HALLIBURTON

CEMENT BOND LOG

Company	CARRIZO
Well	BAILEY 5-26-8-60
Field	WILDCAT
County	WELD
State	CO

Company CARRIZO
Well BAILEY 5-26-8-60
Field WILDCAT
County WELD State CO

API No.: 05-123-37372 Serv #: 900755481
Location: LAT: 40.627030 LONG: -104.063800

Sec: 26 Twp: 8N Rge: 60W

Other Services
N/A

Permanent Datum	GL	Elevation	4876'	Elevation
Log Measured From	KB , 17	Ft. above perm. datum		K.B. 4893'
Drilling Measured From	KB			D.F. 4892' G.L. 4876'

Date @ Time Logged	20-SEPT-2013	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.33
Depth - Driller	8825	Fluid Level	SURFACE
Depth - Logger	5774	Cement Top Est. Logged	1420
Bottom - Logged Interval	5662	Equipment / Location	11014931 / BRIGHTON
Top - Log Interval	75	Recorded by	JOSHUA MCDANIEL
Max. Recorded Temp.	226	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				
Cement Type / Weight	/	/	/	/
Formulation				
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record				Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				7	23	0	5585

<<< 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 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

PRIMARY DEPTH REFERENCE

TOL @ 5585'

ESTIMATED TOP OF CEMENT @ '

MAX TEMP = 226 DEG F

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES!

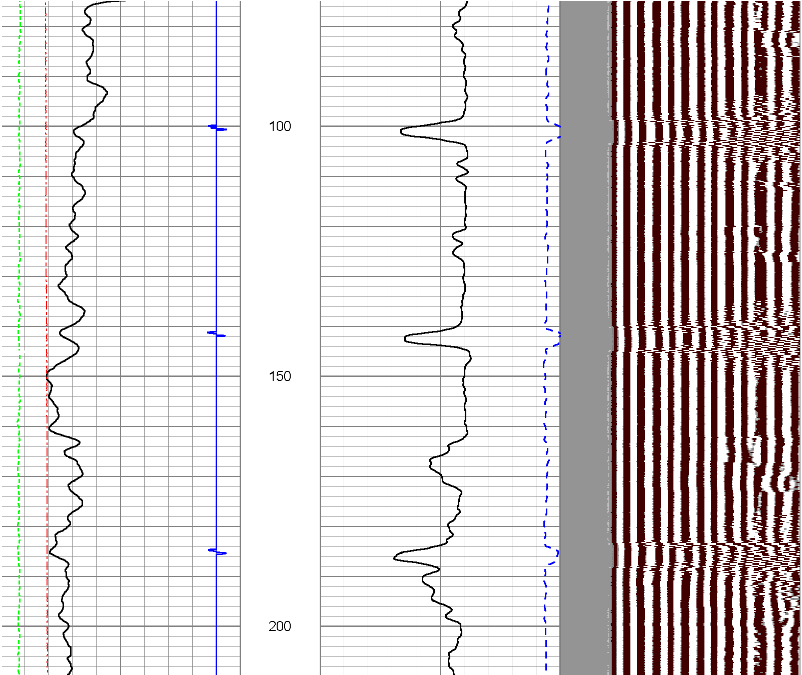
HALLIBURTON

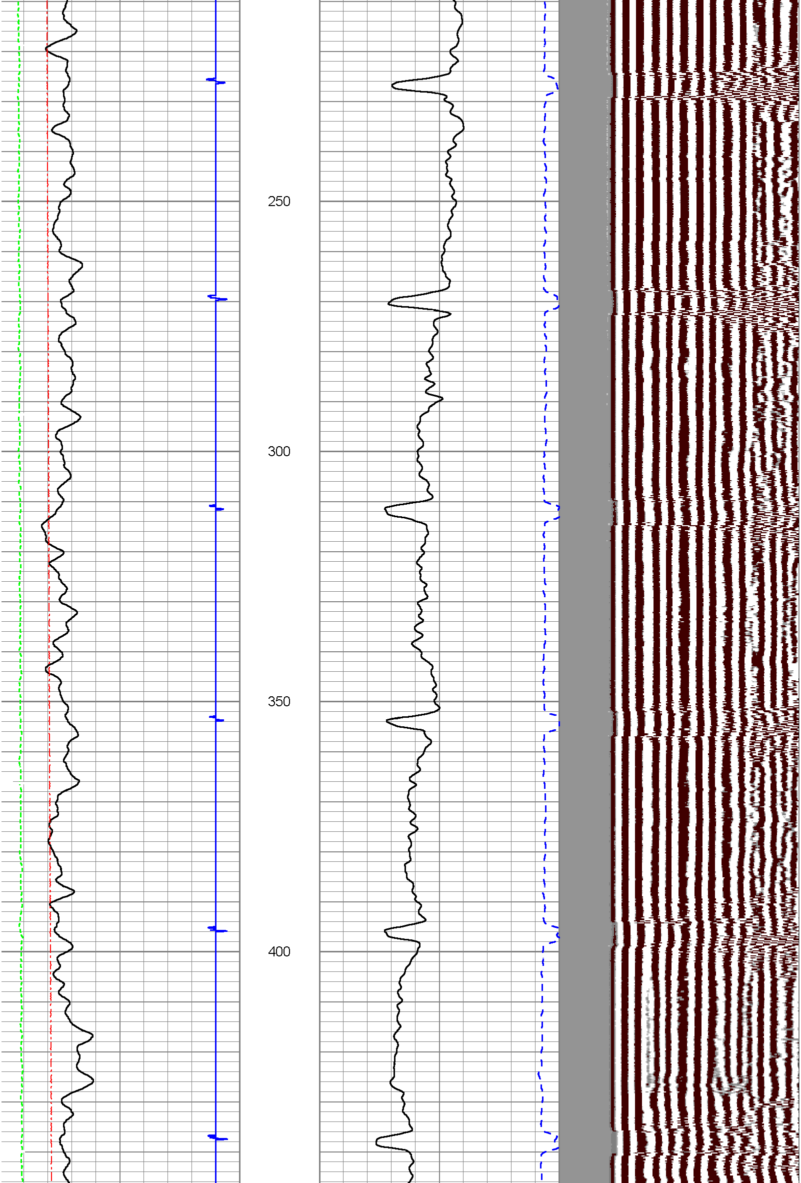
MAIN PASS 1000 PSI

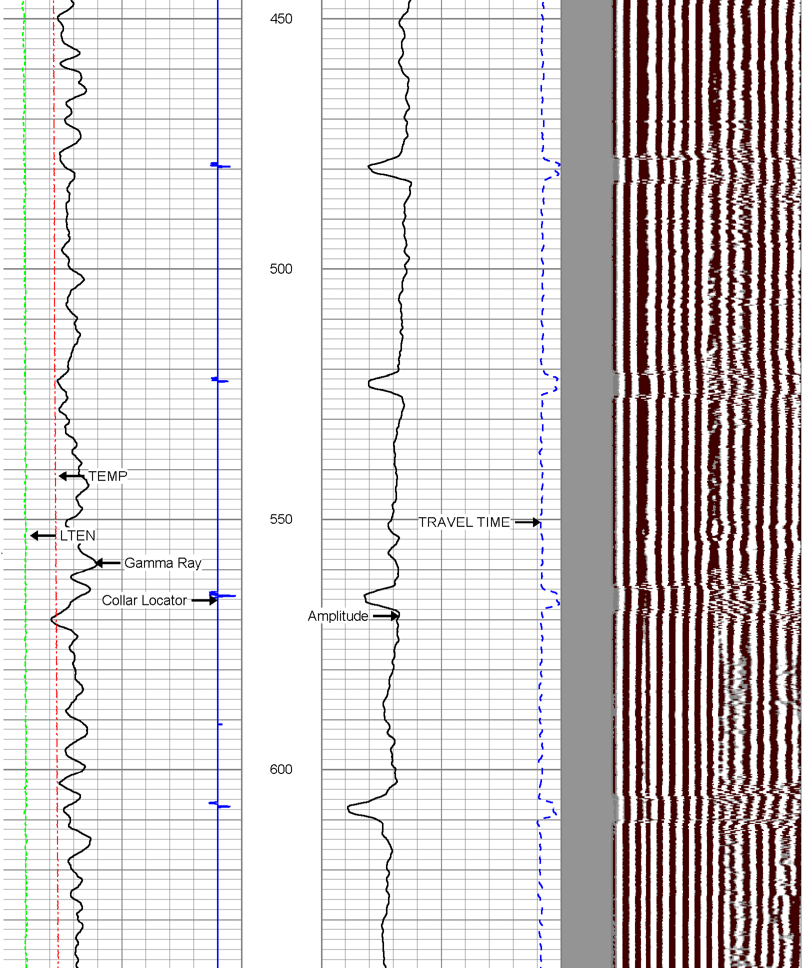
SCALE: 5" = 100'

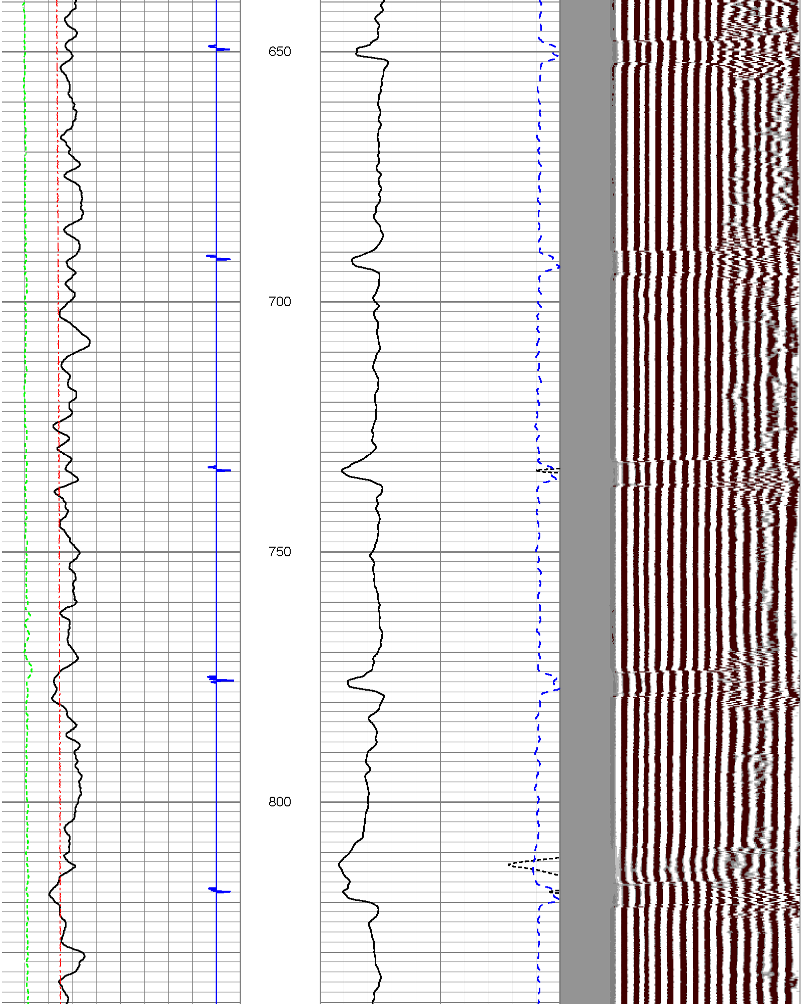
Database File:	bailey.db
Dataset Pathname:	pass9
Presentation Format:	1cbl
Dataset Creation:	Fri Sep 20 09:21:38 2013 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

