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CEMENT BOND LOG

Company	Extraction Oil & Gas
Well	Coyote Trails 34S-20-9N
Field	Wattenburg
County	Weld
State	Co

Company Extraction Oil & Gas
Well Coyote Trails 34S-20-9N
Field Wattenburg
County Weld **State** Co

API # : 05-123-45985
Location: 1146' FSL & 2157' FEL
Lat. 40.017975
Long. -105.006767

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	8548'	
Top Log Interval	Surface	
Type Fluid	-----	
Density / Viscosity	-----	
Max. Recorded Temp.	247°F	
Time Logger on Bottom	5:10	
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	18176'				

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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 # : RM0418PCBW440
Your Crew Today: Daniel H. And Eric R.
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	95'
40 % Bond	358'
60 % Bond	2573'
80 % Bond	4340'
100 % Bond	-----

Comments

Estmated Cement Top @ 95'
(20% Bond)

Marker Joint Located @ 7644'

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_9n_cbl\2018_
Dataset field/well/run1/pass4.1/_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	241

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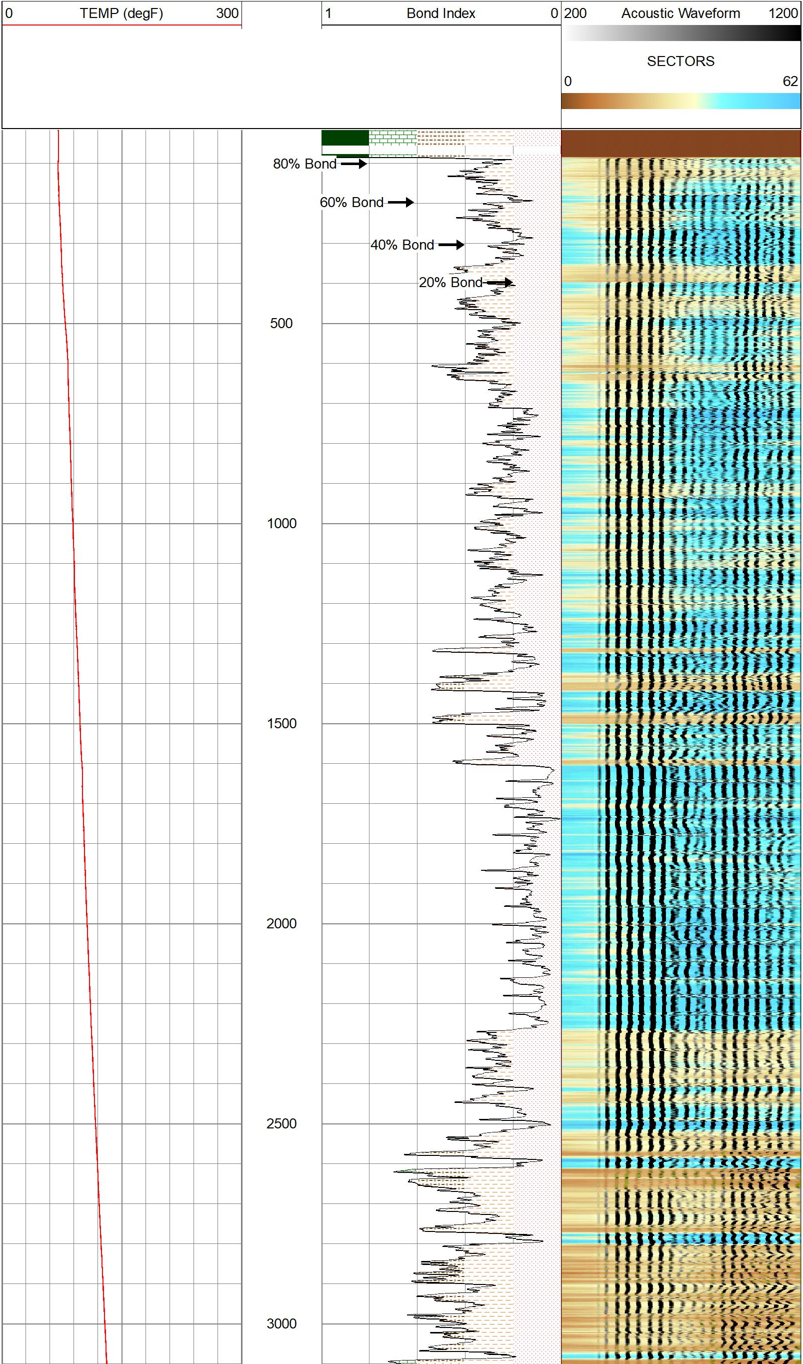
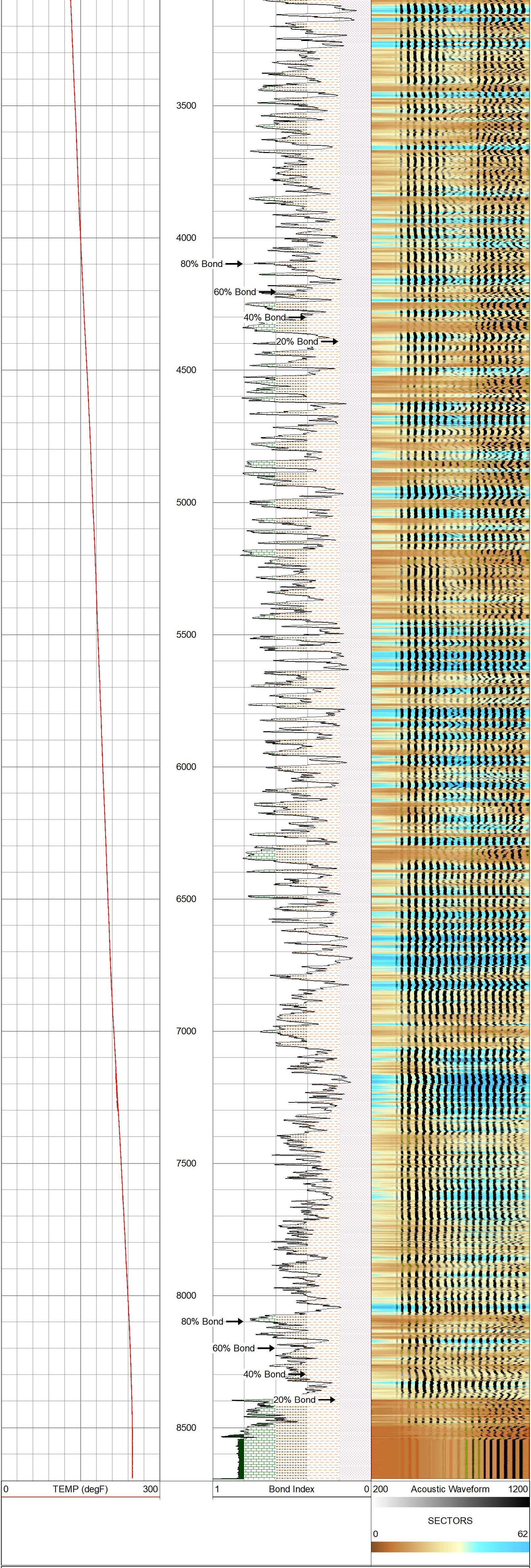
BOND INDEX

