HALLIBURTON

CEMENT BOND LOG

Company CARRIZO
Well BRINGELSON RANCH 3-33-9-58
Field
County WELD State COLORADO

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Well BRINGELSON RANCH 3-33-9-58
Field
County WELD State COLORADO

API No.: Serv #: Other Services
Location: SHL 115' FLE 160'FNL
N/A
Sec: 33 Twp: N9 Rge:

Permanent Datum GL Elevation 4840
Log Measured From KB , 17 Ft. above perm. datum
Drilling Measured From KB

Elevation
K.B. 4857
D.F. 4856
G.L. 4840

Date @ Time Logged	21-FEB-2013	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.33
Depth - Driller	10153	Fluid Level	SURFACE
Depth - Logger	5234	Cement Top Est. Logged	200
Bottom - Logged Interval	5230	Equipment / Location	11874896 /
Top - Log Interval	130	Recorded by	JOSHUA MCDANIEL
Max. Recorded Temp.	113	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	O	5942

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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 @ 5144'
NO FREE PIPE BELOW 500'
ESTIMATED TOP OF CEMENT 200'

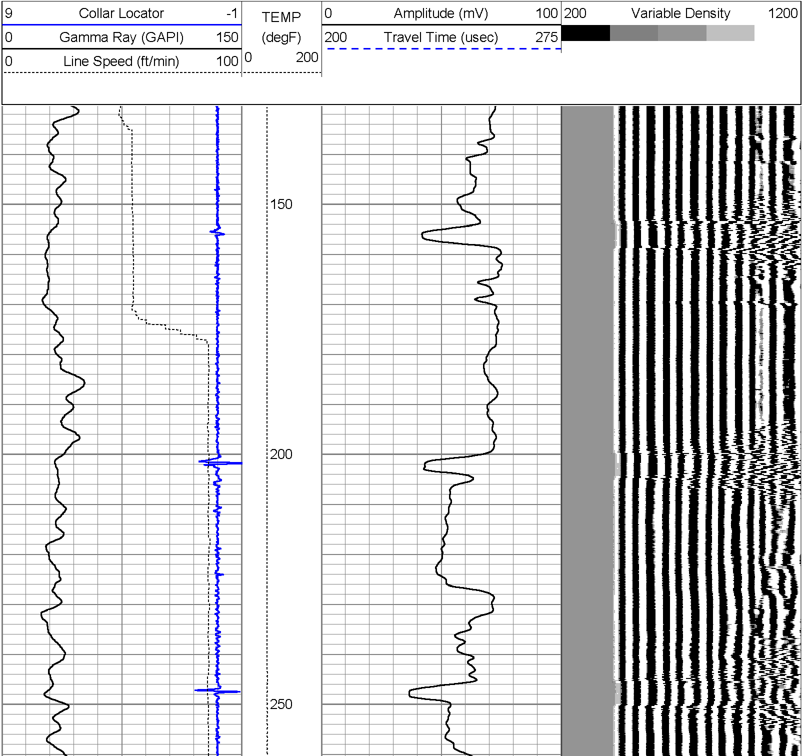
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES!
YOUR CREW TODAY: JOSHUA MCDANIEL, NOLAN RADFORD, TERRENCE ERNESTI, DEVIN DE

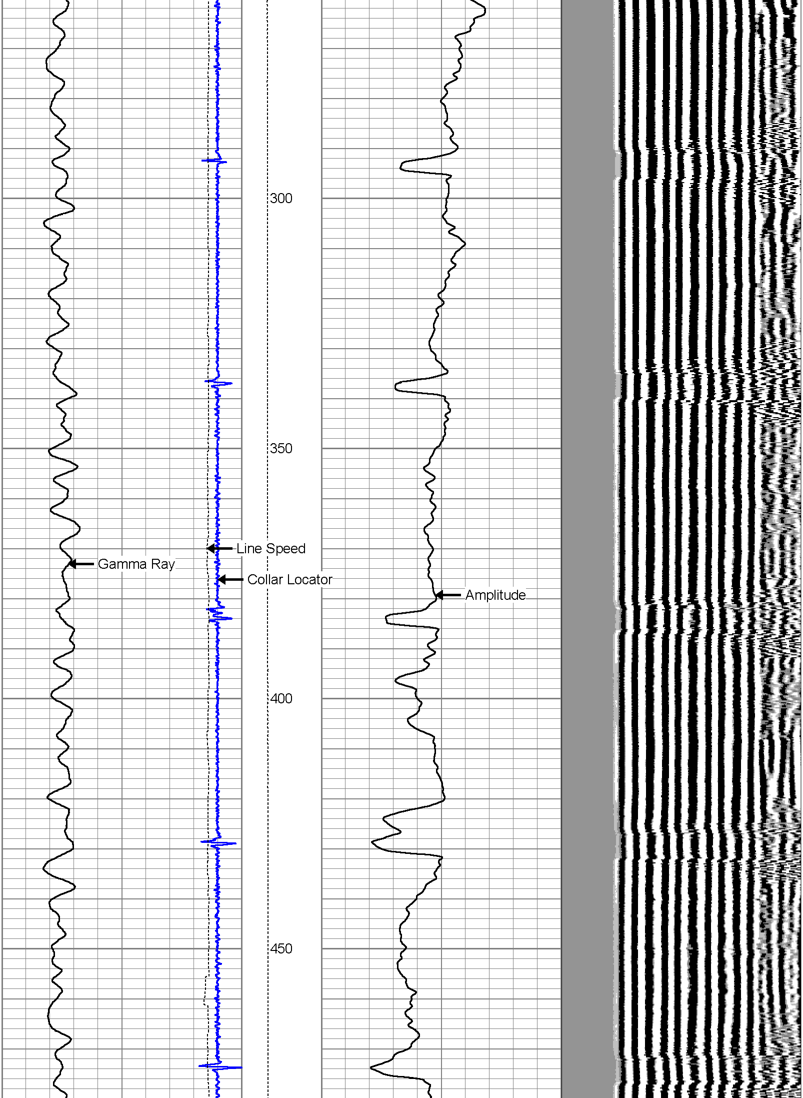
HALLIBURTON

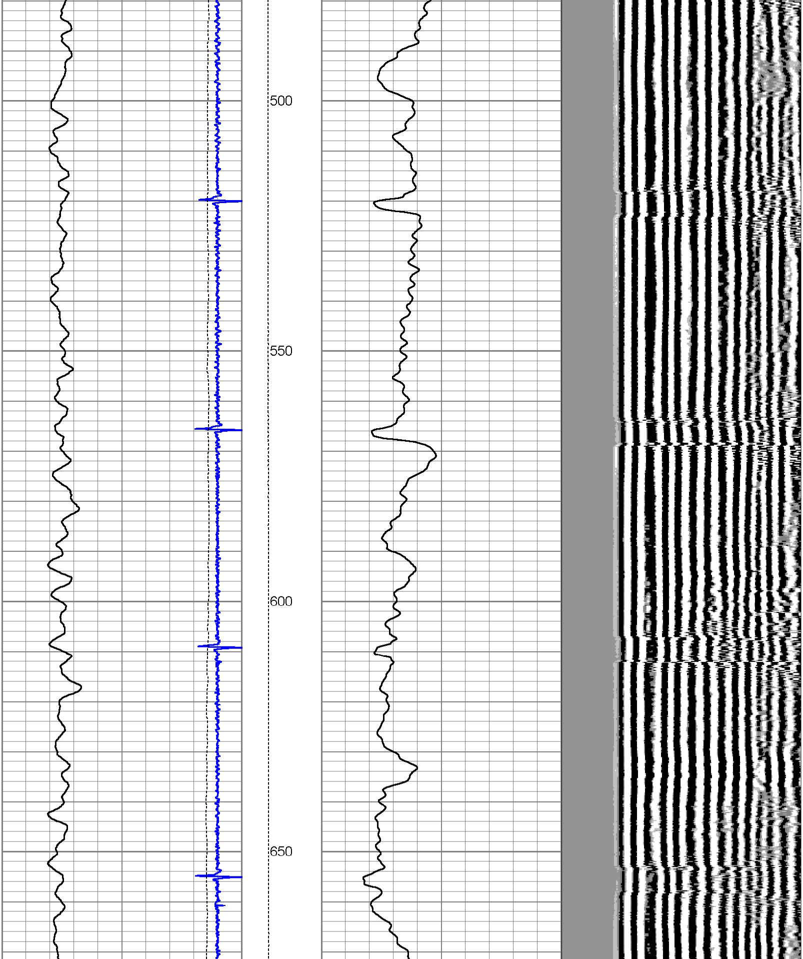
MAIN PASS 1000 PSI

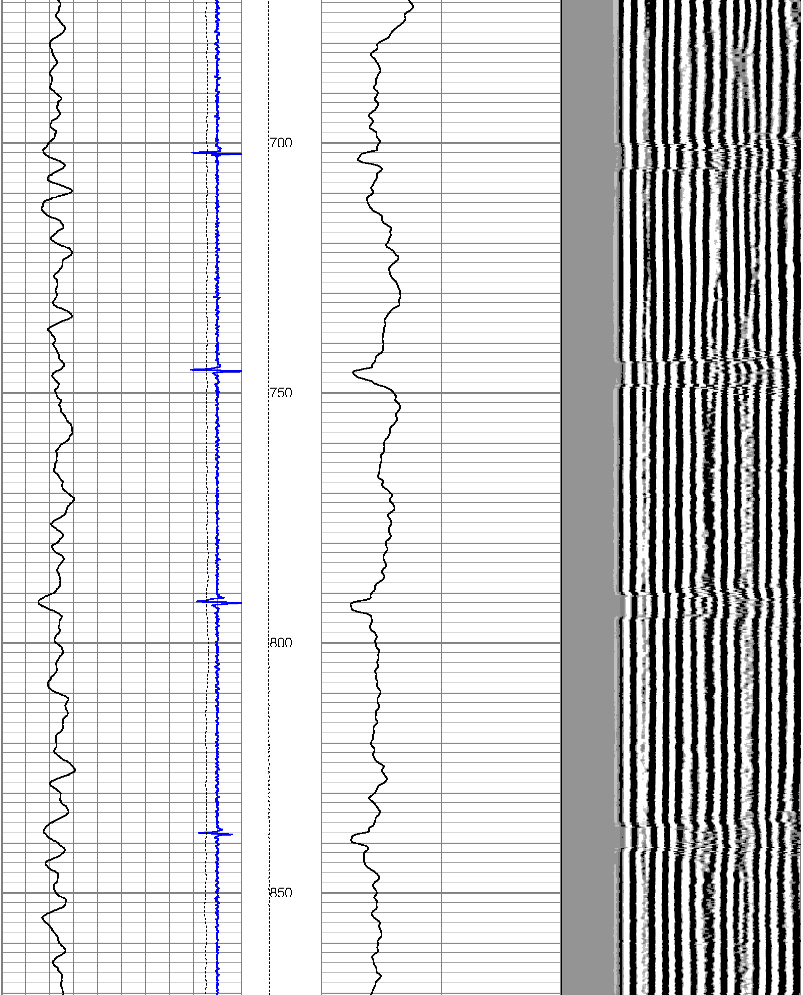
5"=100'

