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CEMENT BOND LOG

Company Extraction Oil & Gas
Well United A S 16-20-6N
Field Wattenberg
County Broomfield
State CO

Company Extraction Oil & Gas
Well United A S 16-20-6N
Field Wattenberg
County Broomfield **State** CO

API #: 05-014-20806
Location:
LAT: 39.985508
LONG: -105.001573
SEC: 9 TWP: 1S RGE: 68W

Other Services

Elevation
K.B. 5280'
D.F. ----
G.L. 5257'

Permanent Datum: Ground Level Elevation: 5257'
Log Measured From: Kelly Bushing , 23 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	15 NOV 2021		
Run Number	ONE		
Plug Back T.D. Driller	-----		
Plug Back T.D. Logger	-----		
Bottom Logged Interval	8576'		
Top Log Interval	Surface		
Type Fluid	Water		
Density / Viscosity	-----		
Max. Recorded Temp.	235°F		
Time Logger on Bottom	1600		
Equipment Number	GD170		
Location	Casper, WY		
Recorded By	B. Kennicker		
Witnessed By	Kristopher Peterson		

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To

<<< Fold Here >>>

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 # : RM1121PCBW363
Your Crew Today: H. Estebo, S. Ludwig
Log Correlated to: Kelly Bushing

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	1488'
40 % Bond	1584'
60 % Bond	2054'
80 % Bond	7888'
100 % Bond	8411'

Comments

Estimated Top of Cement
(20 % Bond Index) at 1488 feet

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\20211115_extraction_united_16_20_6n\20211115_extraction_united_16_2
Dataset field/well/run1/pass3/_vars_

Top - Bottom

BHTEMP_Src	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in	MINAMPL mV	MinAPIID in
TEMP	5.5	0.361	20	71.9	4.868	2.1	4.695

MINATTN db/ft	PPT usec	Z_NA_1	Z_NA_2	Z_NA_3
0	242	0	0	0

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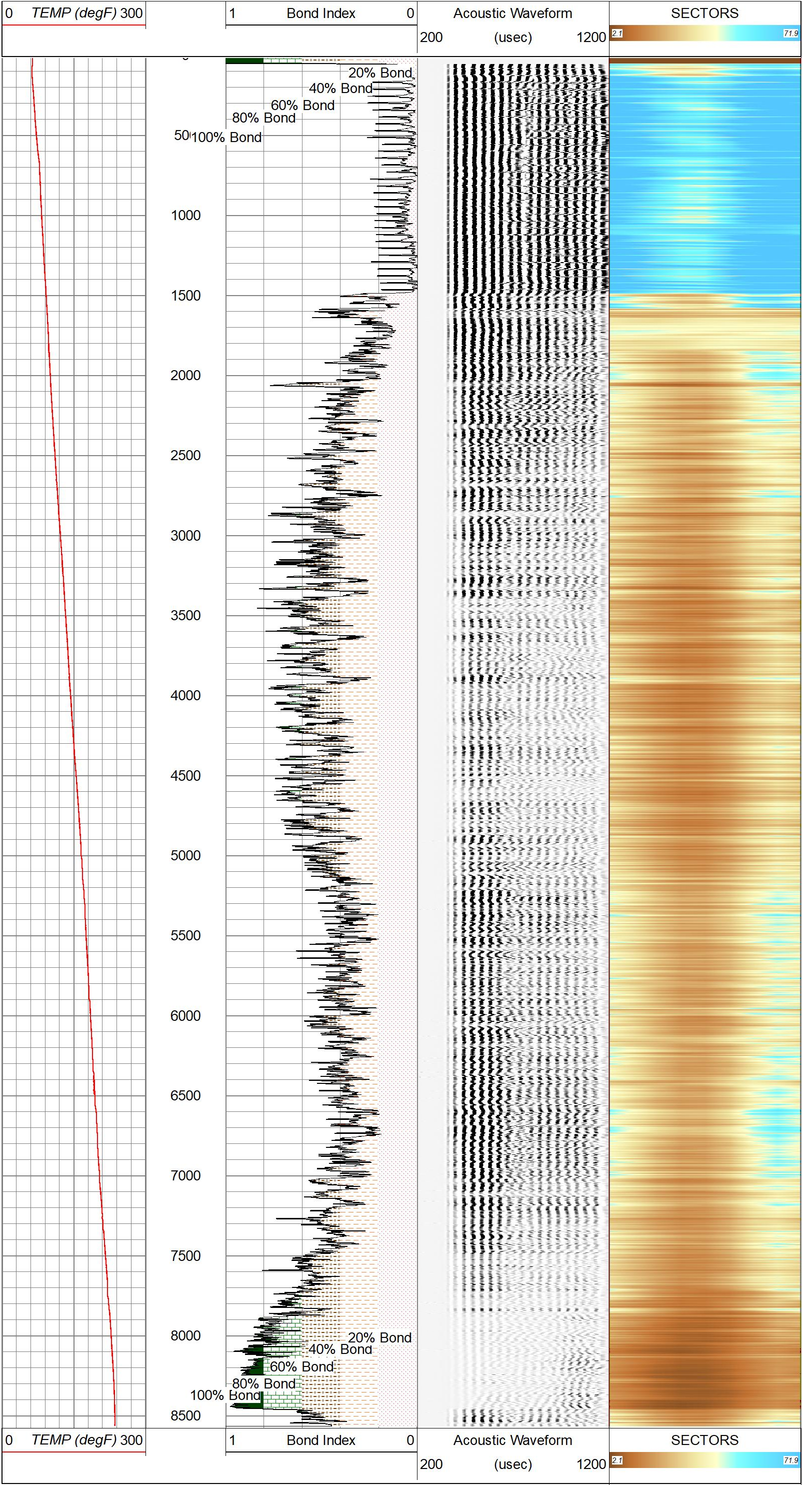
BOND INDEX

Database File 20211115_extraction_united_16_20_6n\20211115_extraction_united_16_20_6n.db
Dataset Pathname bondindex
Presentation Format bndindx_msg-sec
Dataset Creation Mon Nov 15 17:44:38 2021
Charted by Depth in Feet scaled 1:7500



