Company	BONANZA CREEK ENERGY OP.
Well	STATE PRONGHORN X-32-31MRLNB
Field	WILDCAT
County	WELD
State	CO

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CEMENT BOND LOG WITH GAMMA RAY

Company	BONANZA CREEK ENERGY OP. CO LLC
Well	STATE PRONGHORN X-32-31MRLNB
Field	WILDCAT
County	WELD
State	CO

Location: API # : 05123412630000
SHL: 568' FSL & 1067' FEL SESE
LAT: 40.35153
LONG: -104.22717
SEC 32 TWP 5N RGE 61W

Other Services
None

Permanent Datum	GL	Elevation 4531	Elevation
Log Measured From	KB		K.B. 4548
Drilling Measured From	KB...17' ABOVE GL		D.F. 4548
			G.L. 4531

Date of Service	MAY 29, 2015
Run Number	1
Depth Driller or PBTD	NA
Depth Logger	5630
Bottom Log Interval	5628
Top Log Interval	SURFACE
Open Hole Size	8.75"
Type Fluid	WATER
Fluid Level	30
Fluid Density	8.33 PPG
Max. Recorded Temperature	182 F
Max. Wellhead Pressure	0
Wellhead Connection	NA
Estimated Cement Top	176
Unit Number	P96
Wireline Size	9/32"
Location	FT MORGAN, CO
Recorded By	SCHUMAN
Witnessed By	MR KURT DODGE

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9.625"	36#	SURFACE	443
Production Casing	7"	26#	SURFACE	6501
Liner Record	4.5"	11.6#	5576	NA

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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.
S.O. # 2-280173

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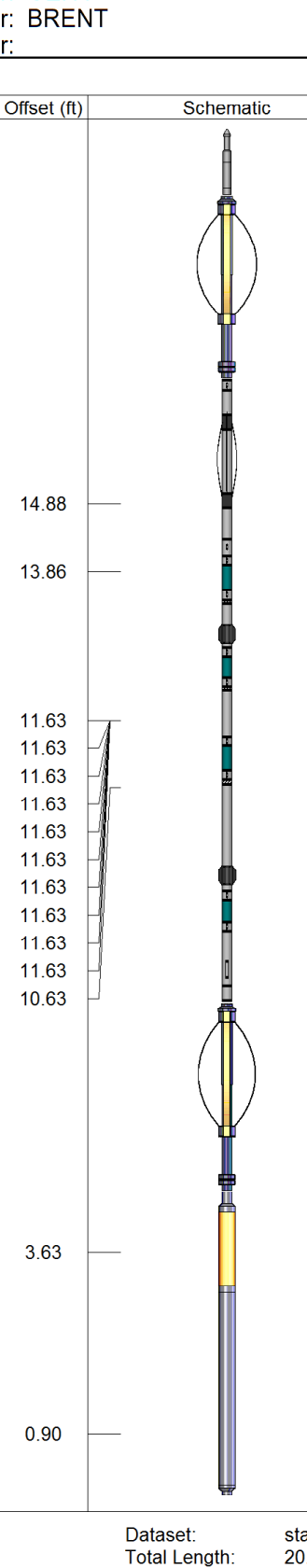
THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: SHAUN	CBL	141167
Operator: GENO	GR	080538
Operator: BRENT		
Operator:		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	10.00
			2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
IntTemp	14.88					
TEMP	13.86					
WVF3FT	11.63		RBT-RBT-C3 (141167_7in) Probe Radii Bond Tool with Digital Telemetry	9.40	2.75	90.00
WVFCAL	11.63					
WVFS1	11.63					
WVFS2	11.63					
WVFS3	11.63					
WVFS4	11.63					
WVFS5	11.63					
WVFS6	11.63					
WVFS7	11.63					
WVFS8	11.63					
WVF5FT	10.63					
			PTS275	2.83	2.75	
CCL	3.63					
			GR_CCL-Probe (080538) Probe Gamma CCL	4.54	2.75	100.00
GR	0.90					

Dataset: state pronghorn x-32-31mrlnb_cbl.db: field/well/cbl/pass3
Total Length: 20.50 ft
Total Weight: 225.00 lb
O.D. 2.75 in