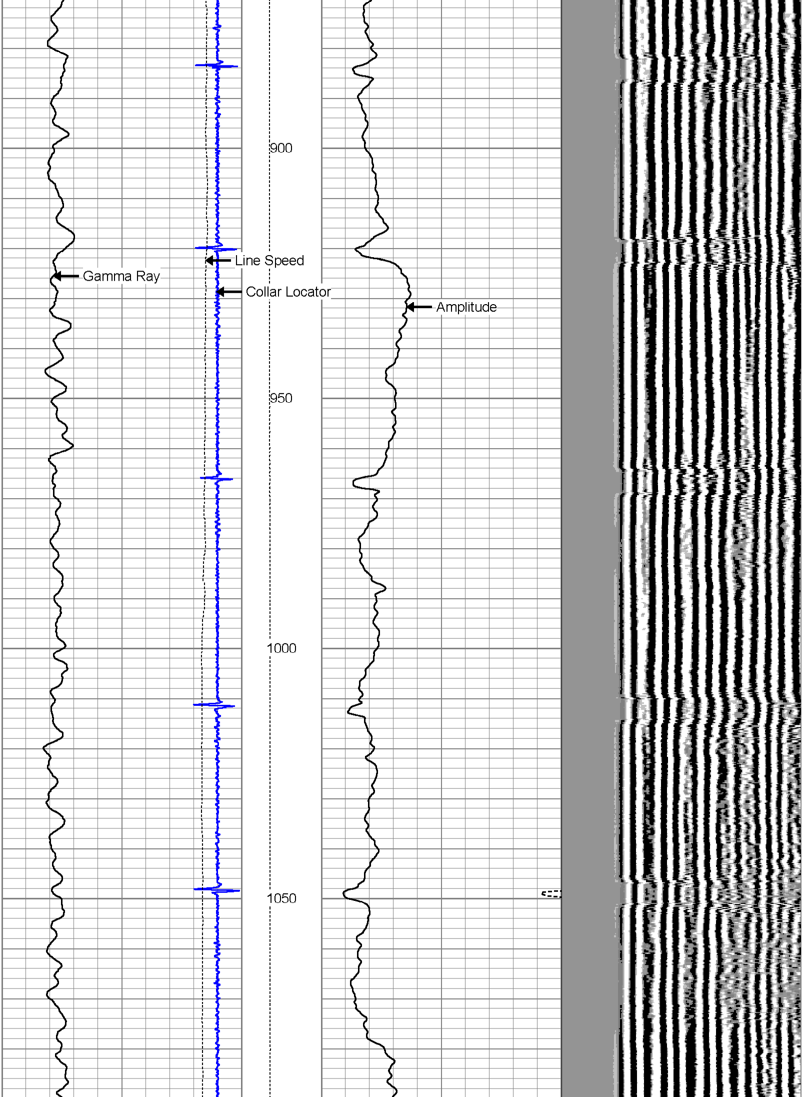
Database File:	carrizo bringelson ranch 3-33.db
Dataset Pathname:	CBL/pass5
Presentation Format:	cbl_dr
Dataset Creation:	Mon Jan 21 16:28:33 2013 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

