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CEMENT BOND LOG

Company	Extraction Oil & Gas
Well	Coyote Trails 34S-20-12N
Field	Wattenburg
County	Weld
State	Co

Company Extraction Oil & Gas
Well Coyote Trails 34S-20-12N
Field Wattenburg
County Weld **State** Co

API # : 05-123-45983
Location: 1146' FSL & 2103' FEL
Lat. 40.017974
Long. -105.006574

SEC: 28 TWP: 1N RGE: 68W

Other Services

Elevation
K.B. 5299'
D.F. 5297'
G.L. 5270'

Permanent Datum: Ground Level Elevation: 5270'
Log Measured From: Kelly Bushing , 29 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	4/16/2018
Run Number	ONE
Plug Back T.D. Driller	--
Plug Back T.D. Logger	----
Bottom Logged Interval	8735'
Top Log Interval	Surface
Type Fluid	-----
Density / Viscosity	-----
Max. Recorded Temp.	241°F
Time Logger on Bottom	10:00
Equipment Number	GD112
Location	Casper
Recorded By	Garrett Graham
Witnessed By	Jose

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8"	36#	Surface	1500'				
5 1/2"	20#	Surface	18677'				

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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 # : RM0418PCBW437
Your Crew Today: Daniel H. And John B.
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	215'
40 % Bond	241'
60 % Bond	278'
80 % Bond	2758'
100 % Bond	-----

Comments

Estmated Cement Top @ 215'
(20% Bond)

Marker Joint Located @ 7902'

Thank you for using Gyrodata

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

Log Variables

Databasec:\programdata\warrior\data\2018_04_16_extraction_coyote_trails_34s_20_12n_cbl\2018_
Dataset field/well/run1/MAINPASS/_vars_

Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in
TEMP	8.5	241	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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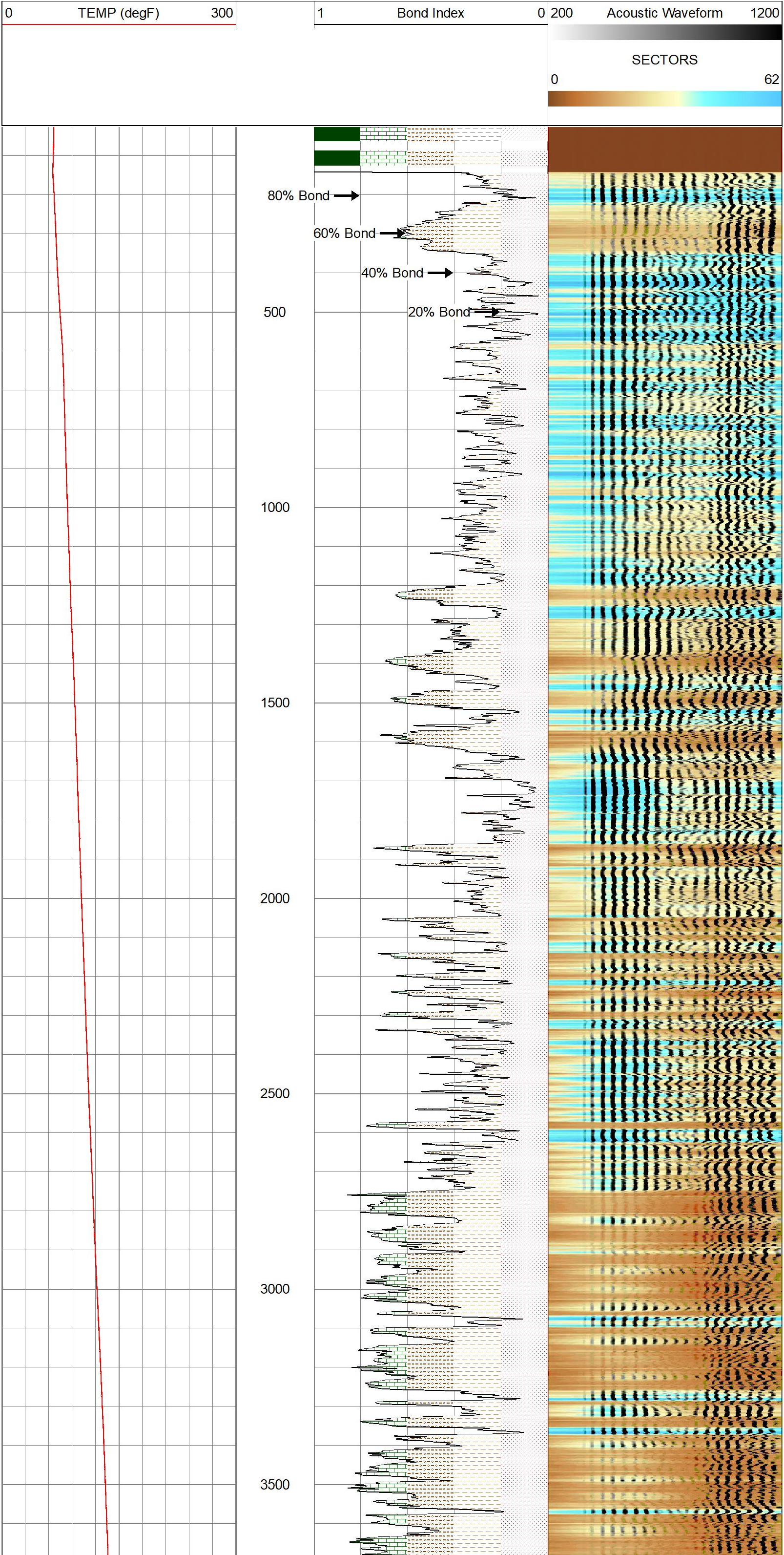
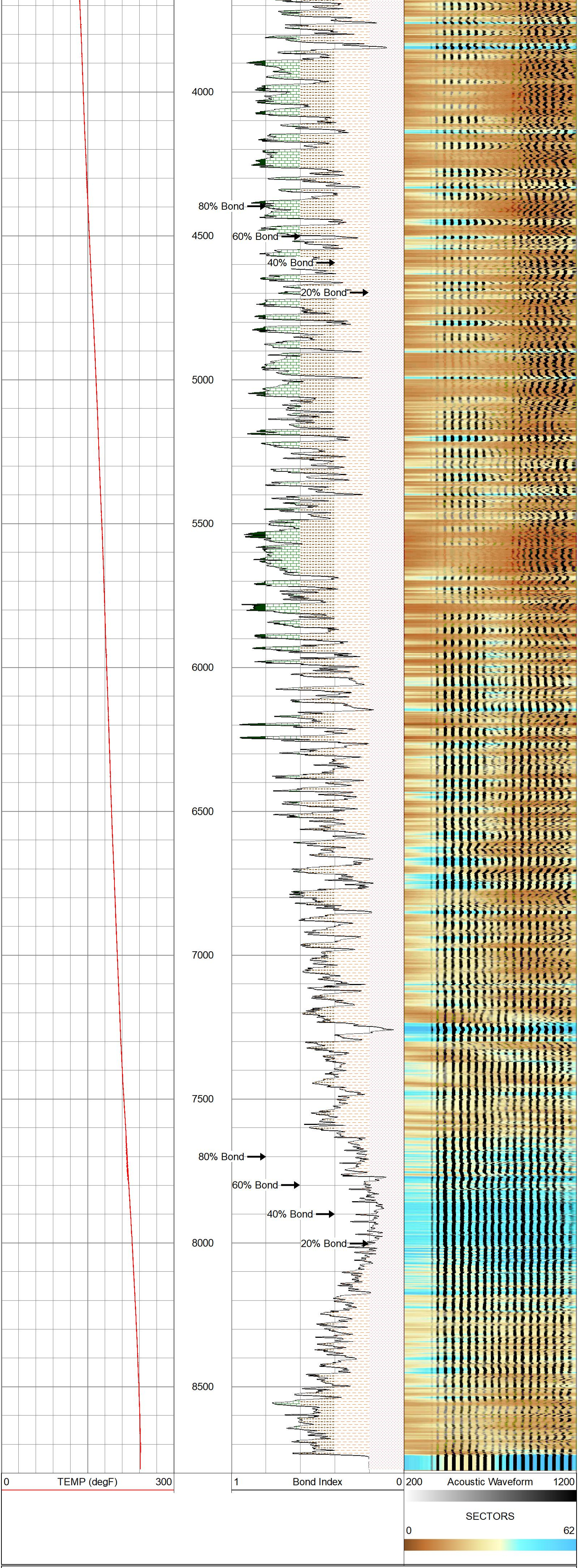
BOND INDEX