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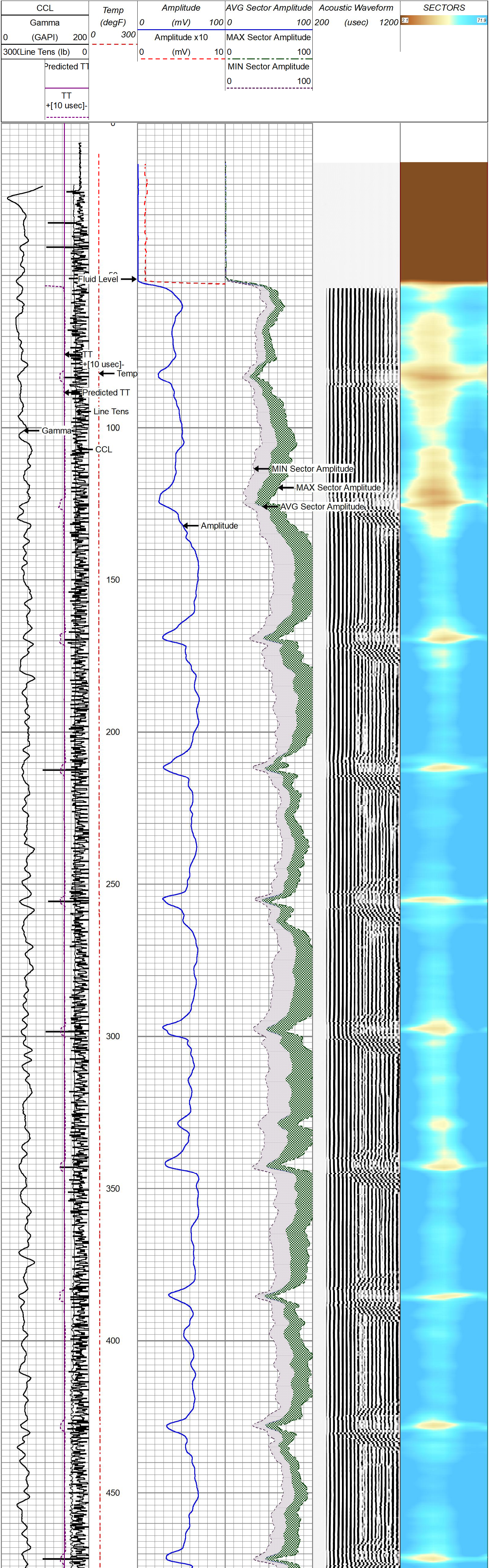
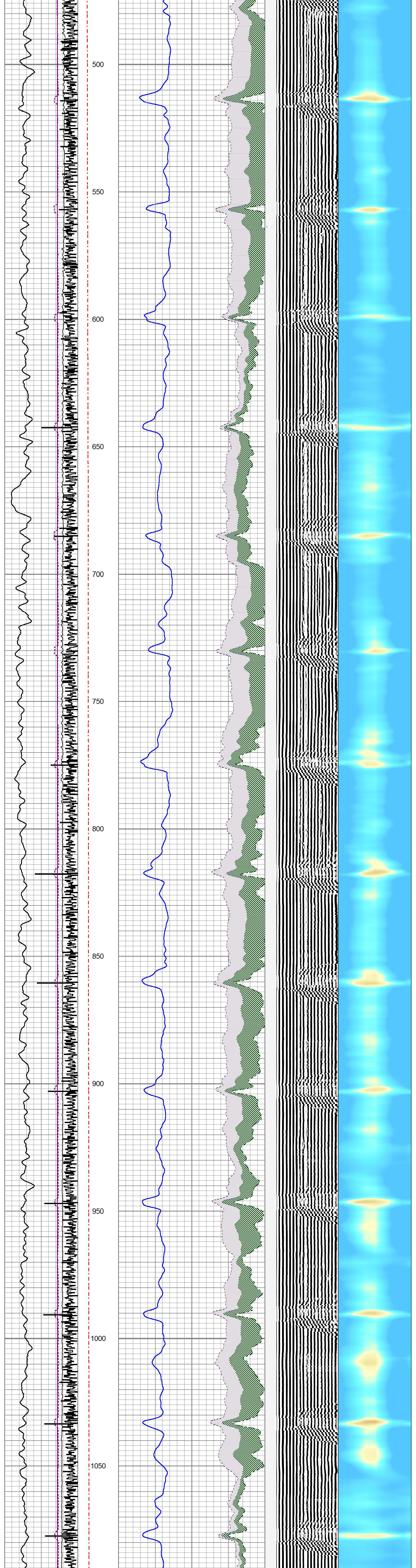
BOND INDEX

