CEMENT BOND LOG WITH GAMMA RAY

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Pioneer Energy Services

Company BONANZA CREEK ENERGY OP.
Well STATE PRONGHORN X43-32-31MRLNC
Field WILDCAT
County WELD
State CO

Company **BONANZA CREEK ENERGY OP. CO LLC**
Well **STATE PRONGHORN X43-32-31MRLNC**
Field **WILDCAT**
County **WELD** State **CO**

Location: API # : 05123412600000
SHL: 570' FSL & 1087' FEL SESE
LAT: 40.35153
LONG: -104.22724
SEC 32 TWP 5N RGE 61W

Other Services
None

Permanent Datum GL Elevation 4531
Log Measured From KB
Drilling Measured From KB...17' ABOVE GL

Elevation
K.B. 4548
D.F. 4548
G.L. 4531

Date of Service	MAY 29, 2015
Run Number	1
Depth Driller or PBTD	NA
Depth Logger	5802
Bottom Log Interval	5800
Top Log Interval	SURFACE
Open Hole Size	8.75"
Type Fluid	WATER
Fluid Level	32
Fluid Density	8.33 PPG
Max. Recorded Temperature	185 F
Max. Wellhead Pressure	0
Wellhead Connection	NA
Estimated Cement Top	274
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	446
Production Casing	7"	26#	SURFACE	6711
Liner Record	4.5"	11.6#	5751	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. # 2-280172

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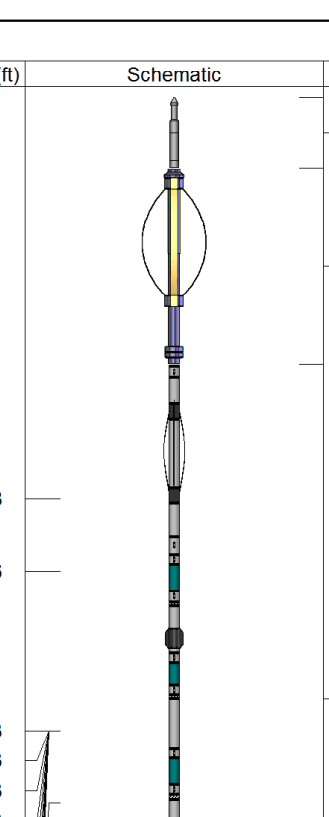
THANK YOU FOR USING PIONEER ENERGY SERVICES

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

Sensor	Offset (ft)
IntTemp	14.88
TEMP	13.86
WVF3FT	11.63
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
CCL	3.63
GR	0.90



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
RBT-RBT-C3 (141167_7in) Probe Radii Bond Tool with Digital Telemetry	9.40	2.75	90.00
PTS275	2.83	2.75	
GR_CCL-Probe (080538) Probe Gamma CCL	4.54	2.75	100.00