Database File	2018_04_16_extraction_coyote_trails_34s_20_9n_cbl\2018_04_16_extraction_coyote_trails_34s_20_9n_c
Dataset Pathname	BOND
Presentation Format	bndindx_msg-sec
Dataset Creation	Mon Apr 16 19:01:49 2018
Charted by	Depth in Feet scaled 1:3000





BOND INDEX

MAIN PASS - Ran with 0 PSI

5 in / 100 ft

Database File	2018_04_16_extraction_coyote_trails_34s_20_9n_cbl\2018_04_16_extraction_coyote_trails_34s_20_9n_c
Dataset Pathname	pass4.1
Presentation Format	rcbl_8s
Dataset Creation	Mon Apr 16 18:52:37 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]-

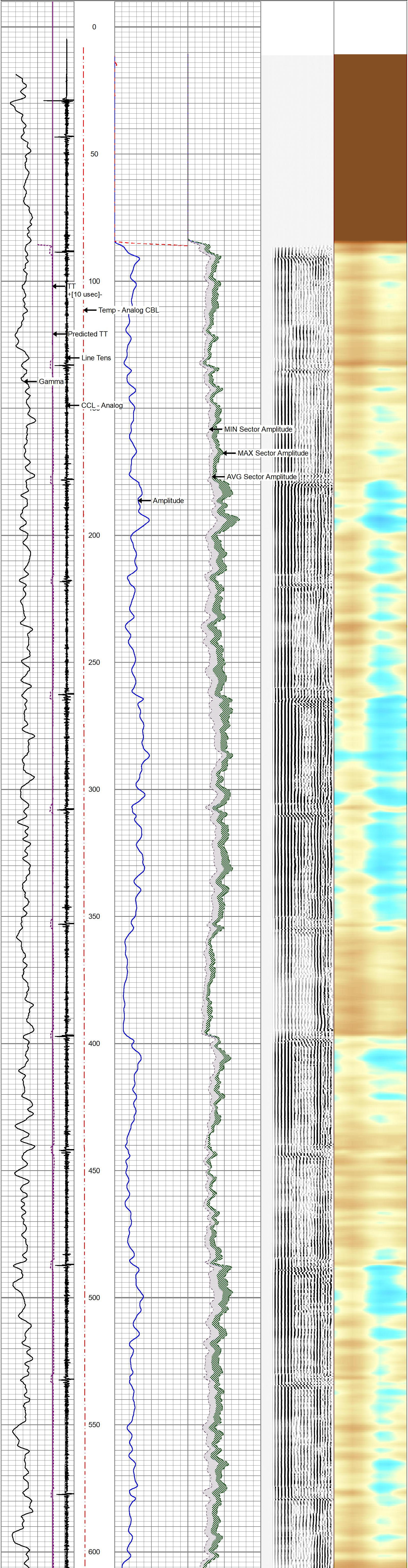
np - Analog C
(degF)
0 300

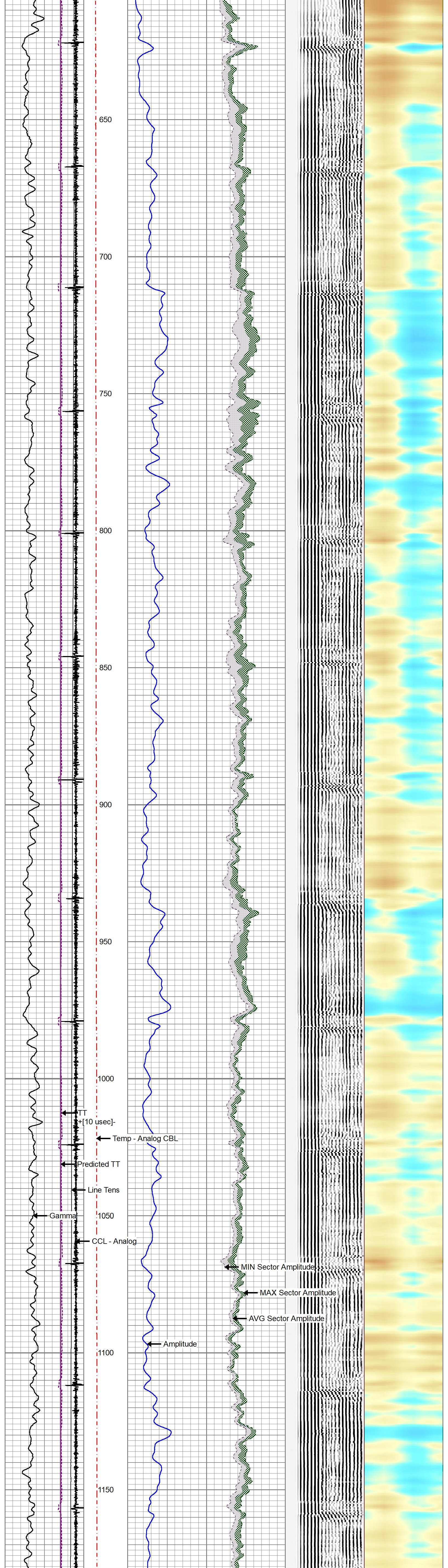
0 Amplitude (mV)100
Amplitude x10
0 (mV) 10

