Company CARRIZO
Well BRINGELSON RANCH 3-34-9-58
Field WILDCAT
County WELD State CO

HALLIBURTON

CEMENT BOND LOG

Company	CARRIZO
Well	BRINGELSON RANCH 3-34-9-58
Field	WILDCAT
County	WELD
State	CO

API No.: 05-123-36371 Serv #: 900369719
Location: SHL 297' FNL 1286' FEL
BHL 650' FSL 2440' FEL

Sec: 34 Twp: N9 Rge: 58W

Other Services
N/A

Permanent Datum	GL	Elevation 4732	Elevation	
Log Measured From	KB , 17 Ft. above perm. datum		K.B.	4749
Drilling Measured From	KB		D.F.	4748
			G.L.	4732

Date @ Time Logged	17-APRIL-2013	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.33
Depth - Driller	10187	Fluid Level	SURFACE
Depth - Logger	5054	Cement Top Est. Logged	2940
Bottom - Logged Interval	5042	Equipment / Location	11874896 / BRIGHTON
Top - Log Interval	550	Recorded by	JOSHUA MCDANIEL
Max. Recorded Temp.	119	Witnessed by	KIRK WILLIAMS

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	534 SACKS	565		
Cement Type / Weight	/	/	/	/
Formulation				
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record				Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
	12.25	0	1400	9.625	36	O	1400
	8.75	0	5877	7	23	0	5877
	6.25	5135	10187	4.5	11.6	5135	10187

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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 WHICH 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

FIRST LOG IN THE WELL

GAMMA CALLIBRATED TO BLANKET VALUE 241 GAPI
TOL @ 4914'

ESTIMATED TOP OF CEMENT@ 2940'

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES!
YOUR CREW TODAY: JOSHUA MCDANIEL, NOLAN RADFORD, TONY PIETRAS, BRANDON SHUPE, TROY SCHROCK

Database File:	bringelson_ranch.db
Dataset Pathname:	pass39
Presentation Format:	1cbl
Dataset Creation:	Wed Apr 17 16:23:22 2013 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

9 Collar Locator -1

0 Gamma Ray (GAPI) 150

LTEN

0 (lb) 2500

TEMP (degF)

