HALLIBURTON

CEMENT BOND LOG

SCALE: 5"=100'

Company	CARRIZO OIL & GAS INC		
Well	BRINGELSON 11-20-9-58		
Field	WILDCAT		
County	WELD	State	CO

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API No.: 05-123-38611-00 Serv #: 901270638

Location: LAT:40.734750 LONG:-103.895660
SHL :2001' FSL & 546' FWL
BHL: 2400' FSL 600' FEL

Sec: 20 Twp: 9N Rge: 58W

Other Services

NONE

Permanent Datum	GL	Elevation	4927	Elevation
Log Measured From	KB	17 Ft. above perm. datum		K.B. 4944
				D.F. 4943
Drilling Measured From	KB			G.L. 4927

Date @ Time Logged	17-APR-2014 @ 14:50	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.33
Depth - Driller	10297	Fluid Level	SURFACE
Depth - Logger	5813	Cement Top Est. Logged	678
Bottom - Logged Interval	5800	Equipment / Location	11703208 / BRIGHTON
Top - Log Interval	60	Recorded by	M. WOODALL
Max. Recorded Temp.	200	Witnessed by	MR. JEFF SCHNEIDER

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	N/A			
Cement Type / Weight	/	/	/	/
Formulation				
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record				Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.75	0	6071	7	23.0	0	6071
LINER	6.125	5285	10297	4.5	11.60	5285	10297

<<< 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 (CORRELATED TO LINER TOP)

BLANKET VALUE : 241 GAPI
ESTIMATED TOP OF CEMENT @ 678'
TOP OF LINER @ 5365'

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES
YOUR CREW TODAY: J. SAAD, M. THEIS, B. DUNKEL