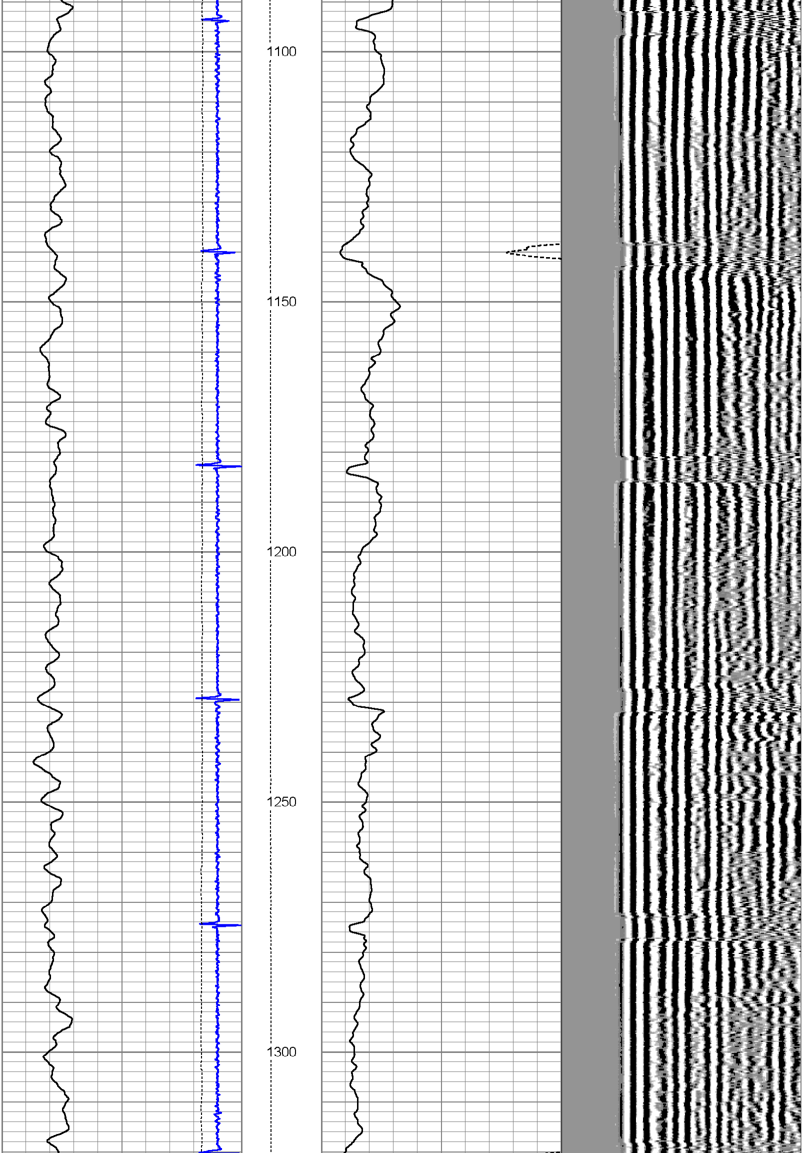


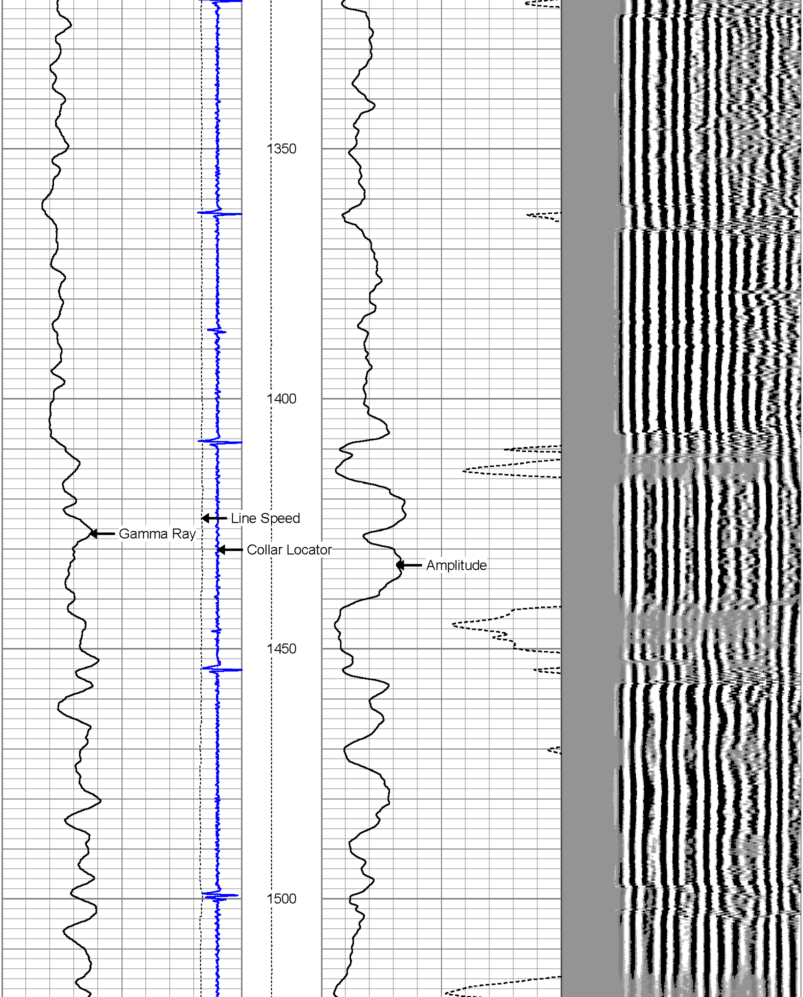


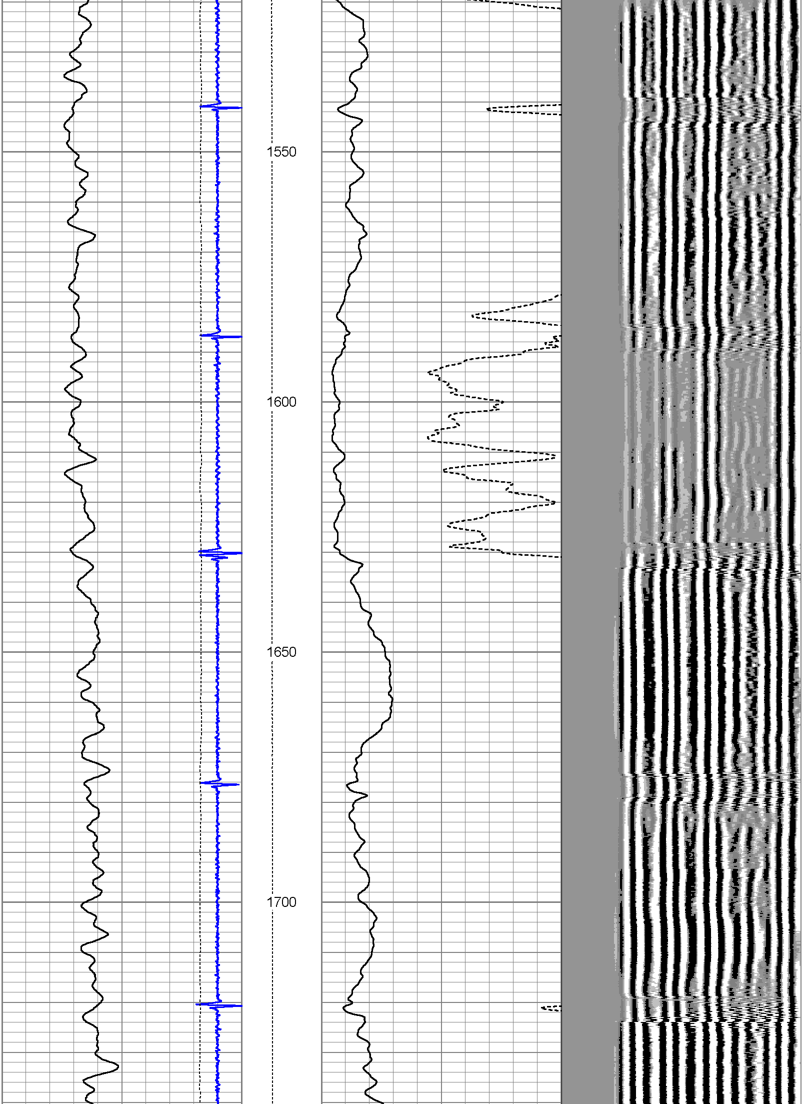


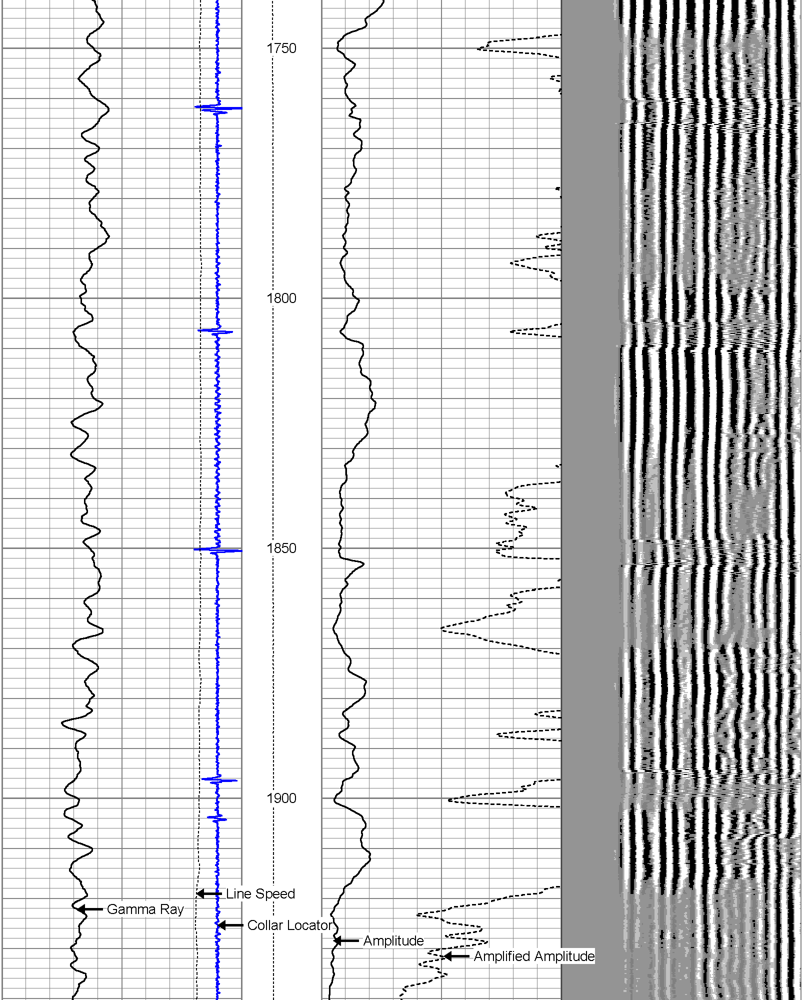


