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Cement Bond Log

Company	Extraction Oil and Gas
Well	MLD 8
Field	Wattenberg
County	Weld
State	Colorado

Company Extraction Oil and Gas
Well MLD 8
Field Wattenberg
County Weld State Colorado

API #: 05-123-44818
Location: NW/NW
802 FNL
604 FWL

Other Services

SEC: 22 TWP: 4N RGE: 68W

Elevation
K.B. 4901
D.F. 4900
G.L. 4876

Permanent Datum:	Ground Level	Elevation: 4876
Log Measured From:	Kelly Bushing	, 25 ft. above Permanent Datum.
Drilling Measured From:	Kelly Bushing	

Date	26 Sept 2017
Run Number	One
Plug Back T.D. Driller	----
Plug Back T.D. Logger	-----
Bottom Logged Interval	6810
Top Log Interval	Surface
Type Fluid	Water
Density / Viscosity	----
Max Recorded Temp.	221
Time Logger on Bottom	07:30
Equipment Number	GD114
Location	Casper
Recorded By	GS Yarbro
Witnessed By	Mr. Stephens

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8	36	0	1500				
5 1/2	20	0	11474				

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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.

Ticket # : RM0917WLOW653
Your Crew Today: Carpenter, Kennicker
Log Correlated to: Surface

Cement Data	
Date Cemented	----
Primary / Squeeze	Primary
Type / Weight	----
Main Pass Press.	Zero
Repeat Pass Press.	Zero

Bond Index

Index %	Est Top Depth
20 % Bond	400
40 % Bond	514
60 % Bond	2150
80 % Bond	6394
100 % Bond	6544

Comments

Estimated Top of Cement
(20% Bond Index) @ 400

Thank you for using Gyrodata

Eric Regnier: Rocky Mountain Wireline Manager EricR@Gyrodata.com

Log Variables

Databased:\warrior\data\2017-09-25_extrac_mld8_cbl\2017-09-25_extrac_mld8_cbl.db
Dataset field/well/run1/pass4.2/_vars_

Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in
TEMP	8.5	100	5.5	0.361	20	71.9	4.923

MaxAPIWall in	MINAMPL mV	MinAPIID in	MINATTN db/ft	PPT usec
0.361	1.9	4.751	0	239

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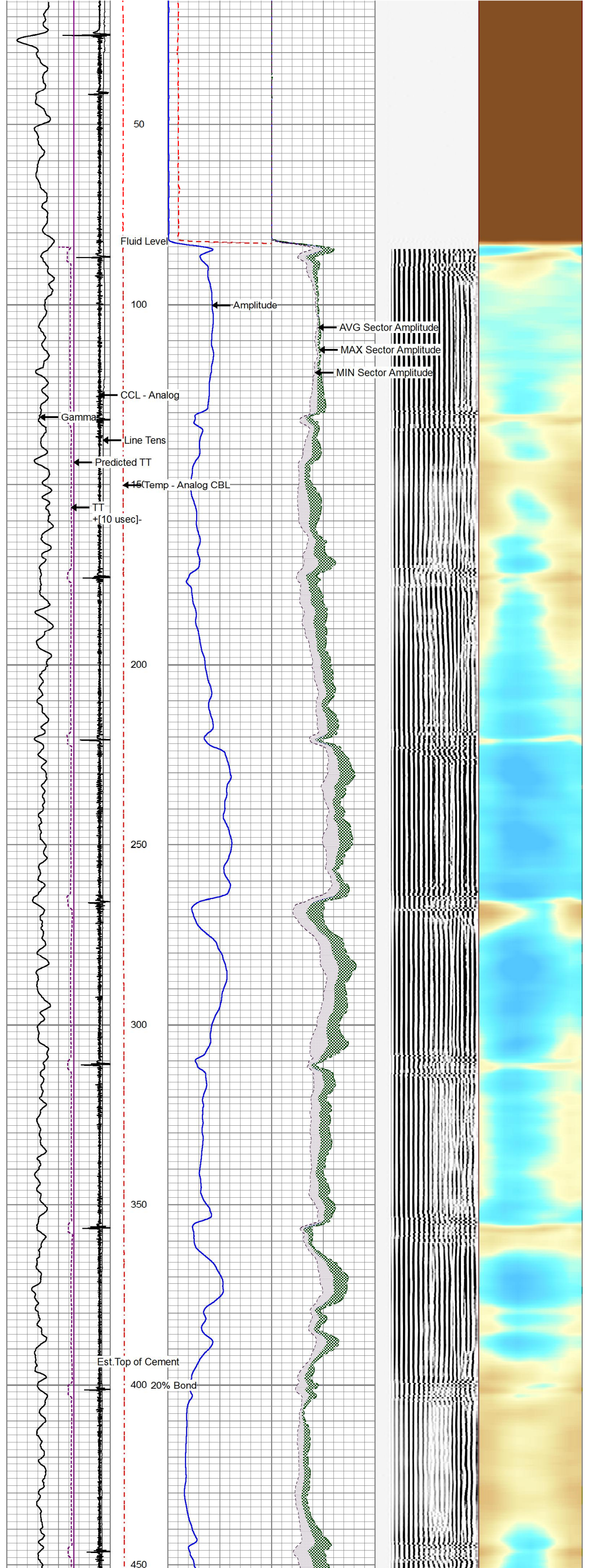
BOND INDEX

Database File 2017-09-25_extrac_mld8_cbl\2017-09-25_extrac_mld8_cbl.db
Dataset Pathname ./././bndindx2
Presentation Format BONDIN~3
Dataset Creation Tue Sep 26 08:52:24 2017
Charted by Depth in Feet scaled 1:7500



