gyrodata

CEMENT BOND LOG

Company	Extraction Oil and Gas
Well	ALMA 1S-66-25524 20CDH
Field	Wattenberg
County	Adams
State	CO

Company Extraction Oil and Gas
Well ALMA 1S-66-25524 20CDH
Field Wattenberg
County Adams **State** CO

API # : 05-001-10027
Location: 287' FSL & 1979' FEL
Lat: 39.929500
Long: -104.721850

SEC: 25 TWP: 1S RGE: 66W

Other Services

Elevation
K.B. 5201'
D.F. -----
G.L. 5173'

Permanent Datum: Ground Level Elevation: 5173'
Log Measured From: Kelly Bushing , 28 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	28 Nov 2017
Run Number	One
Plug Back T.D. Driller	-----
Plug Back T.D. Logger	-----
Bottom Logged Interval	8740'
Top Log Interval	Surface
Type Fluid	-----
Density / Viscosity	-----
Max. Recorded Temp.	229°F
Time Logger on Bottom	08:45
Equipment Number	GD 114
Location	Casper, WY
Recorded By	J. Baker
Witnessed By	H. Cary

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8"	36#	Surface	1500'				
5 1/2"	20#	Surface	16,250'				

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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 # : RM1117WLOW799
Your Crew Today: J. Adams, T. Staker
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	778'
40 % Bond	800'
60 % Bond	998'
80 % Bond	1590'
100 % Bond	2658'

Comments

Marker Joint located at 7,963'

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\2017_11_28_extraction_alma_1s_66_2524_20cdh\2017_11_28_extraction
Dataset field/well/run1/merge1/_vars_

Top - Bottom

BHTEMP_Src	BOREID	BOTTEMP	CASEOD	CASETHCK	CASEWGHT	MAXAMPL	MaxAPIID
	in	degF	in	in	lb/ft	mV	in
TEMP	8.5	229	5.5	0.361	20	71.9	4.923

MaxAPIWall	MINAMPL	MinAPIID	MINATTN	PPT
in	mV	in	db/ft	usec
0.361	1.9	4.751	0	242

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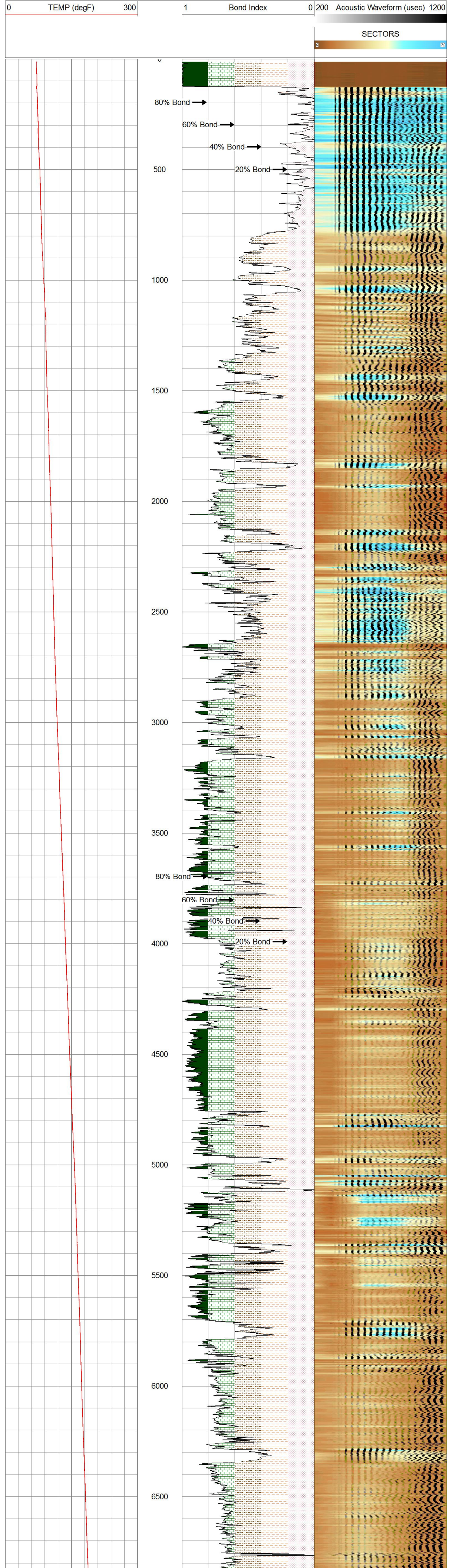
BOND INDEX

Database File	2017_11_28_extraction_alma_1s_66_2524_20cdh\2017_11_28_extraction_alma_1s_66_2524_20cdh.db
Dataset Pathname	merge1.1
Presentation Format	bndindx_msg-sec
Dataset Creation	Tue Nov 28 11:15:18 2017
Charted by	Depth in Feet scaled 1:3000



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BOND INDEX

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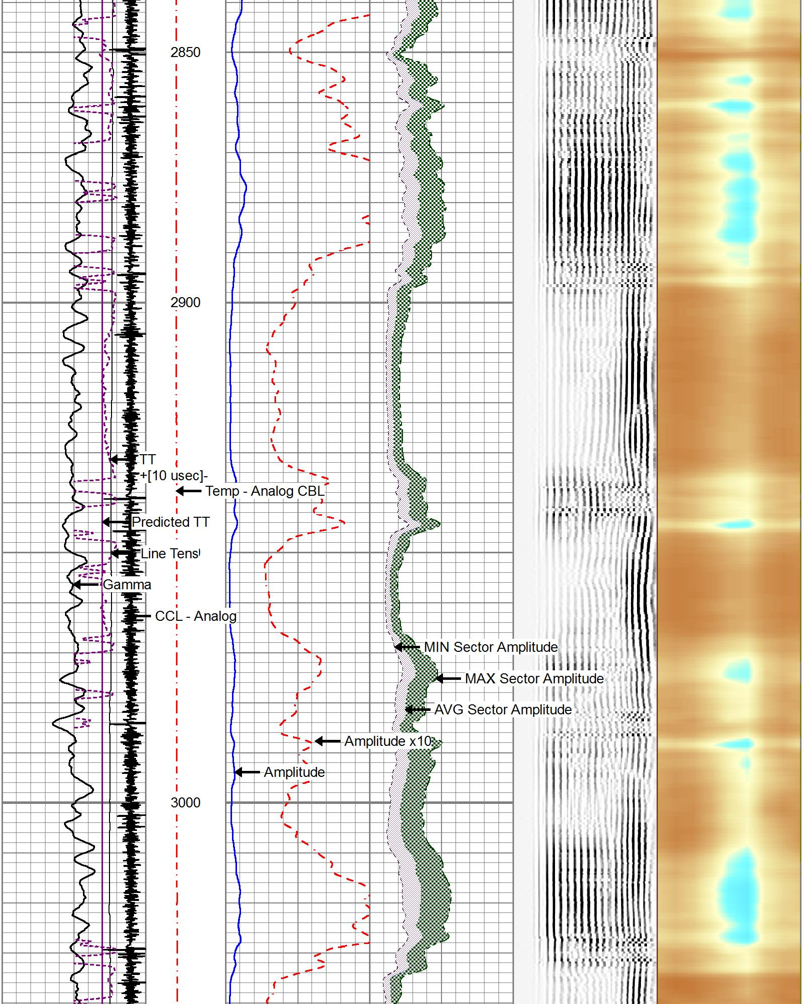
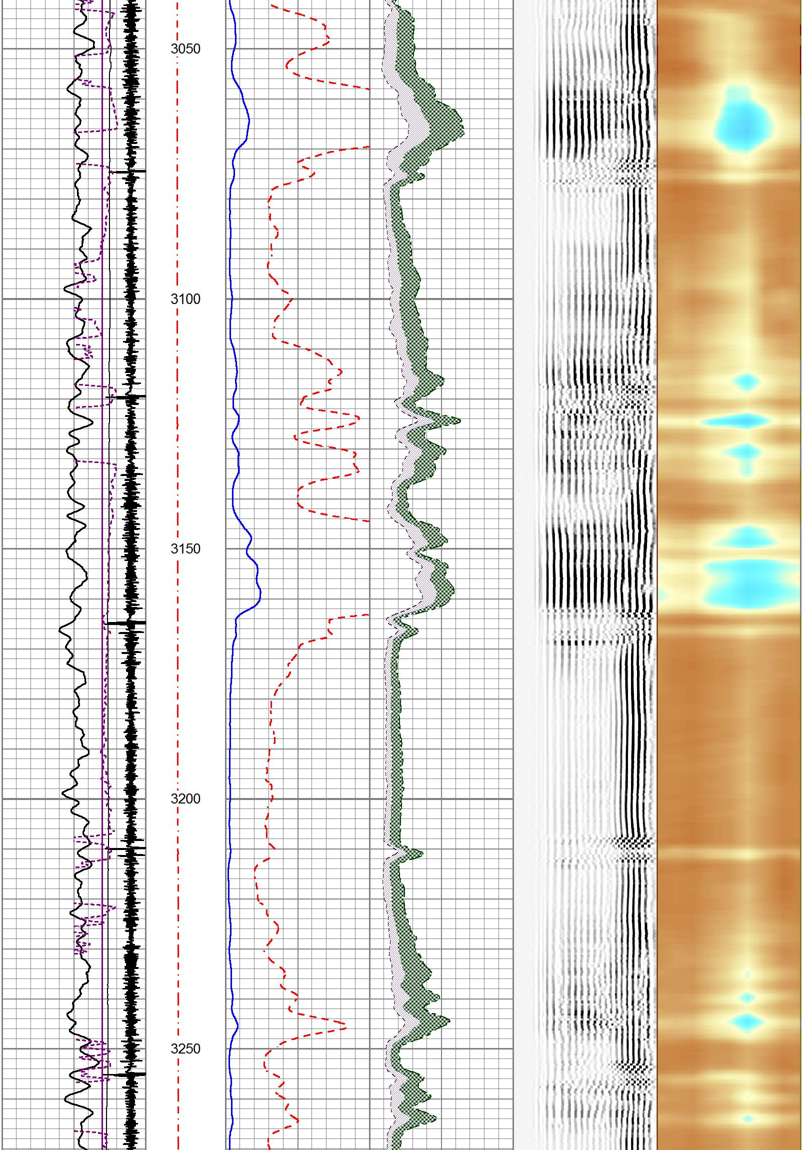
MAIN PASS - Ran with 0 PSI

