CEMENT BOND LOG WITH GAMMA RAY/CCL

PIONEER
Pioneer Energy Services

Company BONANZA CREEK ENERGY
Well STATE PRONGHORN 43-13-29HNB
Field WATTENBERG
County WELD State CO

Company **BONANZA CREEK ENERGY**
Well **STATE PRONGHORN 43-13-29HNB**
Field **WATTENBERG**
County **WELD** State **CO**

Location: API # : 05-123-40060
SHL: 1240' FSL & 210' FEL SESE
SEC 29 TWP 5N RGE 61W

Other Services
NONE

			Elevation
Permanent Datum	GL	Elevation 4602	K.B. 4624
Log Measured From	KB		D.F. 4623
Drilling Measured From	KB		G.L. 4602

Date of Service	FEBRUARY 27, 2015
Run Number	1
Depth Driller or PBTD	N/A
Depth Logger	6249'
Bottom Log Interval	6249'
Top Log Interval	SURFACE
Open Hole Size	8.75"
Type Fluid	WATER
Fluid Level	52'
Fluid Density	N/A
Max. Recorded Temperature	N/A
Max. Wellhead Pressure	0 PSI
Wellhead Connection	NA
Estimated Cement Top	SEE LOG
Unit Number	P-36
Wireline Size	7/16"
Location	FT. MORGAN
Recorded By	CLINT CHRISTENSEN
Witnessed By	DARYL BARBEROUSSE

	Size	Wt/Ft	Top	Bottom
Tubing Record	N/A	N/A	N/A	N/A
Surface Casing	9.625"	36#	SURFACE	781'
Production Casing	7"	26#	SURFACE	6493'
Liner Record	N/A	N/A	6249'	N/A

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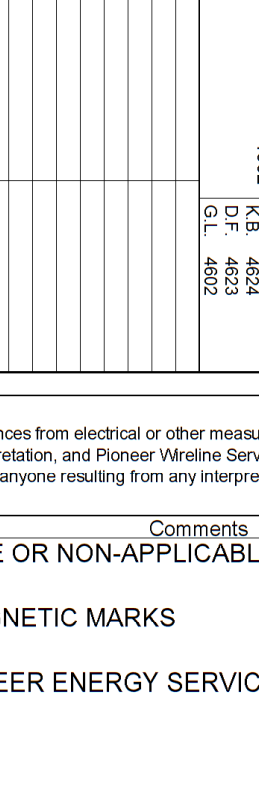
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
LOGGED UNDER 0 PSI
DEPTH CORRELATED TO MAGNETIC MARKS
PIONEER CRANE #20
THANK YOU FOR USING PIONEER ENERGY SERVICES
SO# 2-013960

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: CLINT CHRISTENSEN	PROBE RADII BOND	141168
Operator: MARCUS HOULMIERE	PROBE CCL/GAMMA	51013
Operator: MIKE GARCIA		
Operator: -		



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CHD-Titan (1) Titan Type II Cable Head	1.03	1.44	5.00
		CENT #2 -A (1)	2.83	2.75	20.00
IntTemp	14.66				
TEMP	13.62				
WVF3FT	11.41	RBT-RBT-C3 (141168) Probe Radii Bond Tool with Digital Telemetry	9.33	2.75	90.00
WVFCAL	11.41				
WVFS1	11.41				
WVFS2	11.41				
WVFS3	11.41				
WVFS4	11.41				
WVFS5	11.41				
WVFS6	11.41				
WVFS7	11.41				
WVFS8	11.41				
WVF5FT	10.41				
		CENT-A (1)	2.83	2.75	20.00
CCL	3.92				
		GR-probe 2.75 (51013) proble Digital CCL Gamma	4.33	2.75	100.00
GR	1.13				

Dataset: 13960.db: field/well/run1/pass3.1
Total Length: 20.35 ft
Total Weight: 235.00 lb
O.D. 2.75 in