Database File	2018_04_16_extraction_coyote_trails_34s_20_12n_cbl\2018_04_16_extraction_coyote_trails_34s_20_12n
Dataset Pathname	BOND
Presentation Format	bndindx_msg-sec
Dataset Creation	Mon Apr 16 11:27:57 2018
Charted by	Depth in Feet scaled 1:3000





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BOND INDEX

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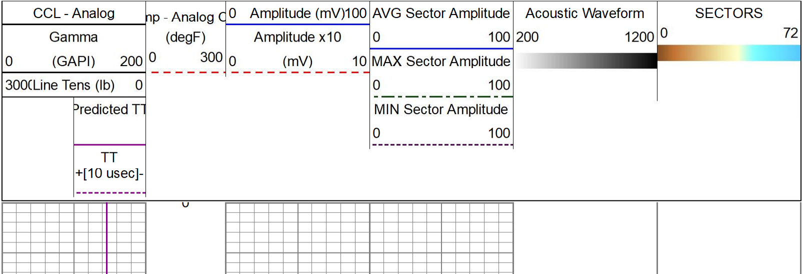
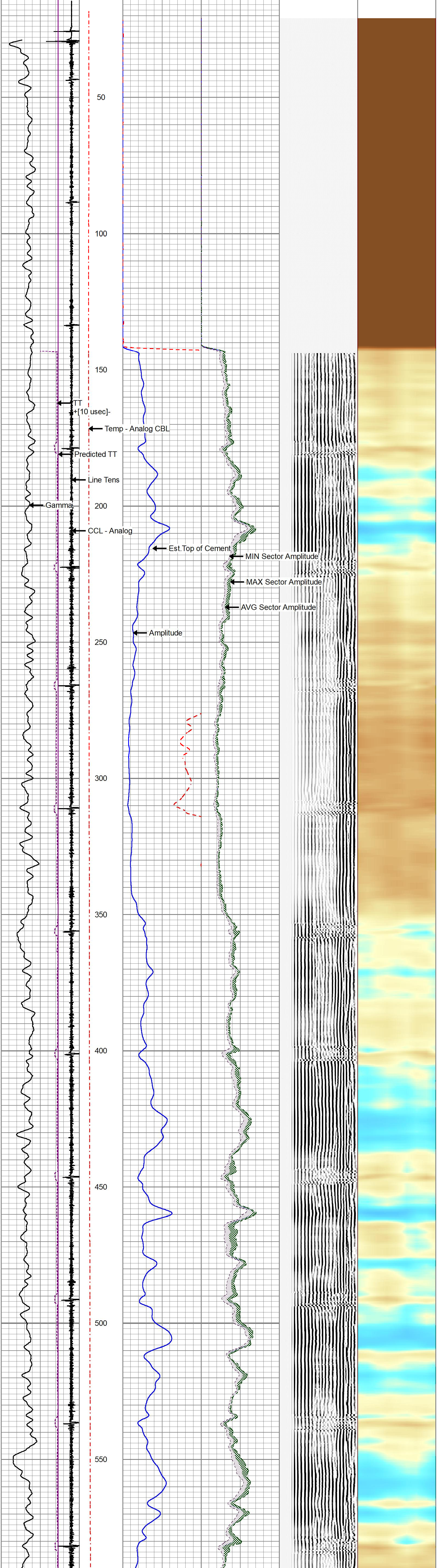
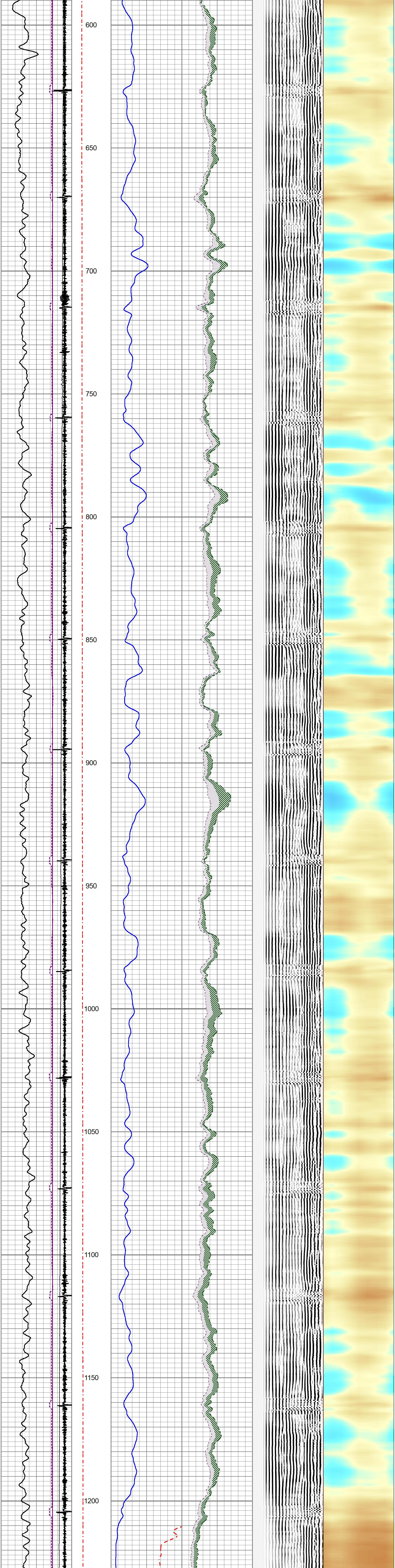
MAIN PASS - Ran with 0 PSI

