RENEGADE SERVICES

Company	XTO ENERGY
Well	PLU 26 BRIDGE FEDERAL SWD #1
Field	DEVONIAN SWD
County	EDDY
State	NM

Radial Cement Bond Gamma Ray/CCL Log

Company XTO ENERGY
Well PLU 26 BRIDGE FEDERAL SWD #1
Field DEVONIAN SWD
County EDDY State NM

Location: API # : 30-012-46706
N/A
SEC TWP RGE

Other Services
N/A

Permanent Datum GROUND LEVEL Elevation 3348'
Log Measured From 33' ABOVE PERMANENT DATUM
Drilling Measured From KELLY BUSHING

Elevation
K.B. 3348'
D.F. 3347'
G.L. 3315'

Date	09/10/2020
Run Number	ONE
Depth Driller	17908'
Depth Logger	16575'
Bottom Logged Interval	16575'
Top Log Interval	11000'
Open Hole Size	N/A
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	220.5 DEG
Estimated Cement Top	14260'
Time Well Ready	ROA
Time Logger on Bottom	2:10 AM
Equipment Number	HU 177
Location	ANDREWS, TX
Recorded By	J. TREVINO
Witnessed By	T. BENOIT

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	18 5/8"	87.5#	SURFACE	1336'
Prot. String	13 3/8"	68#	SURFACE	3888'
Production String	9 5/8"	53.5#	SURFACE	11626'
Liner	7"	32#	11230'	16655'

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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.