Dataset: state pronghorn x43-32-31mrlnc_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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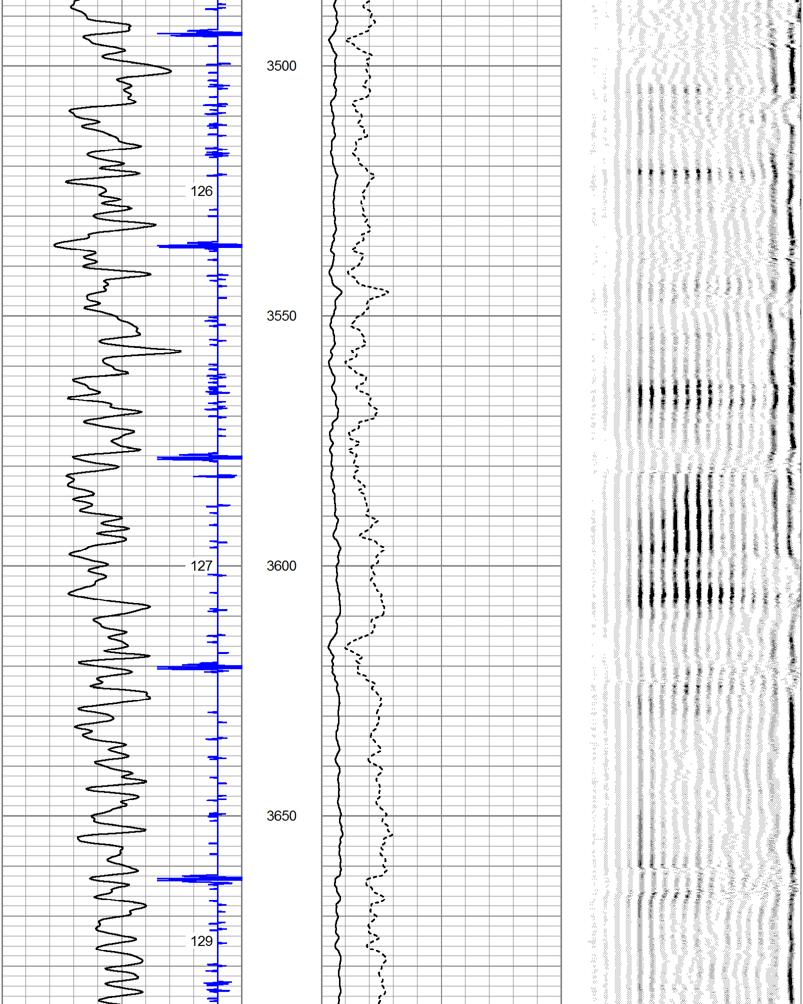
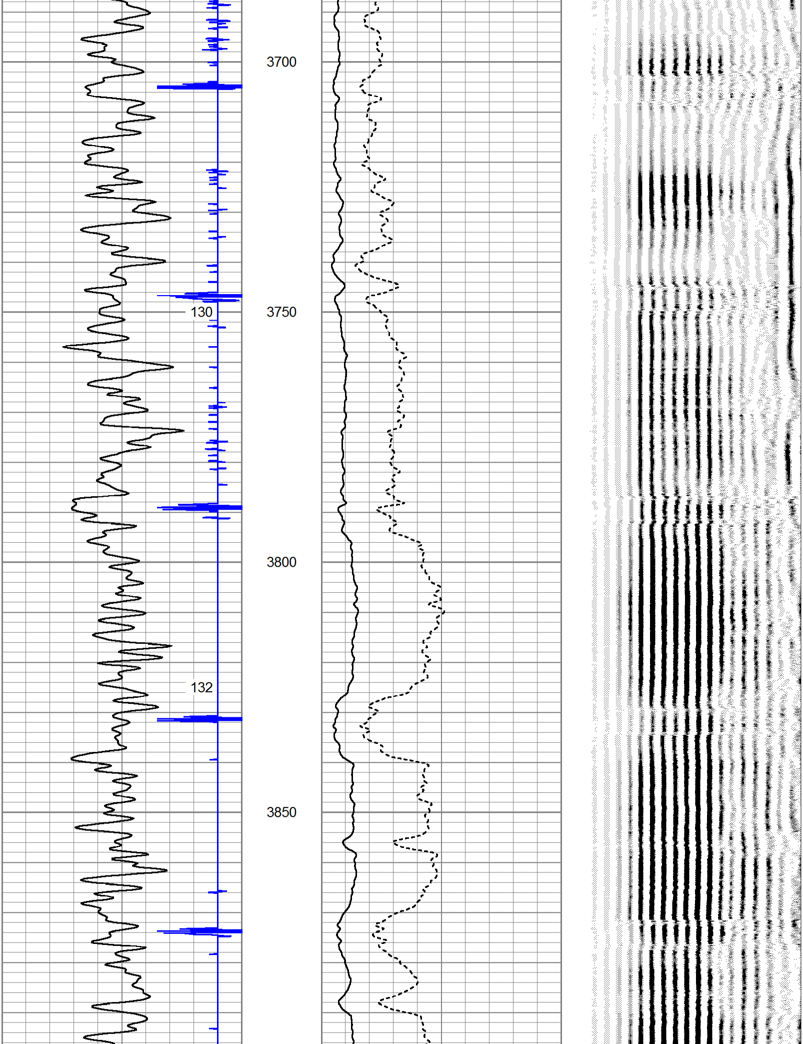
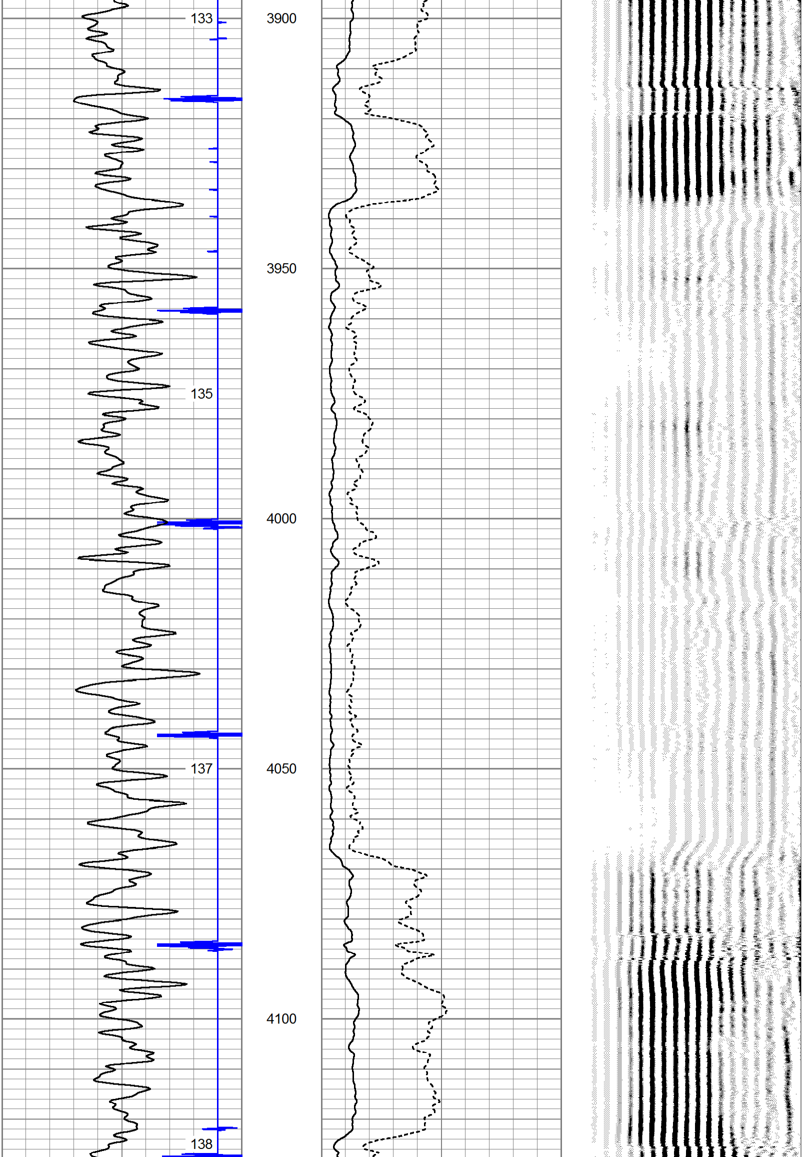
MAIN LOG