5 in / 100 ft

Database File	2017_11_28_extraction_alma_1s_66_2524_20cdh\2017_11_28_extraction_alma_1s_66_2524_20cdh.db
Dataset Pathname	merge1
Presentation Format	rcbl_8s
Dataset Creation	Tue Nov 28 10:51:34 2017
Charted by	Depth in Feet scaled 1:240


2850
2900
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
Amplitude
3000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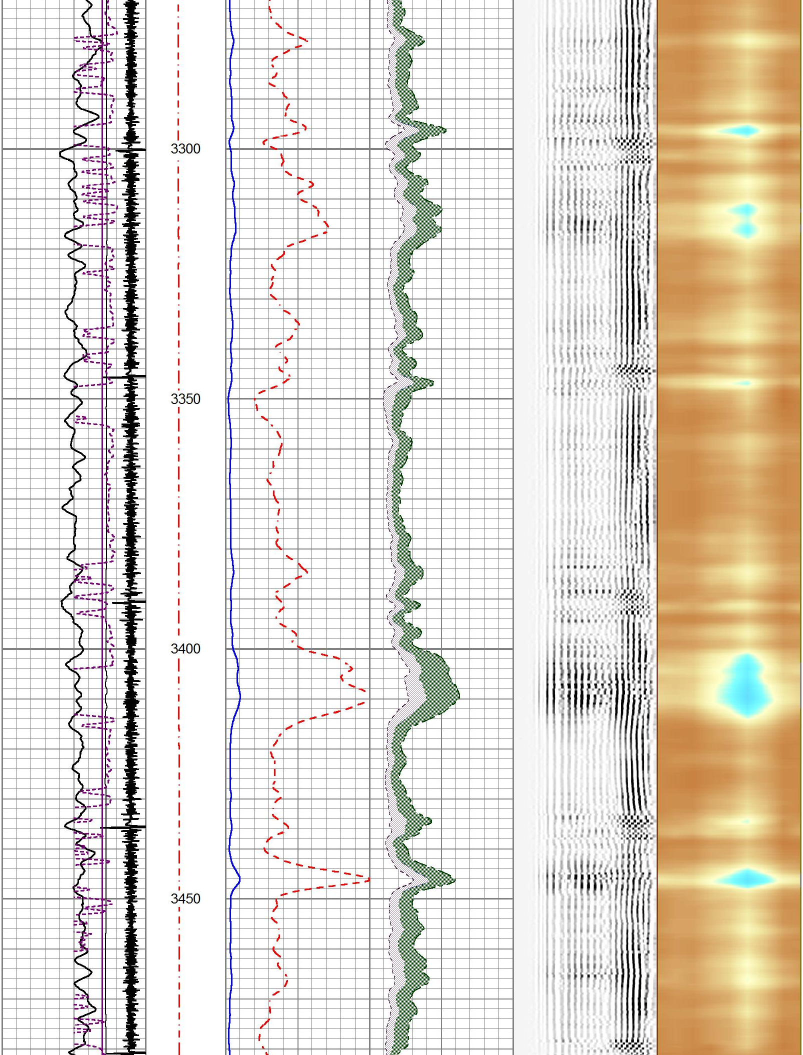
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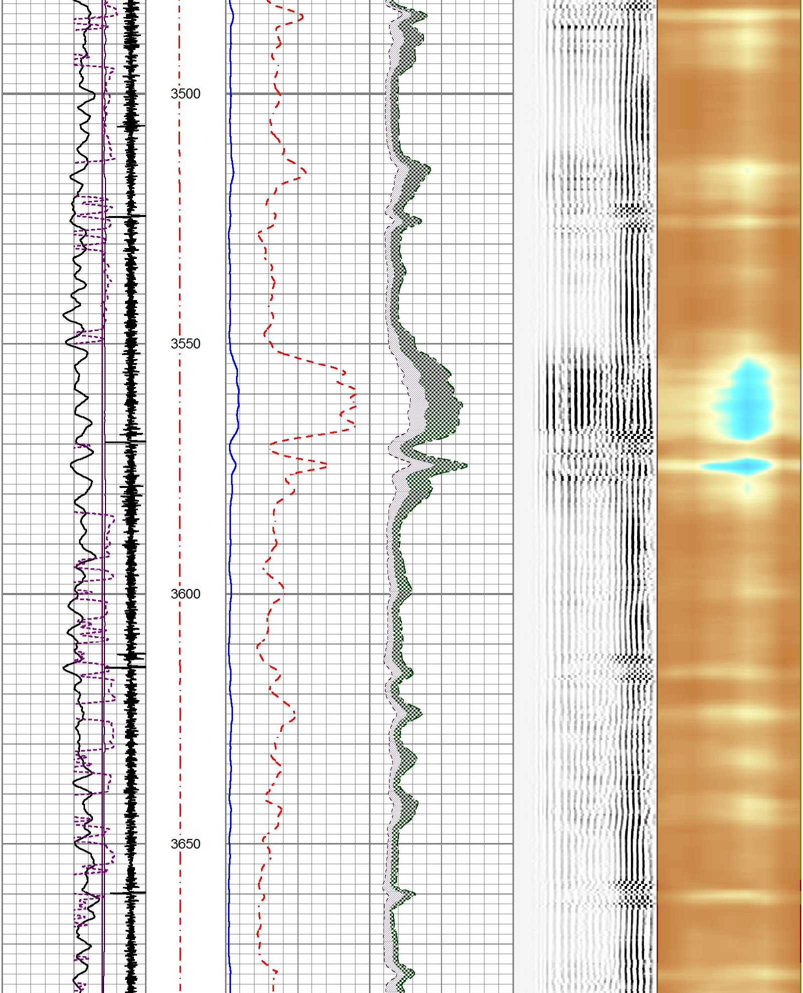
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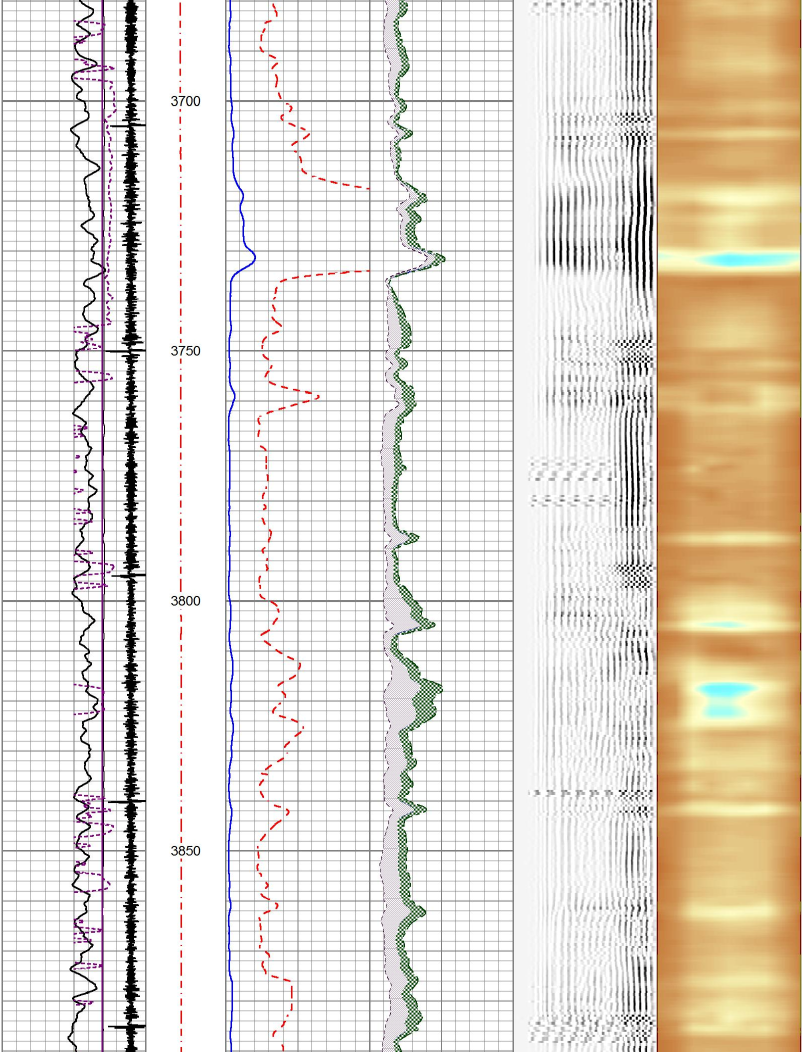
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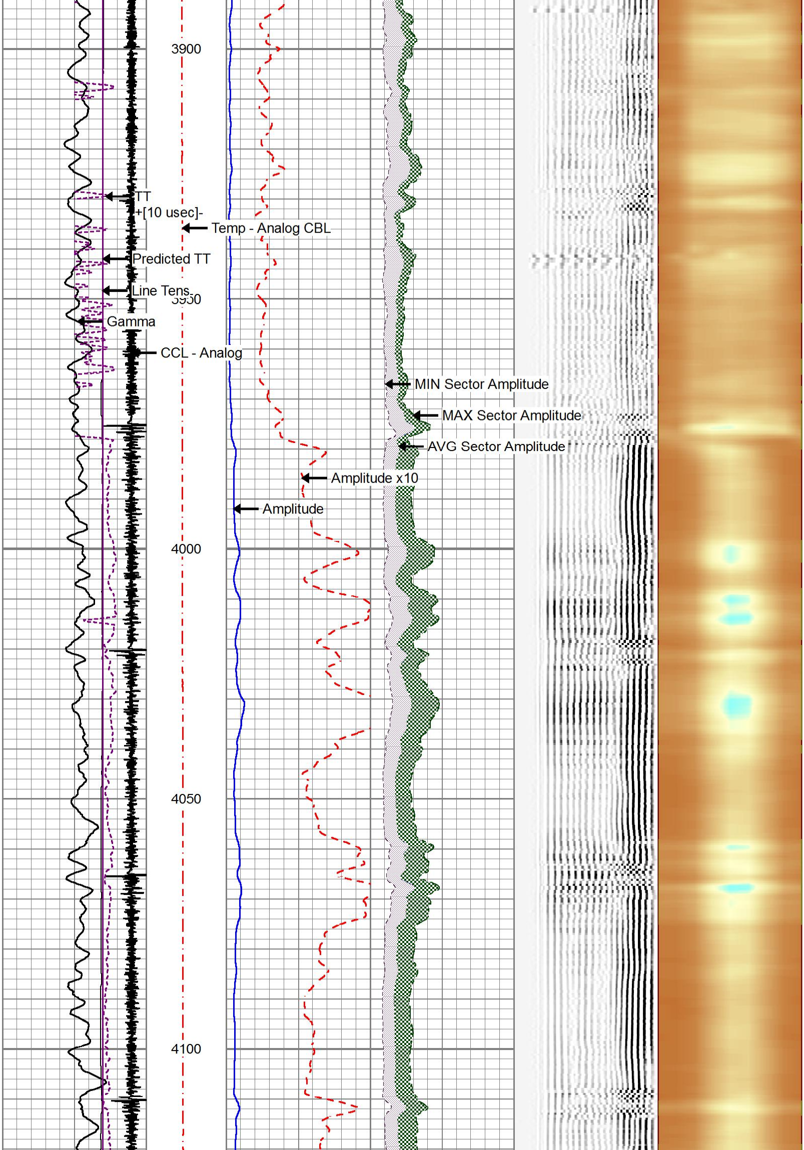
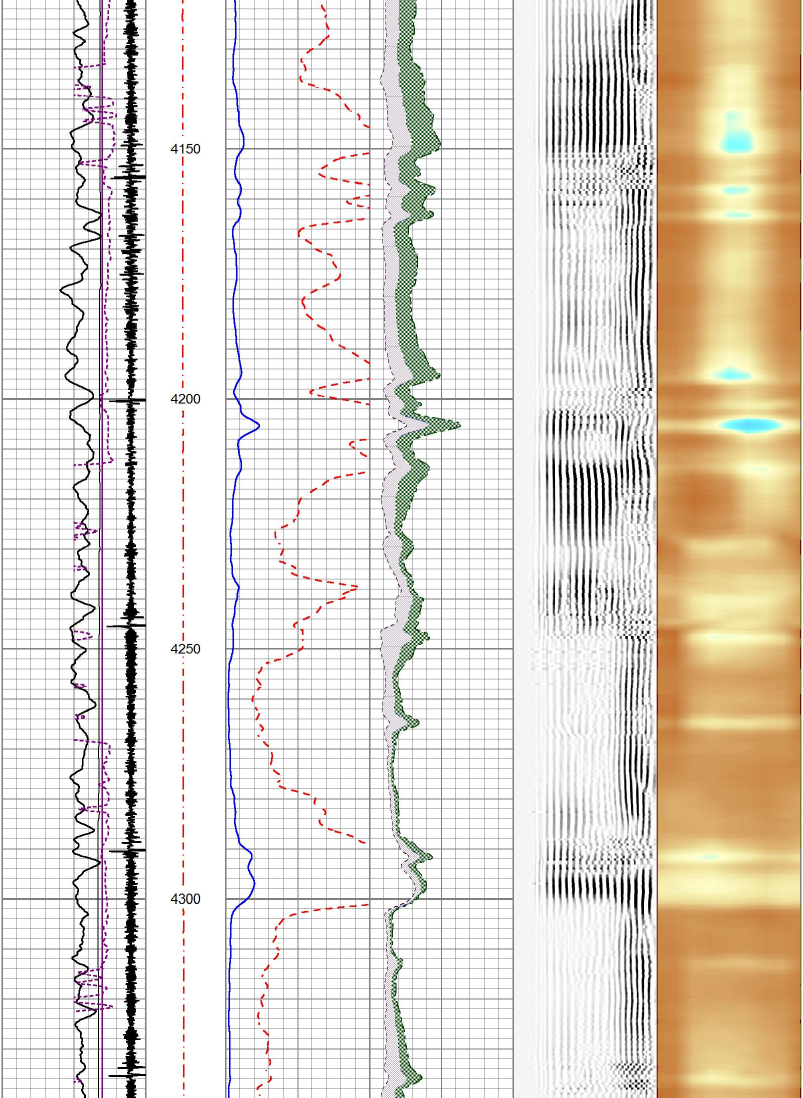