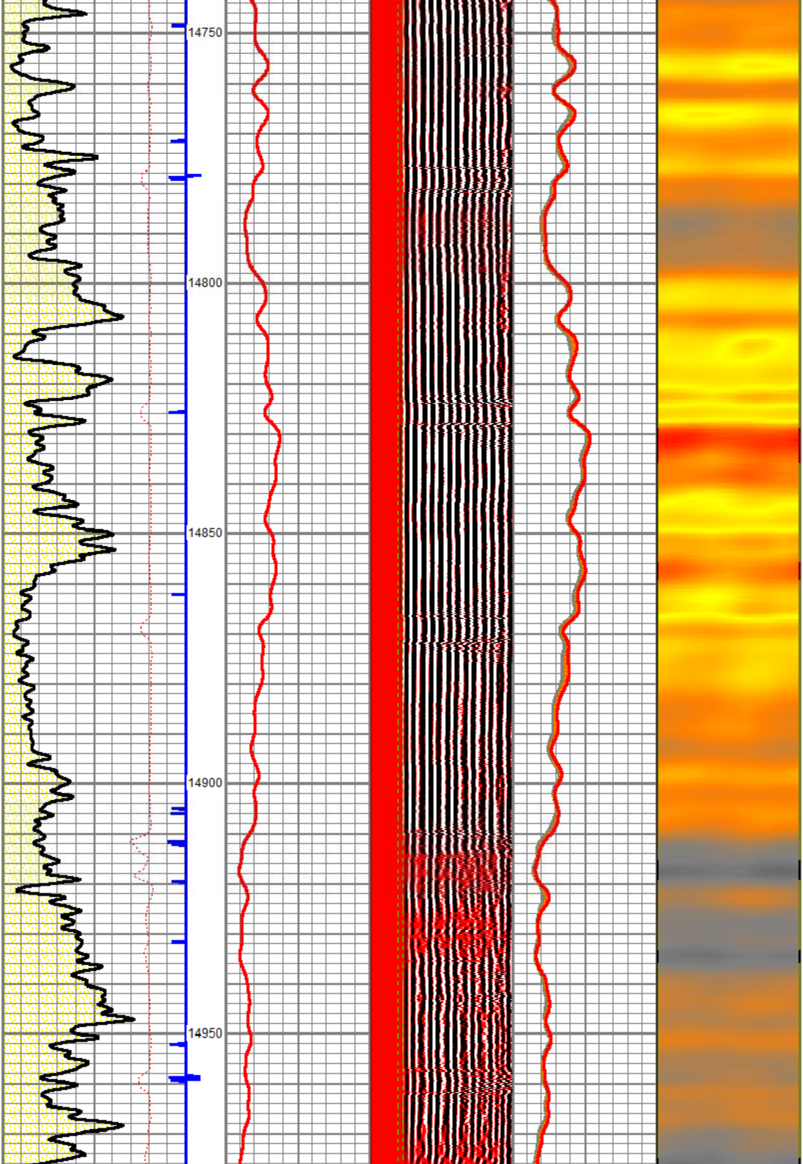
Comments

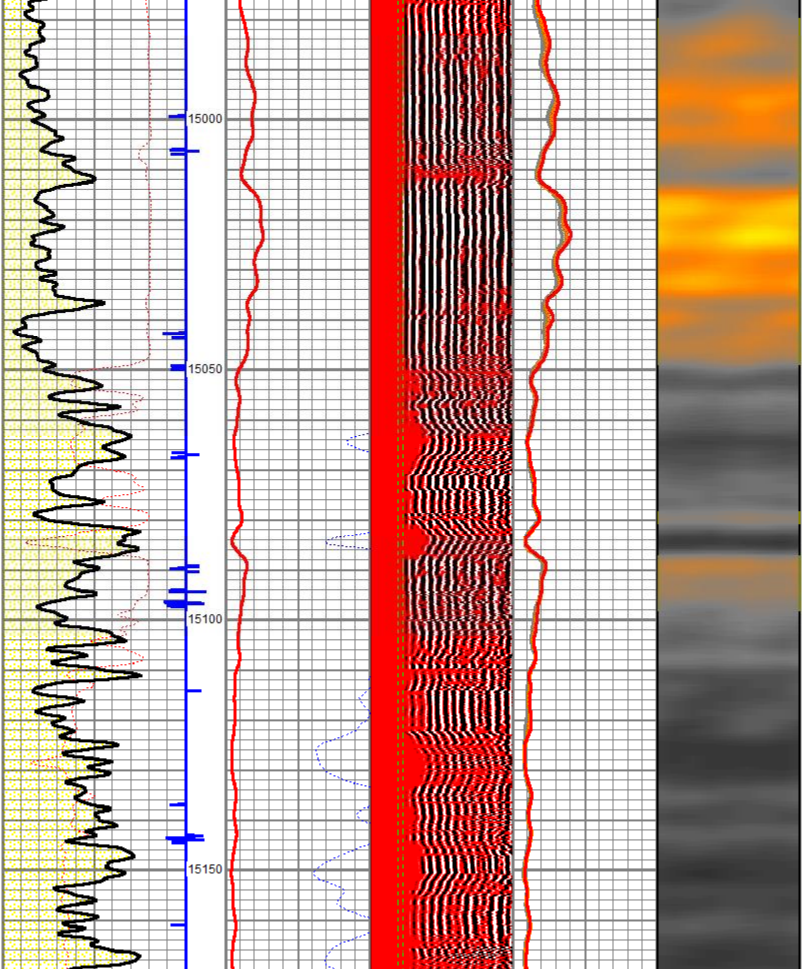
THIS LOG WAS DONE ON RENEGADE WIRELINE
33' KB