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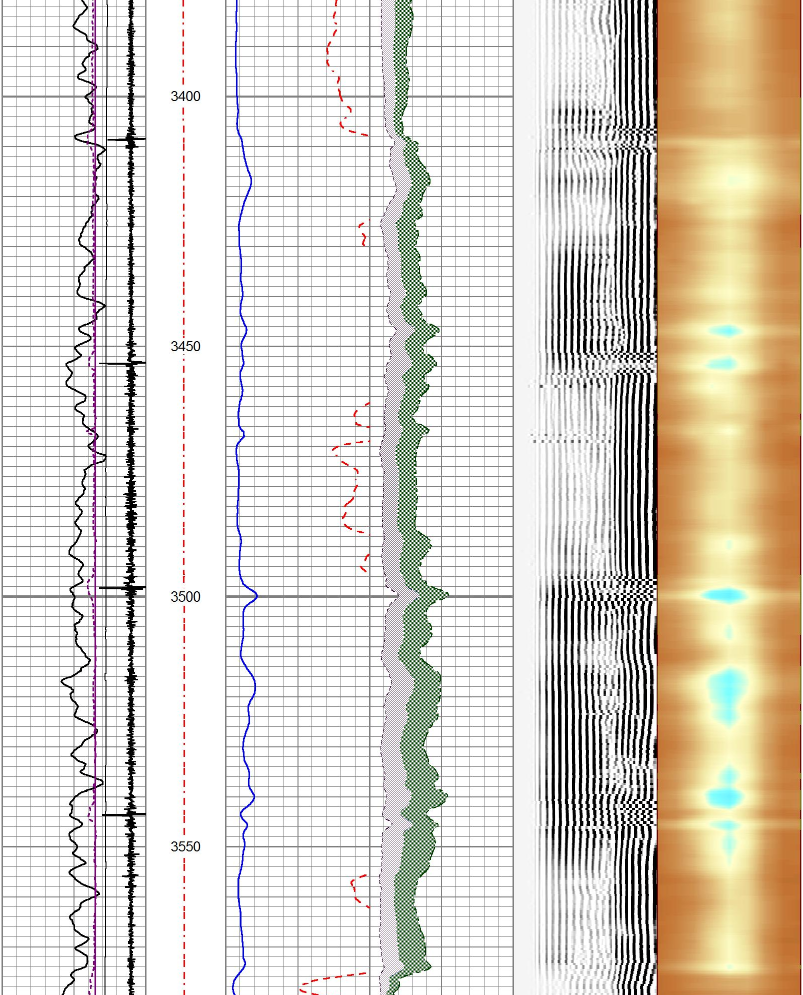
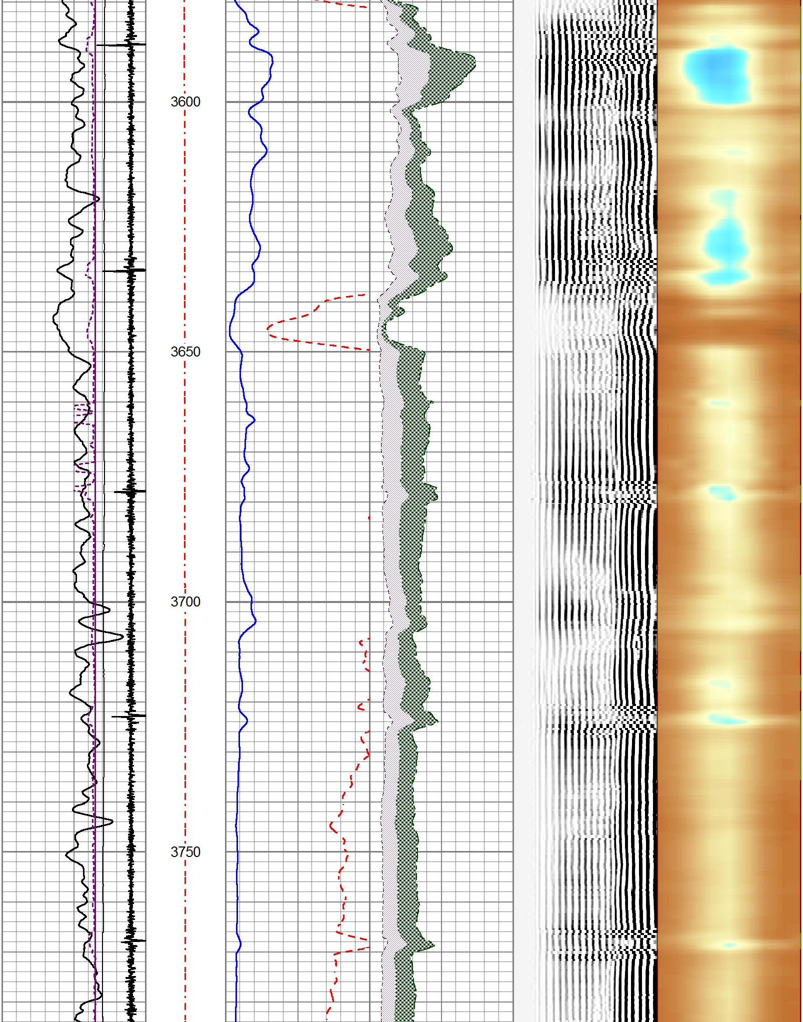
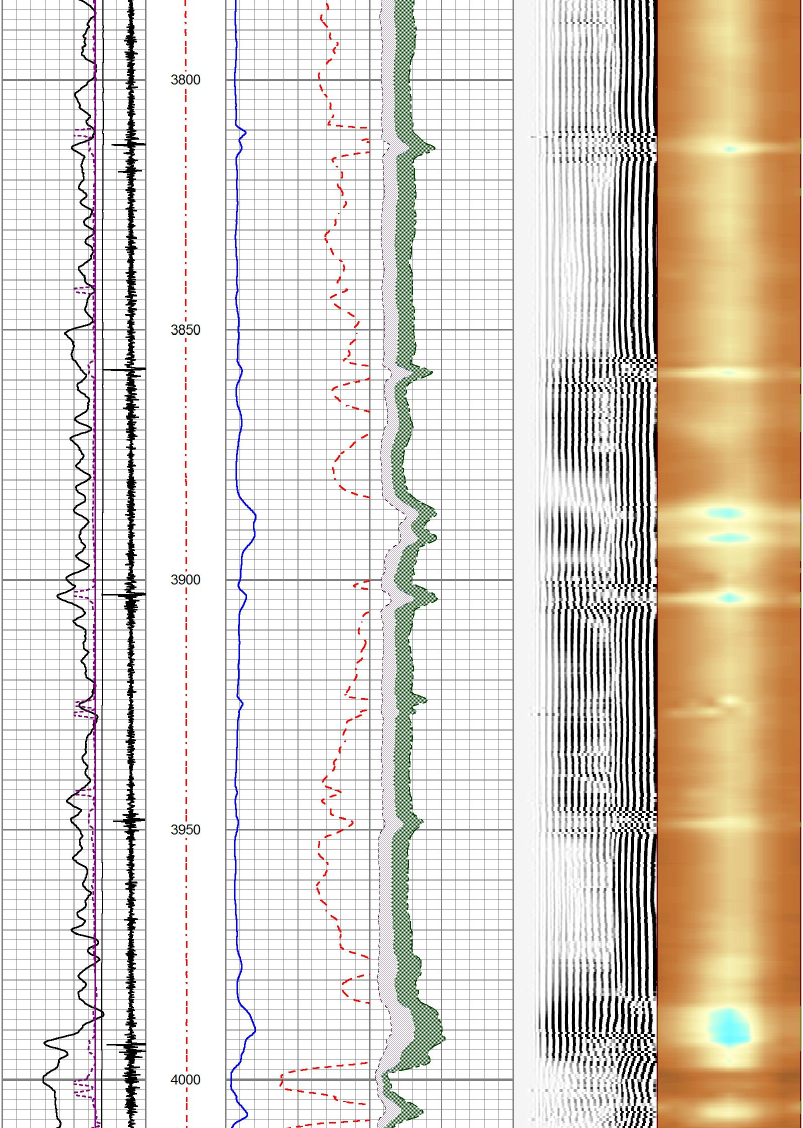
MAIN PASS - Ran with 0 PSI