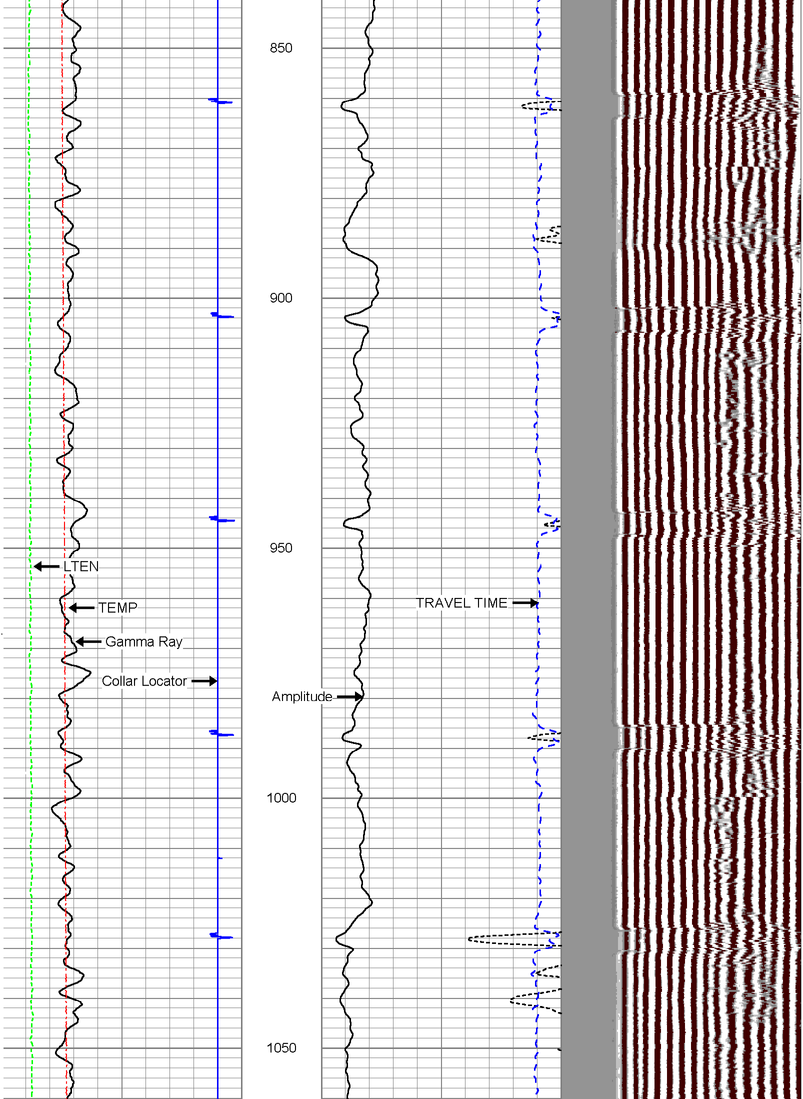
Min	Curve	Max
9	Collar Locator	-1
0	Gamma Ray (GAPI)	150
0	LTEN (lb)	2500
0	TEMP (degF)	300
0	Amplified Amplitude (mV)	10
0	Amplitude (mV)	100
200	TRAVEL TIME (usec)	300
200	MSG	1200