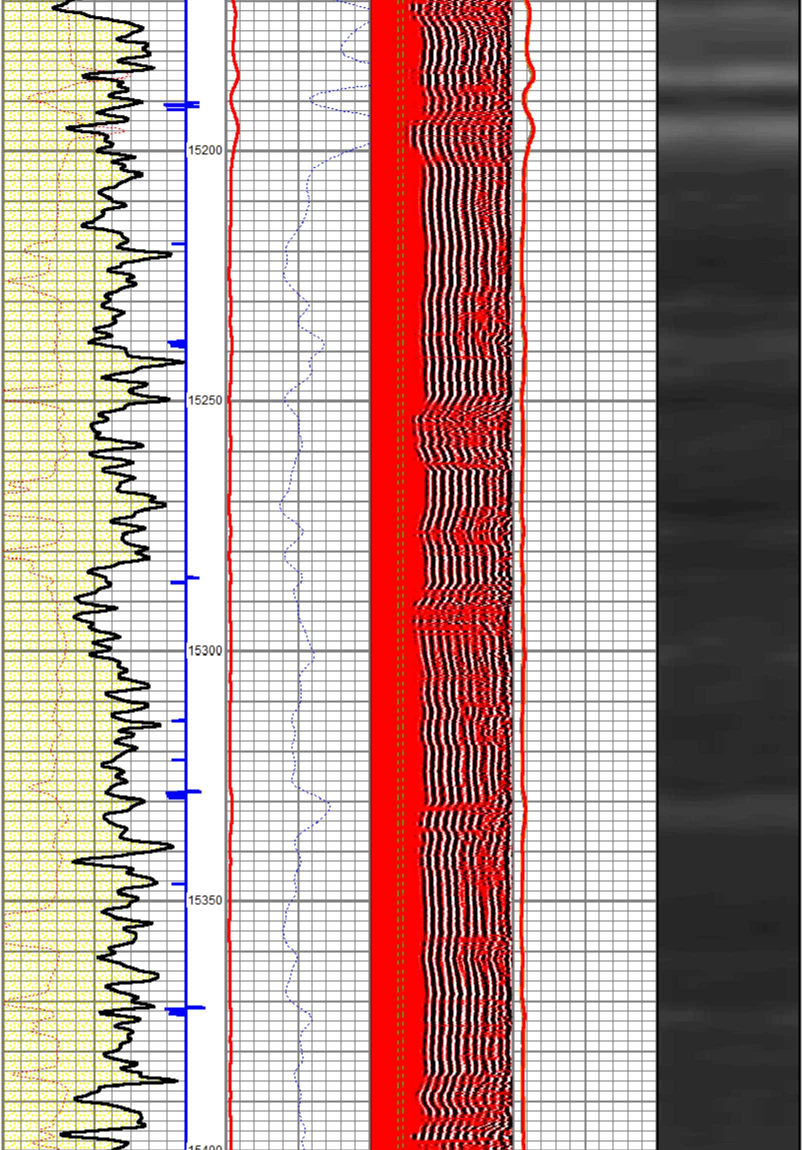
RENEGADE SERVICES

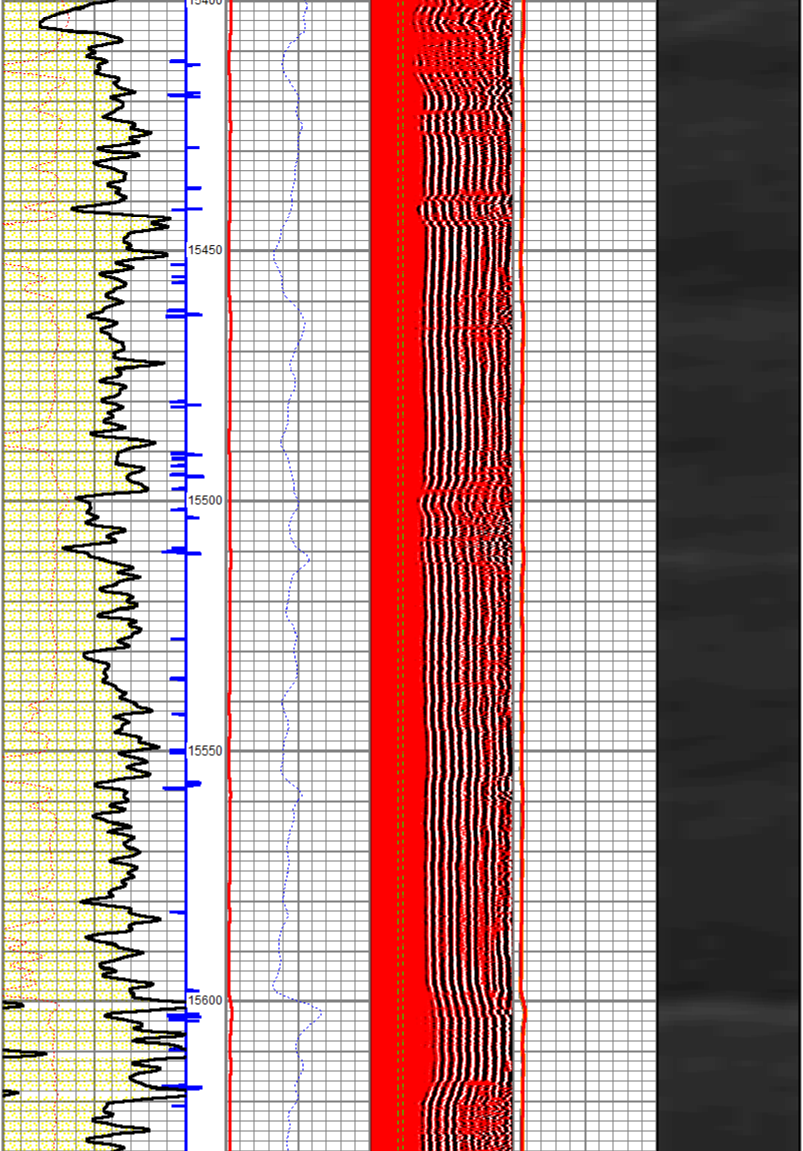
Main Pass (0 psi)

