KLX Energy Services

V.D.L. C.C.L. GAMMA RAY CEMENT BOND LOG

Company	BONANZA CREEK ENERGY
Well	STATE LONGHORN D14-11-12 XRLNB
Field	WATTENBERG
County	WELD
State	COLORADO
Country	USA

Company BONANZA CREEK ENERGY
Well STATE LONGHORN D14-11-12 XRLNB
Field WATTENBERG
County WELD
State COLORADO Country USA

Location: API #: 05-123-45086
629' FSL X 674' FWL
SEC 11 TWP 3N RGE 63W

Other Services
N/A

Permanent Datum	GL	Elevation	4782'
Log Measured From	KB	17'	
Drilling Measured From	KB		

Elevation
K.B. 4799'
D.F. 4798'
G.L. 4782'

Date	6-OCTOBER-2017
Run Number	ONE
Depth Driller	16,664'
Depth Logger	6530'
Bottom Logged Interval	6518'
Top Log Interval	SURFACE
Open Hole Size	N/A
Type Fluid	WATER
Density / Viscosity	8.34 PPG
Max. Recorded Temp.	N/A
Estimated Cement Top	118'
Time Well Ready	ROA
Time Logger on Bottom	14:45
Equipment Number	411468
Location	PLATTEVILLE, CO
Recorded By	R. AZEVEDO
Witnessed By	K. 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	1624'
Prot. String				
Production String	5.5"	17#	SURFACE	15449'
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

LOG RAN AS PER CUSTOMER REQUEST
DEPTH REFERENCE TO 17' KB
LOG RAN WITH 0 PSI SURFACE INDUCED PRESSURE
LOG RAN FROM AS DEEP AS POSSIBLE TO SURFACE
NO DEBRIS FOUND UPON RETRIEVAL OF BOND TOOLS

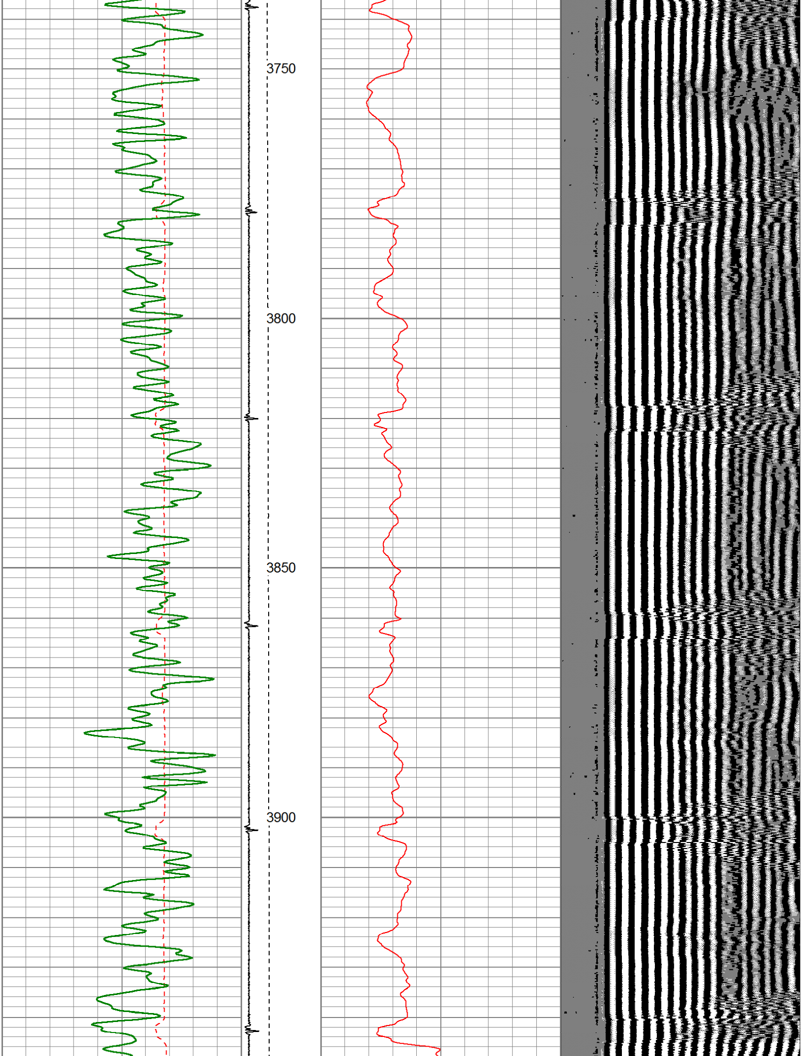
THANK YOU FOR CHOOSING KLX ENERGY SERVICES