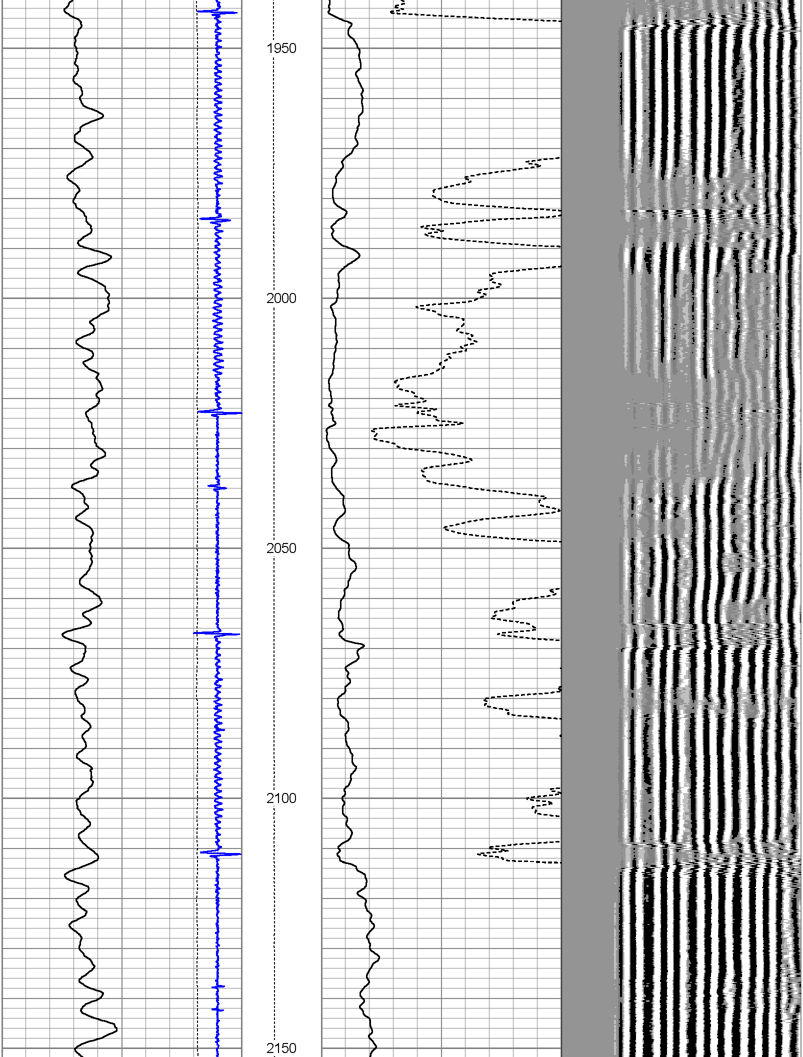


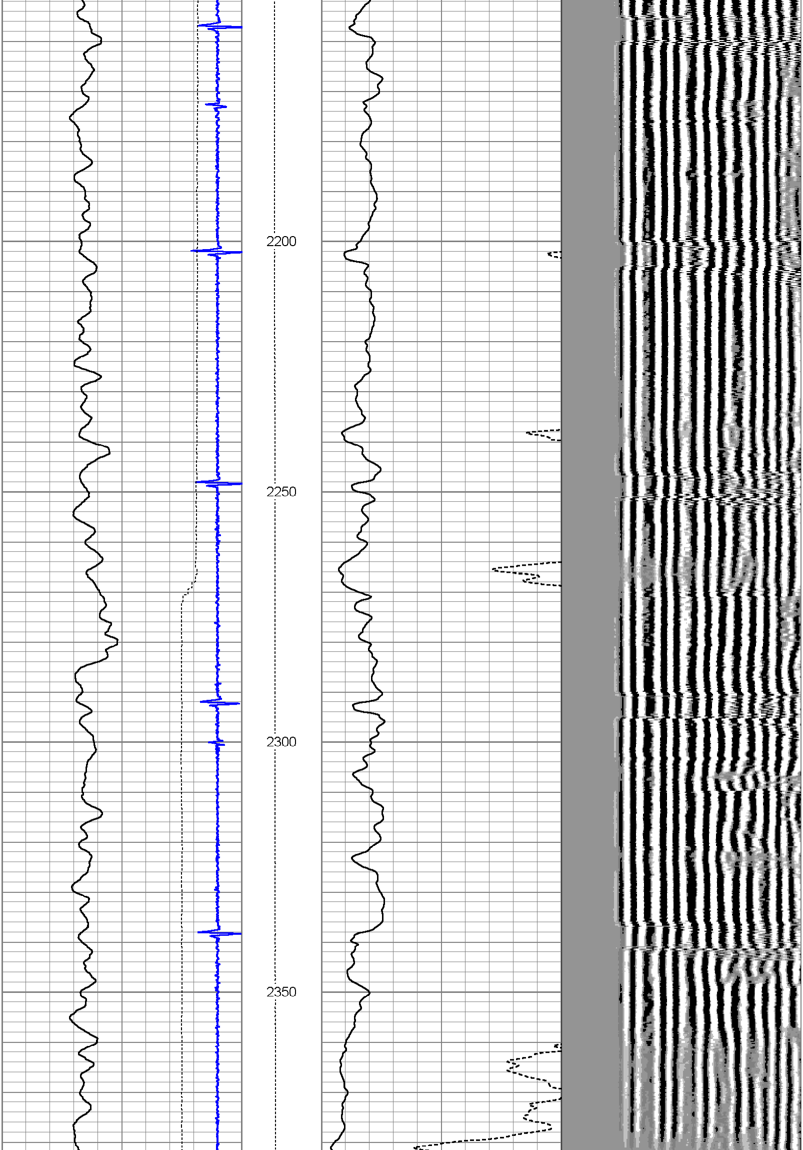


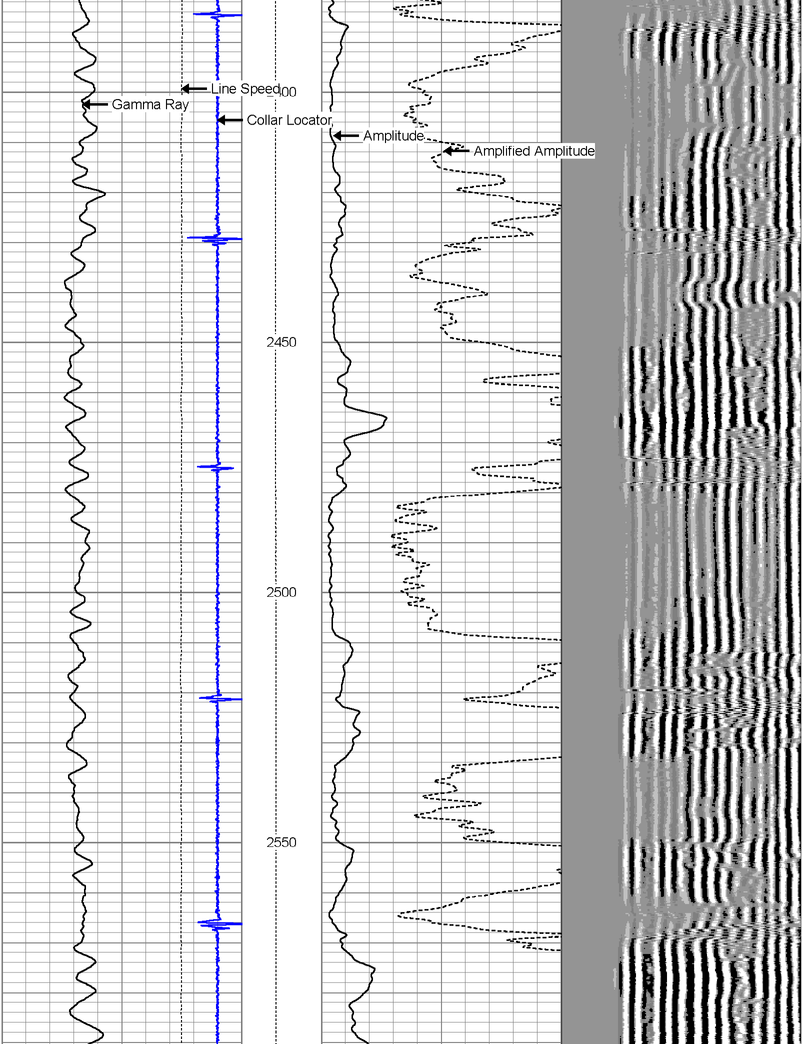


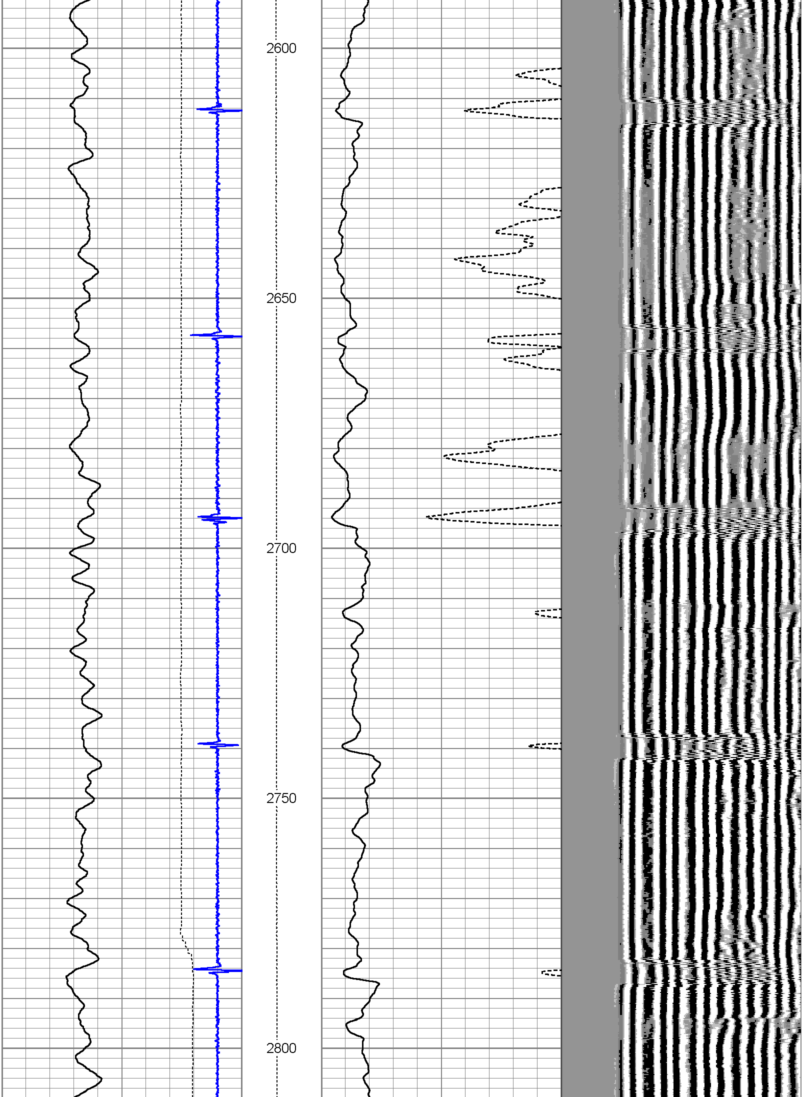