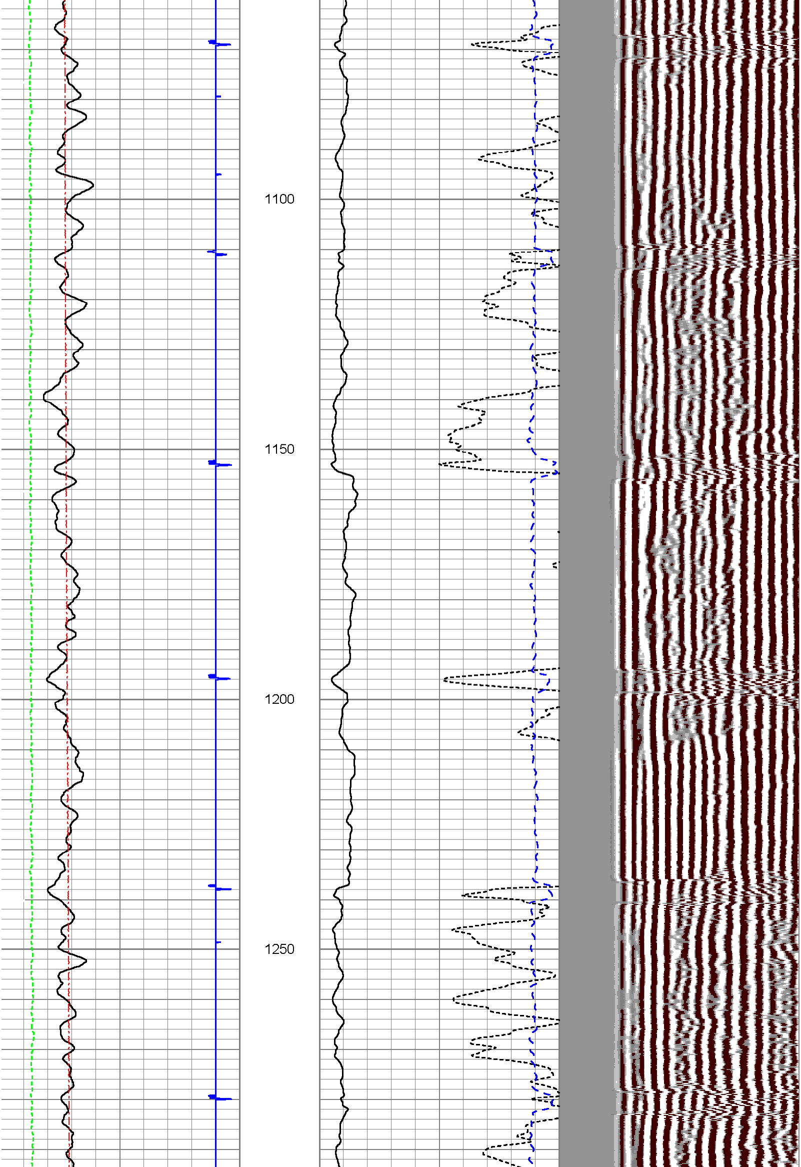


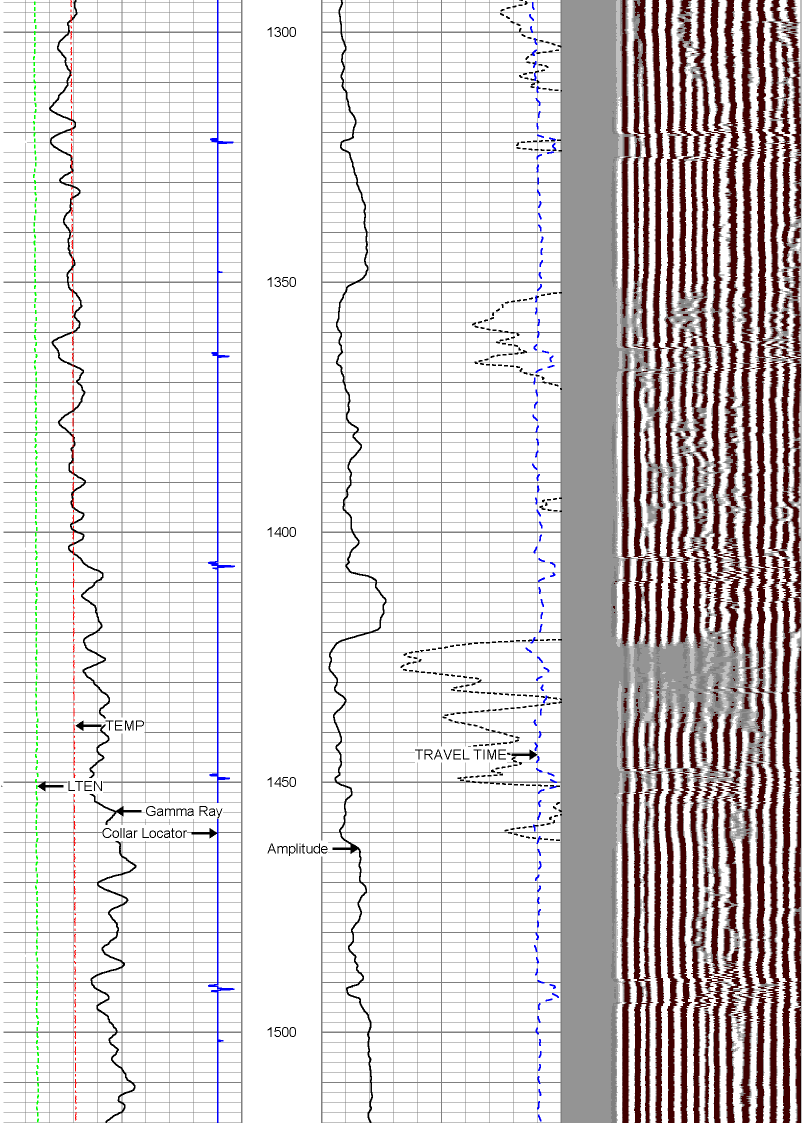


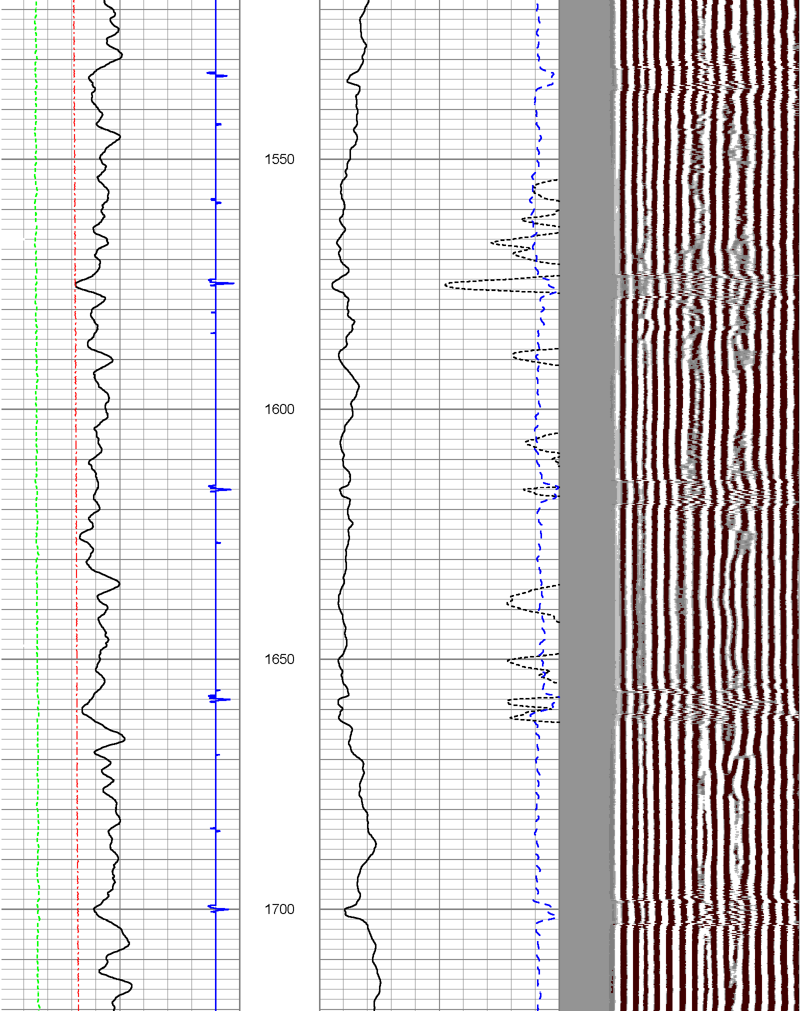


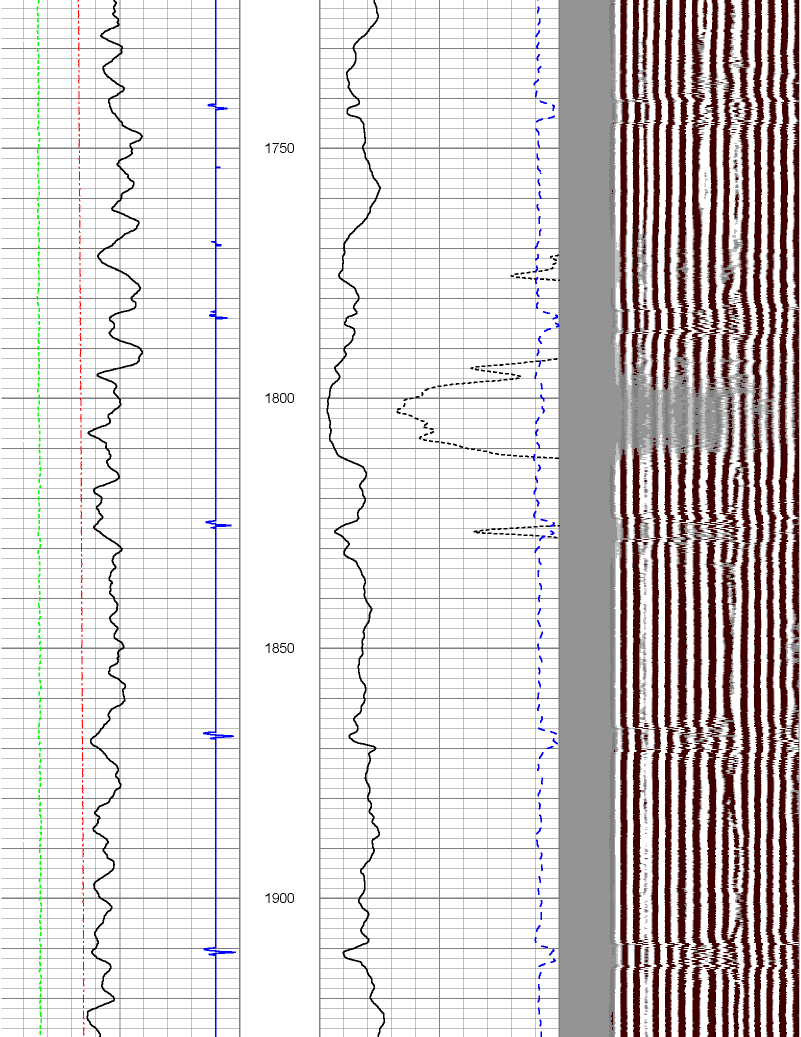


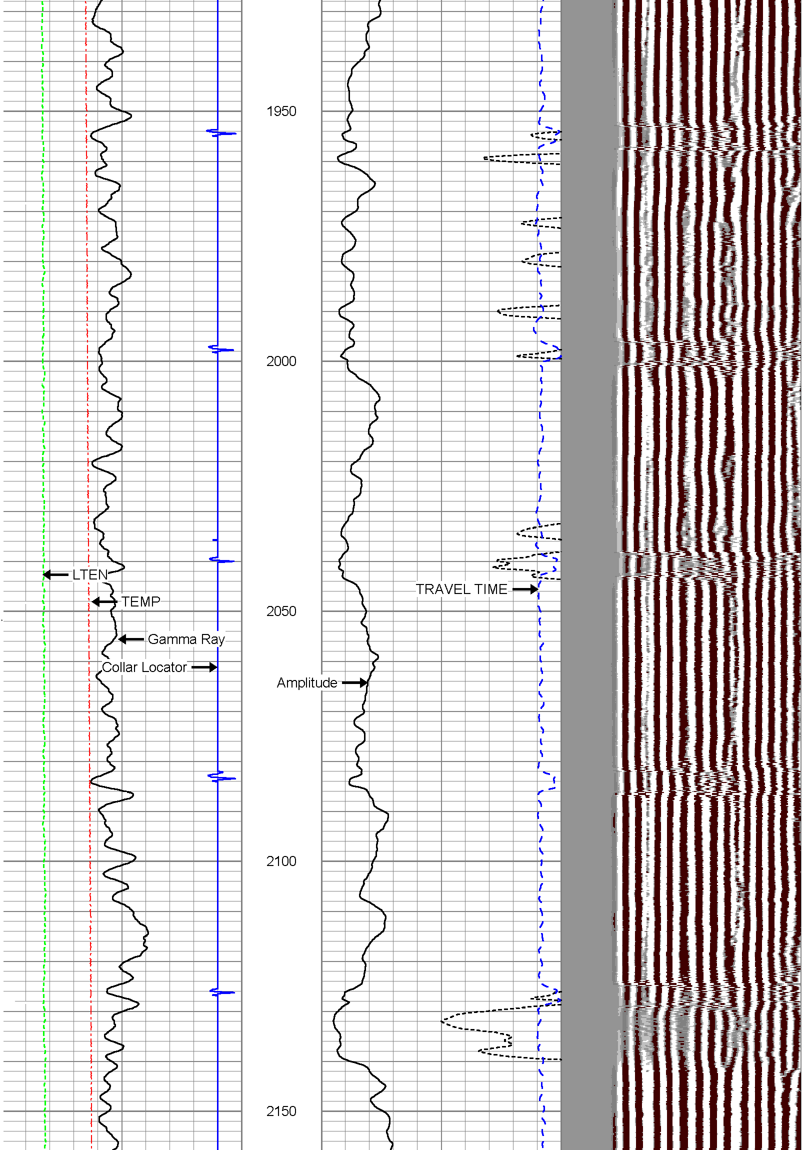