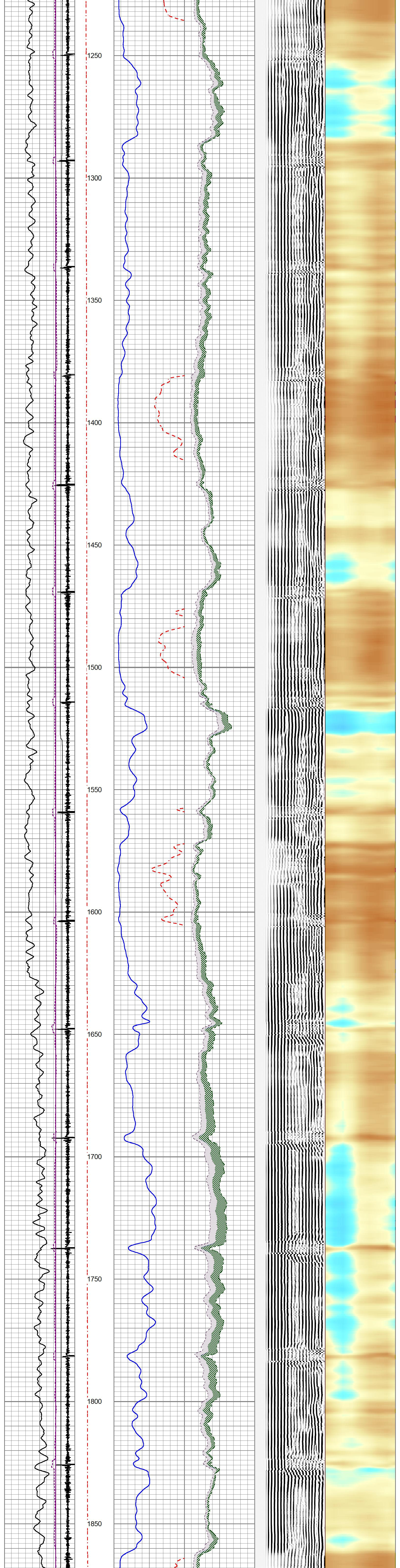
5 in / 100 ft

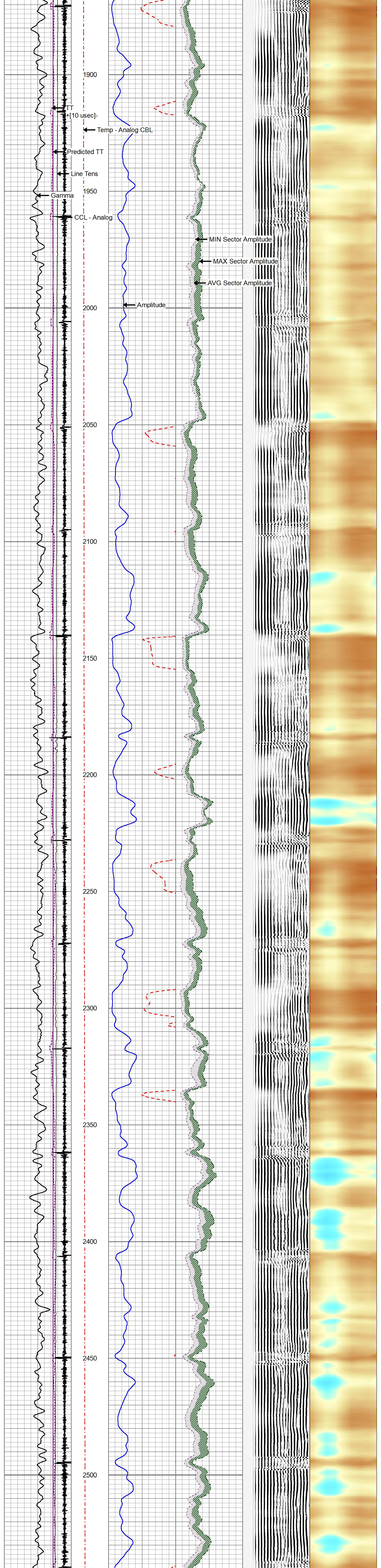
Database File	2018_04_16_extraction_coyote_trails_34s_20_12n_cbl\2018_04_16_extraction_coyote_trails_34s_20_12r
Dataset Pathname	MAINPASS
Presentation Format	rcbl_8s
Dataset Creation	Mon Apr 16 11:24:59 2018
Charted by	Depth in Feet scaled 1:240