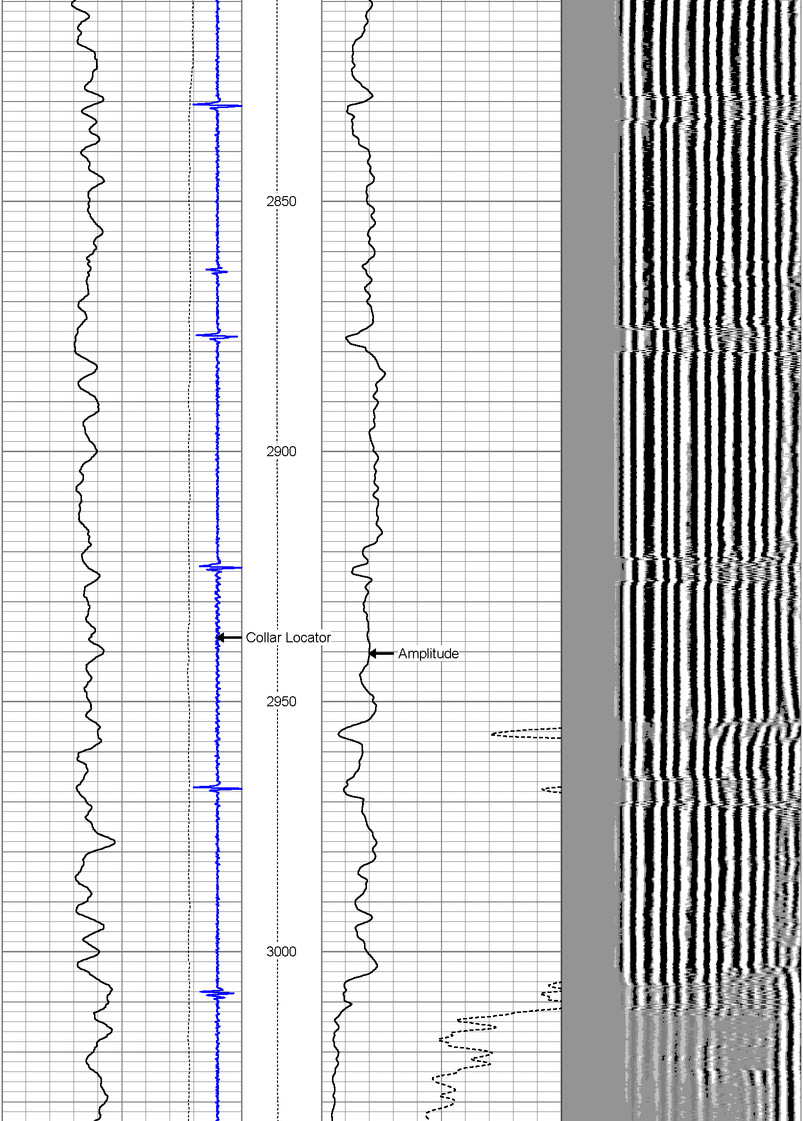


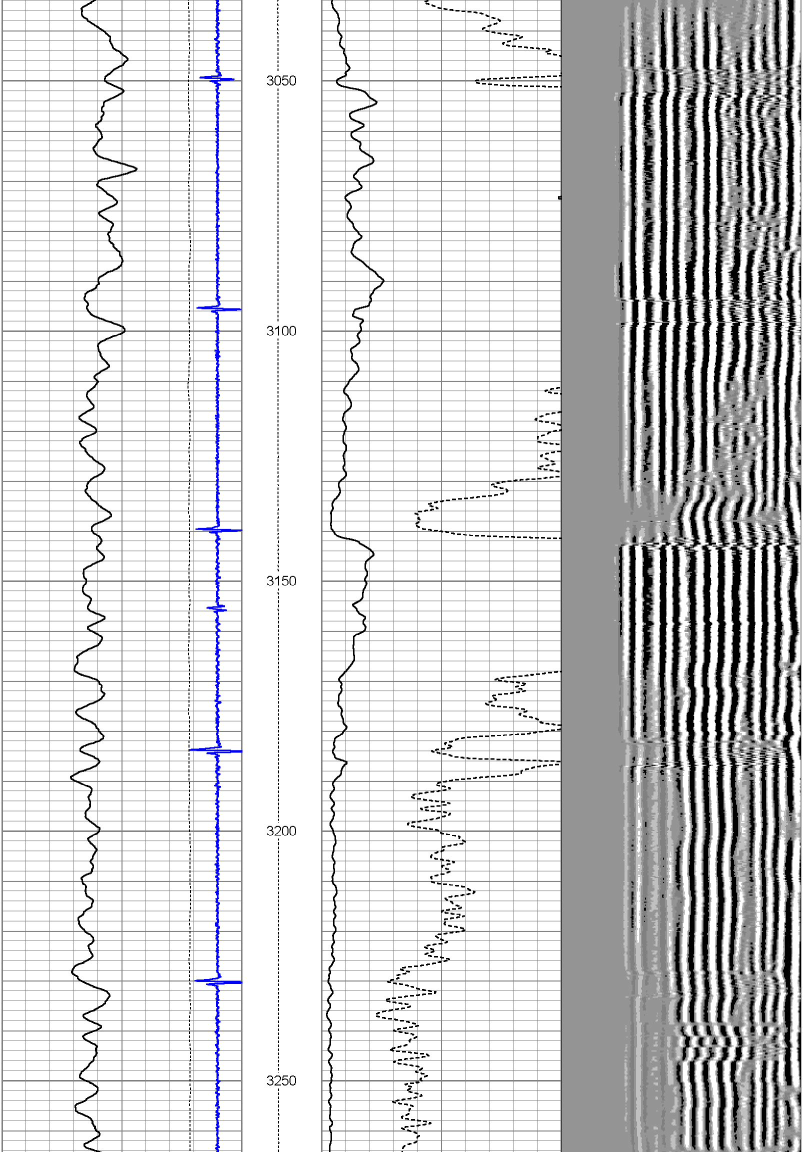


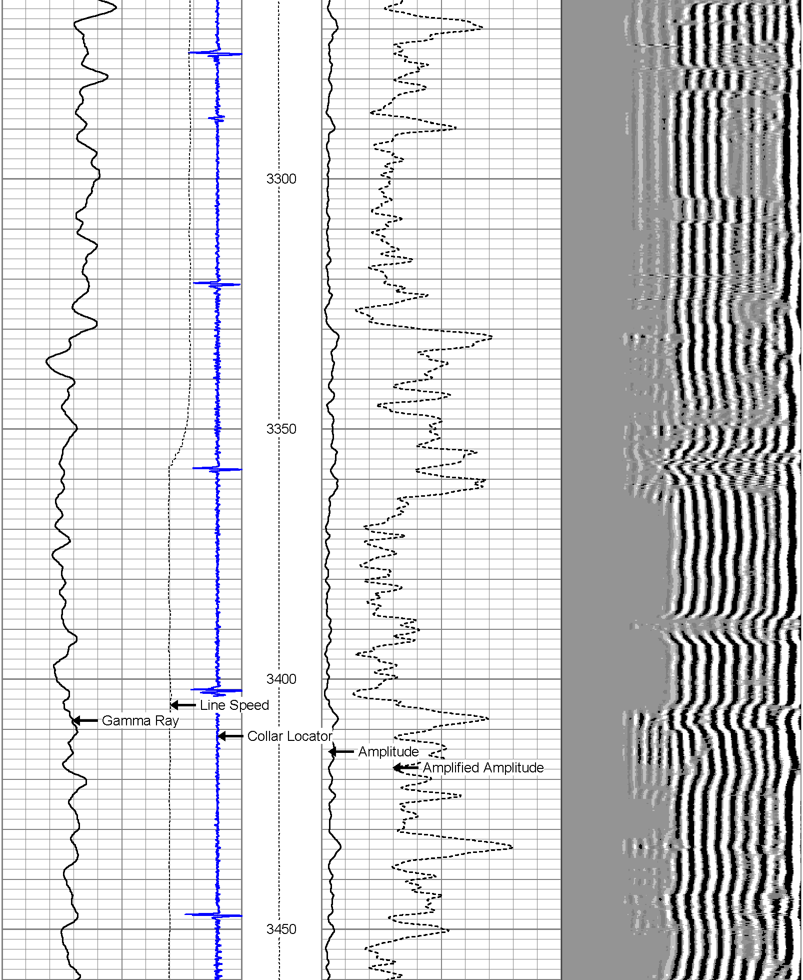


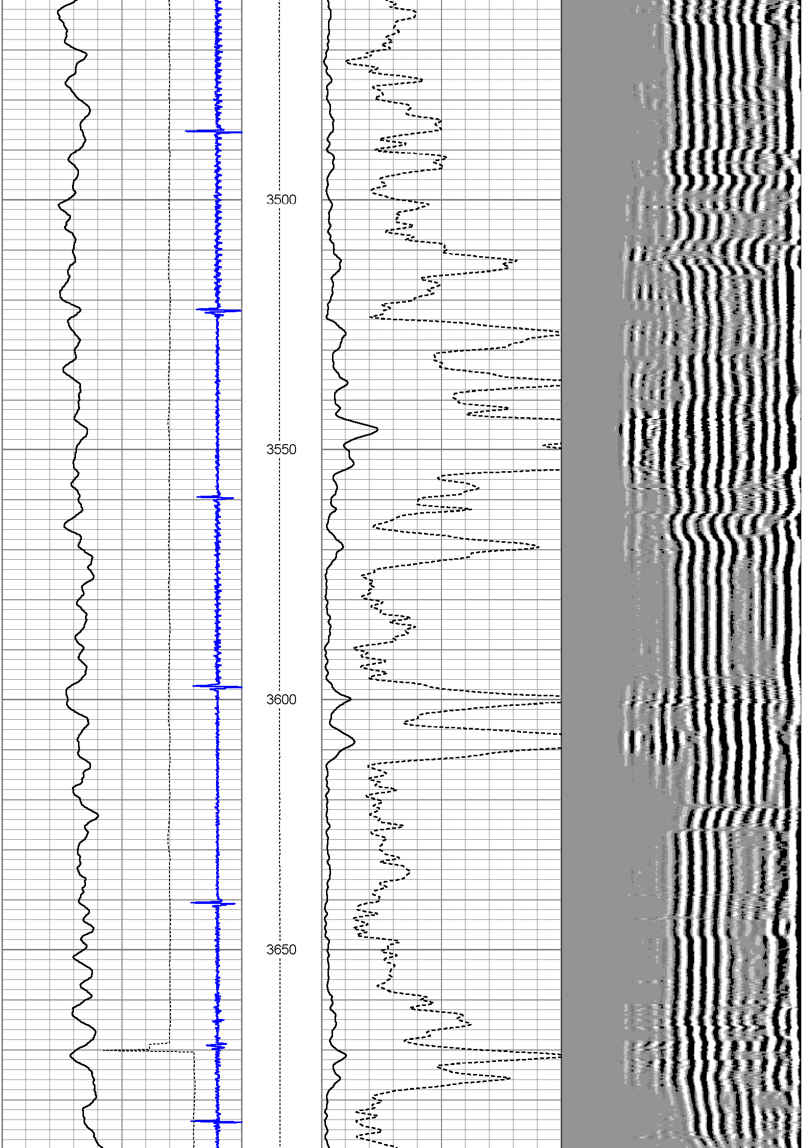


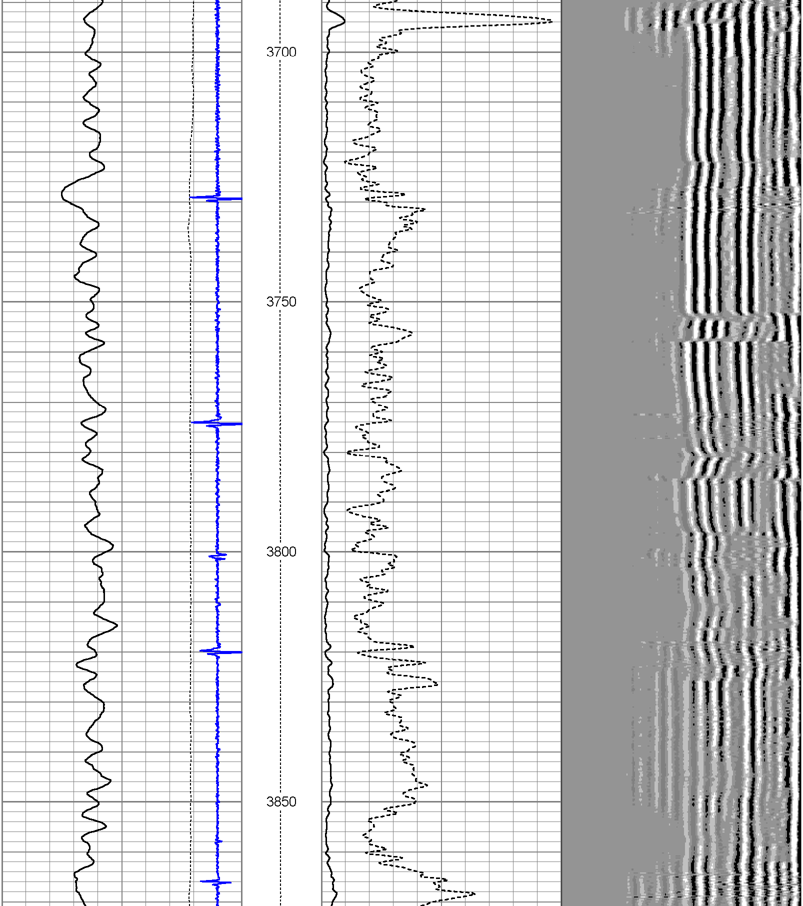