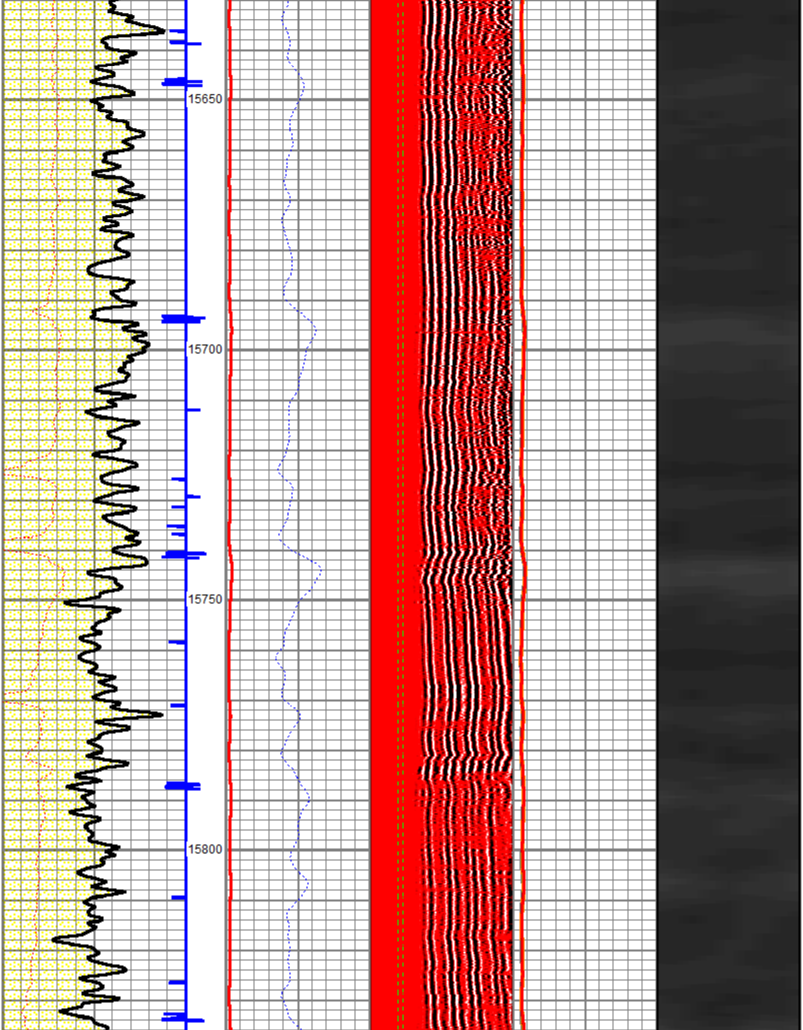
Database File	xto plu 26 bridge fed 1 swd.db
Dataset Pathname	merge3
Presentation Format	rrcbl_mx
Dataset Creation	Thu Sep 10 06:43:28 2020
Charted by	Depth in Feet scaled 1:240