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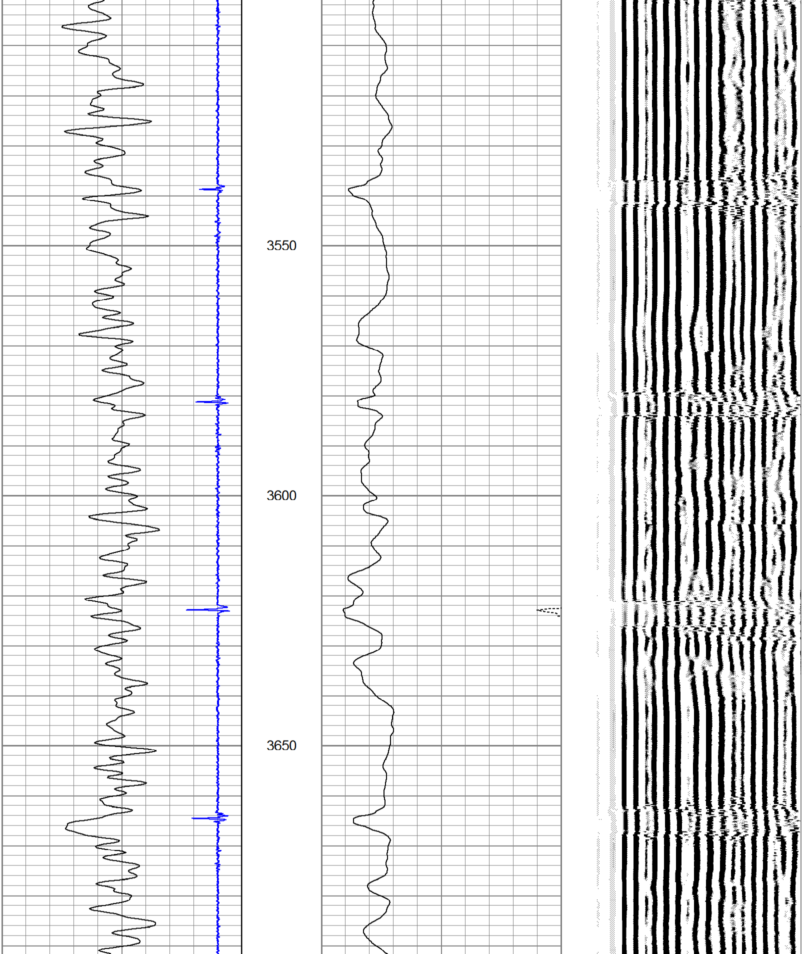
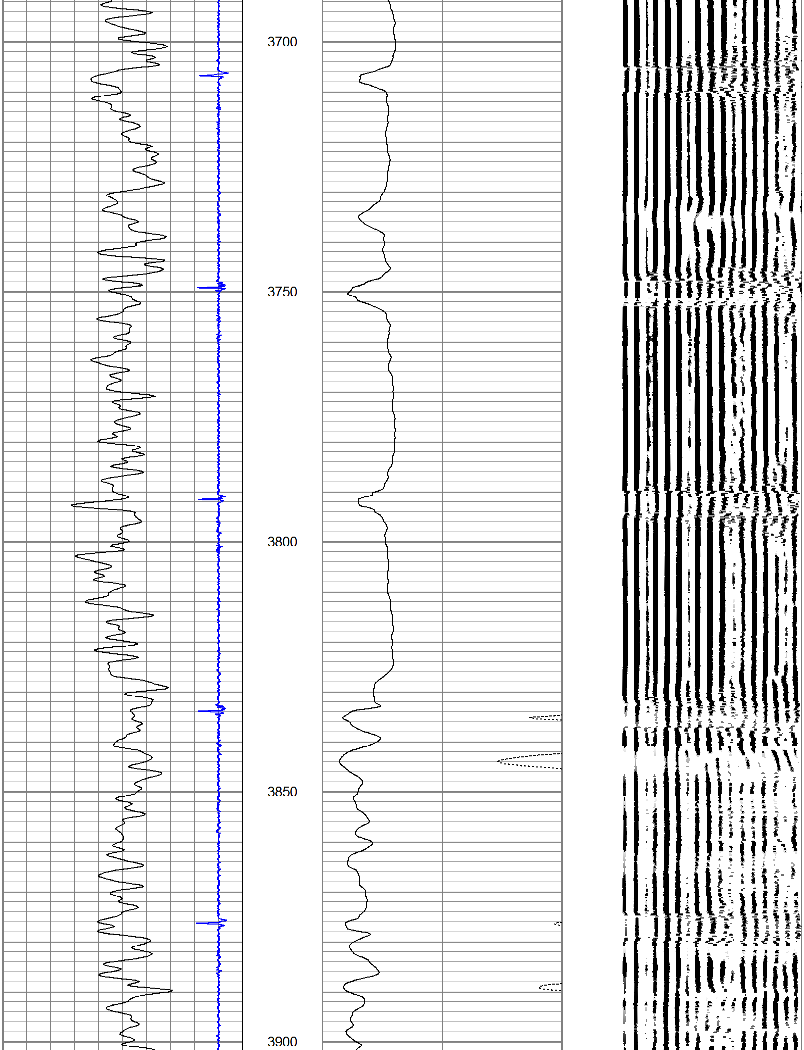
MAIN PASS