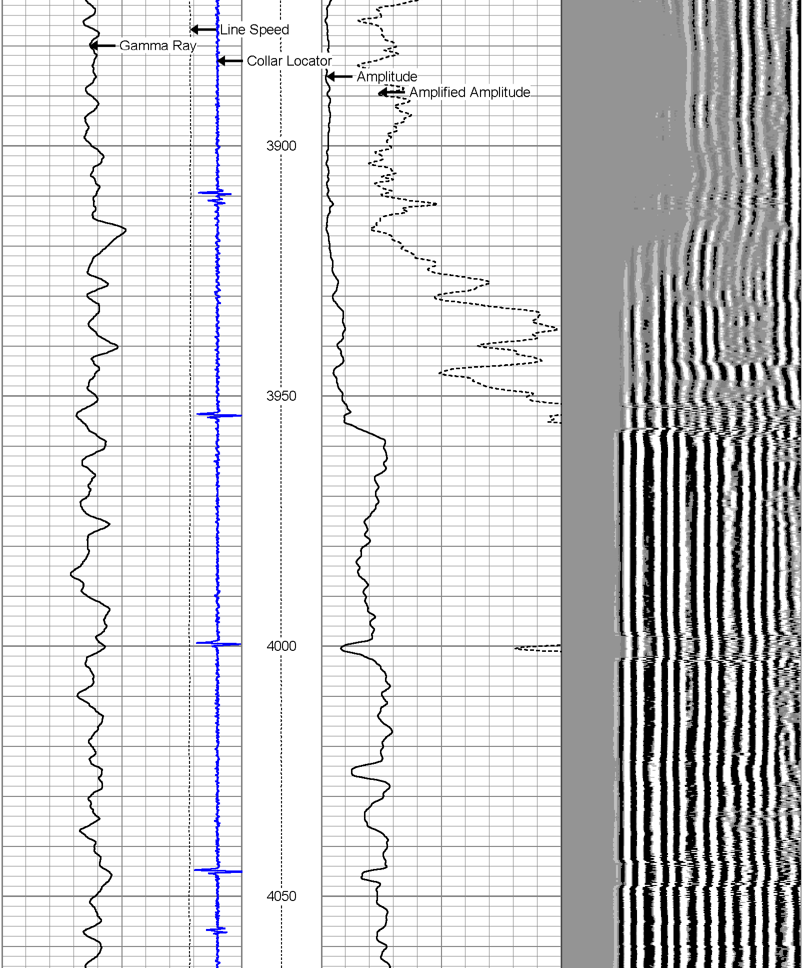


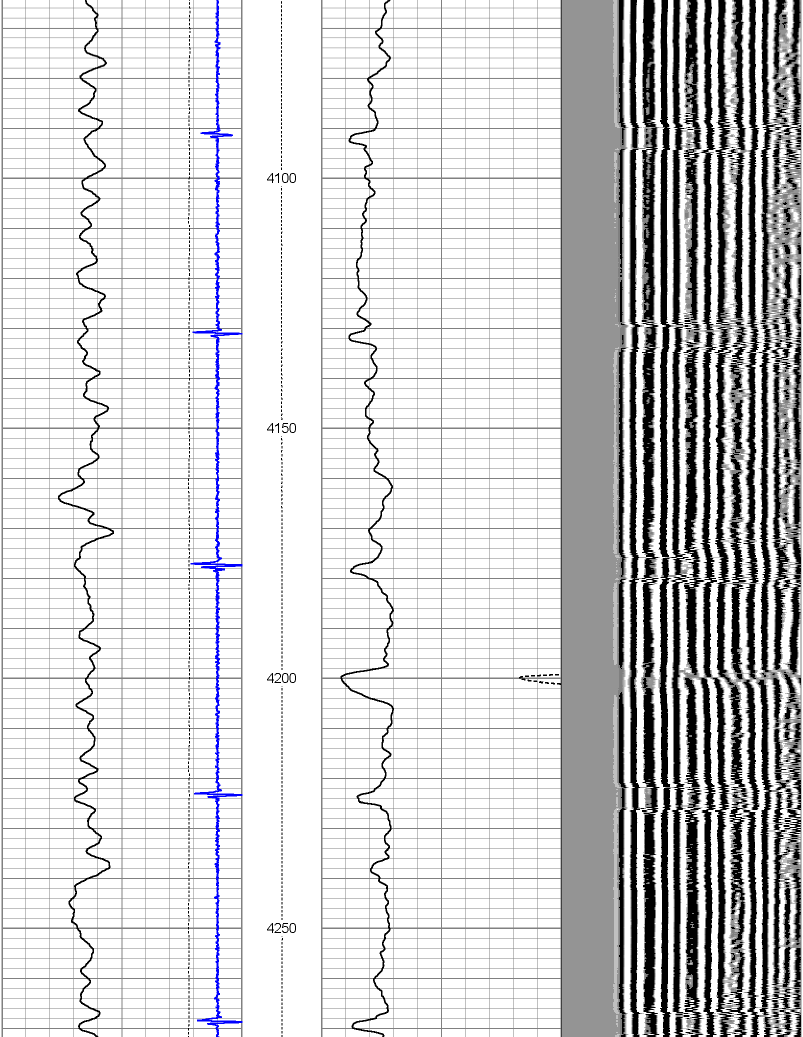


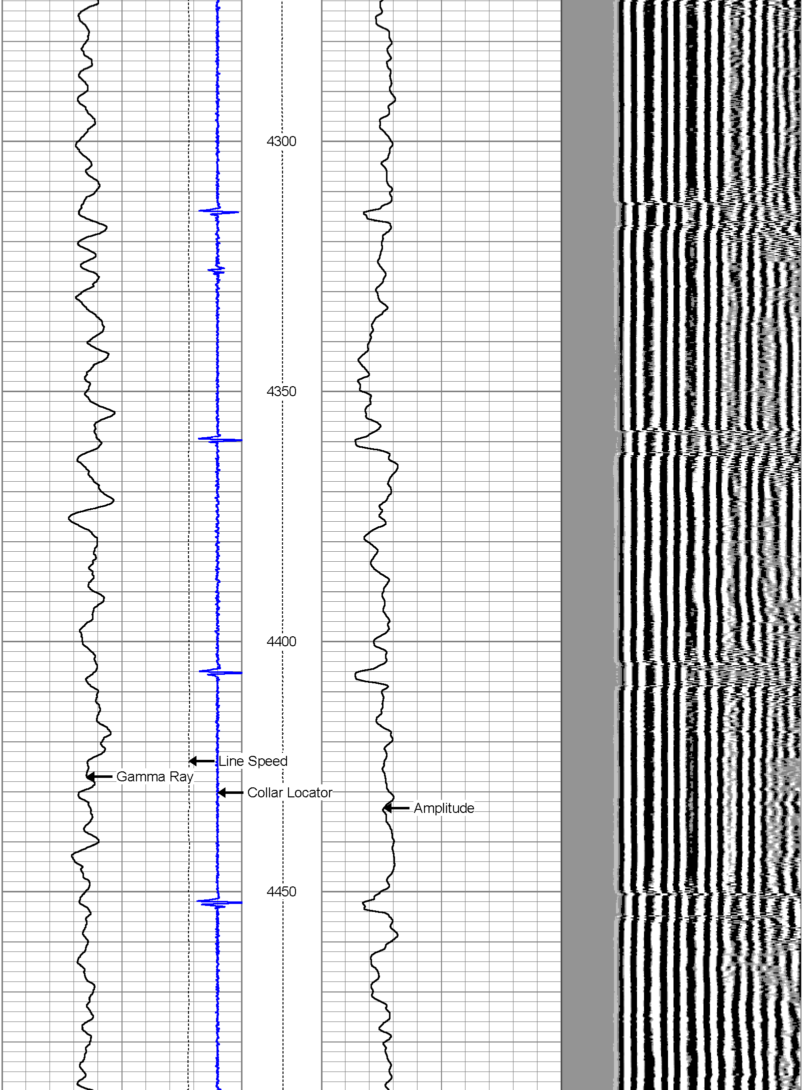


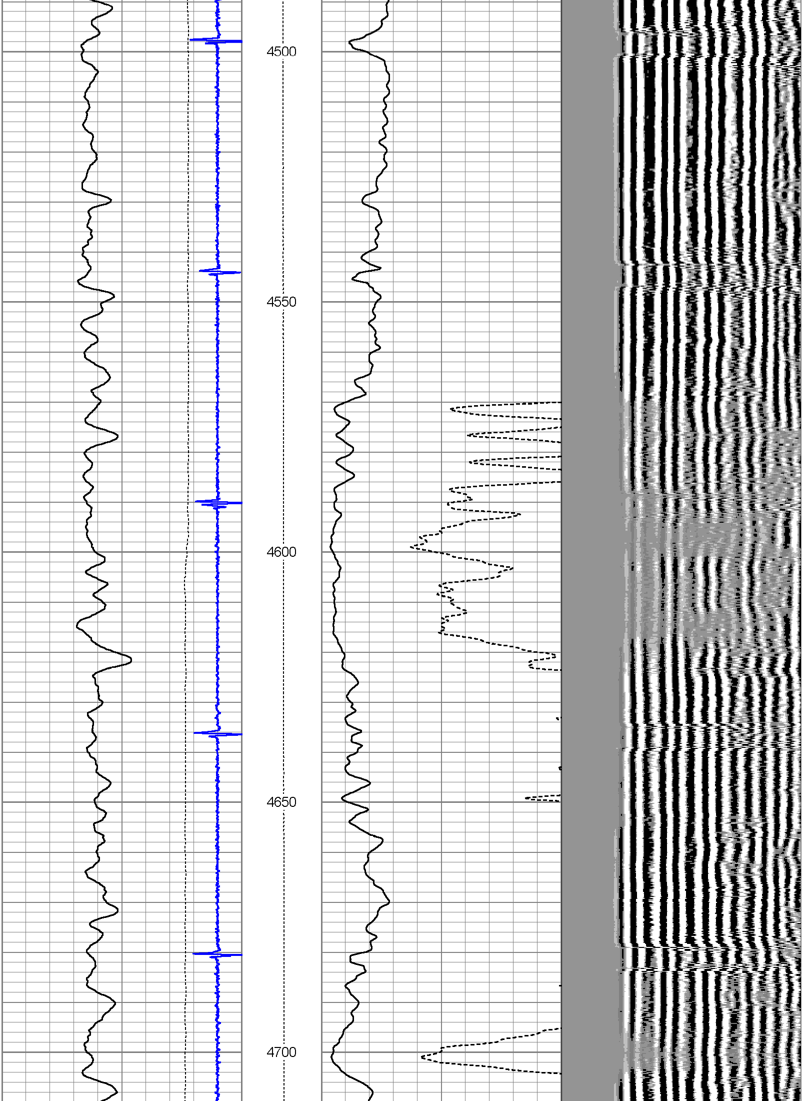


