GAMMA RAY CCL CEMENT BOND VDL

KLX Energy Services

Company	BONANZA CREEK
Well	STATE PRONGHORN V-29-30 XRLNB
Field	WATTENBERG
County	WELD
State	COLORADO
Country	USA

API # : 05-123-44113

Location:
1338' FNL 548' FWL
NWNW

SEC 28 TWP 5N RGE 61W

Other Services

Permanent Datum	GL	Elevation	4618'
Log Measured From	KB 17'		
Drilling Measured From	KB		

Elevation
K.B. 4635'
D.F.
G.L. 4618'

Company	BONANZA CREEK
Well	STATE PRONGHORN V-29-30 XRLNB
Field	WATTENBERG
County	WELD
State	COLORADO
Country	USA

Date	APR-18-2018
Run Number	ONE
Depth Driller	16187'
Depth Logger	6220
Bottom Logged Interval	6220
Top Log Interval	SURFACE
Open Hole Size	NA
Type Fluid	WATER
Density / Viscosity	8.34 PPG
Max. Recorded Temp.	NA
Estimated Cement Top	
Time Well Ready	ROA
Time Logger on Bottom	3:00
Equipment Number	68
Location	STERLING
Recorded By	ZACH DIZMANG
Witnessed By	KURT DODGE

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9 5/8"	36#	SURFACE	1606'
Prot. String				
Production String	5.5"	17#	SURFACE	16176'
Liner				

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

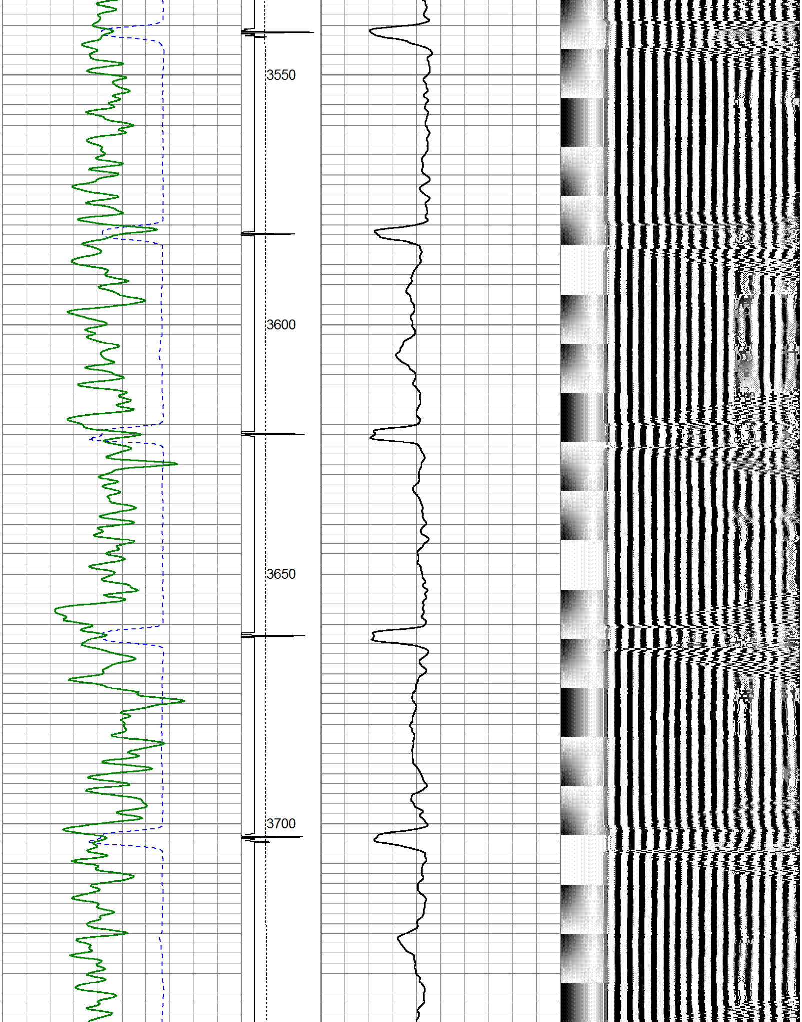
Comments

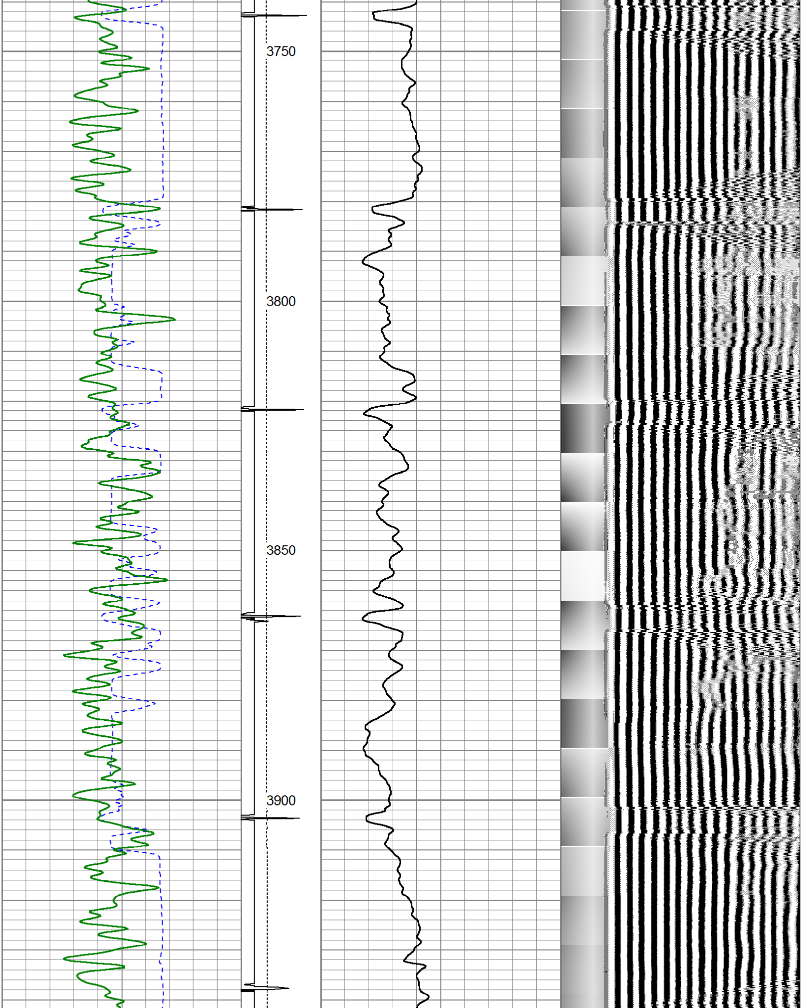
THANK YOU FOR CHOOSING KLX ENERGY SERVICES.
LOG RAN UNDER 0 PSI.