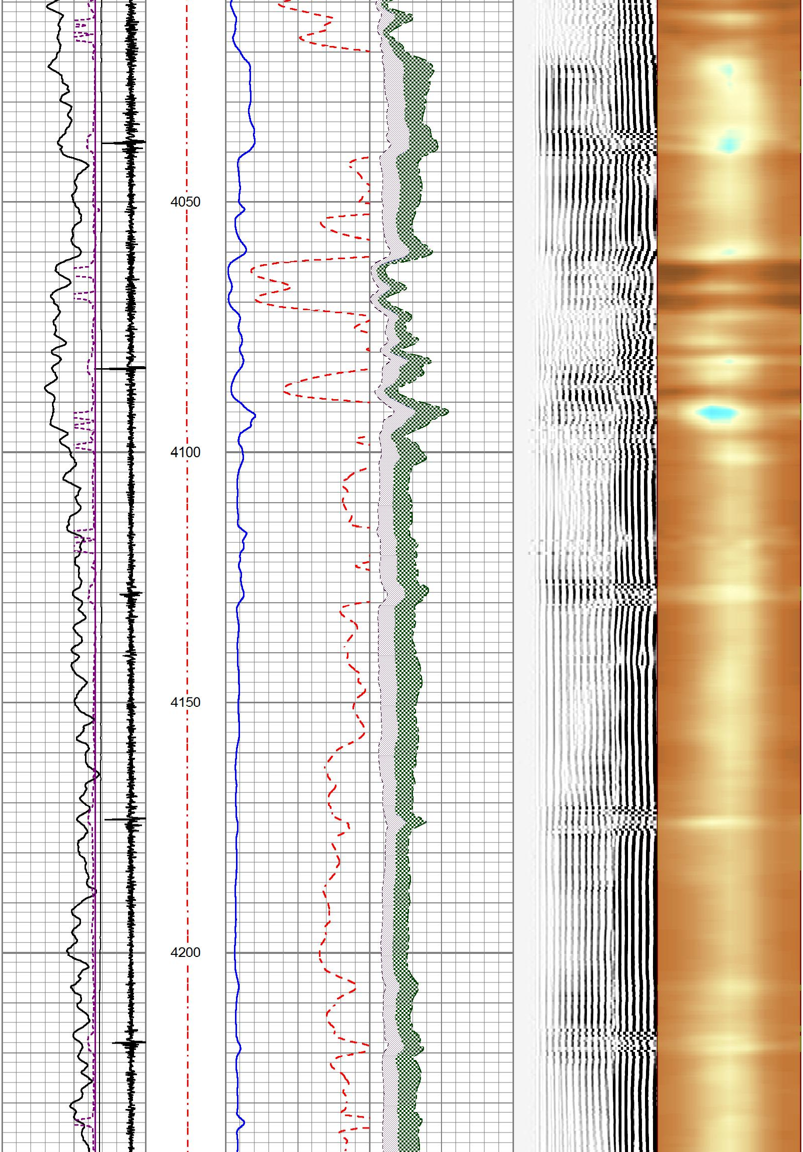
5 in / 100 ft

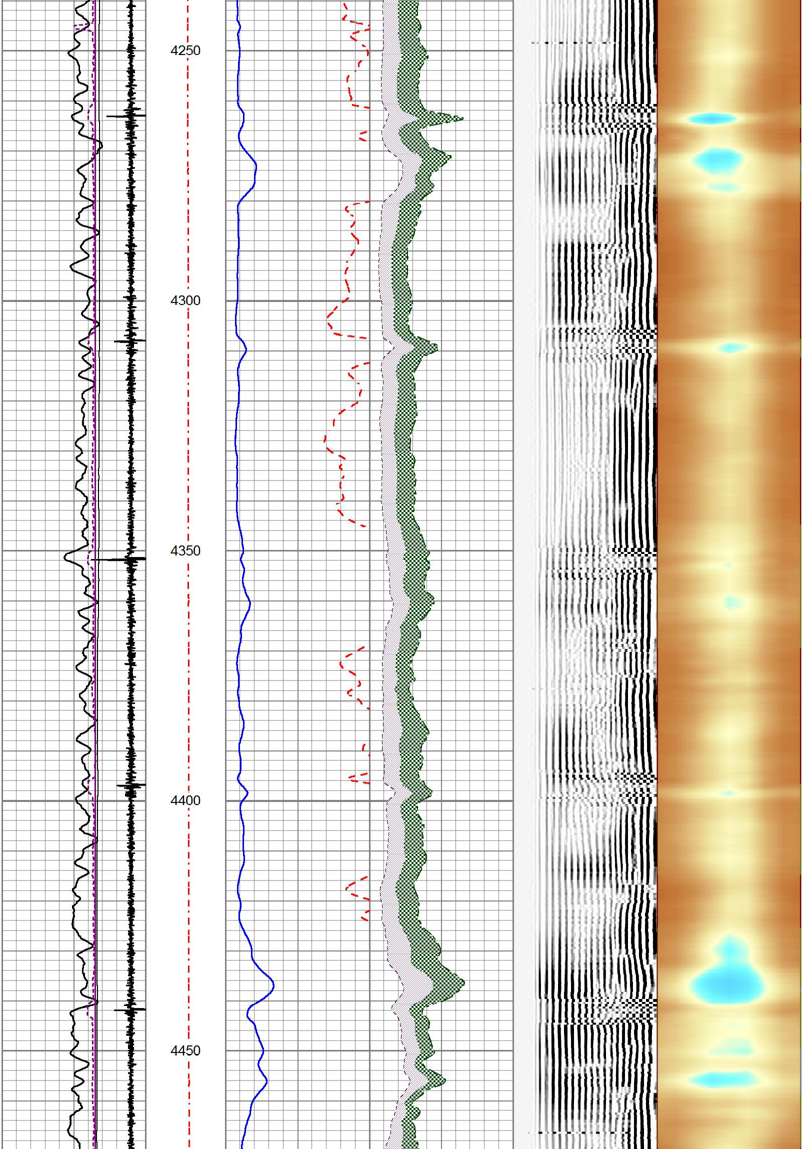
Database File 2017-09-25_extrac_mld8_cbl\2017-09-25_extrac_mld8_cbl.db
Dataset Pathname pass4.2
Presentation Format rcbl_8s
Dataset Creation Tue Sep 26 08:47:54 2017
Charted by Depth in Feet scaled 1:240