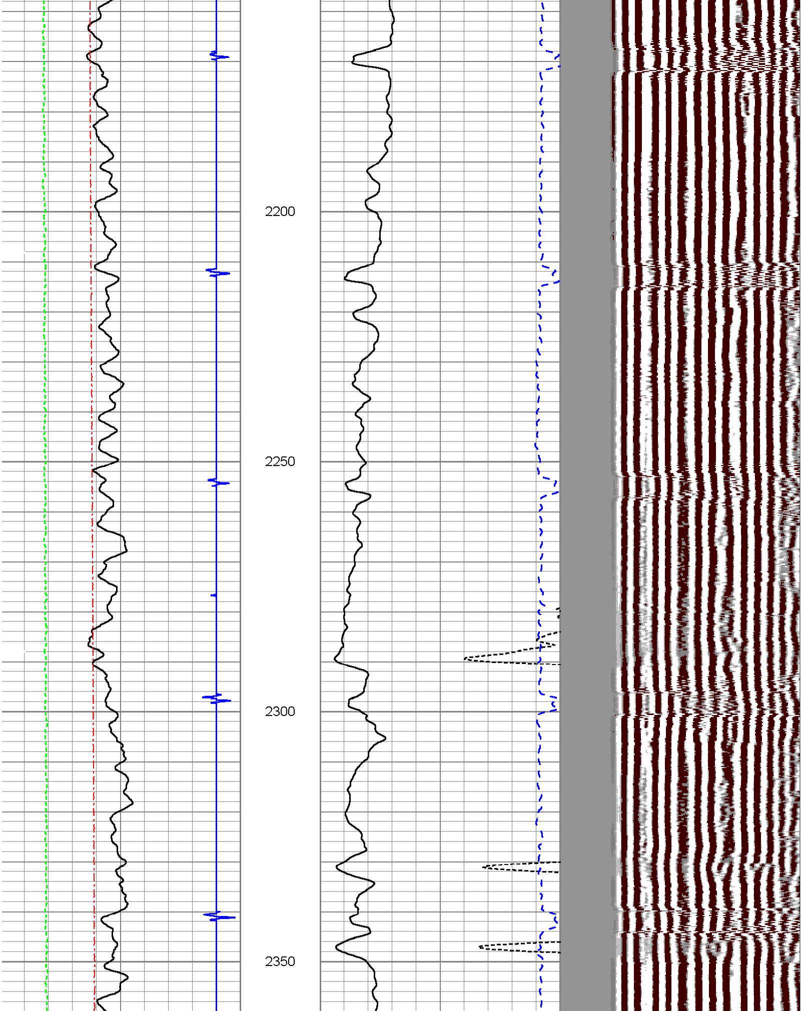


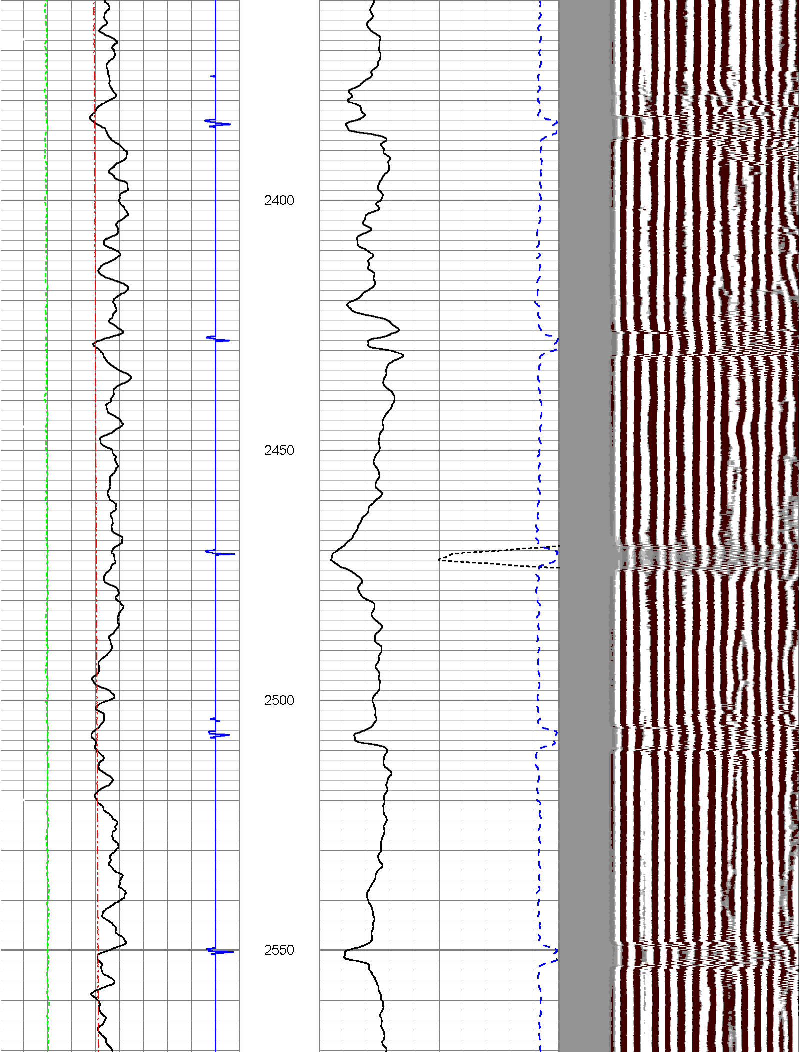


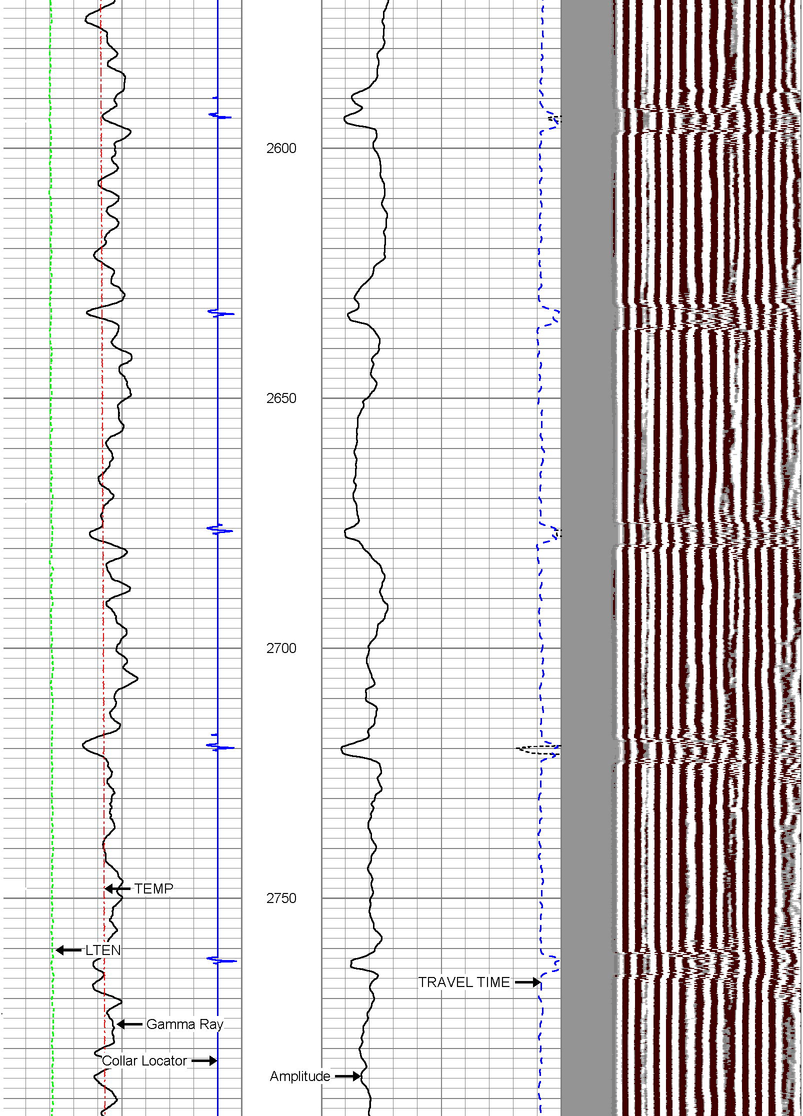


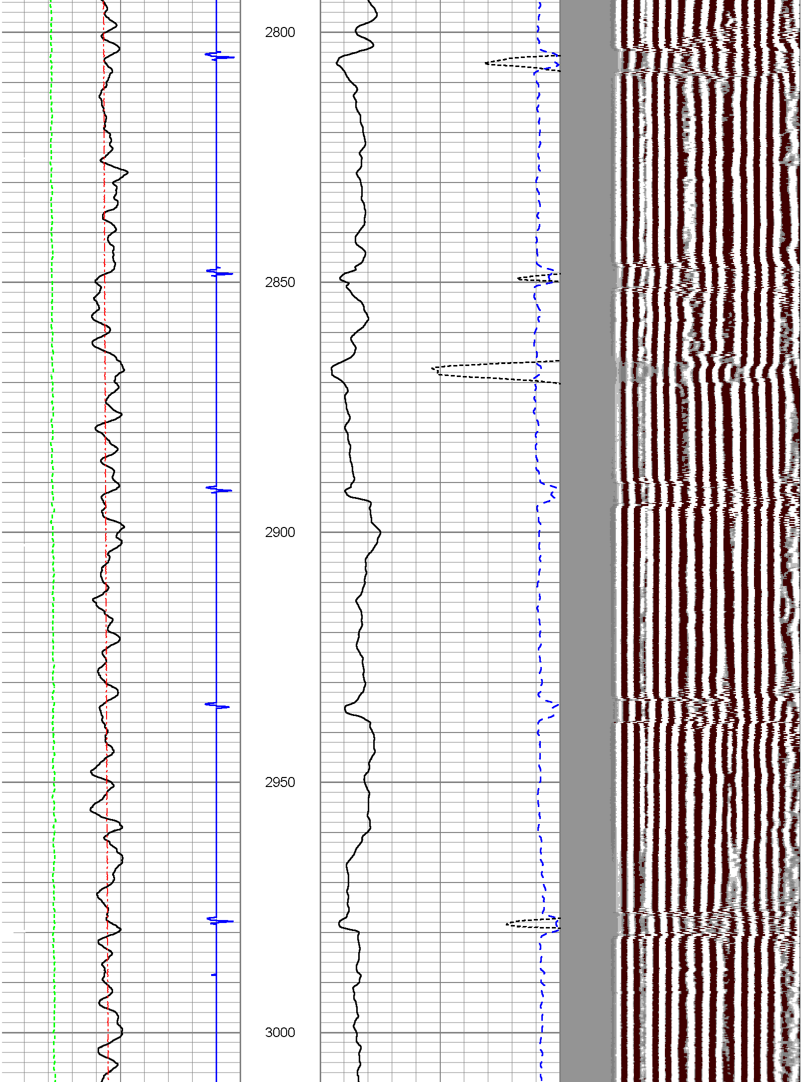