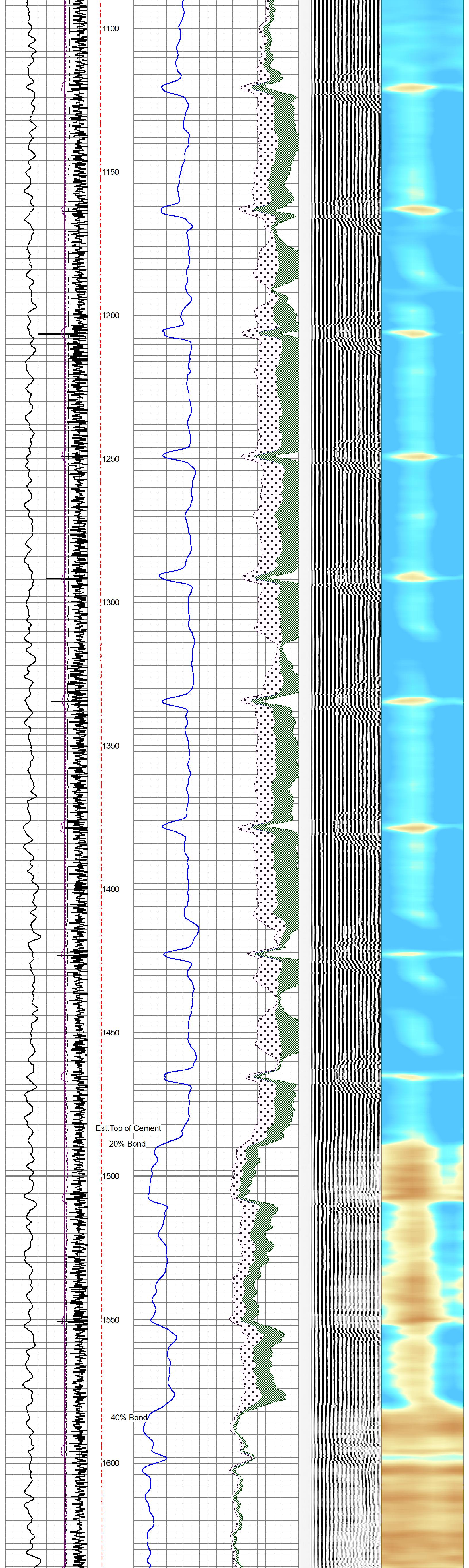
MAIN PASS - Ran with 0 PSI

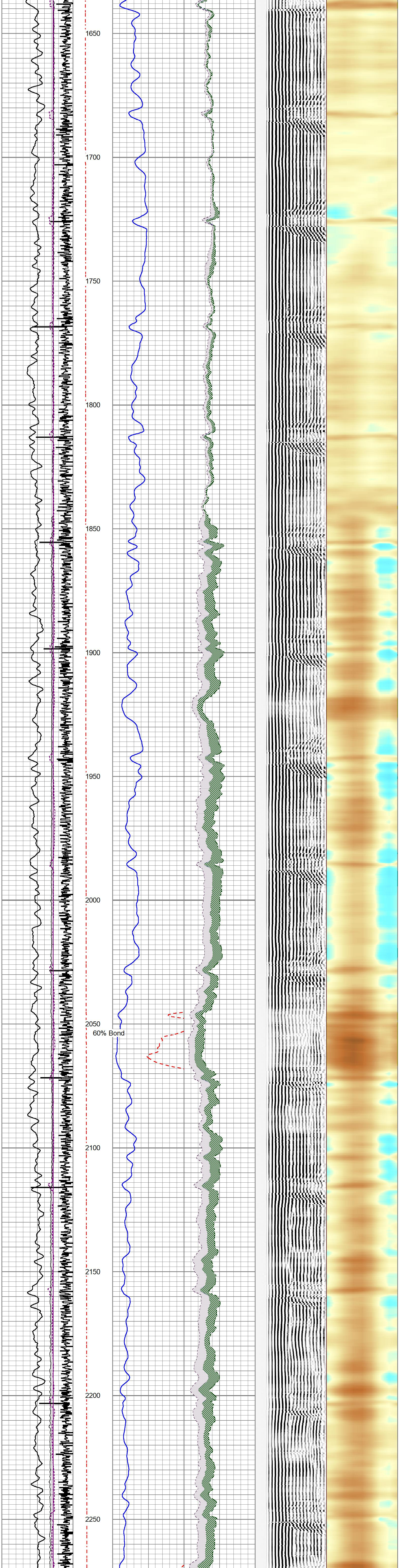
5 in / 100 ft

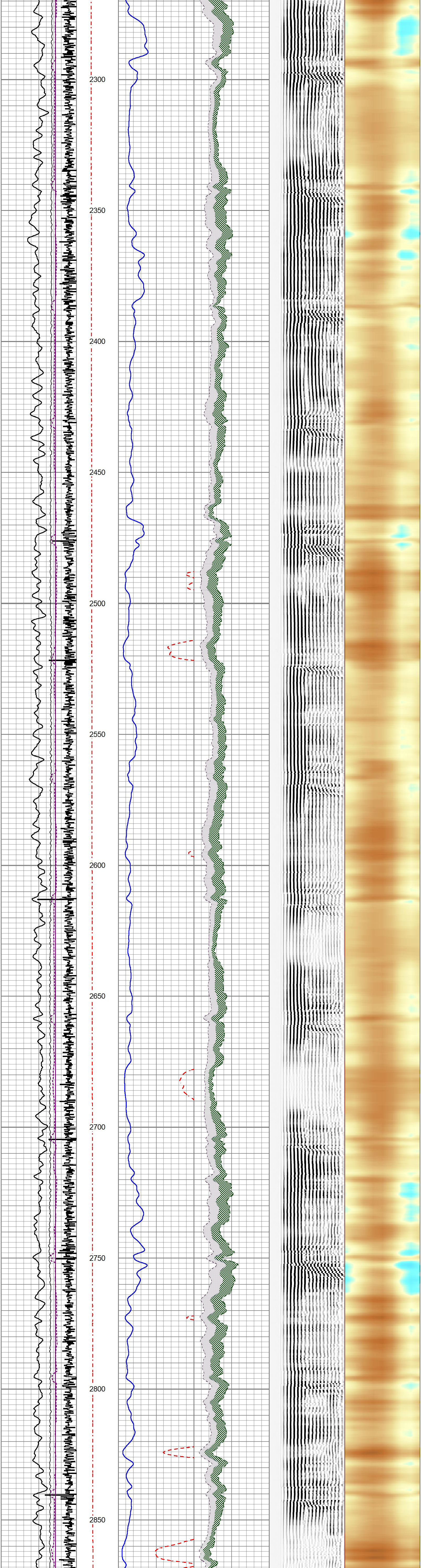
Database File	20211115_extraction_united_16_20_6n\20211115_extraction_united_16_20_6n.db
Dataset Pathname	mainpass
Presentation Format	rcbl_8s
Dataset Creation	Mon Nov 15 17:41:46 2021
Charted by	Depth in Feet scaled 1:240