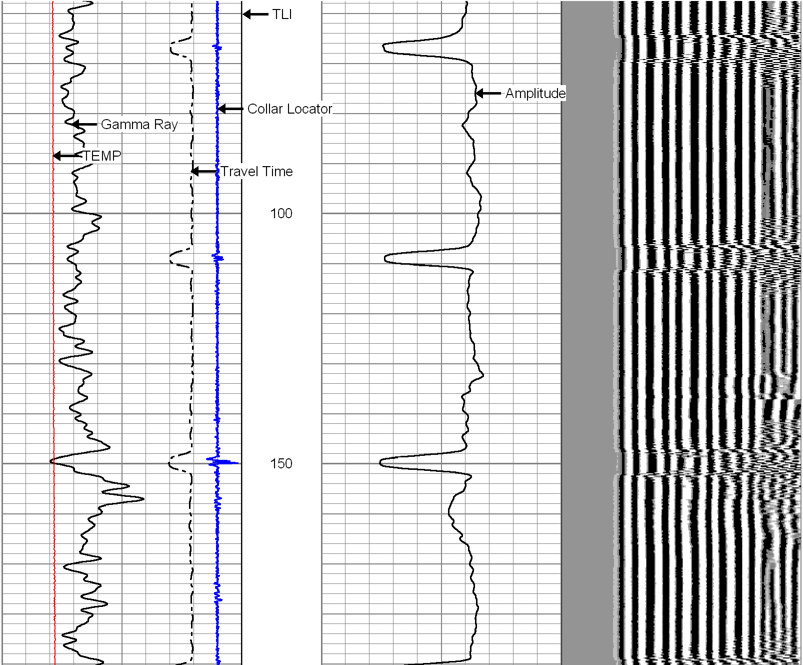
HALLIBURTON

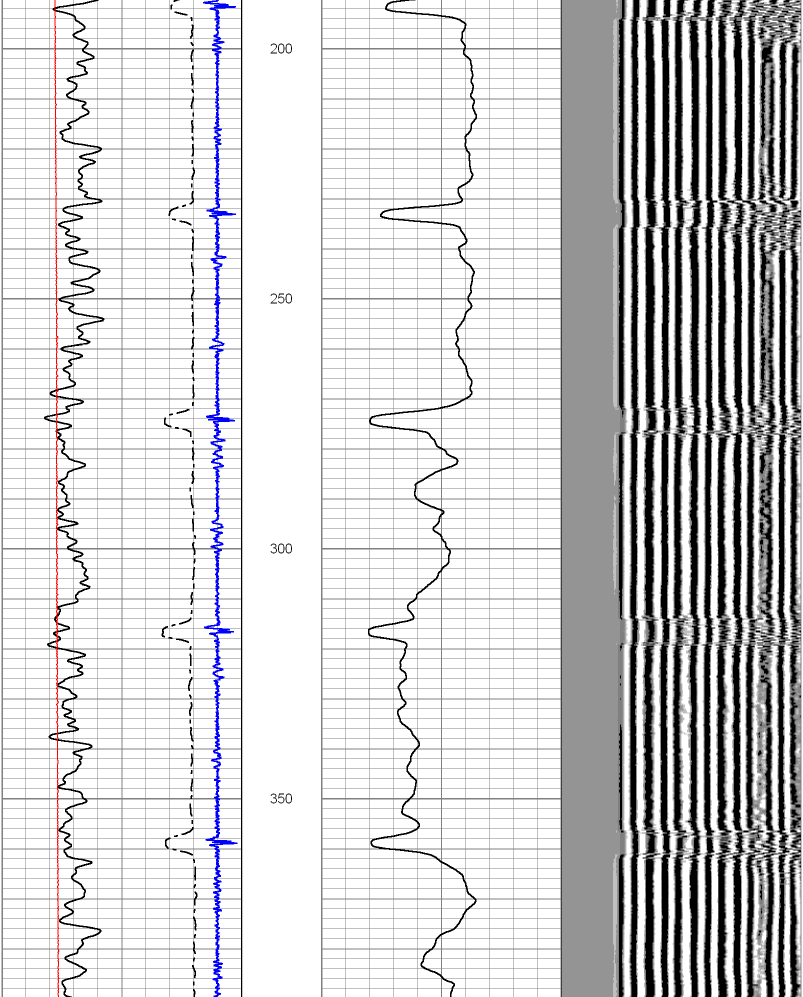
MAIN PASS UNDER 1000 PSI

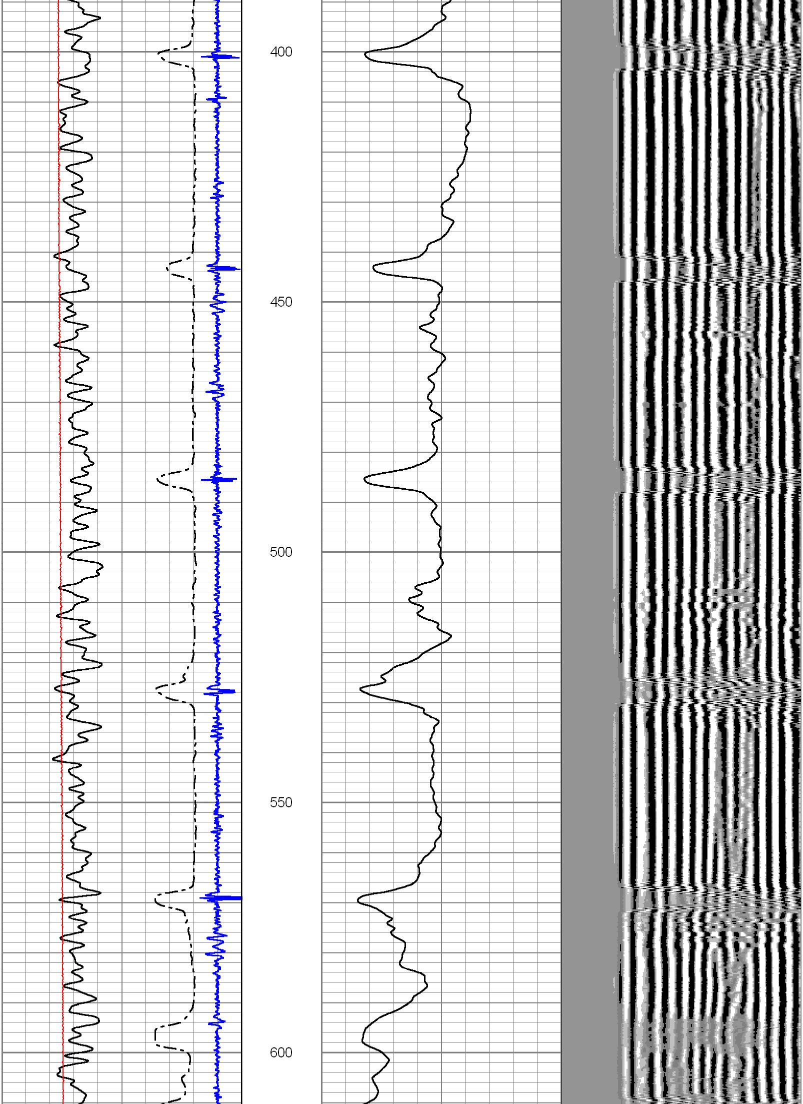
SCALE 5"=100'

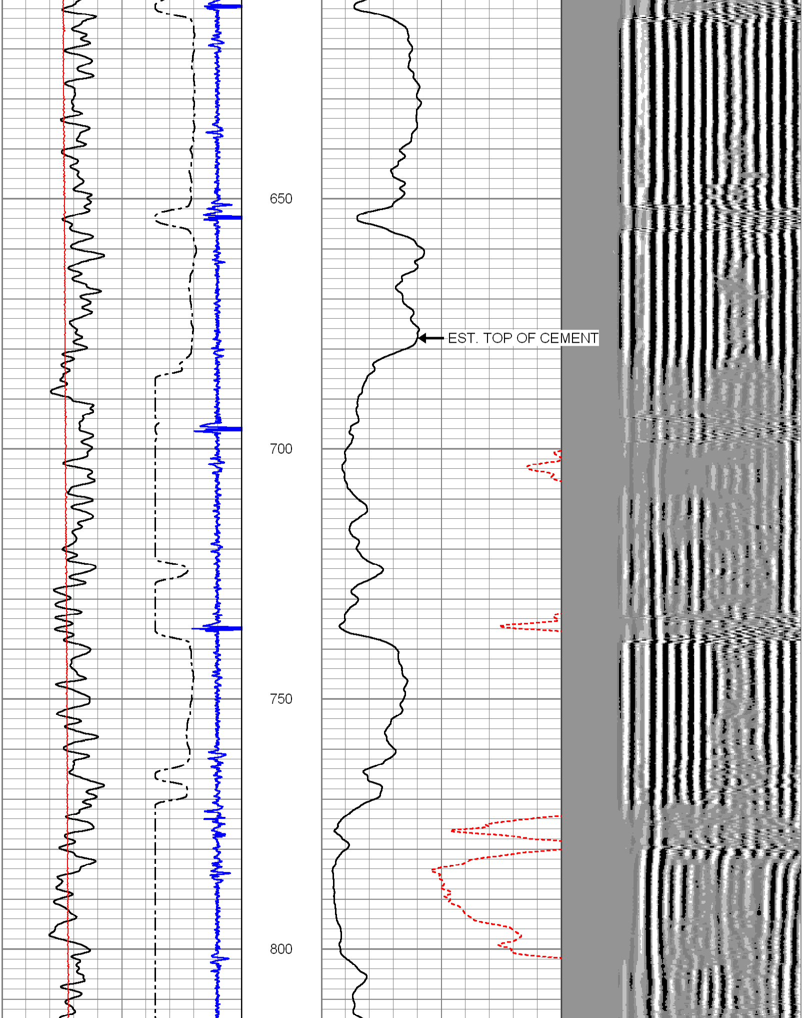
Database File:	carrizo_bringelson_ranch_11_20_9_58.db
Dataset Pathname:	pass3
Presentation Format:	2katcbl
Dataset Creation:	Thu Apr 17 14:53:36 2014 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

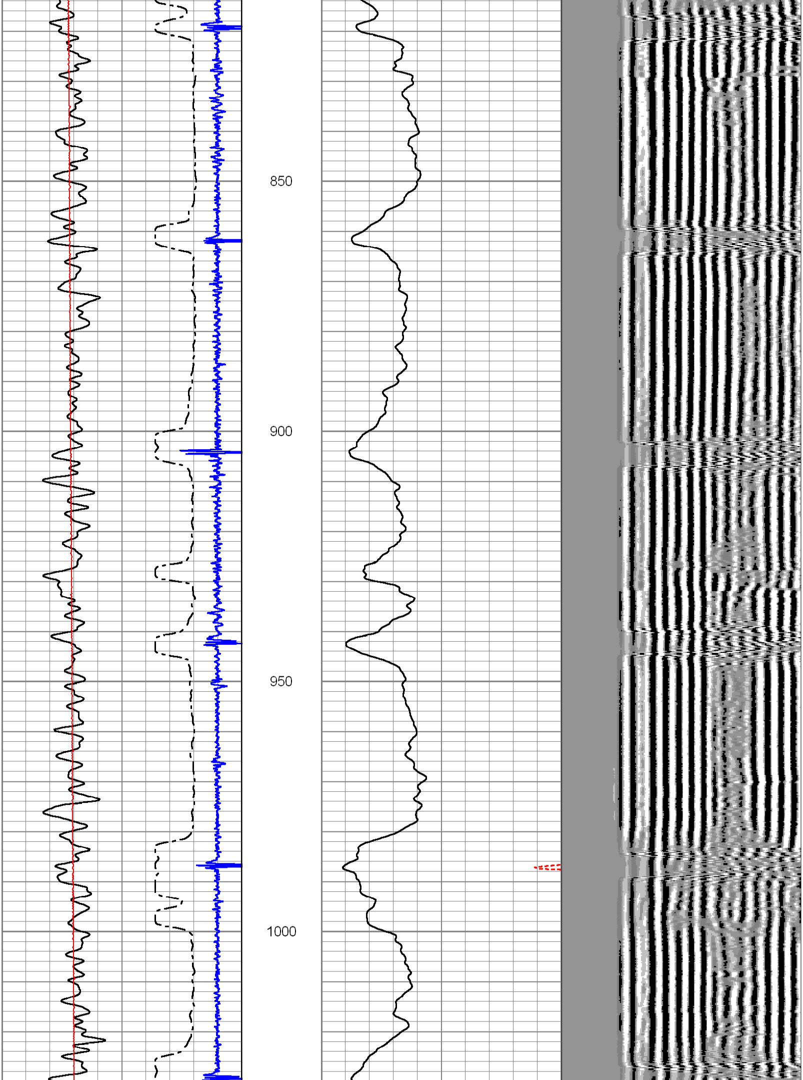
Left	Curve	Right
18	Collar Locator	-2
0	Gamma Ray (GAPI)	150
380	Travel Time (usec)	280
0	TEMP (degF)	250
0	Amplified Amplitude (mV)	10
0	Amplitude (mV)	100
200	MSG	1200