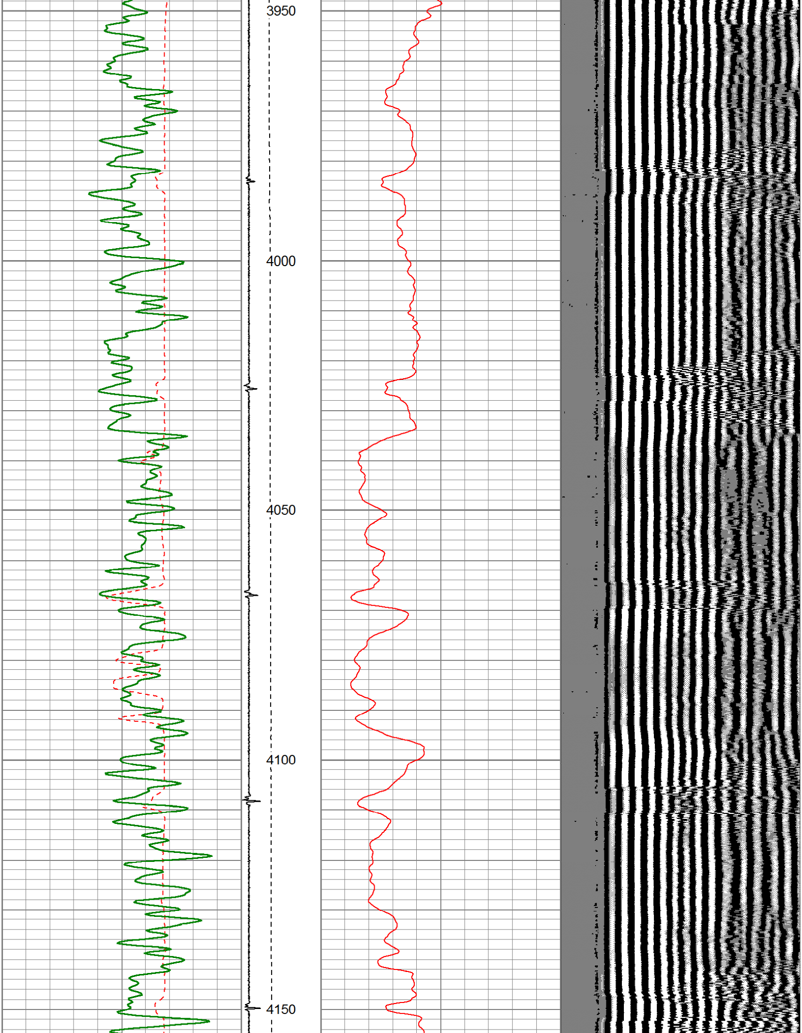
KLX Energy Services

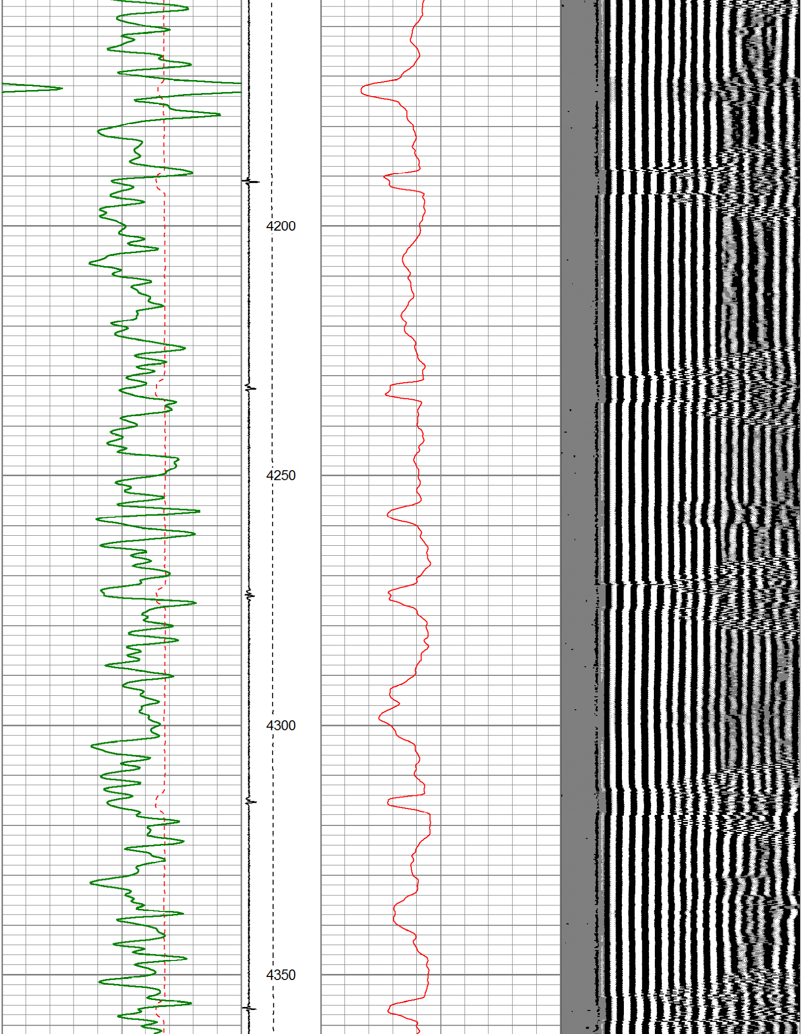
5.5" MAIN PASS

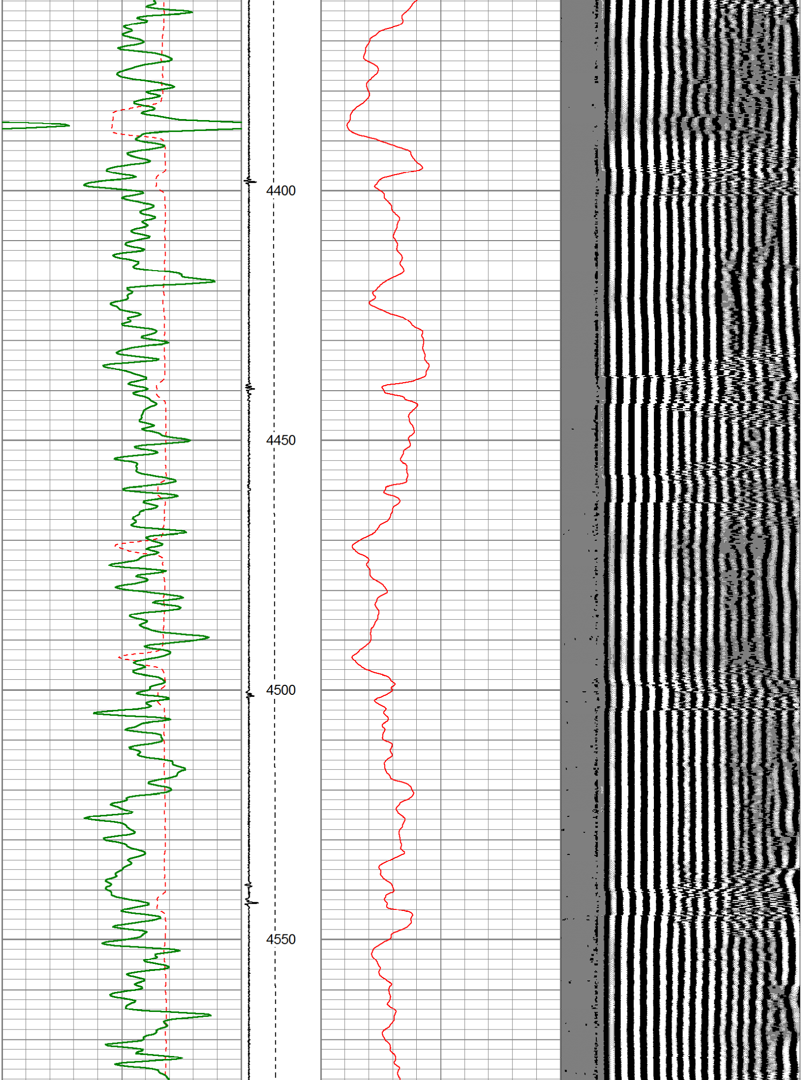
LOG RAN WITH 0 PSI SURFACE INDUCED PRESSURE