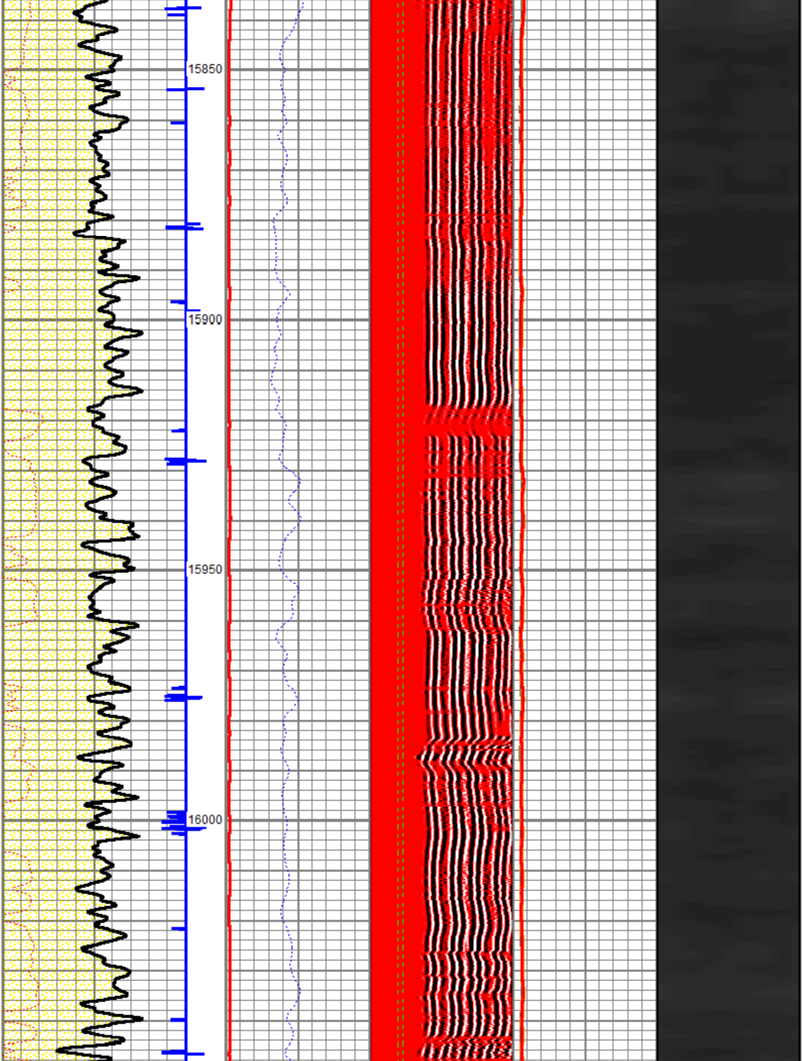


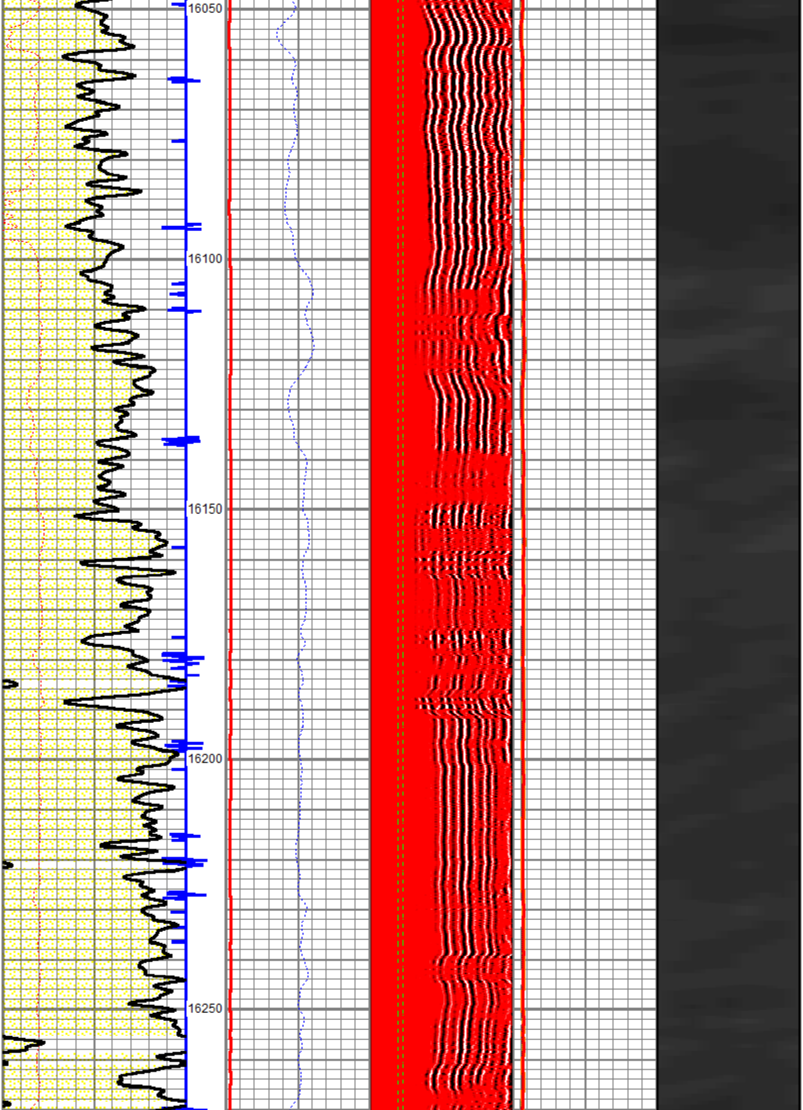


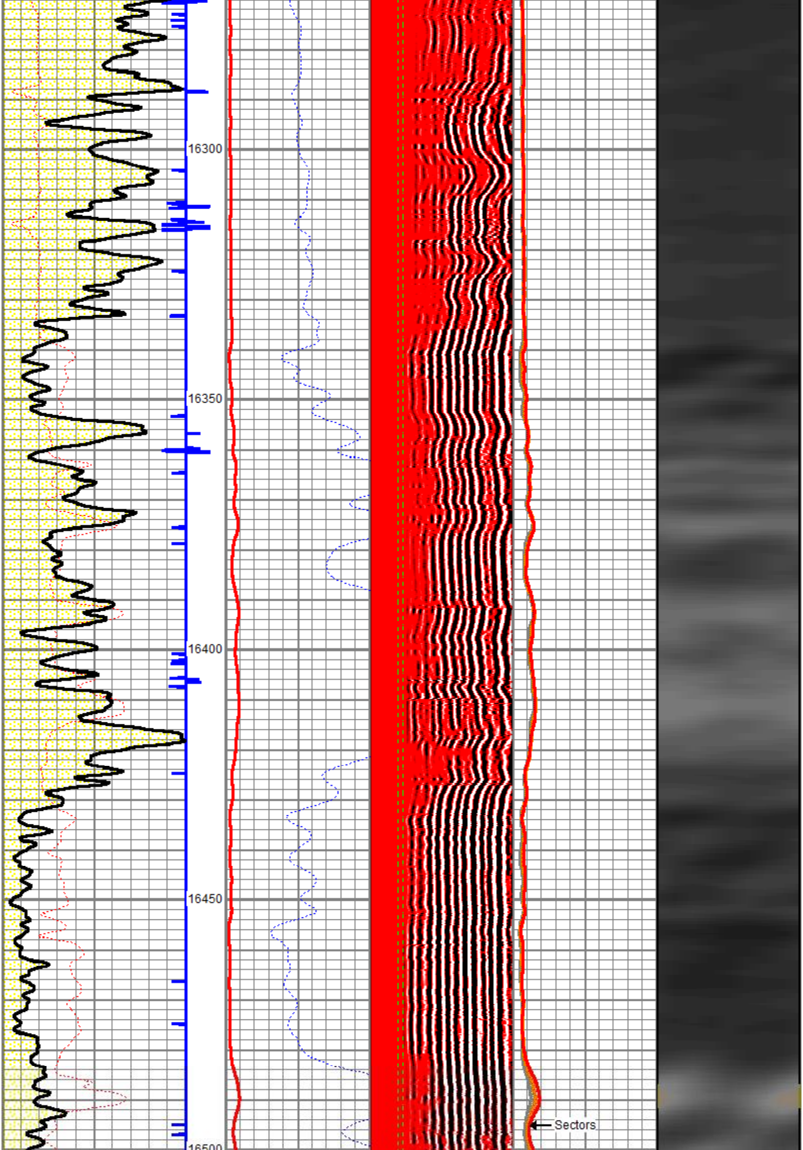


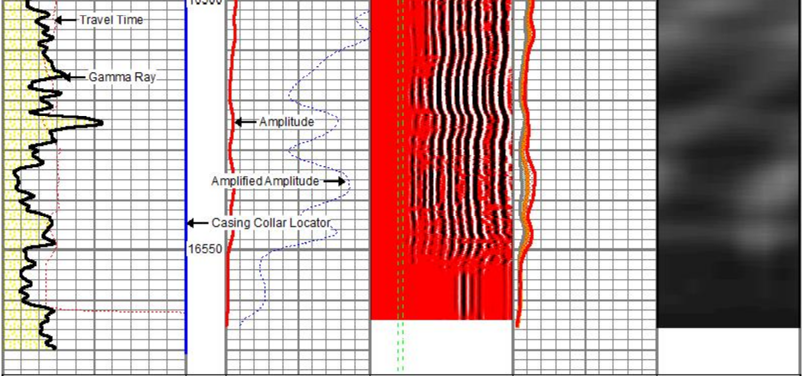












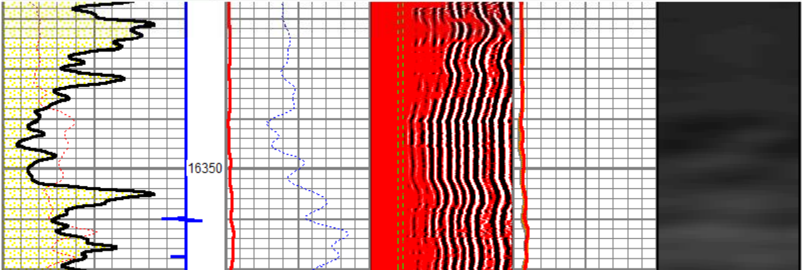
366 TT (usec) 266		0 Amplitude (mV) 150	200 VDL (usec) 1200	-5 AMPMIN 150	Cement Map
0 GR (GAPI) 150		Amplified Amplitude		-5 AMPAVG 150	
0 LTEN (lb) 2000		0 (mV) 10	Free Pipe Gate	-5 AMPMAX 150	
	CCL				