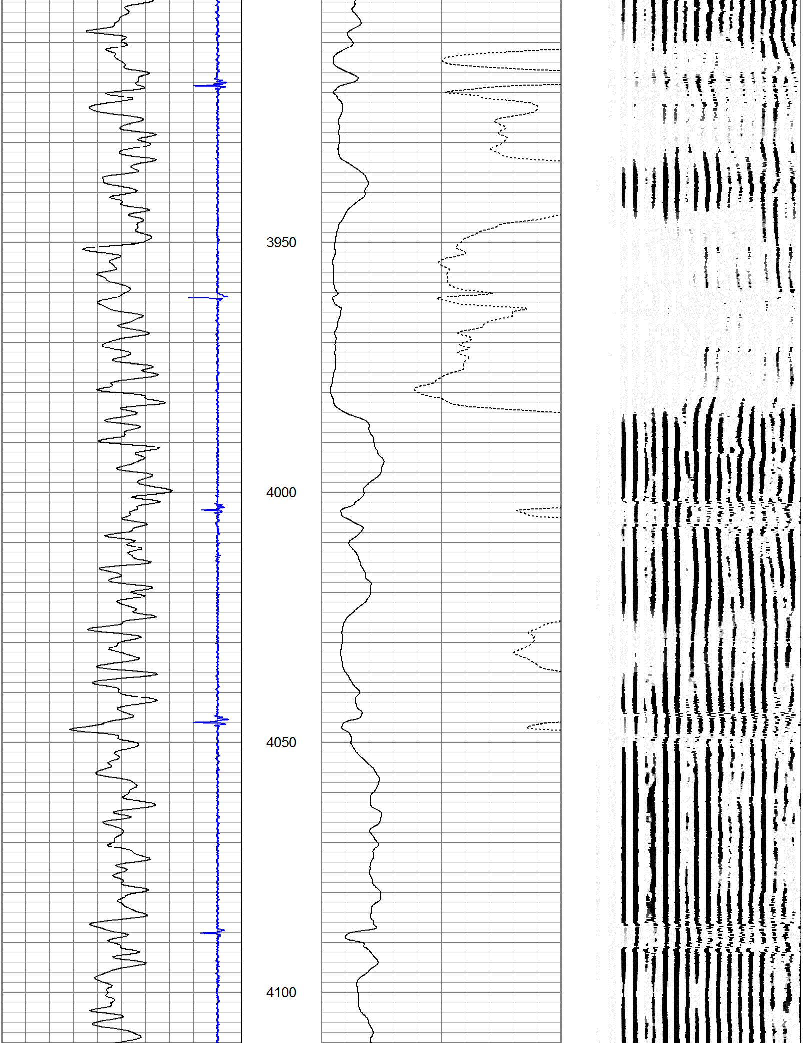
LOGGED UNDER 0 PSI

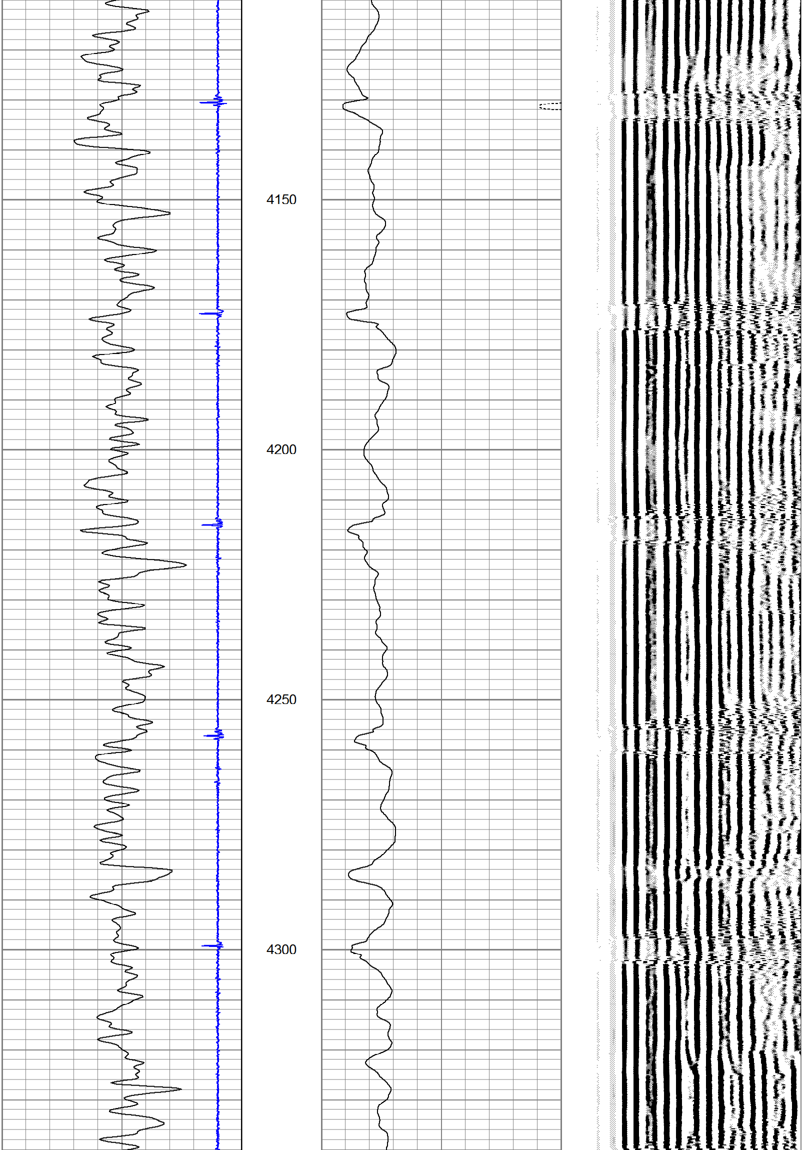
Database File:	13960.db
Dataset Pathname:	FINAL
Presentation Format:	cbl
Dataset Creation:	Fri Feb 27 22:12:42 2015
Charted by:	Depth in Feet scaled 1:240

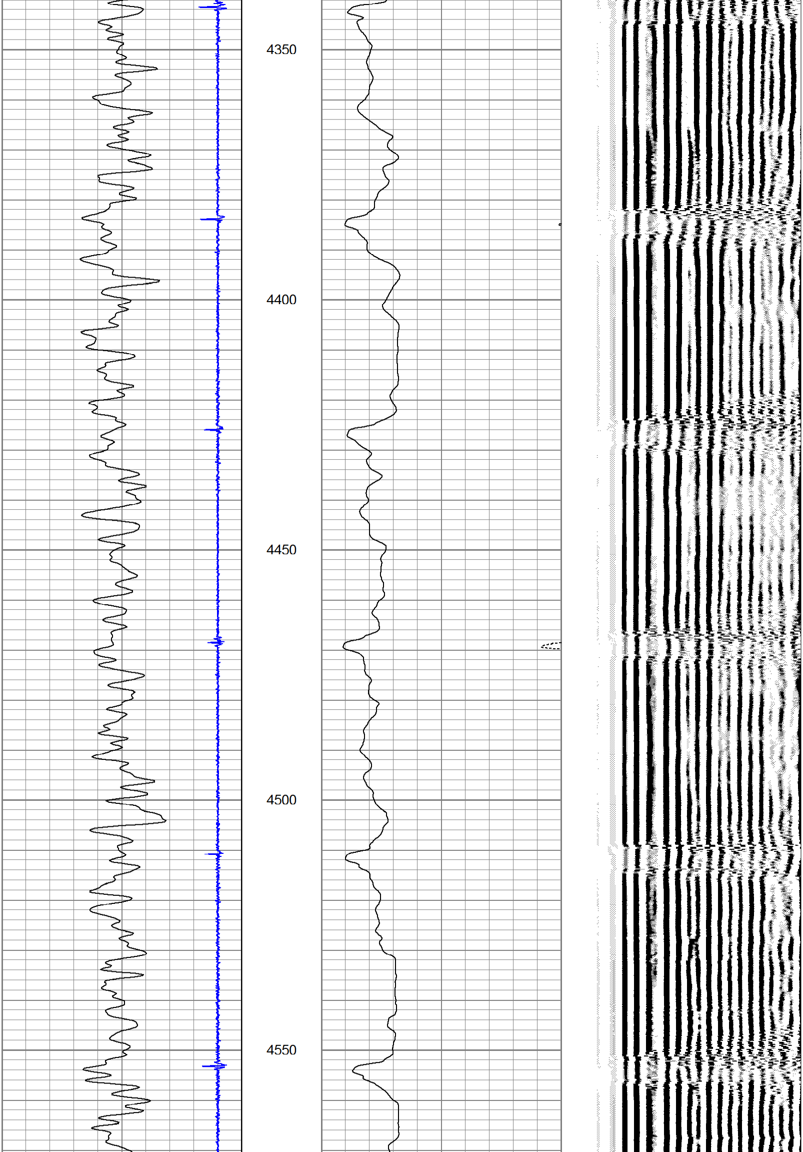
-9	Collar Locator	1	0	AMP AMPLITUDE (mV)	10	200	VDL	1200
0	Gamma Ray (GAPI)	200	0	AMPLITUDE (mV)	100			