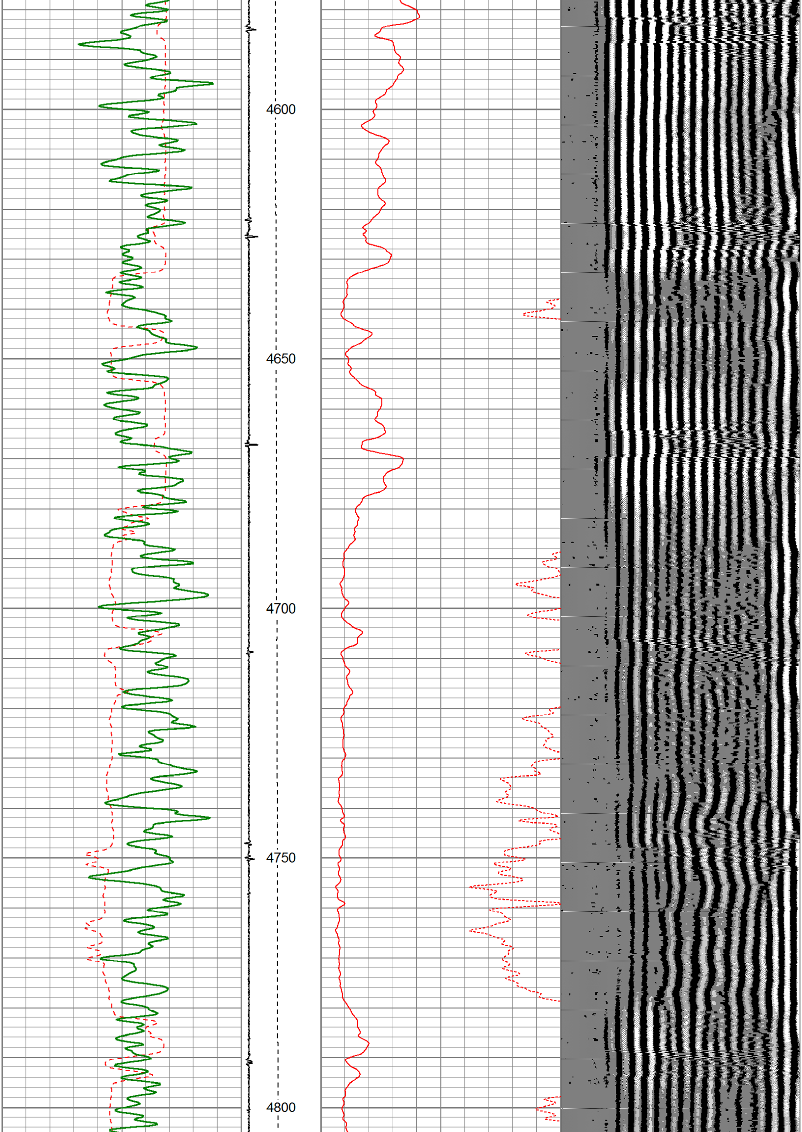
Database File:	state longhorn d14-11-12 xrlnb cbl.db
Dataset Pathname:	pass2
Presentation Format:	cbl_drs
Dataset Creation:	Fri Oct 06 14:37:34 2017 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