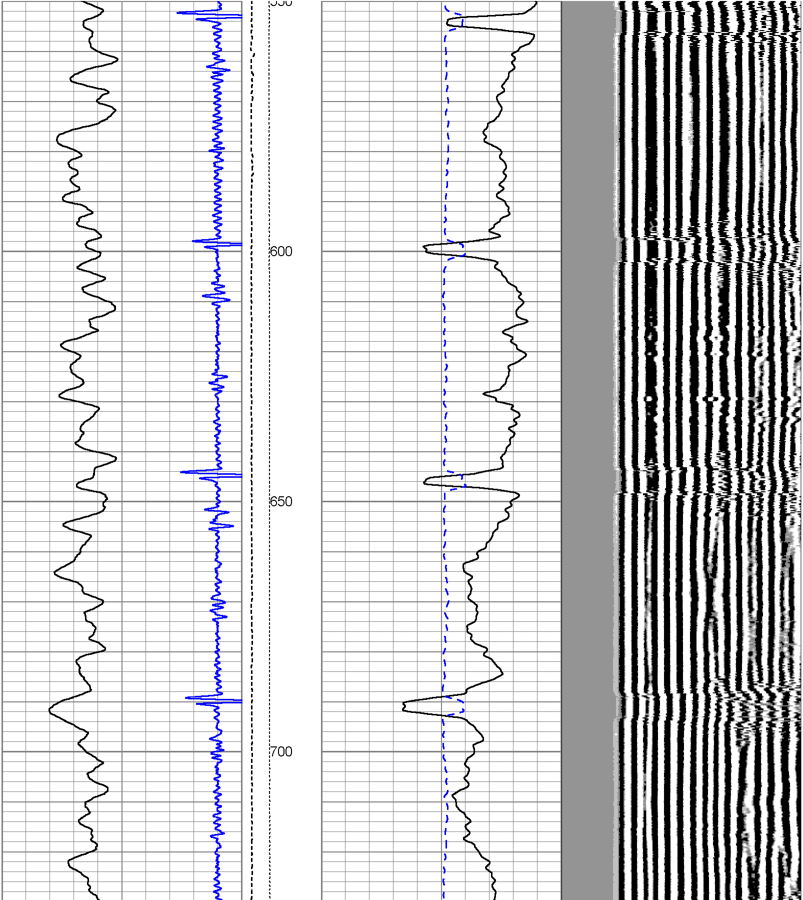
0 200

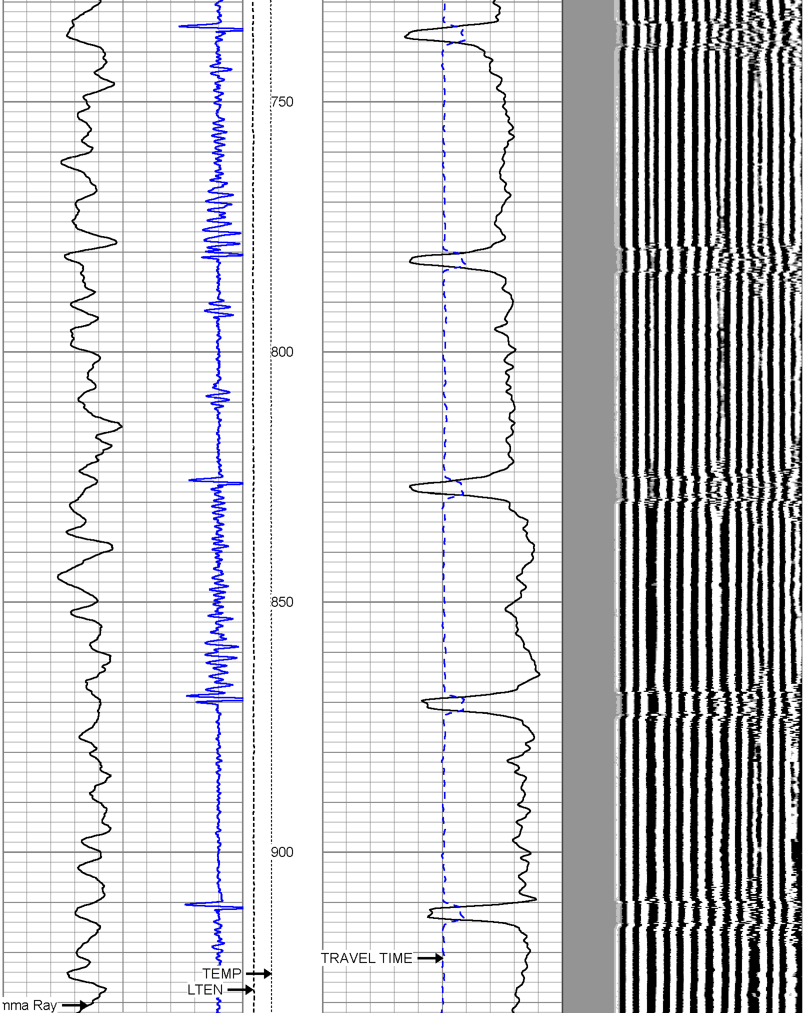
0 Amplified Amplitude (mV) 10

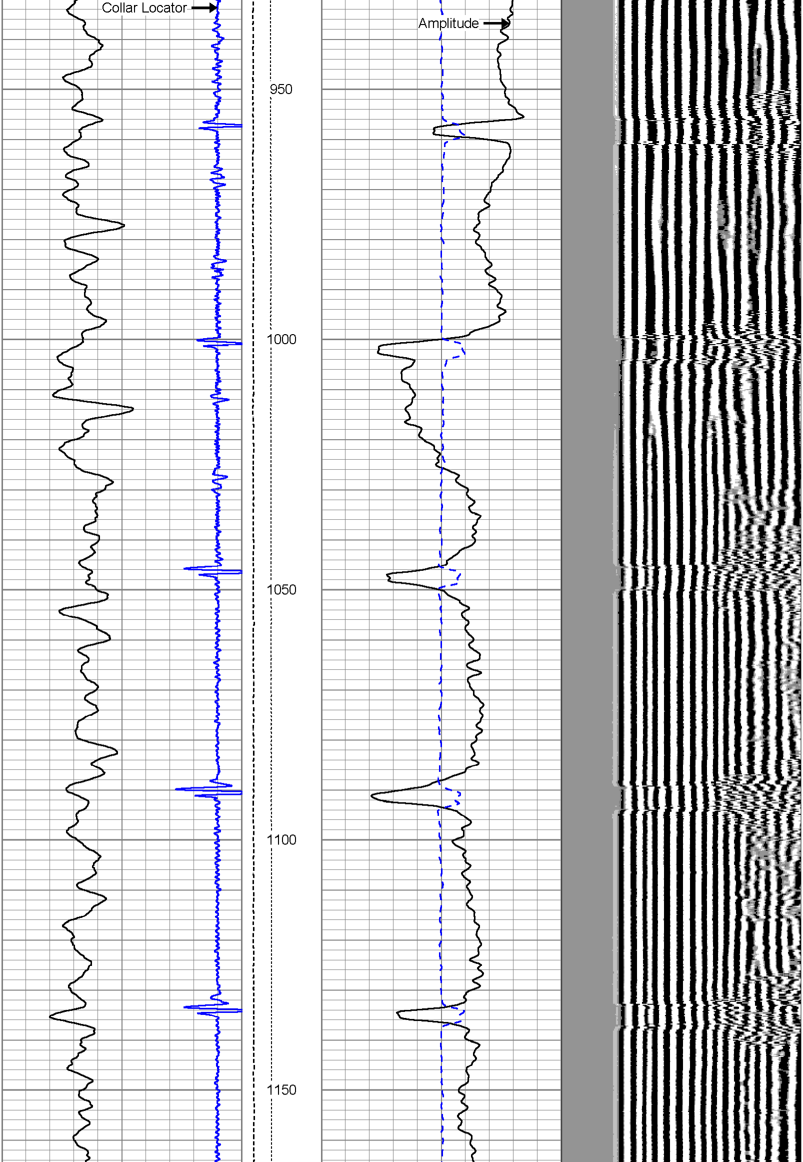
0 Amplitude (mV) 75

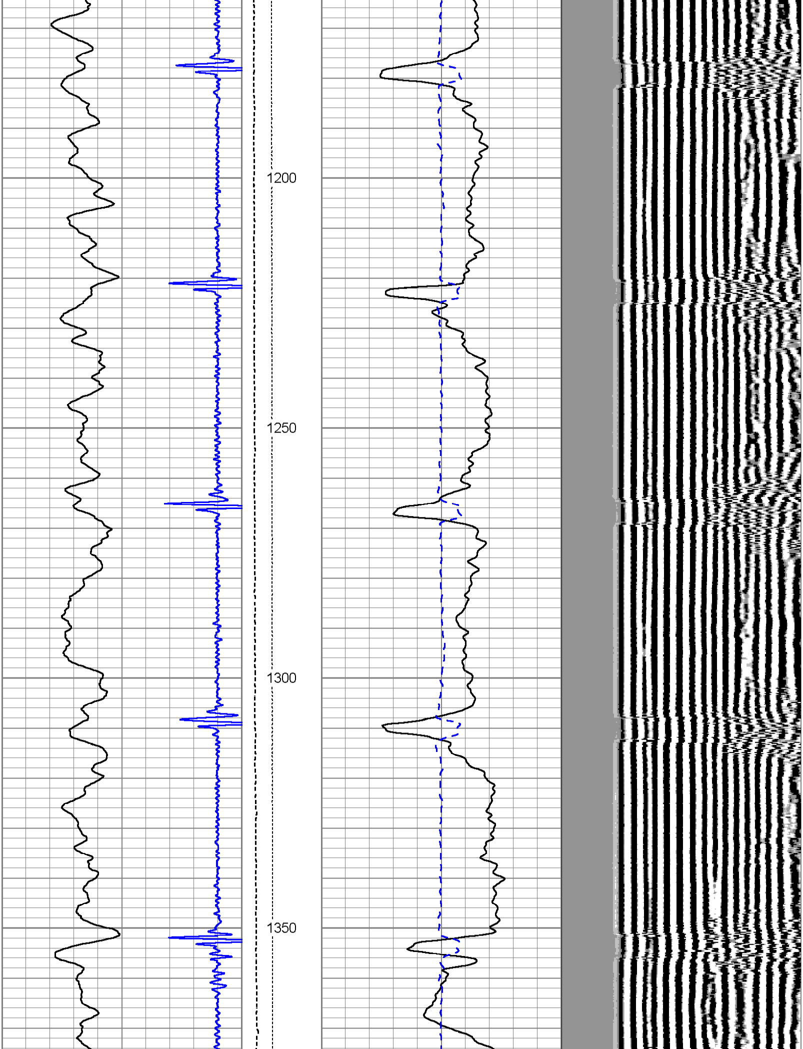
250 TRAVEL TIME (usec) 350

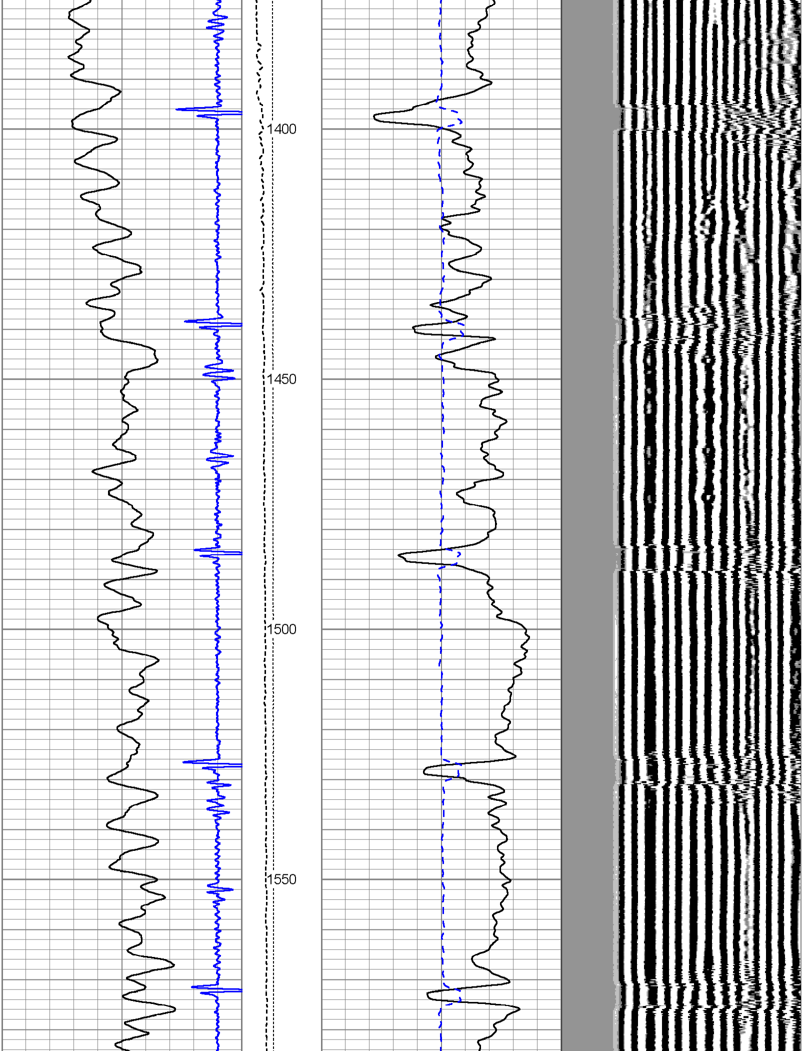
200 MSG 1200

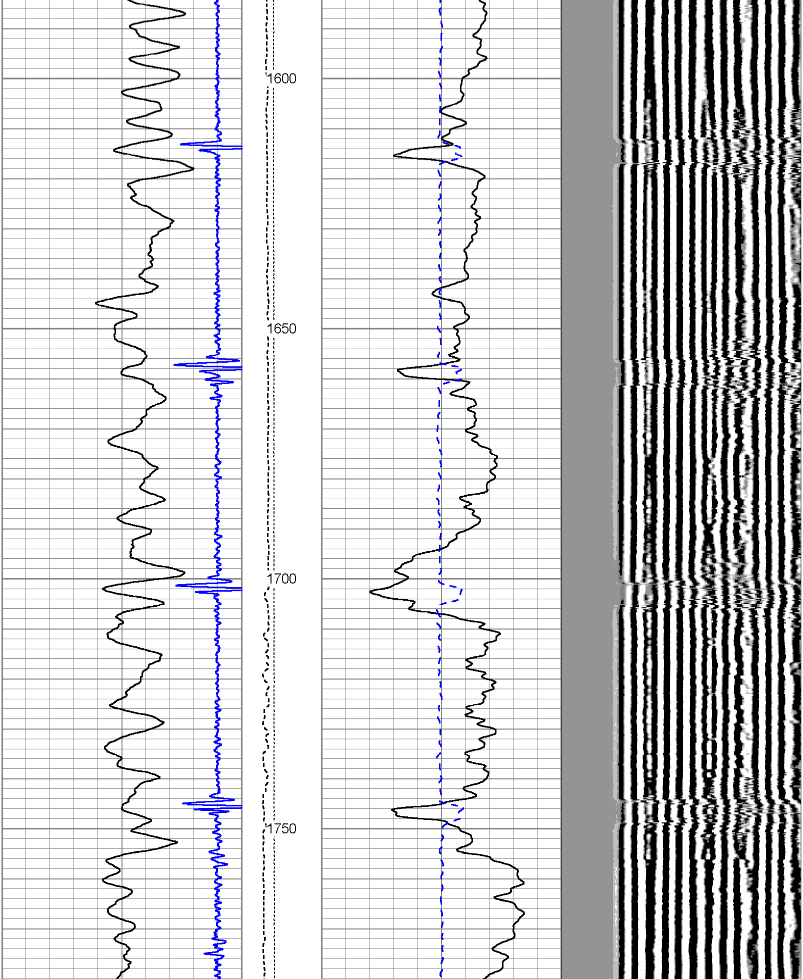


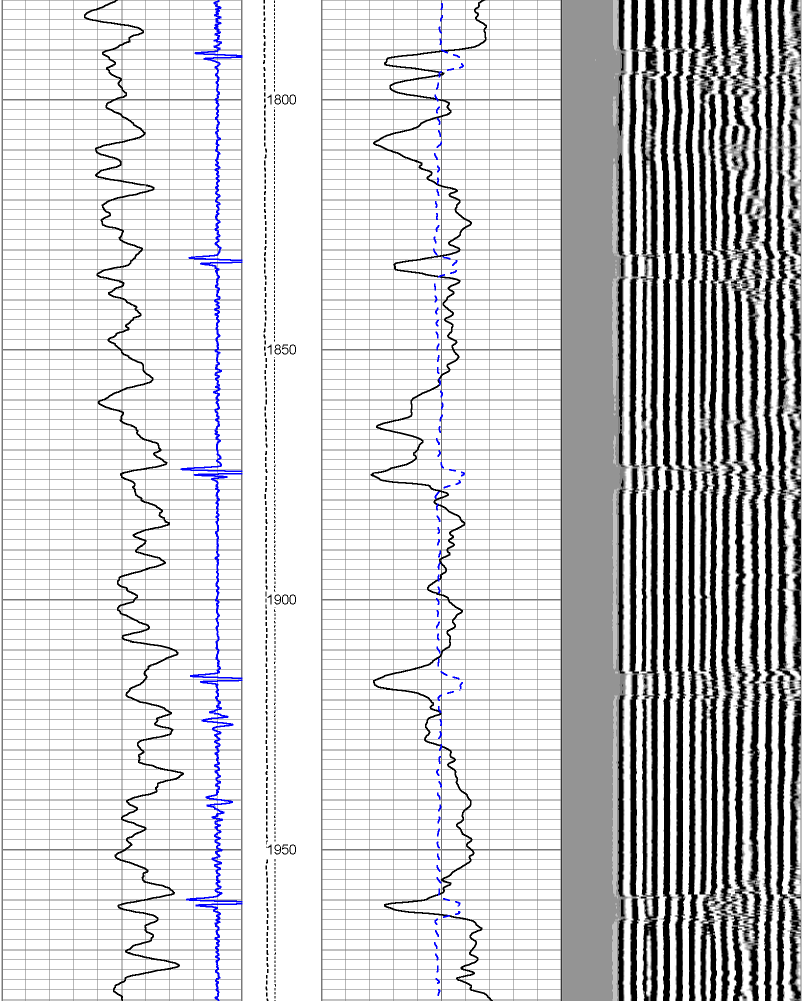


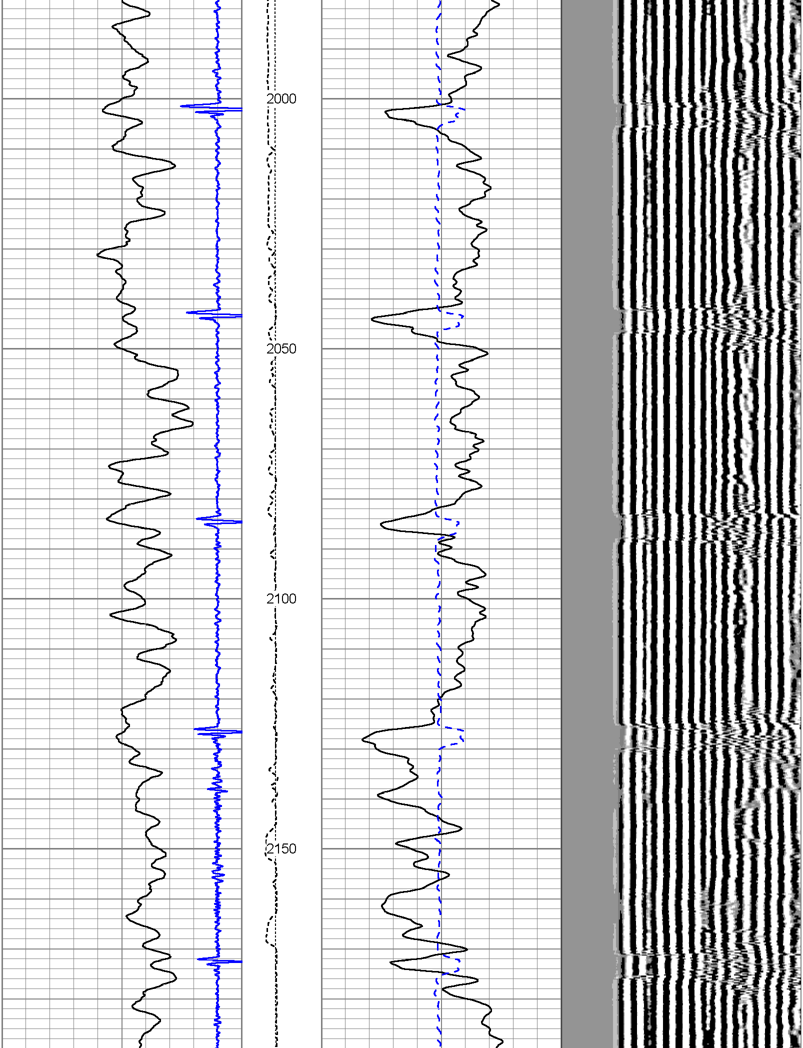


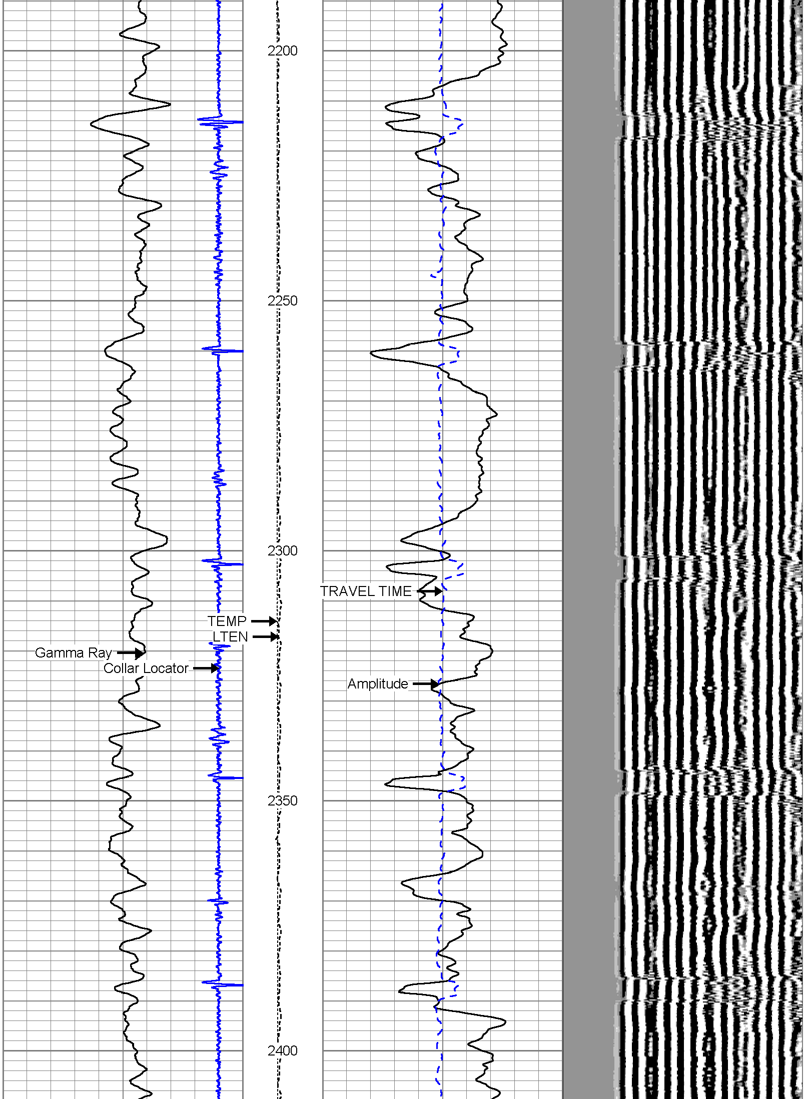