3900
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens.
3950
Gamma
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
Amplitude
4000
4050
4100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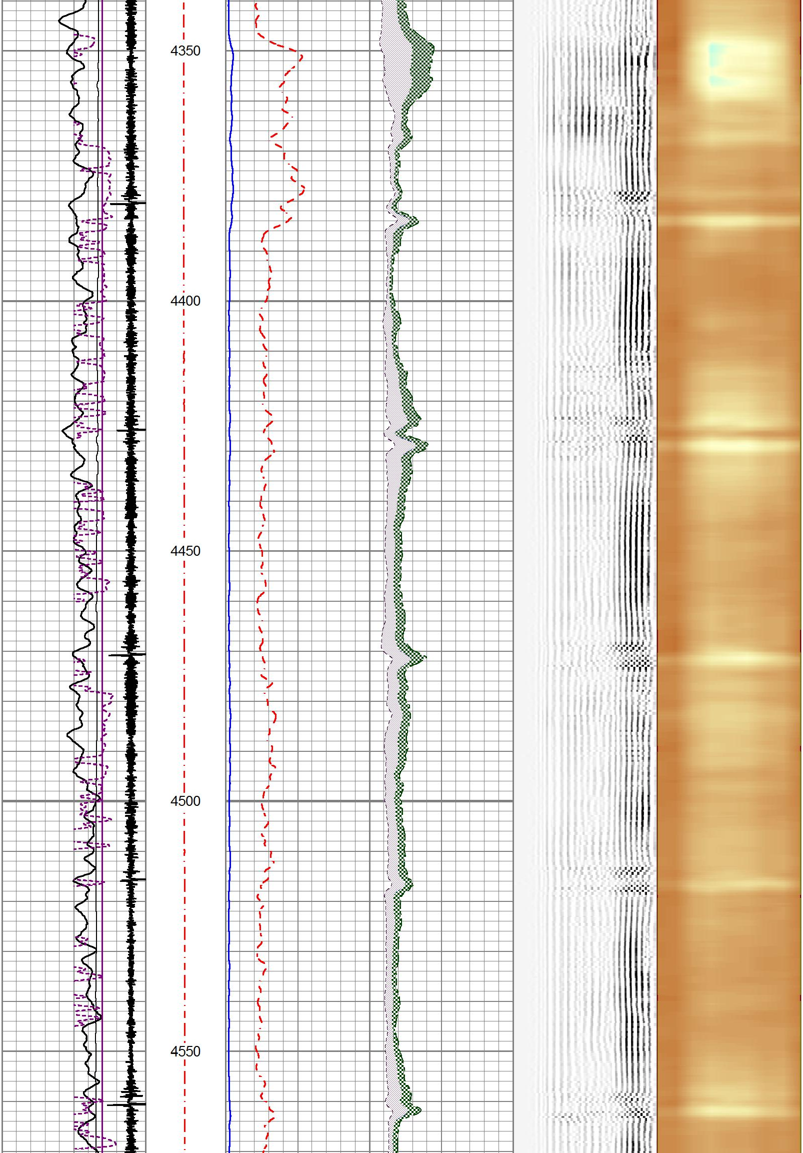
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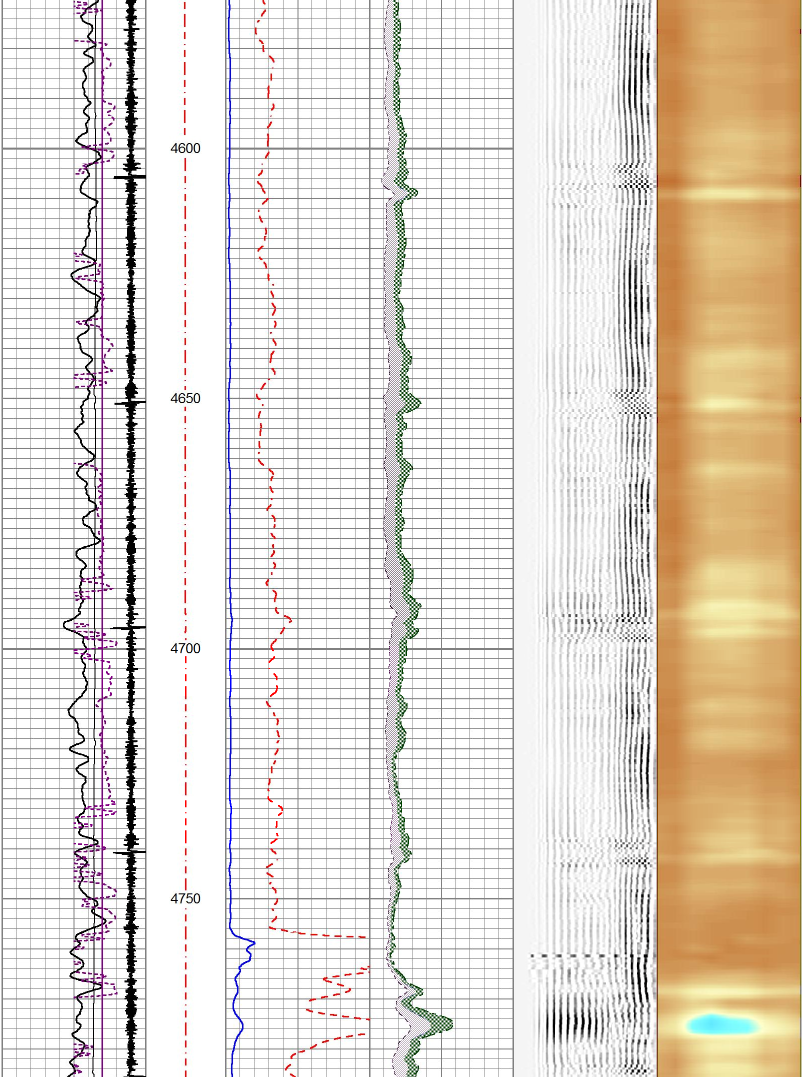