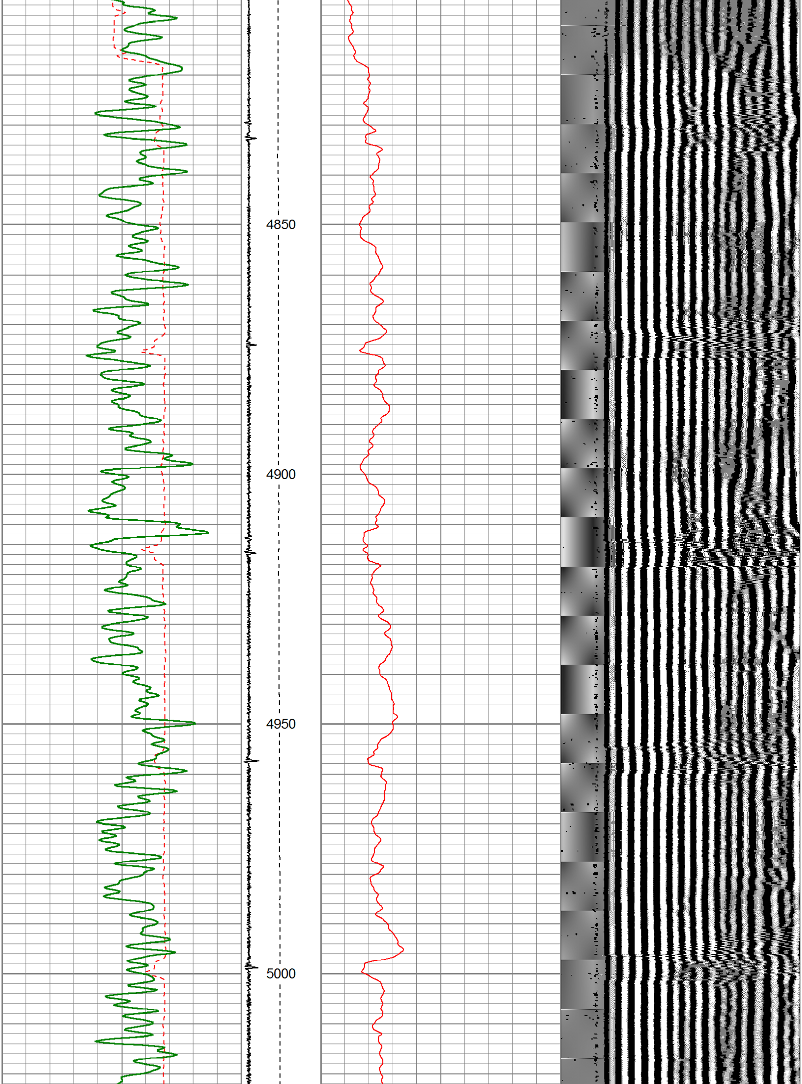


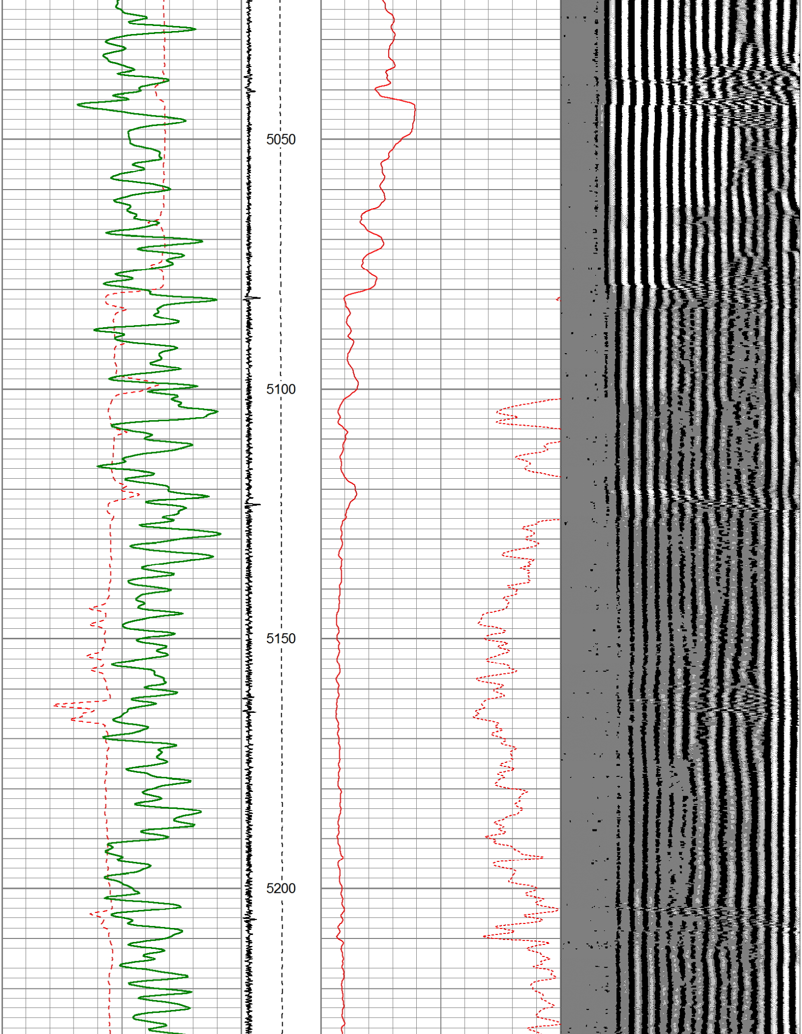


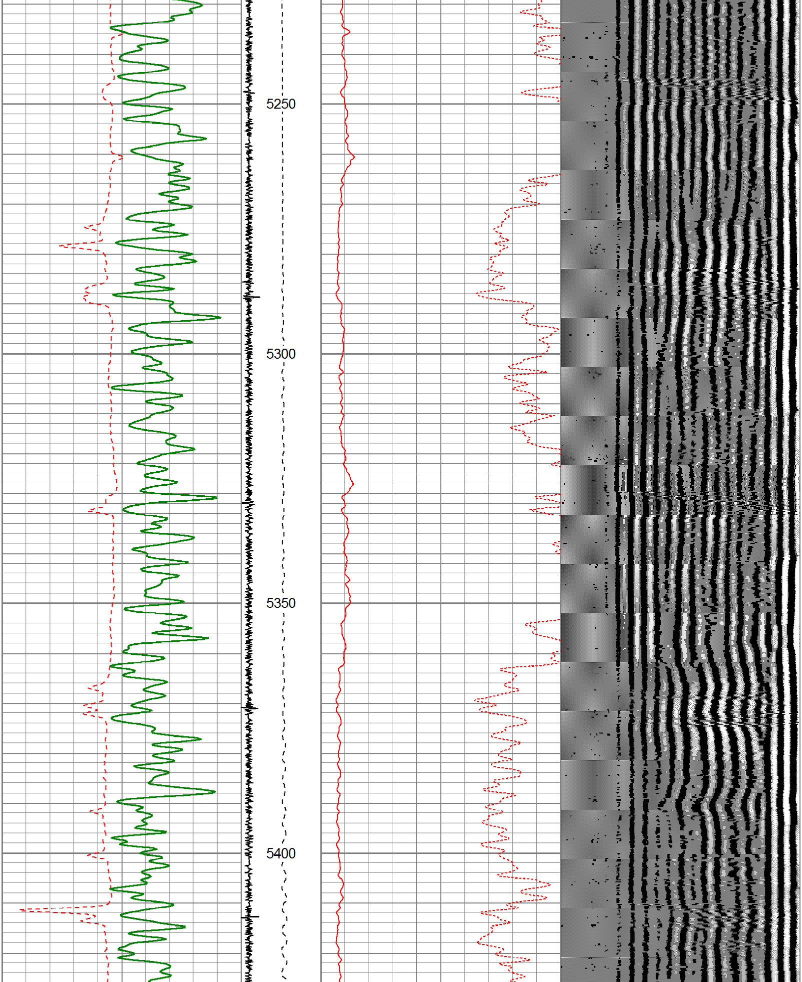