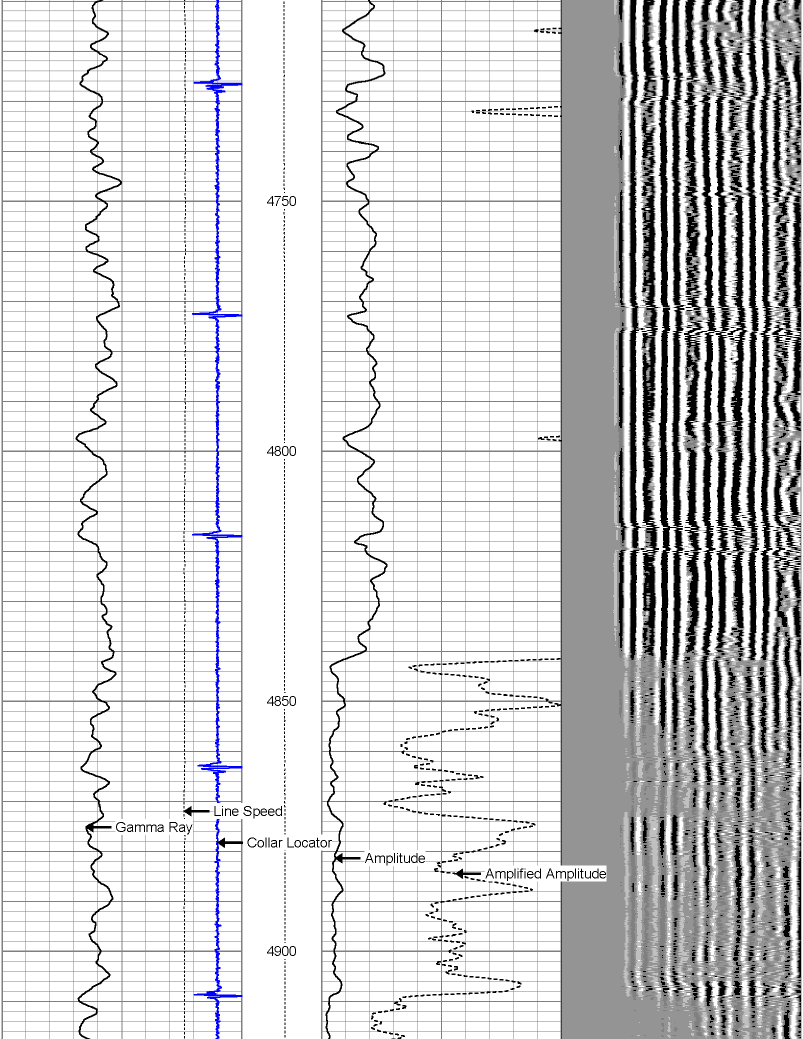


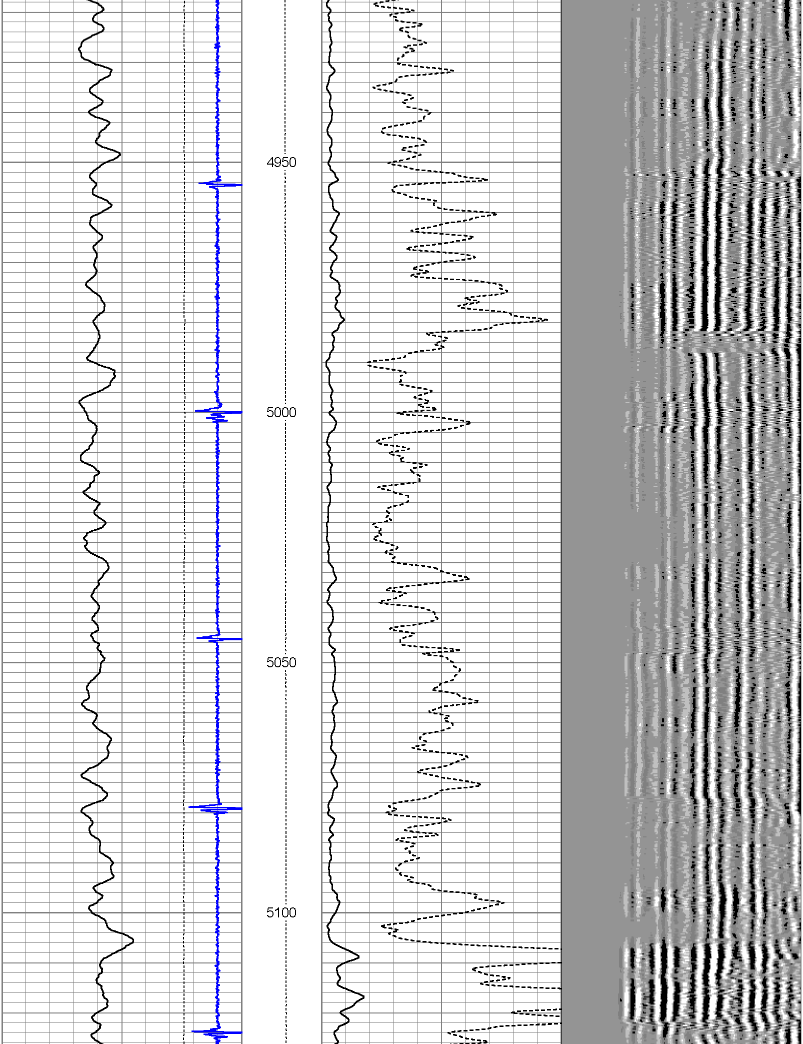


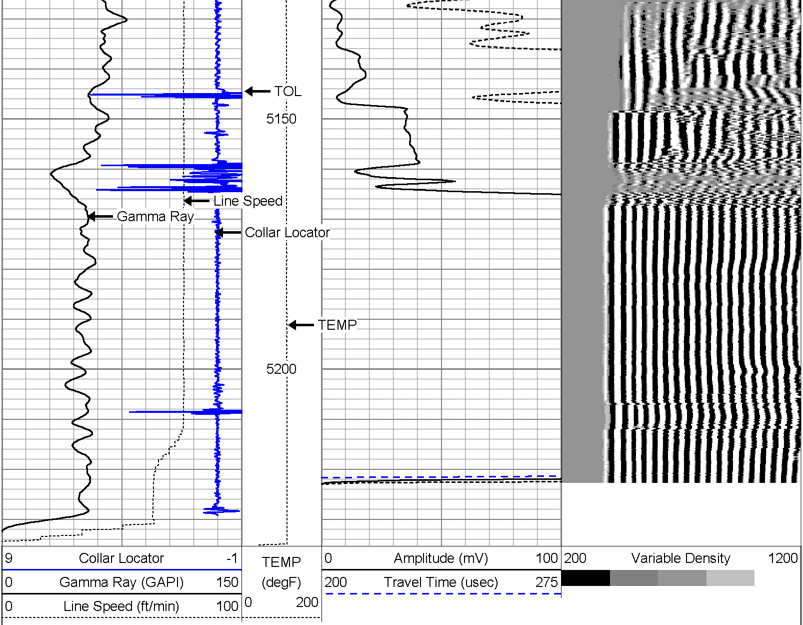












HALLIBURTON

MAIN PASS 1000 PSI

5"=100'