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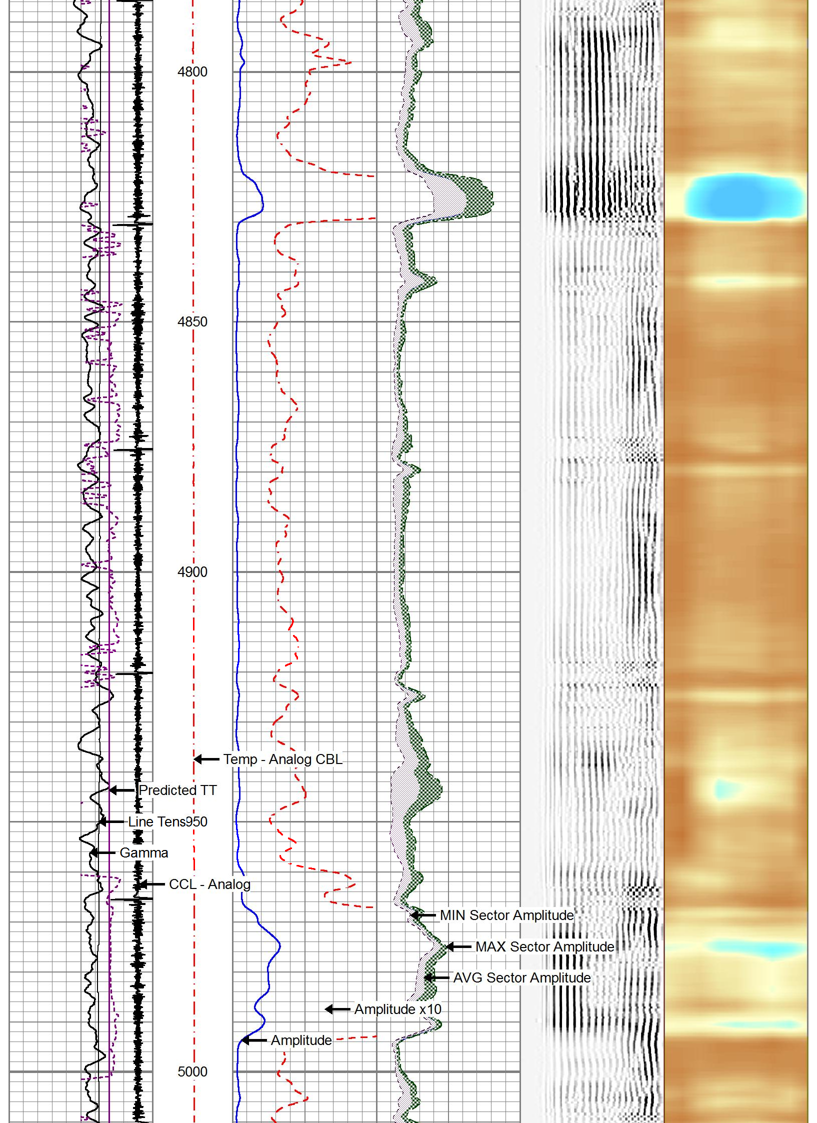
4750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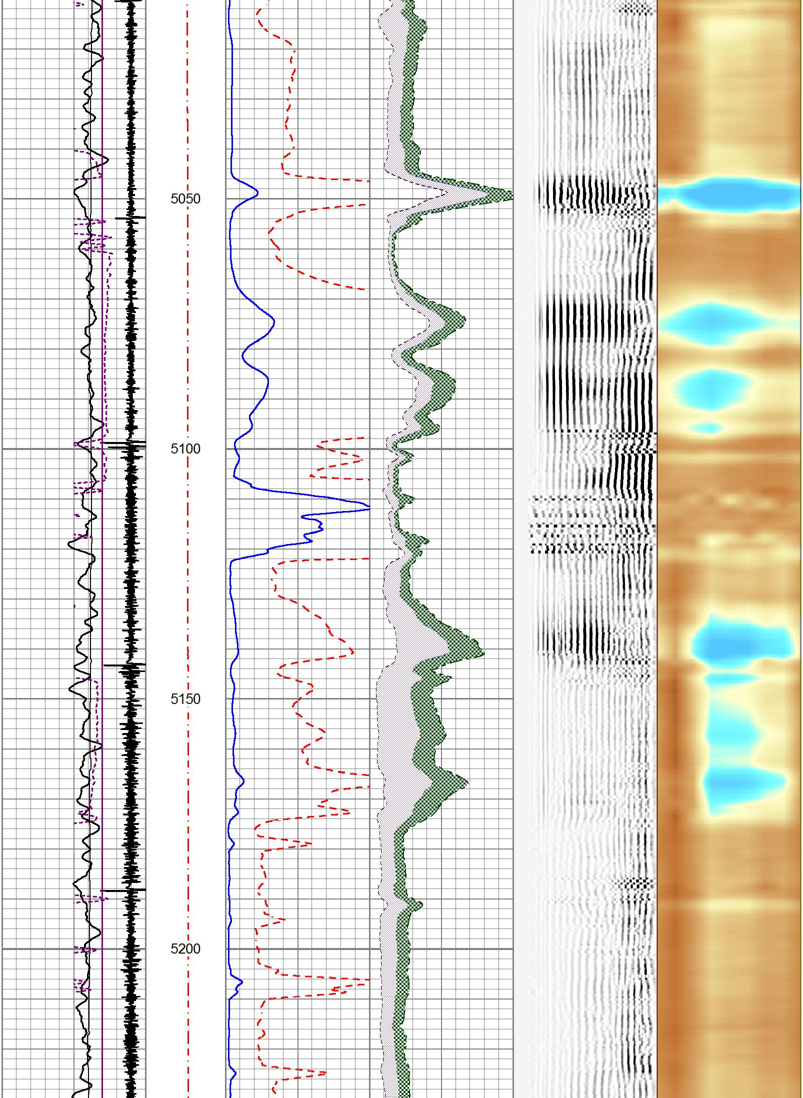
4850
4900
Temp - Analog CBL
Predicted TT
Line Tens950
Gamma
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
Amplitude
5000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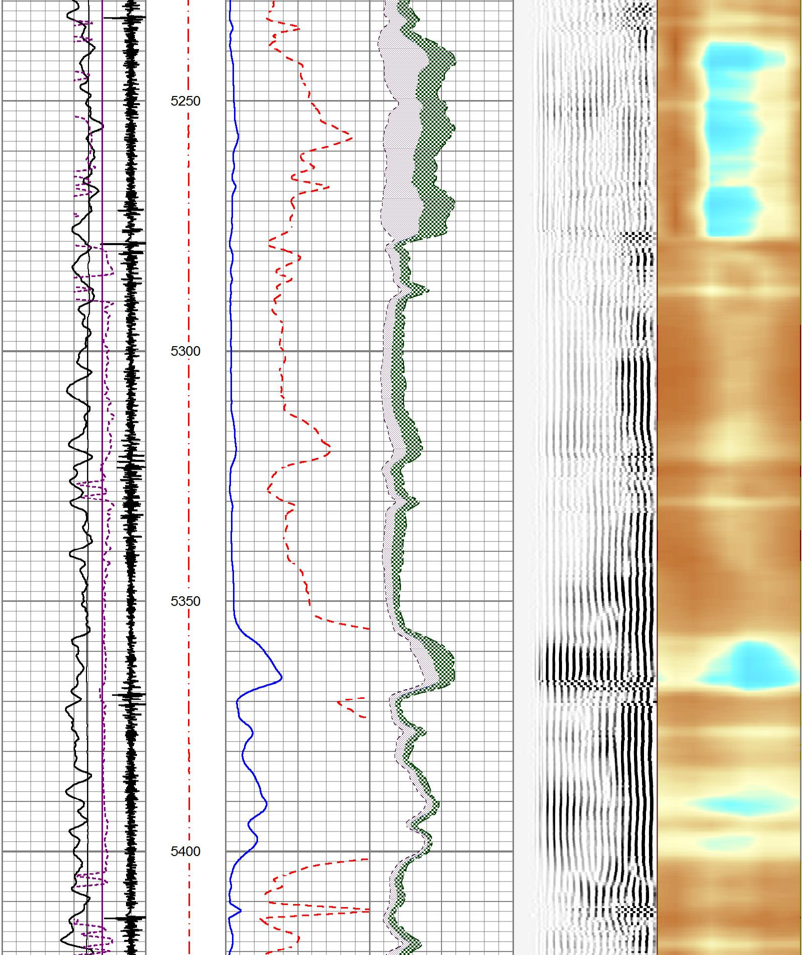