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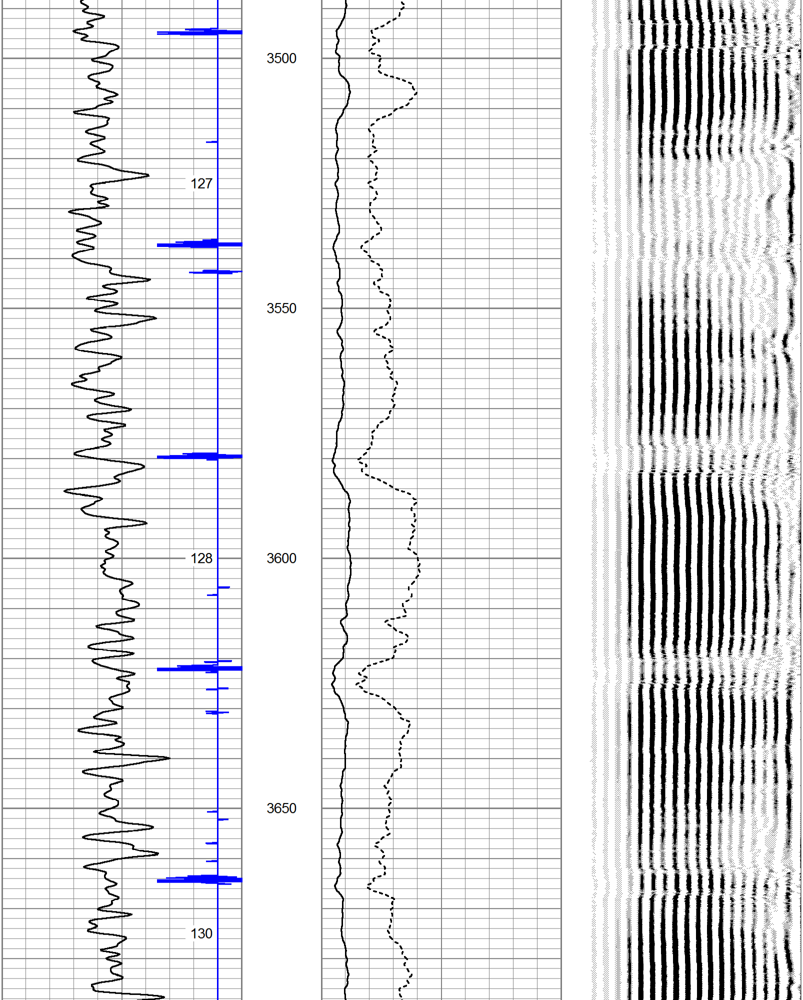
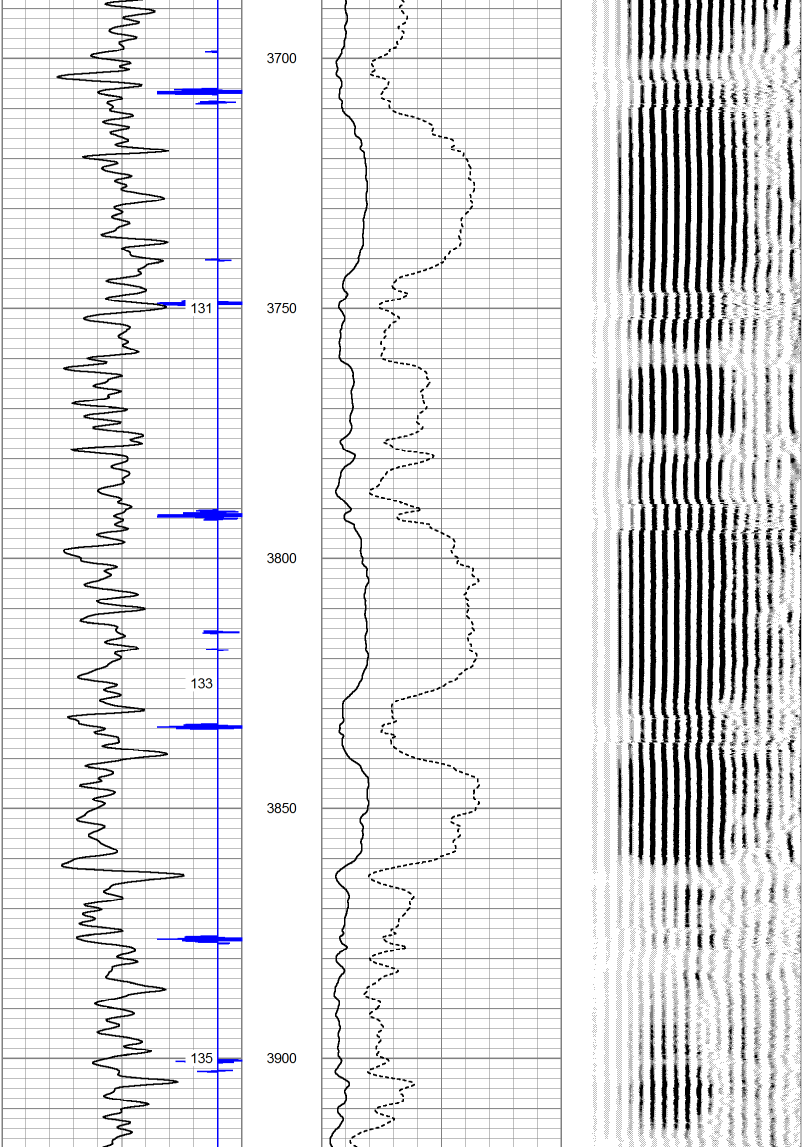
MAIN LOG