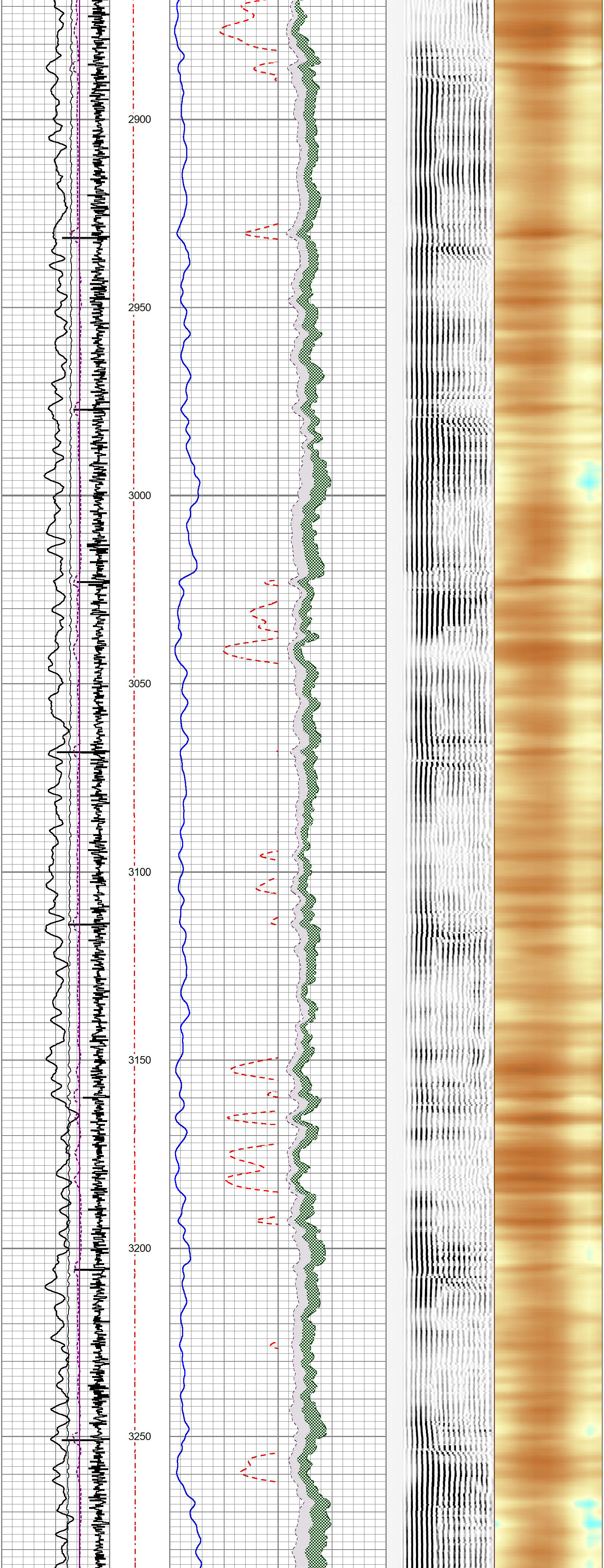


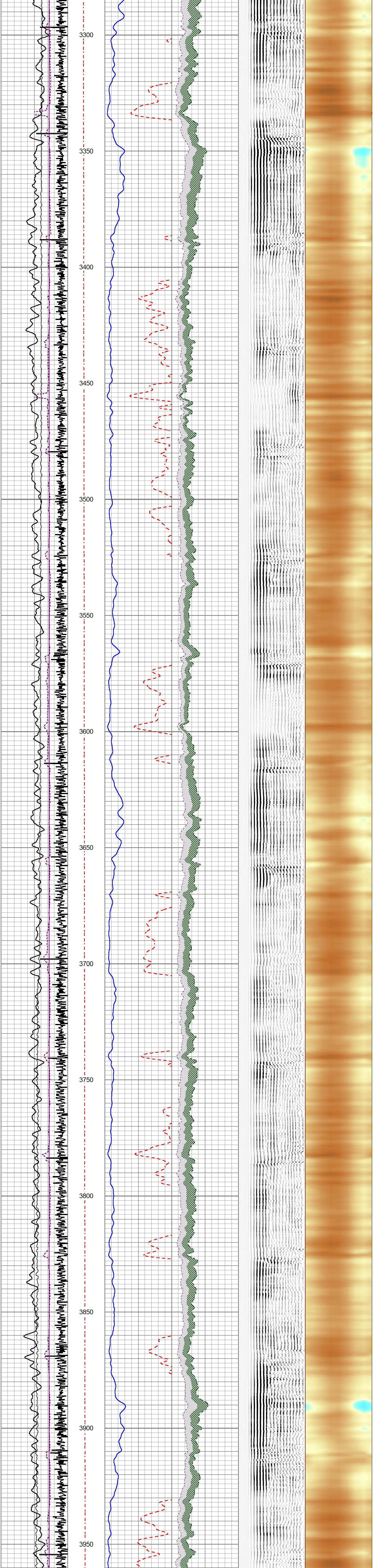