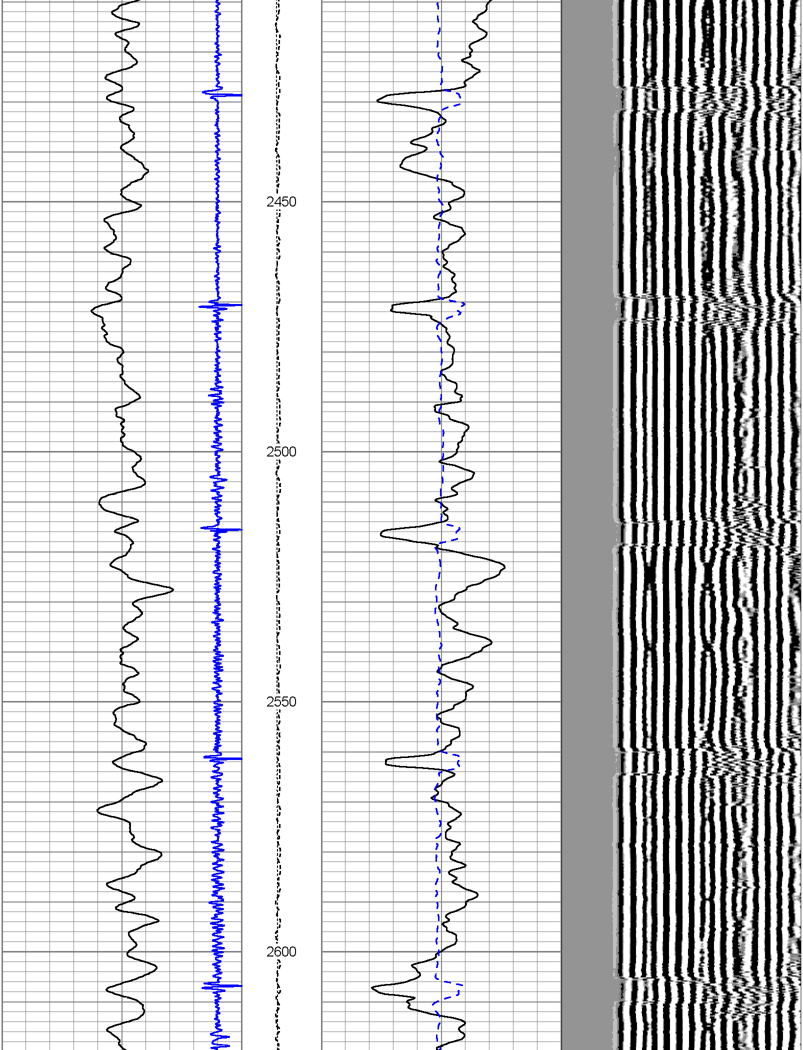


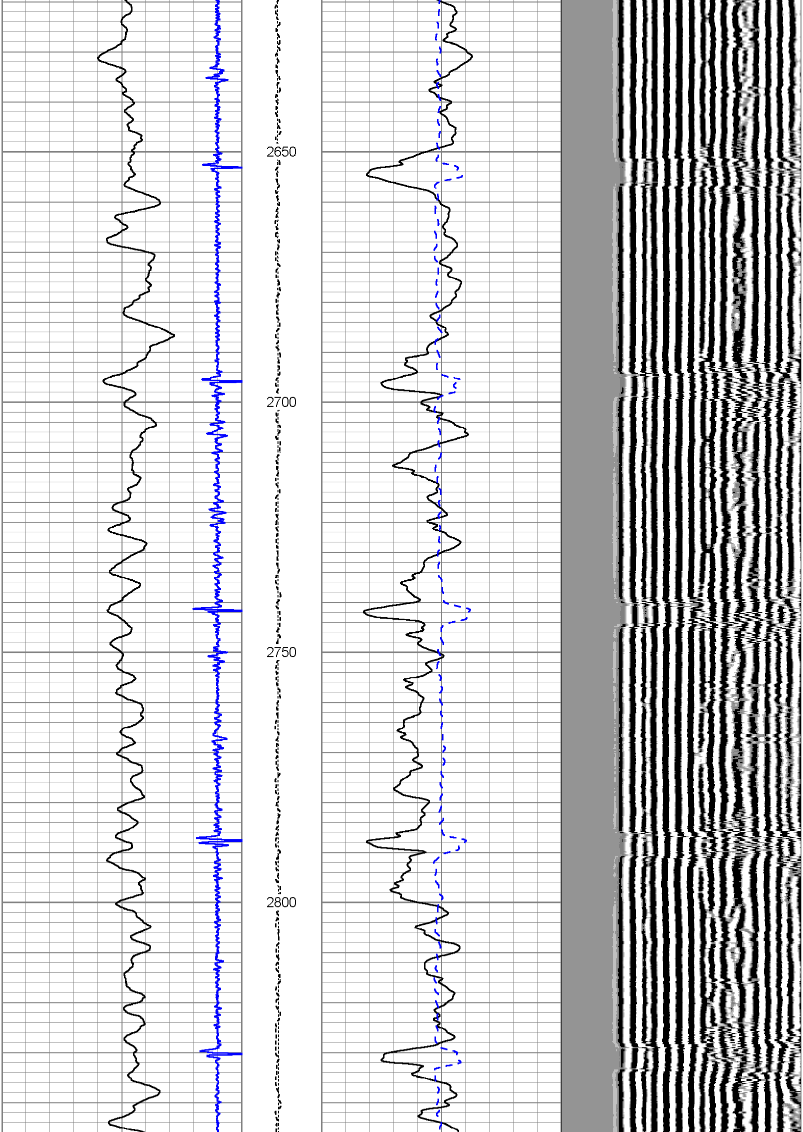


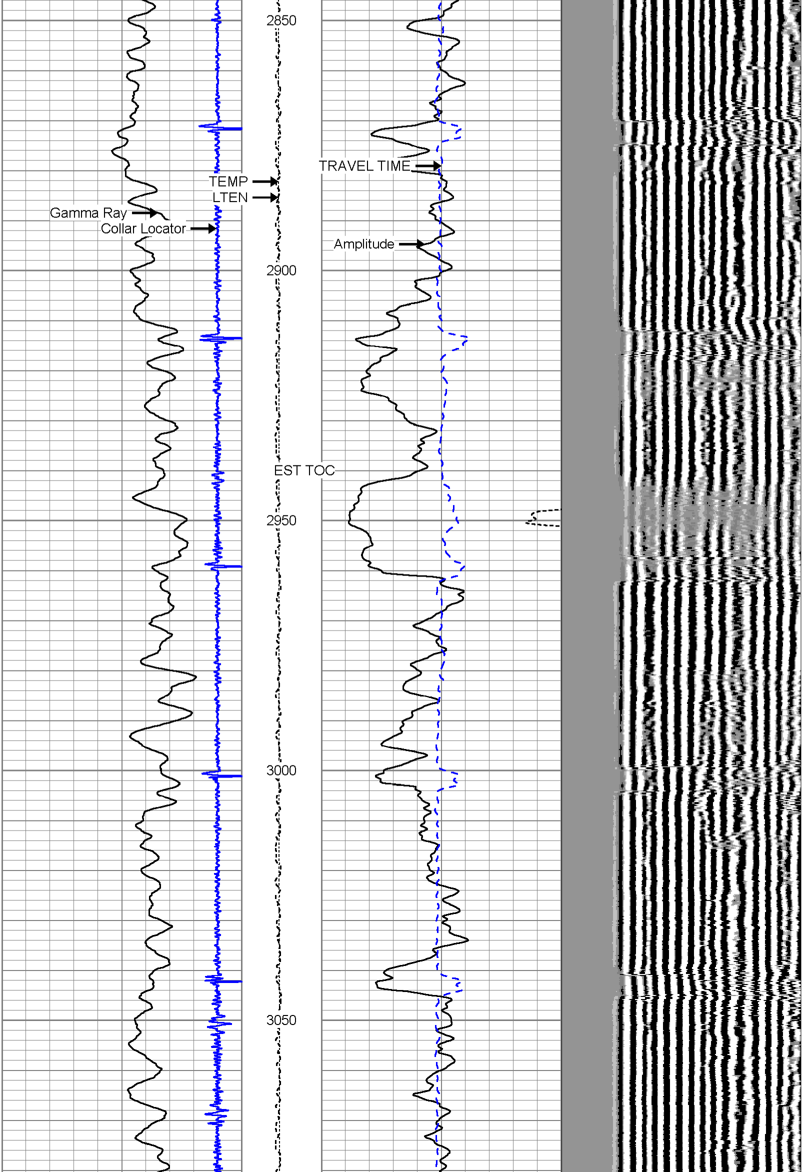


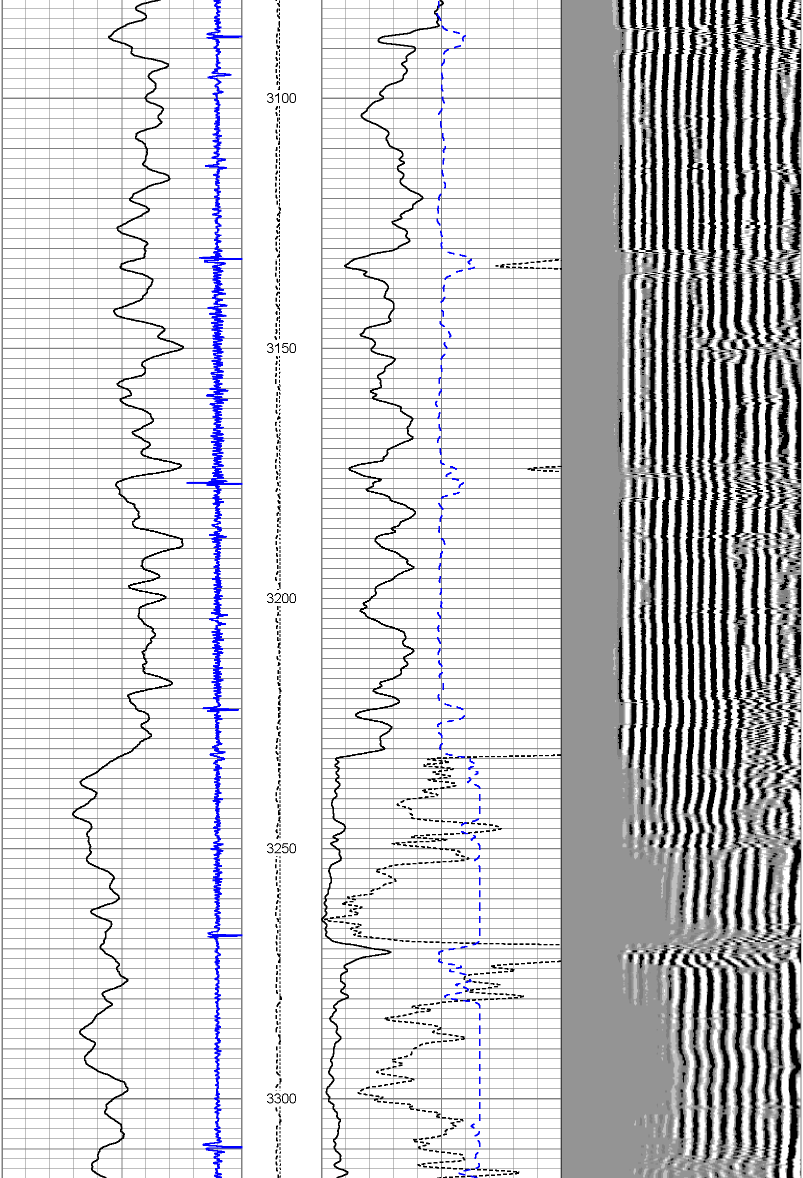


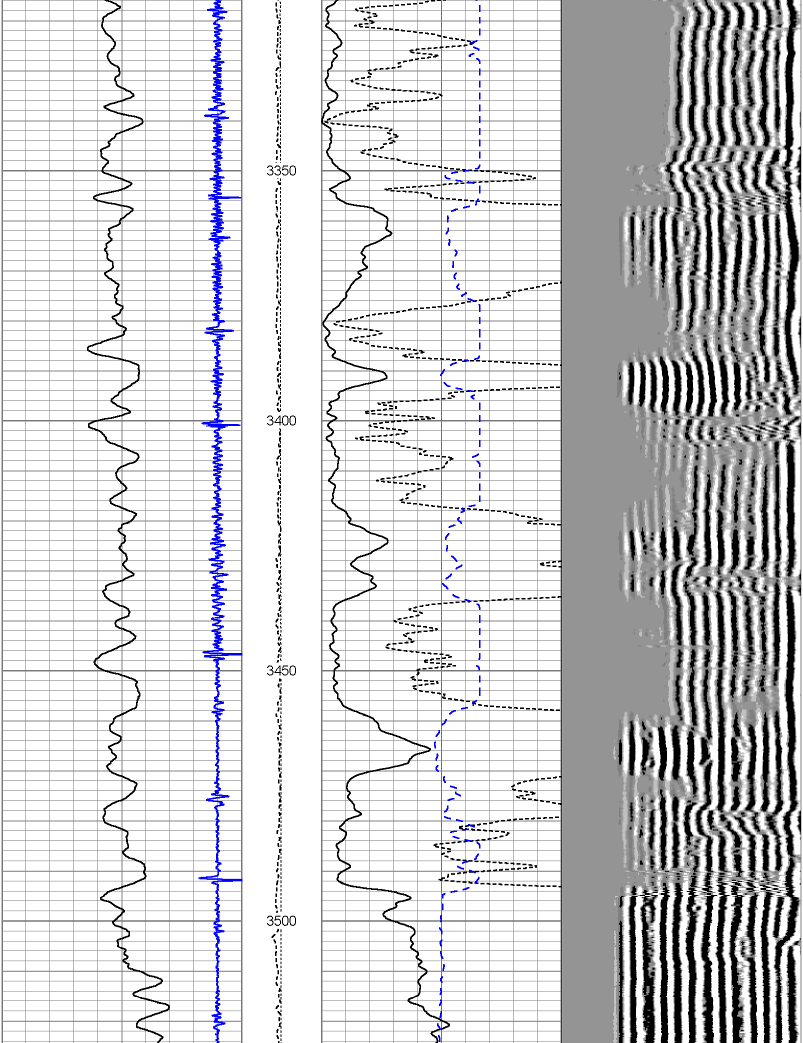


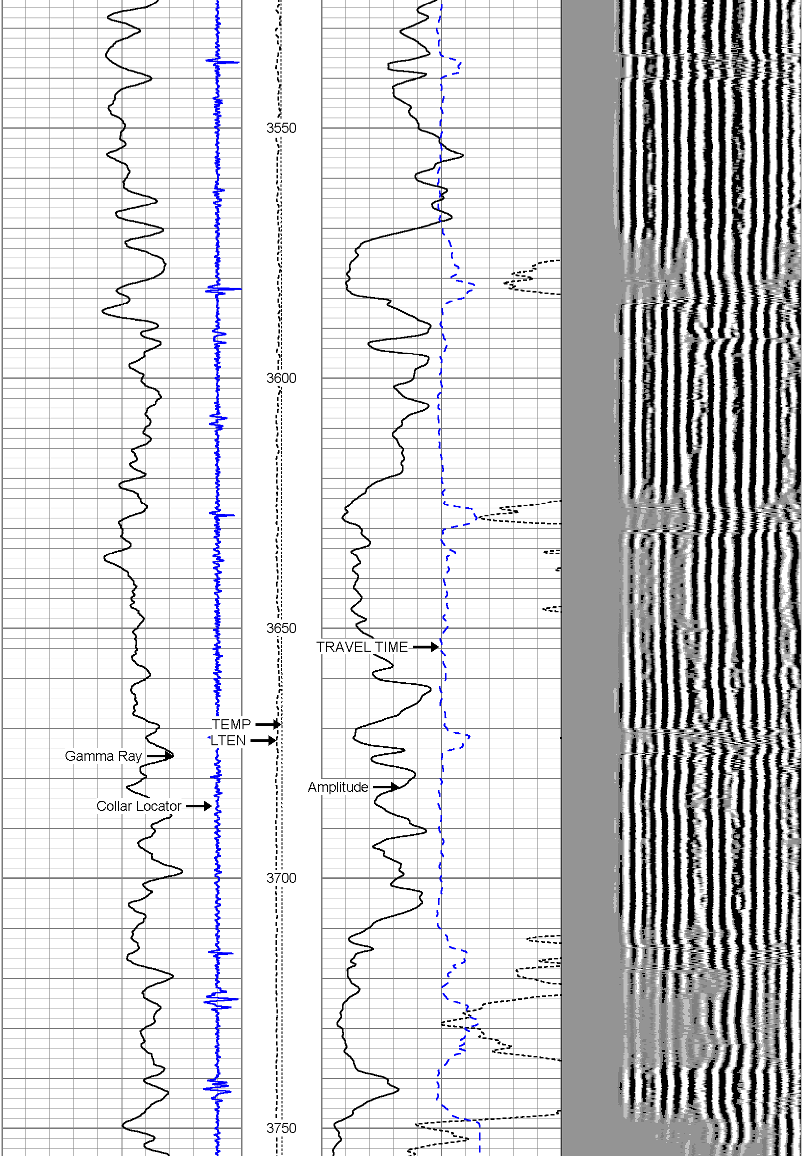


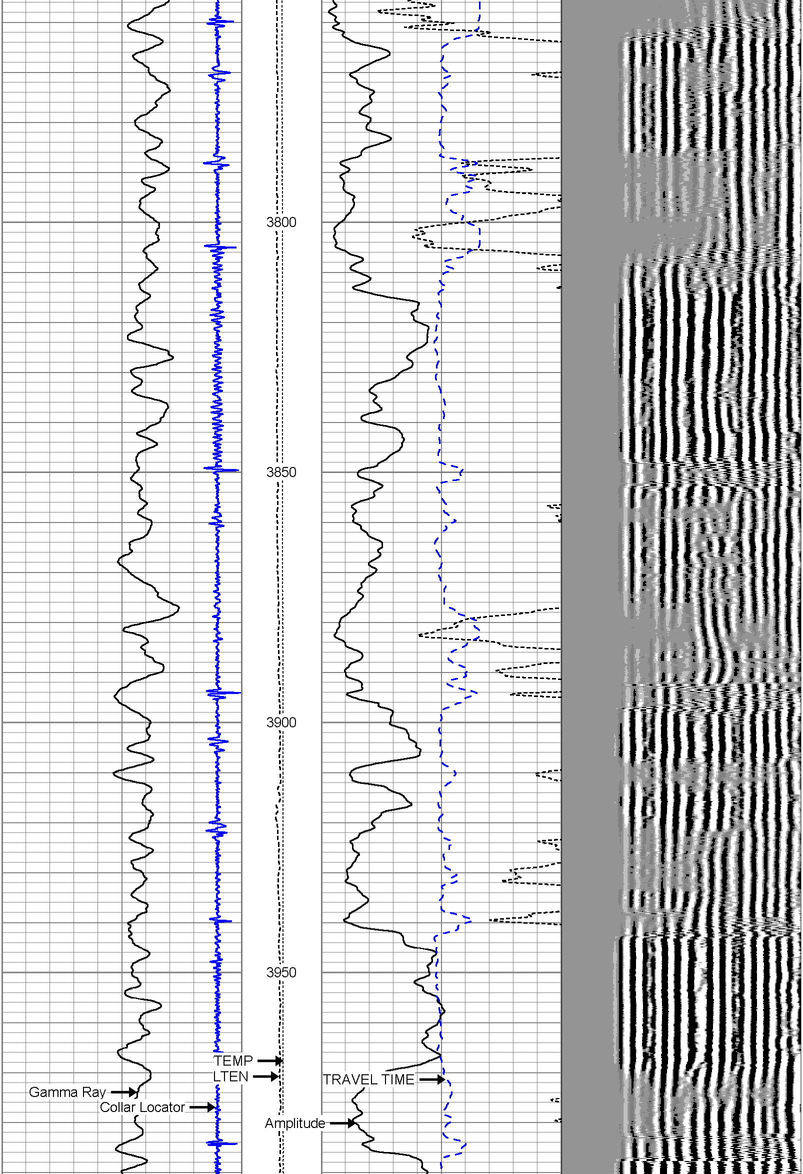


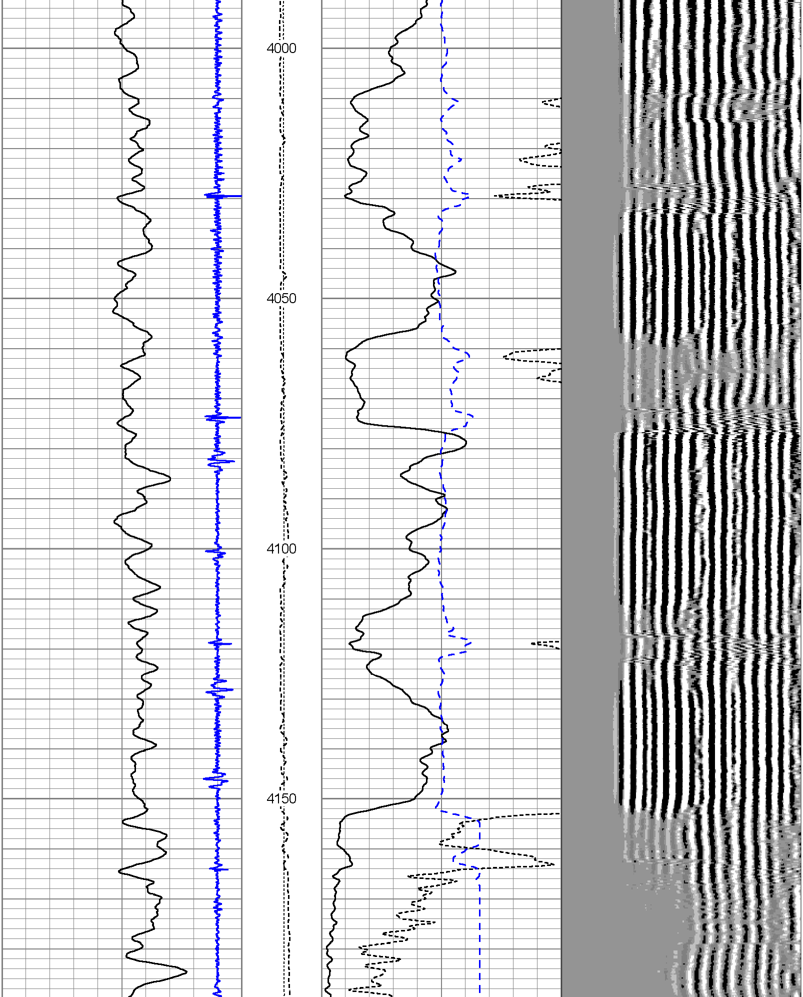


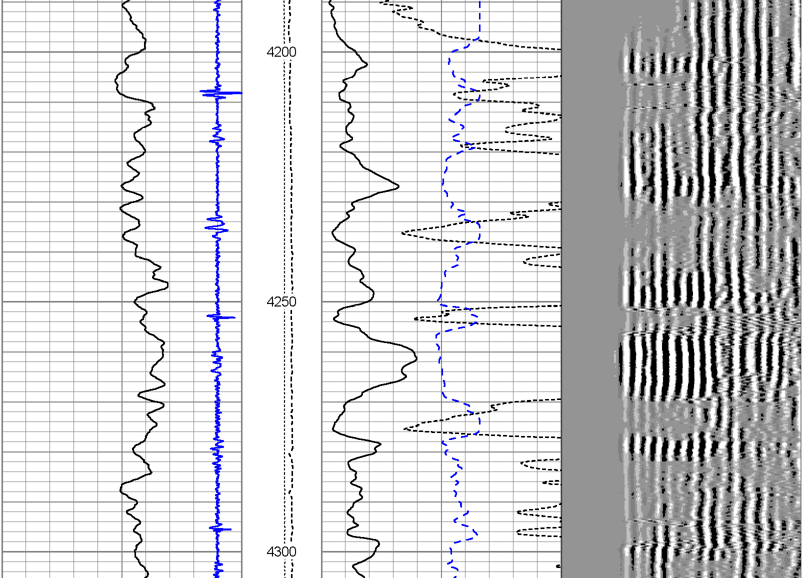












Log Variables

Database:C:\Warrior\Data\bringelson_ranch.db