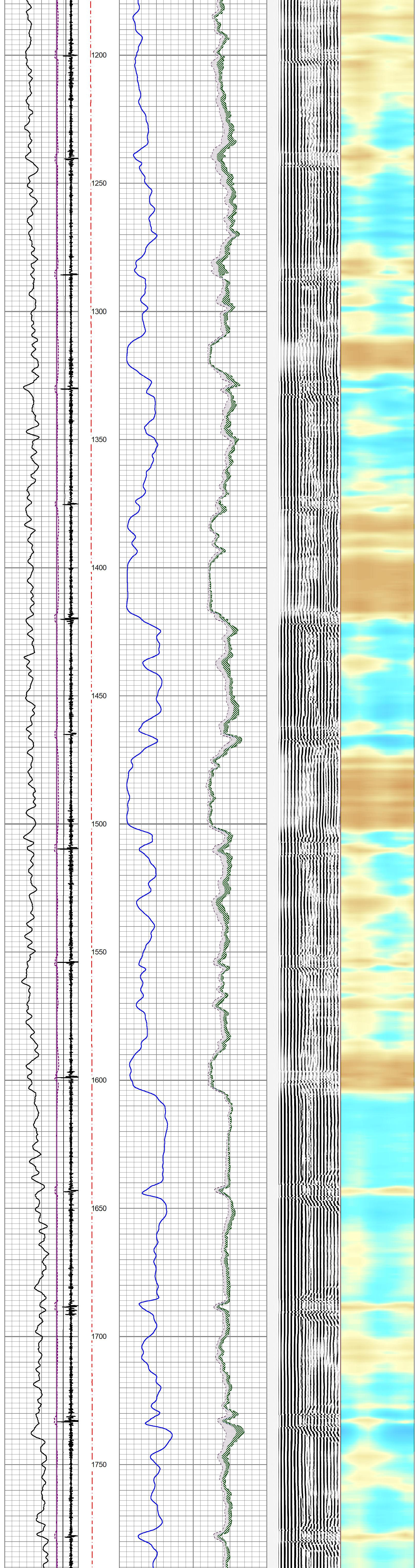
AVG Sector Amplitude
0 100
MAX Sector Amplitude
0 100
MIN Sector Amplitude
0 100