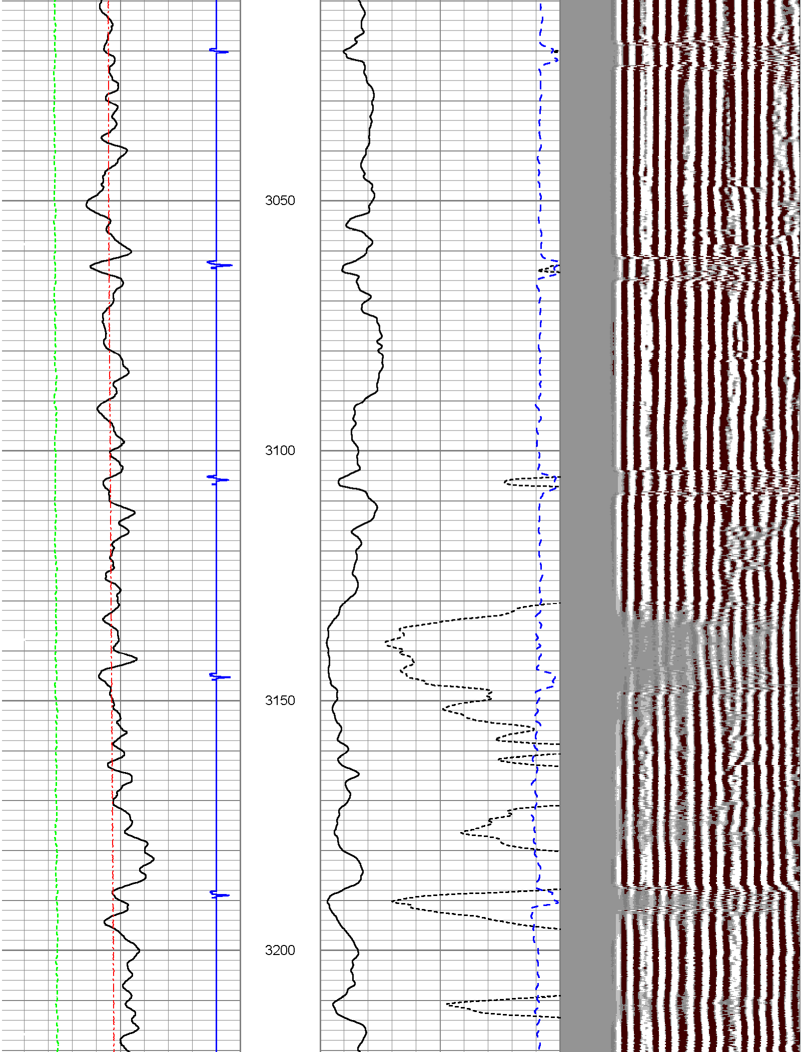


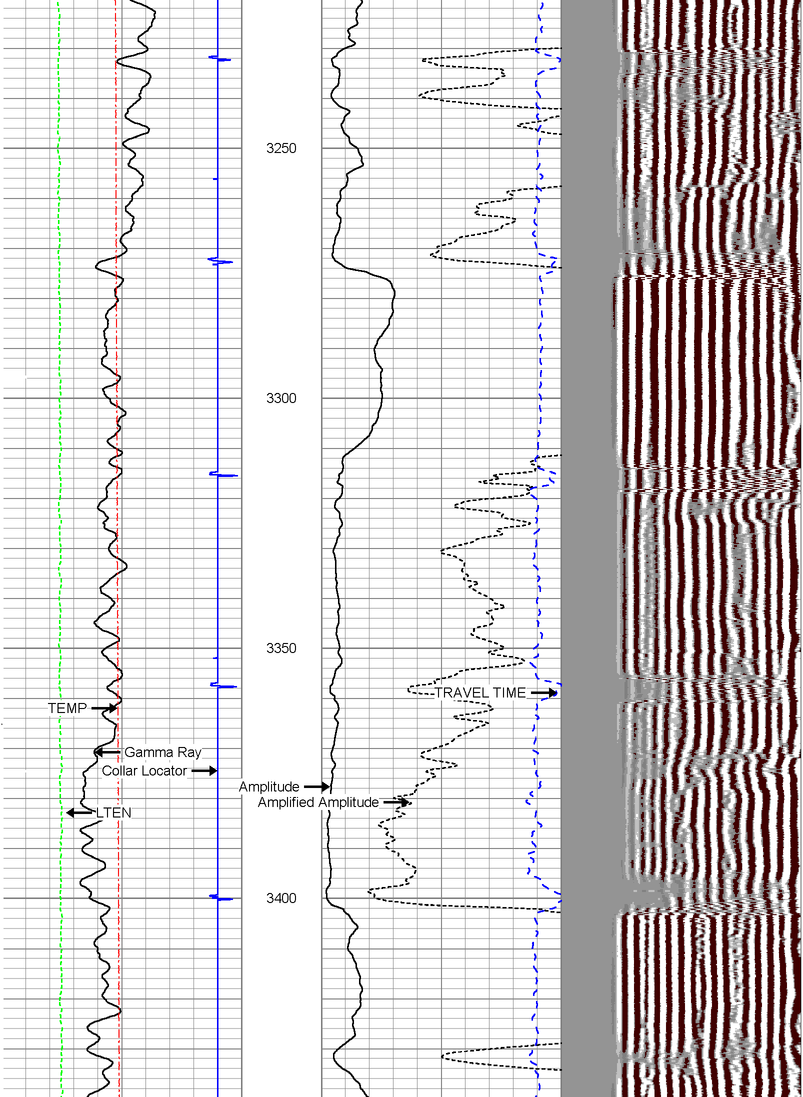


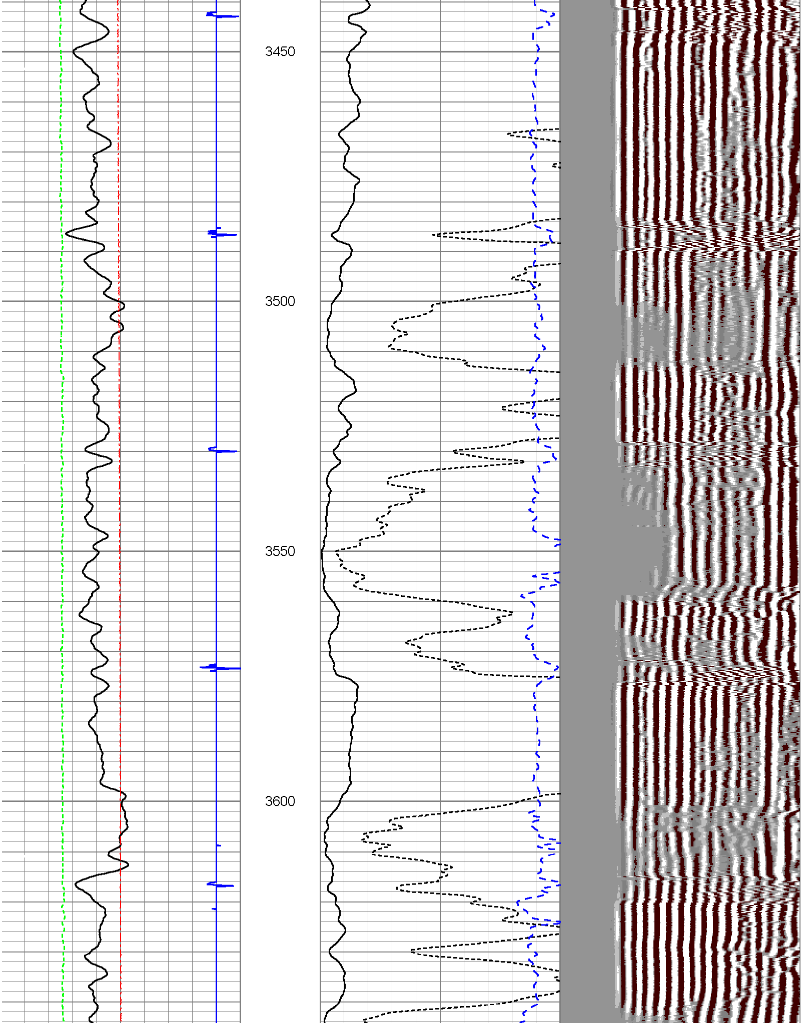


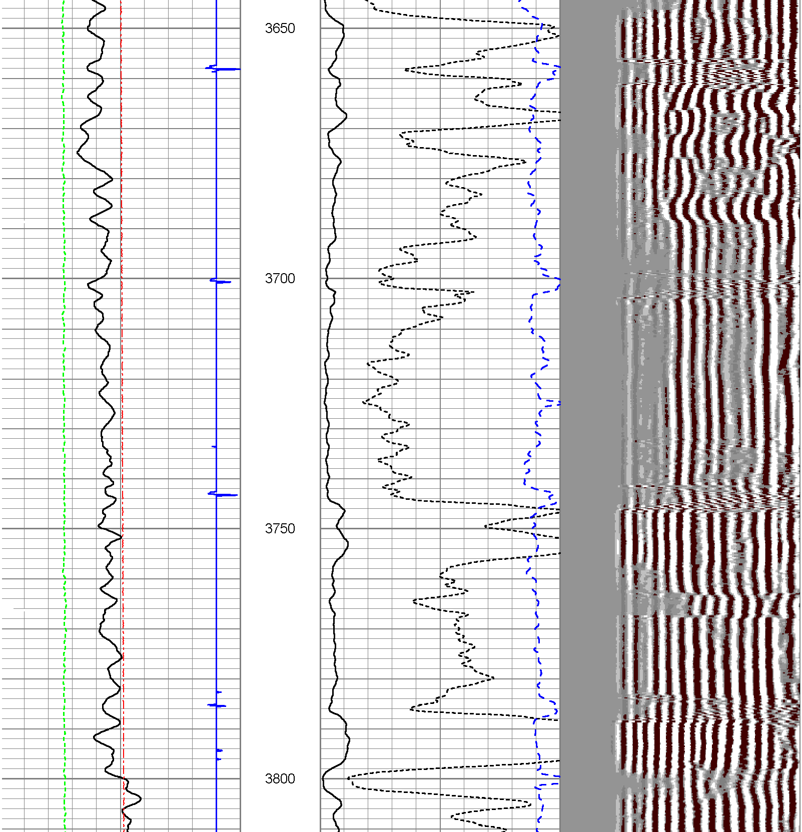


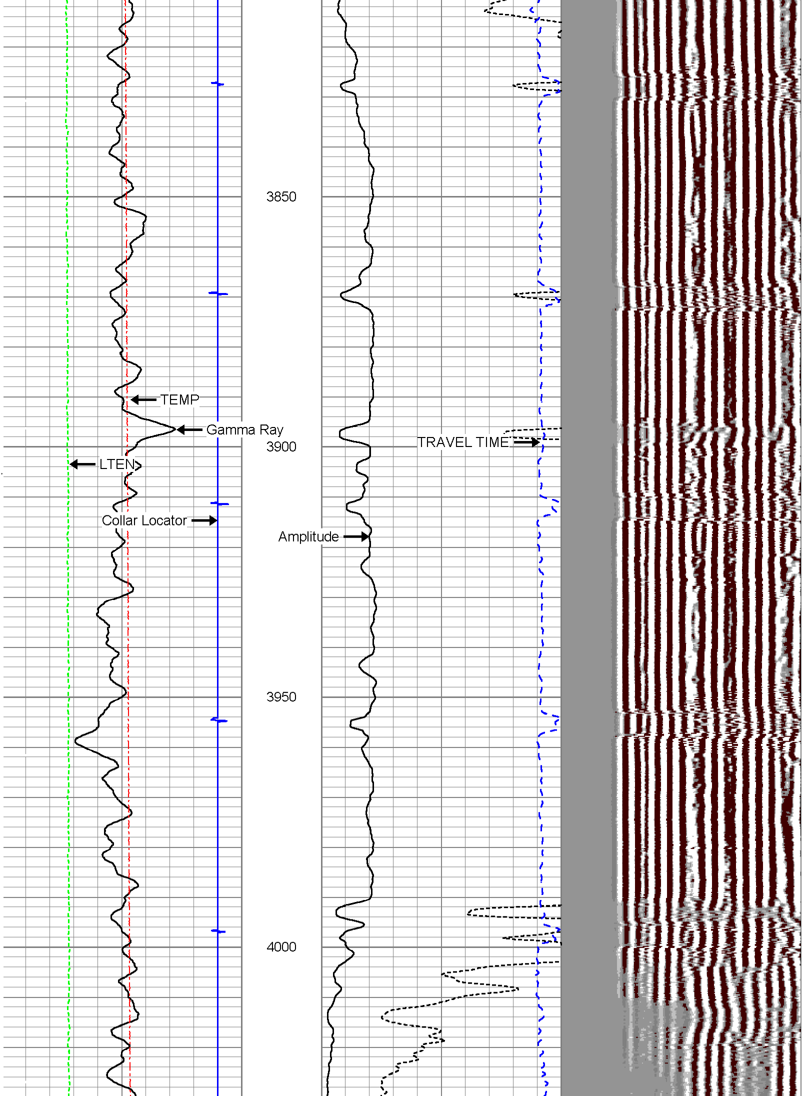


