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CEMENT BOND LOG

Company	Extraction Oil and Gas
Well	Milkshake 31W-20-1N
Field	Wattenberg
County	Weld
State	CO

Company **Extraction Oil and Gas**

Well **Milkshake 31W-20-1N**

Field **Wattenberg**

County **Weld** **State** **CO**

API # : 05-123-46054
Location:
1172' FSL & 300' FWL
Lat: 40.439184
Long: -104.924301

SEC: 32 TWP: 6N RGE: 67W

Other Services

Elevation
K.B. 4876'
D.F. -----
G.L. 4948'

Permanent Datum: Ground Level Elevation: 4948'
Log Measured From: Kelly Bushing , 28 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	21 Feb 2018		
Run Number	One		
Plug Back T.D. Driller	-----		
Plug Back T.D. Logger	-----		
Bottom Logged Interval	8335'		
Top Log Interval	Surface		
Type Fluid	-----		
Density / Viscosity	-----		
Max. Recorded Temp.	226°F		
Time Logger on Bottom	16:00		
Equipment Number	GD 131		
Location	Casper, WY		
Recorded By	J. Baker		
Witnessed By	Hans		

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8"	36#	Surface	1500'				
5 1/2"	17#	Surface	17,958'				

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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 # : RM0218PCBW261
Your Crew Today: T. Staker, J. Adams, D. Hamilton, P. Murphy
Log Correlated to: Surface

Cement Data

Date Cemented	-----
Primary / Squeeze	Primary
Type / Weight	-----
Main Pass Press.	0 psi
Repeat Pass Press.	0 psi

Bond Index

Index %	Est Top Depth
20 % Bond	334'
40 % Bond	1245'
60 % Bond	1636'
80 % Bond	5404'
100 % Bond	-----

Comments

Marker joint located at 7,584'

Thank you for using Gyrodata

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

Log Variables

Databasef:\2018_02_21_extraction_milkshake_31w_20_1n_cbl.db
Dataset field/well/run1/MAINPASS/_vars_

Top - Bottom

BHTEMP_Src	BOREID	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MaxAPIID
	in	degF	in	in	lb/ft	mV	in
TEMP	8.5	226	5.5	0.304	17	71.9	5.023

MaxAPIWall	MINAMPL	MinAPIID	MINATTN	PPT
in	mV	in	db/ft	usec
0.266	1.2	5.023	0	239

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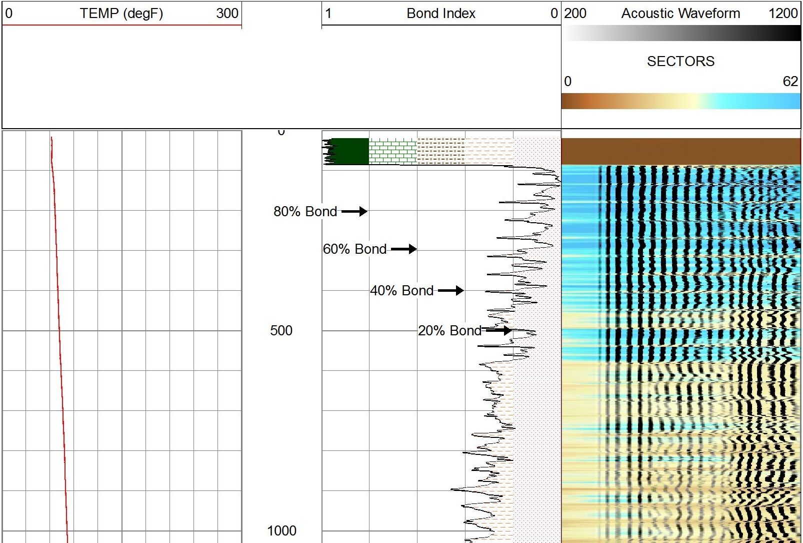
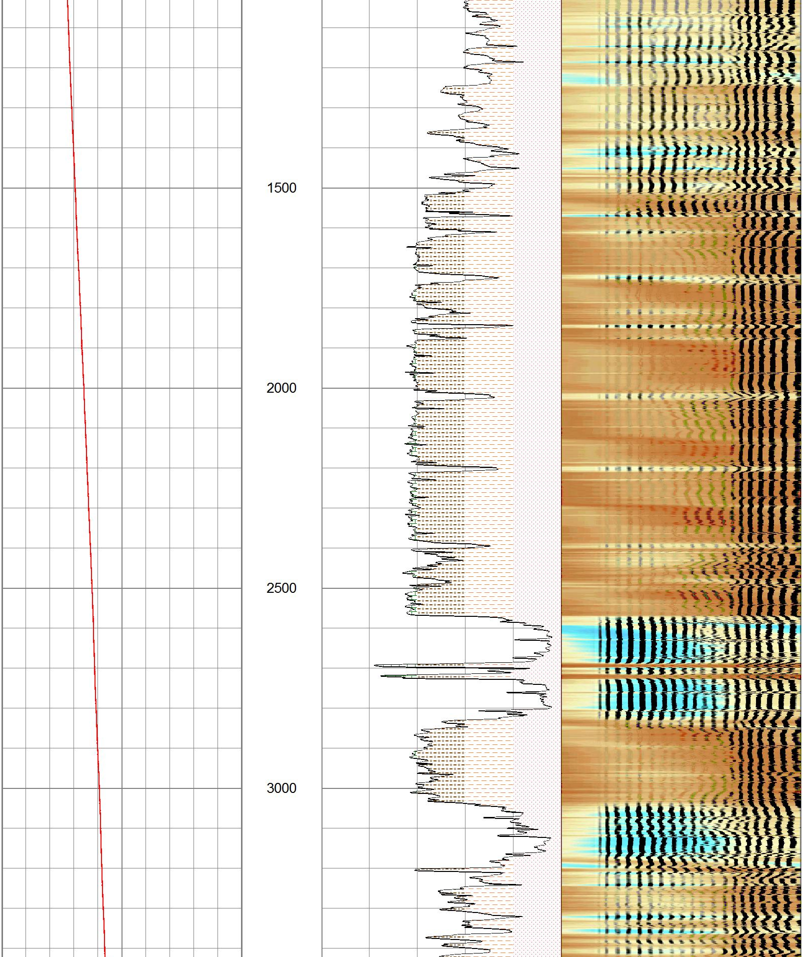
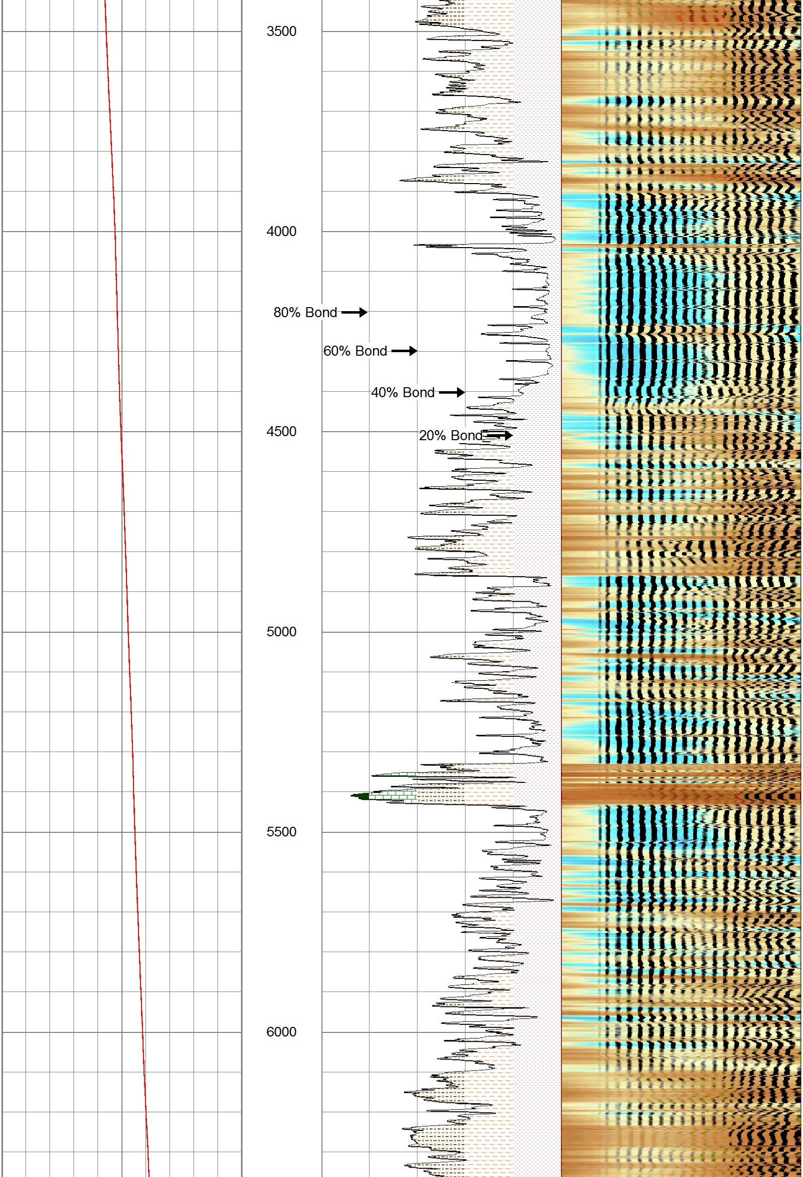
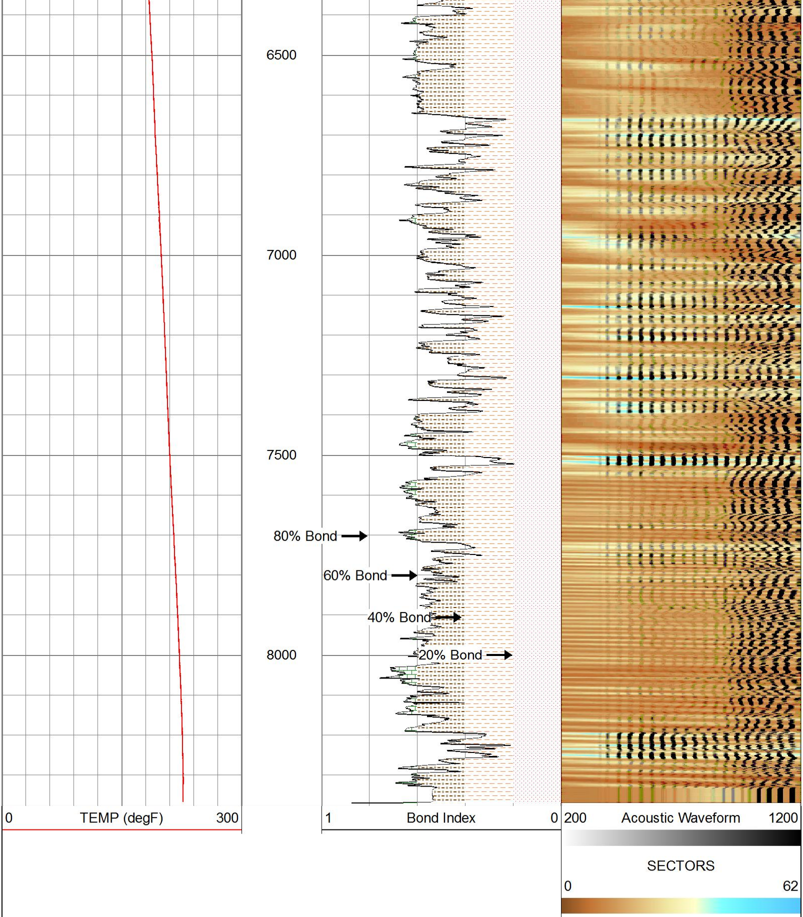
BOND INDEX