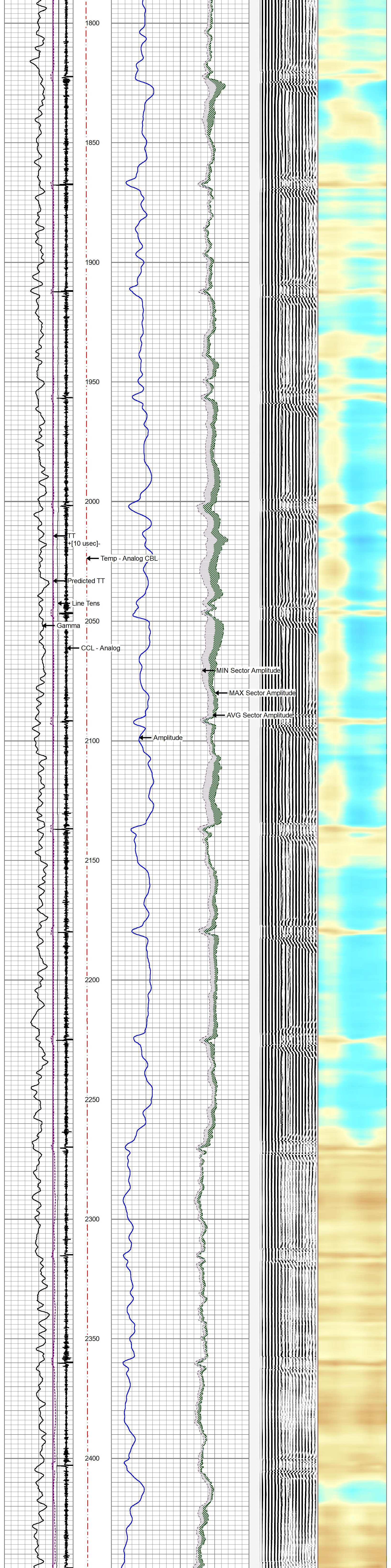
Acoustic Waveform
200 1200

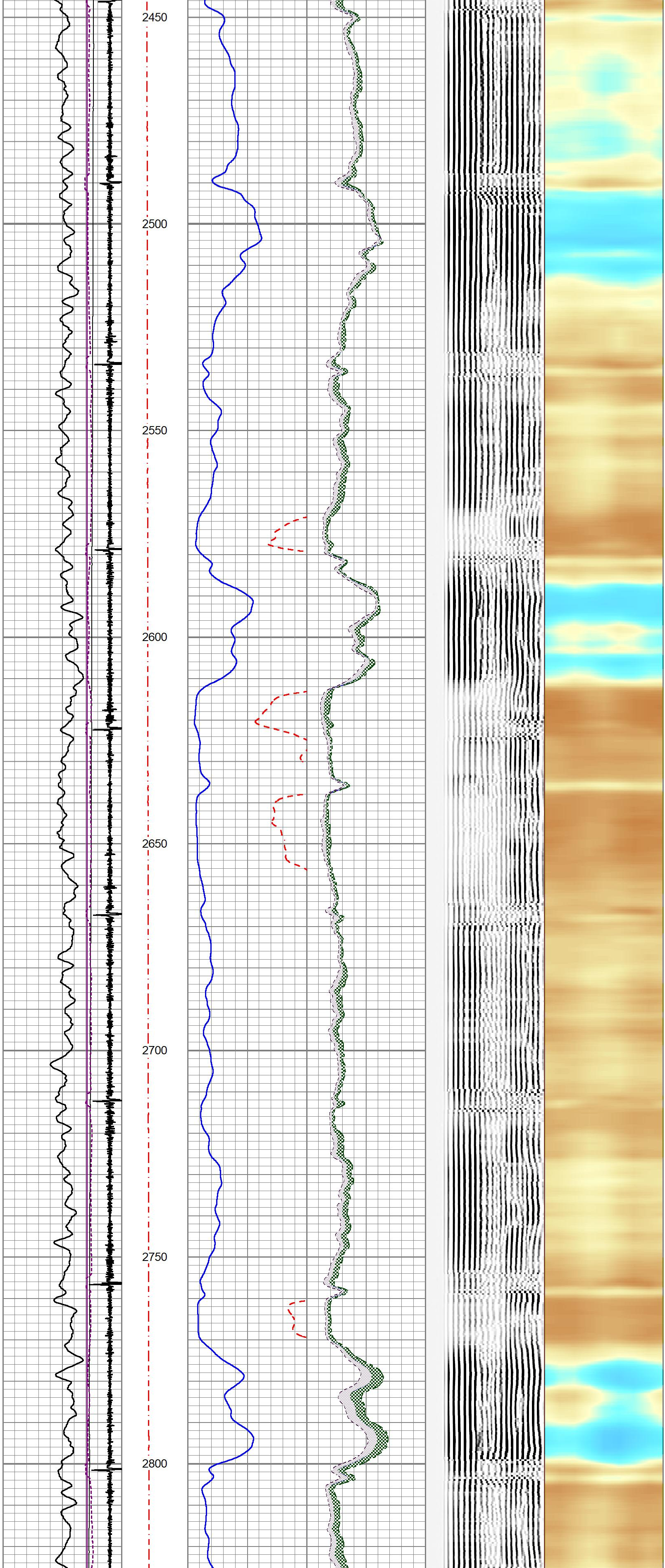
SECTORS
0 72

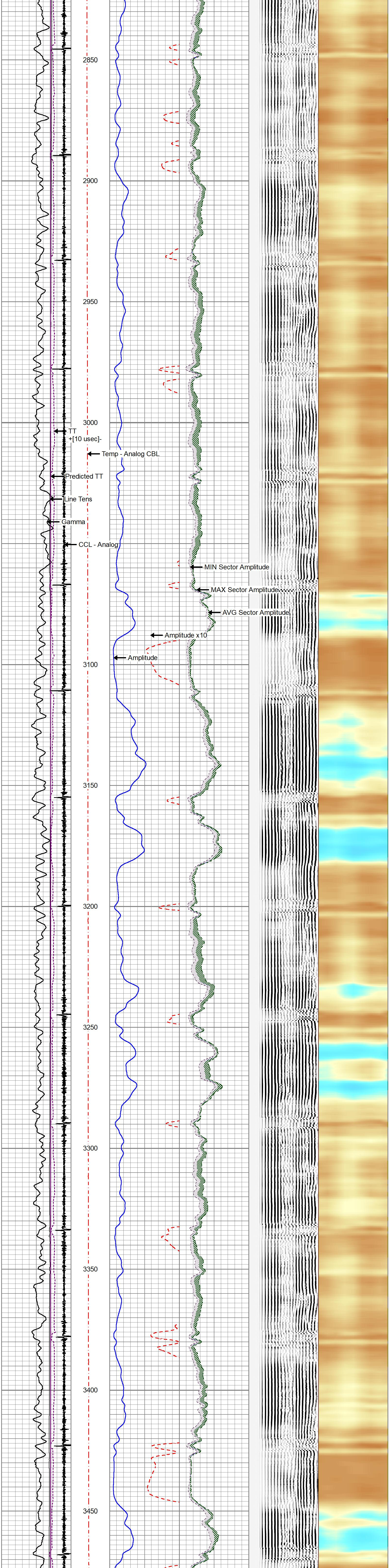


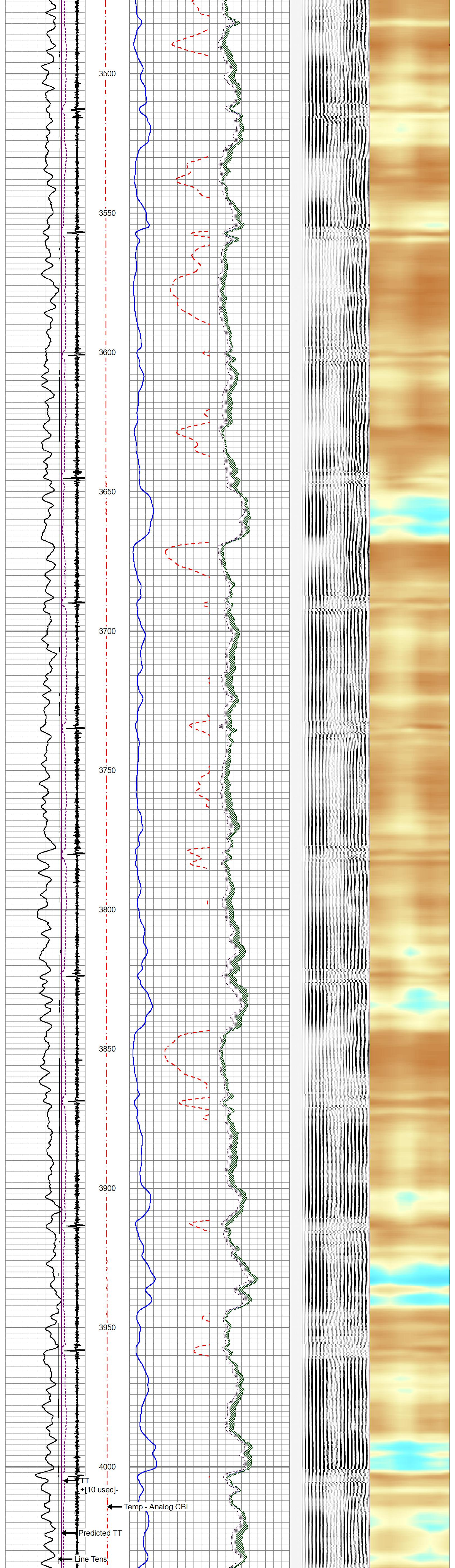


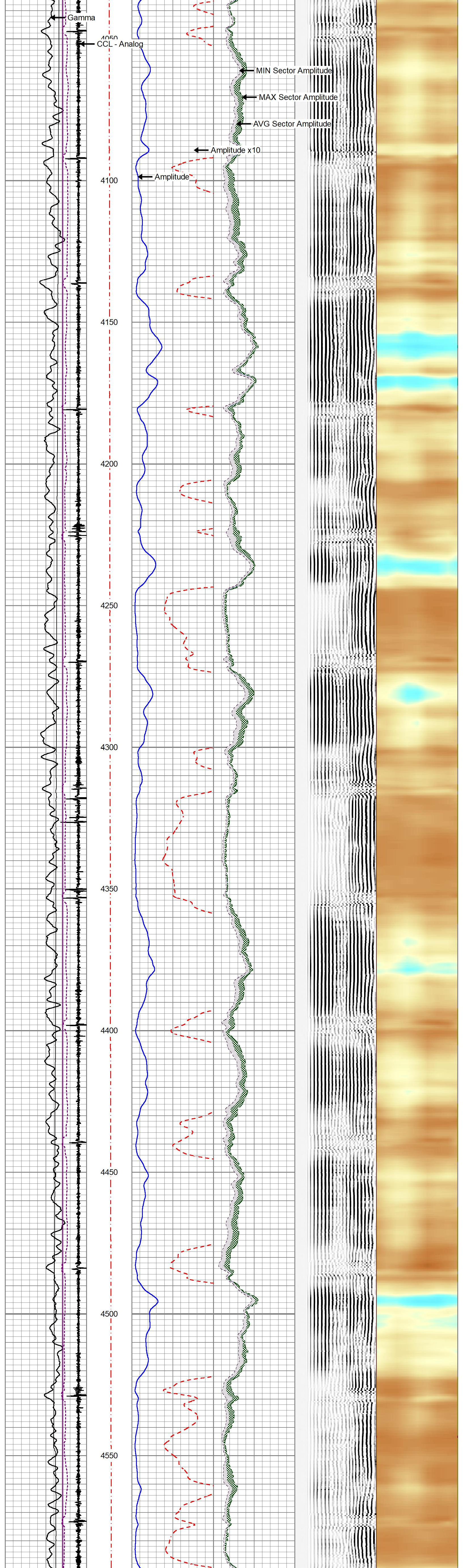


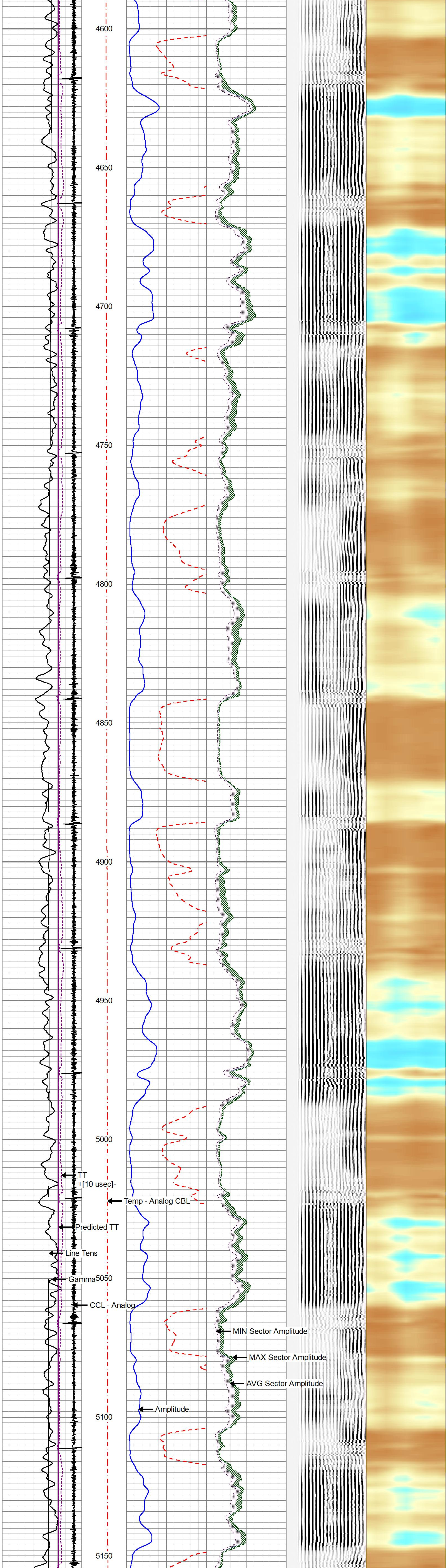