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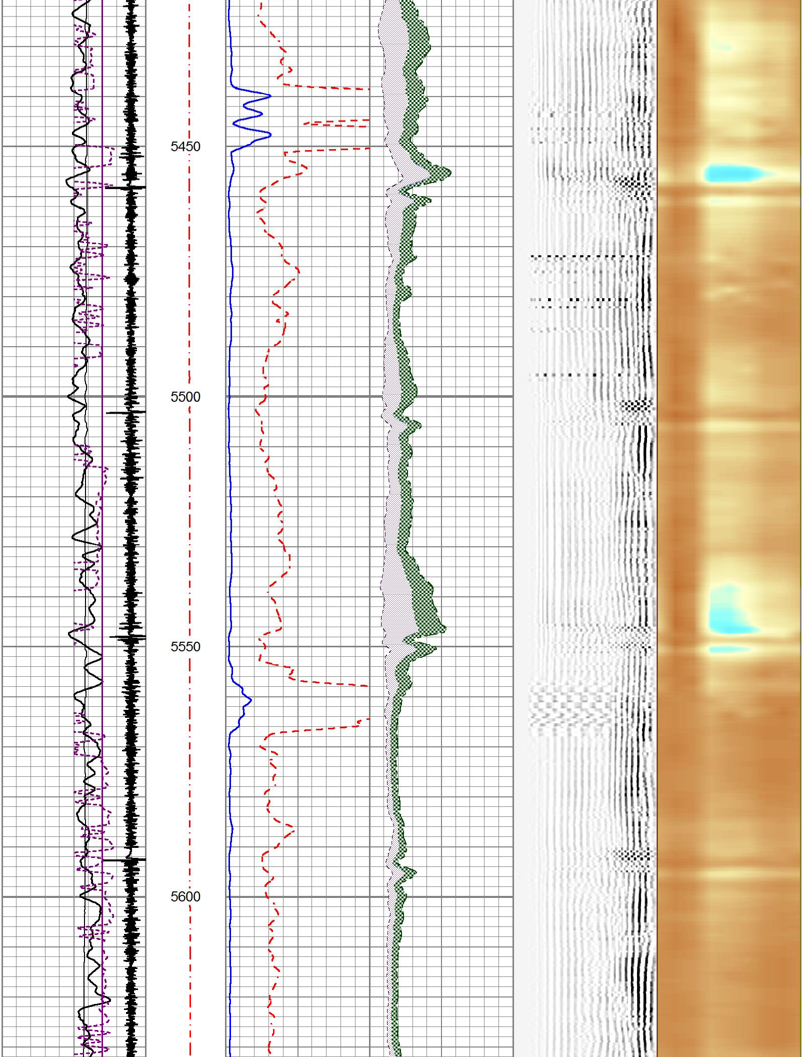
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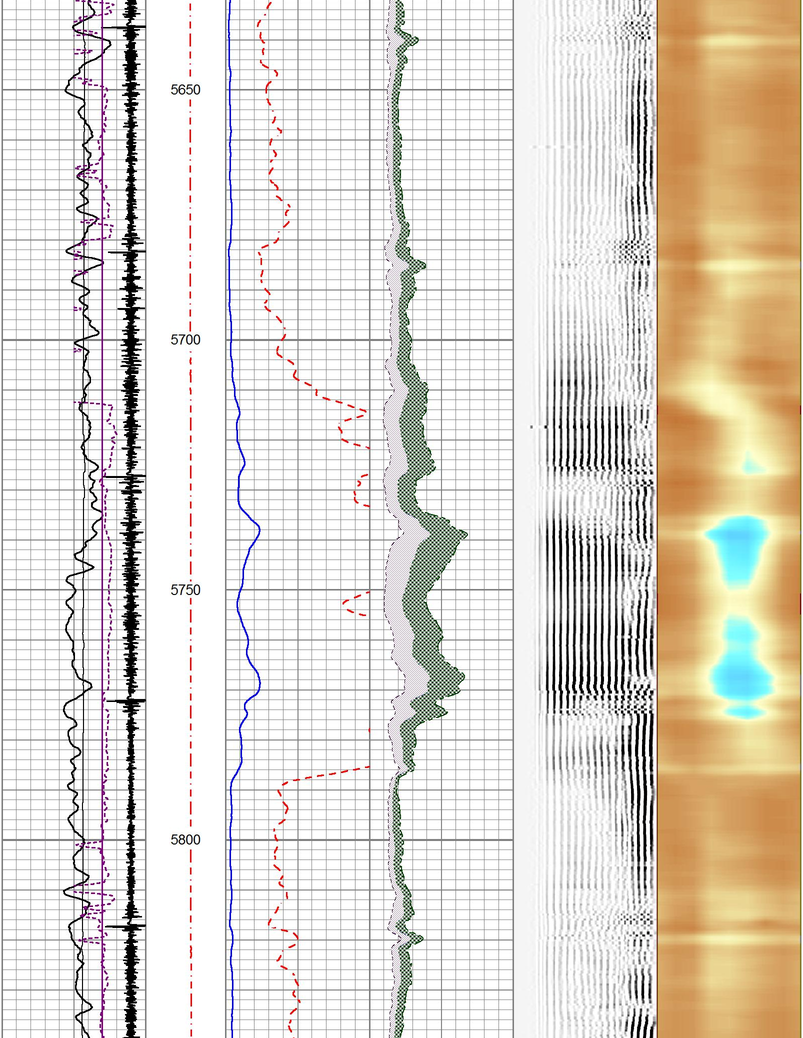
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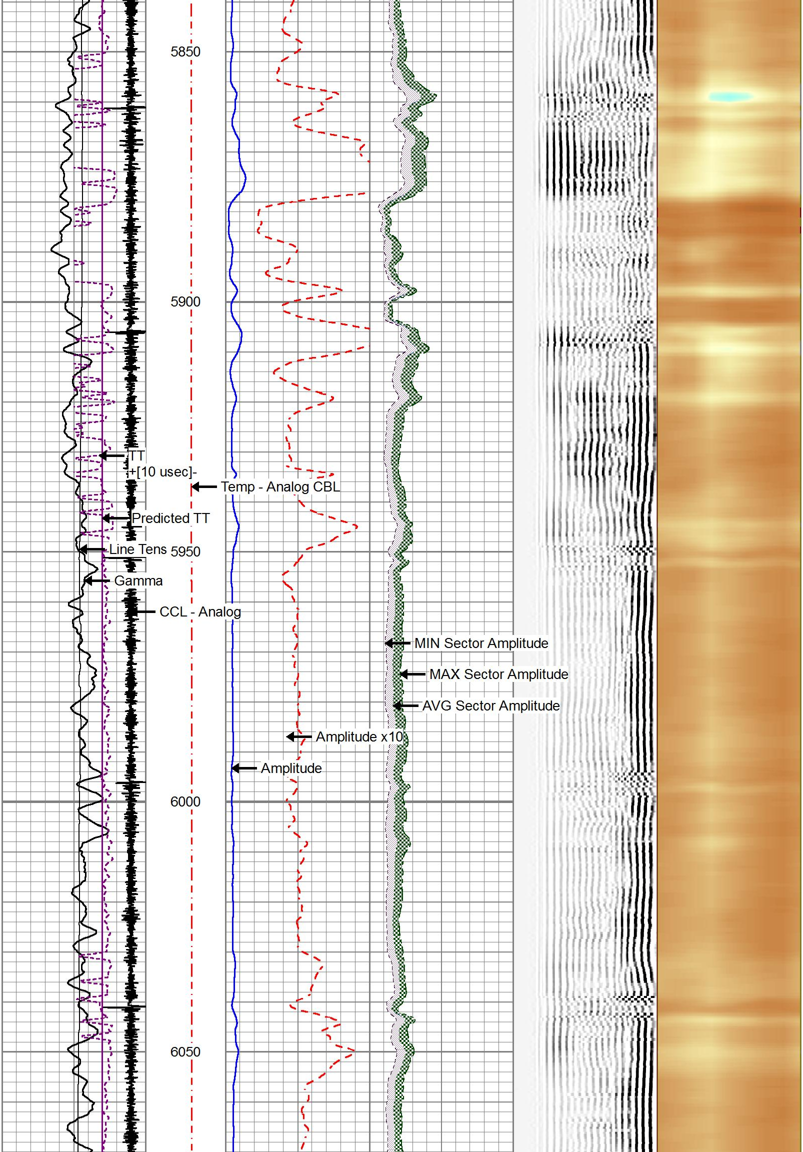
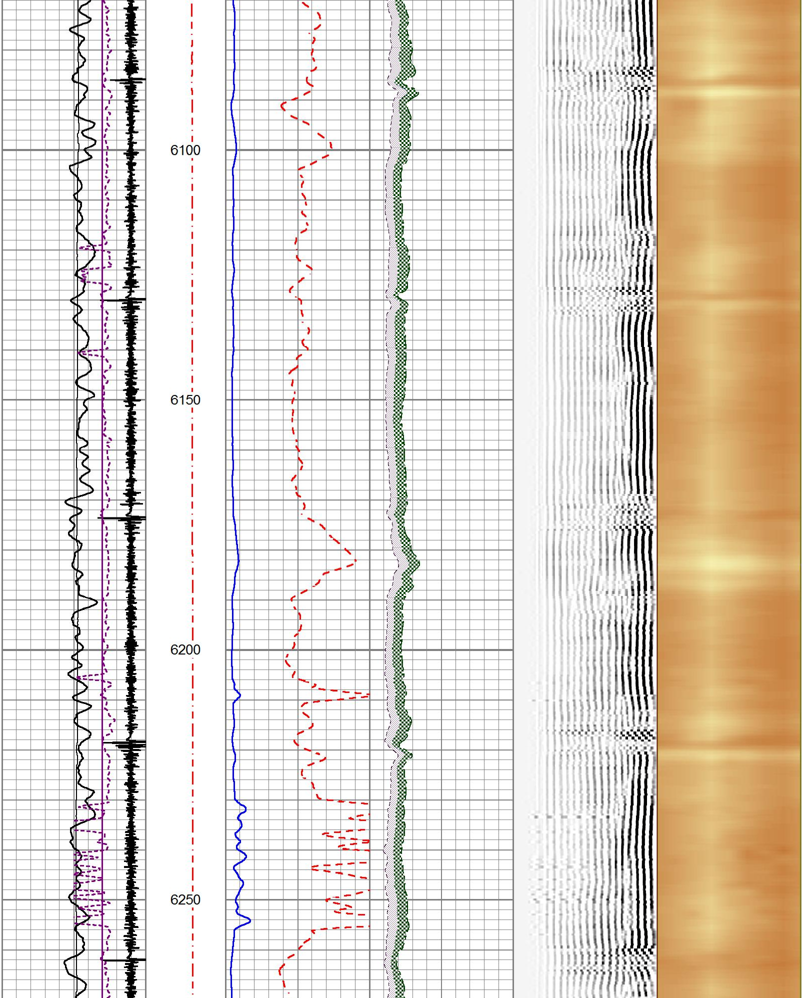