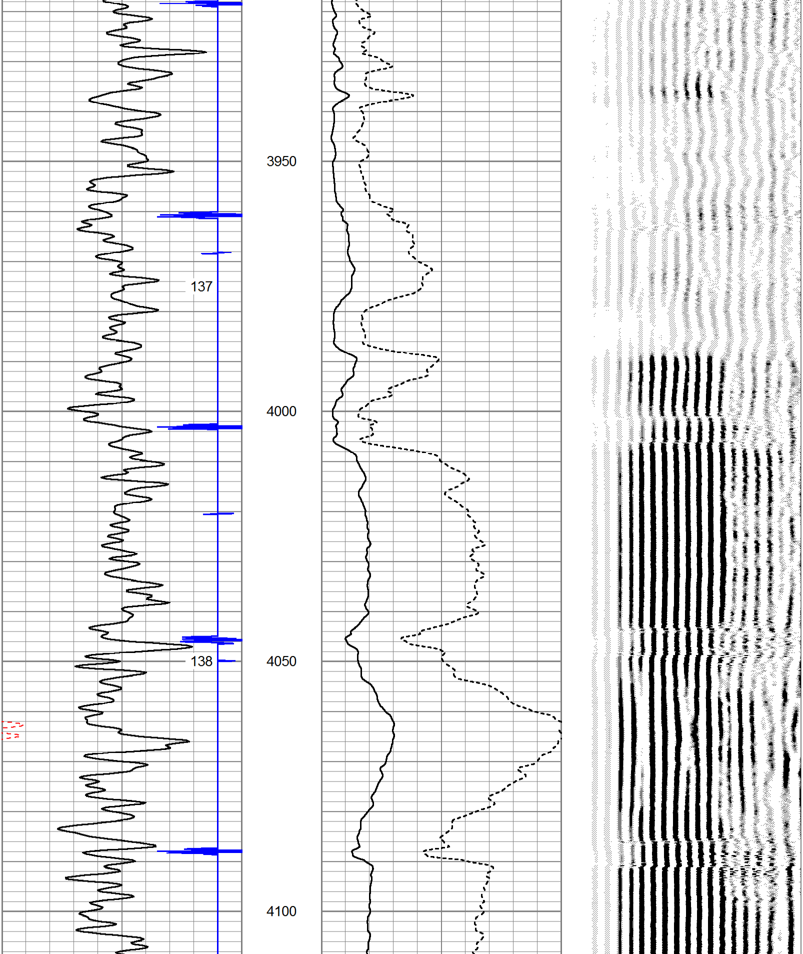
LOGGED WITH 0 PSI APPLIED AT WELLHEAD

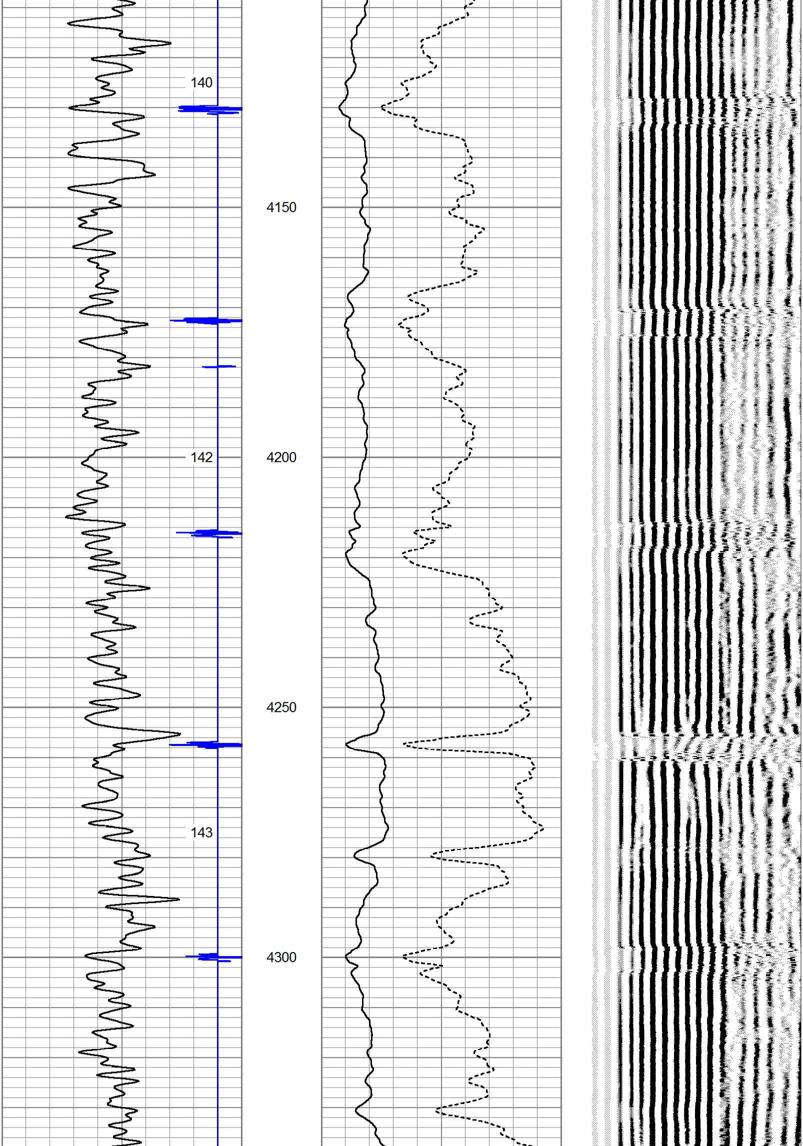
Database File: state pronghorn x-32-31mrlnb_cbl.db
Dataset Pathname: cbl/pass3
Presentation Format: cbl_drs
Dataset Creation: Fri May 29 13:31:14 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