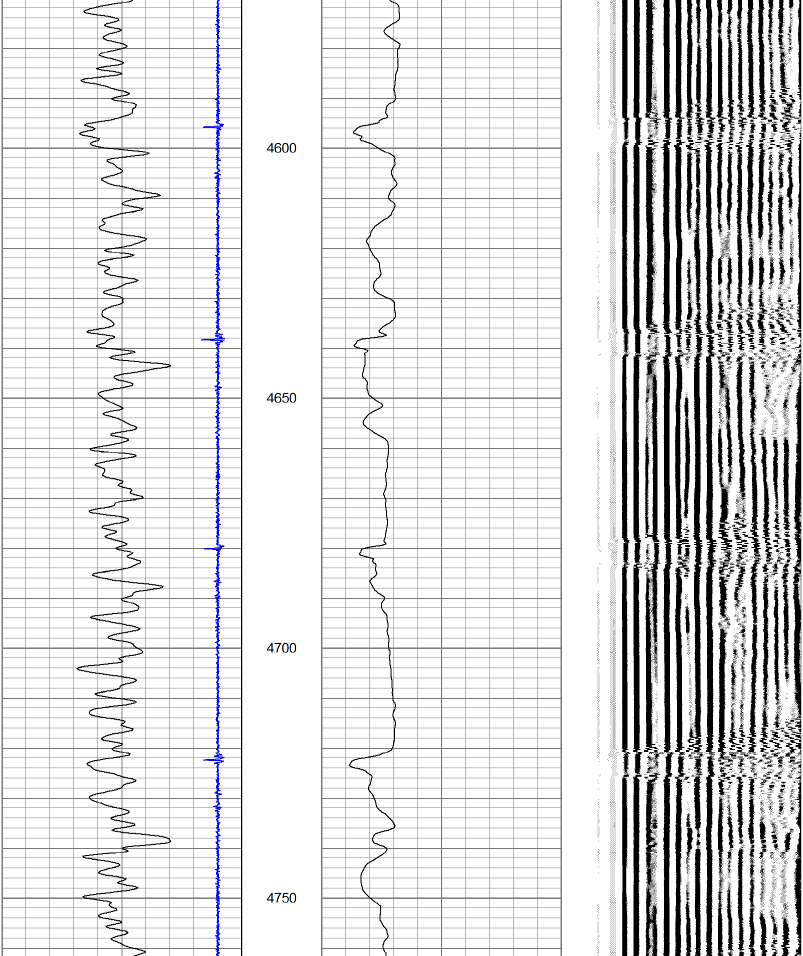


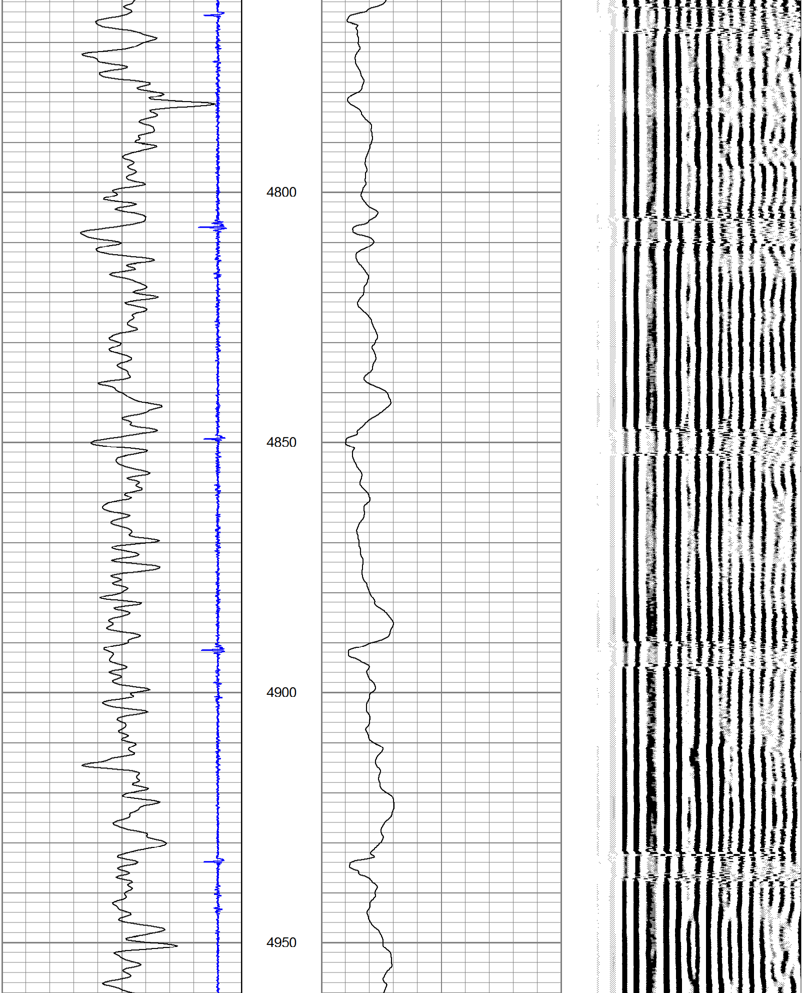


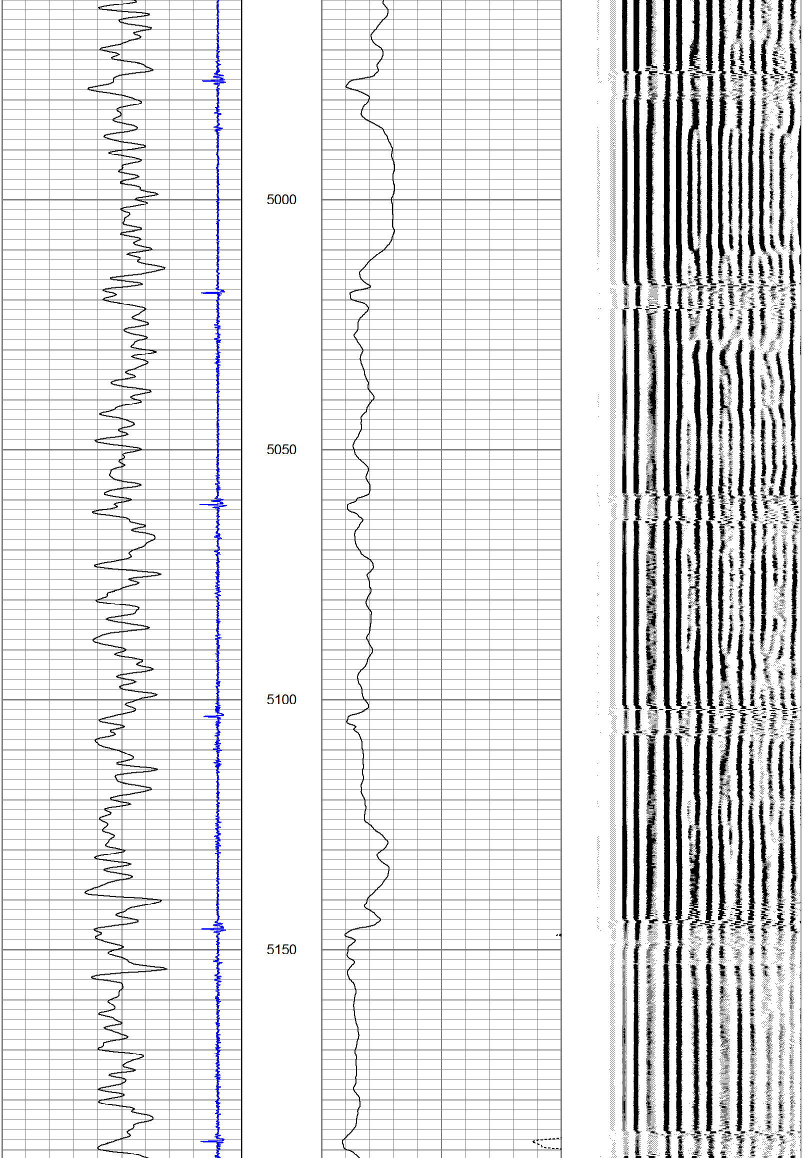