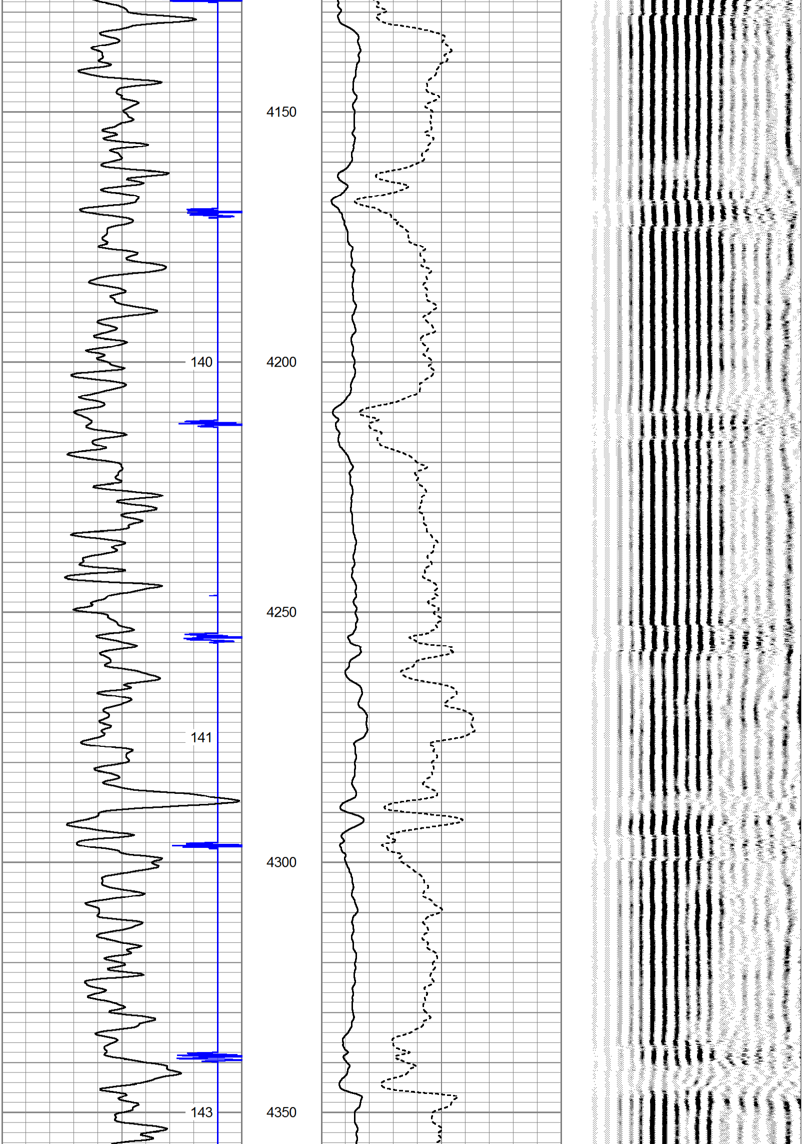
LOGGED WITH 0 PSI APPLIED AT WELLHEAD

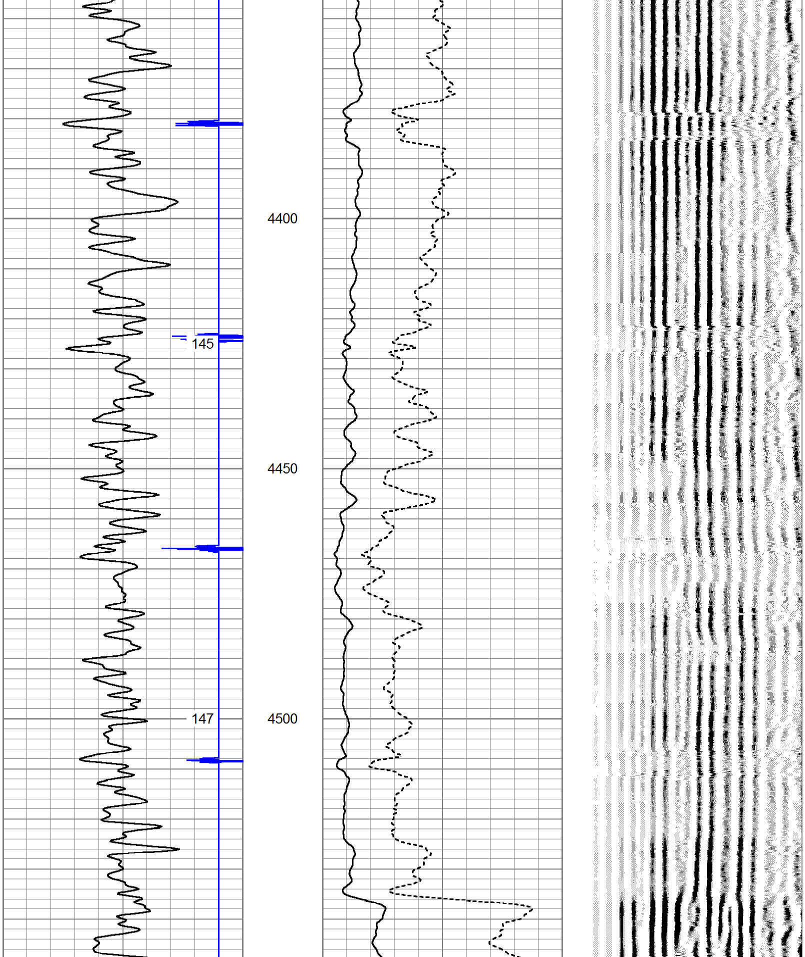
Database File: state pronghorn x43-32-31mrlnc_cbl.db
Dataset Pathname: cbl/pass3
Presentation Format: cbl_drs
Dataset Creation: Fri May 29 11:41:44 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