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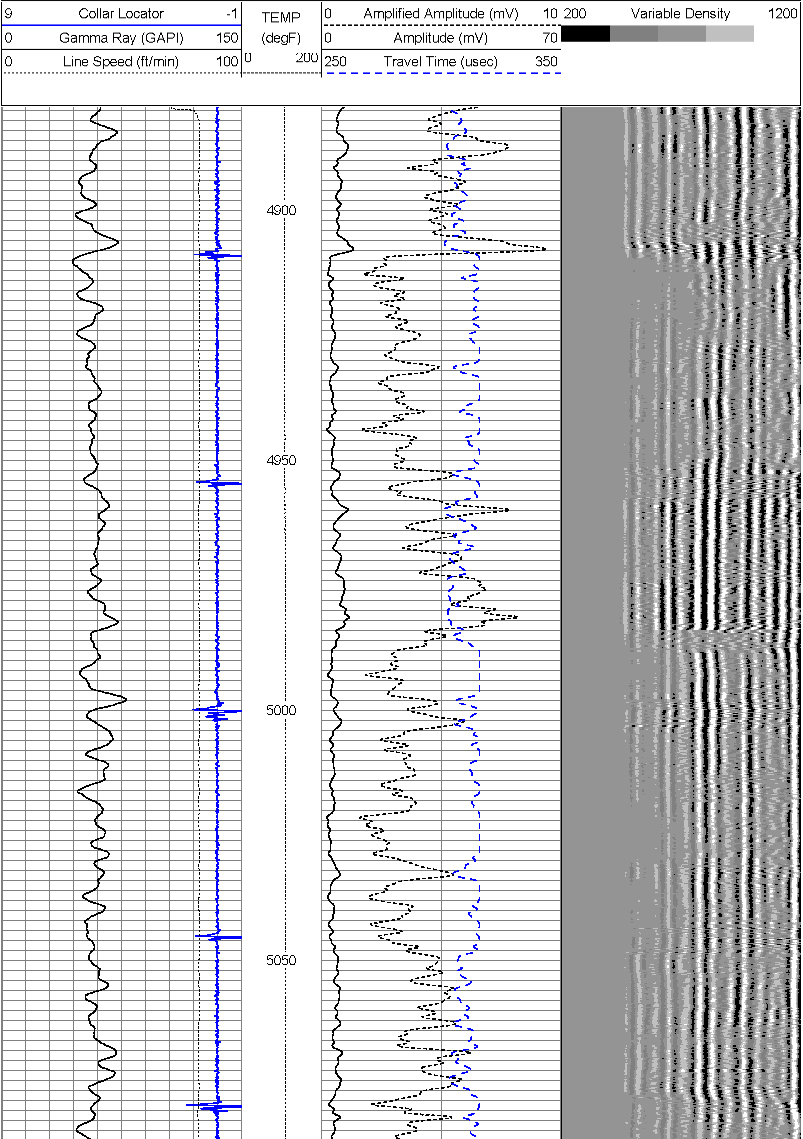
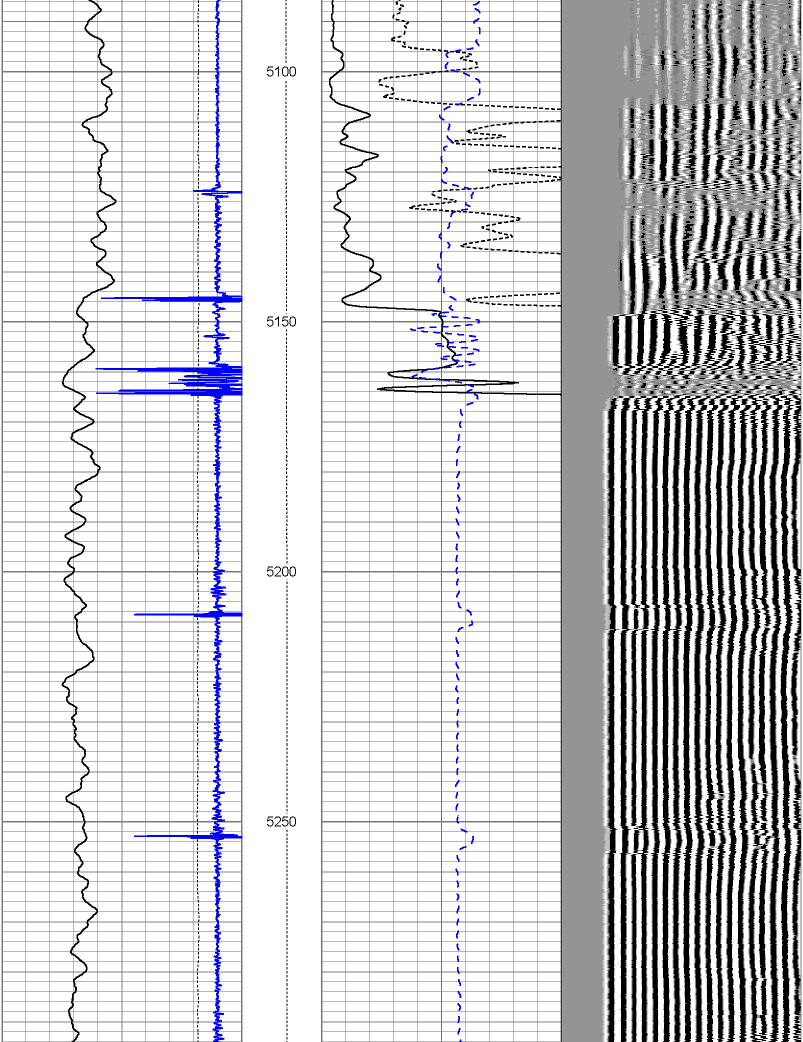
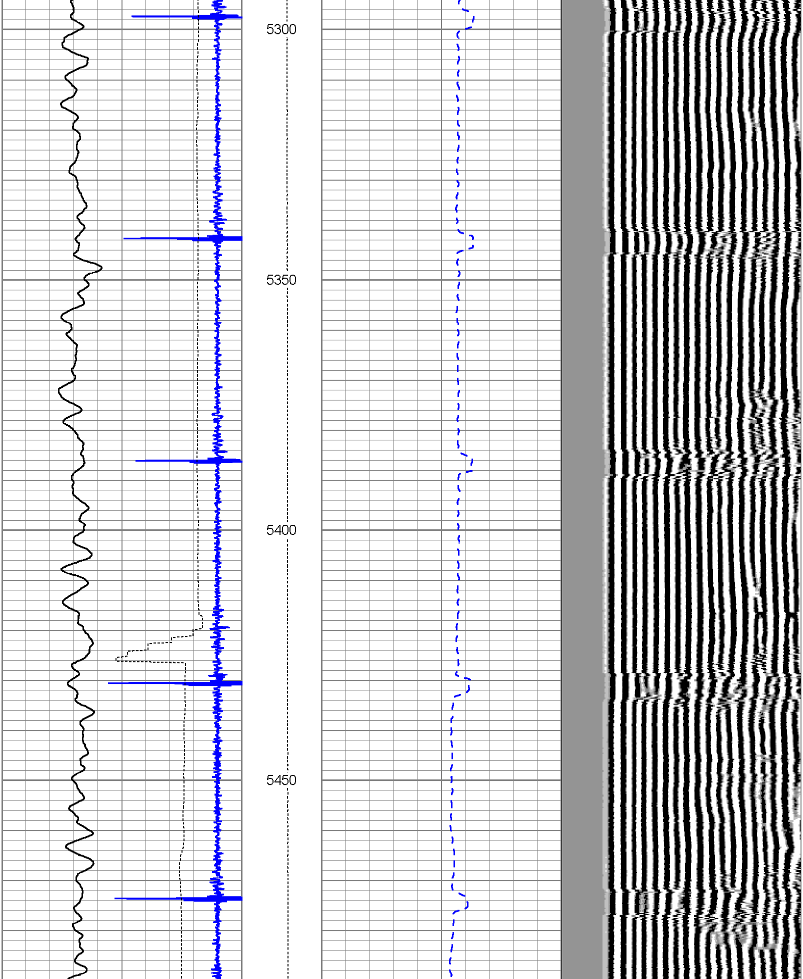
CORRELATION PASS

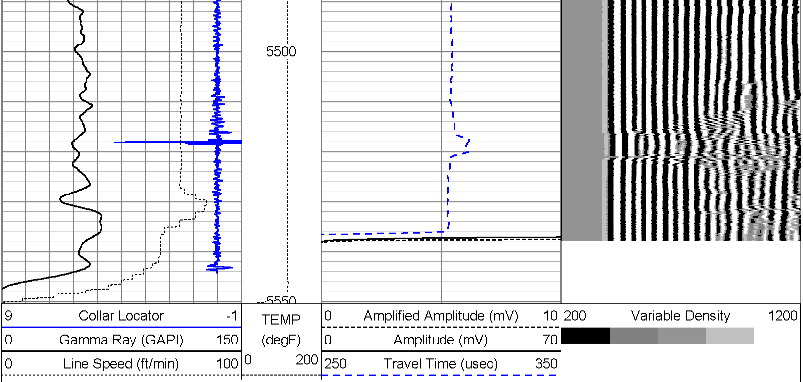
5"=100'

Database File:	carrizo bringelson ranch 3-33.db
Dataset Pathname:	CBL/pass3
Presentation Format:	cbl_dr
Dataset Creation:	Mon Jan 21 16:16:35 2013 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240









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CORRELATION PASS

5"=100'

Sensor Report

Database File: carrizo bringelson ranch 3-33.db
Dataset Pathname: CBL/pass5
Dataset Creation: Mon Jan 21 16:28:33 2013 by Log Halliburton Casedho

Sensor Name	Offset (ft)
WVF3	13.68
WVF5	12.68
CCL	6.04
GR	4.75
TEMP	0.17
Telemetry	0

Calibration Report

Database File: carrizo bringelson ranch 3-33.db
Dataset Pathname: CBL/pass5
Dataset Creation: Mon Jan 21 16:28:33 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

Sun Jan 20 14:01:17 2013

	Counts/Sec.	Gain	Offset	Jig	Units
Background	79.8				cps
Calibrator	341.5				cps
		0.9211			GAPI/cps

PRIMARY VERIFICATION

Sun Jan 20 14:05:43 2013

	Counts/Sec.	Gain	Offset	Jig	Units
Background	71.2				cps
Calibrator	314.6				cps
Difference				243.4	GAPI

BEFORE SURVEY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Cement Bond Log Calibration Report

Serial Number: 275

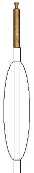
Tool Model: Probe

Performed: Mon Jan 21 13:43:55 2013

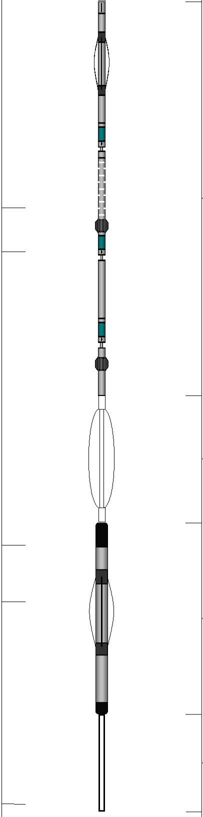
Depth: 504.927 ft

Casing Diameter: 7 in

	3' Spacing	5' Spacing	
Signal Zero:	0.15	0.15	mV
Calibrated Amplitude:	65	65	mV
Reading at Signal Zero:	0.0048584	0.00727539	V
Reading in Free Pipe:	0.670557	0.630078	V
Gain:	97.4165	104.126	
Offset:	-0.323288	-0.607558	

Sensor	Offset (ft)	Schematic	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	13.68
WVF5	12.68
CCL	6.04
GR	4.75
TEMP	0.17



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
GR-Probe (275) Probe 2.75" 4 Channel Pulse	4.33	2.75	30.00
TEMP-Titan (Tit1.3_02) Titan Temp 1.3875	2.21	1.39	10.00

Dataset:	carrizo bringelson ranch 3-33.db: field/well/CBL/pass5
Total Length:	22.25 ft
Total Weight:	173.00 lb
O.D.	2.75 in

Company	CARRIZO
Well	BRINGELSON RANCH 3-33-9-58
Field	
County	WELD
State	COLORADO

HALLIBURTON

CEMENT BOND
LOG