5850
5900
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
5950
Gamma
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
Amplitude
6000
6050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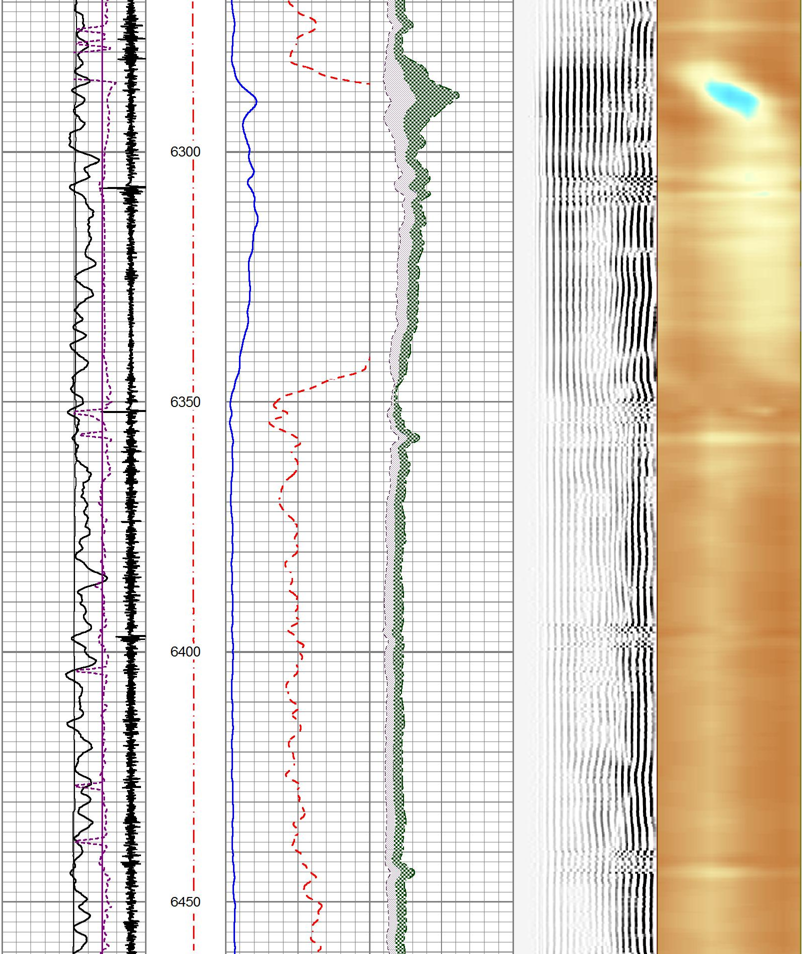
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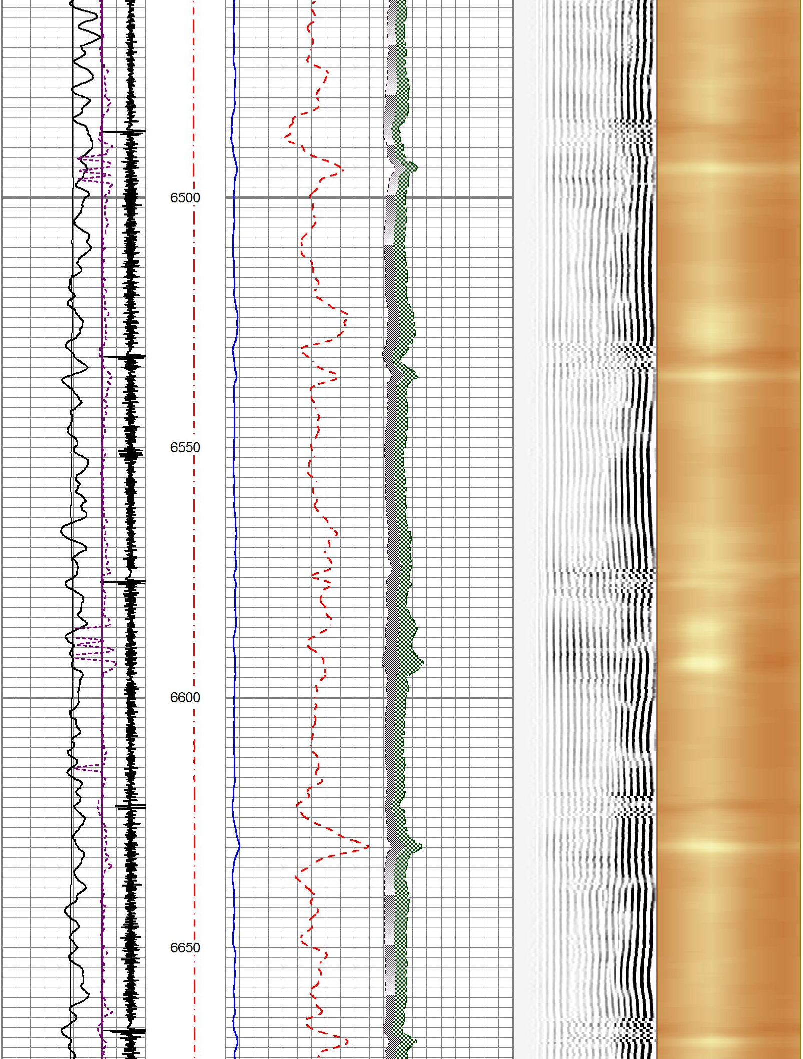
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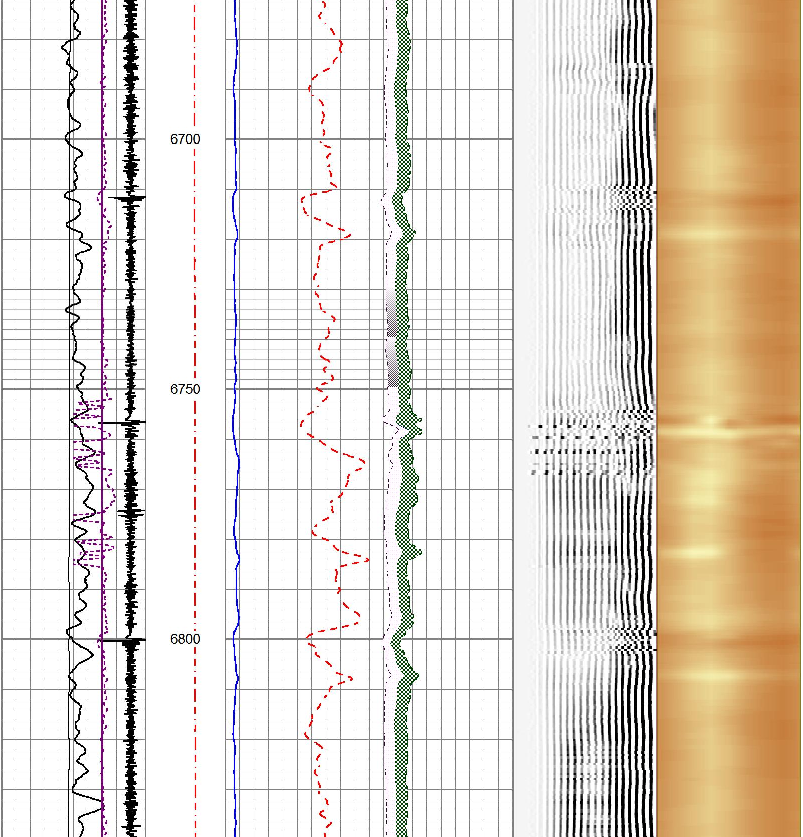
6700
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6800