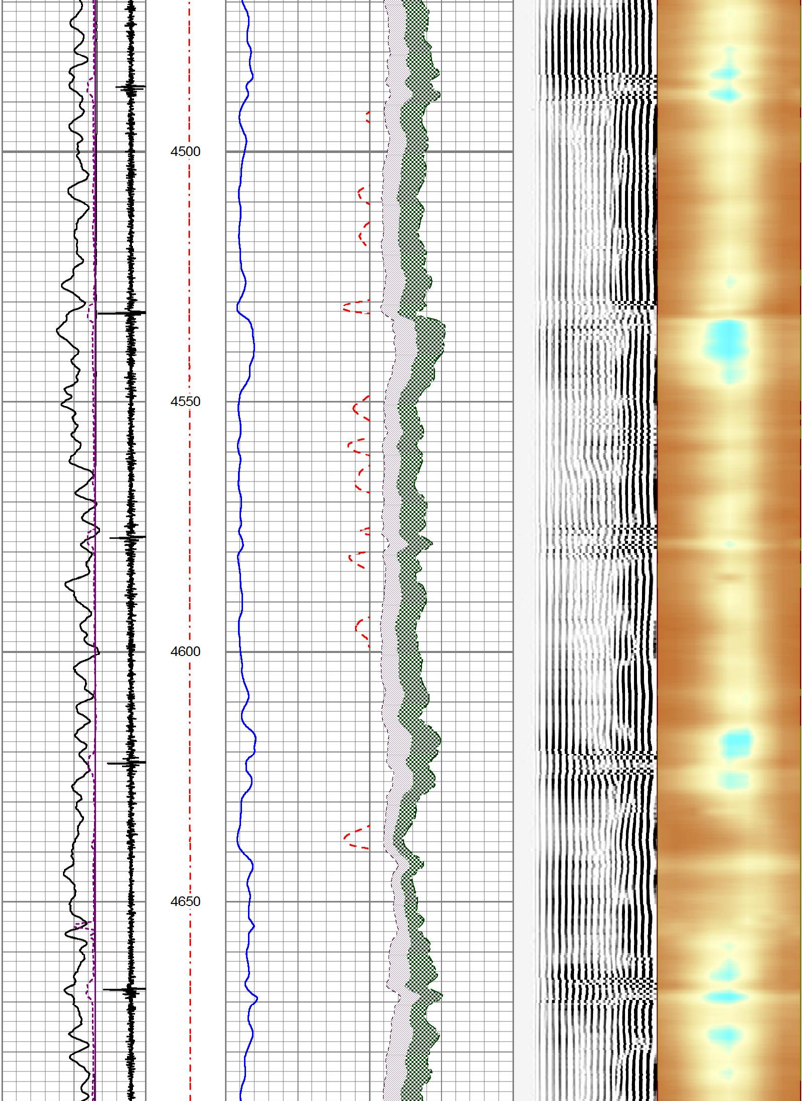


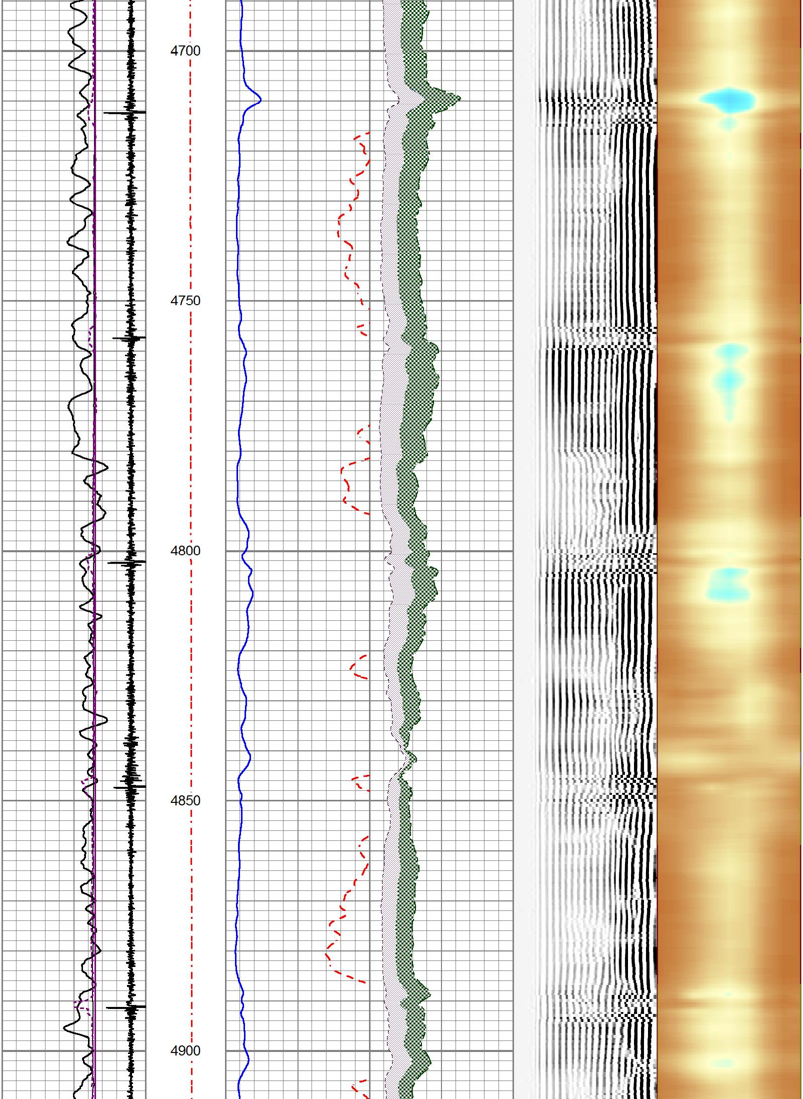


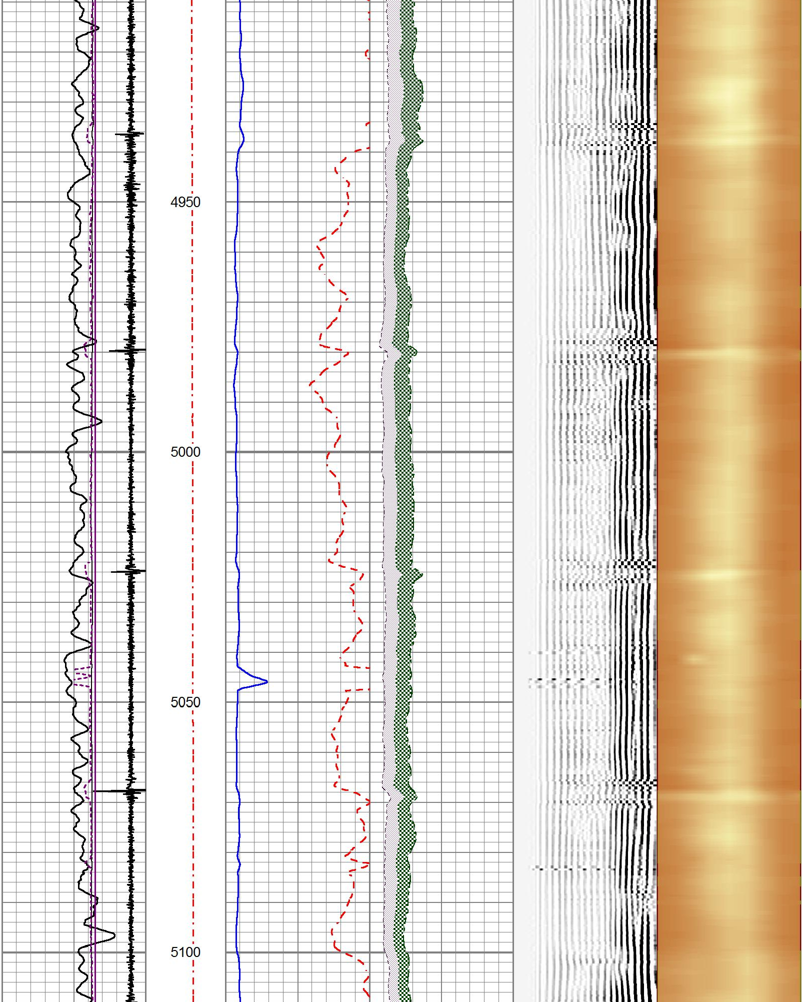


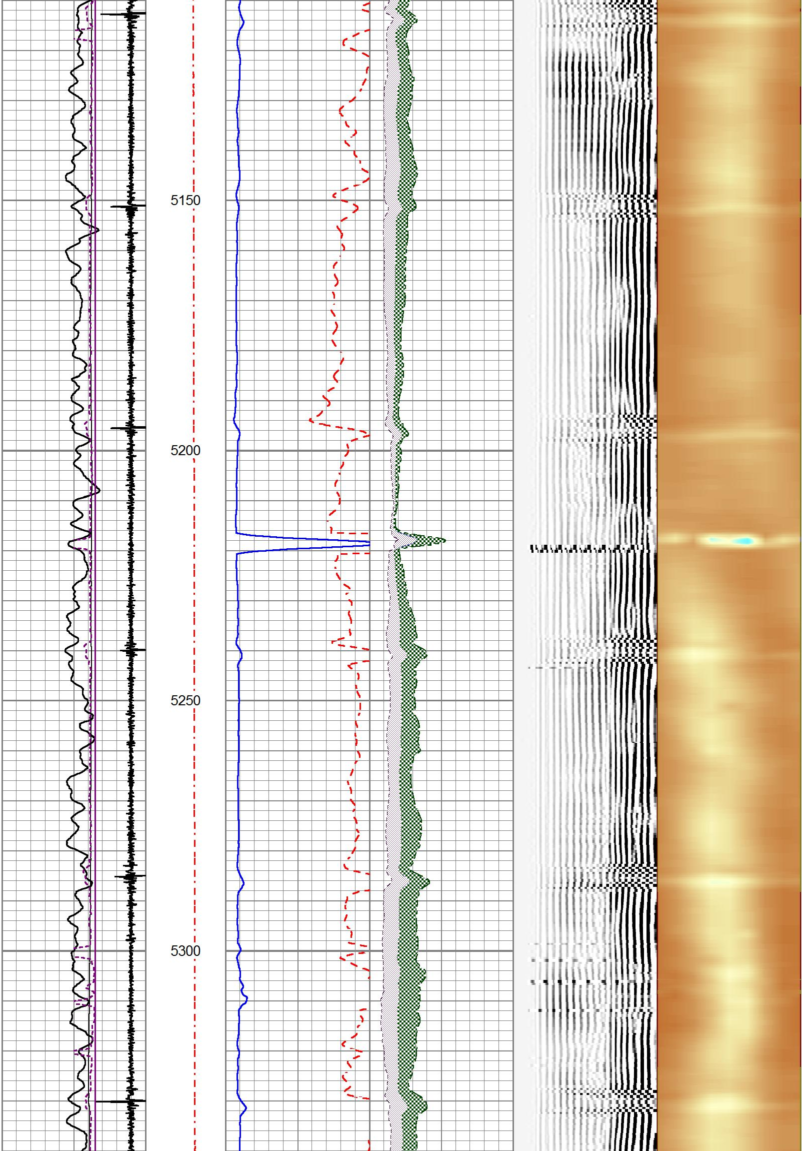


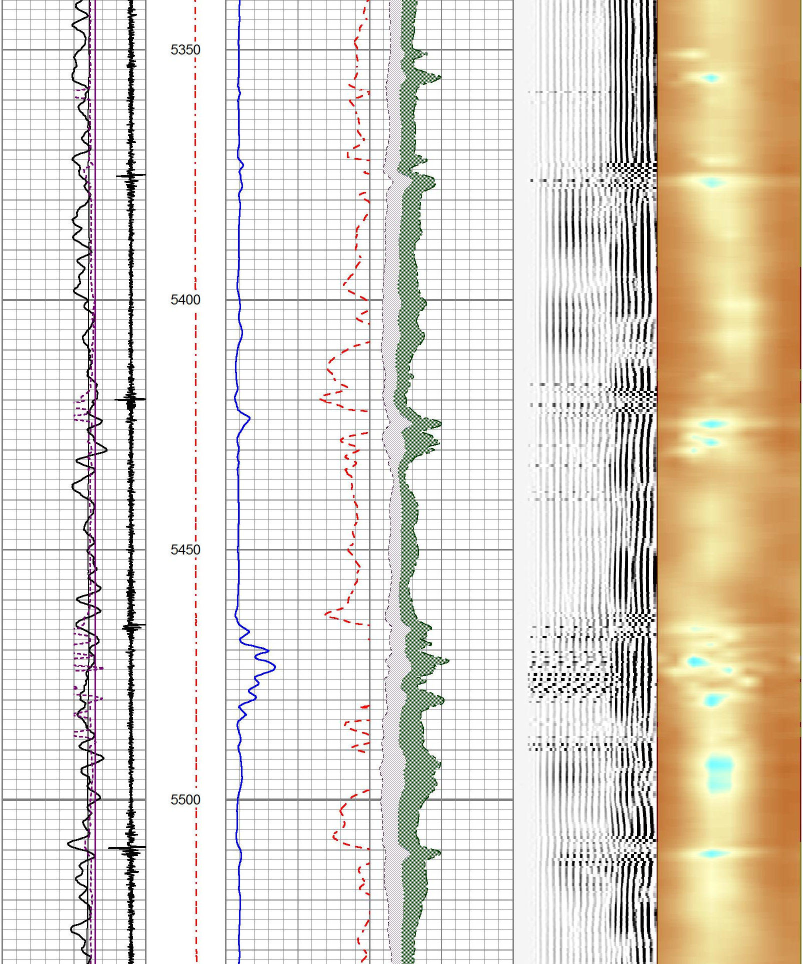


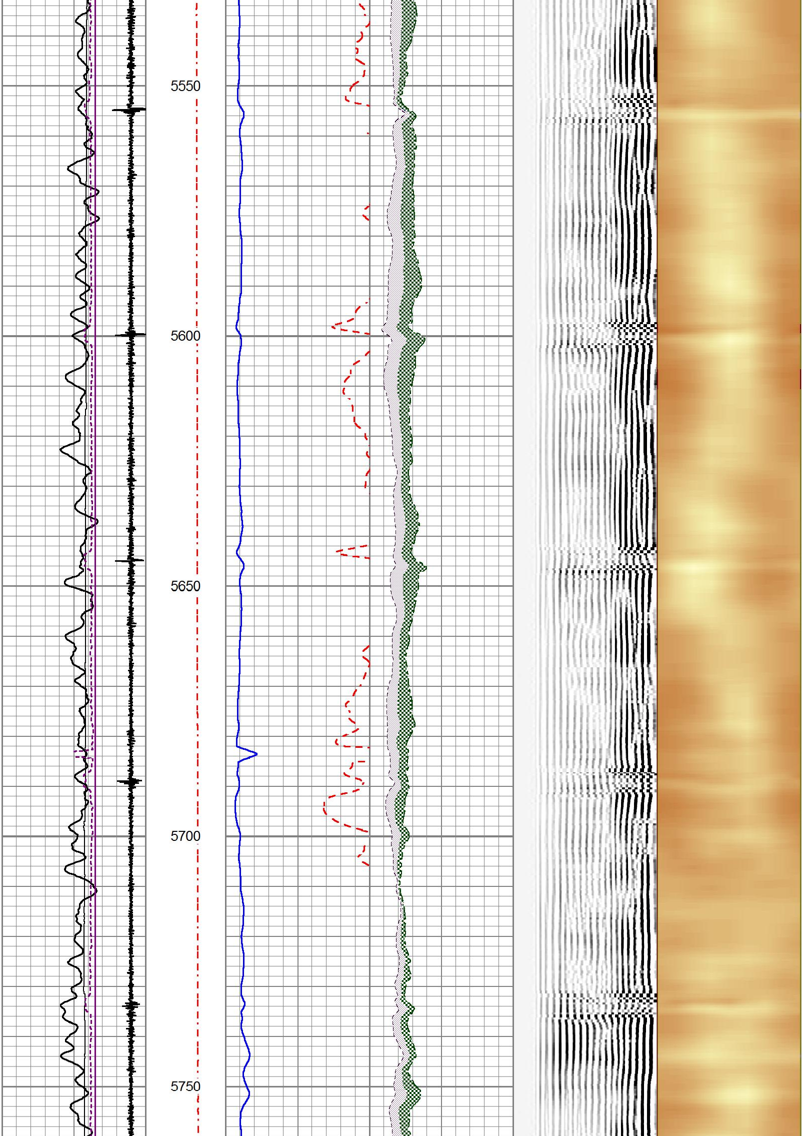


