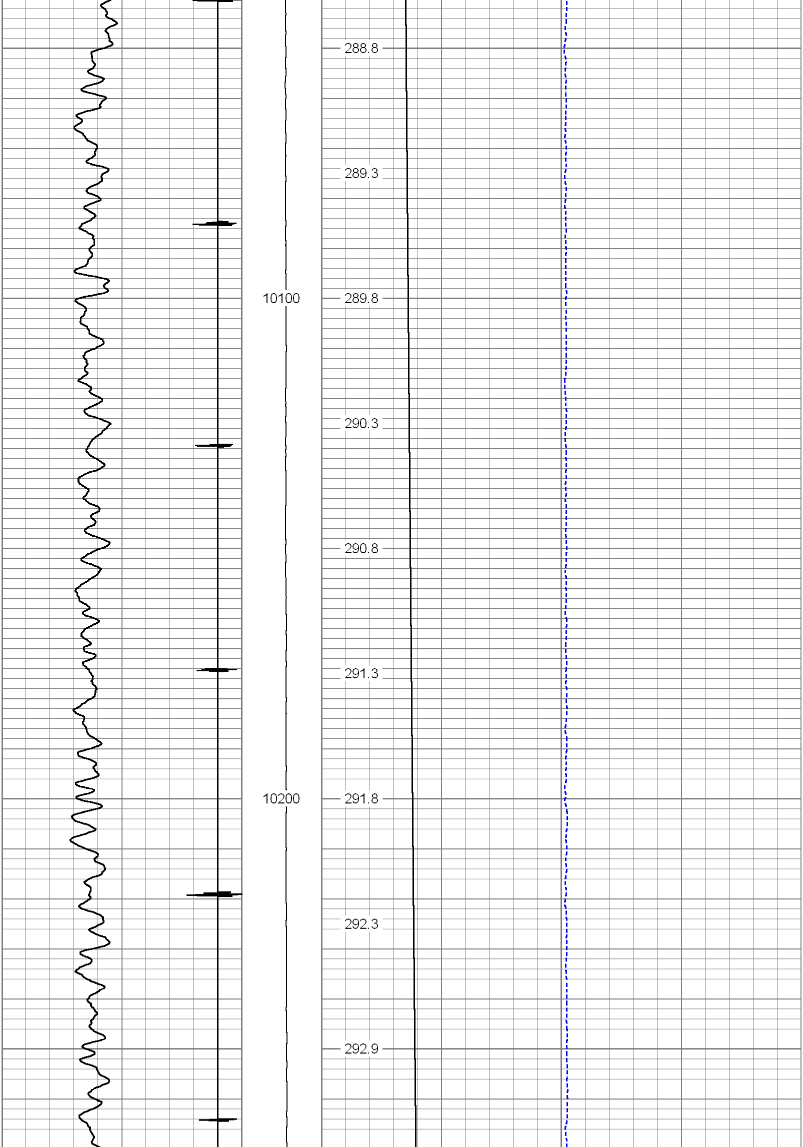


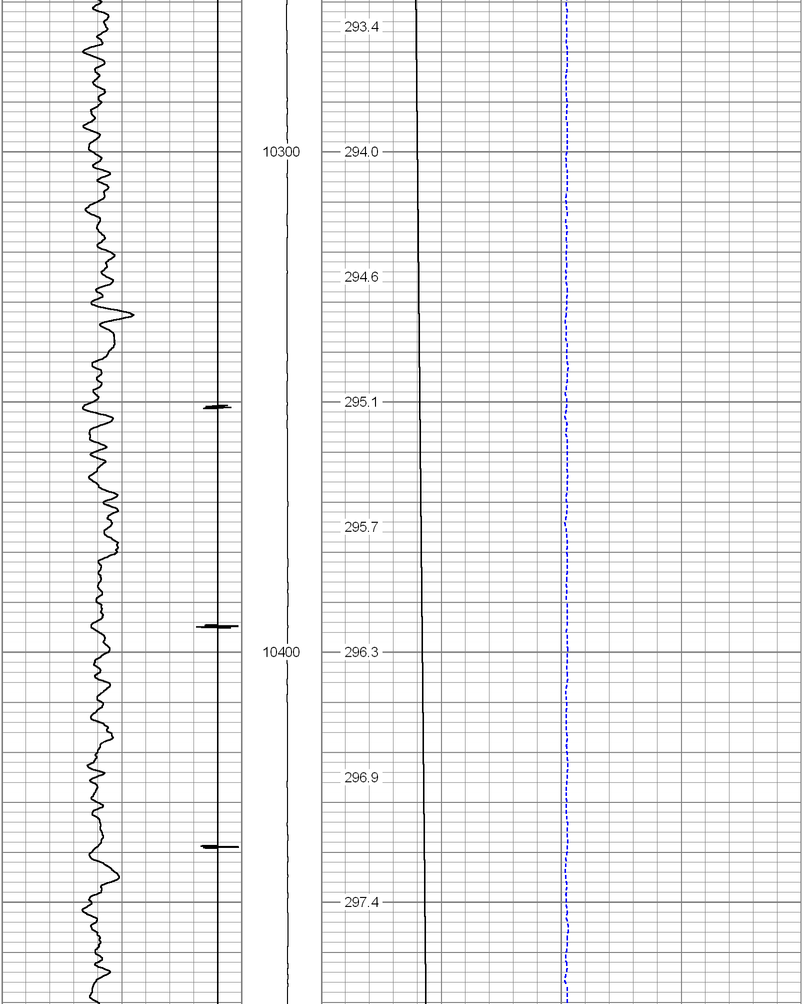


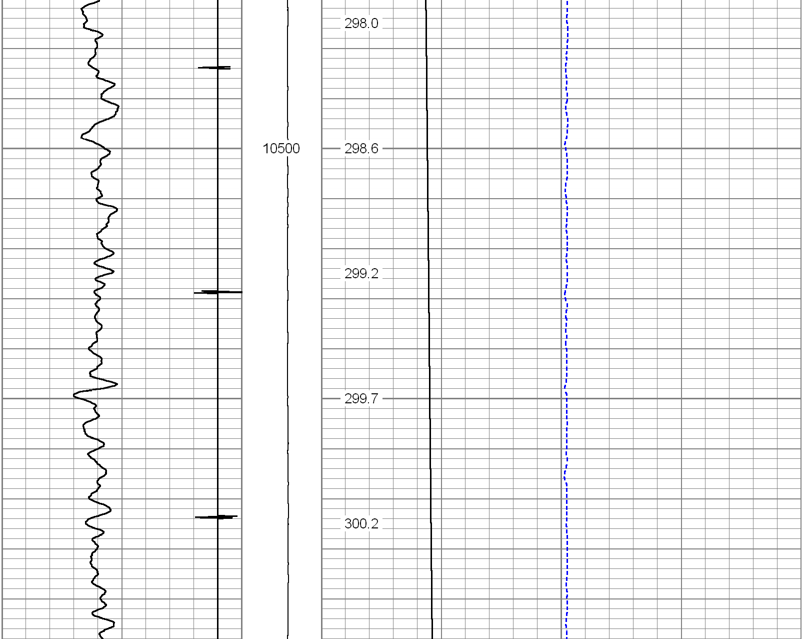


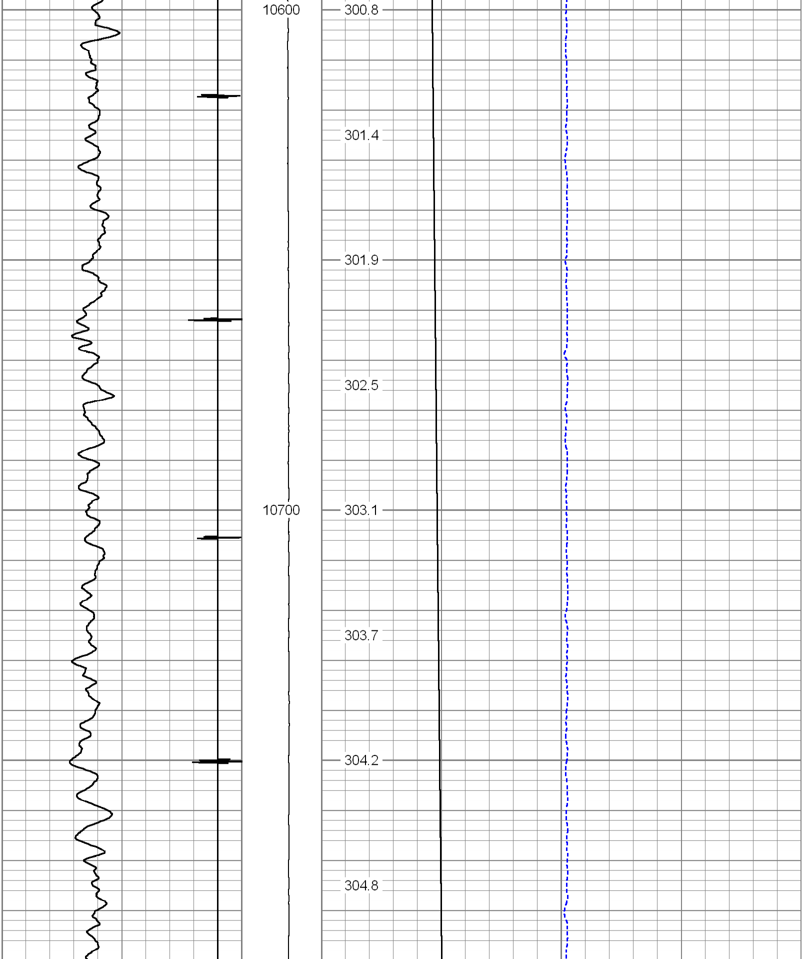


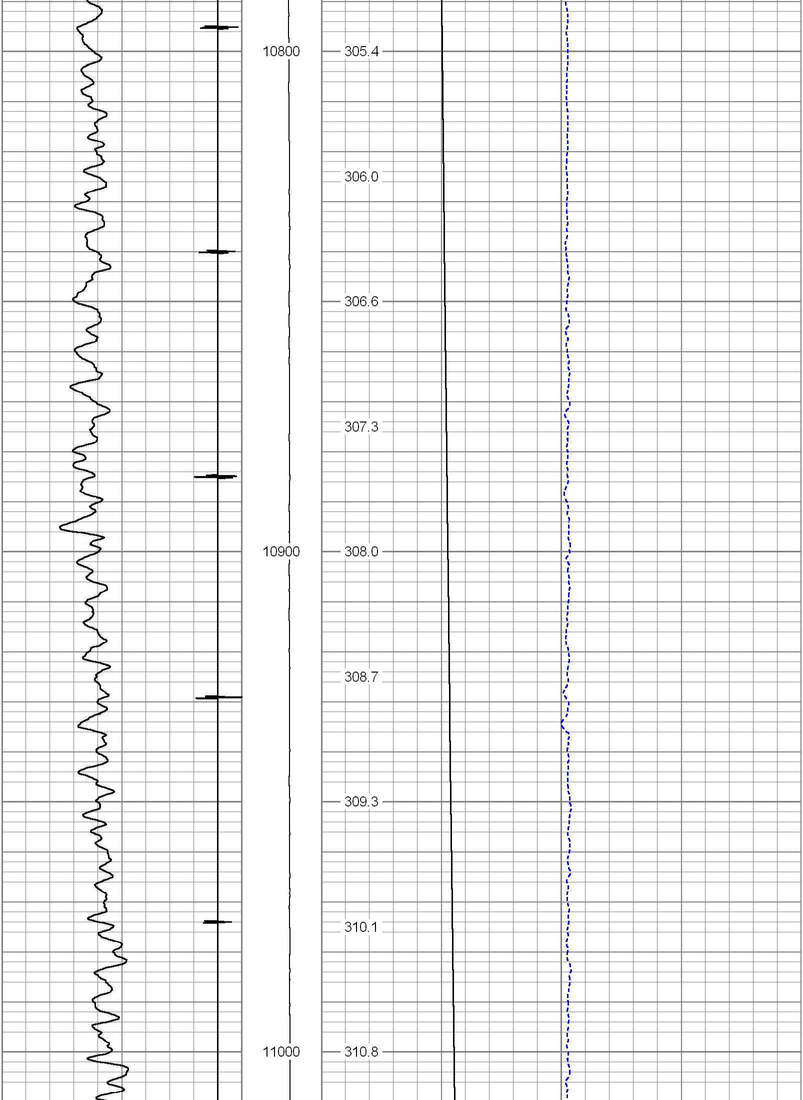


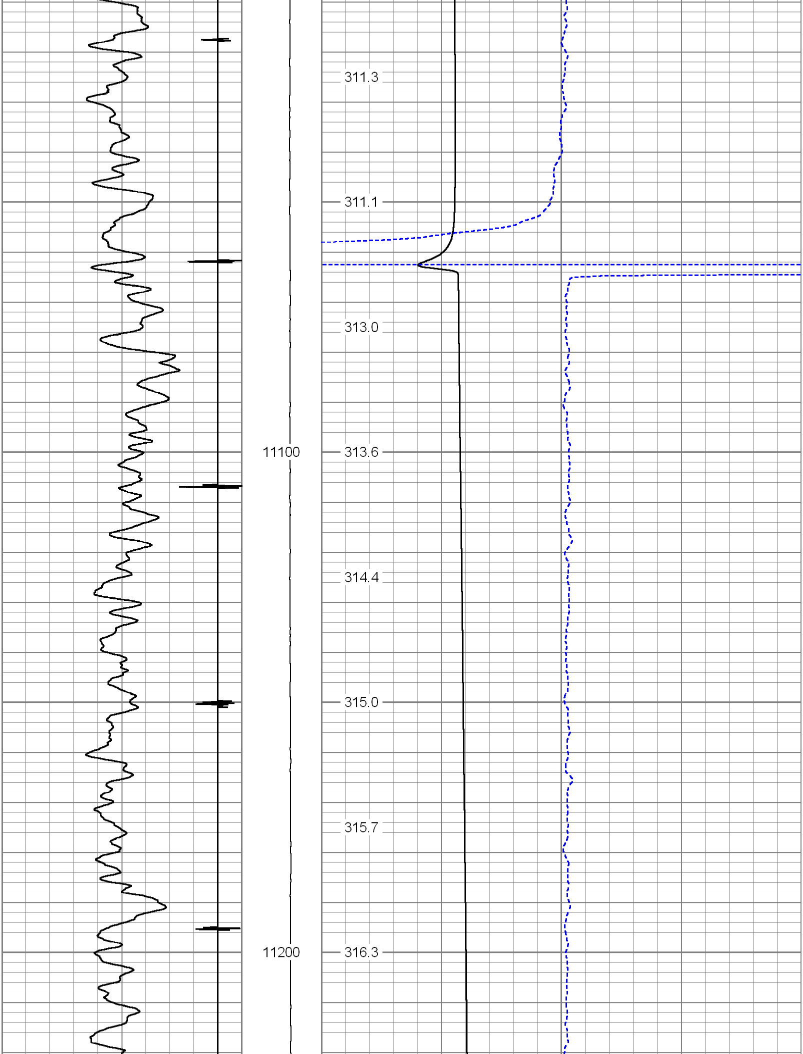


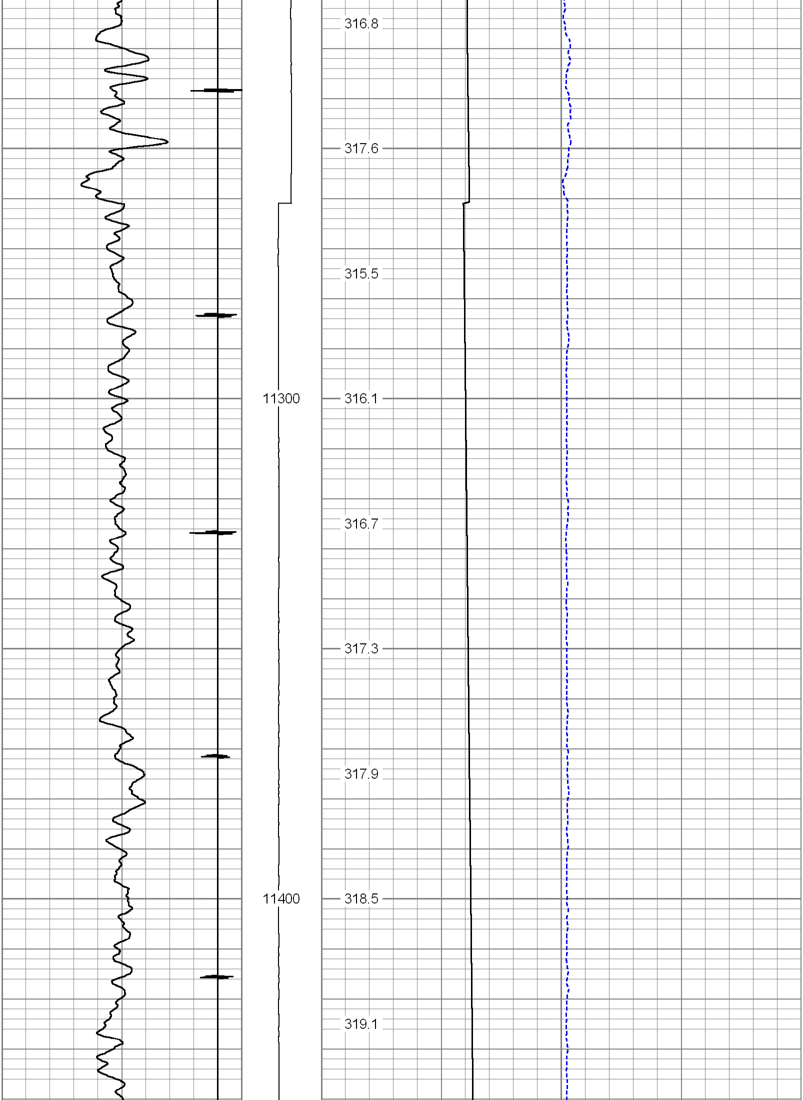