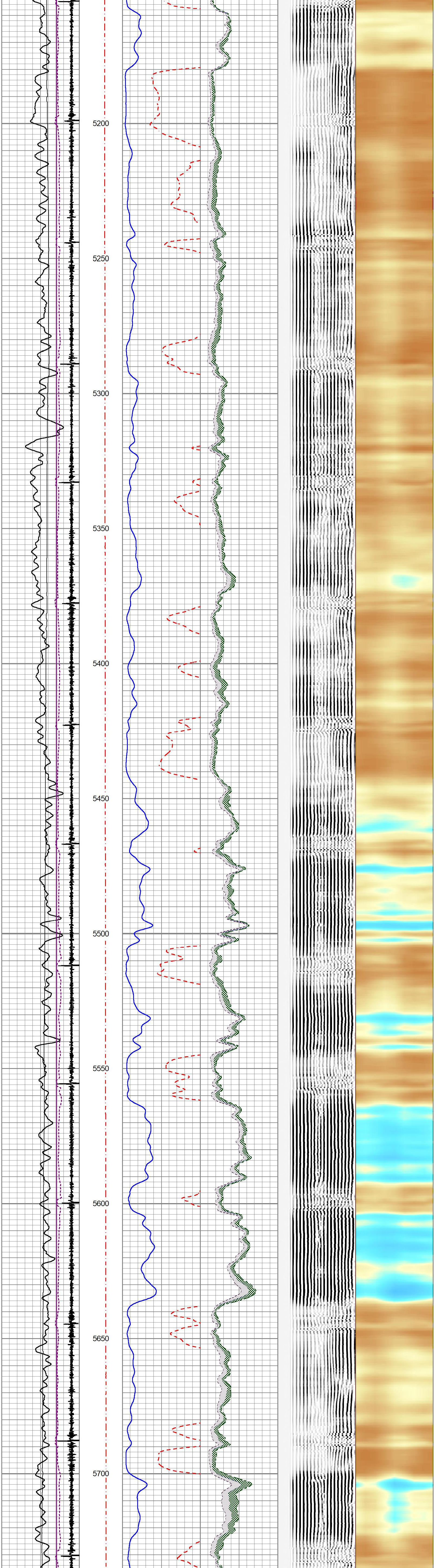


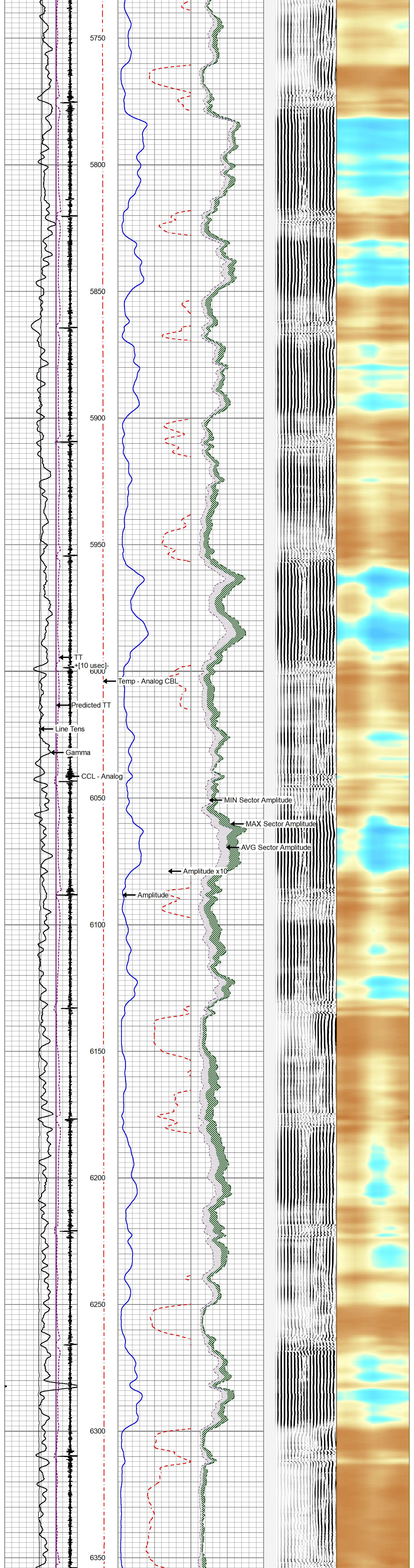

2850
2900
2950
3000
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
Amplitude
3100
3150
3200
3250
3300
3350
3400
3450

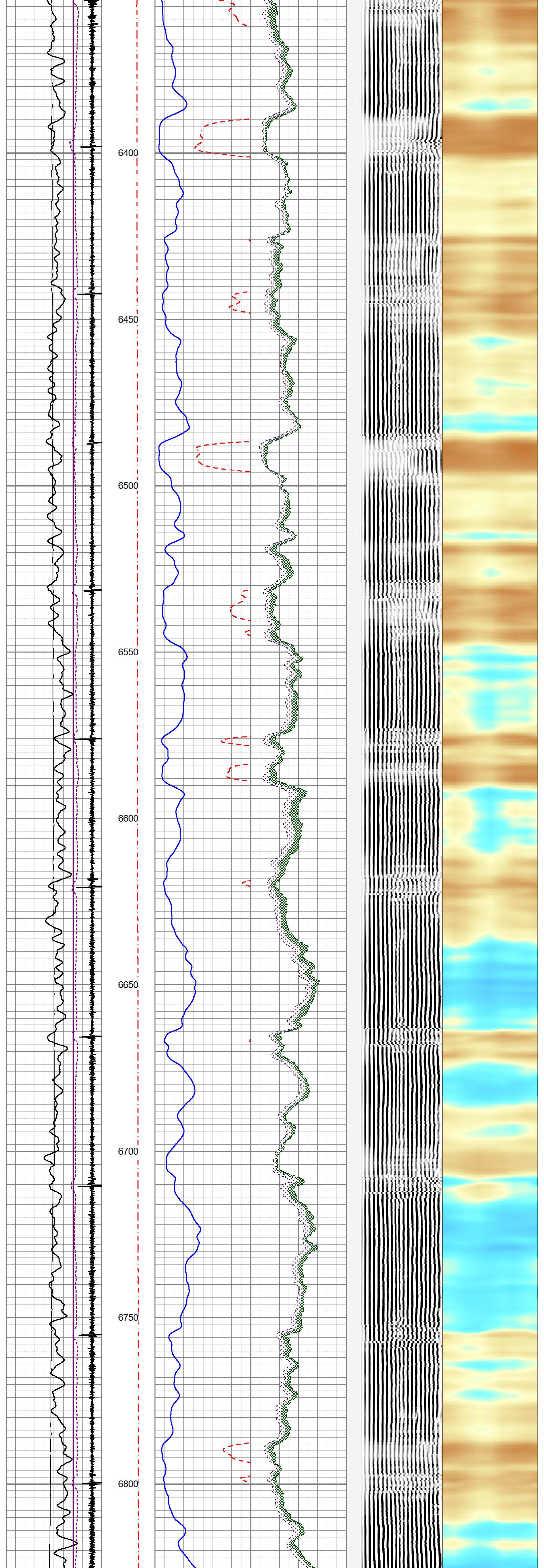