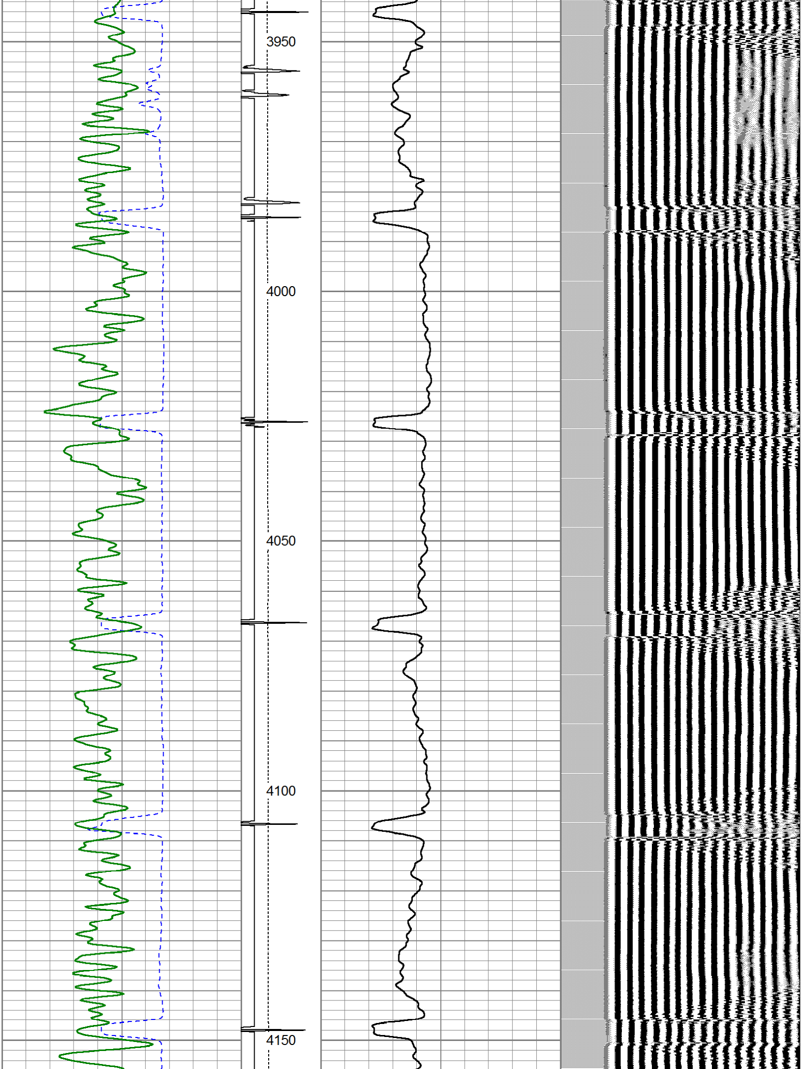
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	3.00
			RBT-PTS275HT (275HT) Probe 2.75" High Temp Radii	14.08	2.75	
TEMP	10.00					
IntTemp	9.35					
WVF3FT	9.33					
WVFCAL	9.33					
WVFS1	9.33					
WVFS2	9.33					
WVFS3	9.33					
WVFS4	9.33					
WVFS5	9.33					
WVFS6	9.33					
WVFS7	9.33					
WVFS8	9.33					
WVF5FT	8.25					
CCL	4.17					
GR	2.50		GR-Probe275dig (080221) Probe 2.75 High Temperature	5.00	2.75	57.00