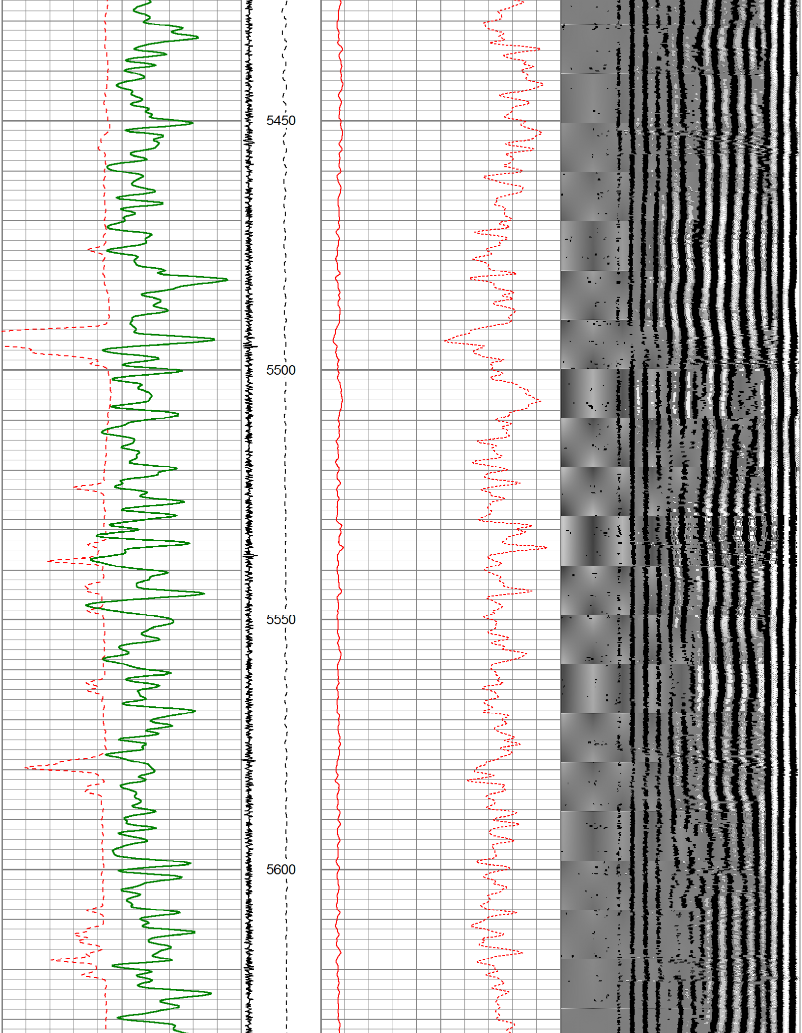


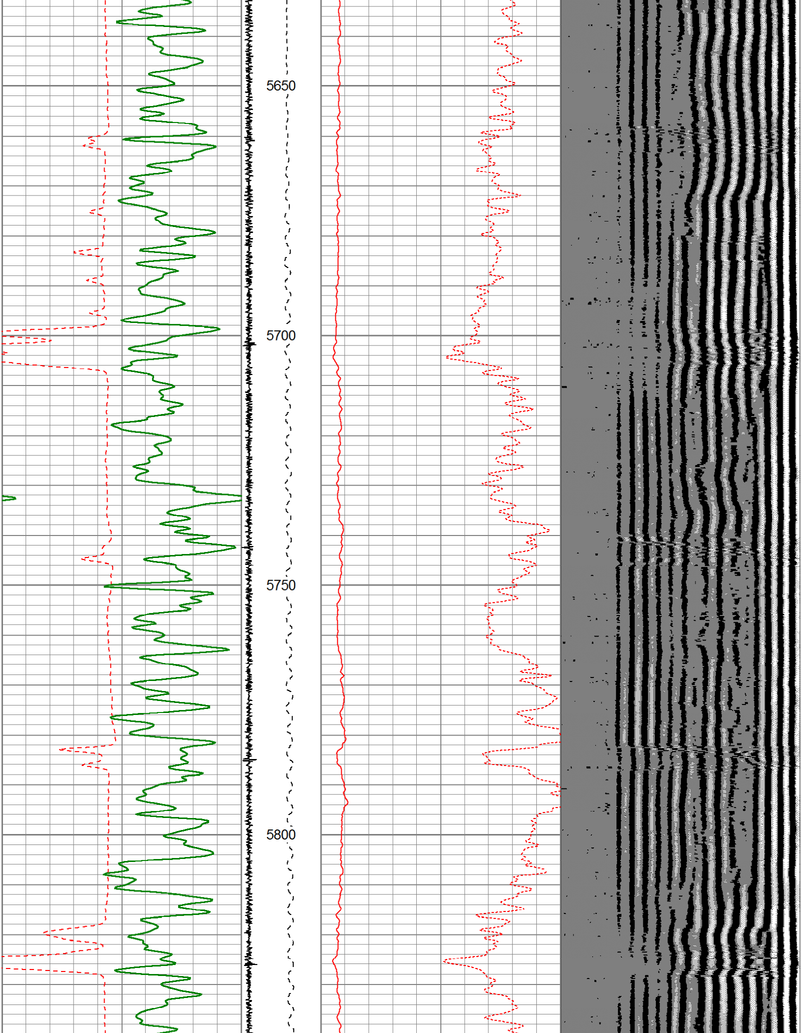


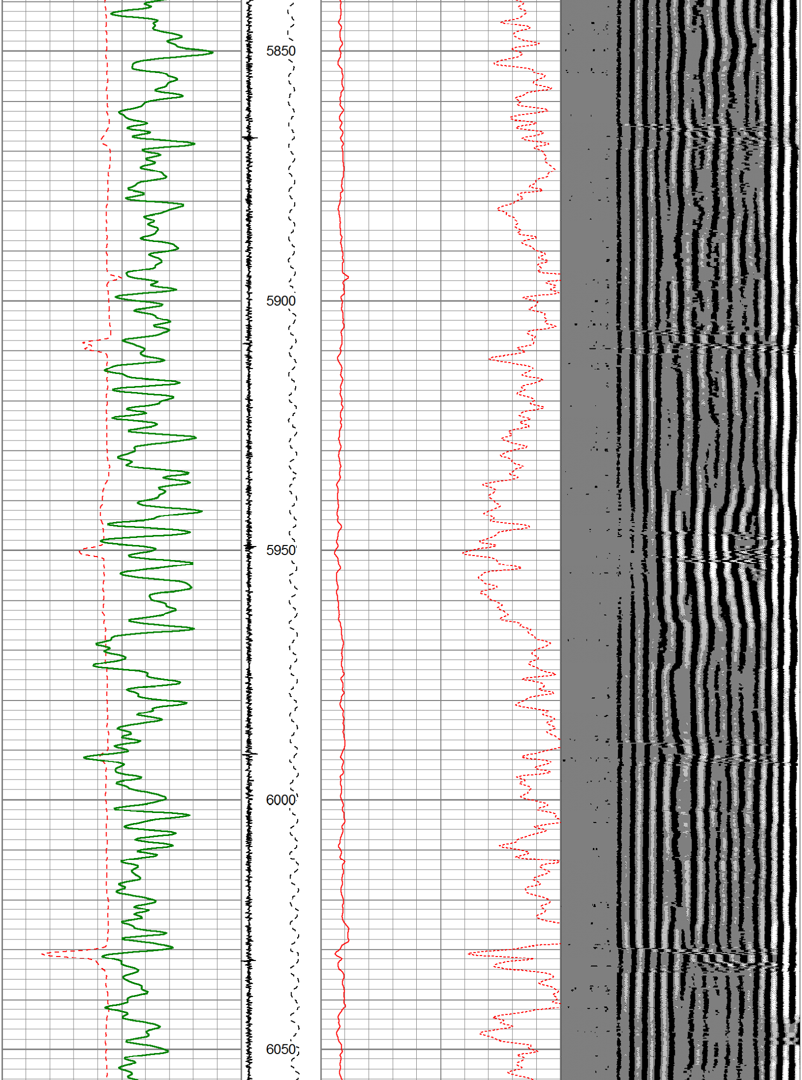


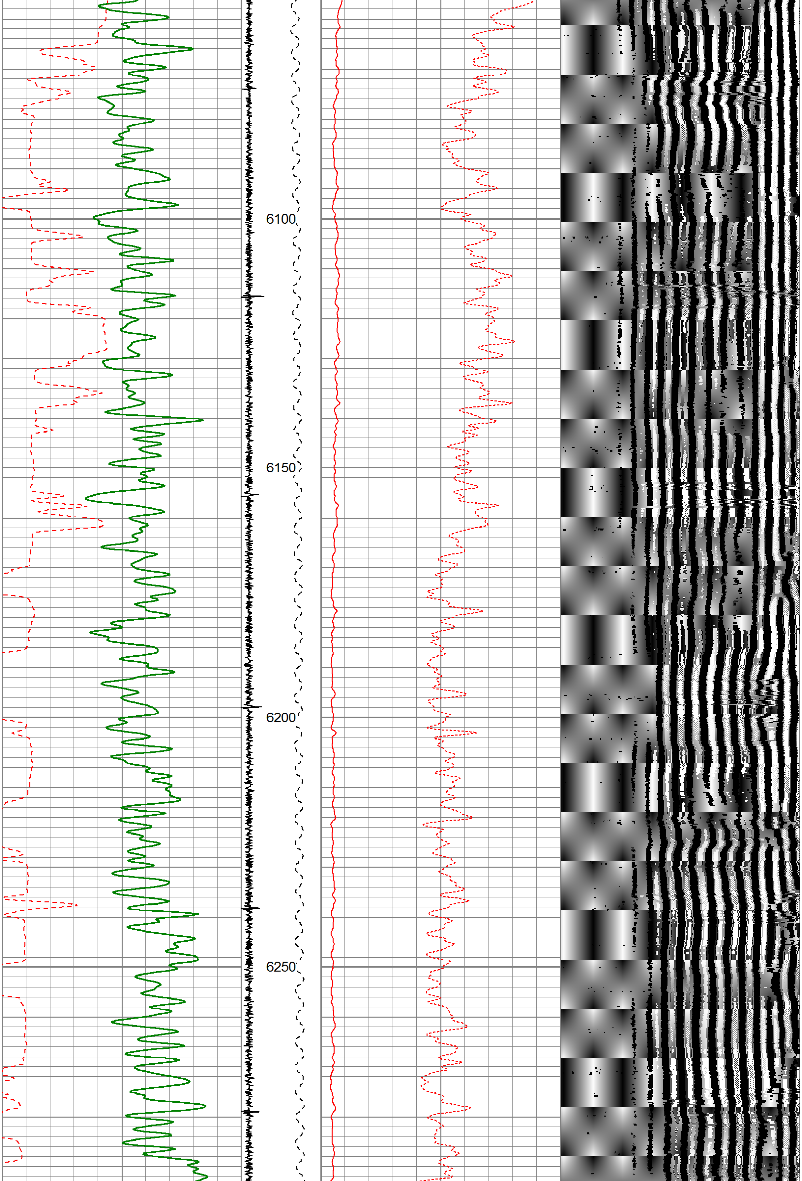