3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
4000
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens

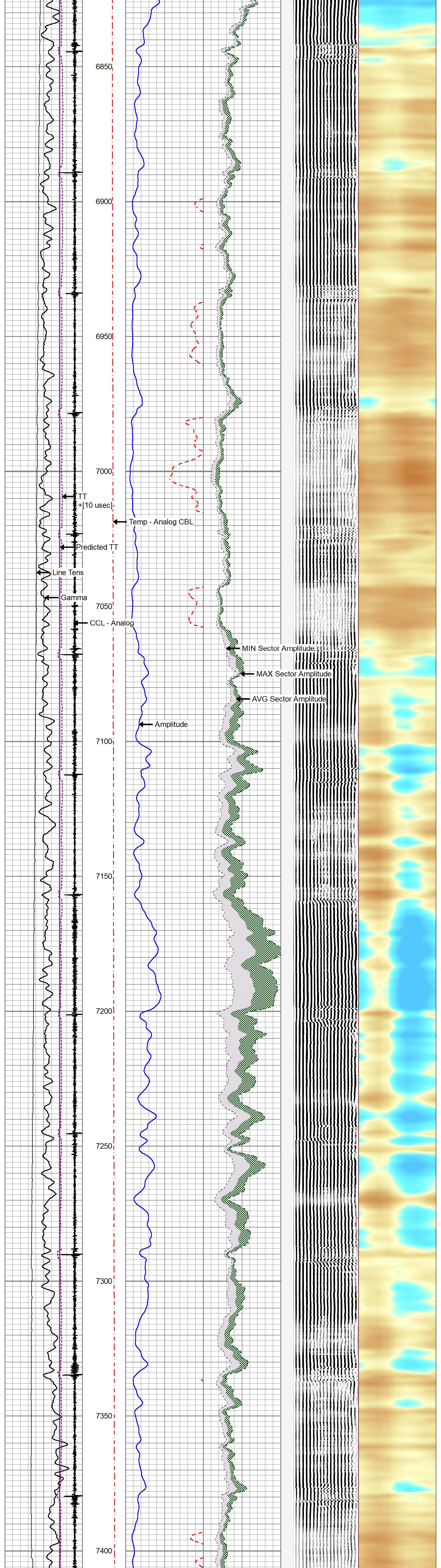

Gamma
CCL - Analog
4050
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
Amplitude
4100
4150
4200
4250
4300
4350
4400
4450
4500
4550