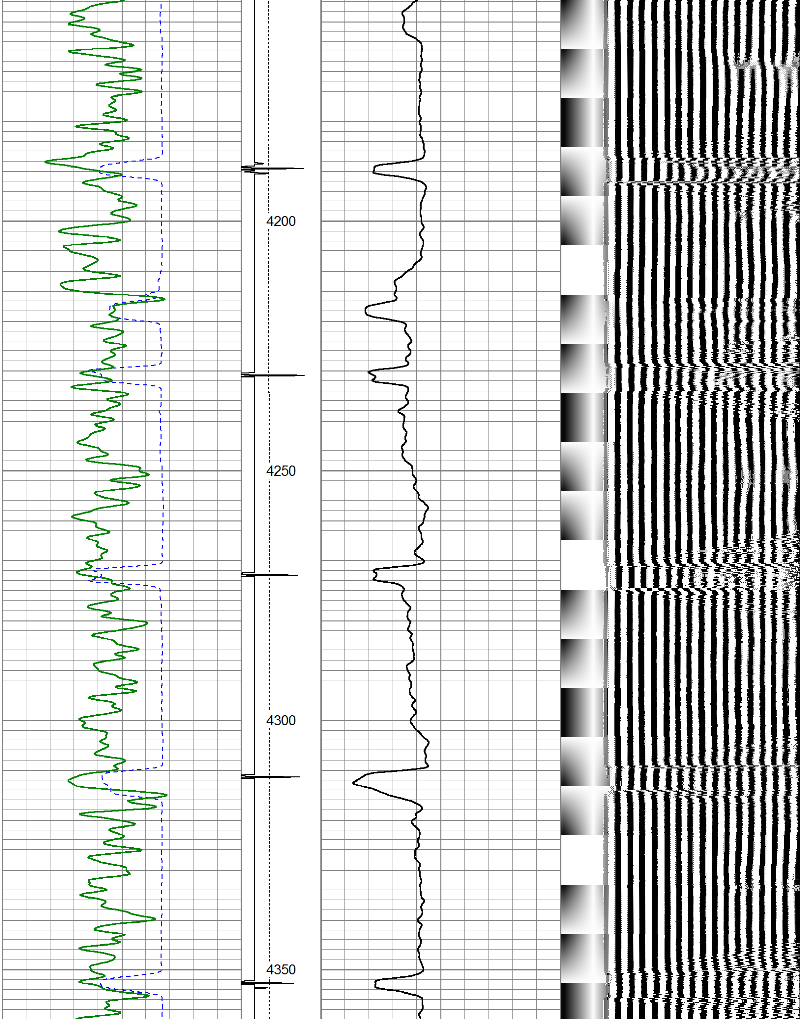
Dataset:	state pronghorn v-29-30xrlnb.db: field/well/run1/pass16
Total Length:	20.08 ft
Total Weight:	60.00 lb
O.D.	2.75 in

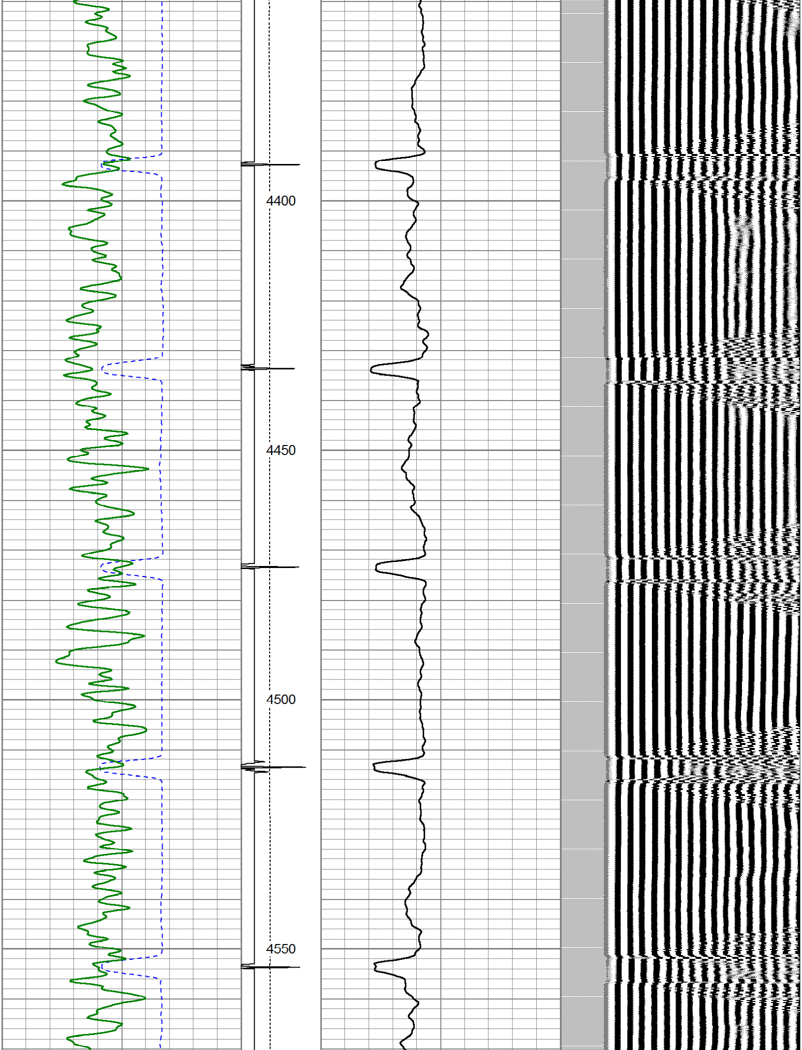
Database File:	state pronghorn v-29-30xrlnb.db
Dataset Pathname:	pass16
Presentation Format:	scbl_dr
Dataset Creation:	Wed Apr 18 15:09:33 2018 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