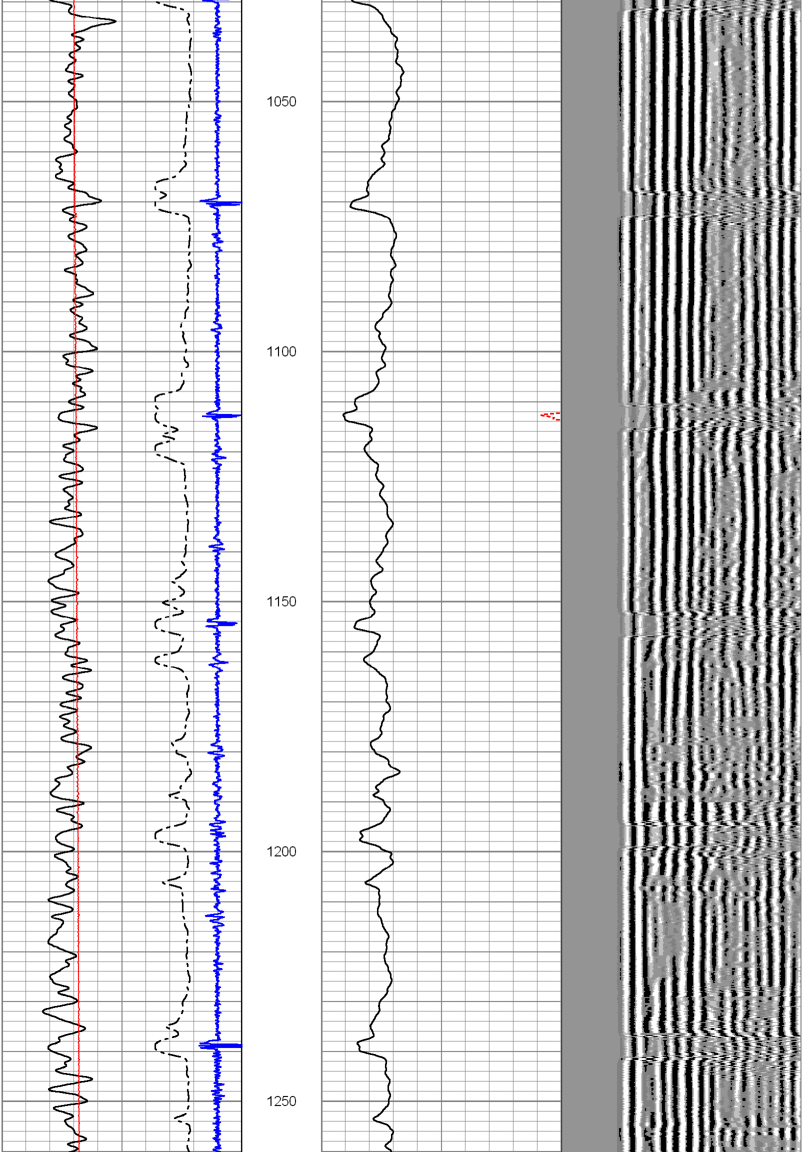


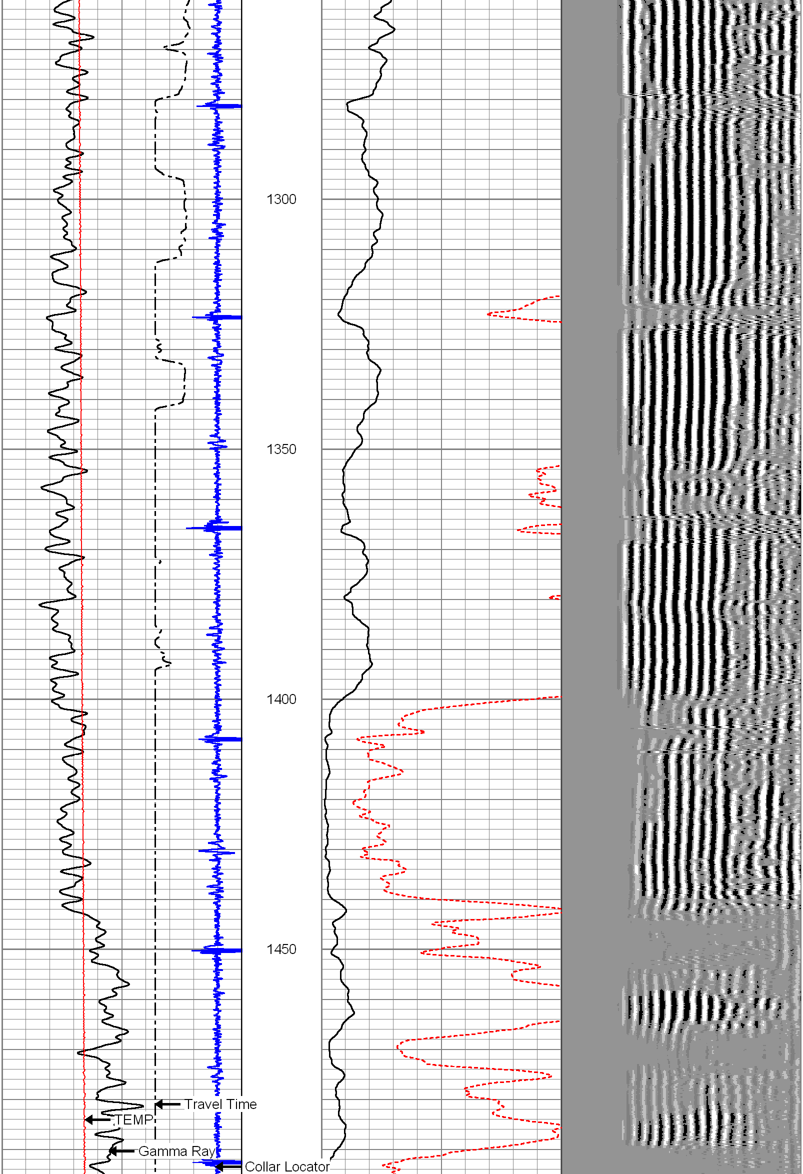


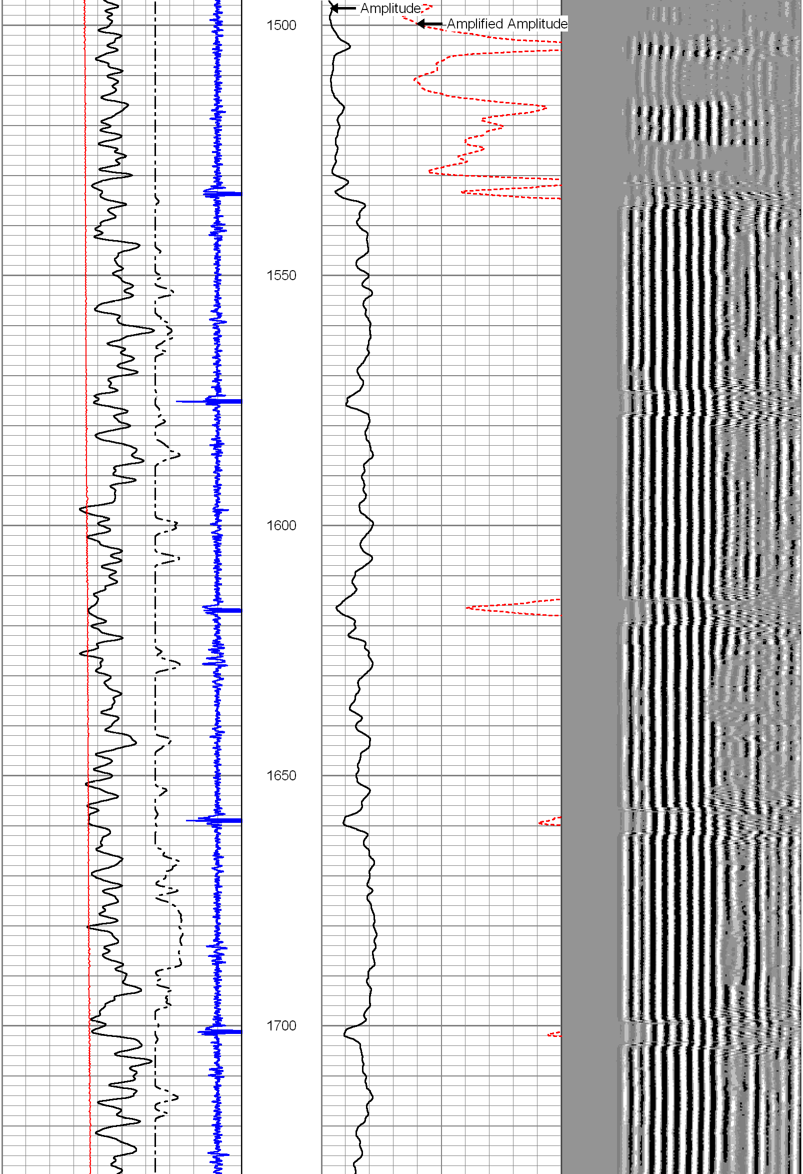


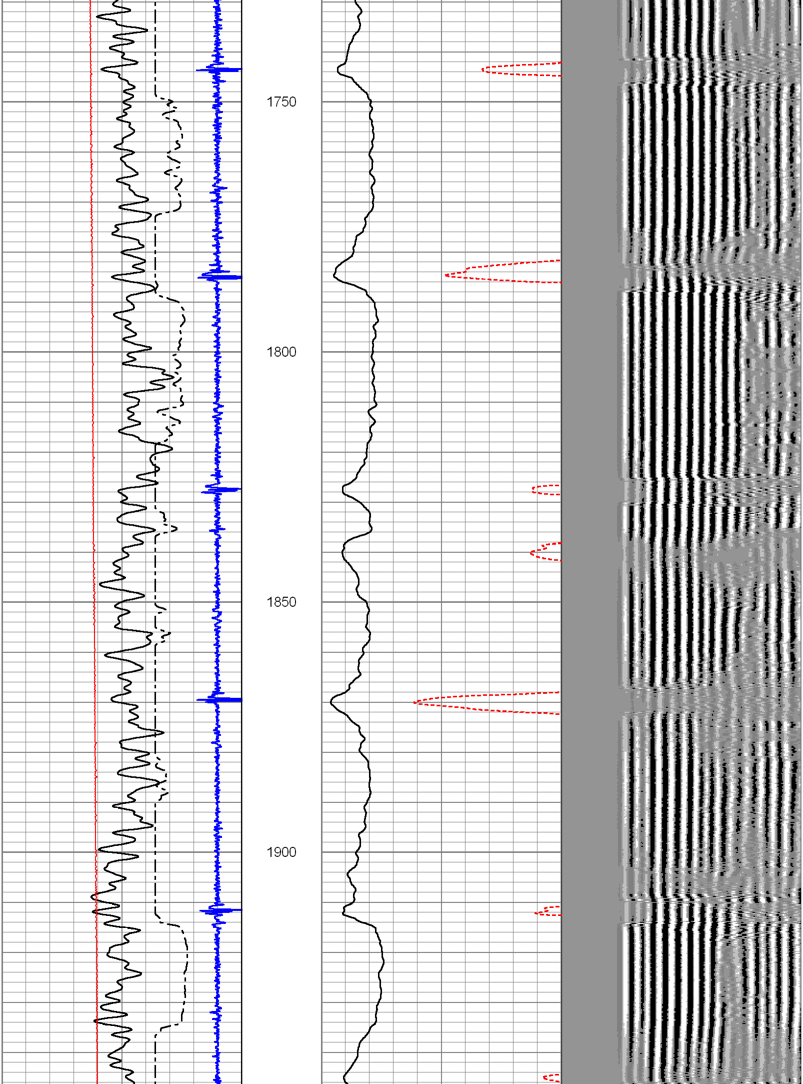


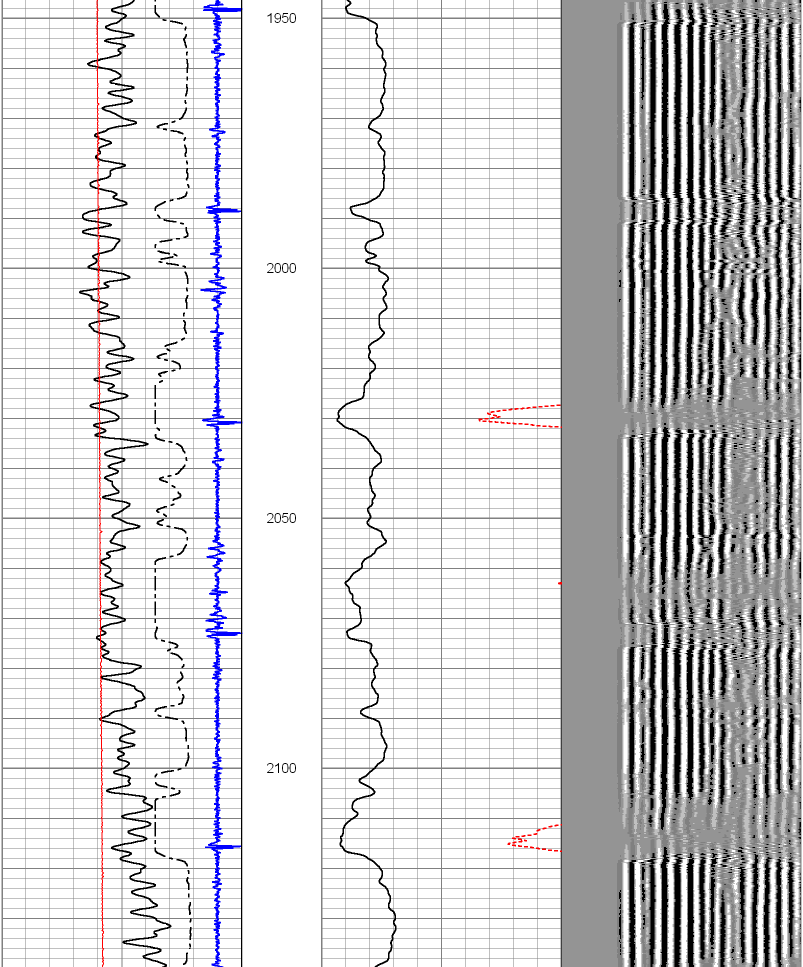


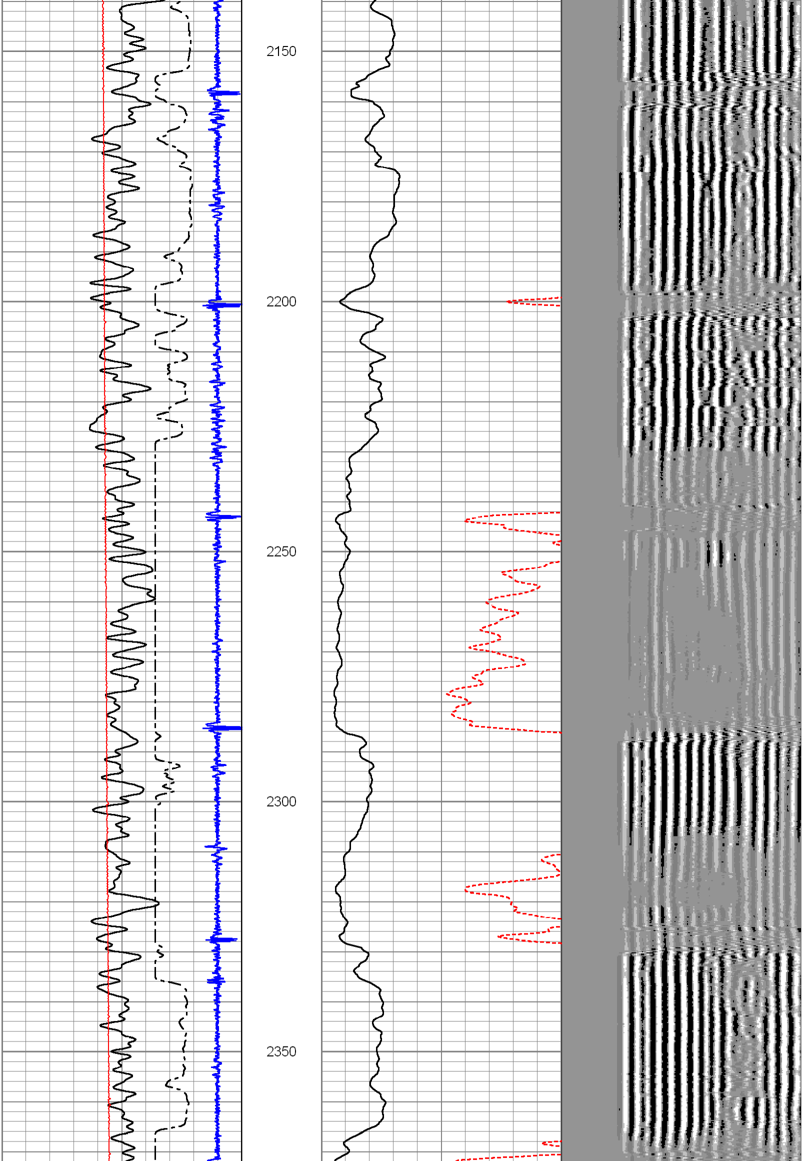


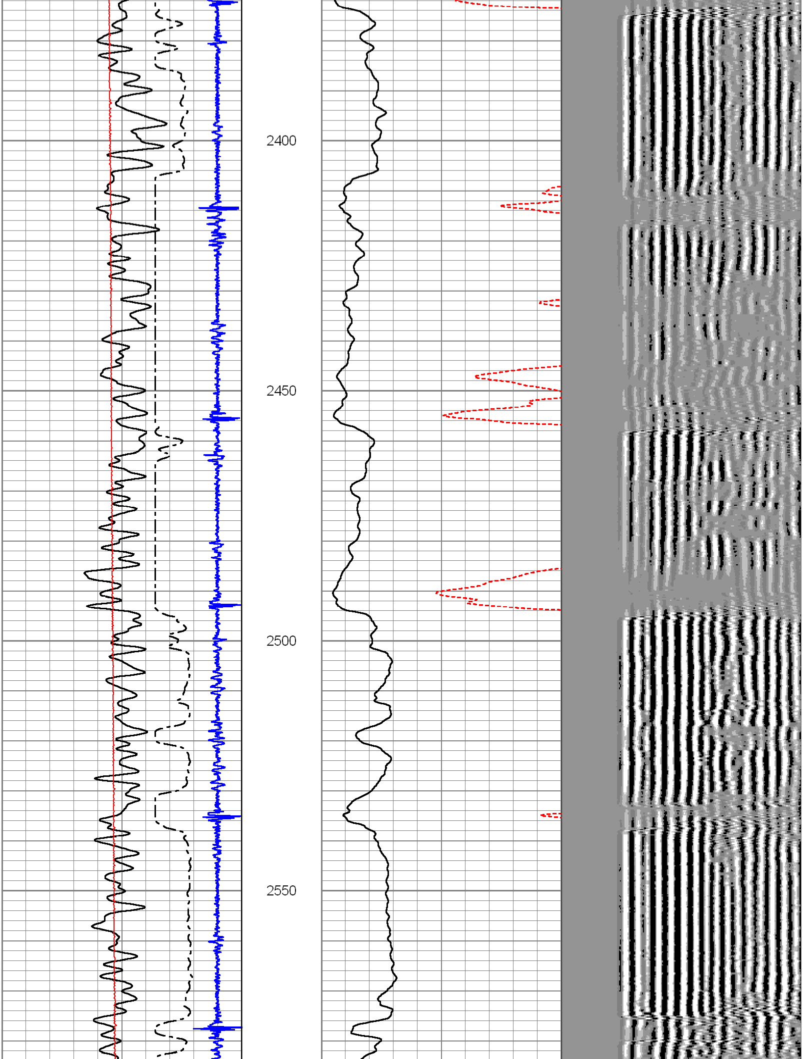


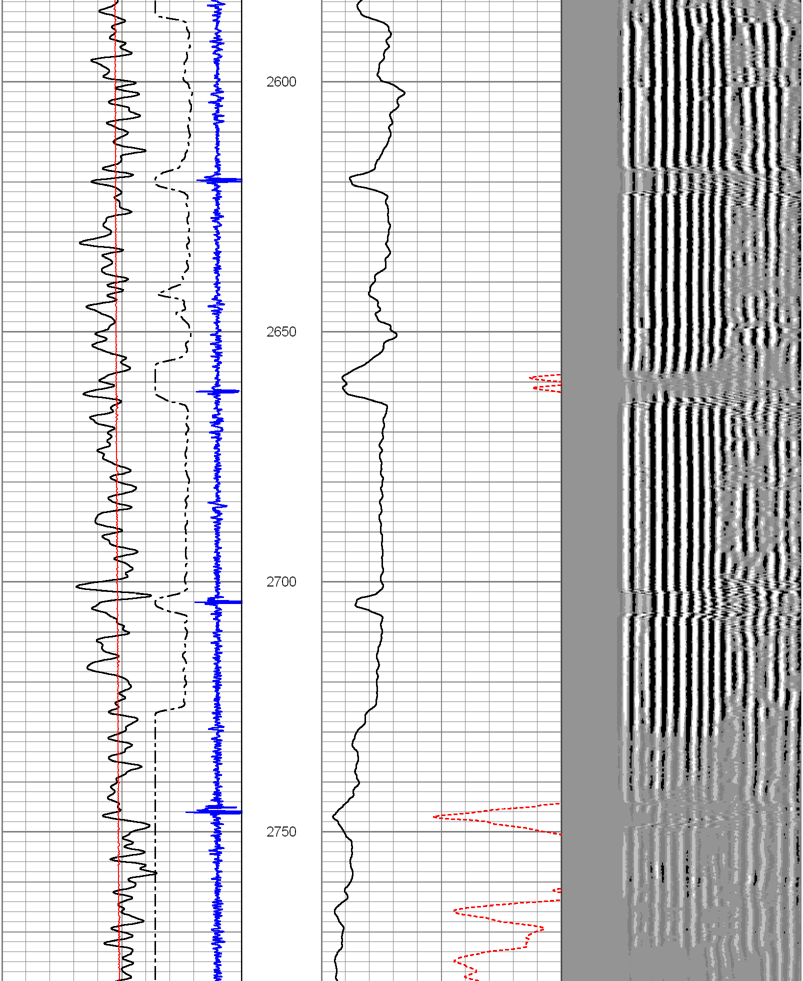


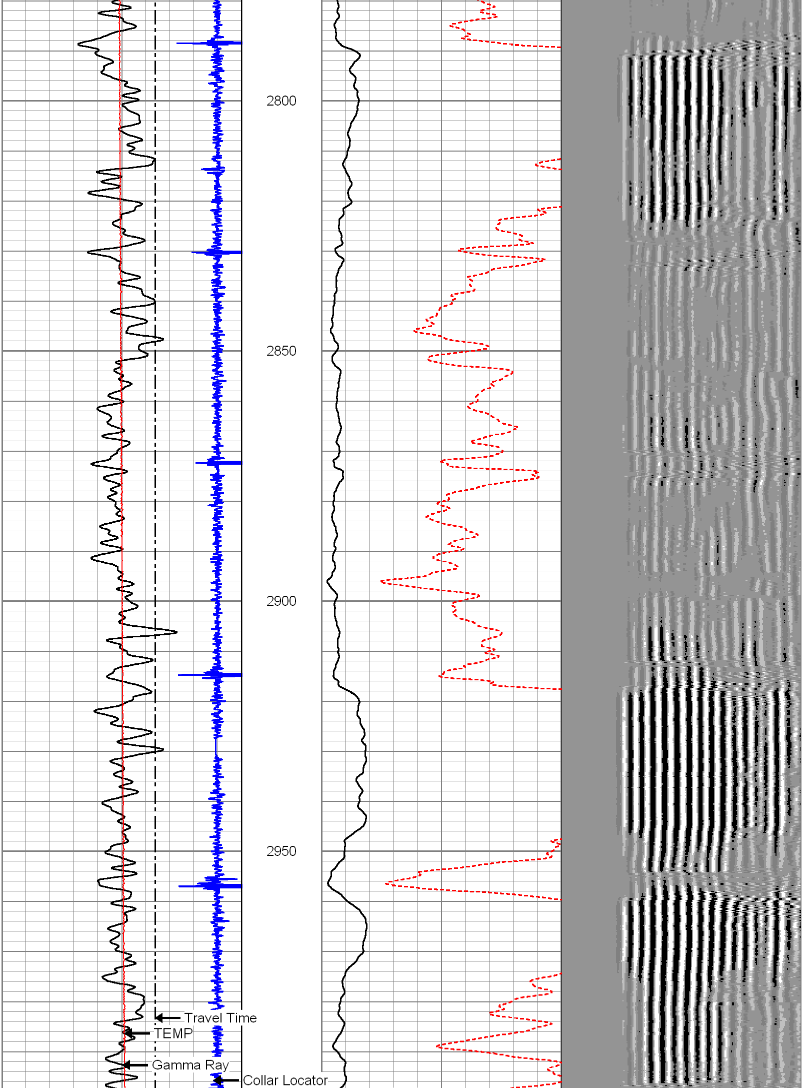


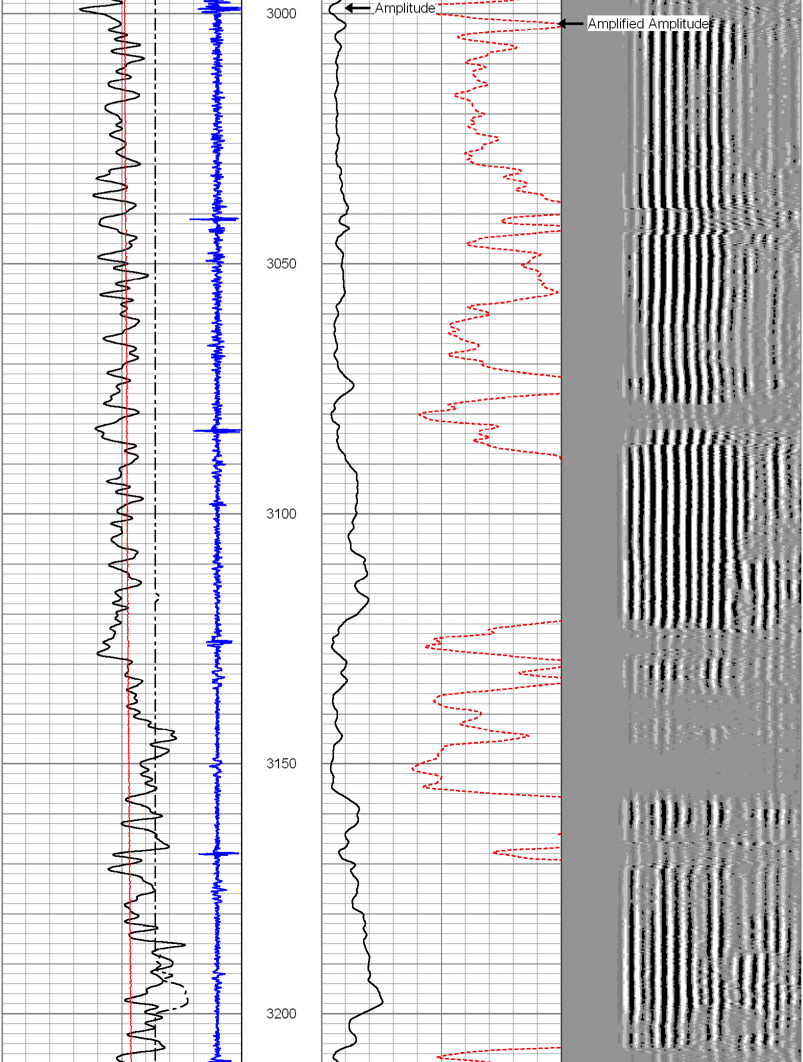


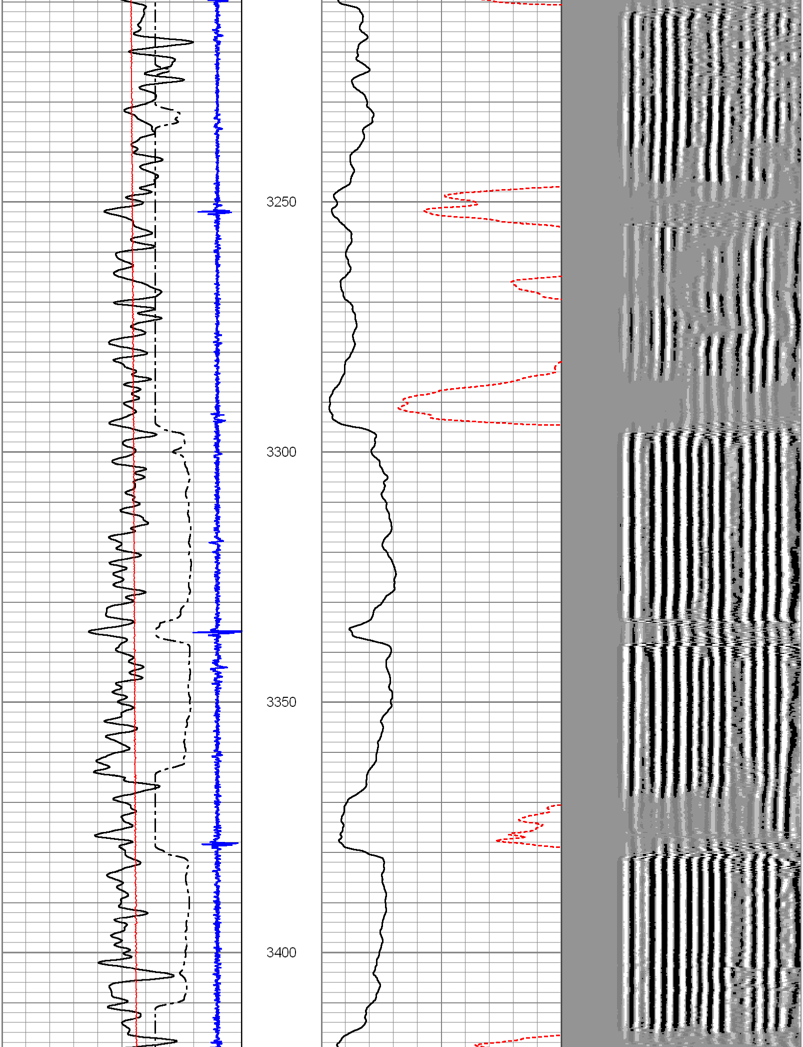


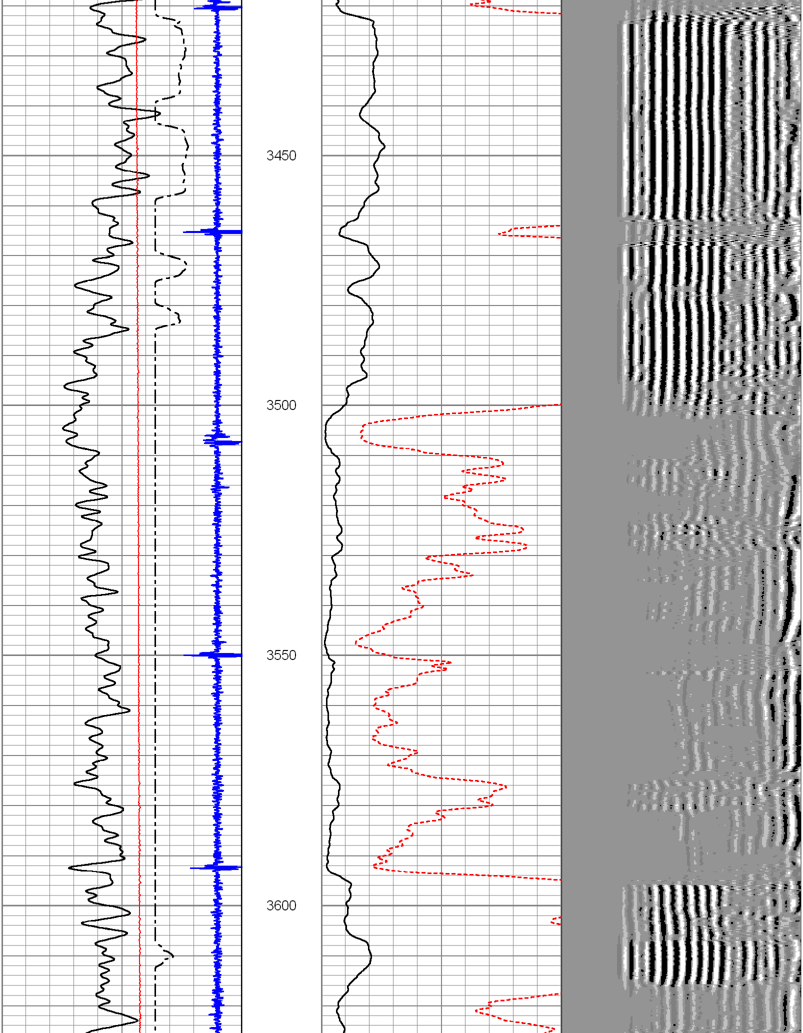