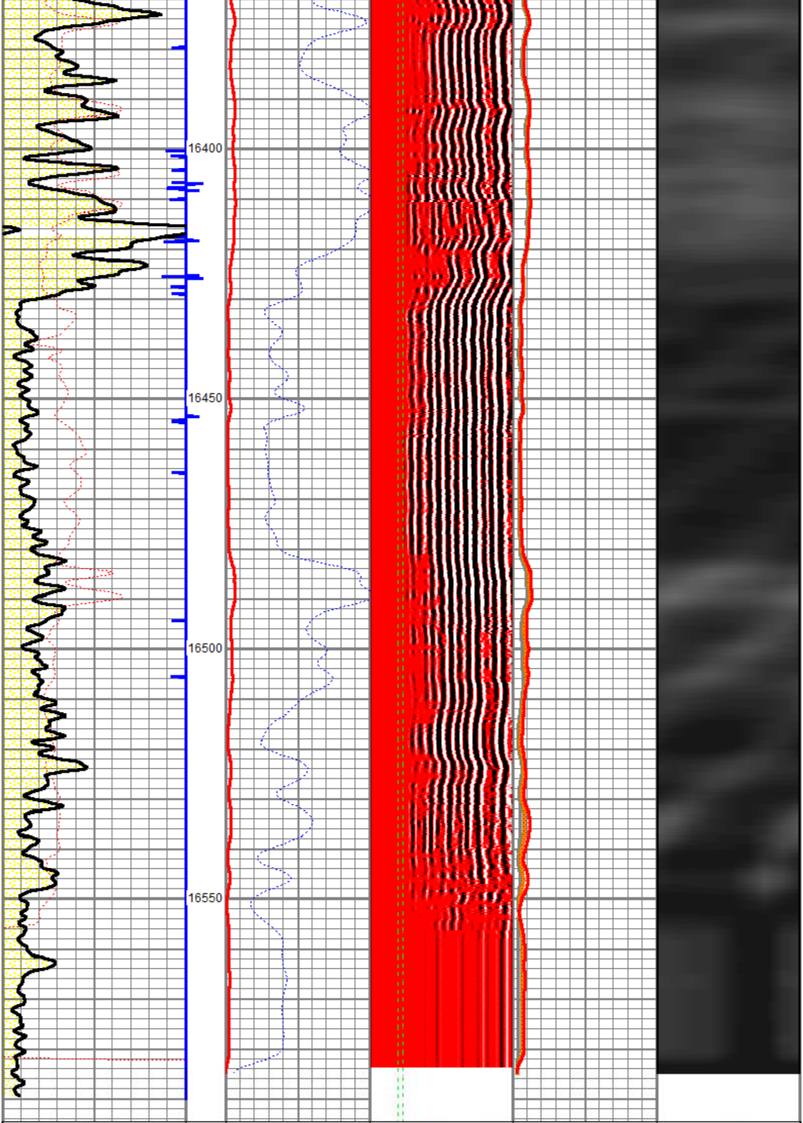
RENEGADE SERVICES

Repeat Pass (0 PSI)

Database File	xto plu 26 bridge fed 1 swd.db
Dataset Pathname	pass2
Presentation Format	rrcbl_mx
Dataset Creation	Wed Sep 09 23:06:44 2020
Charted by	Depth in Feet scaled 1:240

366 TT (usec) 266		0 Amplitude (mV) 150	200 VDL (usec) 1200	-5 AMPMIN 150	Cement Map
0 GR (GAPI) 150		Amplified Amplitude		-5 AMPAVG 150	
0 LTEN (lb) 2000		0 (mV) 10	Free Pipe Gate	-5 AMPMAX 150	
	CCL				





366 TT (usec) 266	0 Amplitude (mV) 150	200 VDL (usec) 1200	-5 AMPMIN 150	Cement Map
0 GR (GAPI) 150	Amplified Amplitude		-5 AMPAVG 150	
0 LTEN (lb) 2000	0 (mV) 10	Free Pipe Gate	-5 AMPMAX 150	
CCL				