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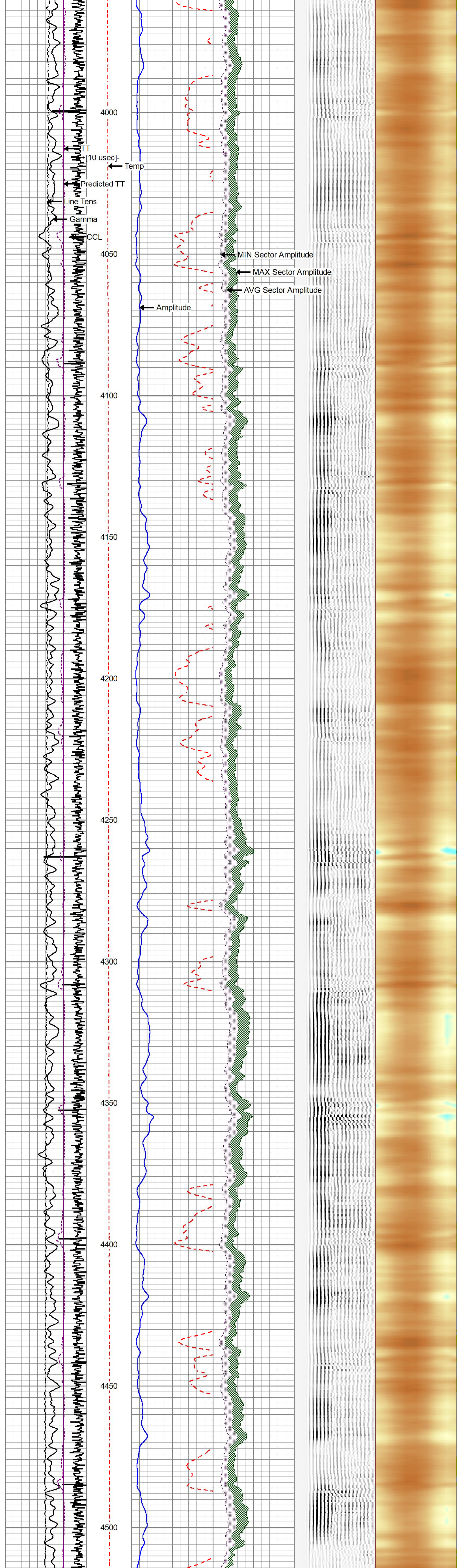
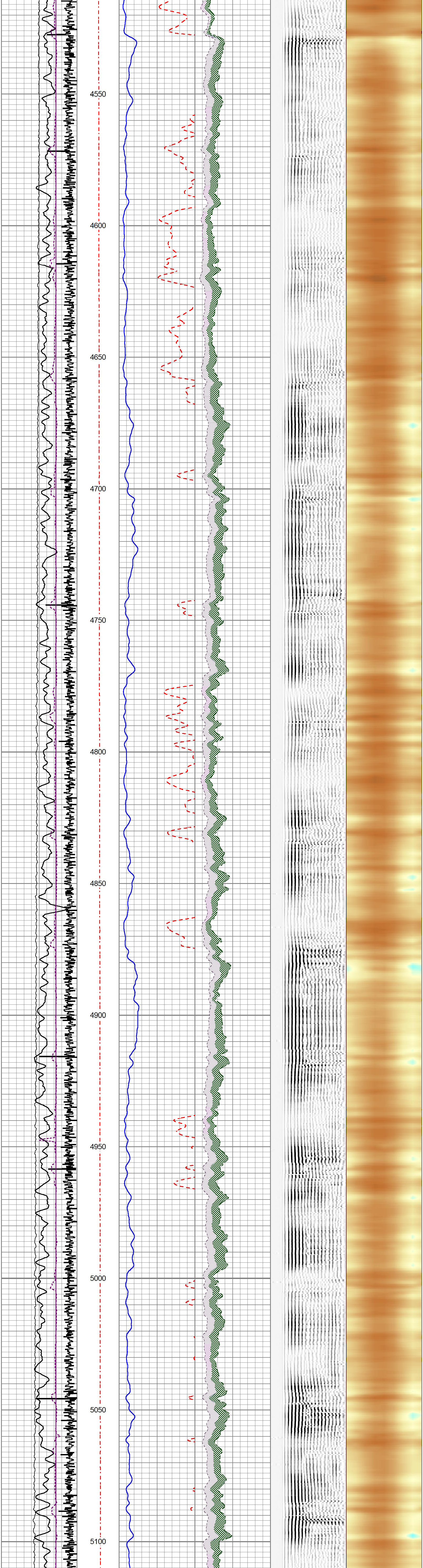