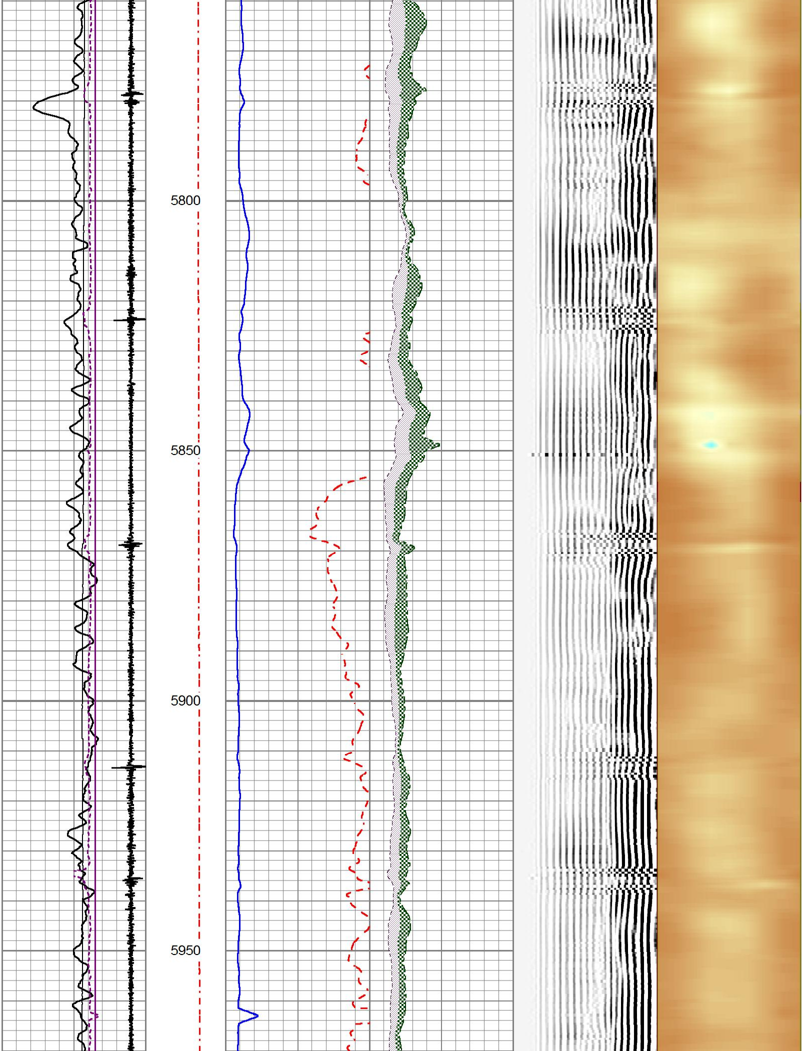


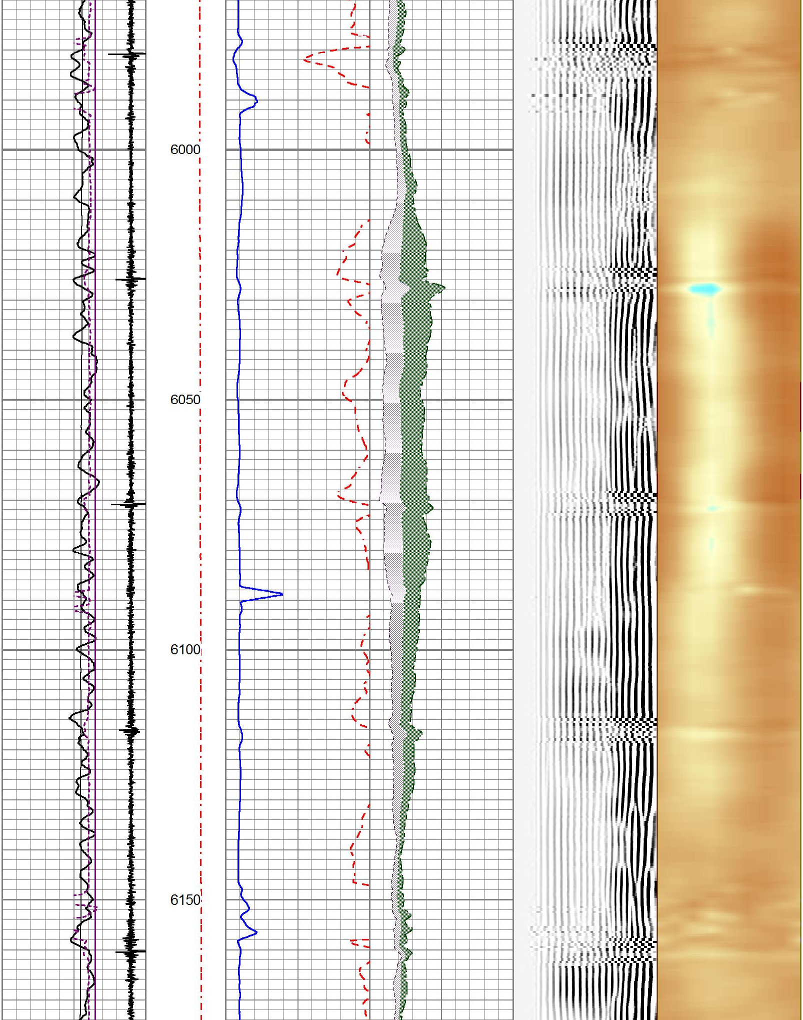


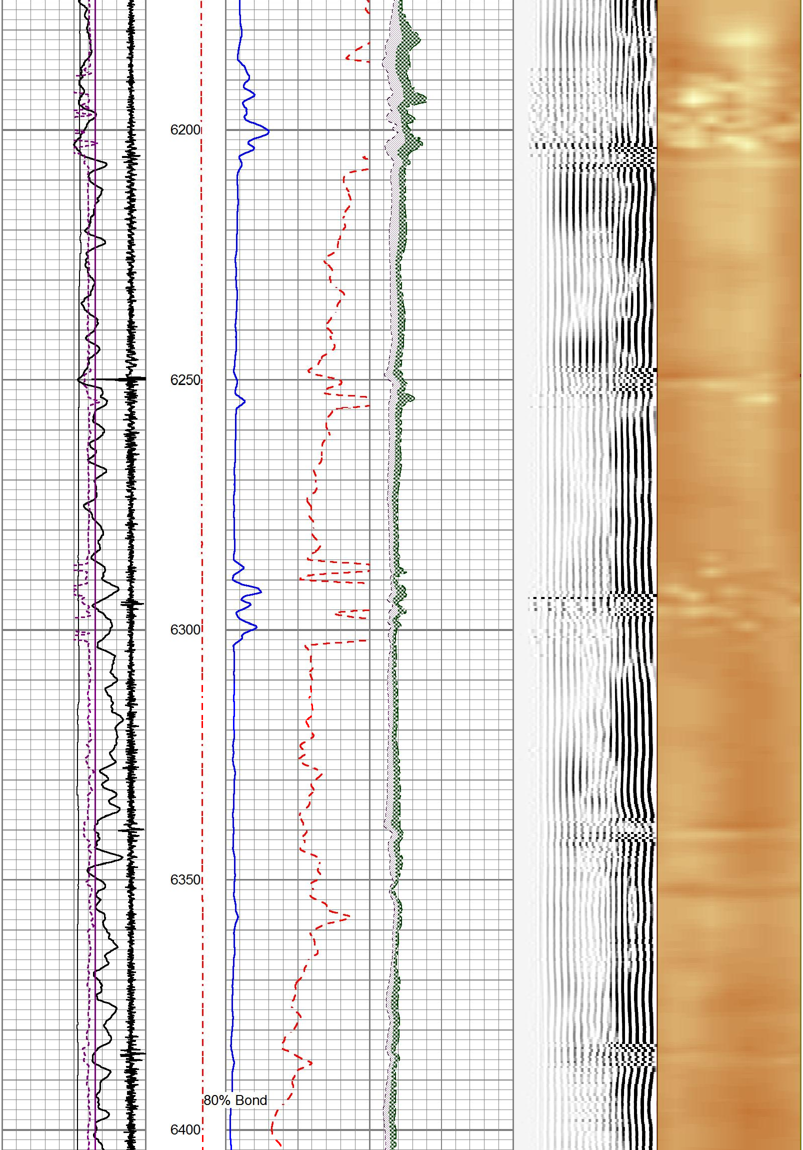


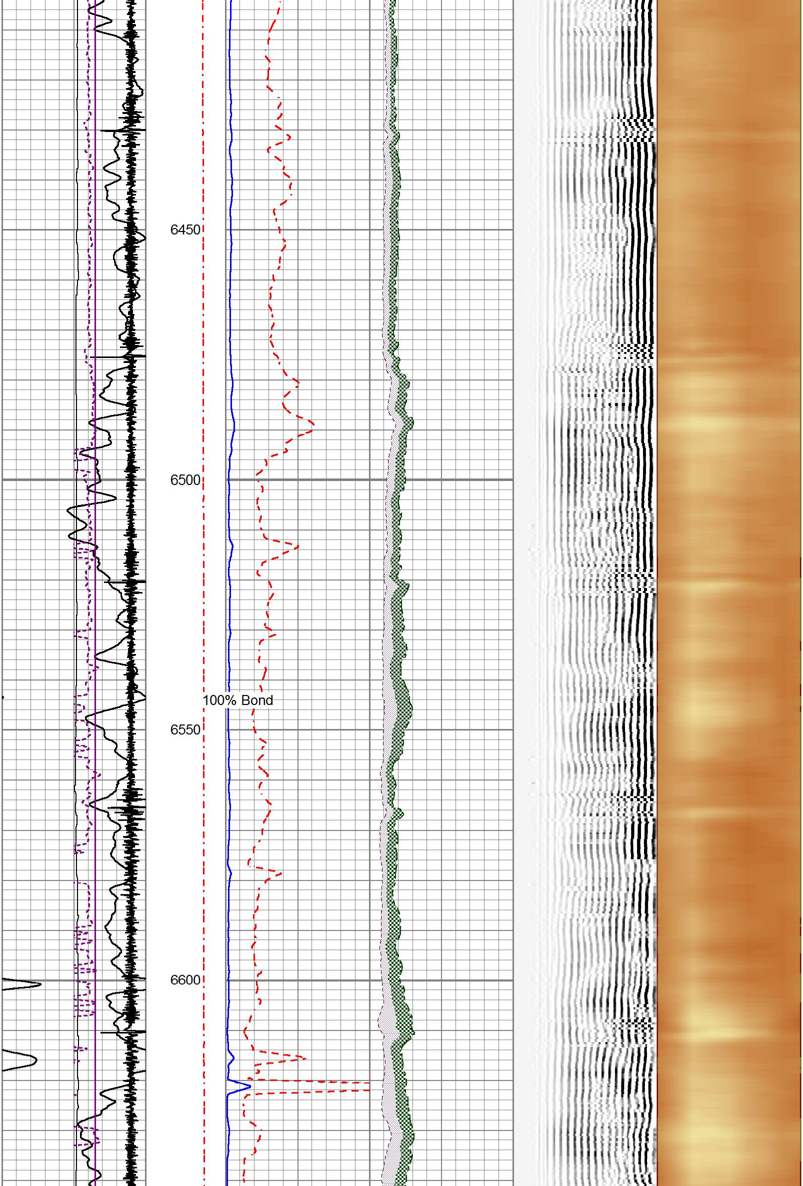


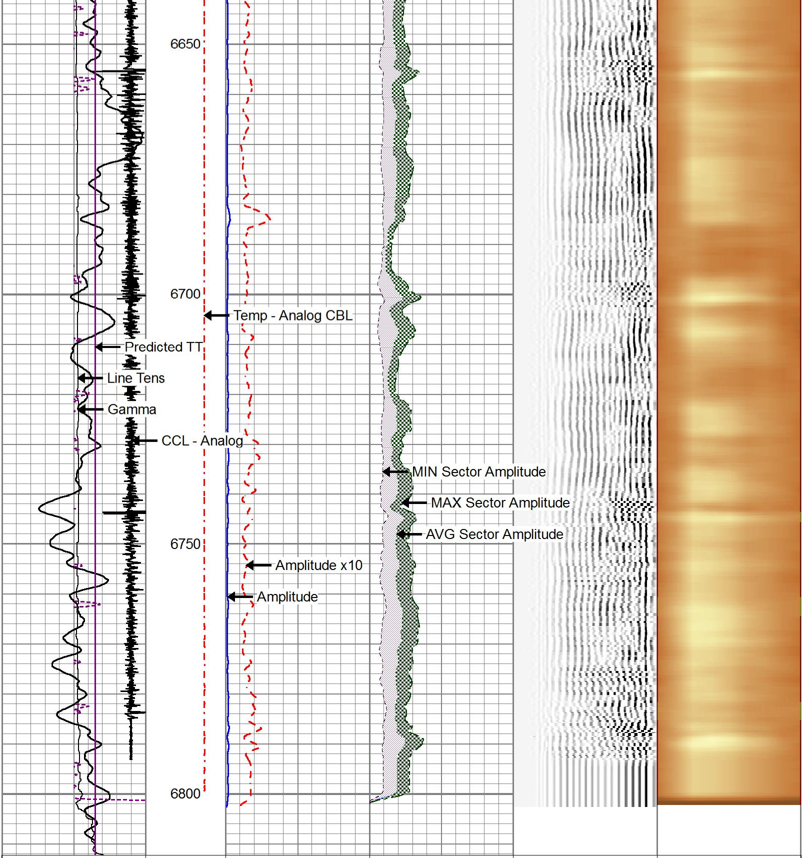












CCL - Analog	np - Analog C	0 Amplitude (mV)100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 (usec) 1200	
0 (GAPI) 200	0 300	0 (mV) 10	MAX Sector Amplitude		
300(Line Tens (lb) 0			0 100		
Predicted TT			MIN Sector Amplitude		
TT +[10 usec]-			0 100		

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REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	2017-09-25_extrac_mld8_cbl\2017-09-25_extrac_mld8_cbl.db
Dataset Pathname	pass3.1
Presentation Format	cbl
Dataset Creation	Tue Sep 26 08:49:34 2017
Charted by	Depth in Feet scaled 1:240