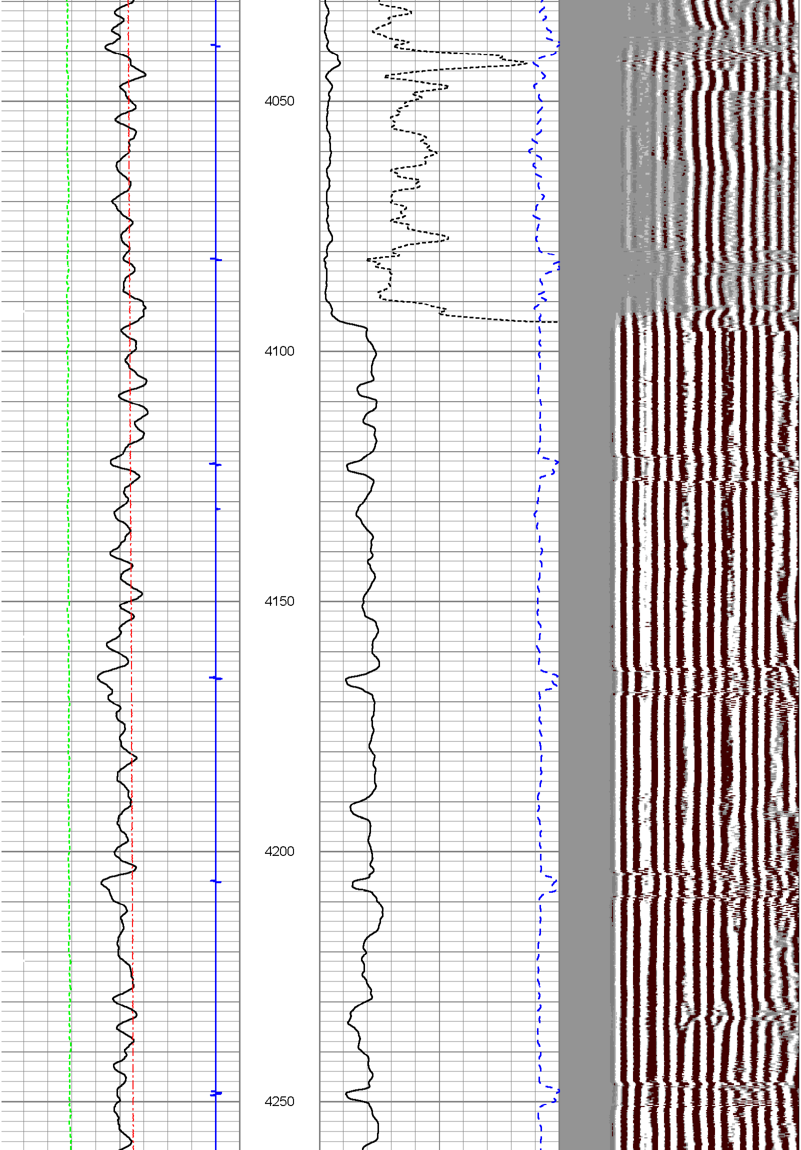


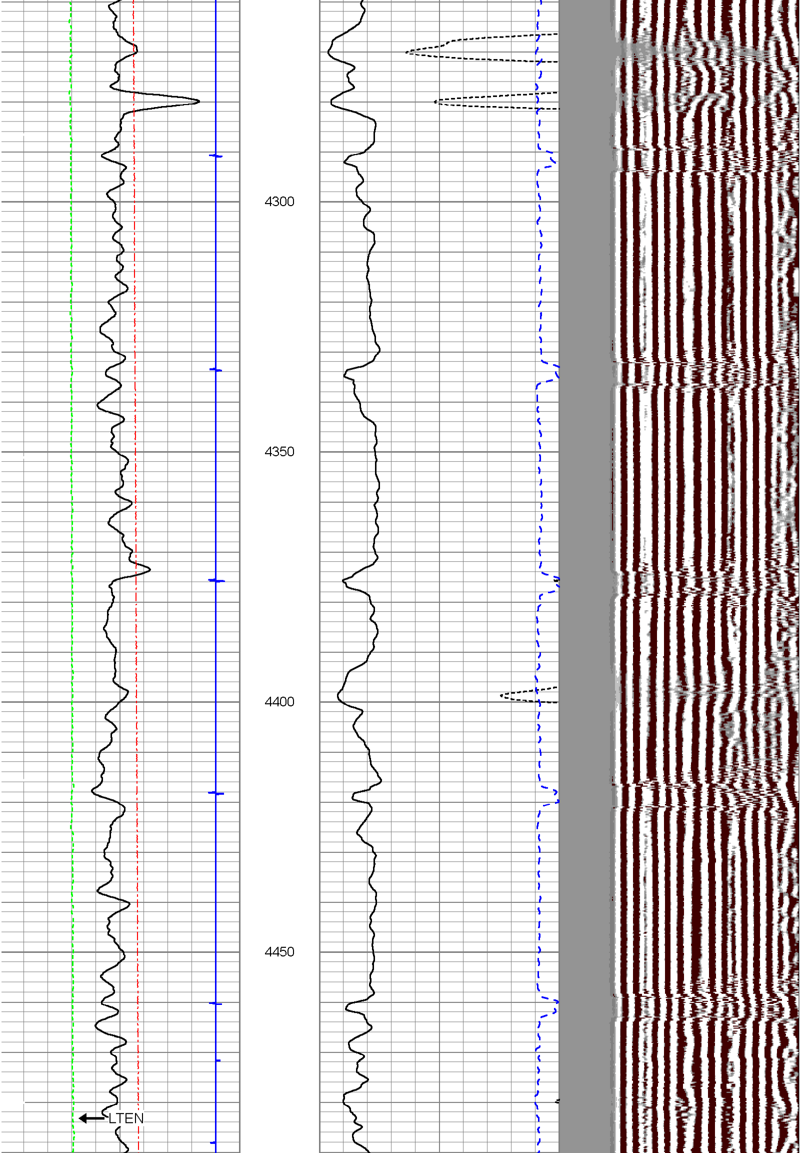


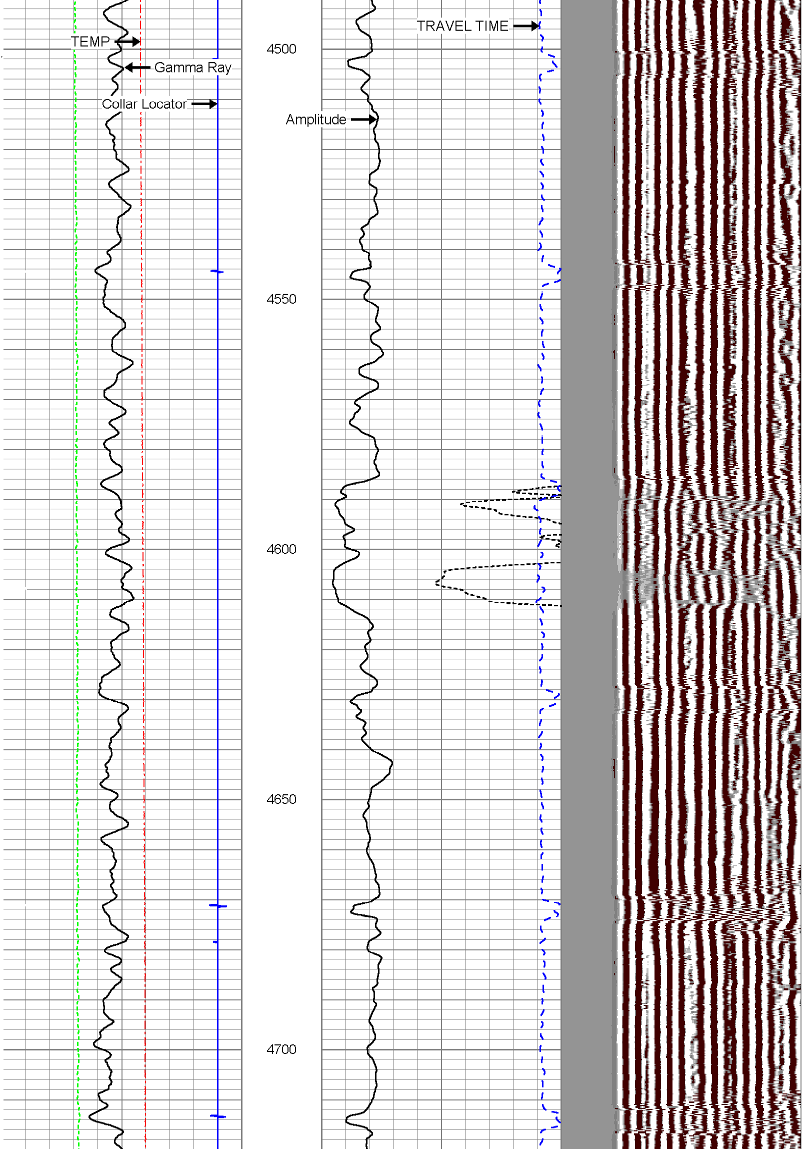


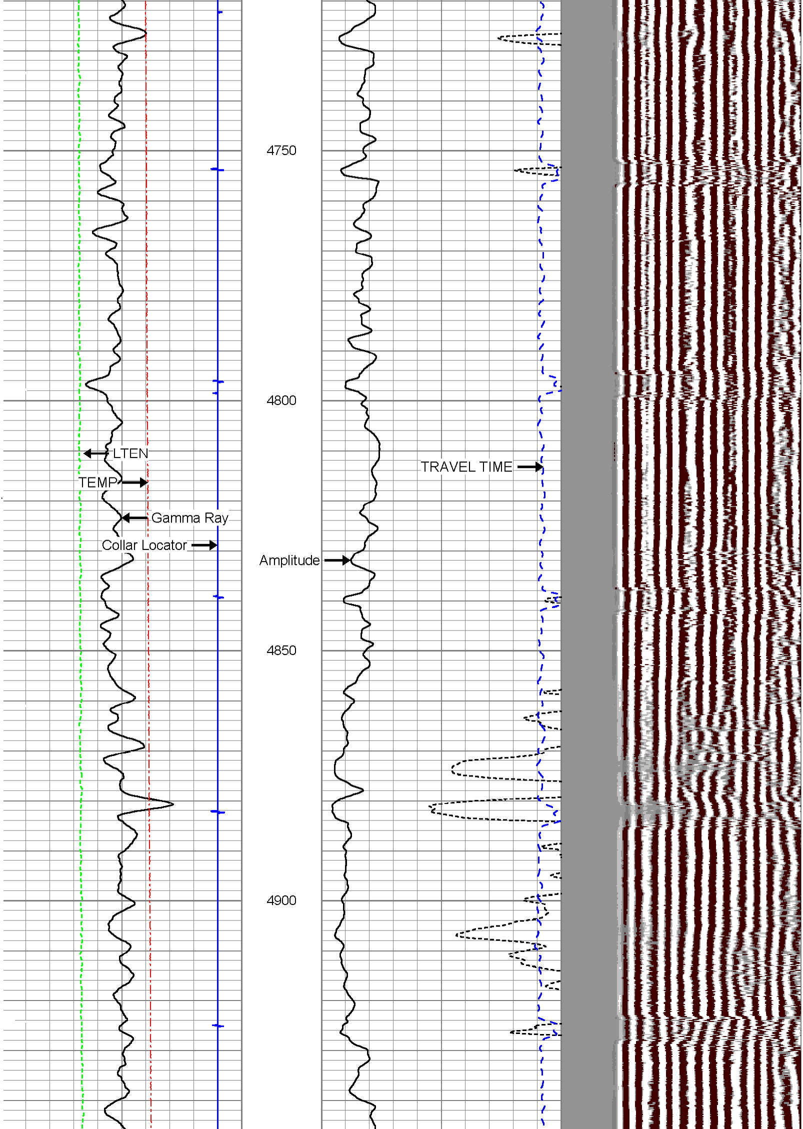


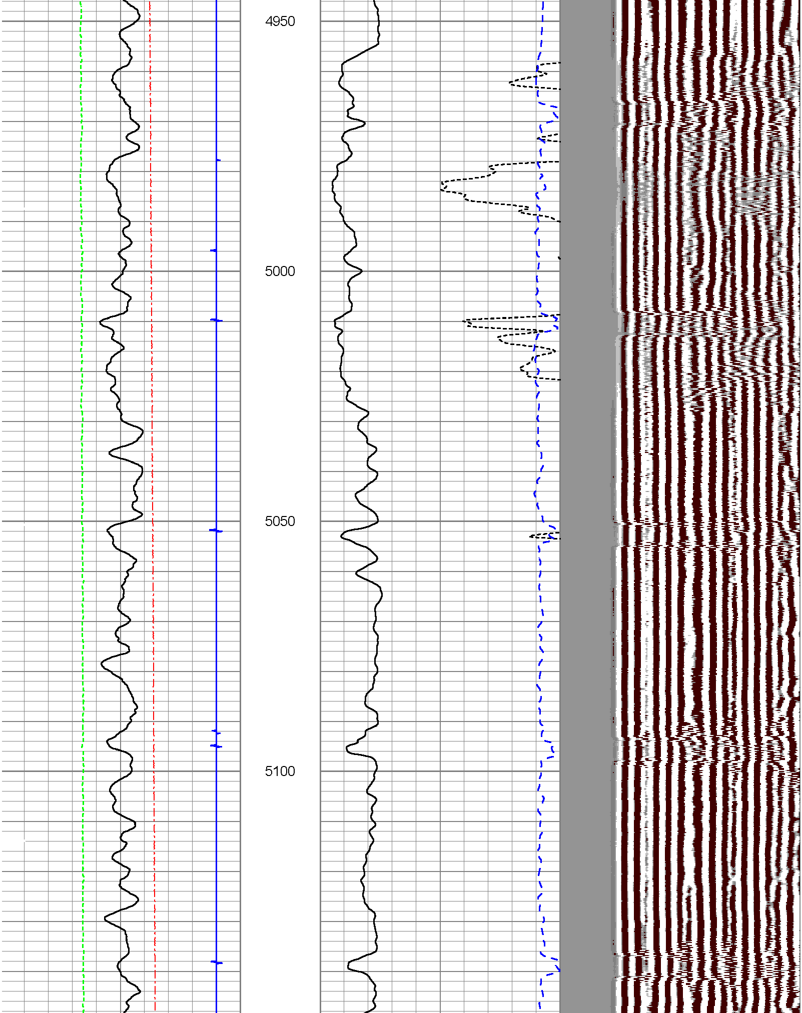