Dataset: field/well/run1/pass39

Top - Bottom

PPT usec	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF
287	62	0	0.8	7	0	1000	120

BITSIZE in
8.75

Calibration Report

Database File: bringelson_ranch.db
Dataset Pathname: pass39
Dataset Creation: Wed Apr 17 16:23:22 2013 by Log Halliburton Casedho

Temperature Calibration Report

Serial Number: Tit1.3_02
Tool Model: Titan
Performed: Sun Jan 20 14:20:13 2013

	Reference	Reading
Low Reference:	61.00 degF	558.10 cps
High Reference:	120.00 degF	1975.90cps

Gain: 0.04
Offset: 37.78
Delta Spacing 2

Gamma Ray Calibration Report

Type / Serial: Probe / 275

SHOP CALIBRATION	Tue Apr 16 15:21:47 2013				
	Counts/Sec.	Gain	Offset	Jig	Units
Background	79.9				cps
Calibrator	322.4				cps
		0.9939			GAPI/cps
PRIMARY VERIFICATION	Tue Apr 16 15:26:52 2013				
Background	80.3				cps
Calibrator	318.0				cps
Difference				237.8	GAPI
BEFORE SURVEY VERIFICATION	Wed Apr 17 08:55:35 2013				
Background	68.5				cps
Calibrator	302.3				cps
Difference				233.9	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Cement Bond Log Calibration Report

Serial Number: 275
Tool Model: Probe
Performed: Wed Apr 17 15:03:27 2013

Depth: 879.838 ft
Casing Diameter: 7 in

	3' Spacing	5' Spacing	
Signal Zero:	0.15	0.15	mV
Calibrated Amplitude:	62	62	mV
Reading at Signal Zero:	0.00180664	0.00317383	V
Reading in Free Pipe:	0.457275	0.401562	V