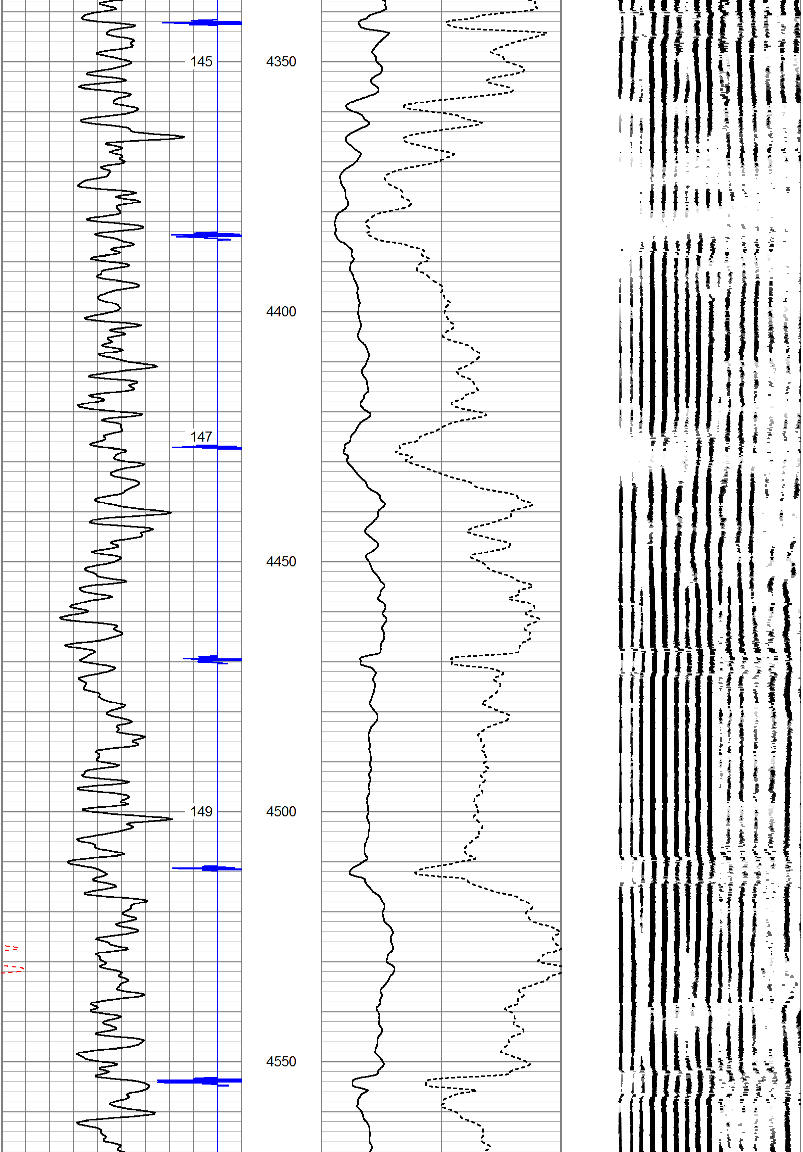
9 Collar Locator -1
0 Gamma Ray (GAPI) 200
300 TT3FT (usec) 200
Well Temp (degF)
0 AMPLIFIED AMPLITUDE (mV) 30
0 AMPLITUDE (mV) 100
200 VDL 1200