Database File	f:\2018_02_21_extraction_milkshake_31w_20_1n_cbl.db
Dataset Pathname	BOND
Presentation Format	bndindx_msg-sec
Dataset Creation	Wed Feb 21 18:08:41 2018
Charted by	Depth in Feet scaled 1:3000









BOND INDEX

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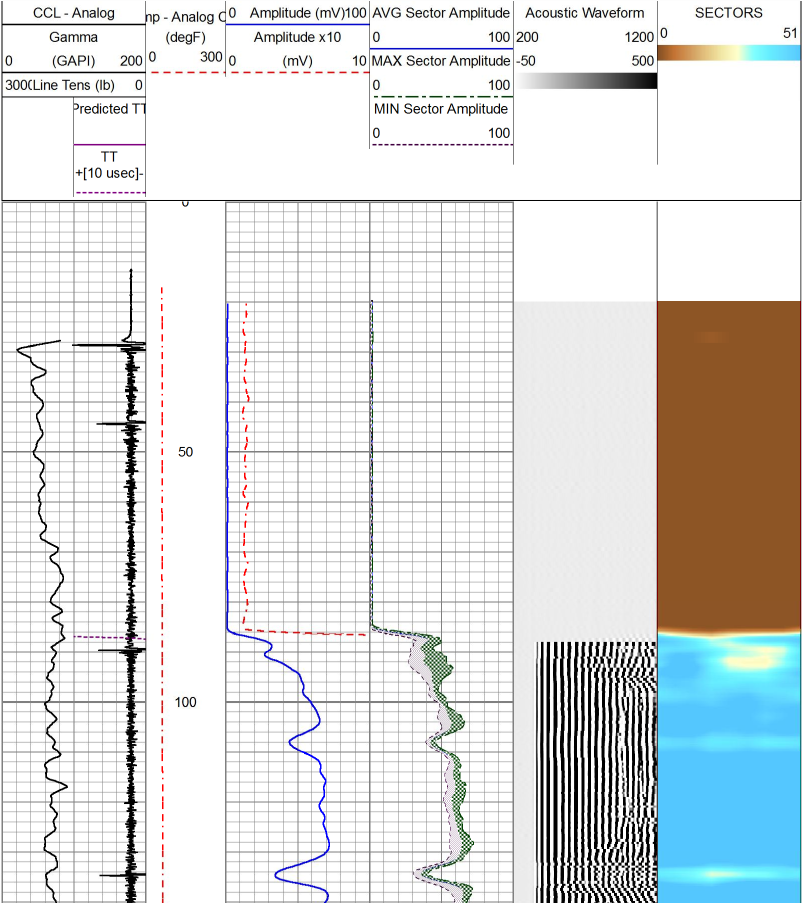
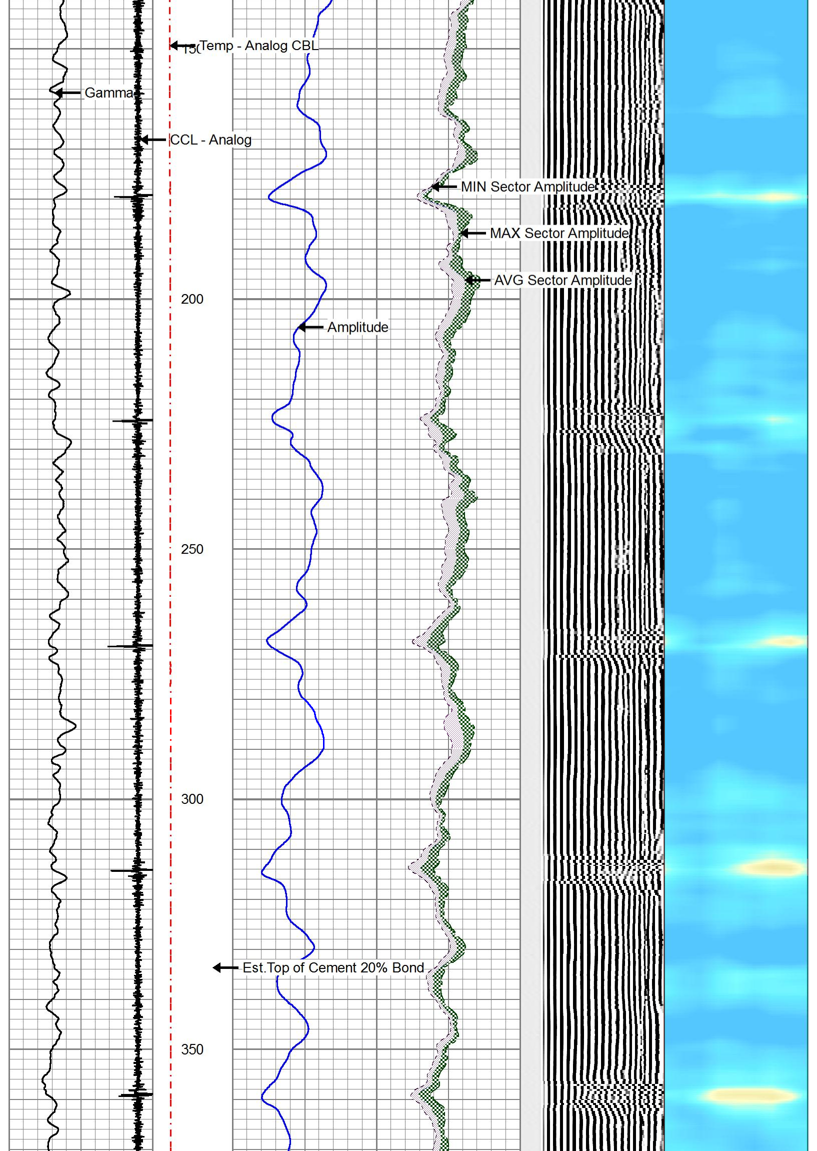