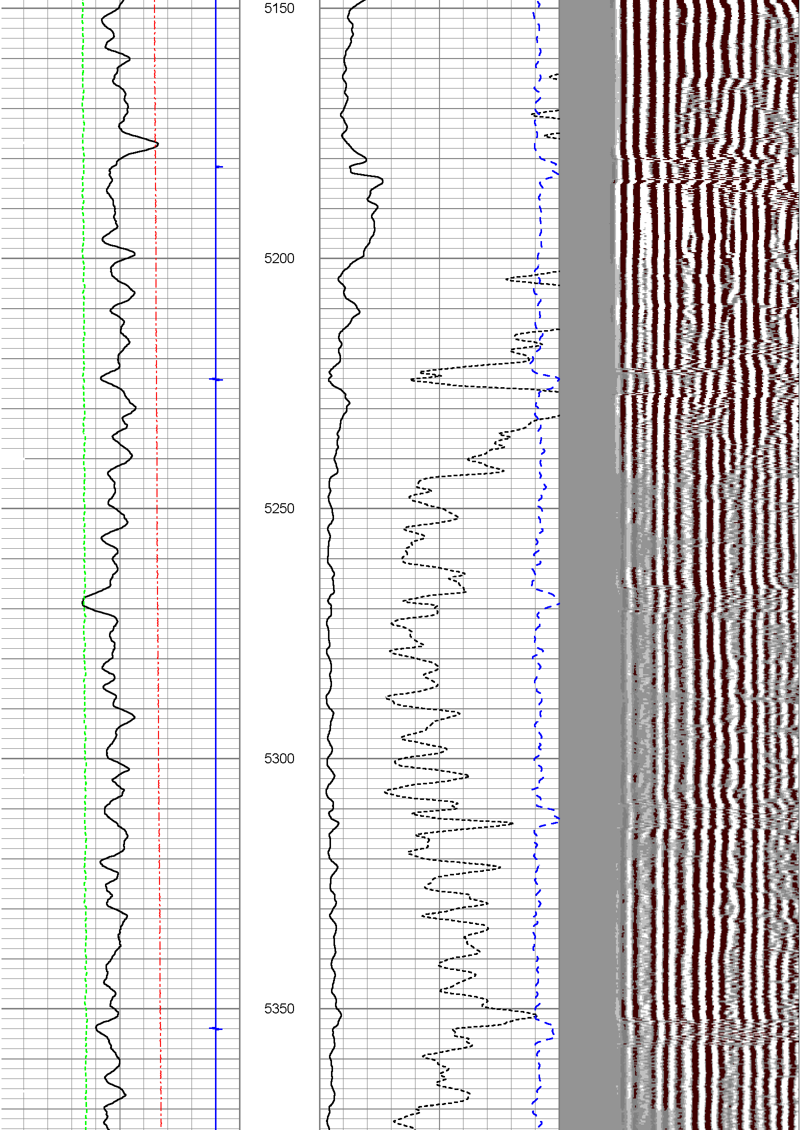


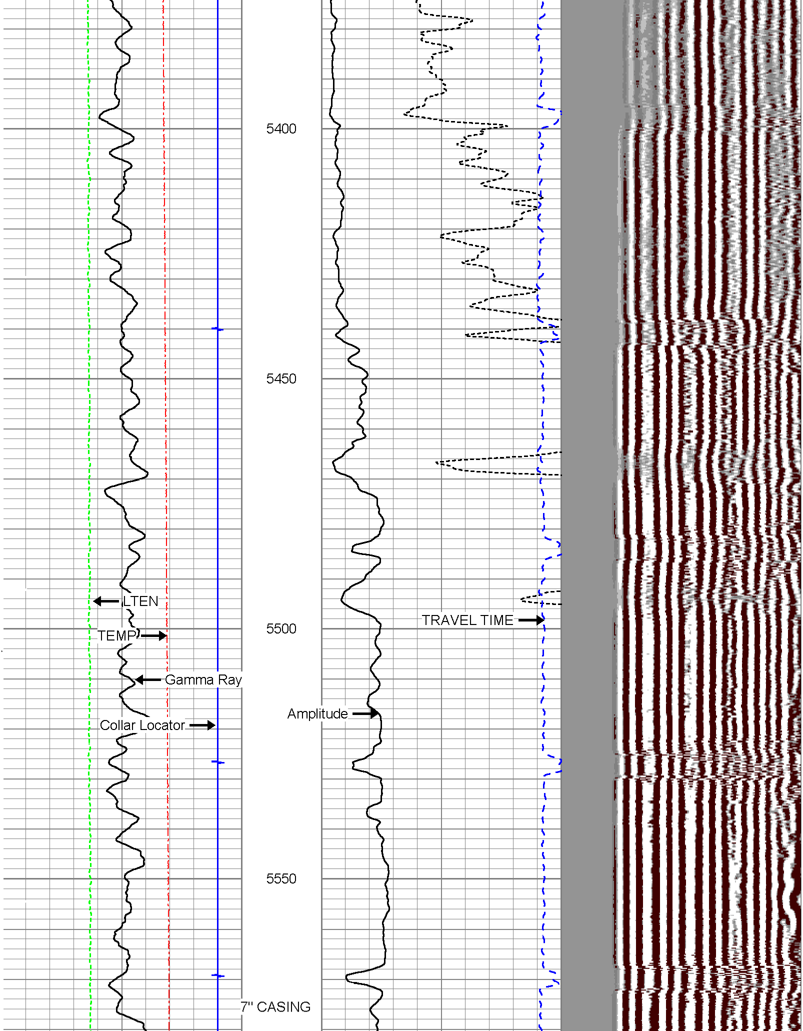


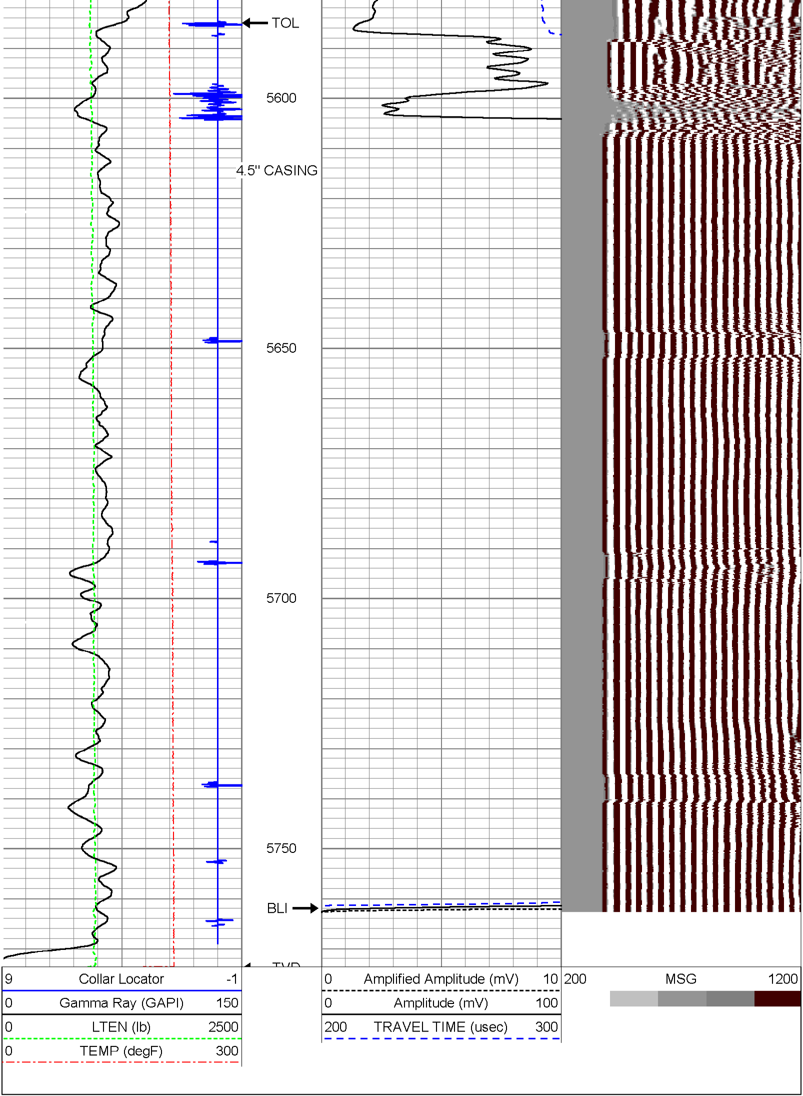












HALLIBURTON

MAIN PASS 1000 PSI

SCALE: 5" = 100'