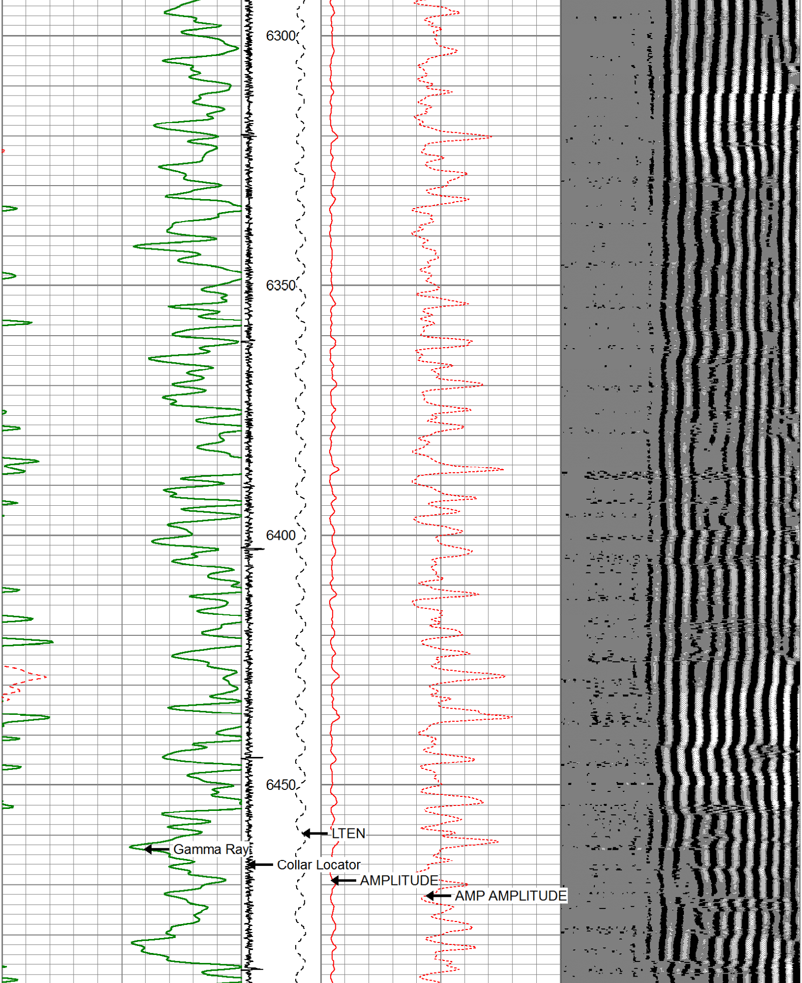


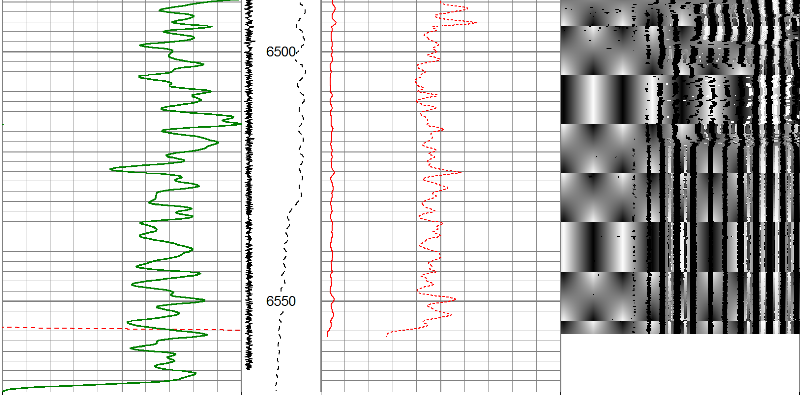












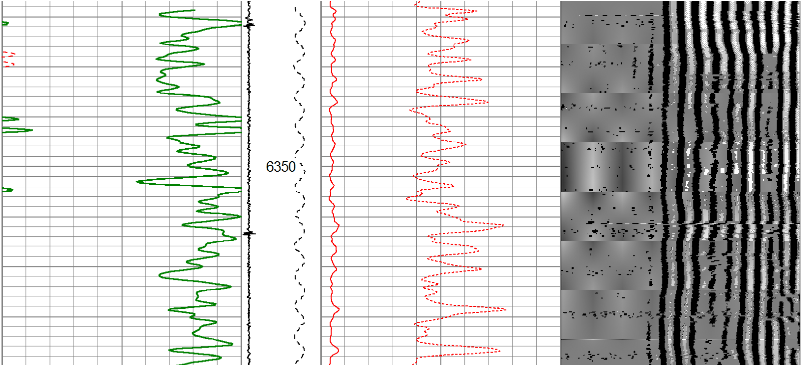
400 TRAVEL TIME (usec) 200	Collar Locator	0 AMP AMPLITUDE (mV) 10	200 VDL 1200
0 Gamma Ray 150	-1 9	0 AMPLITUDE (mV) 100	
	LTEN 0 (lb) 2000		