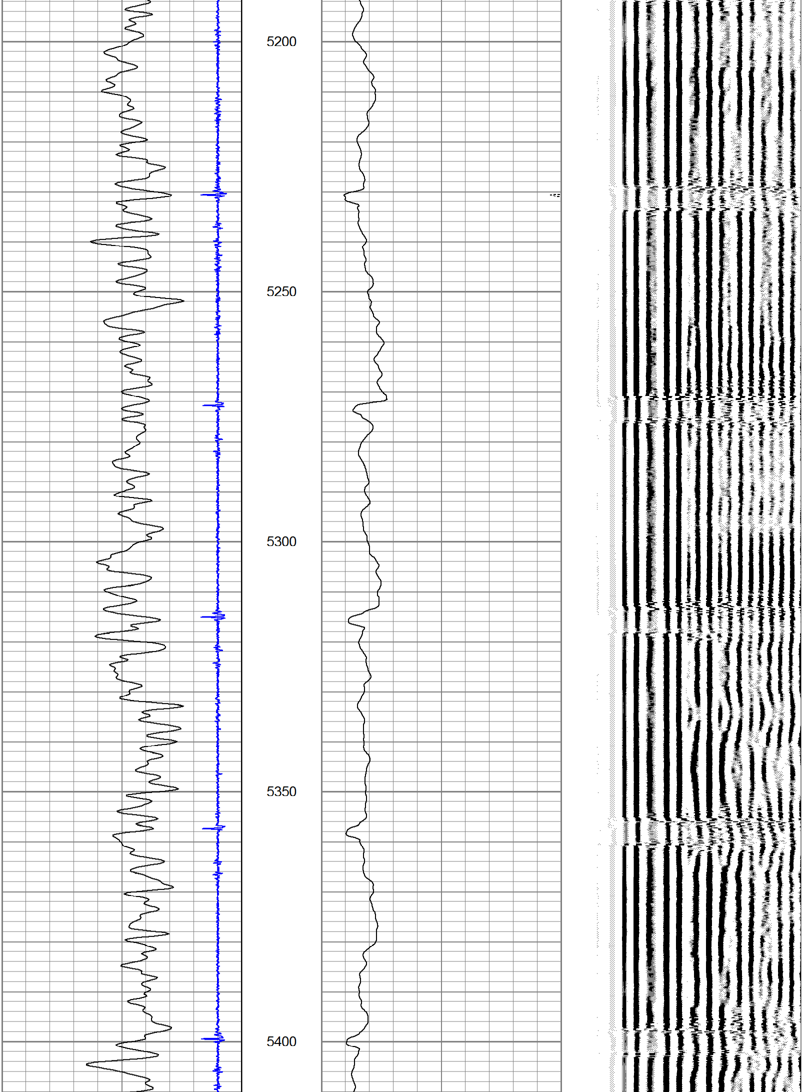


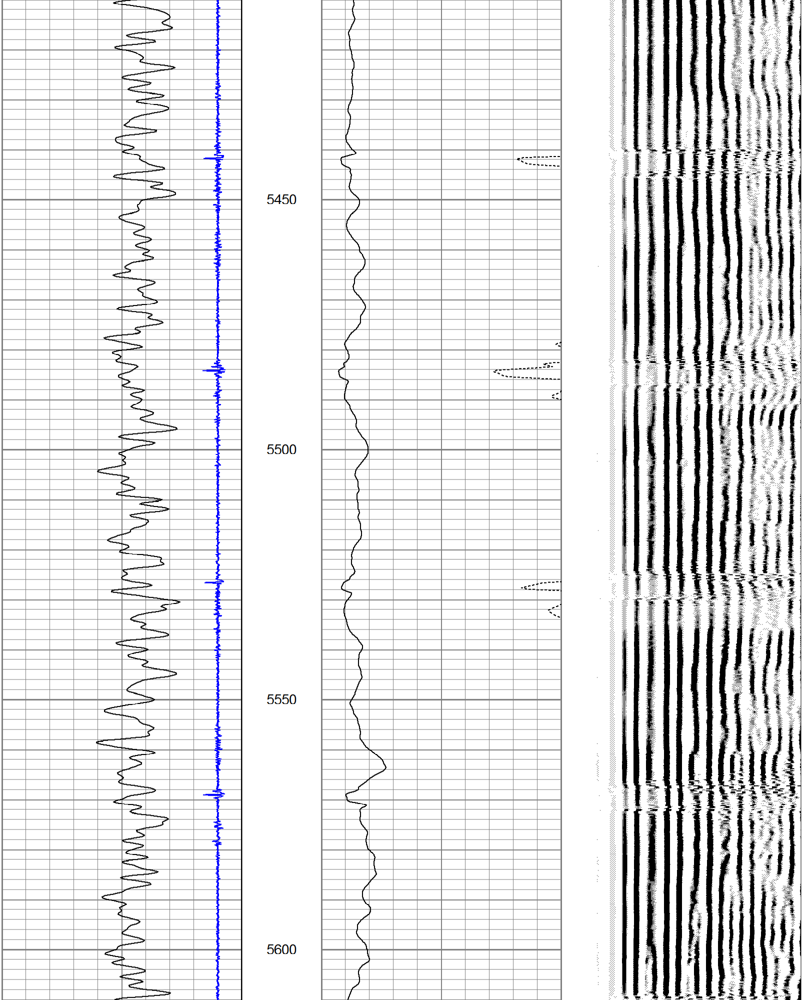


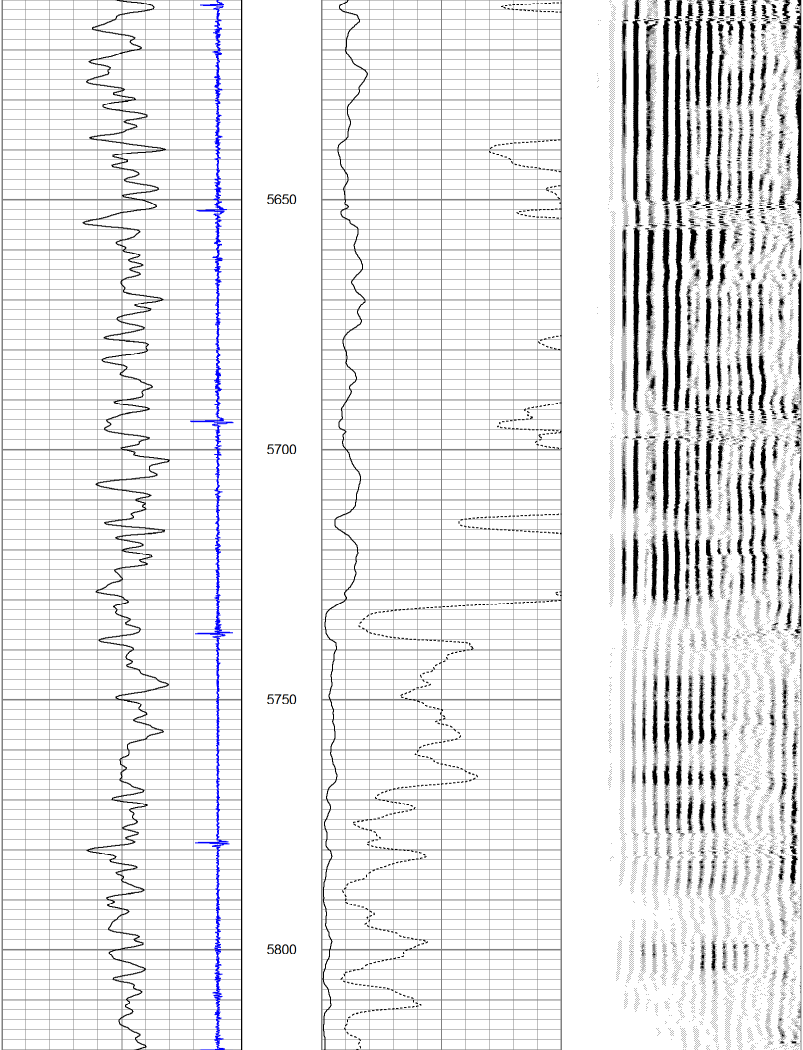