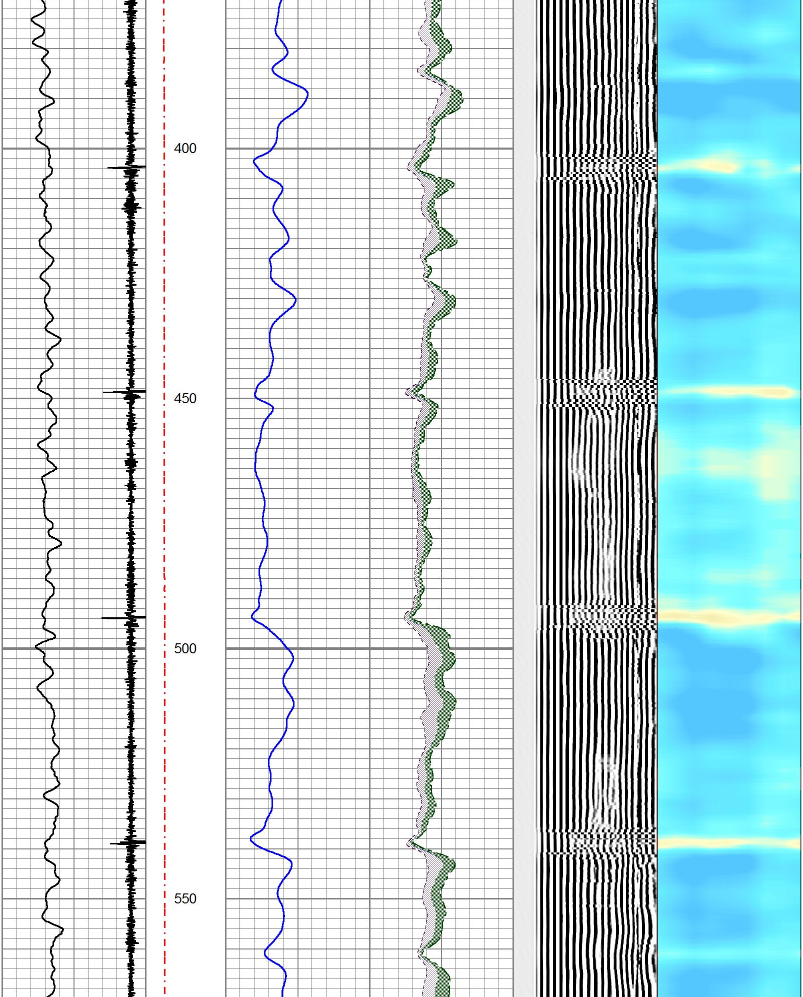
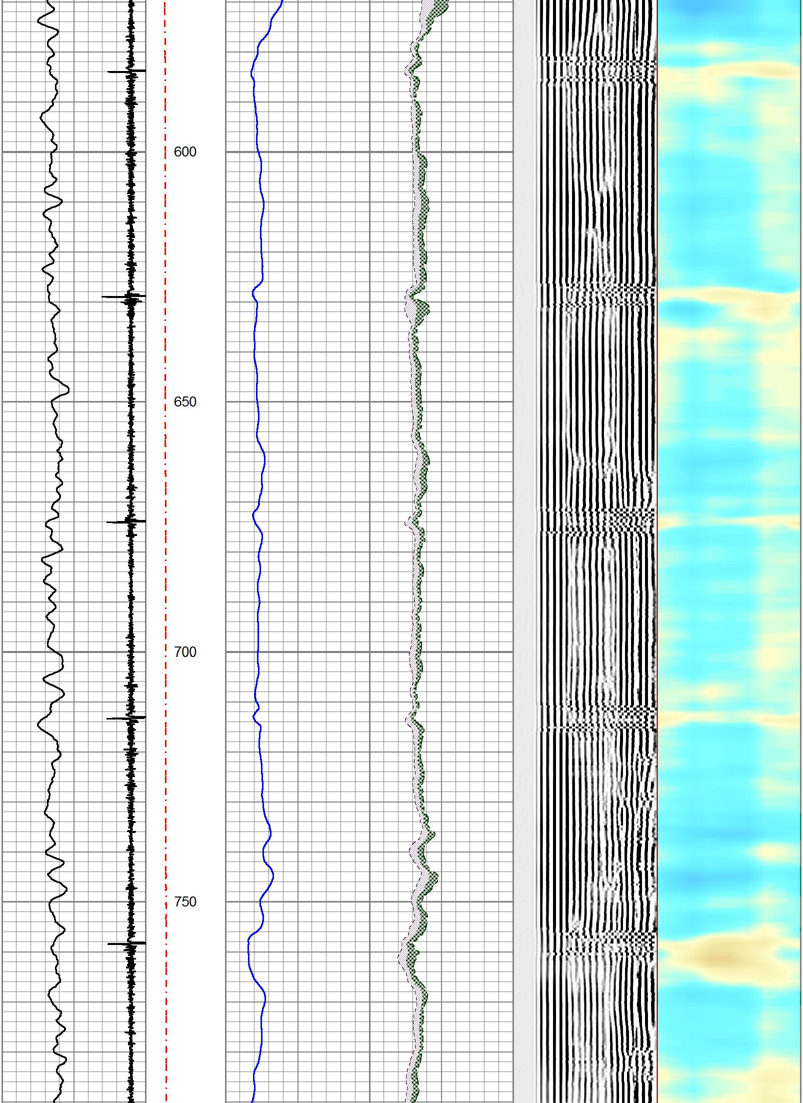
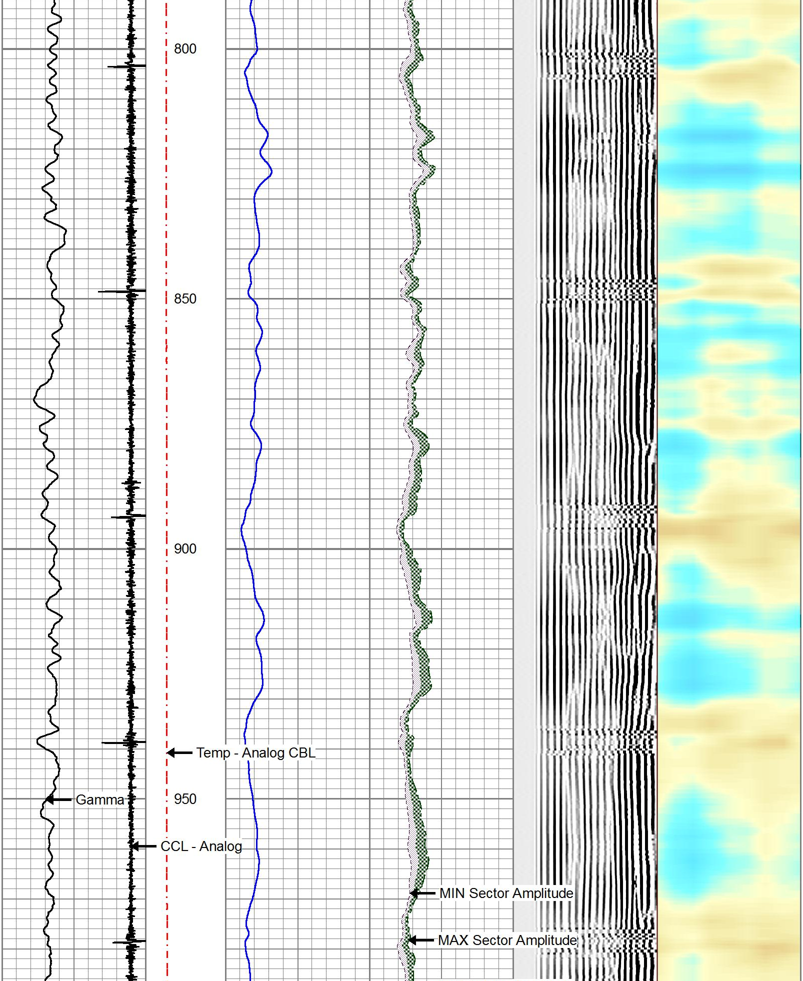
Database File	f:\2018_02_21_extraction_milkshake_31w_20_1n_cbl.db
Dataset Pathname	MAINPASS
Presentation Format	rcbl_8s
Dataset Creation	Wed Feb 21 18:06:28 2018
Charted by	Depth in Feet scaled 1:240