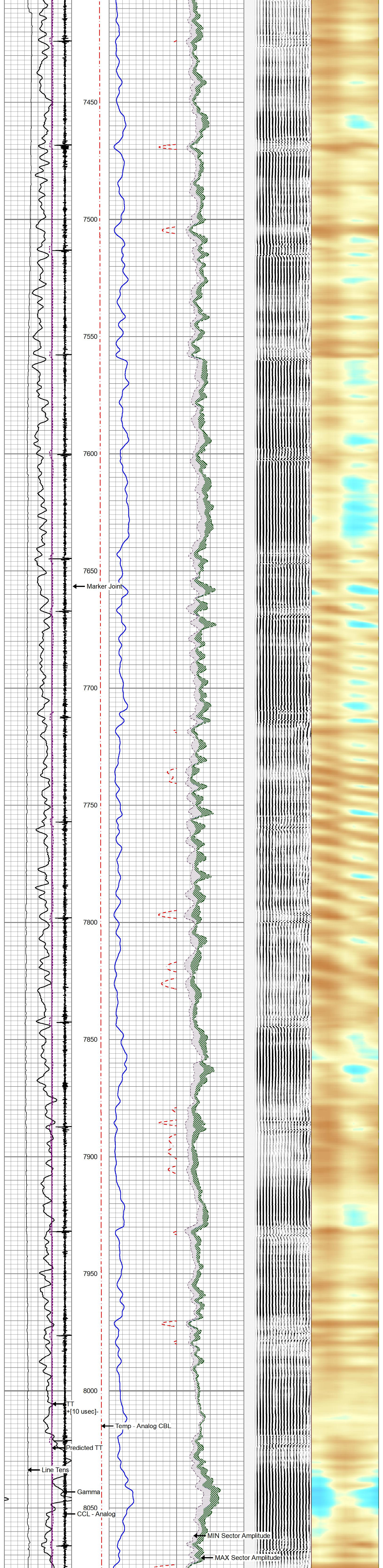

4600
4650
4700
4750
4800
4850
4900
4950
5000
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
5050
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude
5100
5150

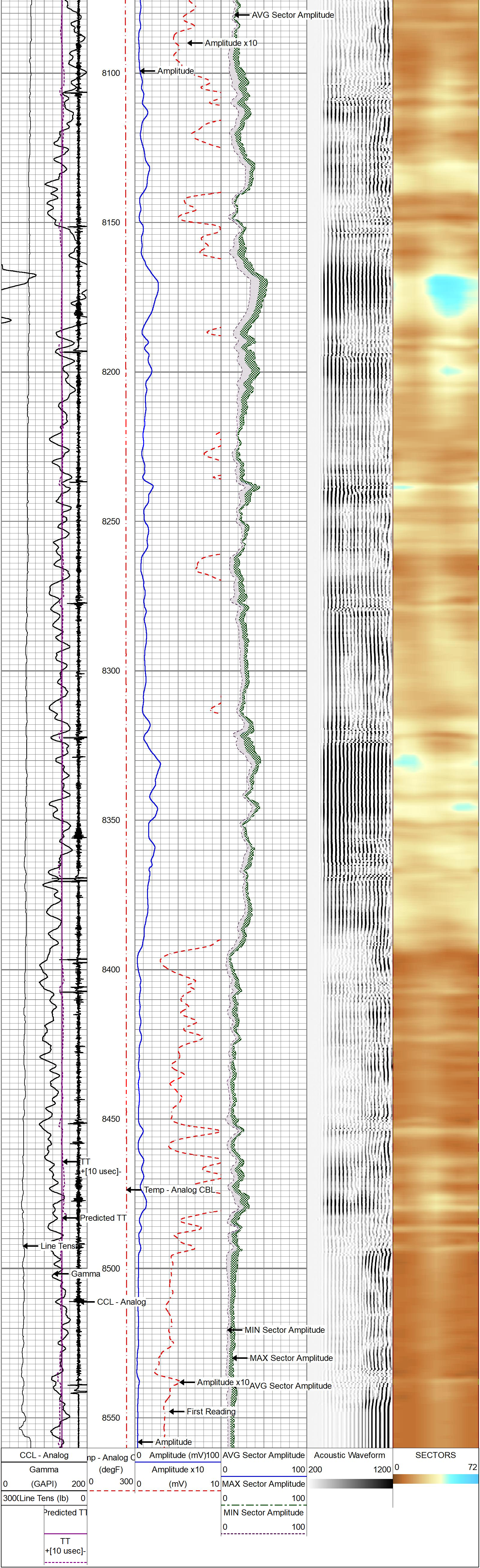

5200
5250
5300
5350
5400
5450
5500
5550
5600
5650
5700


5750
5800
5850
5900
5950
TT
[10 usec]-
6000
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
CCL - Analog
6050
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
Amplitude
6100
6150
6200
6250
6300
6350