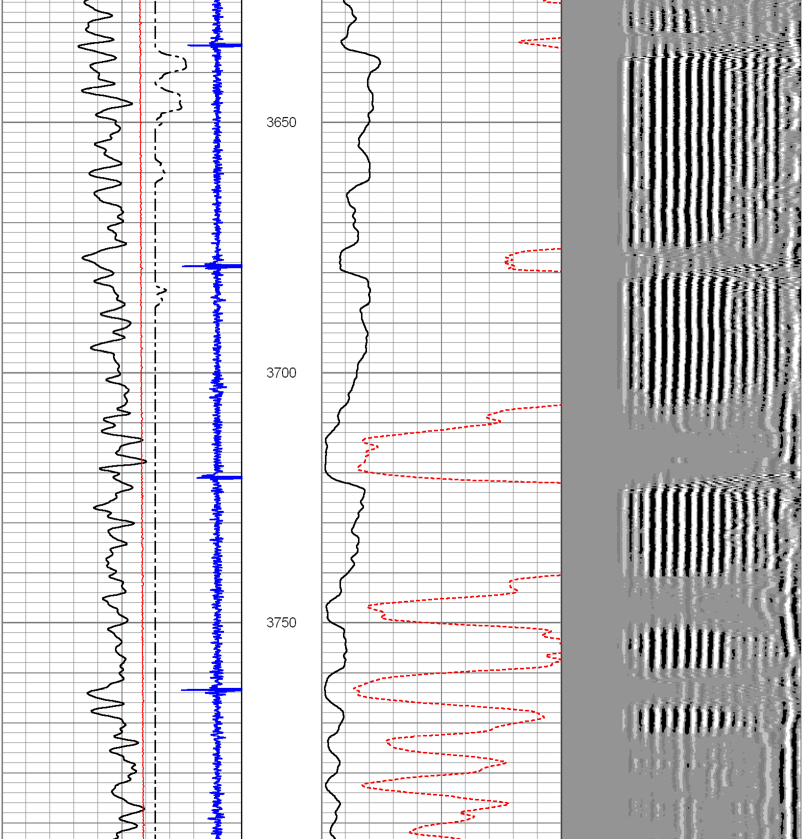












HALLIBURTON

MAIN PASS UNDER 1000 PSI

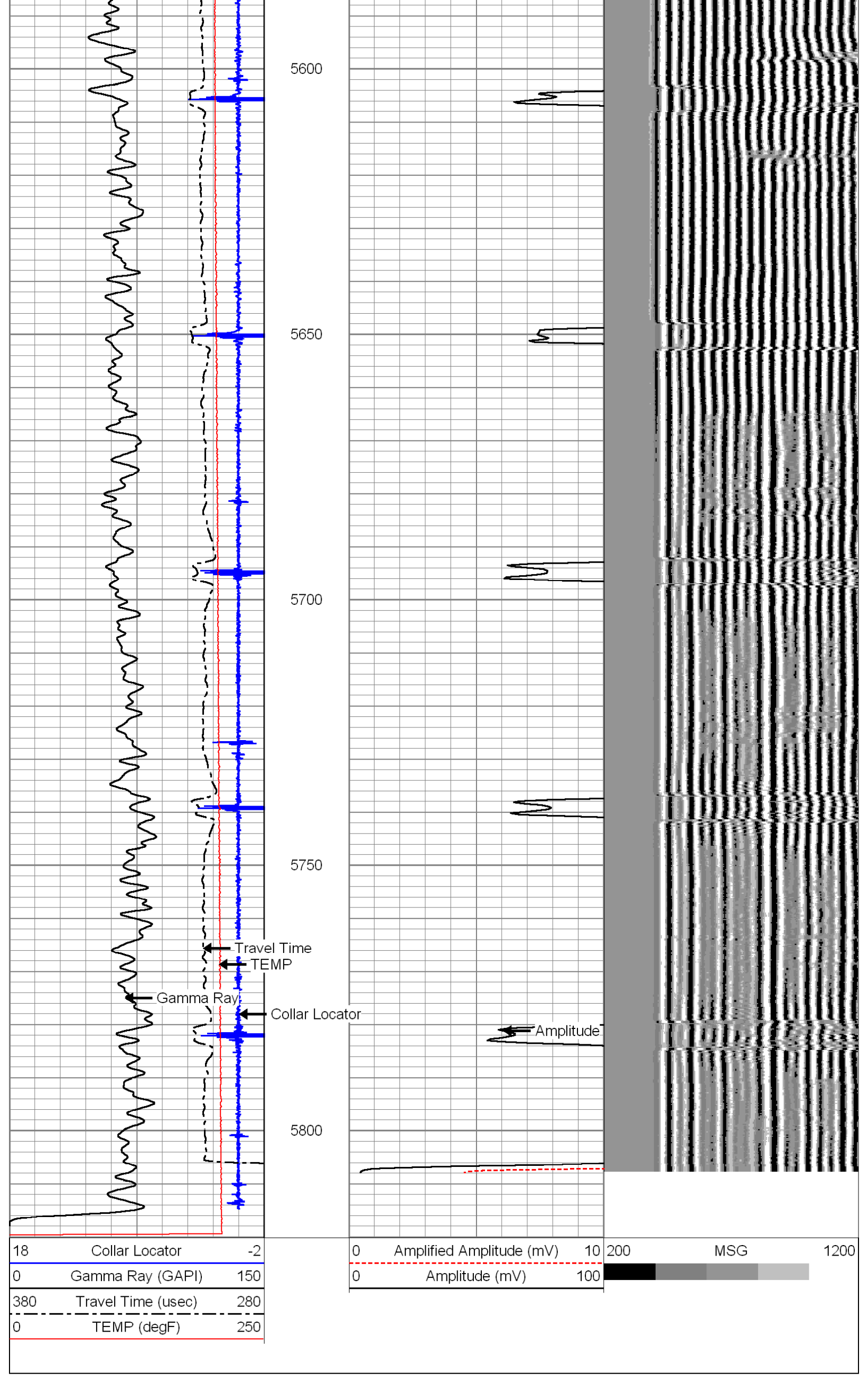
SCALE 5"=100'

HALLIBURTON

REPEAT PASS UNDER 1000 PSI

SCALE 5"=100'

Database File: carrizo_bringelson_ranch_11_20_9_58.db
Dataset Pathname: pass2
Presentation Format: 2katcbl
Dataset Creation: Thu Apr 17 14:46:18 2014 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240



HALLIBURTON

REPEAT PASS UNDER 1000 PSI

SCALE 5"=100'

Calibration Report

Database File: carrizo_bringelson_ranch_11_20_9_58.db