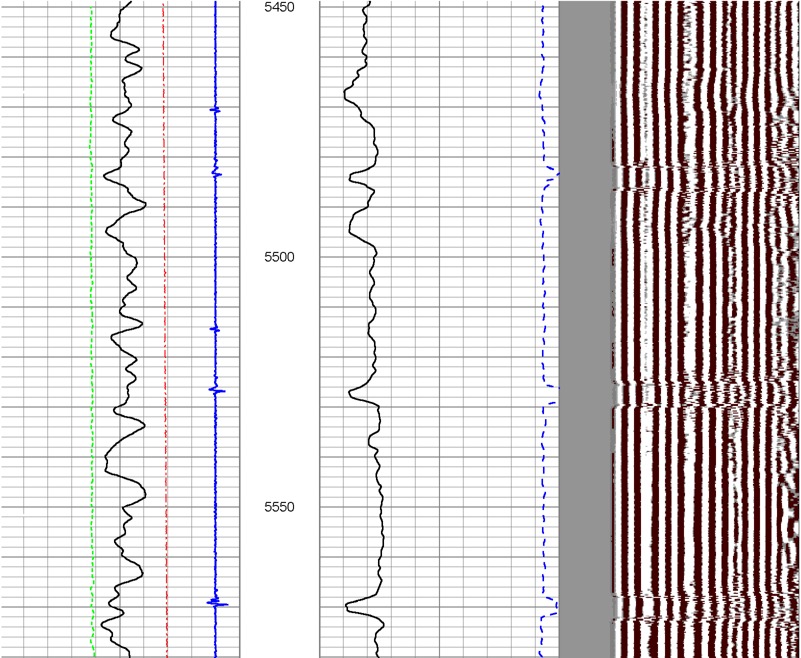
HALLIBURTON

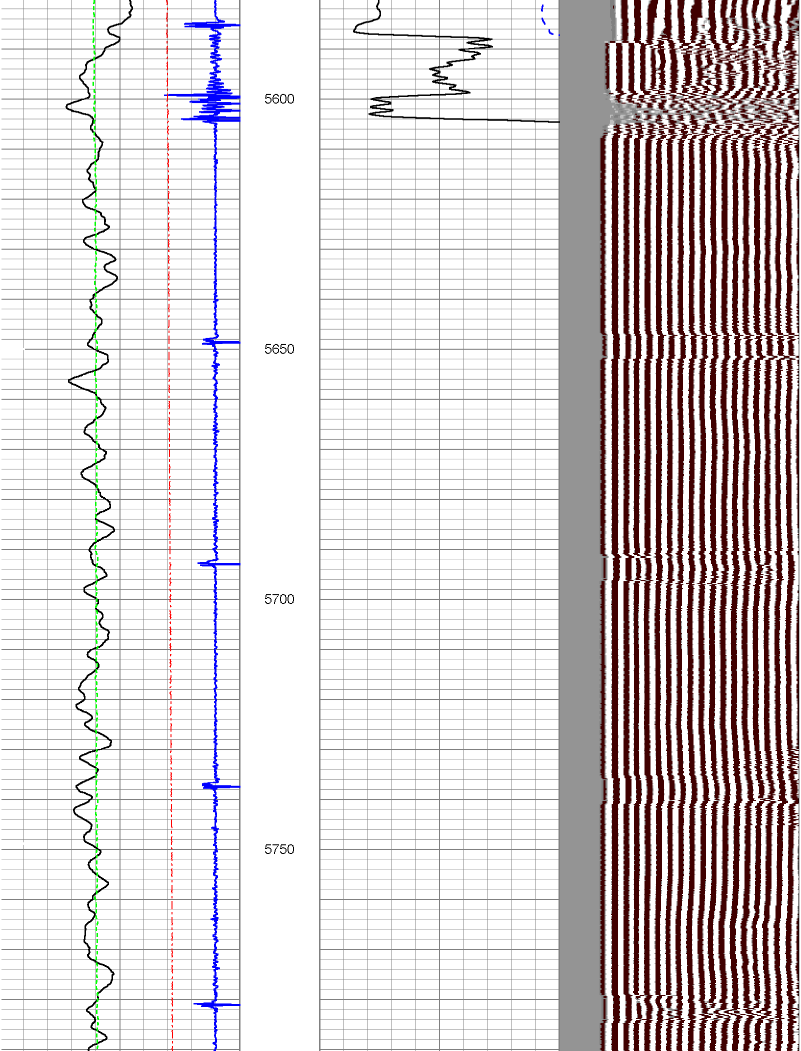
REPEAT PASS

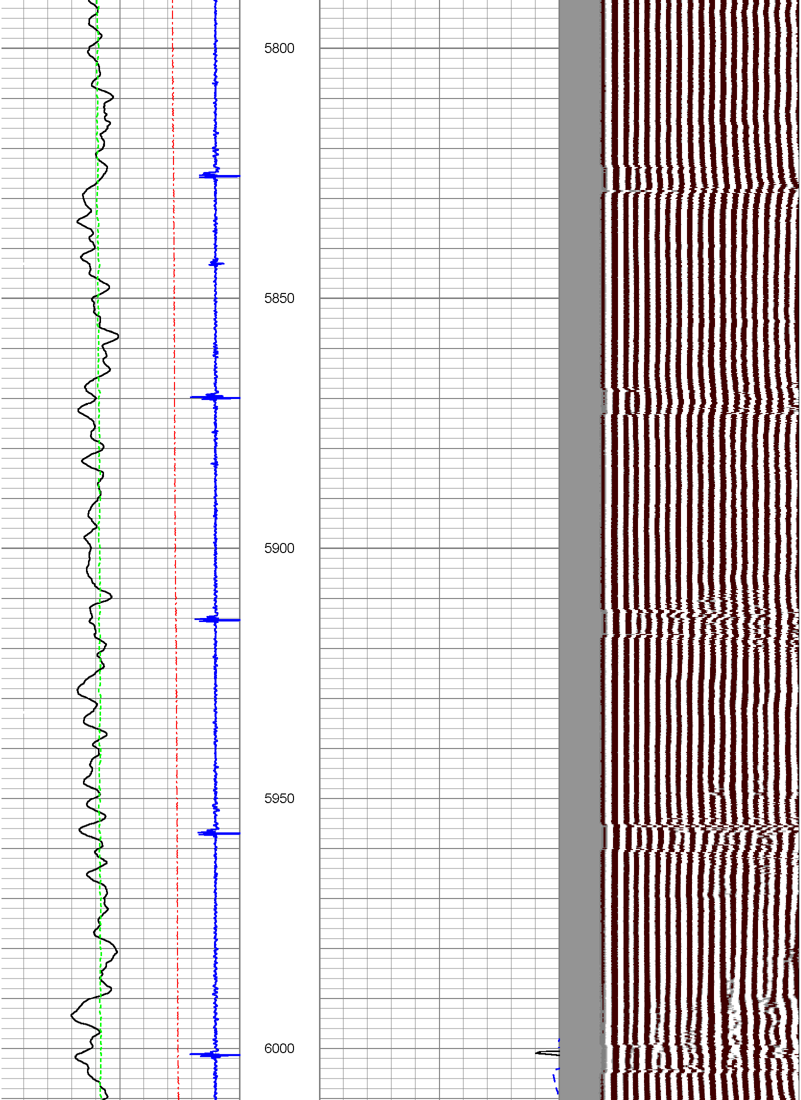
SCALE: 5" = 100'

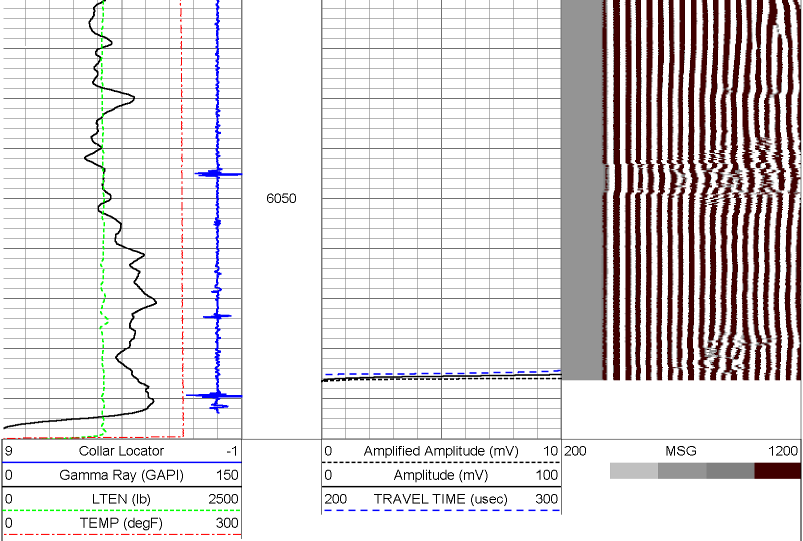
Database File:	bailey.db
Dataset Pathname:	pass7
Presentation Format:	1cbl
Dataset Creation:	Fri Sep 20 09:07:46 2013 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

Min	Curve	Max
9	Collar Locator	-1
0	Gamma Ray (GAPI)	150
0	LTEN (lb)	2500
0	TEMP (degF)	300
0	Amplified Amplitude (mV)	10
0	Amplitude (mV)	100
200	TRAVEL TIME (usec)	300
200	MSG	1200









HALLIBURTON

REPEAT PASS

SCALE: 5" = 100'

Log Variables

Database:D:\Warrior_data\bailey.db
Dataset: field/well/run1/pass10

Top - Bottom

PPT usec 287	MAXAMPL mV 62	MINAMPL mV 0	MINATTN db/ft 0.8	CASEOD in 7	PERFS 0	TDEPTH ft 5585	BOTTEMP degF 9226
BITSIZE in 8.75							

Calibration Report

Database File: bailey.db
Dataset Pathname: pass9
Dataset Creation: Fri Sep 20 09:21:38 2013 by Log Halliburton Casedho

Temperature Calibration Report

Serial Number:	Tit1.3_02	
Tool Model:	Titan	
Performed:	Tue Jul 30 08:19:25 2013	
	Reference	Reading
Low Reference:	71.00 degF	749.90 cps
High Reference:	77.00 degF	801.70 cps
Gain:	0.12	
Offset:	-15.86	
Delta Spacing	2	

Gamma Ray Calibration Report

Type / Serial: Probe / 275

	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION	Wed Sep 18 14:11:37 2013				
Background	79.7				cps
Calibrator	381.1				cps
		0.8062			GAPI/cps
PRIMARY VERIFICATION	Wed Sep 18 14:16:11 2013				
Background	69.3				cps
Calibrator	309.4				cps
Difference				240.2	GAPI
BEFORE SURVEY VERIFICATION	Fri Sep 20 08:18:10 2013				
Background	64.0				cps
Calibrator	297.7				cps
Difference				233.7	GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

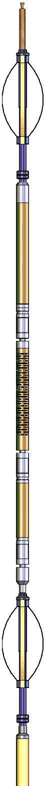
Cement Bond Log Calibration Report

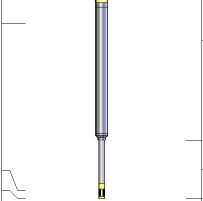
Serial Number:	275		
Tool Model:	Probe		
Performed:	Fri Sep 20 08:40:45 2013		
Depth:	165.707	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.15	0.15	mV
Calibrated Amplitude:	62	62	mV
Reading at Signal Zero:	0.00336914	0.00341797	V
Reading in Free Pipe:	0.957153	1.06641	V
Gain:	64.847	58.185	
Offset:	-0.0684785	-0.0488746	

Sensor Report

Database File: bailey.db
Dataset Pathname: pass10
Dataset Creation: Fri Sep 20 10:44:48 2013 by Log Halliburton Casedho

Sensor Name	Offset (ft)
WVF3	12.72
WVF5	11.72
CCL	5.08
GR	3.79
TEMP	0.17
Ex1	0
FrameCnt	0
ErrCnt	0
LLMTEN	0
Telemetry	0

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
STNDCH	21.29					
			1_CABLEHEAD 1"OD CABLE HEAD	1.02	1.44	3.00
CENT	20.27					
			CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	2.88	2.75	35.00
			CBL-Probe (275) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
WVF3	12.72					
WVF5	11.72					
CENT	8.47					
			CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	2.88	2.75	35.00
GR	5.58					
CCL	5.08					

GR	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: bailey.db: field/well/run1/pass9
Total Length: 21.29 ft
Total Weight: 173.00 lb
O.D. 2.75 in

Company CARRIZO
Well BAILEY 5-26-8-60
Field WILDCAT
County WELD State CO

HALLIBURTON

CEMENT BOND
LOG