CCL - Analog	np - Analog C	0 Amplitude (mV)100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma 0 (GAPI) 200	(degF) 0 300	Amplitude x10 0 (mV) 10	0 100	200 (usec) 1200	0 72
Line Tens 3000 (lb) 0			MAX Sector Amplitude 0 100		
Predicted TT			MIN Sector Amplitude 0 100		
TT +[10 usec]-					

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MAIN PASS - Ran with 0 PSI

5 in / 100 ft

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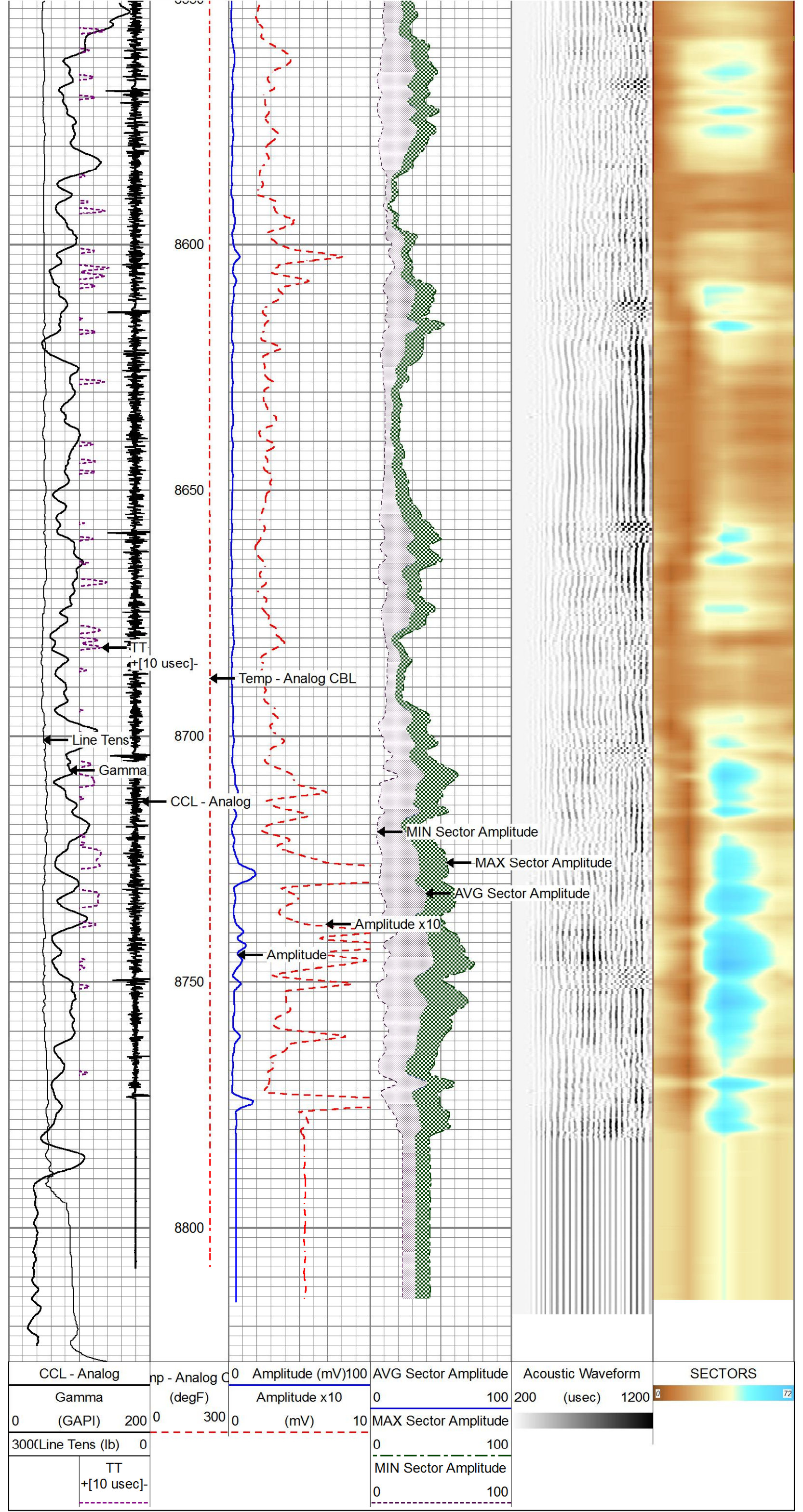
REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	2017_11_28_extraction_alma_1s_66_2524_20cdh\2017_11_28_extraction_alma_1s_66_2524_20cdh.db
Dataset Pathname	pass3.1
Presentation Format	rcbl_8s
Dataset Creation	Tue Nov 28 11:08:43 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 0 (GAPI) 200	(degF) 0 300	Amplitude x10 0 (mV) 10	0 100	200 (usec) 1200	0 72
300(Line Tens (lb) 0			MAX Sector Amplitude 0 100		
TT +[10 usec]-			MIN Sector Amplitude 0 100		



CCL - Analog	np - Analog C	0 Amplitude (mV)100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma 0 (GAPI) 200	(degF) 0 300	Amplitude x10 0 (mV) 10	0 100	200 (usec) 1200	0 72
300(Line Tens (lb) 0			MAX Sector Amplitude 0 100		
TT +[10 usec]-			MIN Sector Amplitude 0 100		

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REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Calibration Report

Database File	d:\warrior\data\2017_11_28_extraction_alma_1s_66_2524_20cdh\2017_11_28_extraction_alma_1s_66_252
Dataset Pathname	merge1
Dataset Creation	Tue Nov 28 10:51:34 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:	350.913	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.125	1.900	71.921	81.714	1.843
CAL	-0.009	0.722				
5'	-0.008	1.547	1.900	71.921	69.859	2.408
SUM						
S1	0.021	1.712	1.900	71.921	41.406	1.046
S2	0.023	1.672	1.900	71.921	42.457	0.940
S3	0.028	1.502	1.900	71.921	47.504	0.574
S4	0.029	1.091	1.900	71.921	65.935	0.006
S5	0.025	0.997	1.900	71.921	72.019	0.088
S6	0.022	1.006	1.900	71.921	71.136	0.351
S7	0.020	1.289	1.900	71.921	55.167	0.796
S8	0.024	1.544	1.900	71.921	46.041	0.812

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

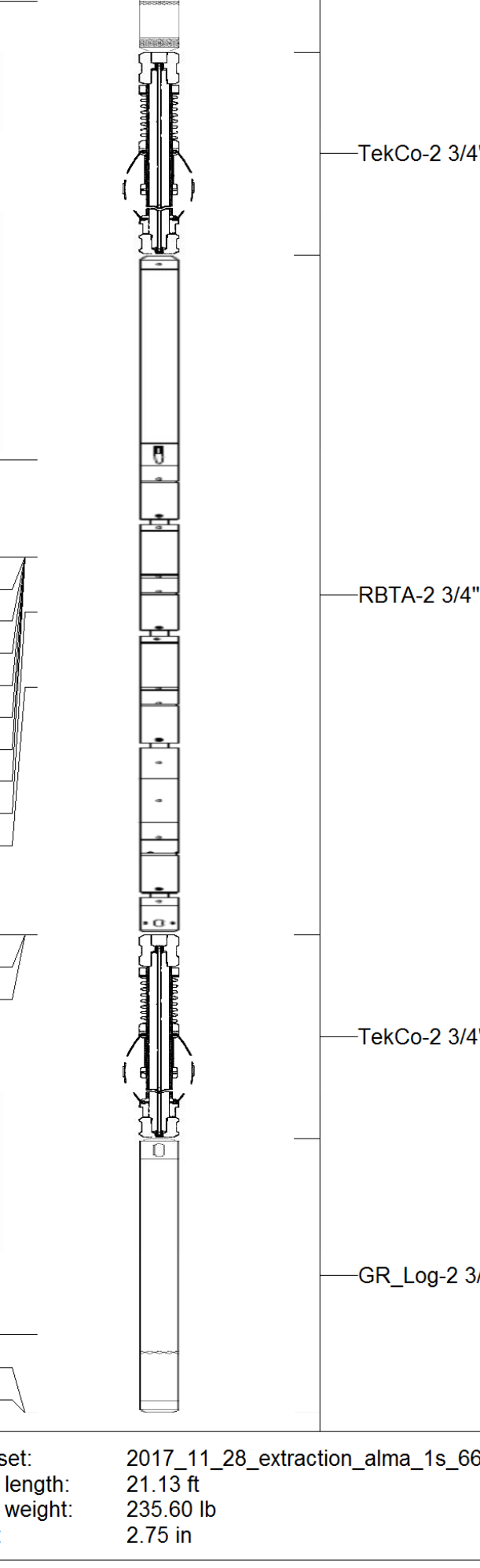
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.009	0.722	1.000	0.000

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

	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)	1.83	2.75	33.00
			TekCo-2 3/4"	2.73	2.75	25.00
TEMP	12.78					
WVFS8	11.49					
WVFS7	11.49					
WVFS6	11.49					
WVFS5	11.49		RBTA-2 3/4" RIB Analog (IPPO2-01)	9.13	2.75	102.00
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-2 3/4"	2.73	2.75	25.00
			GR_Log-2 3/4" TekCo (ISHV2-03)	3.68	2.75	47.00
GR	1.04					
LOCTIM	0.00					
UTCTIM	0.00					

Dataset:	2017_11_28_extraction_alma_1s_66_2524_20cdh.db: field/well/run1/merge1
Total length:	21.13 ft
Total weight:	235.60 lb
O.D.:	2.75 in

gyrodata

Company	Extraction Oil and Gas		
Well	ALMA 1S-66-25524 20CDH		
Field	Wattenberg		
County	Adams		
State	CO	**Country**	U.S.A.