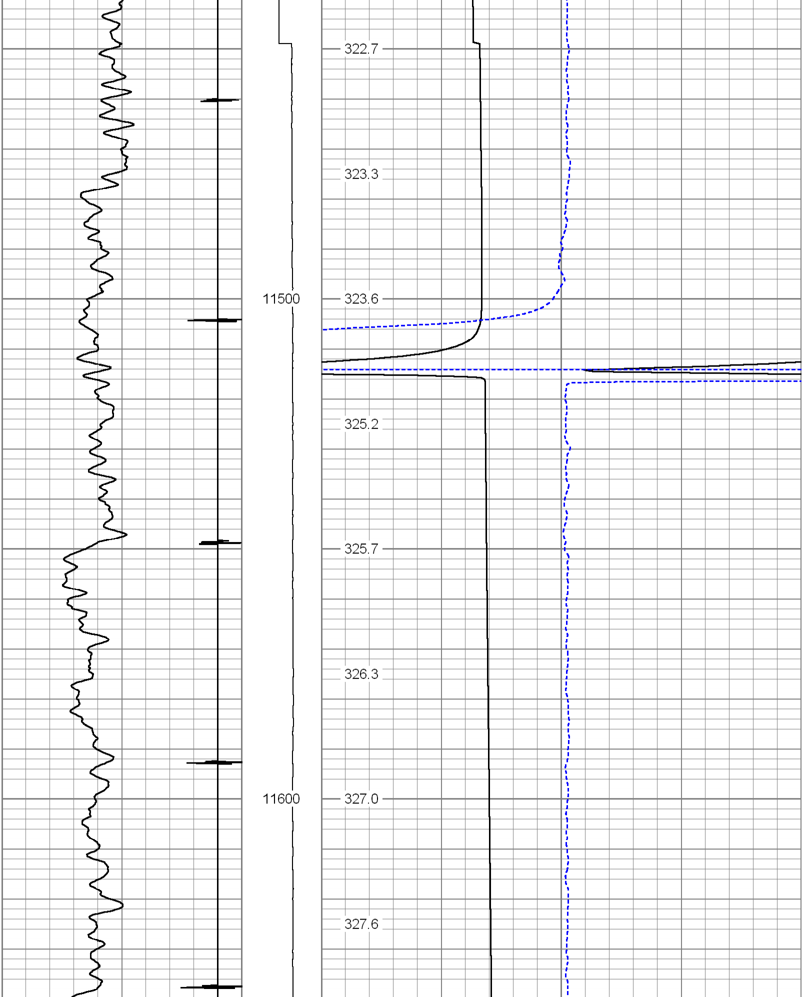


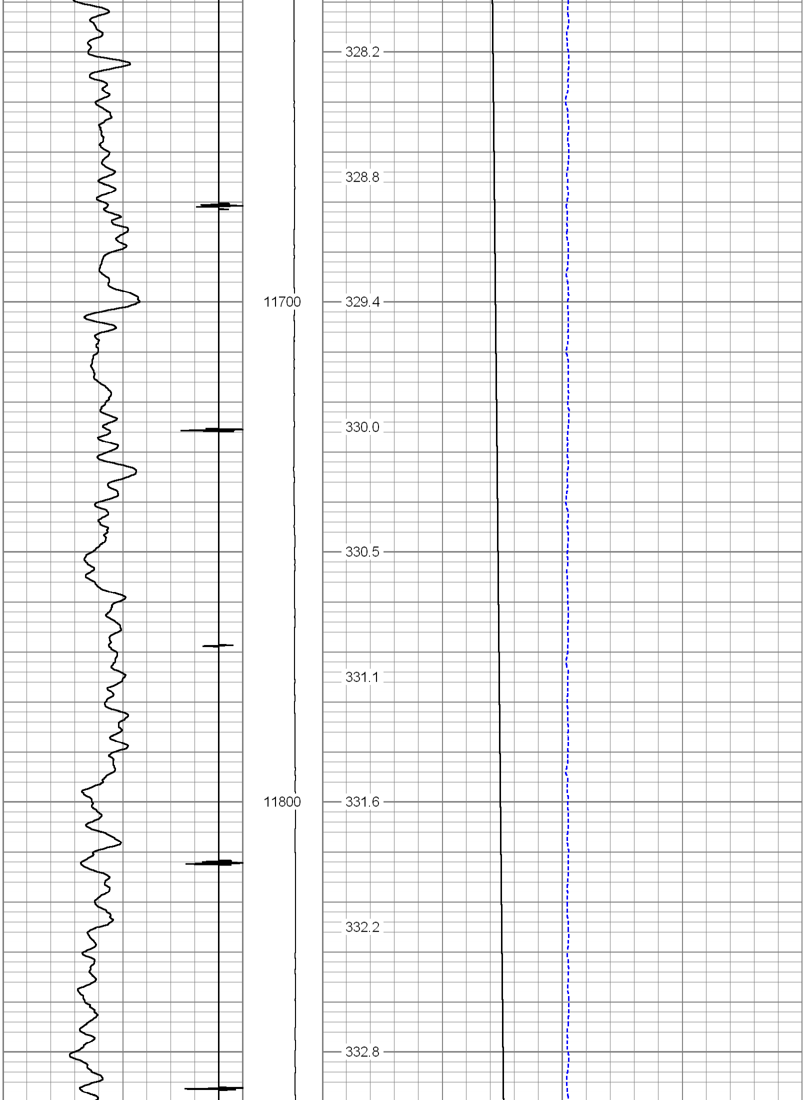


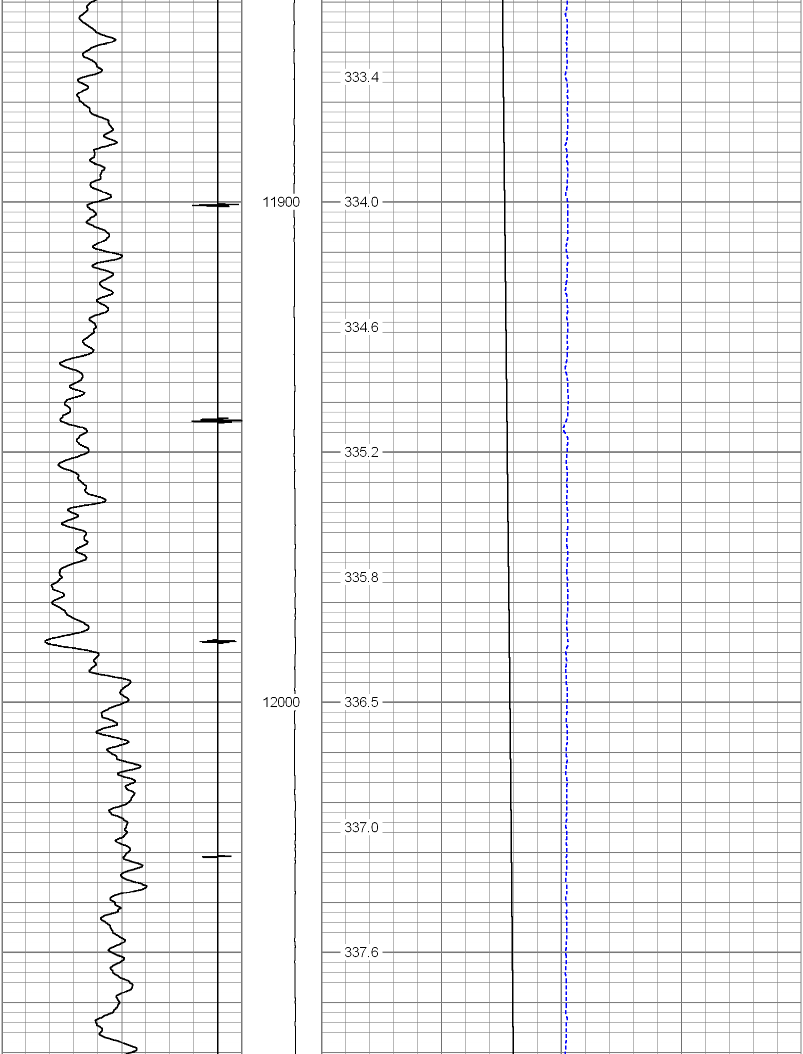


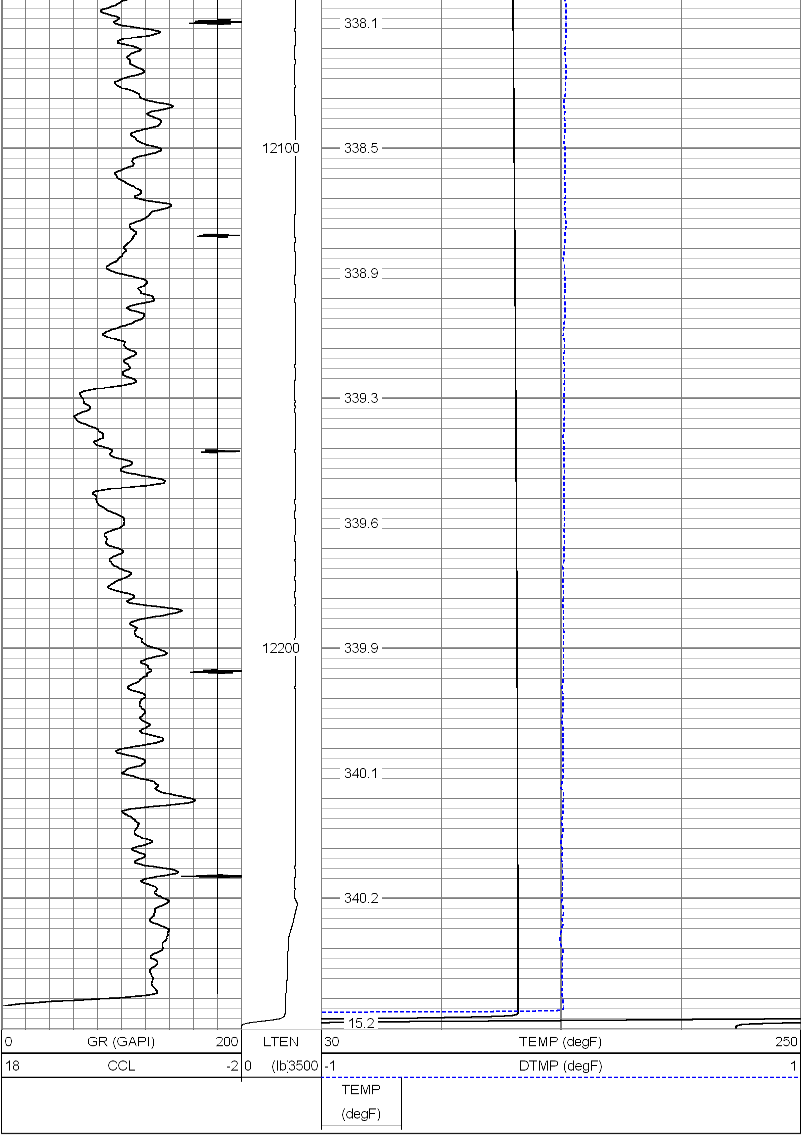








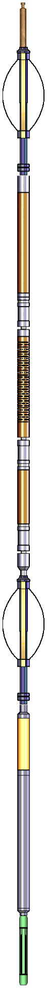




HALLIBURTON

MAIN LOG SECTION - TEMPERATURE

5"=100'