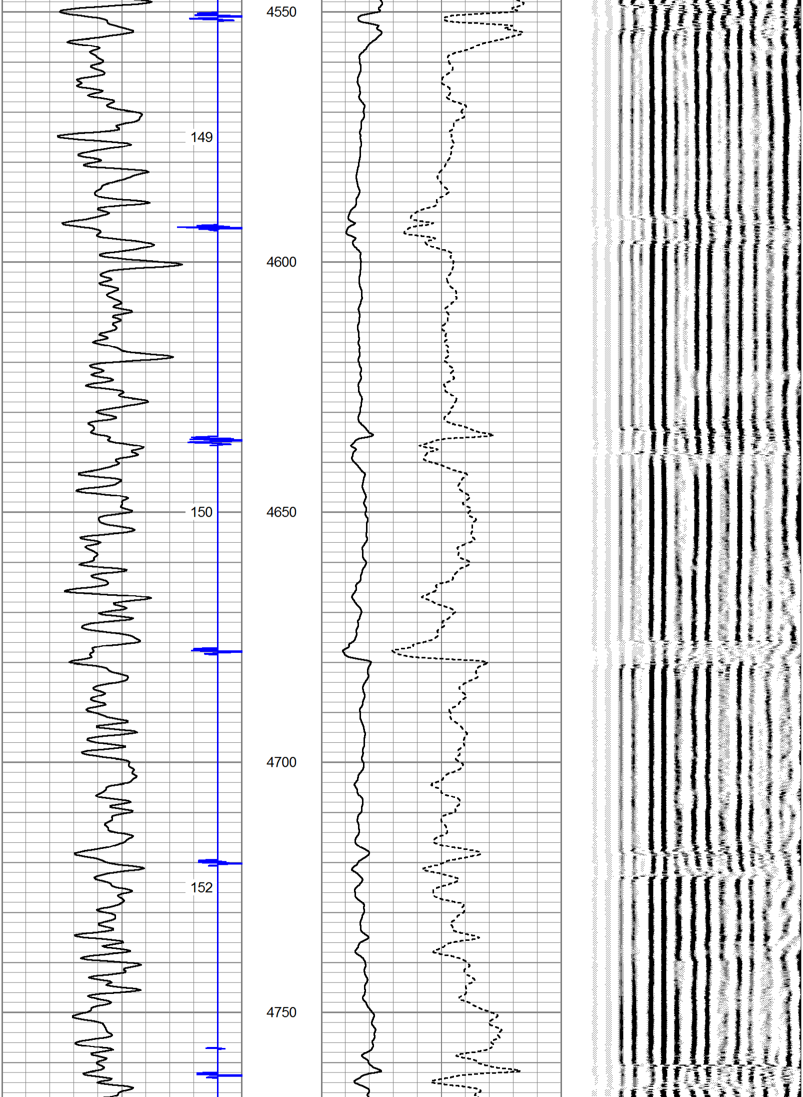


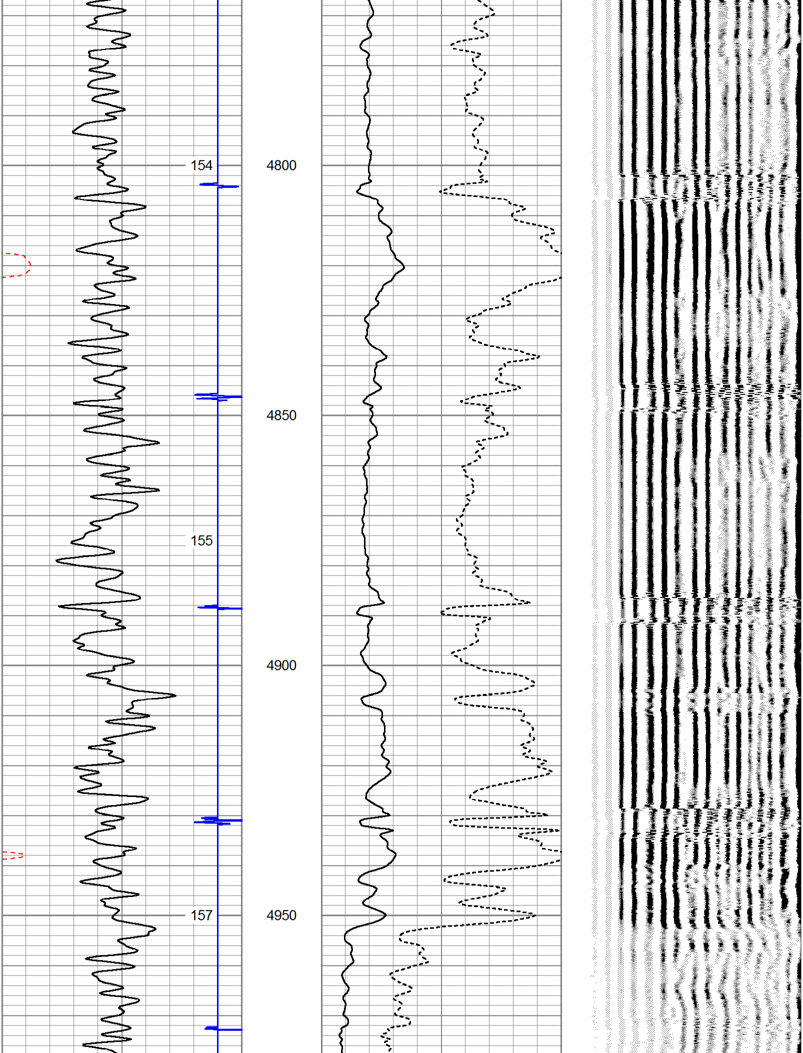


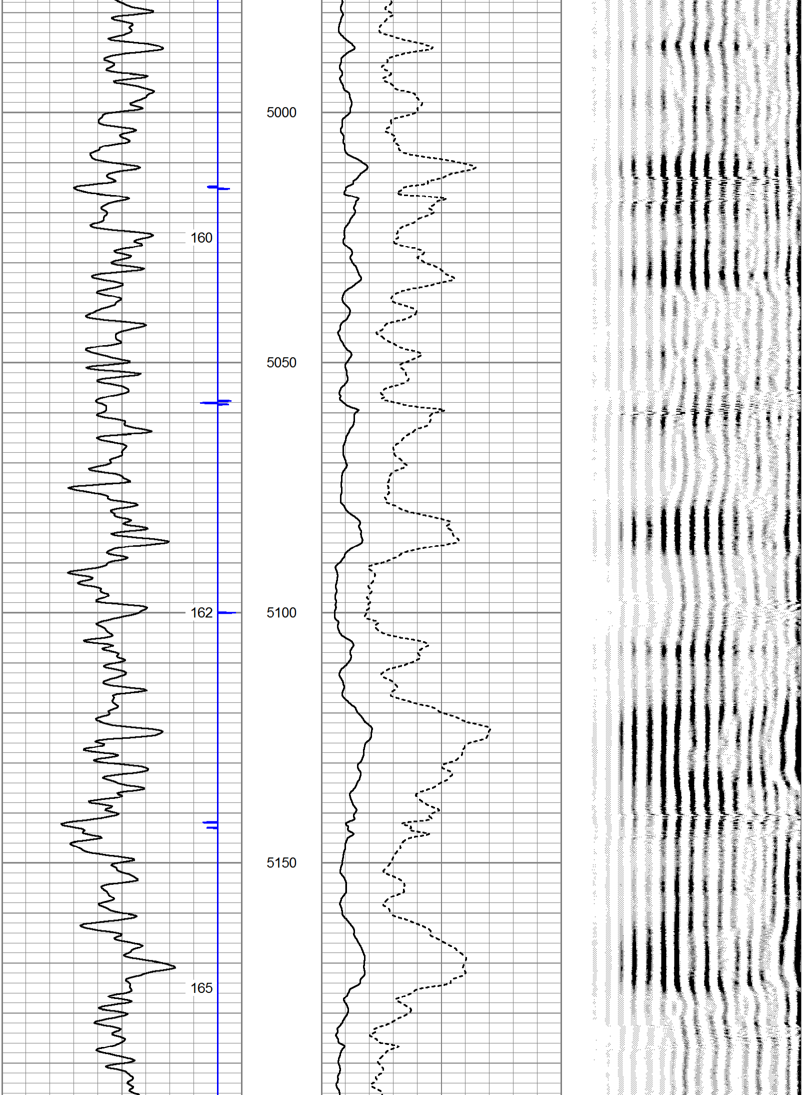


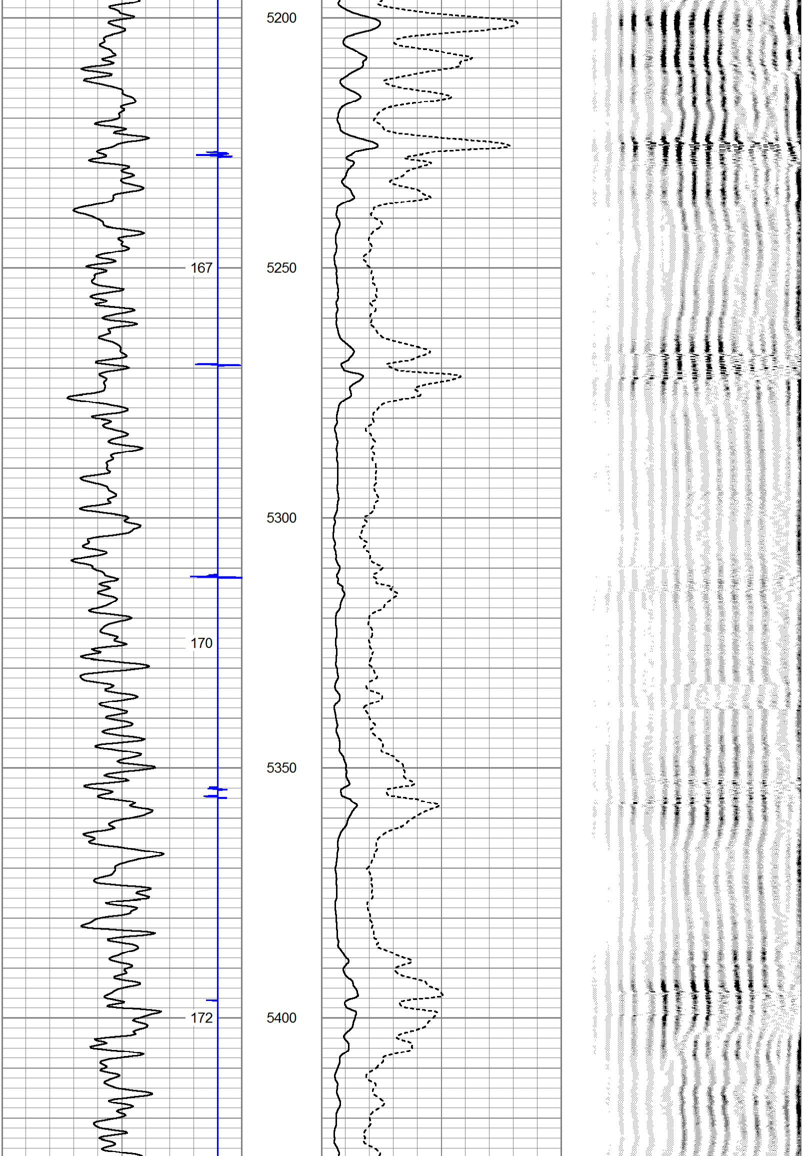


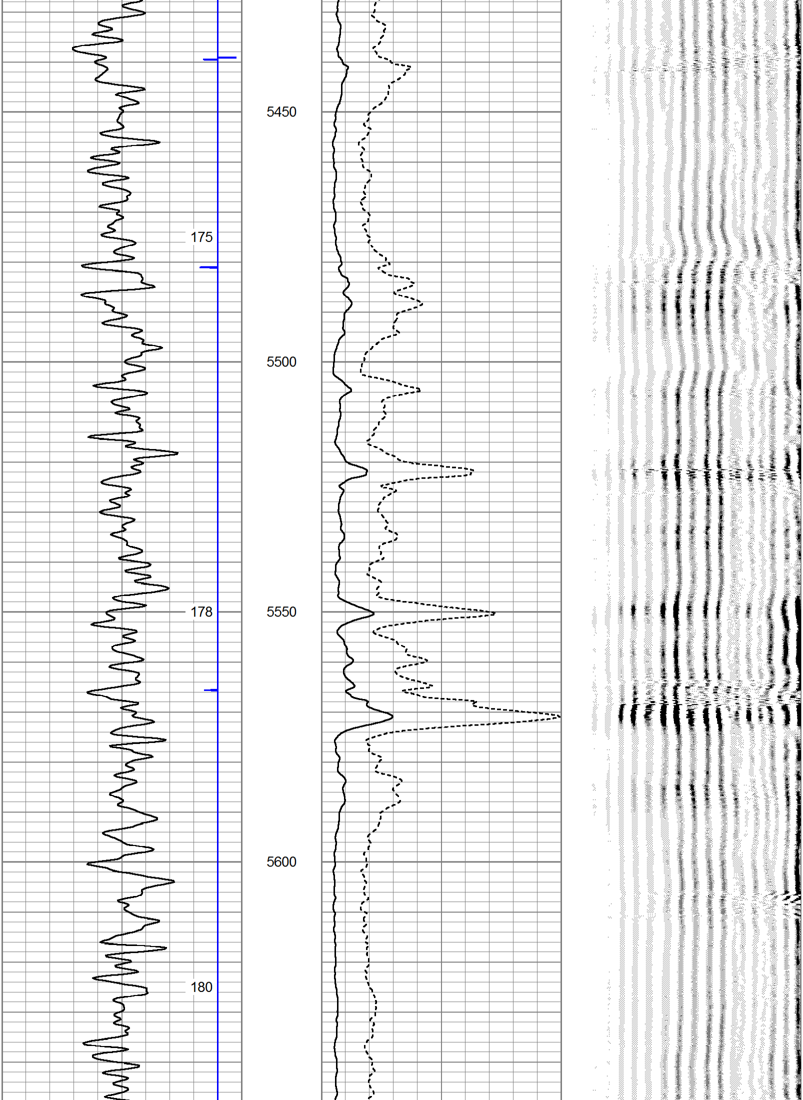