4000
TT
+[10 usec]-
Temp
Predicted TT
Line Tens
Gamma
CCL
4050
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude
4100
4150
4200
4250
4300
4350
4400
4450
4500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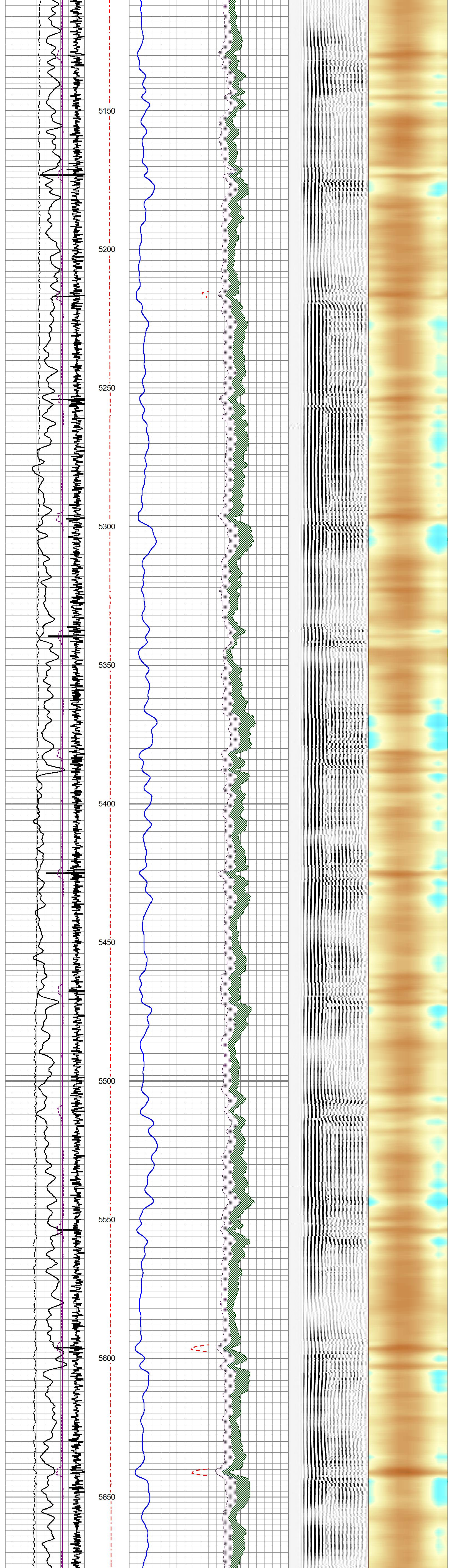
5000
5050
5100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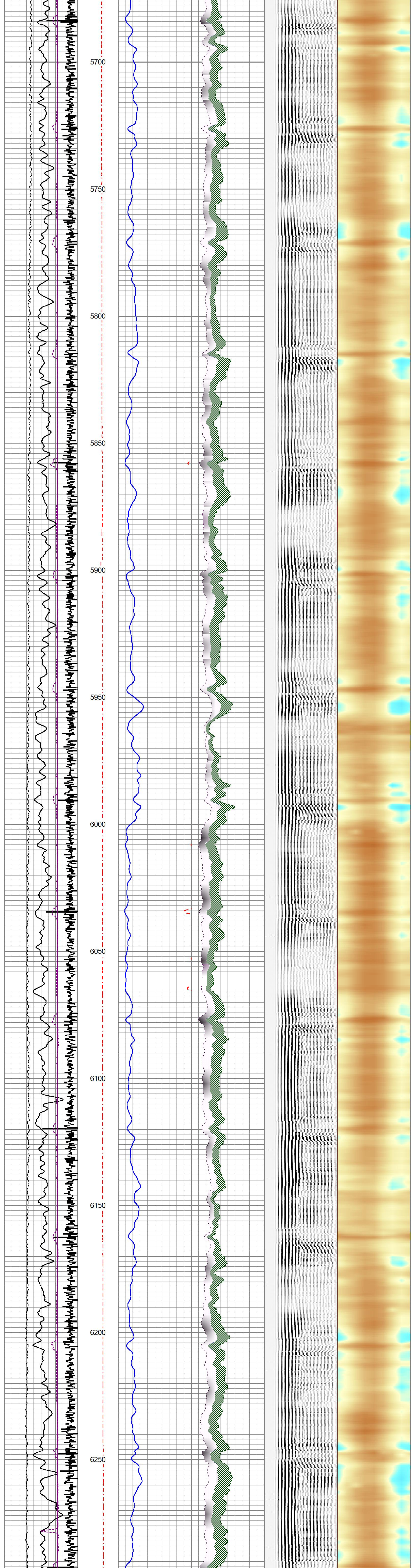