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STND_CH 1.4375 IN CABLE HEAD	1.00	1.44	1.00
			CENT-Probe (PTS_MONO) Probe 2 3/4 Centralizer	2.88	2.75	35.00
WVF3	13.32		CBL-Probe (080544) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
WVF5	12.32					
			CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	2.88	2.75	35.00
CCL	5.49					
GR	4.08		GR-Probe (080924) Probe 2.75" 4 Channel Pulse	4.71	2.75	30.00
TEMP	0.08		TEMP-1.375TEMP (070602) Temperature Tool	1.54	1.38	30.00
LLMTEN	0.00					

Dataset:	bruton_19_14b_cb_t.db: WILDCAT/BRUTON191/run1/merge1
Total Length:	21.93 ft
Total Weight:	191.00 lb
O.D.	2.75 in

Calibration Report

Database File:	c:\warrior\data\laramie\bruton_19_14b\bruton_19_14b_cb_t.db
Dataset Pathname:	WILDCAT/BRUTON191/run1/TEMPERATUR
Dataset Creation:	Thu May 19 08:15:23 2011

Temperature Calibration Report

Serial Number:	070602
Tool Model:	1.375TEMP
Performed:	Sat Feb 19 11:37:07 2011

	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	1.00	degF	10.00	cps

Gain:	0.10
Offset:	0.00
Delta Spacing	1

Gamma Ray Calibration Report

Serial Number:	080924	
Tool Model:	Probe	
Performed:	Wed May 18 10:53:05 2011	
Calibrator Value:	230.0	GAPI
Background Reading:	89.5	cps
Calibrator Reading:	379.4	cps
Sensitivity:	0.7933	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	080544	
Tool Model:	Probe	
Performed:	Wed May 18 20:21:42 2011	
Depth:	137.03	ft
Casing Diameter:	4.5	in

	3' Spacing	5' Spacing	
Signal Zero:	2	2	mV
Calibrated Amplitude:	82	82	mV
Reading at Signal Zero:	-0.00012207	0.00102539	V
Reading in Free Pipe:	1.49736	1.12346	V
Gain:	92.96	124.01	
Offset:	2.00652	1.92692	

Company	LARAMIE ENERGY II LLC		
Well	BRUTON # 19-14B		
Field	BRUSH CREEK		
County	MESA	State	CO

HALLIBURTON

ACOUSTIC CEMENT
BOND LOG