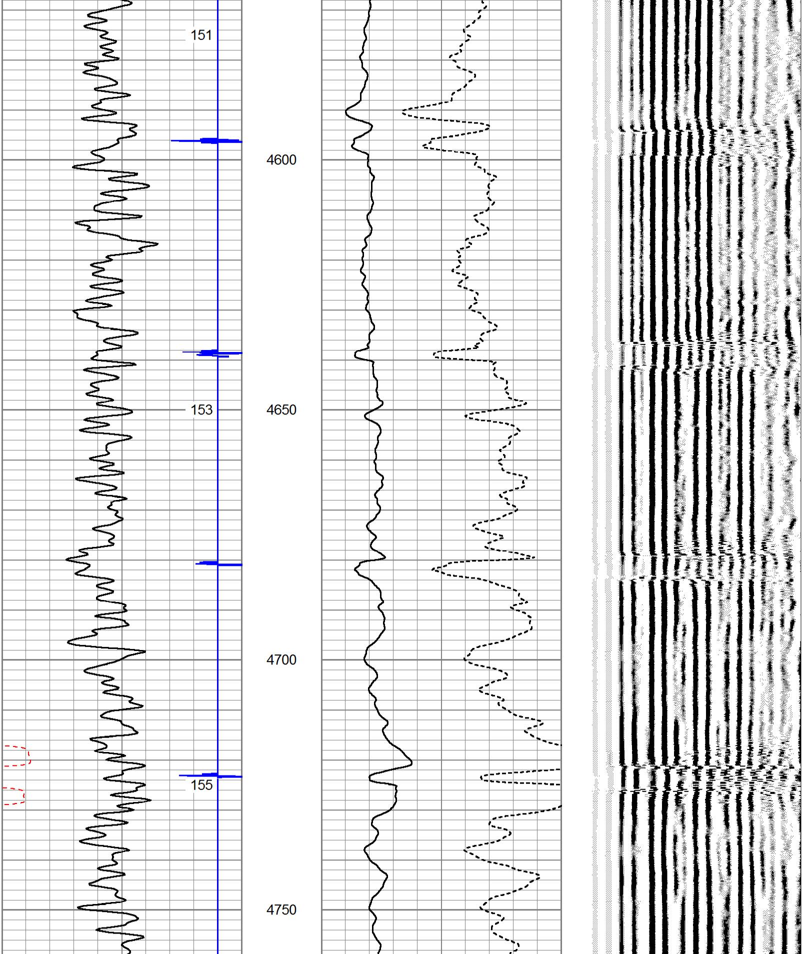


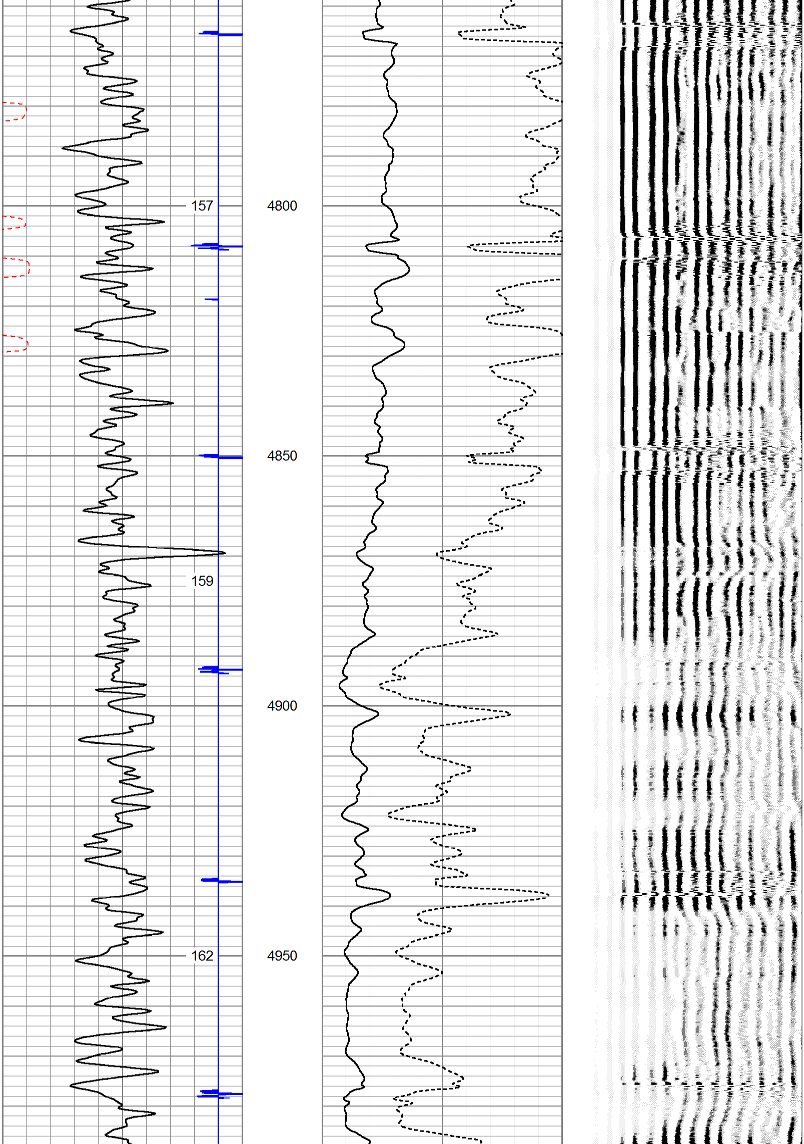


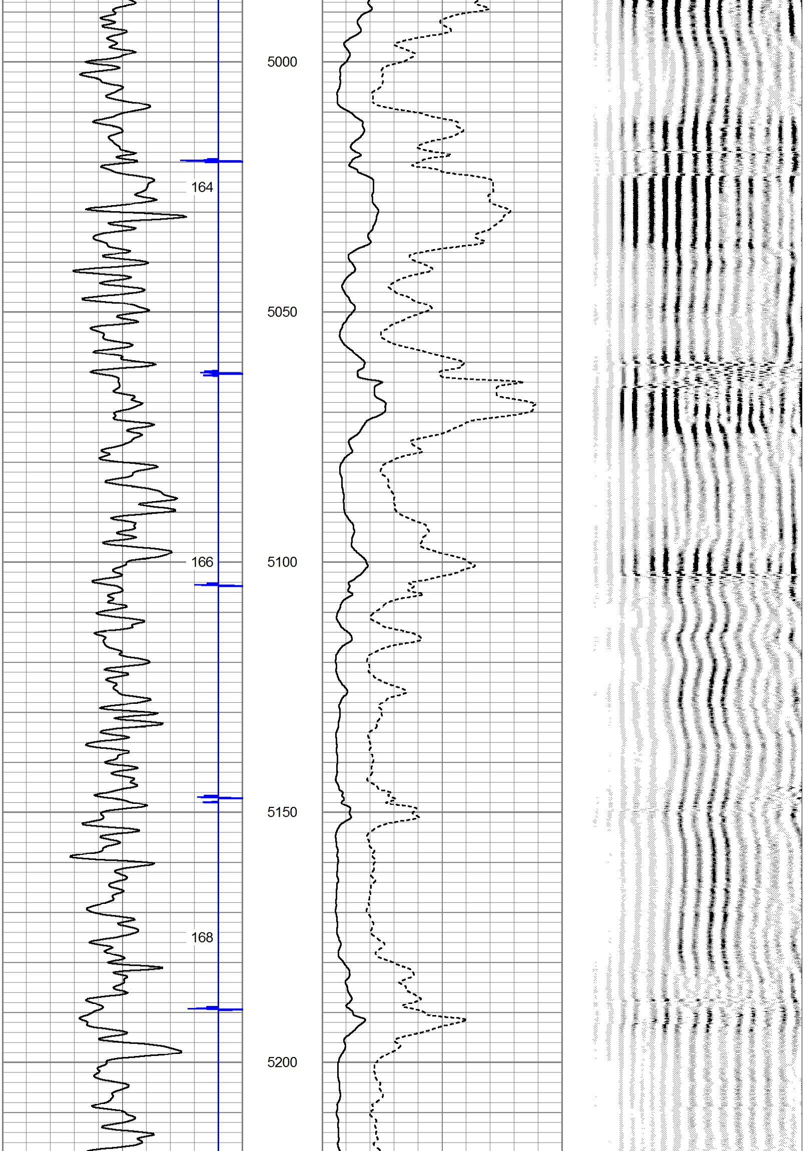


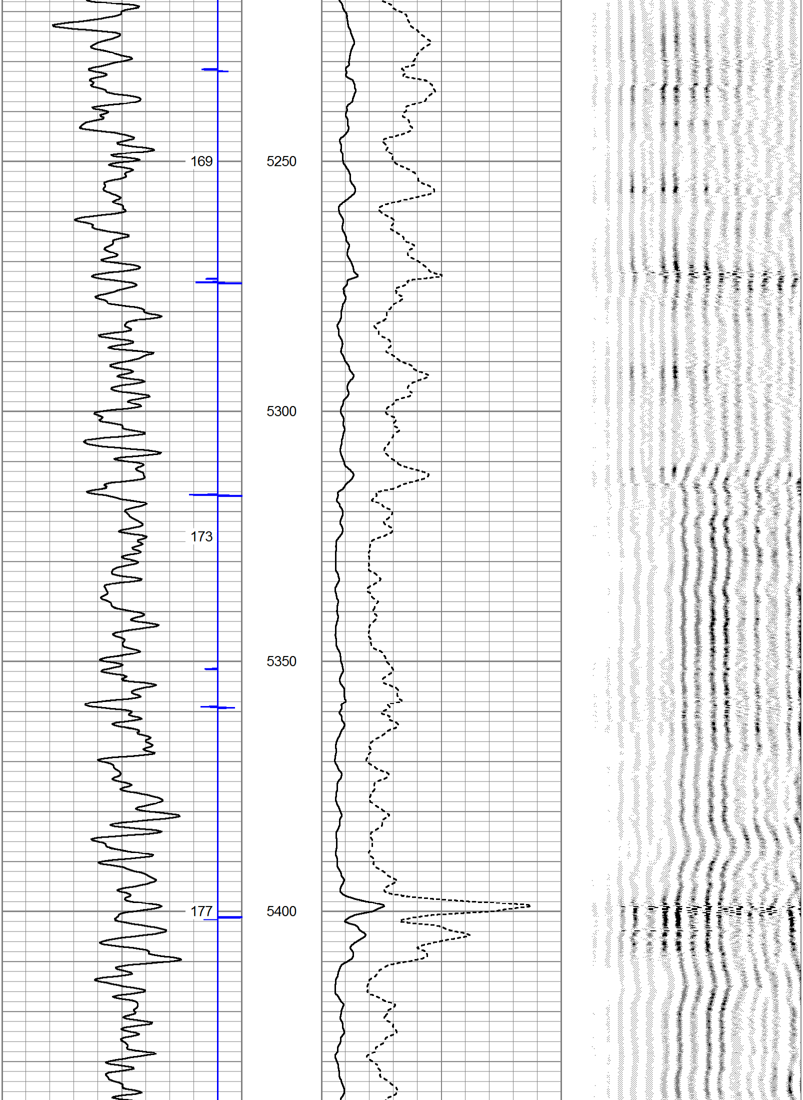


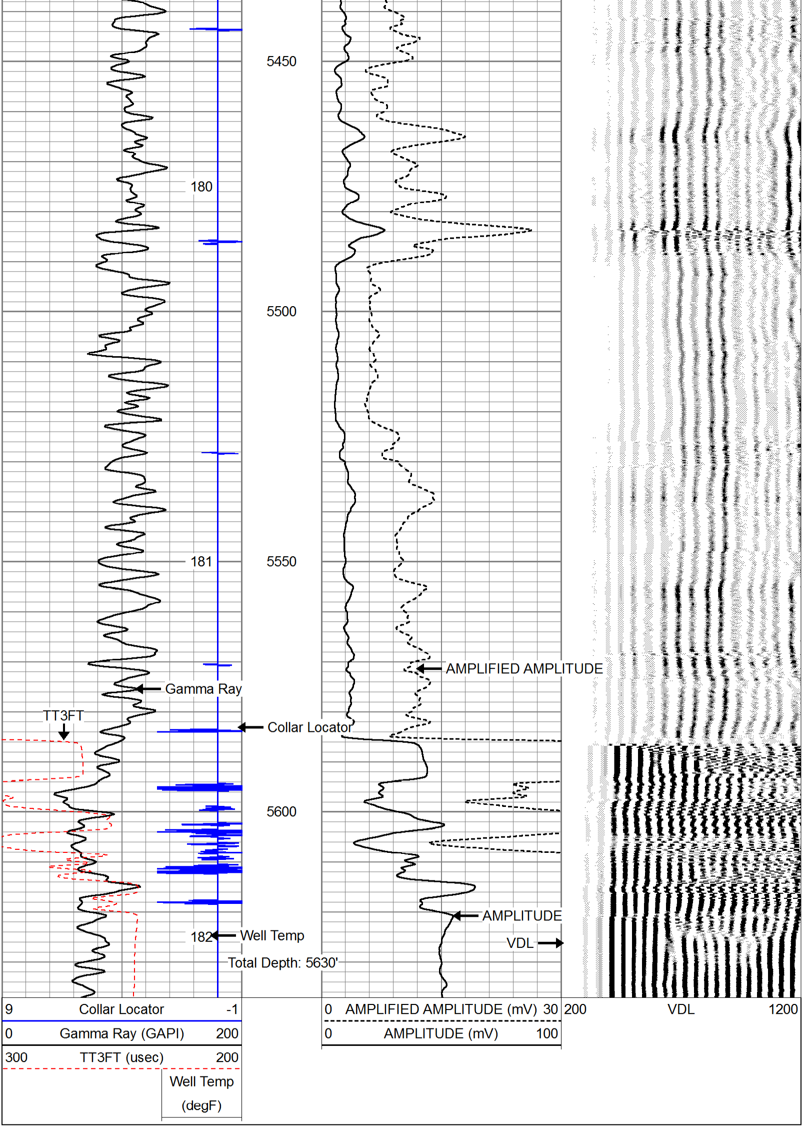












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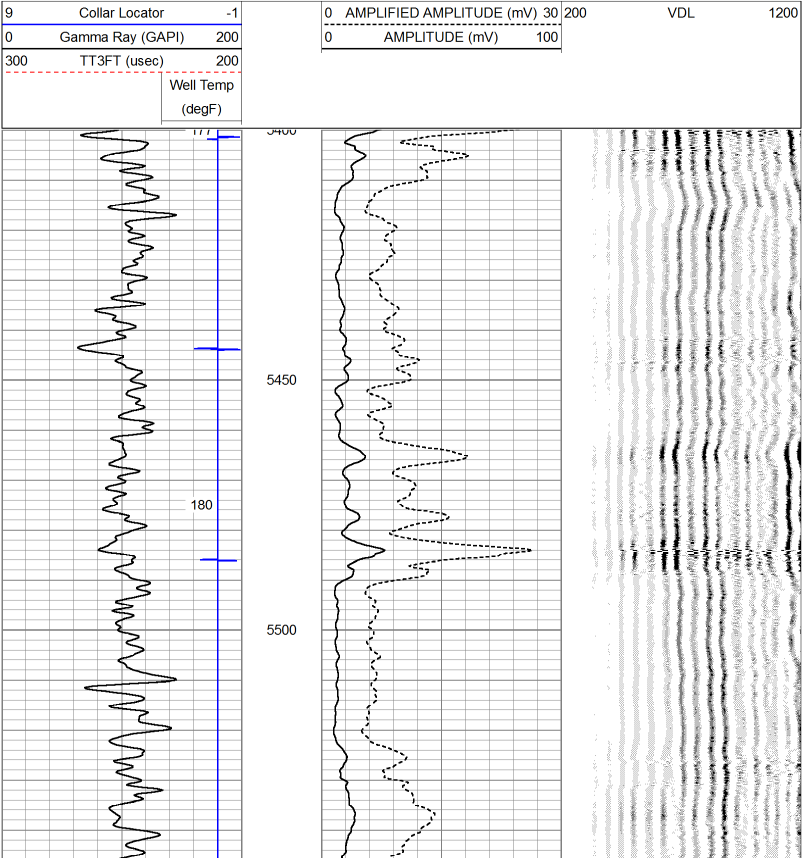
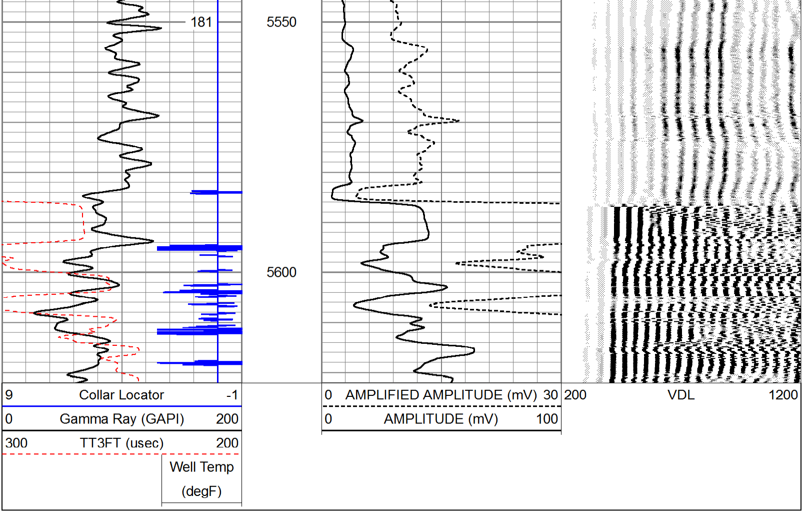
REPEAT SECTION

LOGGED WITH 0 PSI APPLIED AT WELLHEAD

Database File:	state pronghorn x-32-31mrlnb_cbl.db
Dataset Pathname:	cbl/pass2
Presentation Format:	cbl_drs