6400
6450
6500
6550
6600
6650
6700
6750
6800







MAIN PASS - Ran with 0 PSI

5 in / 100 ft

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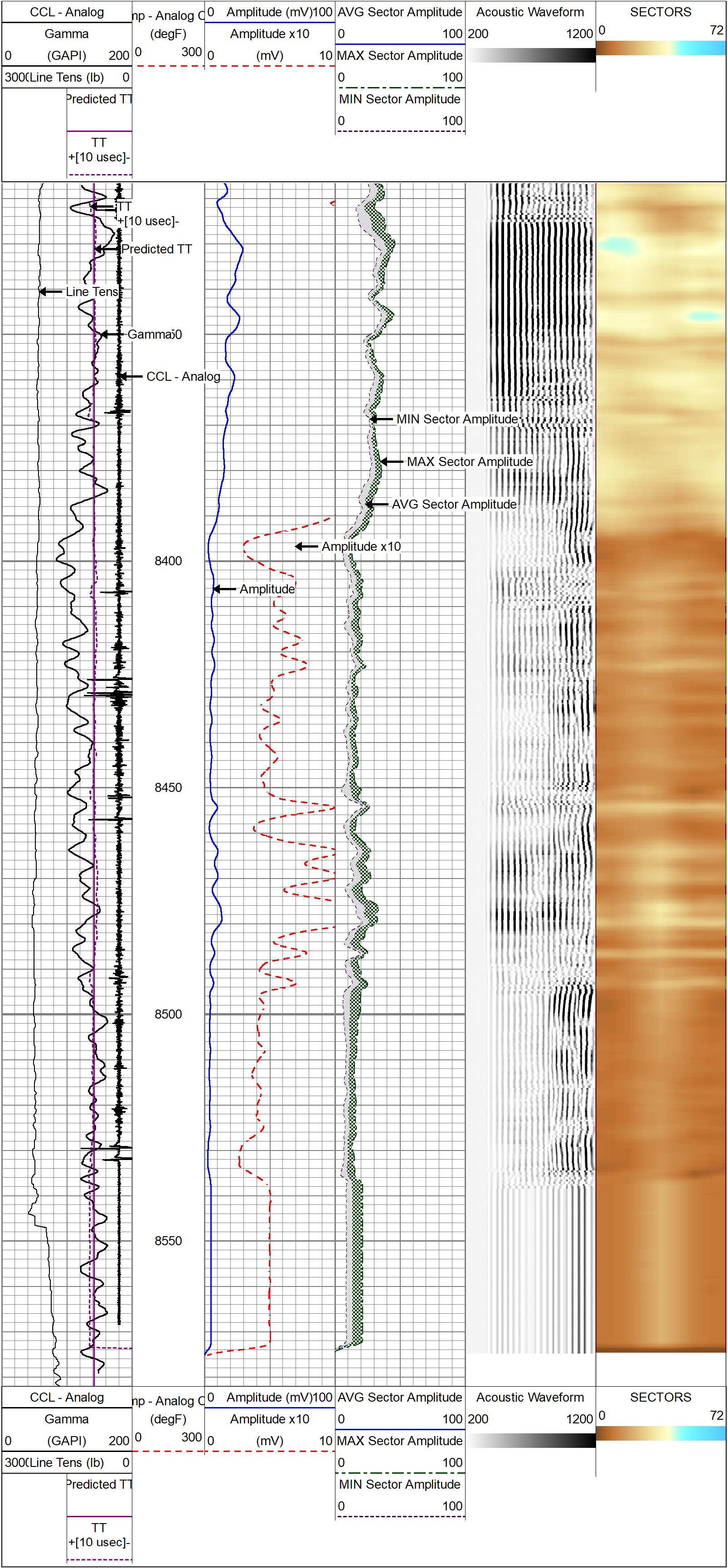
REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	2018_04_16_extraction_coyote_trails_34s_20_9n_cbl\2018_04_16_extraction_coyote_trails_34s_20_9n_
Dataset Pathname	Repeat
Presentation Format	rcbl_8s
Dataset Creation	Mon Apr 16 19:07:35 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	c:\programdata\warrior\data\2018_04_16_extraction_coyote_trails_34s_20_9n_cbl\2018_04_16_extraction_
Dataset Pathname	pass4.1
Dataset Creation	Mon Apr 16 18:52:37 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	0.842	0.000	62.165	73.734	0.113
CAL	-0.005	0.510				
5'	-0.001	0.772	0.000	62.165	80.396	0.119
SUM						
S1	0.017	0.619	0.000	62.165	103.311	-1.774
S2	0.020	0.760	0.000	62.165	83.905	-1.637
S3	0.019	0.989	0.000	62.165	64.144	-1.250
S4	0.017	1.057	0.000	62.165	59.741	-0.990
S5	0.021	0.915	0.000	62.165	69.545	-1.438
S6	0.024	0.682	0.000	62.165	94.398	-2.248
S7	0.020	0.631	0.000	62.165	101.752	-2.037
S8	0.017	0.599	0.000	62.165	106.637	-1.764

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

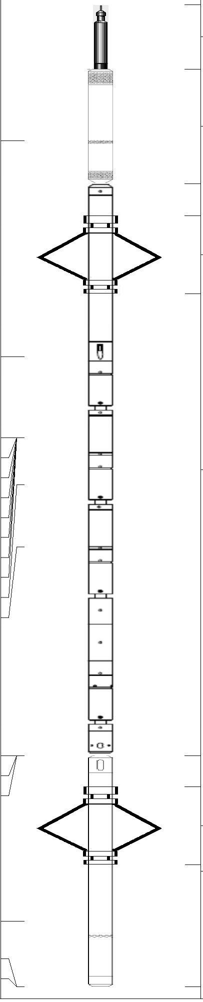
Serial Number:	IT4B1-01
Tool Model:	2 3/4" RIB Analog
Performed:	Fri Aug 26 11:07:15 2016

	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)
CCL	13.50
TEMP	10.05
WVFS8	8.76
WVFS7	8.76
WVFS6	8.76
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
GR	1.04
LOCTIM	0.00
UTCTIM	0.00

Schematic



Description	Length (ft)	O.D. (in)	Weight (lb
CableHead-TitanConeType2	1.03	1.44	3.60
CCL_Log-2 3/4" TekCo (IPSN7-03)	1.83	2.75	33.00
Antelope-Overbody	1.25	2.75	
RBTA-2 3/4" RIB Analog (IT4B1-01)	9.13	2.75	102.00
Antelope-Overbody	1.25	2.75	
GR_Log-2 3/4" TekCo (ISHV2-03)	3.68	2.75	47.00

Dataset:	2018_04_16_extraction_coyote_trails_34s_20_9n_cbl.db: field/well/run1/pass4.1
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 34S-20-9N
Field	Wattenburg
County	Weld
State	Co
Country	U.S.A.