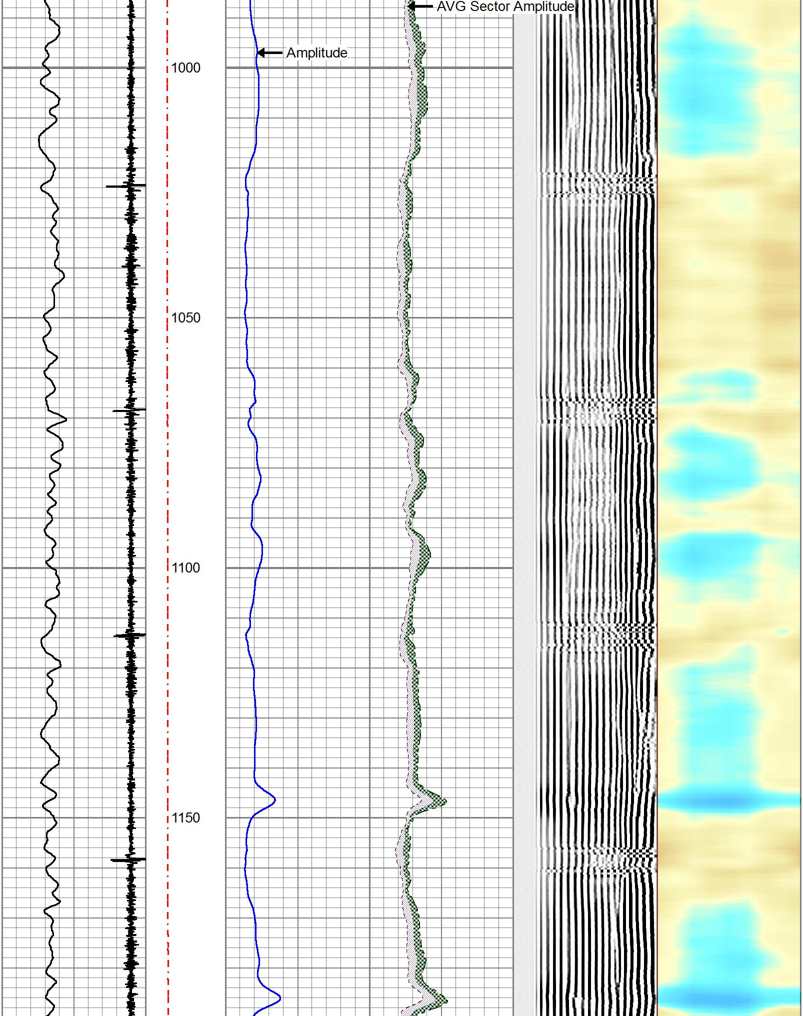


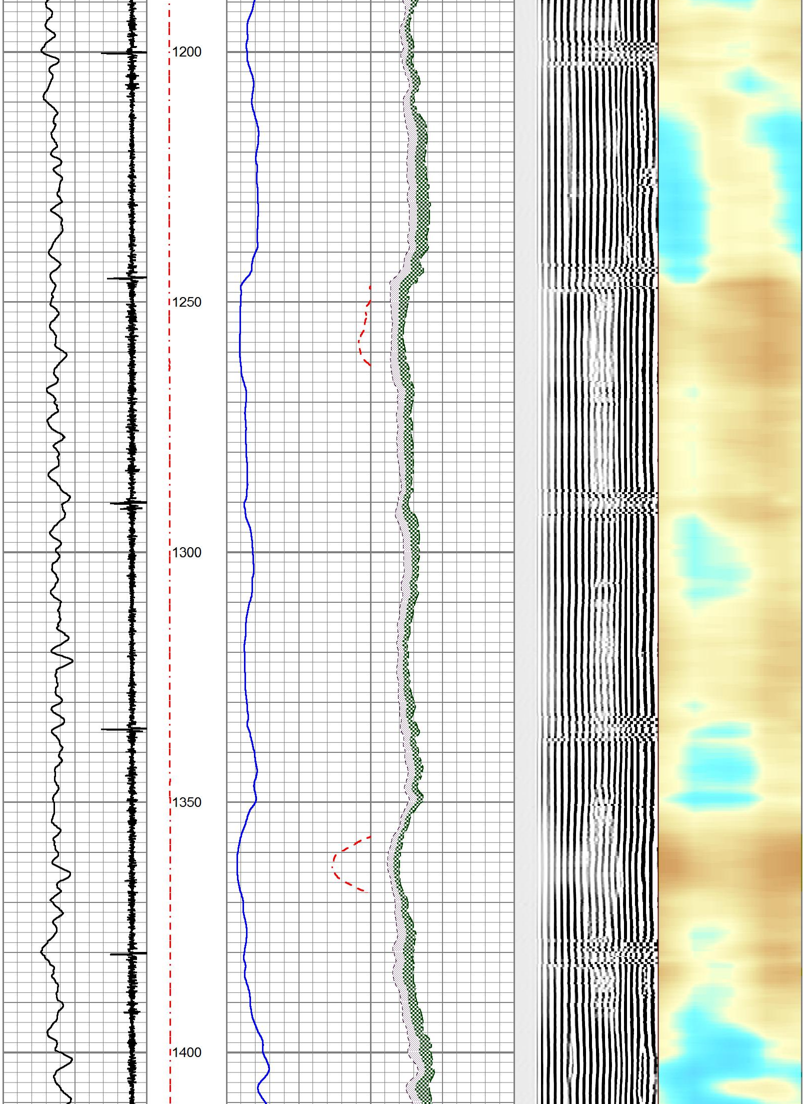


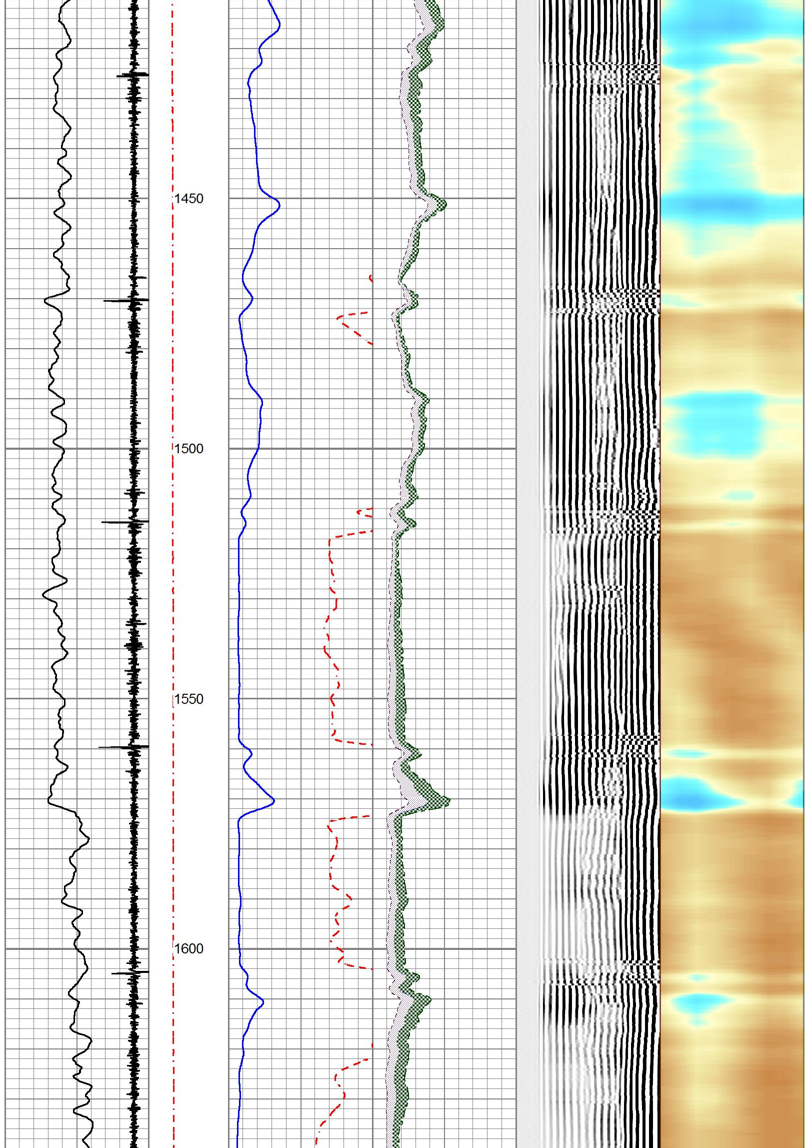


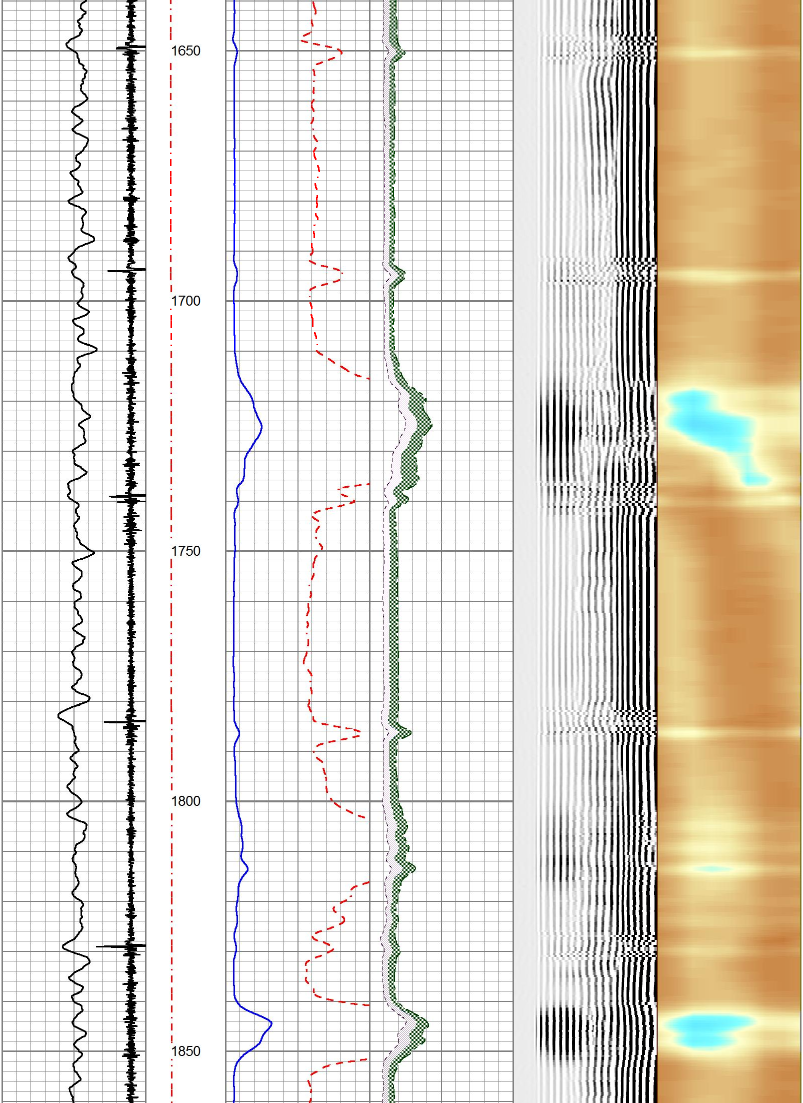


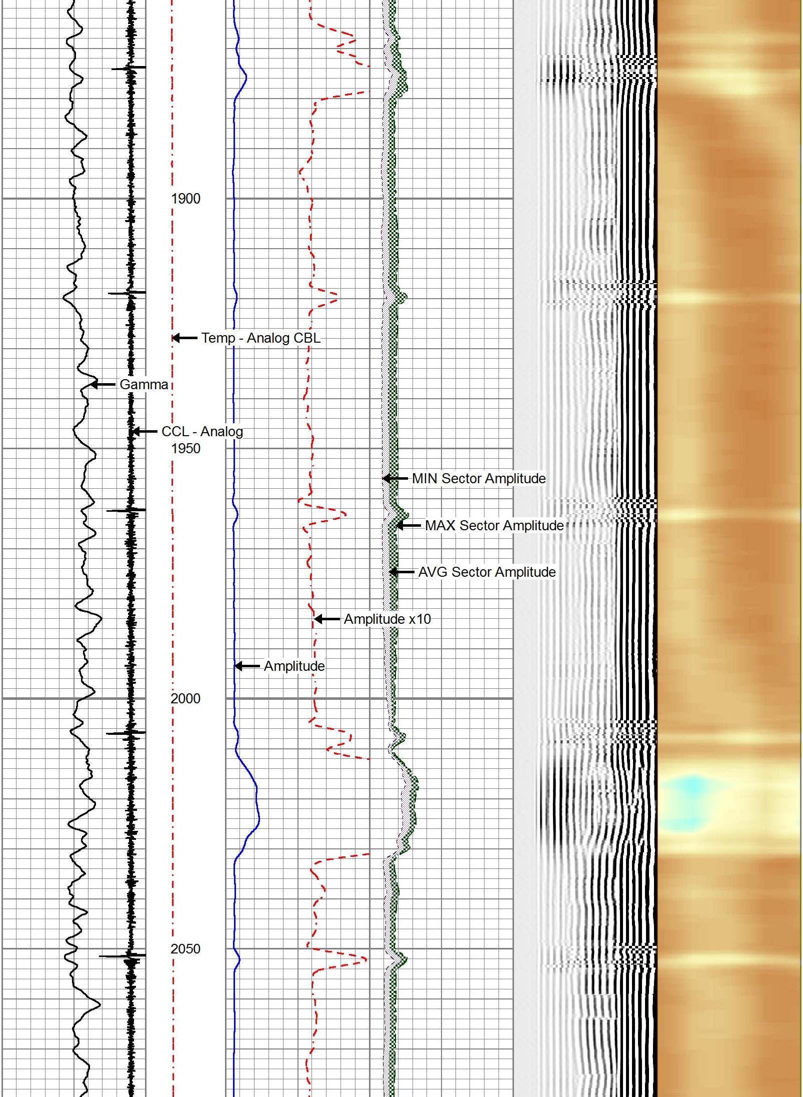


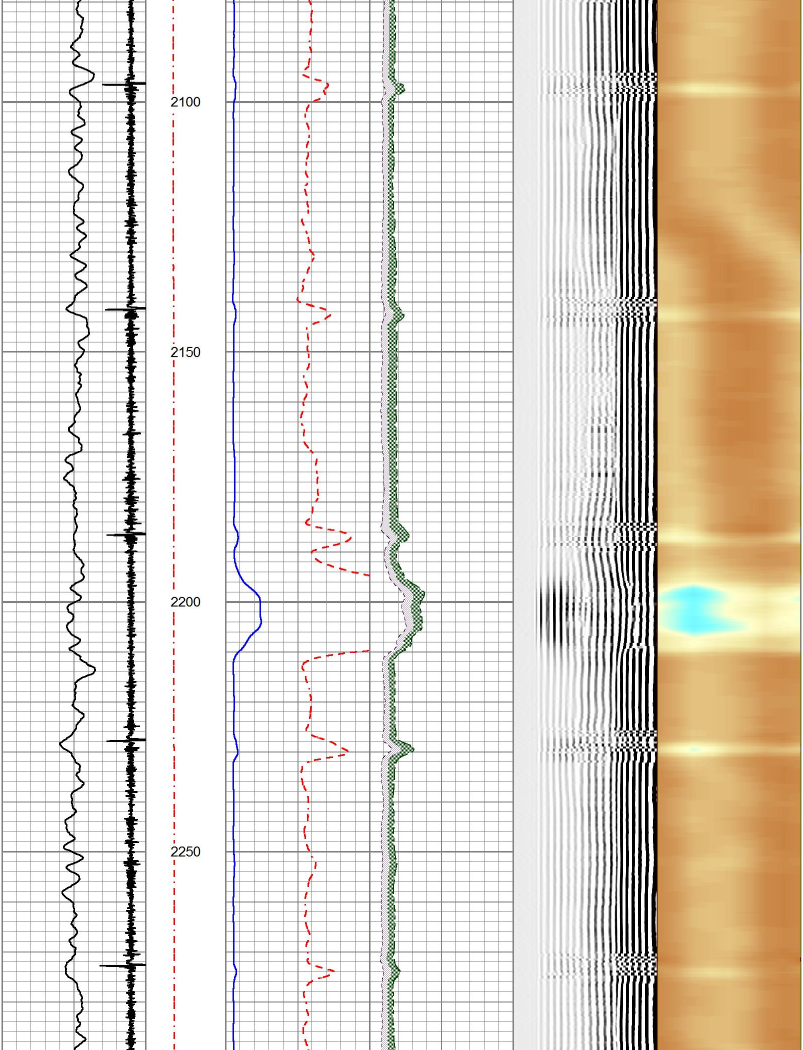


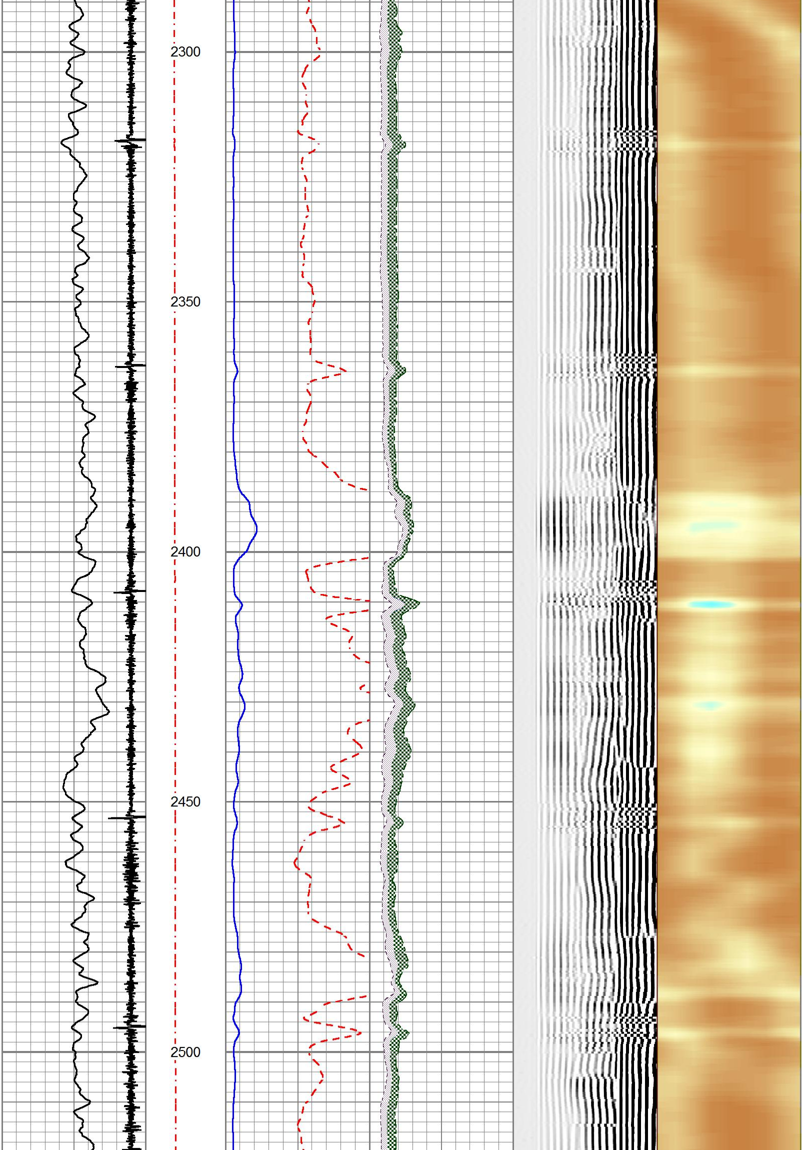


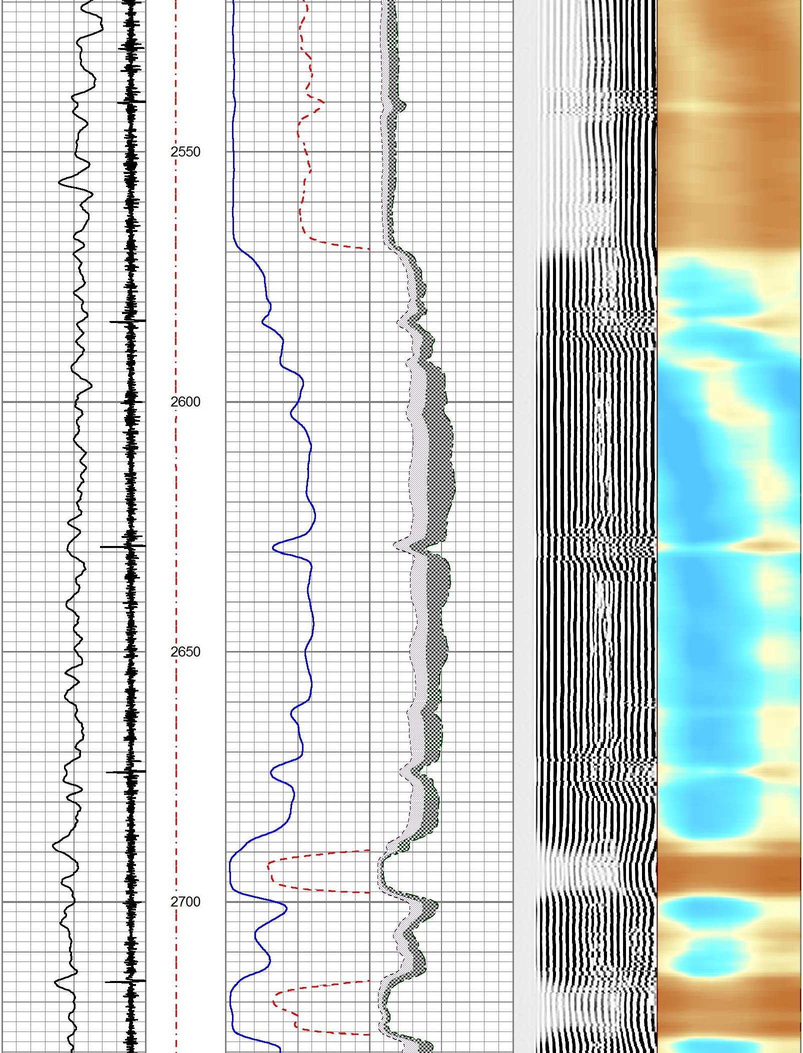


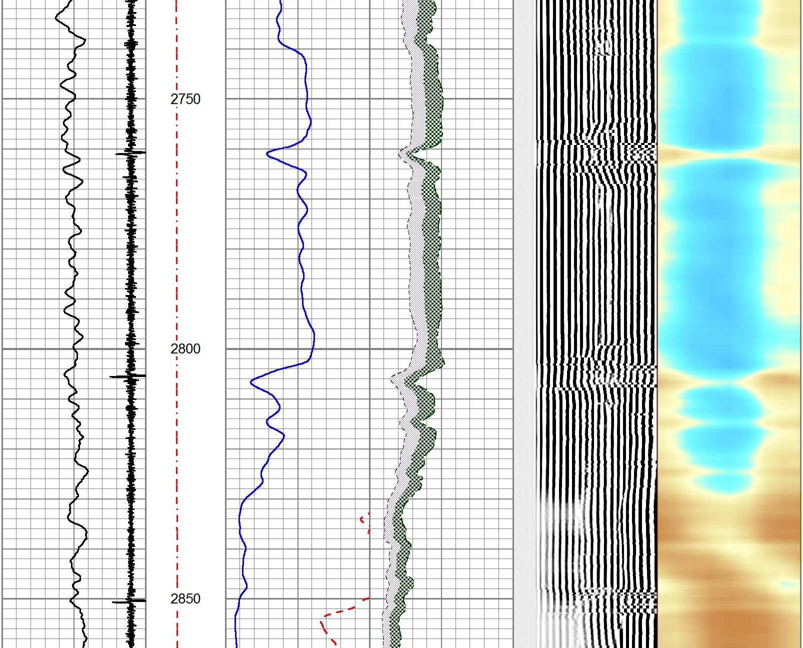












2900
Temp - Analog CBL
MIN Sector Amplitude
Gamma
MAX Sector Amplitude
CCL - Anlog
AVG Sector Amplitude
Amplitude x10
2950
3000
Amplitude
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750
3800
3850
3900
Temp - Analog CBL
MIN Sector Amplitude
Gamma
MAX Sector Amplitude
CCL - Anlog
AVG Sector Amplitude
3950
4000
Amplitude
4050
4100
4150
4200
4250
4300
4350
4400
4450
4500
4550
4600
4650
4700
4750
4800
4850
4900
Temp - Analog CBL
MIN Sector Amplitude
Gamma
MAX Sector Amplitude
CCL - Anlog
AVG Sector Amplitude
4950
5000
Amplitude
5050
5100
5150
5200
5250
5300
5350
5400
5450
5500
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5600
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5750
5800
5850
5900
Temp - Analog CBL
MIN Sector Amplitude
Gamma
MAX Sector Amplitude
CCL - Anlog
AVG Sector Amplitude
5950
6000
Amplitude
6050
6100
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6750
6800
6850