Dataset Creation:	Fri May 29 13:20:46 2015 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240





Calibration Report

Database File: state pronghorn w43-32-31mrlnc_cbl.db
Dataset Pathname: cbl/pass3
Dataset Creation: Fri May 29 07:47:25 2015 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number: 080538
Tool Model: Probe
Performed: Fri May 29 06:34:07 2015

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 1.4000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 141167_7in
Tool Model: RBT-C3

Calibration Casing Diameter: 7.000 in
Calibration Depth: 0.000 ft

Master Calibration, performed Fri May 15 15:55:01 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	0.670	1.500	62.165	94.000	1.200
CAL	0.016	0.668				
5'	0.015	0.659	1.500	62.165	94.221	0.084
SUM						
S1	0.009	0.660	0.000	100.000	153.420	-1.324
S2	0.015	0.667	0.000	100.000	153.512	-2.369
S3	0.016	0.669	0.000	100.000	153.136	-2.383
S4	0.016	0.665	0.000	100.000	154.101	-2.447
S5	0.015	0.662	0.000	100.000	154.607	-2.357
S6	0.015	0.670	0.000	100.000	152.722	-2.332
S7	0.015	0.672	0.000	100.000	152.372	-2.344
S8	0.015	0.671	0.000	100.000	152.486	-2.338

Temperature Calibration Report

Serial Number: 141167_7in
Tool Model: RBT-C3
Performed: Thu Feb 19 09:06:23 2015

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

Gain: 0.86
Offset: -2.00
Delta Spacing 1

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Company	BONANZA CREEK ENERGY OP. CO LLC		
Well	STATE PRONGHORN X-32-31MRLNB		
Field	WILDCAT		
County	WELD		
State	CO	Country	USA