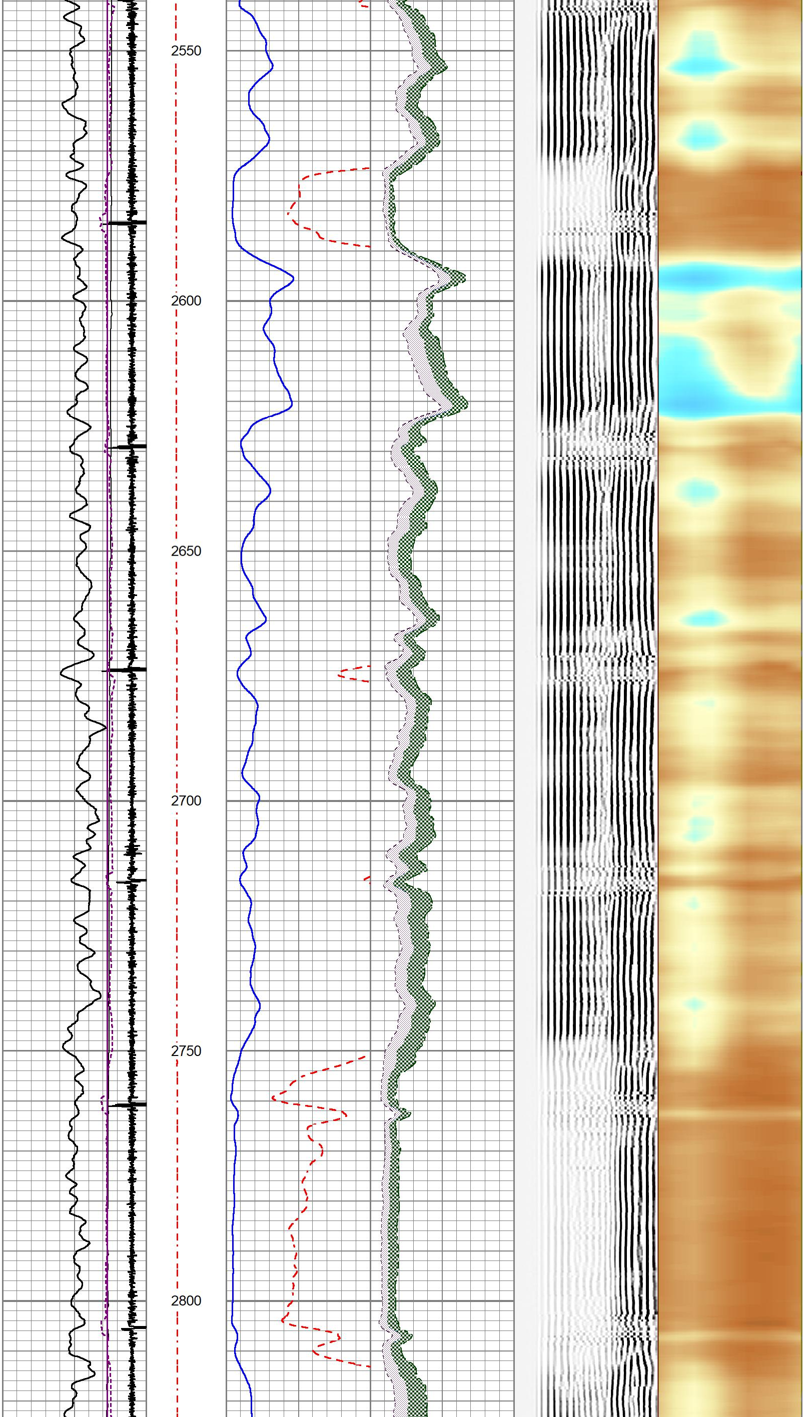


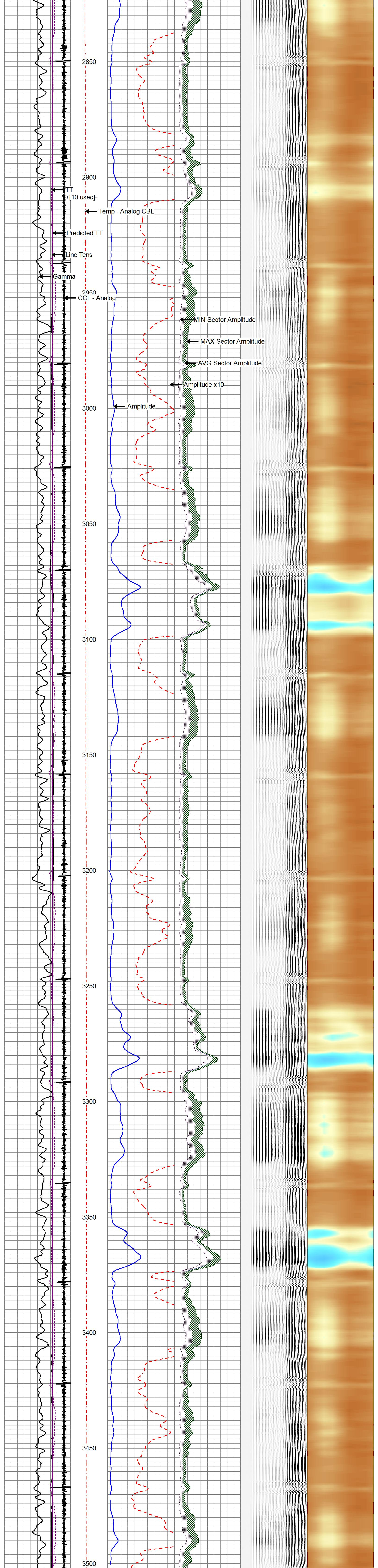


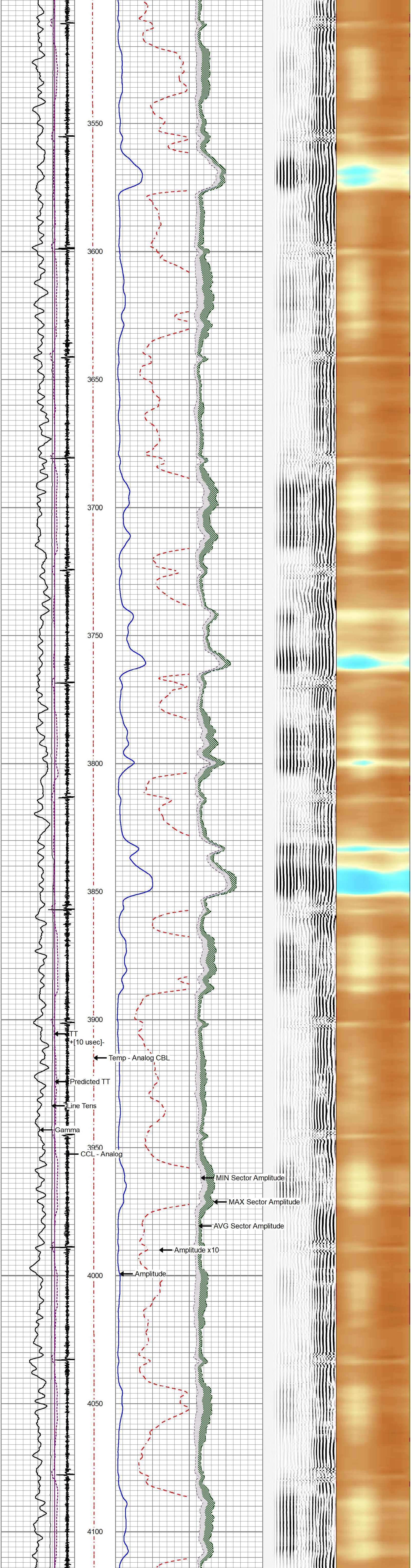


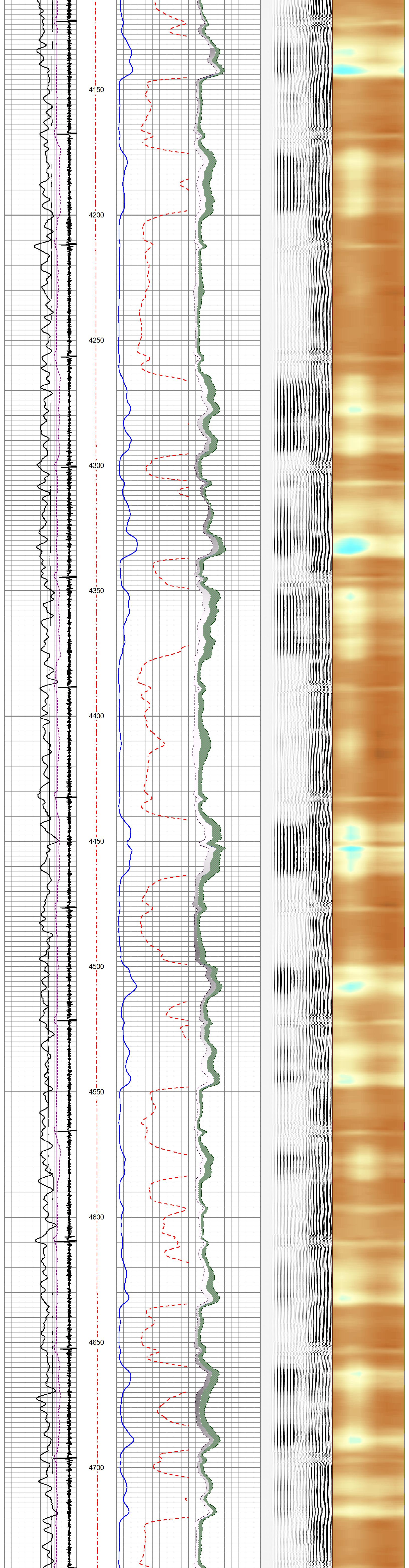


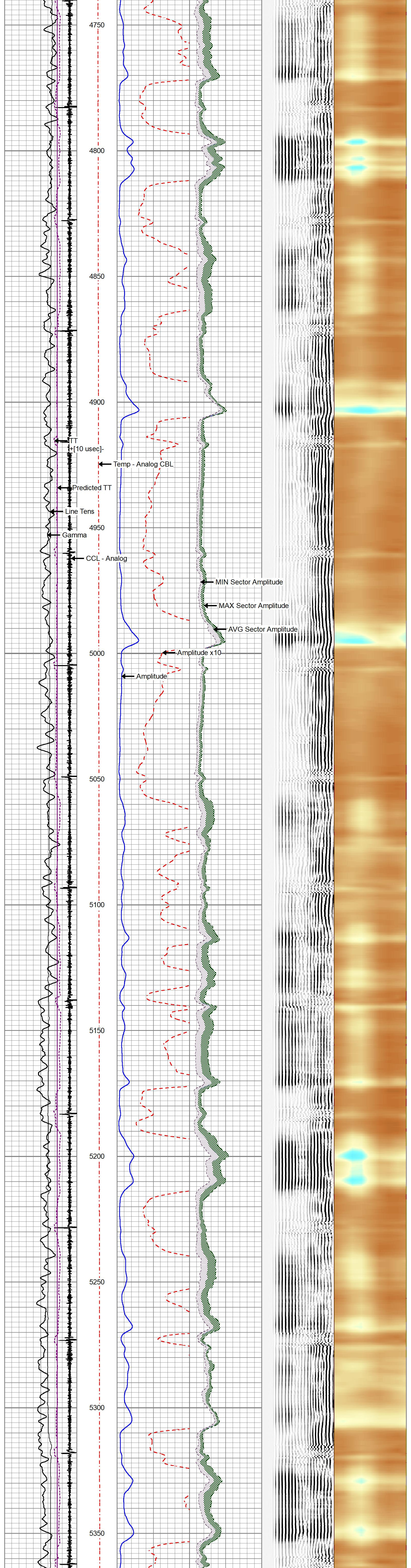


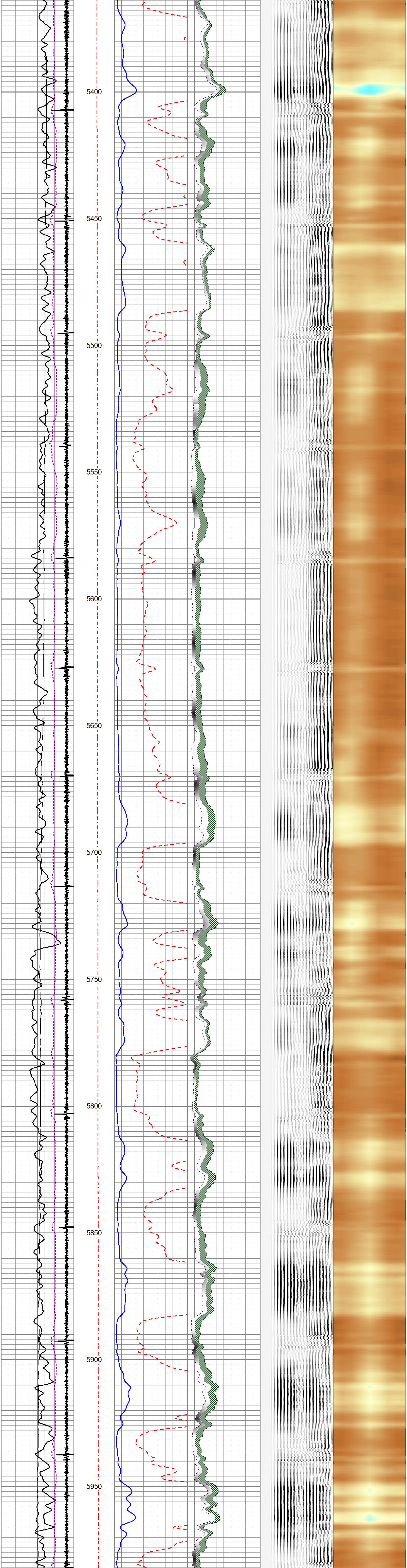