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MAIN PASS - Ran with 0 PSI

5 in / 100 ft

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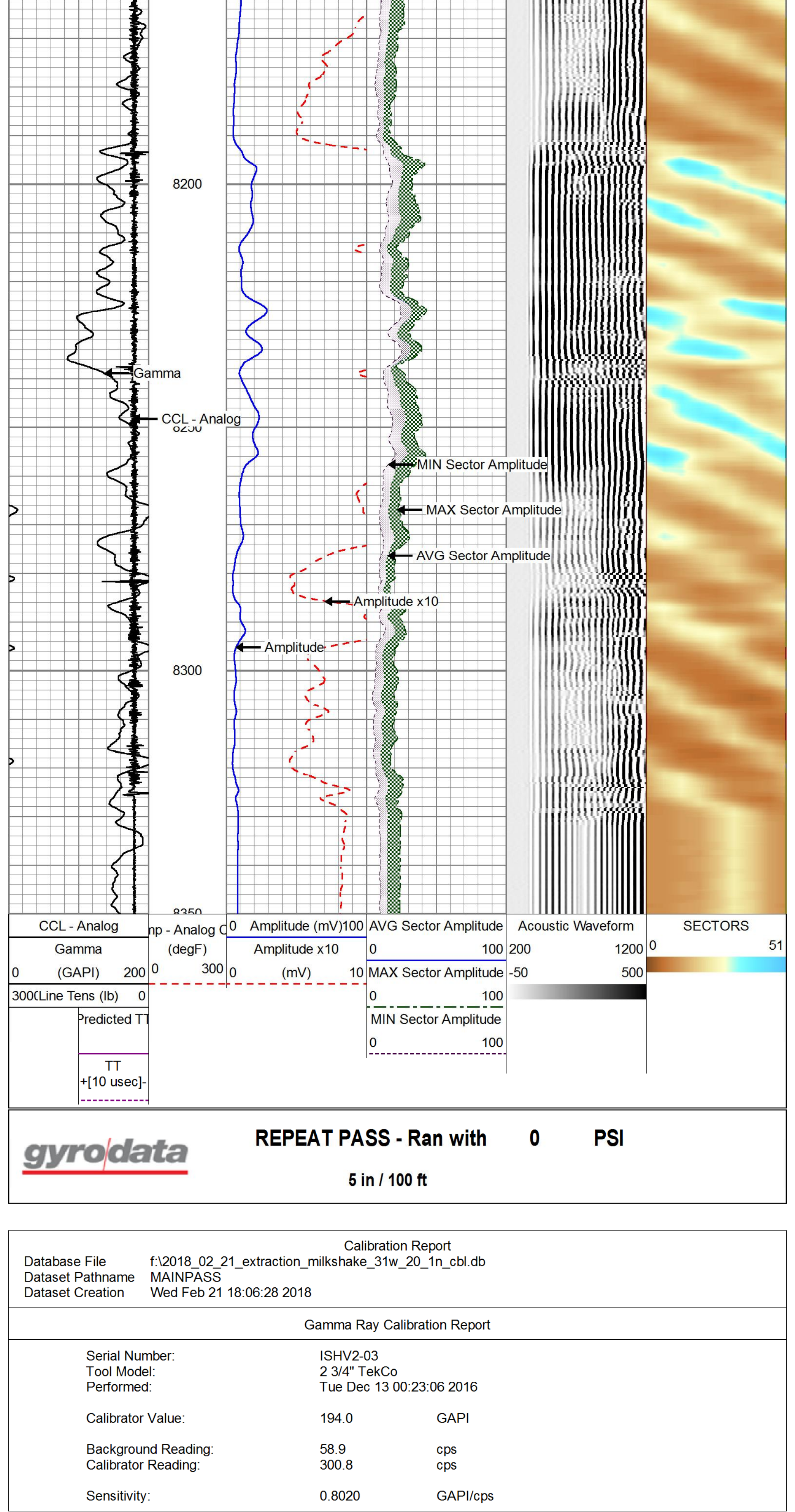
REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	f:\2018_02_21_extraction_milkshake_31w_20_1n_cbl.db
Dataset Pathname	REPEATPASS
Presentation Format	rcbl_8s
Dataset Creation	Wed Feb 21 18:16:18 2018
Charted by	Depth in Feet scaled 1:240



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REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Calibration Report

Database File	f:\2018_02_21_extraction_milkshake_31w_20_1n_cbl.db
Dataset Pathname	MAINPASS
Dataset Creation	Wed Feb 21 18:06:28 2018

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:	7.000	in
Calibration Depth:	1695.927	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.008	0.864	1.200	71.900	81.076	1.813
CAL	0.000	0.422				
5'	-0.007	1.250	1.200	71.900	56.218	1.606
SUM						
S1	0.003	0.985	1.200	71.900	71.992	1.007
S2	0.003	0.922	1.200	71.900	76.938	0.969
S3	0.003	0.989	1.200	71.900	71.767	0.954
S4	0.004	1.048	1.200	71.900	67.714	0.927
S5	0.006	1.035	1.200	71.900	68.682	0.798
S6	0.008	0.962	1.200	71.900	74.086	0.624
S7	0.007	1.041	1.200	71.900	68.394	0.711
S8	0.004	0.973	1.200	71.900	72.959	0.900

Internal Reference Calibration, performed Mon Dec 12 13:09:14 2016:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.422	0.000	0.422	1.000	0.000

Air Zero Calibration, performed Mon Dec 12 13:09:14 2016:

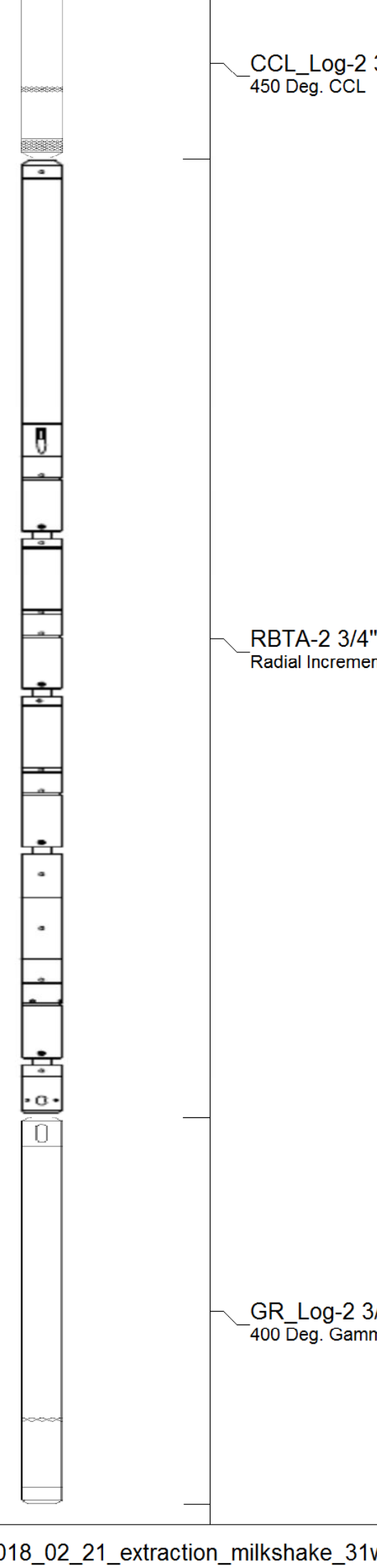
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

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)	Description	Length (ft)	O.D. (in)	Weight (lb)
		CableHead-TitanConeType2	1.03	1.44	3.60
CCL	13.50	CCL_Log-2 3/4" TekCo (IPSN7-03) 450 Deg. CCL	1.83	2.75	33.00
TEMP	10.05				
WVFS8	8.76				
WVFS7	8.76				
WVFS6	8.76				
WVFS5	8.76	RBTA-2 3/4" RIB Analog (IPPO2-01) Radial Incremented Bond Tool with Temp	9.13	2.75	102.00
WVFS4	8.76				
WVFS3	8.76				
WVFS2	8.76				
WVFS1	8.76				
WVF3FT	8.01				
WVF5FT	7.01				
WVFSYNC	3.68				
WVFTEMP	3.68				
WVFCAL	3.68				
GR	1.04	GR_Log-2 3/4" TekCo (ISHV2-03) 400 Deg. Gamma Ray	3.68	2.75	47.00
LOCTIM	0.00				
UTCTIM	0.00				

Dataset: 2018_02_21_extraction_milkshake_31w_20_1n_cbl.db: field/well/run1/MAINPASS
Total length: 15.67 ft
Total weight: 185.60 lb
O.D.: 2.75 in

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Company	Extraction Oil and Gas
Well	Milkshake 31W-20-1N
Field	Wattenberg
County	Weld
State	CO
Country	U.S.A.