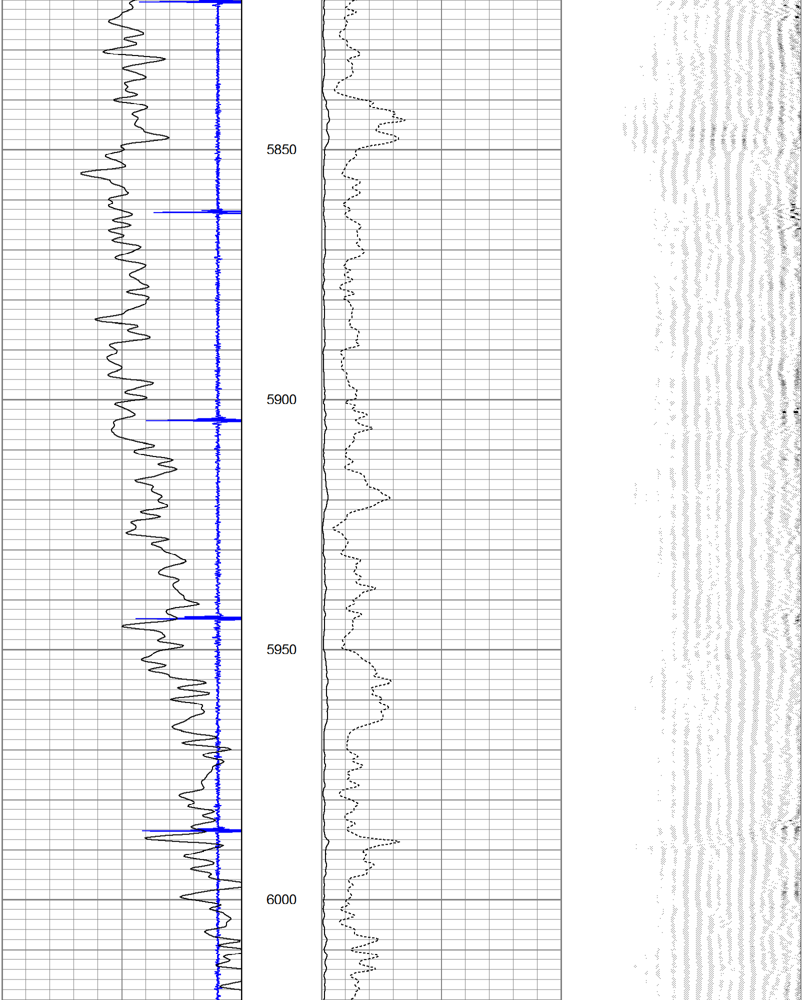


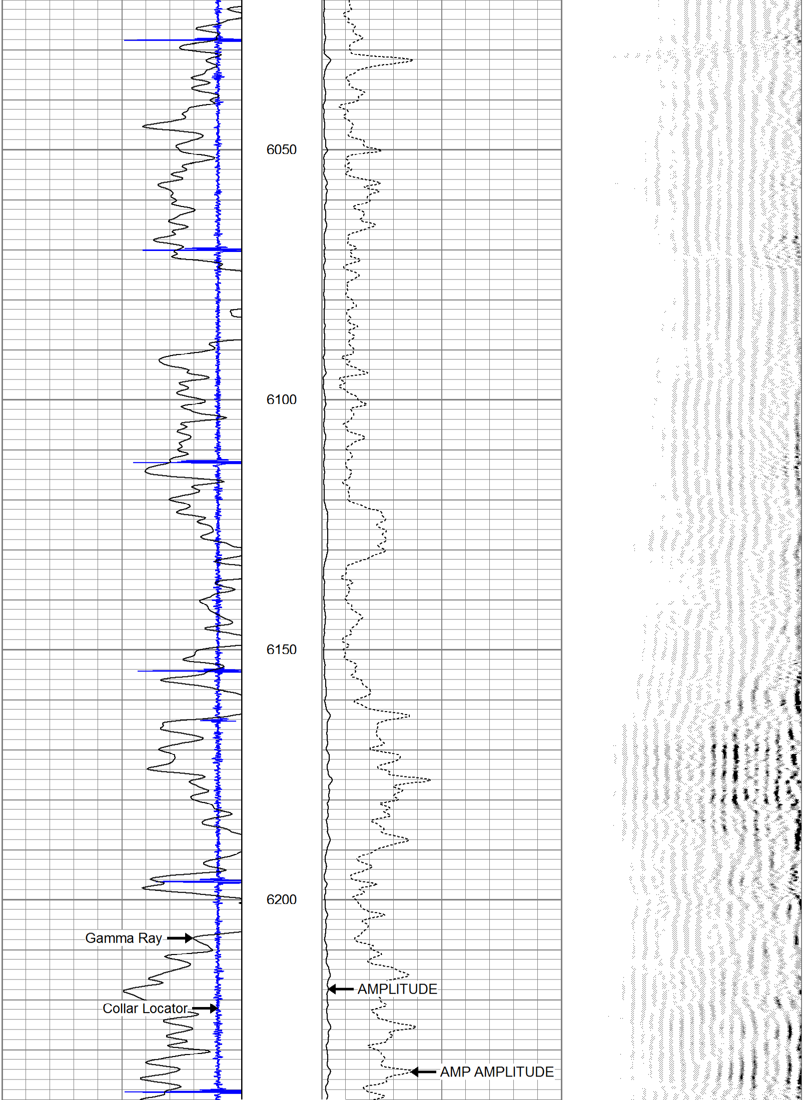


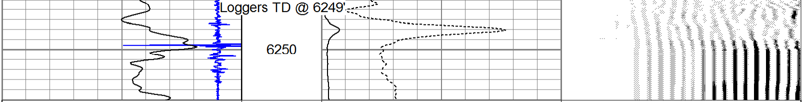












-9	Collar Locator	1	0	AMP AMPLITUDE (mV)	10	200	VDL	1200
0	Gamma Ray (GAPI)	200	0	AMPLITUDE (mV)	100			