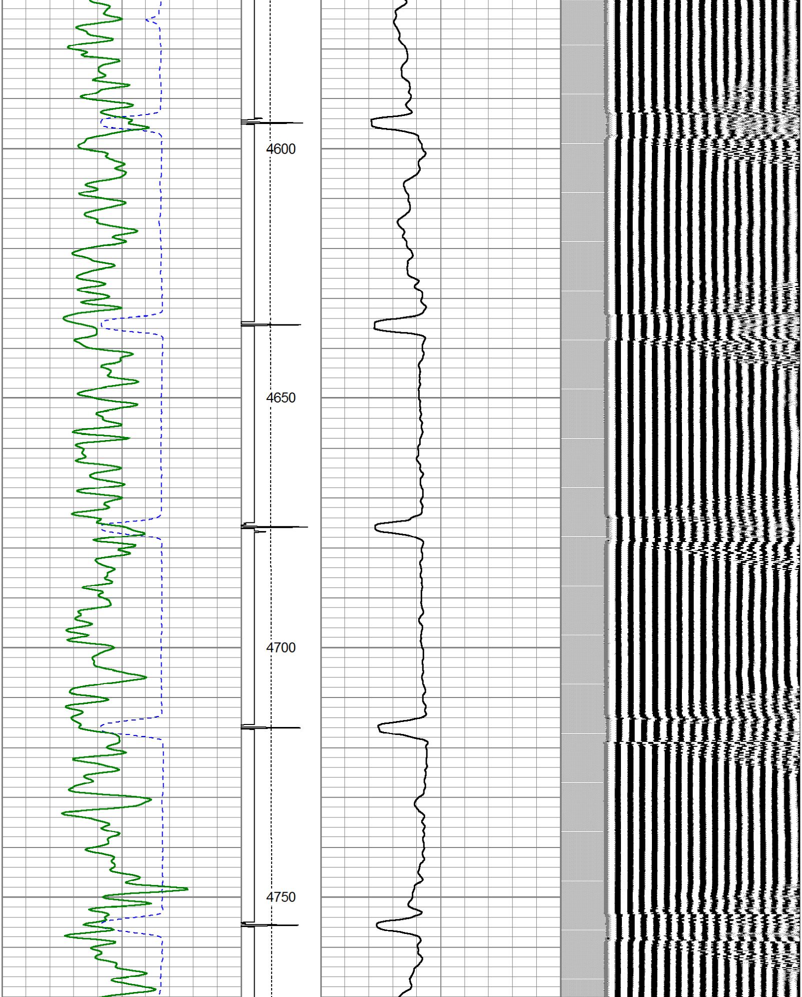


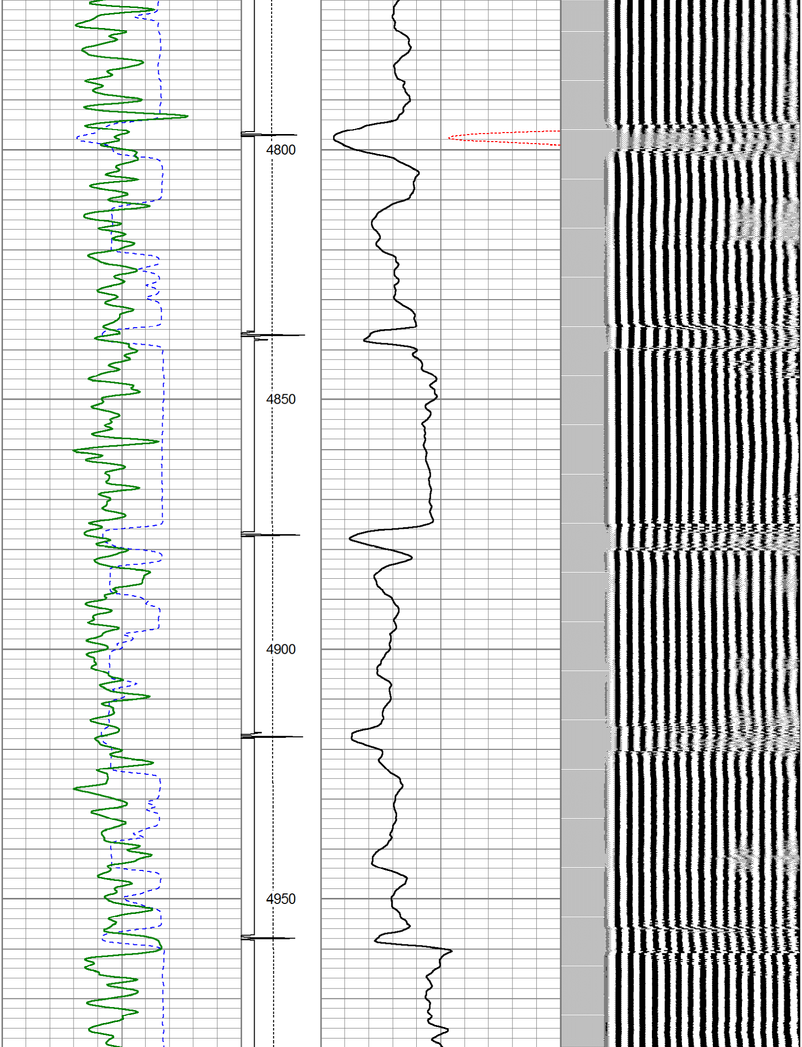


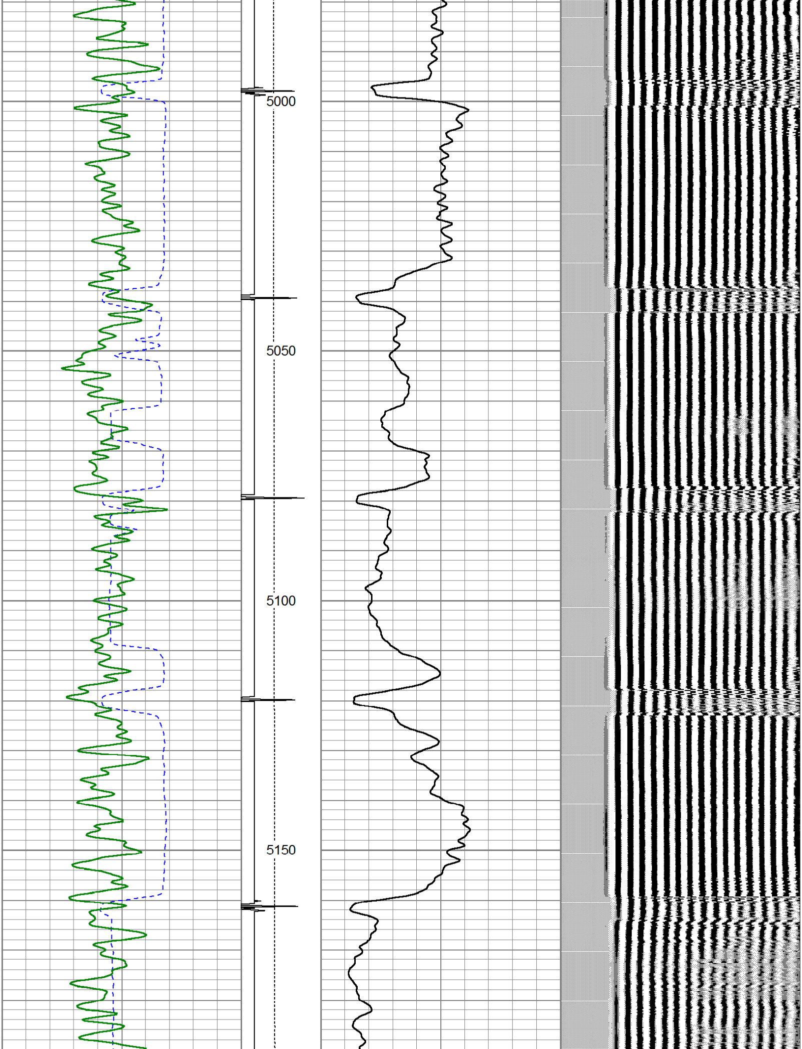


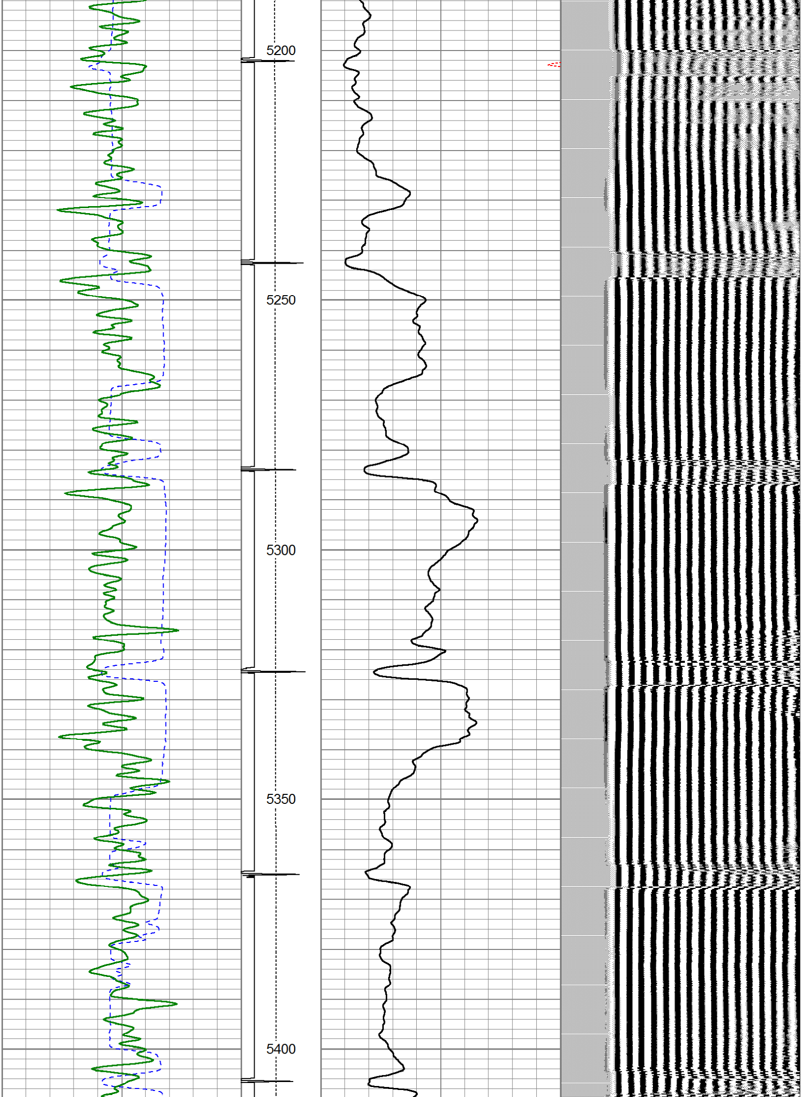


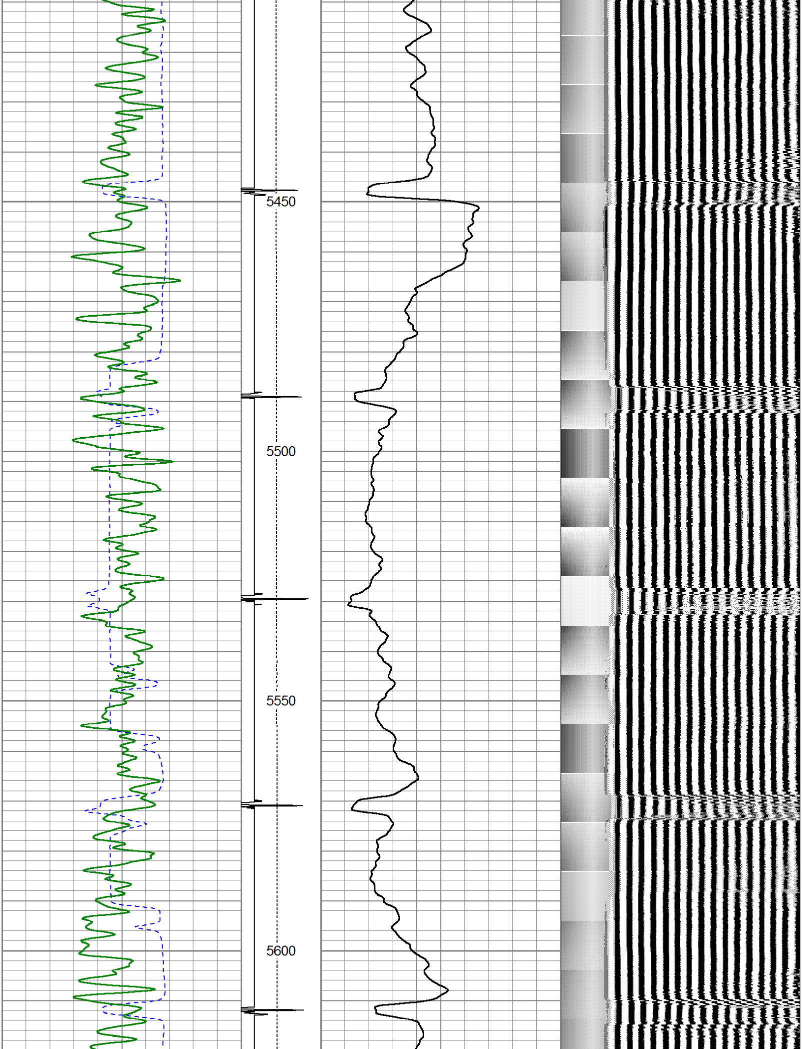


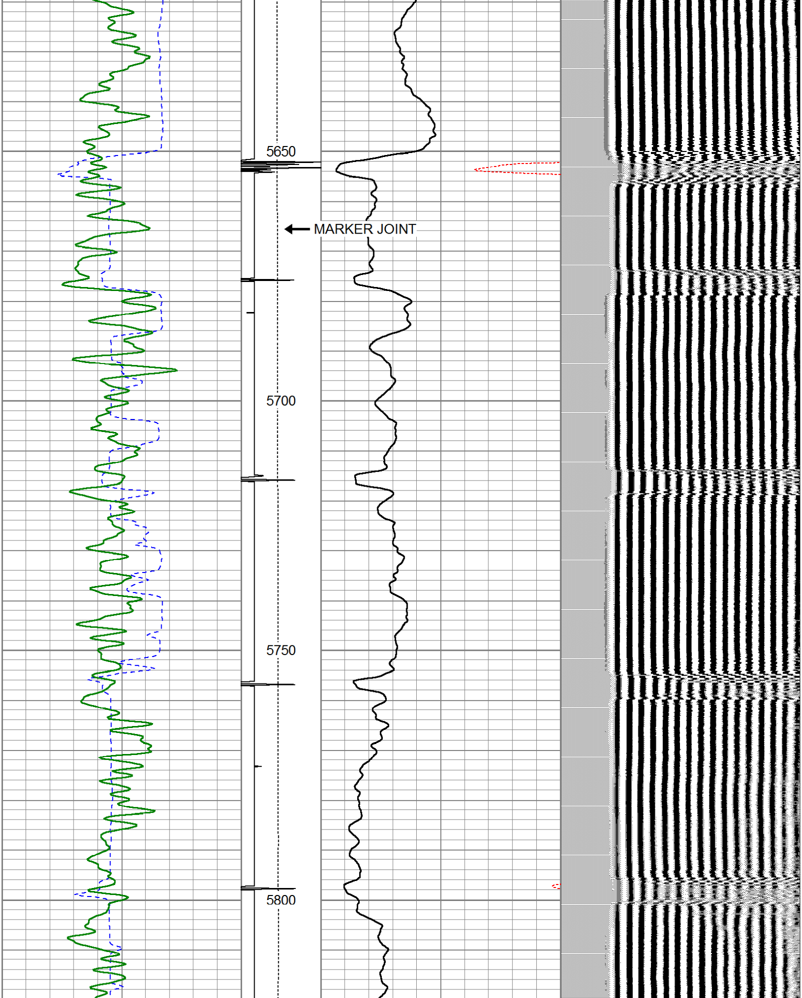


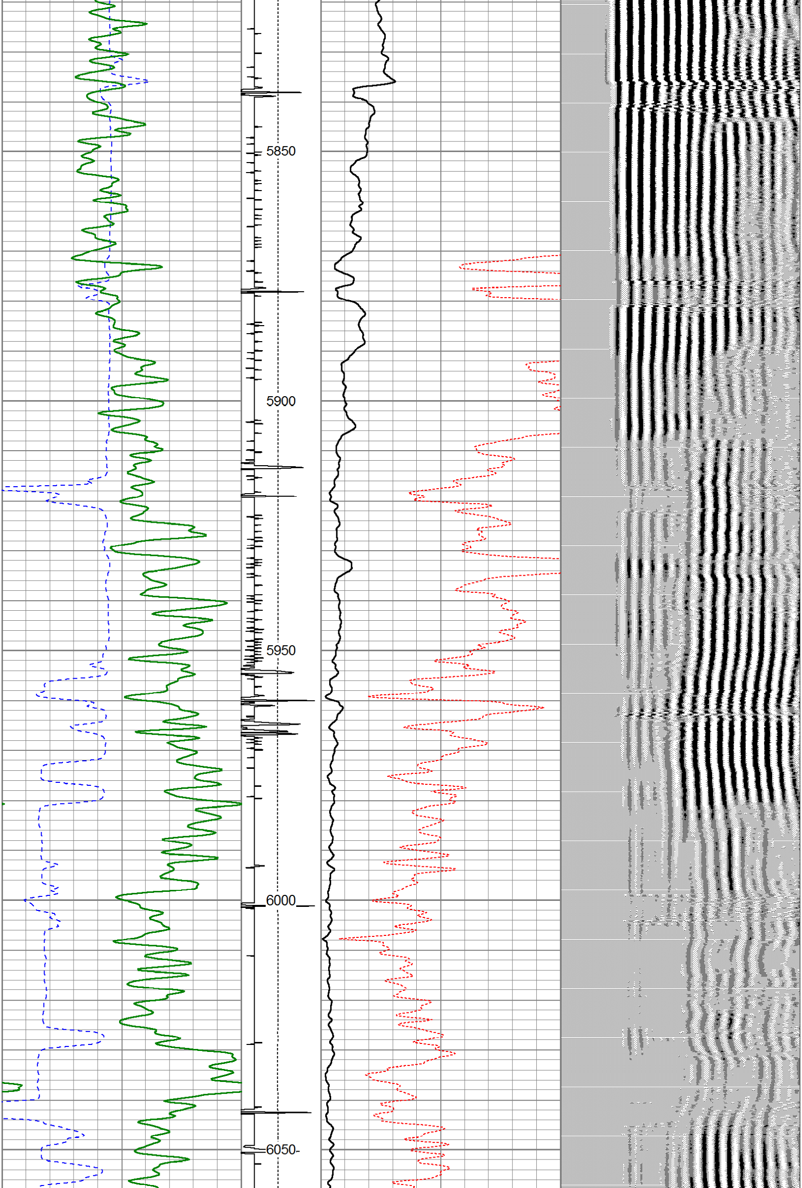


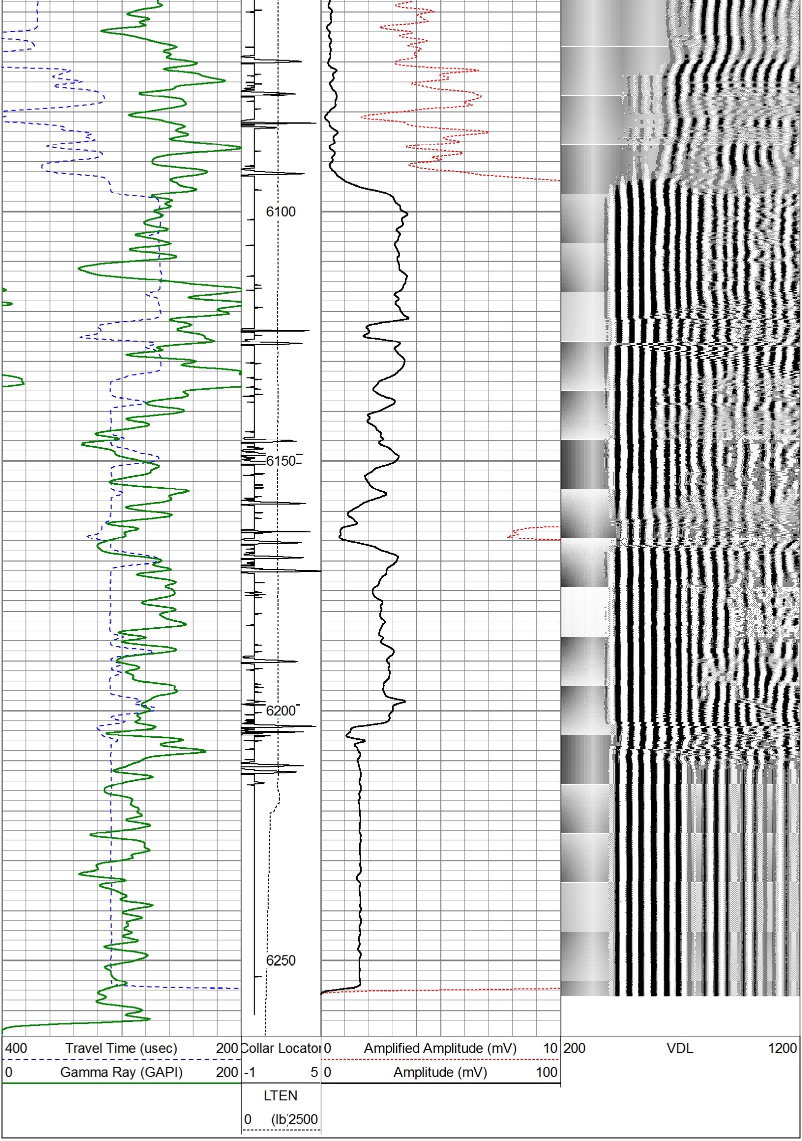






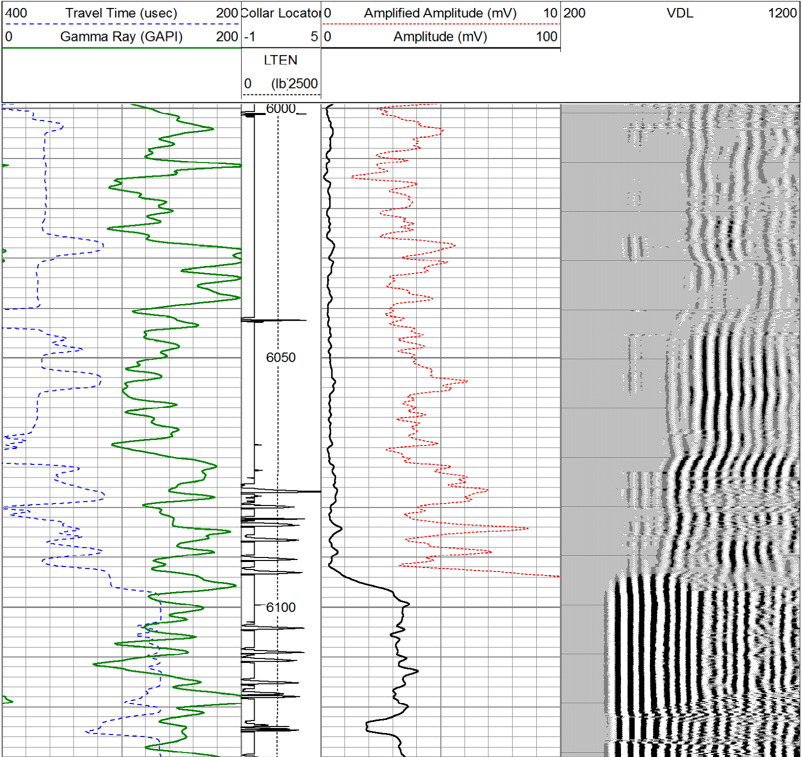


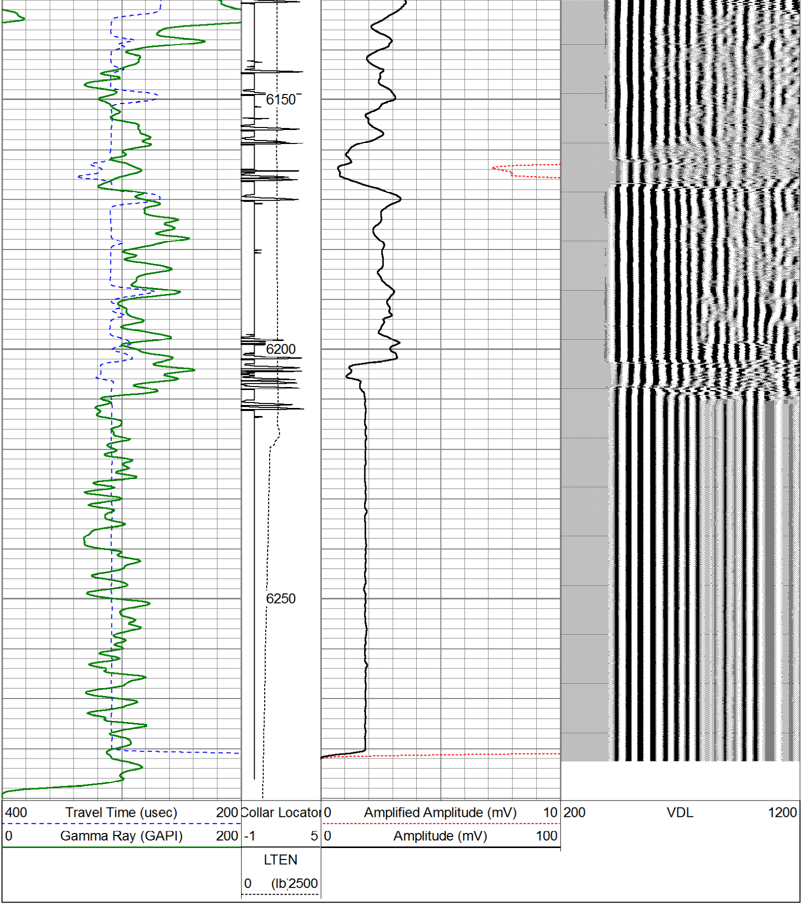