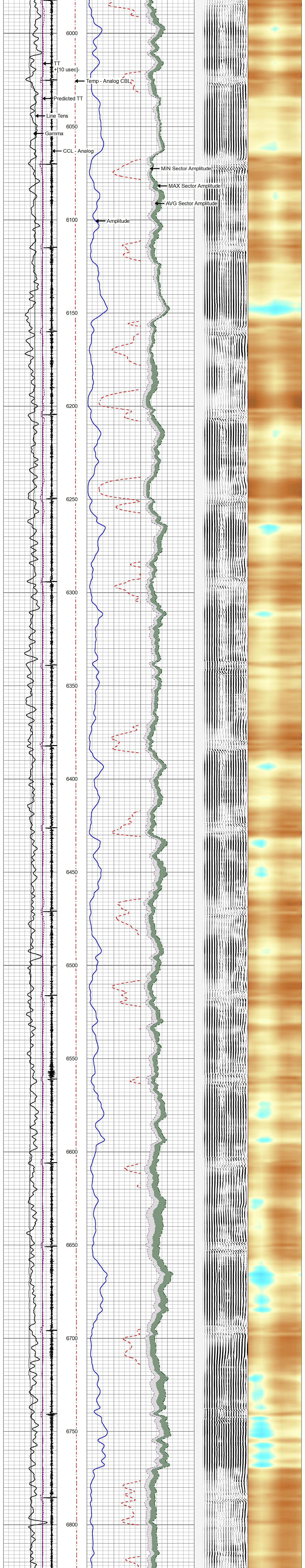

2850
2900
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
2950
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
3000
Amplitude
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500