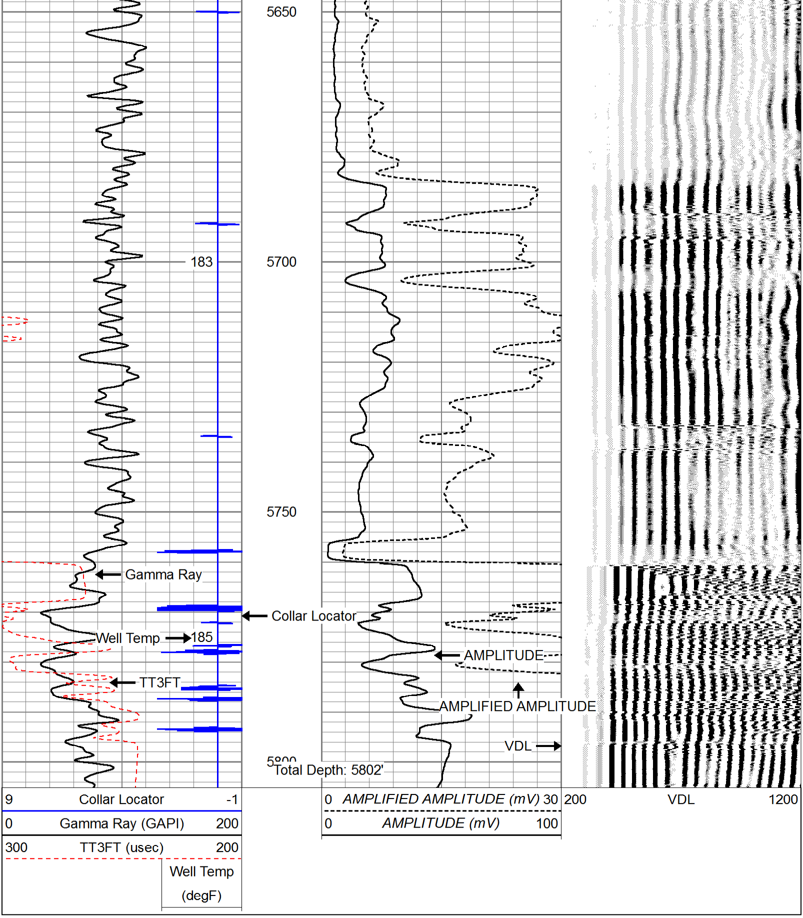












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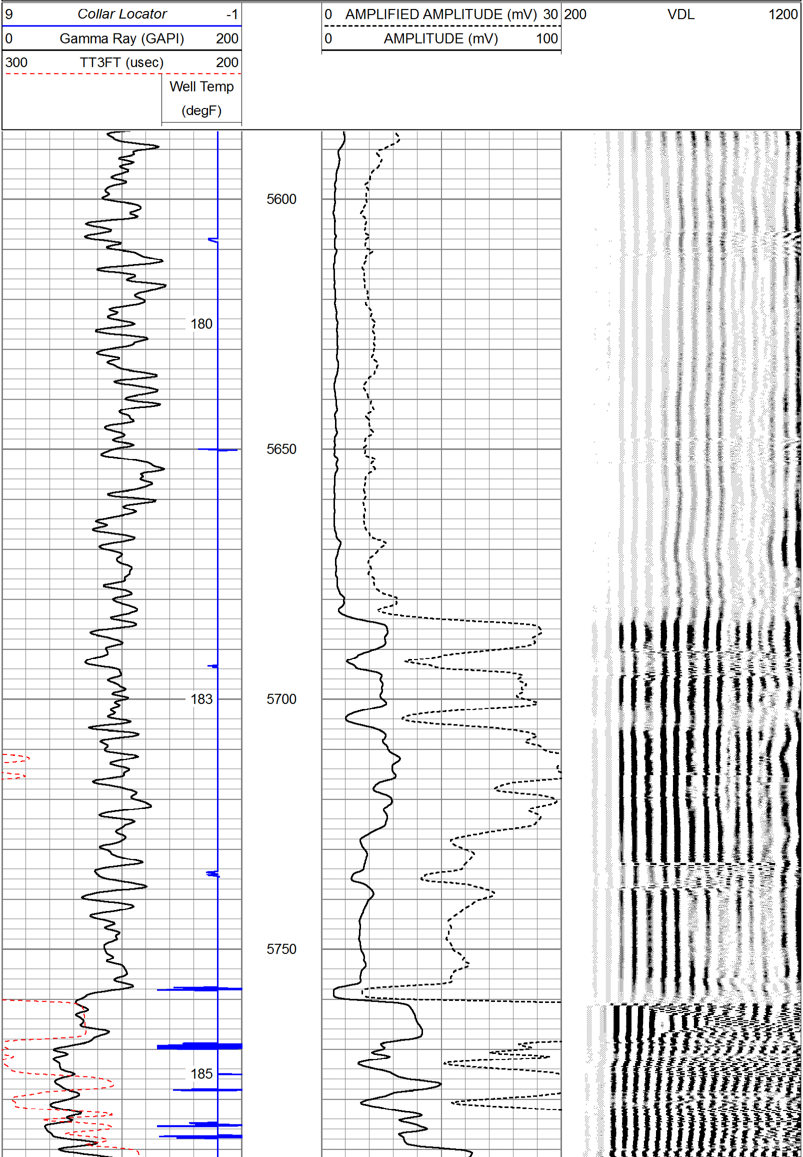
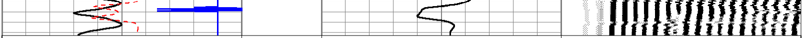
REPEAT SECTION

LOGGED WITH 0 PSI APPLIED AT WELLHEAD

Database File: state pronghorn x43-32-31mrlnc_cbl.db
Dataset Pathname: cbl/pass2
Presentation Format: cbl_drs
Dataset Creation: Fri May 29 11:27:38 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

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 X43-32-31MRLNC
Field	WILDCAT
County	WELD
State	CO
Country	USA