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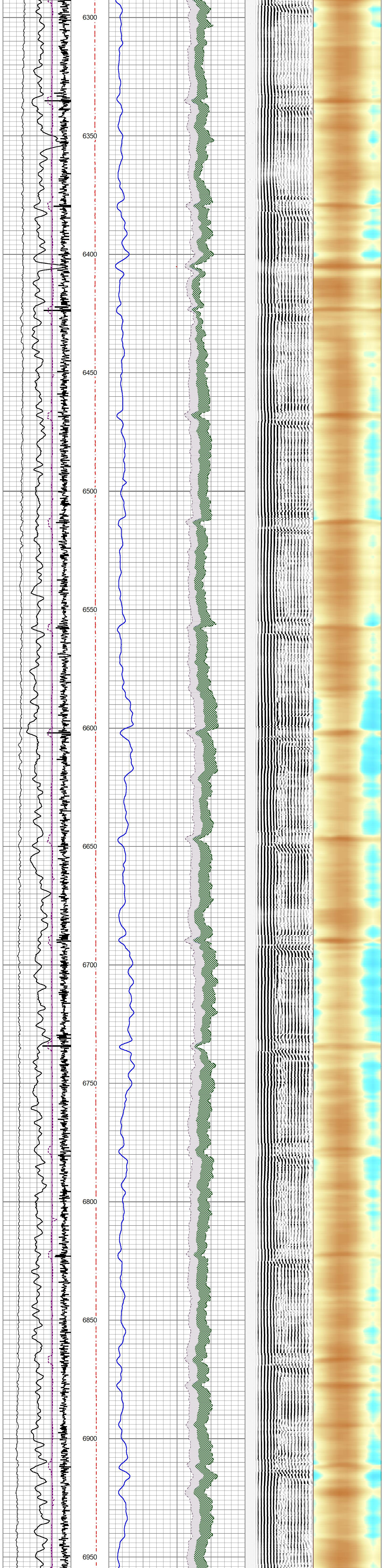
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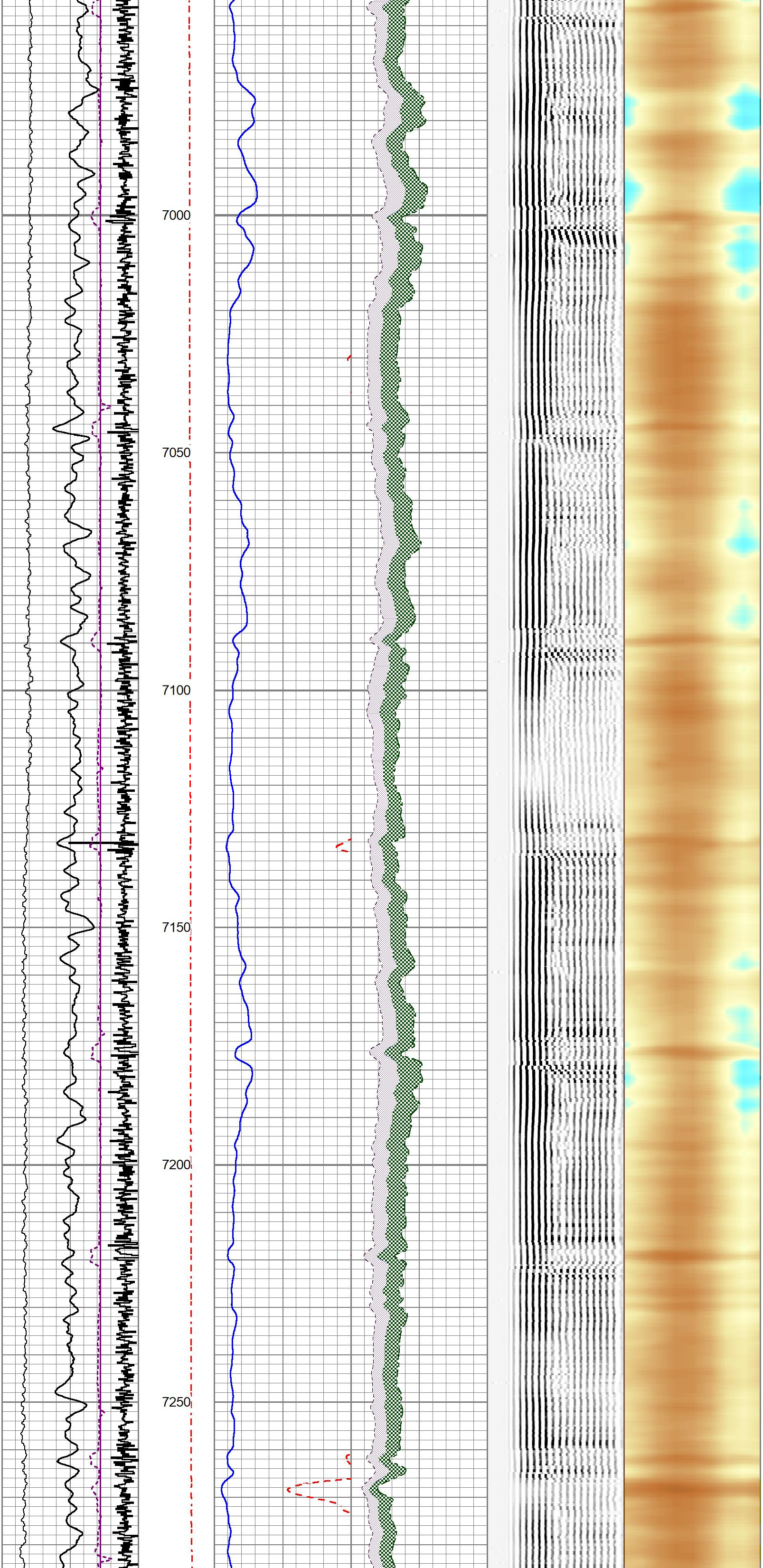
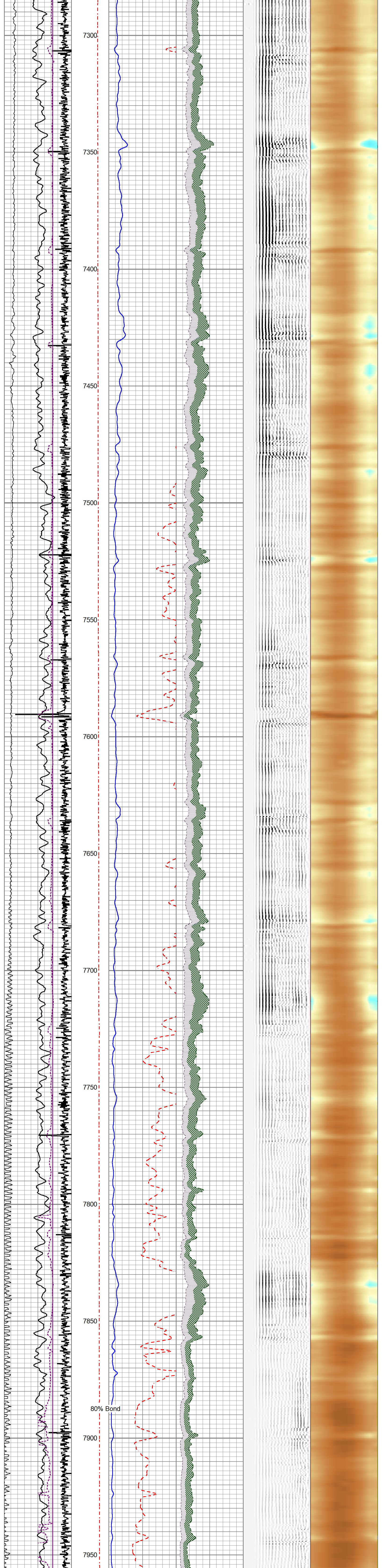
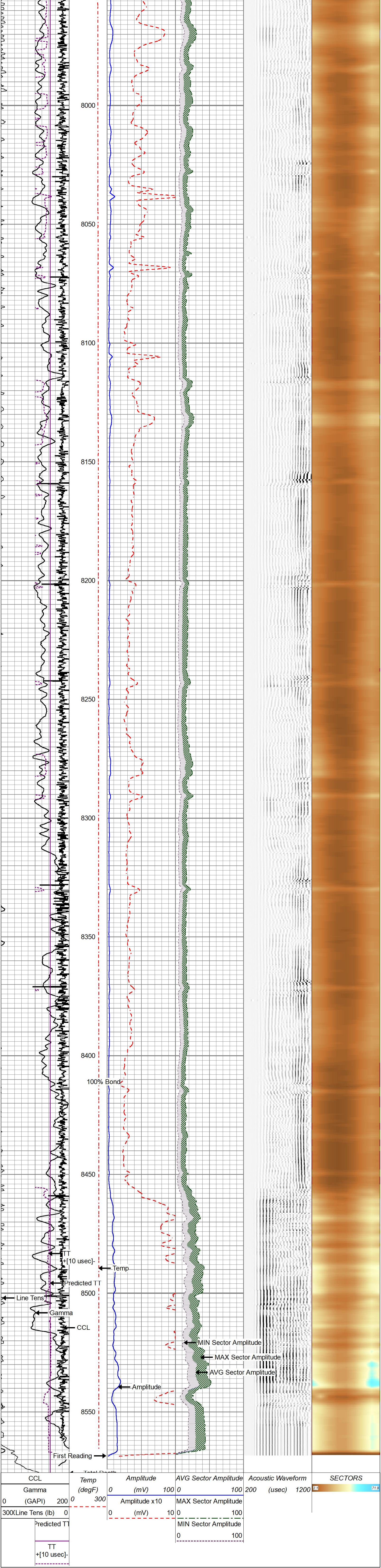