3550
3600
3650
3700
3750
3800
3850
3900
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
3950
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
4000
Amplitude
4050
4100


4150
4200
4250
4300
4350
4400
4450
4500
4550
4600
4650
4700


4750
4800
4850
4900
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
4950
Gamma
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
5000
Amplitude x10
Amplitude
5050
5100
5150
5200
5250
5300
5350


5400
5450
5500
5550
5600
5650
5700
5750
5800
5850
5900
5950


TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude
6000
6050
6100
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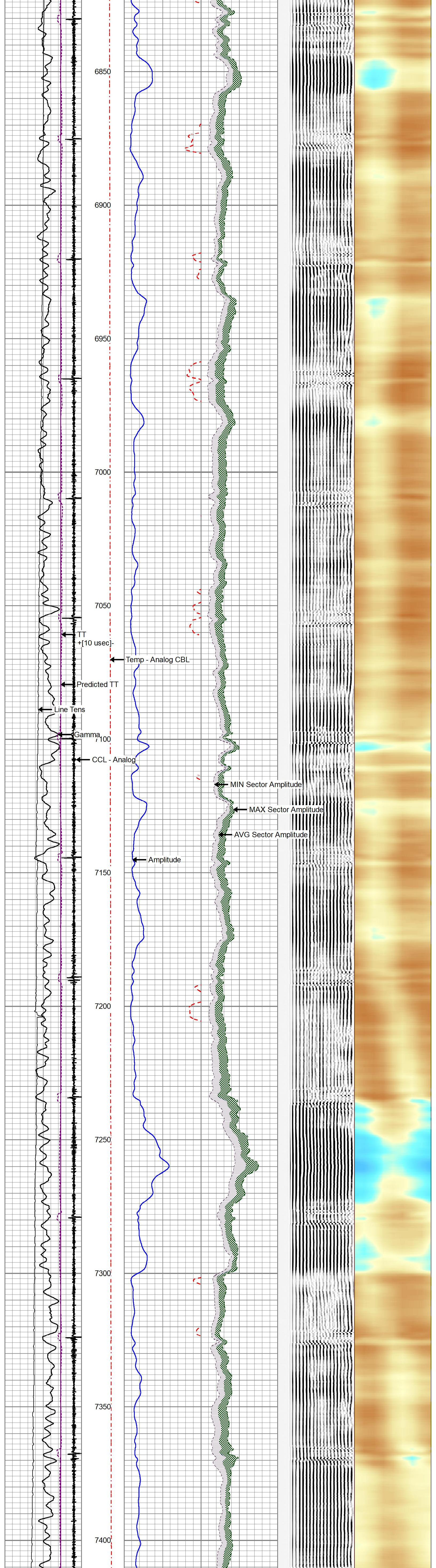
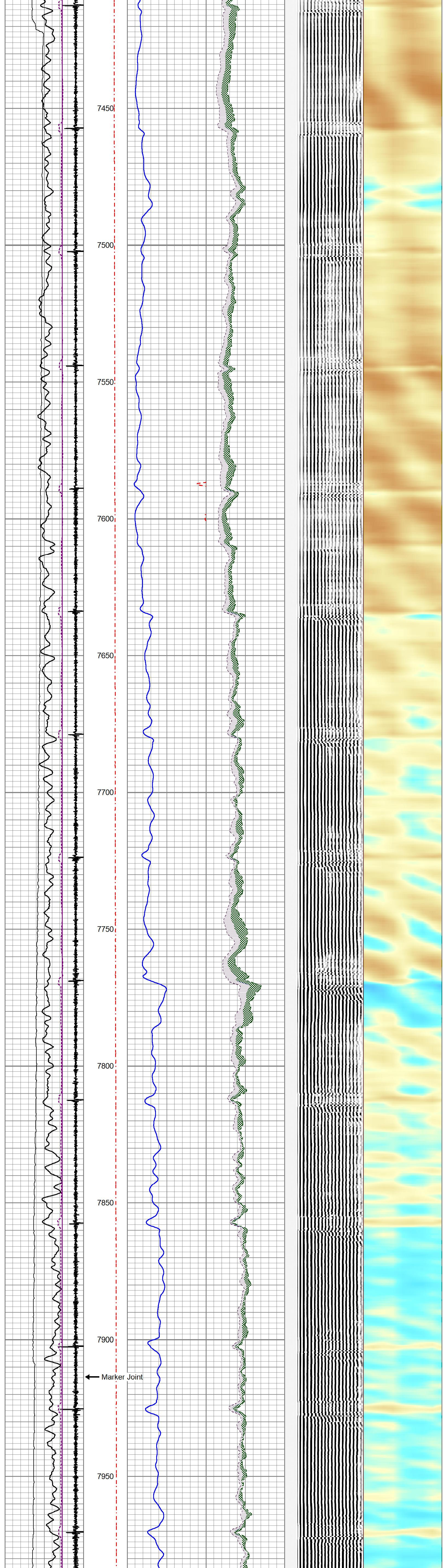
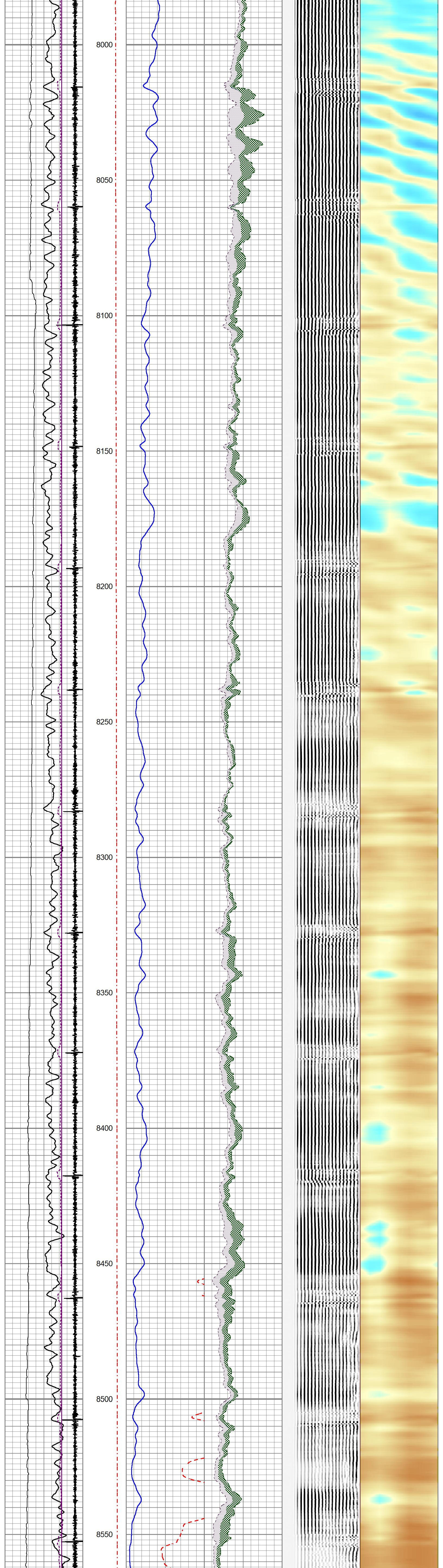
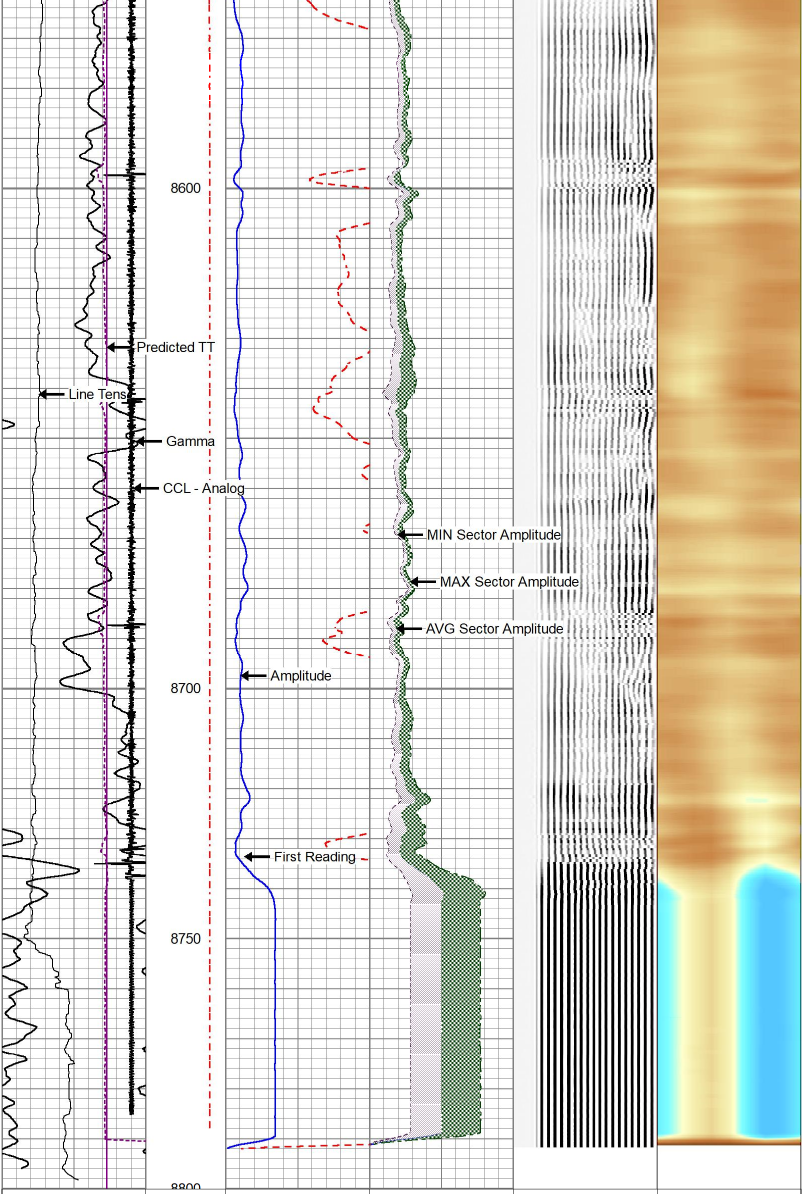
6650
6700
6750
6800