CCL - Analog

0 Gamma (GAPI) 200

3000 Line Tens (lb) 0

Predicted TT

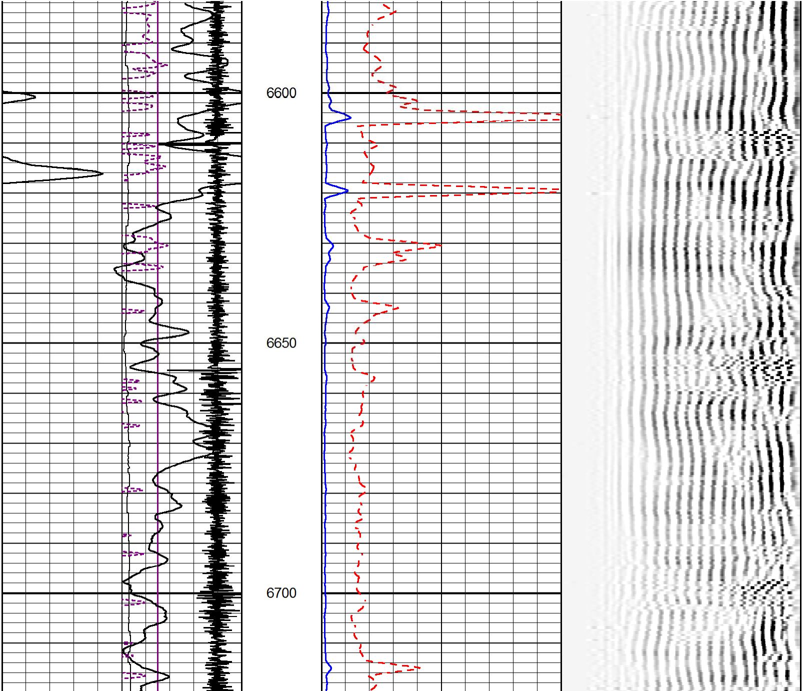
TT
+[10 usec]-

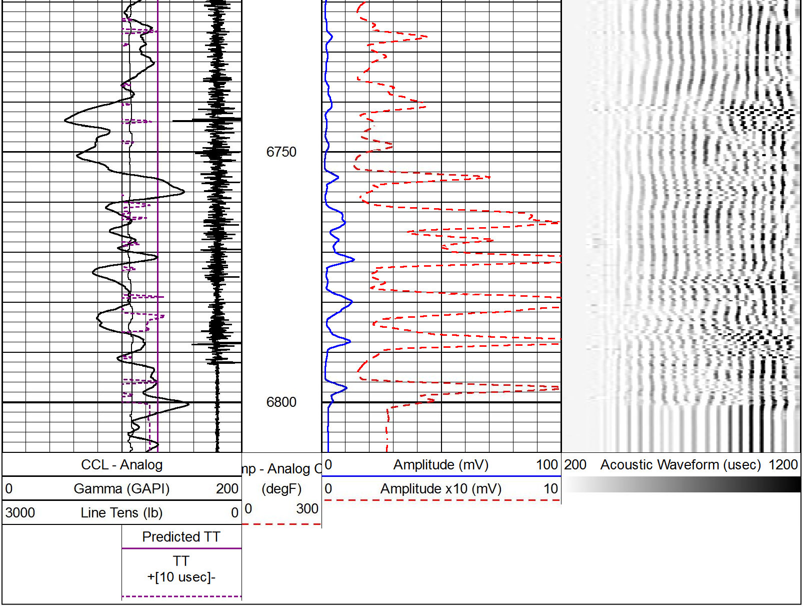
np - Analog C
(degF)
0 300

0 Amplitude (mV) 100

0 Amplitude x10 (mV) 10

200 Acoustic Waveform (usec) 1200





Calibration Report

Database File	d:\warrior\data\2017-09-25_extrac_mld8_cbl\2017-09-25_extrac_mld8_cbl.db
Dataset Pathname	pass4.2
Dataset Creation	Tue Sep 26 08:47:54 2017

Gamma Ray Calibration Report

Serial Number:	ISHV2-03	
Tool Model:	2 3/4" TekCo	
Performed:	Tue Dec 13 00:23:06 2016	
Calibrator Value:	194.0	GAPI
Background Reading:	58.9	cps
Calibrator Reading:	300.8	cps
Sensitivity:	0.8020	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	IPPO2-01	
Tool Model:	2 3/4" RIB Analog	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	0.000	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	1.141	1.000	72.000	62.303	0.942
CAL	0.000	0.750				
5'	-0.004	1.497	1.000	72.000	47.284	1.202
SUM						
S1	0.024	1.080	0.000	45.000	42.613	-1.013
S2	0.026	0.812	0.000	45.000	57.239	-1.500
S3	0.028	0.670	0.000	45.000	70.078	-1.985
S4	0.031	0.588	0.000	45.000	80.693	-2.472
S5	0.028	0.666	0.000	45.000	70.546	-1.977
S6	0.025	0.818	0.000	45.000	56.734	-1.393
S7	0.024	1.074	0.000	45.000	42.864	-1.032
S8	0.028	1.175	0.000	45.000	39.227	-1.092

Internal Reference Calibration, performed Fri Aug 25 16:15:12 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.750	0.000	0.750	1.000	0.000

Air Zero Calibration, performed Fri Aug 25 16:15:12 2017:

Raw (v) Calibrated (v) Results

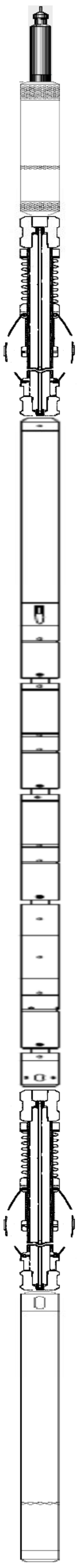
	Raw (V)	Calibrated (V)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Temperature Calibration Report

Serial Number: IPPO2-01
Tool Model: 2 3/4" RIB Analog
Performed: Fri Aug 26 11:07:15 2016

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

Gain: 0.33
Offset: 0.00
Delta Spacing 1

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			CableHead-TitanConeType2	1.03	1.44	3.60
CCL	18.96		CCL_Log-2 3/4" TekCo (IPSN7-03) 450 Deg. CCL	1.83	2.75	33.00
			TekCo-275_Tekco 2 3/4" Tekco Adjustable SPRING Centralizer	2.73	2.75	25.00
TEMP	12.78					
WVFS8	11.49					
WVFS7	11.49		RBTA-2 3/4" RIB Analog (IPPO2-01) Radial Incremented Bond Tool with Temp	9.13	2.75	102.00
WVFS6	11.49					
WVFS5	11.49					
WVFS4	11.49					
WVFS3	11.49					
WVFS2	11.49					
WVFS1	11.49					
WVF3FT	10.74					
WVF5FT	9.74					
WVFSYNC	6.41					
WVFTEMP	6.41					
WVFCAL	6.41					
			TekCo-275_Tekco 2 3/4" Tekco Adjustable SPRING Centralizer	2.73	2.75	25.00
			GR_Log-2 3/4" TekCo (ISHV2-03) 400 Deg. Gamma Ray	3.68	2.75	47.00
GR	1.04					
LOCTIM	0.00					
UTCTIM	0.00					

Dataset: 2017-09-25_extrac_mld8_cbl.db: field/well/run1/pass4.2
Total length: 21.13 ft
Total weight: 235.60 lb
O.D.: 2.75 in

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Company Extraction Oil and Gas
Well MLD 8
Field Wattenberg
County Weld
State Colorado **Country** U.S.A.