Log Variables

DatabaseC:\ProgramData\Warrior\Data\xto plu 26 bridge fed 1 swd.db
Dataset field/well/run1/pass4.1/_vars_

Top - 11230.00 ft

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft
TEMP	7.875	100	9.625	0	53.5	52	1	0.8

PERFS	PPT usec	SRFTEMP degF	TDEPTH ft
No	0	0	11230

11230.00 ft - Bottom

CASEOD in	MAXAMPL mV	TDEPTH ft
7	65	16830

Variable Description

BHTEMP_Src : BHTEMP Input Source Selector
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude
MINAMPL : Minimum Amplitude
MINATTN : Minimum Attenuation
PERFS : Perforation Flag
PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

Calibration Report

Database File	xto plu 26 bridge fed 1 swd.db
Dataset Pathname	pass4
Dataset Creation	Wed Sep 09 23:15:50 2020

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 100332

SHOP CALIBRATION Wed Oct 25 09:43:52 2017

	Counts/Sec.	Gain	Offset	Jig	Units
Background	53.7				cps
Calibrator	433.3				cps
		0.8640			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: 100919
Tool Model: Probe

Calibration Casing Diameter:	5.500	in
Calibration Depth:	29.825	ft

Master Calibration, performed Wed Sep 09 21:26:42 2020:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.006	1.005	1.000	71.921	70.989	0.551
CAL	0.004	1.012				
5'	0.008	0.934	1.000	71.921	76.575	0.397
SUM						
S1	0.007	1.009	0.000	100.000	99.863	-0.745
S2	0.007	1.012	0.000	100.000	99.473	-0.674
S3	0.007	1.025	0.000	100.000	98.182	-0.668
S4	0.007	1.018	0.000	100.000	98.905	-0.664
S5	0.007	1.011	0.000	100.000	99.533	-0.656
S6	0.007	1.010	0.000	100.000	99.688	-0.661
S7	0.007	0.995	0.000	100.000	101.228	-0.688
S8	0.007	0.994	0.000	100.000	101.272	-0.661

Internal Reference Calibration, performed Wed Sep 09 23:06:41 2020:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.005	0.926	0.004	1.012	1.093	-0.001

Air Zero Calibration, performed Wed Sep 09 21:27:01 2020:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.007	0.000	-0.000
5'	0.009	0.000	-0.001
SUM			
S1	0.007	0.000	0.000
S2	0.006	0.000	0.001
S3	0.007	0.000	-0.000
S4	0.007	0.000	-0.000
S5	0.007	0.000	-0.000
S6	0.007	0.000	-0.000
S7	0.006	0.000	0.001
S8	0.007	0.000	-0.000

Temperature Calibration Report

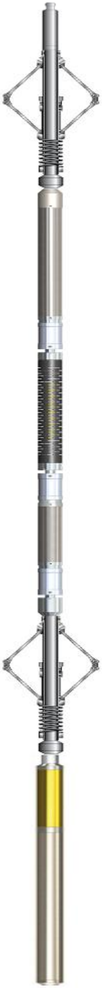
Serial Number: 100919
Tool Model: Probe
Performed: Tue Aug 04 09:45:53 2020

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

Gain: 0.73
Offset: 0.00
Delta Spacing 1

Sensor	Offset (ft)
TEMP	13.98
WVFS8	11.77
WVFS7	11.77
WVFS6	11.77
WVFS5	11.77
WVFS4	11.77
WVFS3	11.77
WVFS2	11.77
WVFS1	11.77
WVFCAL	11.77
WVF3FT	11.77
WVF5FT	10.77
CCL	3.92
GR	2.54

Schematic



Description	Length (ft)	O.D. (in)	Weight (lb)
CHD-1.6875CHD	1.00	1.69	10.00
CENT-Probe Probe 2 3/4 Centralizer	2.83	2.75	20.00
RBT-Probe (100919) Probe Radii Bond Tool with Digital Telemetry	8.83	2.75	93.00
CENT-Probe Probe 2 3/4 Centralizer	2.83	2.75	20.00
GR-Probe275dig (100332) Probe Digital Gamma CCL	4.75	2.75	57.00

Dataset: xto plu 26 bridge fed 1 swd.db: field/well/run1/pass4
Total length: 20.25 ft
Total weight: 200.00 lb
O.D.: 2.75 in

RENEGADE SERVICES

Company	XTO ENERGY
Well	PLU 26 BRIDGE FEDERAL SWD #1
Field	DEVONIAN SWD
County	EDDY
State	NM