Dataset Pathname: pass4
Dataset Creation: Thu Apr 17 16:00:35 2014 by Log Halliburton Casedho

Temperature Calibration Report

Serial Number: Tit1.3_02
Tool Model: Titan
Performed: Fri Jan 04 07:55:24 2002

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

Gain: 0.10
Offset: 0.00
Delta Spacing: 2

Gamma Ray Calibration Report

Type / Serial: Probe / 275

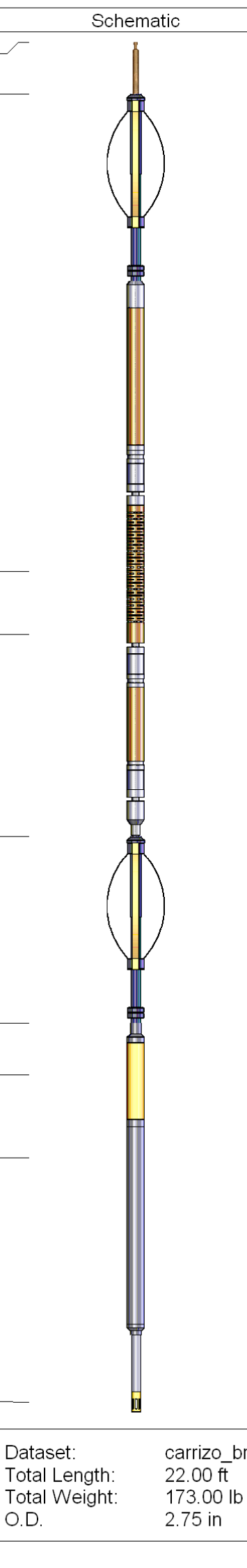
	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION	Sun Apr 14 16:21:42 2013				
Background	119.3				cps
Calibrator	459.2				cps