CCL - Analog
Gamma
0 (GAPI) 200
300(Line Tens (lb) 0
Predicted TT
TT
+[10 usec]-

np - Analog C
(degF)
0 300

0 Amplitude (mV)100
Amplitude x10
0 (mV) 10

AVG Sector Amplitude
0 100
MAX Sector Amplitude
0 100
MIN Sector Amplitude
0 100

Acoustic Waveform
200 1200

SECTORS
0 72

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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	2018_04_16_extraction_coyote_trails_34s_20_12n_cbl\2018_04_16_extraction_coyote_trails_34s_20_12r
Dataset Pathname	Repeat Pass
Presentation Format	rcbl_8s
Dataset Creation	Mon Apr 16 12:26:26 2018
Charted by	Depth in Feet scaled 1:240

CCL - Analog
Gamma
0 (GAPI) 200
300(Line Tens (lb) 0
Predicted TT
TT
+[10 usec]-

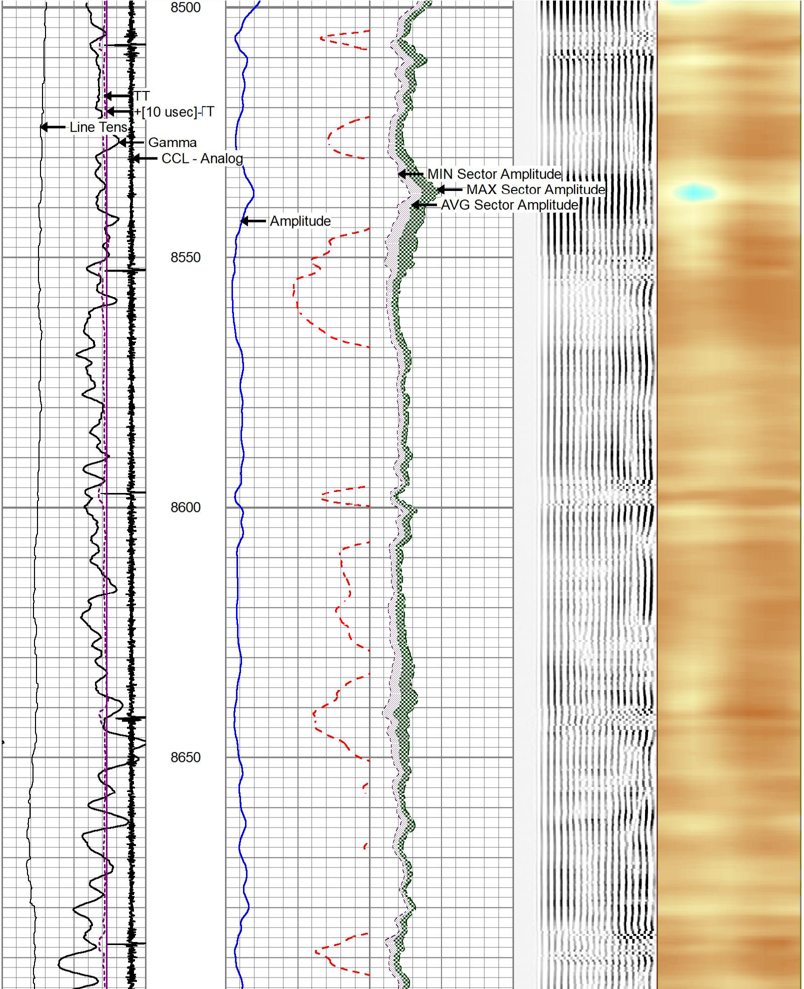
np - Analog C
(degF)
0 300

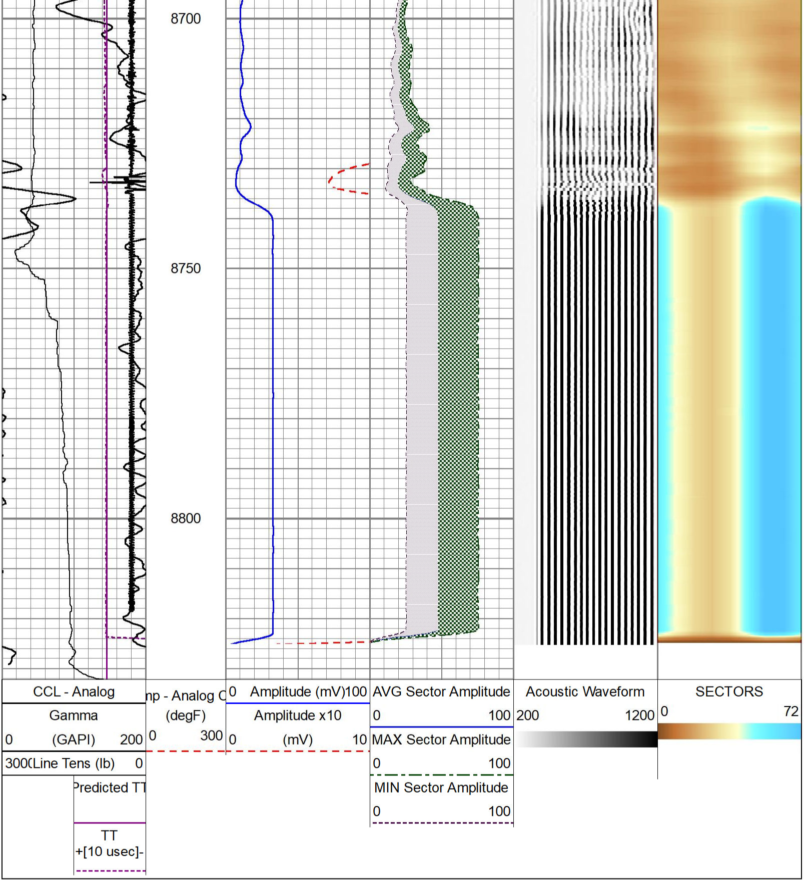
0 Amplitude (mV)100
Amplitude x10
0 (mV) 10

AVG Sector Amplitude
0 100
MAX Sector Amplitude
0 100
MIN Sector Amplitude
0 100

Acoustic Waveform
200 1200

SECTORS
0 72





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REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Calibration Report

Database File	c:\programdata\warrior\data\2018_04_16_extraction_coyote_trails_34s_20_12n_cbl\2018_04_16_extraction_
Dataset Pathname	MAINPASS
Dataset Creation	Mon Apr 16 11:24:59 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:	IT4B1-01	
Tool Model:	2 3/4" RIB Analog	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	1709.307	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.002	0.753	0.000	62.165	82.401	0.157
CAL	-0.005	0.510				
5'	-0.001	0.665	0.000	62.165	93.337	0.139
SUM						
S1	0.020	0.609	0.000	62.165	105.537	-2.101
S2	0.020	0.670	0.000	62.165	95.682	-1.945
S3	0.019	0.803	0.000	62.165	79.278	-1.527
S4	0.015	0.916	0.000	62.165	68.994	-1.062
S5	0.020	0.920	0.000	62.165	69.105	-1.379
S6	0.021	0.756	0.000	62.165	84.550	-1.756
S7	0.020	0.712	0.000	62.165	89.789	-1.787
S8	0.020	0.640	0.000	62.165	100.288	-2.040

Internal Reference Calibration, performed Fri Aug 25 16:20:58 2017:

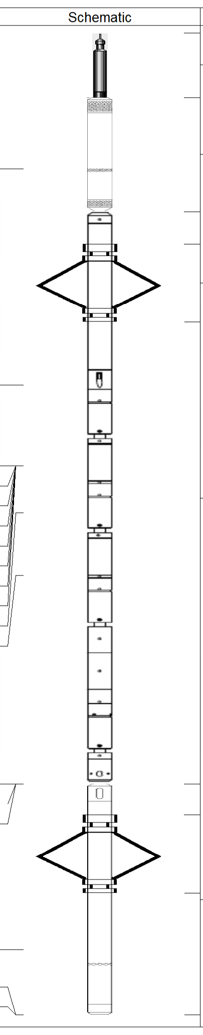
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.005	0.510	1.000	0.000

Air Zero Calibration, performed Fri Aug 25 16:20:58 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:	IT4B1-01			
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	13.50		CCL_Log-2 3/4" TekCo (IPSN7-03)	1.83	2.75	33.00
			Antelope-Overbody	1.25	2.75	
TEMP	10.05					
WVFS8	8.76					
WVFS7	8.76					
WVFS6	8.76		RBTA-2 3/4" RIB Analog (IT4B1-01)	9.13	2.75	102.00
WVFS5	8.76					
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					
			Antelope-Overbody	1.25	2.75	
			GR_Log-2 3/4" TekCo (ISHV2-03)	3.68	2.75	47.00
GR	1.04					
LOCTIM	0.00					
UTCTIM	0.00					

Dataset:	2018_04_16_extraction_coyote_trails_34s_20_12n_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 & Gas		
Well	Coyote Trails 34A-20-12N		
Field	Wattenburg		
County	Weld		
State	Co	**Country**	U.S.A.