Gain:	135.794	155.25	
Offset:	-0.0953313	-0.342738	

Sensor Report

Database File: bringelson_ranch.db
Dataset Pathname: pass39
Dataset Creation: Wed Apr 17 16:23:22 2013 by Log Halliburton Casedho

Sensor Name	Offset (ft)
WVF3	12.72
WVF5	11.72
CCL	5.08
GR	3.79
TEMP	0.17
LLMTEN	0
Telemetry	0

Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		1_CABLEHEAD 1"OD CABLE HEAD	1.02	1.44	3.00
		CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	2.88	2.75	35.00
WVF3 WVF5	12.72 11.72	CBL-Probe (275) 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
CCL GR	5.08 3.79	GR-Probe (275) Probe 2.75" 4 Channel Pulse	4.33	2.75	30.00
TEMP LLMTEN	0.17 0.00	TEMP-Titan (Tit1.3_02) Titan Temp 1.3875	1.25	1.39	10.00

Dataset: bringelson_ranch.db: field/well/run1/pass39
Total Length: 21.29 ft
Total Weight: 173.00 lb
O.D. 2.75 in

Company	CARRIZO
Well	BRINGELSON RANCH 3-34-9-58
Field	WILDCAT
County	WELD
State	CO

HALLIBURTON

CEMENT BOND
LOG