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MAIN PASS

LOGGED UNDER 0 PSI

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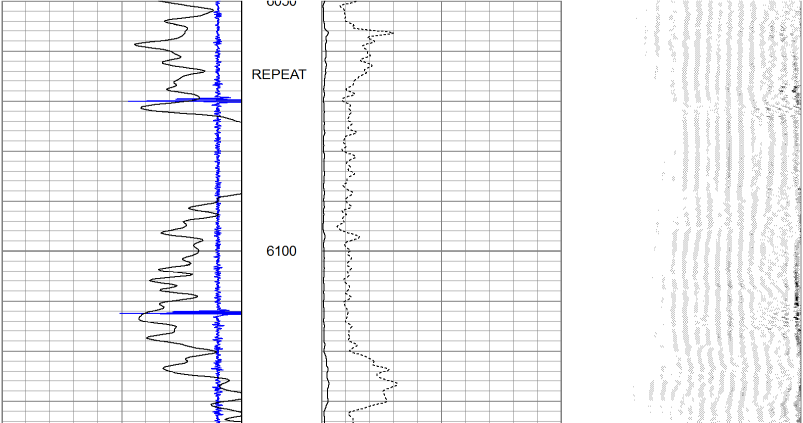
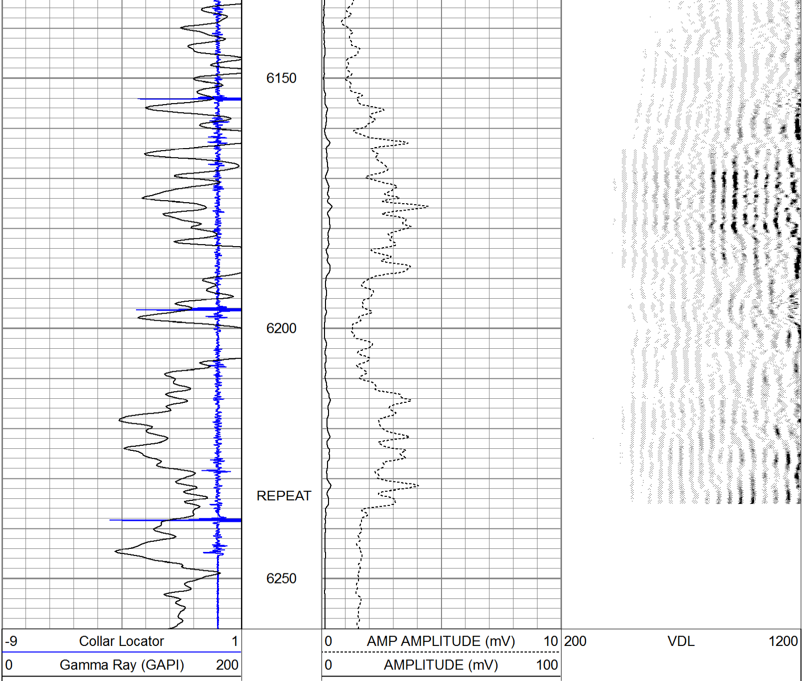
REPEAT PASS

LOGGED UNDER 0 PSI

Database File: 13960.db
Dataset Pathname: REPEAT
Presentation Format: cbl
Dataset Creation: Fri Feb 27 22:14:41 2015
Charted by: Depth in Feet scaled 1:240

-9	Collar Locator	1	0	AMP AMPLITUDE (mV)	10	200	VDL	1200
0	Gamma Ray (GAPI)	200	0	AMPLITUDE (mV)	100			





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REPEAT PASS

LOGGED UNDER 0 PSI

Calibration Report

Database File: 13960.db
Dataset Pathname: pass3.1
Dataset Creation: Fri Feb 27 18:05:45 2015 by Calc Open-Cased 110302

Gamma Ray Calibration Report

Serial Number: 51013
Tool Model: probe 2.75
Performed: Fri Feb 27 15:48:35 2015

Calibrator Value:	1400.0	GAPI
Background Reading:	26.8	cps
Calibrator Reading:	1120.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	141168	
Tool Model:	RBT-C3	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	1042.512	ft

Master Calibration, performed Fri Feb 27 18:04:58 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.002	0.908	0.500	62.200	67.800	0.607
CAL	0.001	0.882				
5'	0.000	0.935	0.500	62.200	66.024	0.500
SUM						
S1	-0.002	0.916	0.000	100.000	108.857	0.235
S2	-0.001	0.876	0.000	100.000	114.107	0.057
S3	0.000	0.864	0.000	100.000	115.763	-0.001
S4	-0.001	0.890	0.000	100.000	112.264	0.127
S5	0.000	0.925	0.000	100.000	108.150	-0.001
S6	-0.001	0.974	0.000	100.000	102.507	0.150
S7	0.000	0.967	0.000	100.000	103.395	-0.000
S8	0.000	0.959	0.000	100.000	104.242	-0.000

Internal Reference Calibration, performed Fri Jan 30 08:10:19 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.909	0.001	1.020	1.122	0.000

Air Zero Calibration, performed Fri Jan 30 07:19:30 2015:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Temperature Calibration Report

Serial Number: 141168
Tool Model: RBT-C3
Performed: Fri Feb 27 15:48:44 2015

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

Gain: 0.77
Offset: 20.00
Delta Spacing 1