REPEAT PASS

Database File:	state pronghorn v-29-30xrlnb.db
Dataset Pathname:	pass14
Presentation Format:	scbl_dr
Dataset Creation:	Wed Apr 18 15:04:25 2018 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240





Calibration Report

Database File: state pronghorn v-29-30xrlnb.db
Dataset Pathname: pass16
Dataset Creation: Wed Apr 18 15:09:33 2018 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 080221

SHOP CALIBRATION

Thu Sep 08 10:58:32 2016

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		1.0000			GAPI/cps

PRIMARY VERIFICATION

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

Segmented Cement Bond Log Calibration Report

Serial Number:	275HT	
Tool Model:	PTS275HT	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	624.596	ft

Master Calibration, performed Wed Apr 18 14:32:28 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.006	0.821	0.250	71.921	87.965	-0.261
CAL	0.003	0.926				
5'	0.002	0.674	0.250	71.921	106.640	0.018
SUM						
S1	0.006	0.824	0.000	71.920	87.866	-0.485
S2	0.004	0.817	0.000	71.920	88.512	-0.355
S3	0.005	0.823	0.000	71.920	87.934	-0.418
S4	0.002	0.827	0.000	71.920	87.218	-0.168
S5	0.003	0.832	0.000	71.920	86.751	-0.255
S6	0.005	0.811	0.000	71.920	89.245	-0.484
S7	0.002	0.790	0.000	71.920	91.307	-0.227
S8	0.003	0.779	0.000	71.920	92.744	-0.293

Internal Reference Calibration, performed Wed Oct 27 08:00:55 2010:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.003	0.926	1.000	0.000

Air Zero Calibration, performed Fri Apr 15 09:25:27 2011:

	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:	275HT			
Tool Model:	PTS275HT			
Performed:	Sun Jun 13 13:33:21 1993			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	1.00	degF	1.00	cps
Gain:	1.00			
Offset:	0.00			
Delta Spacing	1			