7000
7050
7100
7150
7200
7250





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MAIN PASS - Ran with 0 PSI

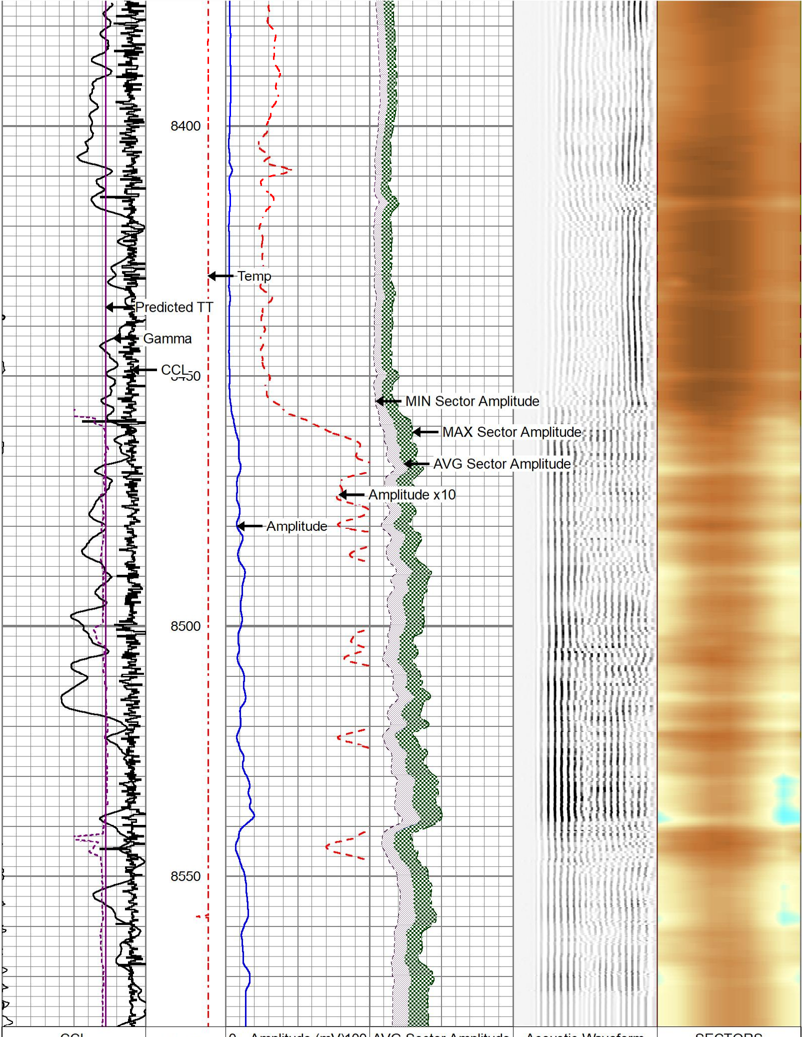
5 in / 100 ft

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	20211115_extraction_united_16_20_6n\20211115_extraction_united_16_20_6n.db
Dataset Pathname	repeat
Presentation Format	rcbl_8s
Dataset Creation	Mon Nov 15 17:43:14 2021
Charted by	Depth in Feet scaled 1:240

CCL	Temp	0 Amplitude (mV)100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 (usec) 1200	2.1 71.9
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		



CCL	Temp	0 Amplitude (mV)100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 (usec) 1200	2.1 71.9
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		

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Calibration Report

Database File	d:\warrior\data\20211115_extraction_united_16_20_6n\20211115_extraction_united_16_20_6n.db
Dataset Pathname	pass3
Dataset Creation	Mon Nov 15 16:09:43 2021

Gamma Ray Calibration Report

Serial Number:	IXEM9-02	
Tool Model:	2 3/4" TekCo	
Performed:	Fri Sep 13 16:09:36 2019	
Calibrator Value:	194.0	GAPI
Background Reading:	62.6	cps
Calibrator Reading:	332.7	cps
Sensitivity:	0.7183	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: ISF06-04
Tool Model: 2 3/4" RIB Analog

Master Calibration, performed (Derived):

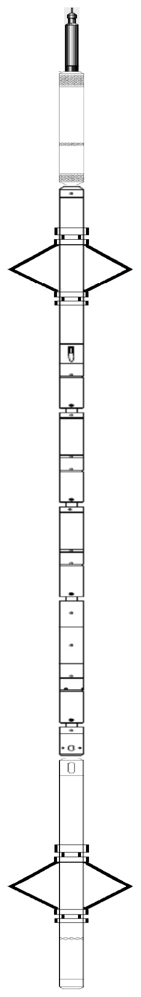
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.003	0.864	1.000	72.000	81.943	1.225
CAL	0.000	0.524				
5'	-0.001	1.185	1.000	72.000	59.859	1.038
SUM						
S1	0.002	0.654	0.000	72.000	110.308	-0.166
S2	0.002	0.689	0.000	72.000	104.789	-0.209
S3	0.005	0.839	0.000	72.000	86.404	-0.458
S4	0.010	1.043	0.000	72.000	69.681	-0.668
S5	0.008	1.092	0.000	72.000	66.407	-0.509
S6	0.009	0.970	0.000	72.000	74.902	-0.650
S7	0.006	0.826	0.000	72.000	87.808	-0.549
S8	0.003	0.675	0.000	72.000	107.242	-0.356

Temperature Calibration Report

Serial Number: ISF06-04
Tool Model: 2 3/4" RIB Analog
Performed: Tue Jan 08 13:48:09 2019

	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	13.50		CCL_Log-2 3/4" TekCo (IS2T1-08)	1.83	2.75	33.00
			Antelope-Overbody	1.25	2.75	
TEMP	10.05					
WVFS8	8.76					
WVFS7	8.76					
WVFS6	8.76					
WVFS5	8.76		RBTA-2 3/4" RIB Analog (ISF06-04)	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_Log-2 3/4" TekCo (IXEM9-02)	3.68	2.75	47.00
			Antelope-Overbody	1.25	2.75	
GR	1.04					
LOCTIM	0.00					
UTCTIM	0.00					

Dataset:	20211115_extraction_united_16_20_6n.db: field/well/run1/pass3
Total length:	15.67 ft
Total weight:	185.60 lb
O.D.:	2.75 in

Company	Extraction Oil & Gas
Well	United A S 16-20-6N
Field	Wattenberg
County	Broomfield
State	CO
Country	U.S.A.