		0.7090			GAPI/cps
PRIMARY VERIFICATION	Sun Apr 14 16:26:20 2013				
Background	81.6				cps
Calibrator	324.0				cps
Difference				242.5	GAPI
BEFORE SURVEY VERIFICATION	Thu Apr 17 07:31:29 2014				
Background	87.7				cps
Calibrator	333.4				cps
Difference				245.7	GAPI
AFTER SURVEY VERIFICATION	Thu Apr 17 10:21:32 2014				
Background	89.9				cps
Calibrator	338.7				cps
Difference				248.8	GAPI

Cement Bond Log Calibration Report

Serial Number: 275
Tool Model: Probe
Performed: Thu Apr 17 07:53:43 2014

Depth: 342.982 ft
Casing Diameter: 7 in

	3' Spacing	5' Spacing	
Signal Zero:	0.1	0.1	mV
Calibrated Amplitude:	62.1651	62.1651	mV
Reading at Signal Zero:	-0.0147461	-0.0143555	V
Reading in Free Pipe:	0.193188	0.182837	V
Gain:	298.484	314.744	
Offset:	4.50147	4.6183	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
STNDCH	22.00		1_CABLEHEAD 1"OD CABLE HEAD	0.83	1.00	3.00
CENT	21.17		CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	3.00	2.75	35.00
WVF3	13.50		CBL-Probe (275) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
WVF5	12.50					
CENT	9.25		CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	3.00	2.75	35.00
GR	6.25					
CCL	5.42					
GR	4.08		GR-Probe (275) Probe 2.75" 4 Channel Pulse	5.00	2.75	30.00
TEMP	0.17		TEMP-Titan (Tit1.3_02) Titan Temp 1.3875	1.25	1.39	10.00

Dataset: carrizo_bringelson_ranch_11_20_9_58.db: field/well/run1/pass4
Total Length: 22.00 ft
Total Weight: 173.00 lb
O.D.: 2.75 in

Company	CARRIZO OIL & GAS INC
Well	BRINGELSON 11-20-9-58
Field	WILDCAT
County	WELD
State	CO

HALLIBURTON

CEMENT BOND
LOG
SCALE: 5"=100'