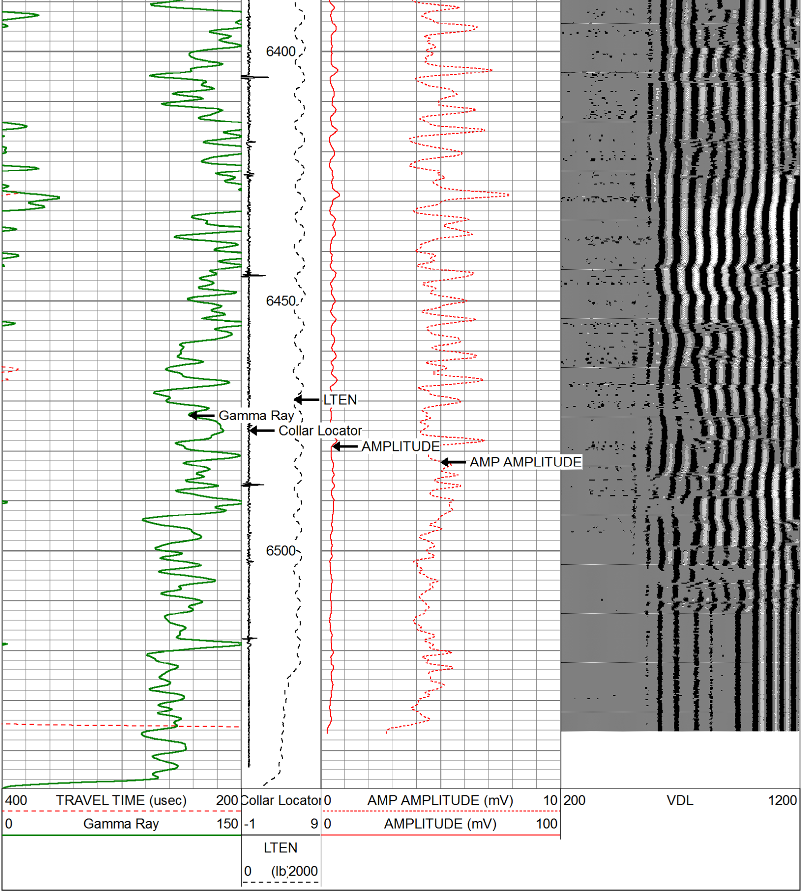
5.5" REPEAT PASS

LOG RAN UNDER 0 PSI SURFACE INDUCED PRESSURE

Database File:	state longhorn d14-11-12 xrlnb cbl.db
Dataset Pathname:	pass1
Presentation Format:	cbl_drs
Dataset Creation:	Fri Oct 06 14:33:04 2017 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

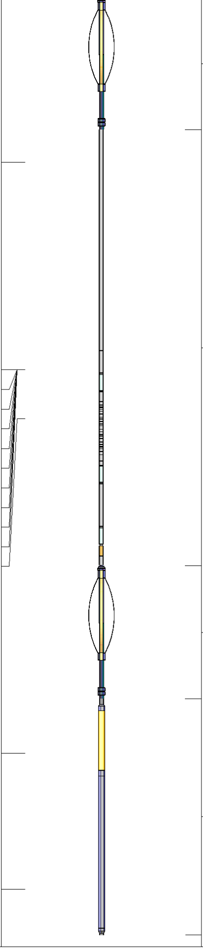
400 TRAVEL TIME (usec) 200	Collar Locator	0 AMP AMPLITUDE (mV) 10	200 VDL 1200
0 Gamma Ray 150	-1 9	0 AMPLITUDE (mV) 100	
	LTEN 0 (lb) 2000		





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	3.00

HEADVOLT	17.03
WVF3FT	12.45
WVFCAL	12.45
WVFS1	12.45
WVFS2	12.45
WVFS3	12.45
WVFS4	12.45
WVFS5	12.45
WVFS6	12.45
WVFS7	12.45
WVFS8	12.45
WVF5FT	11.37
CCL	4.00
GR	1.00



PT16875 1 11/16 Cemtralizer	2.92	1.69	5.00
RBT-PTS170 (FW1705-069) PROBE 1-11/16" RADII BOND TOOL	9.62	1.70	55.00
PT16875 1 11/16 Cemtralizer	2.92	1.69	5.00
GR_CCL-SDS (FW1703-011)	5.20	1.70	35.00

Dataset:	state longhorn d14-11-12 xrlnb cbl.db: field/well/run1/pass2
Total Length:	21.65 ft
Total Weight:	103.00 lb
O.D.	1.70 in

Calibration Report

Database File:	state longhorn d14-11-12 xrlnb cbl.db
Dataset Pathname:	pass2
Dataset Creation:	Fri Oct 06 14:37:34 2017 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Serial Number:	FW1703-011	
Tool Model:	SDS	
Performed:	Tue Jul 11 16:35:19 2017	
Calibrator Value:	1.0	
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1705-069	
Tool Model:	PTS170	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	540.529	ft

Master Calibration, performed Fri Oct 06 14:32:58 2017:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.029	0.993	0.700	71.921	69.663	2.741
CAL	0.031	0.992				
5'	0.019	1.094	0.700	71.921	66.225	-0.534
SUM						
S1	0.055	1.001	0.000	100.000	105.751	-5.816
S2	0.008	0.972	0.000	100.000	103.762	-0.814
S3	0.025	0.964	0.000	100.000	106.457	-2.674
S4	0.022	0.983	0.000	100.000	104.033	-2.299
S5	0.033	0.996	0.000	100.000	103.803	-3.384
S6	0.011	0.996	0.000	100.000	101.521	-1.086
S7	0.045	1.010	0.000	100.000	103.644	-4.660
S8	0.049	0.998	0.000	100.000	105.325	-5.147

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.031	0.992	1.000	0.000

Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

	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

KLX Energy Services

Company	BONANZA CREEK ENERGY		
Well	STATE LONGHORN D14-11-12 XRLNB		
Field	WATTENBERG		
County	WELD		
State	COLORADO	Country	USA