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CEMENT BOND LOG

Company	Extraction Oil and Gas
Well	Launer 6
Field	Wattenberg
County	Weld
State	CO

Company Extraction Oil and Gas
Well Launer 6
Field Wattenberg
County Weld **State** CO

API # : 05-123-45173
Location: 792' FSL & 349' FEL
Lat: 40.540068
Long: -104.852209

SEC: 26 TWP: 7N RGE: 67W

Other Services

Elevation
K.B. 4951'
D.F. -----
G.L. 4926'

Permanent Datum: Ground Level Elevation: 4926'
Log Measured From: Kelly Bushing , 25 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	29 Dec 2017		
Run Number	One		
Plug Back T.D. Driller	-----		
Plug Back T.D. Logger	-----		
Bottom Logged Interval	7,294'		
Top Log Interval	Surface		
Type Fluid	-----		
Density / Viscosity	-----		
Max. Recorded Temp.	229°F		
Time Logger on Bottom	09:30		
Equipment Number	GD 114		
Location	Casper, WY		
Recorded By	J. Baker		
Witnessed By			

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8"	36#	Surface	1500'				
5 1/2"	20#	Surface	14,668'				

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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 # : RM1217WLOW854
Your Crew Today: M. Velasquez, 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	120'
40 % Bond	120'
60 % Bond	966'
80 % Bond	3683'
100 % Bond	-----

Comments

Marker joint located at 6,528'

Thank you for using Gyrodata

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

Log Variables

Databasec:\warrior\2017_12_28_extraction_launer_6_cbl\2017_12_28_extraction_launer_6_cbl.db
Dataset field/well/run1/pass2.2/_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	240

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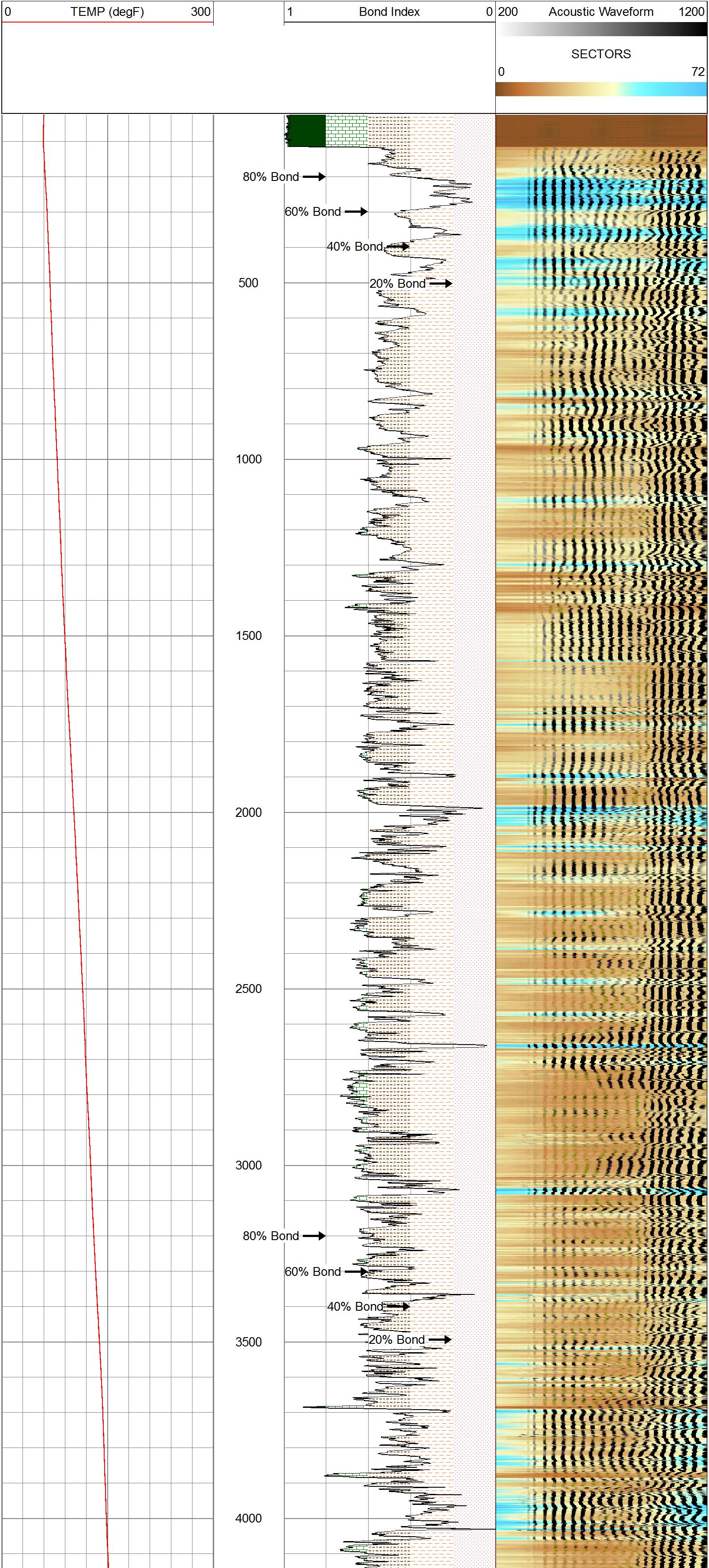
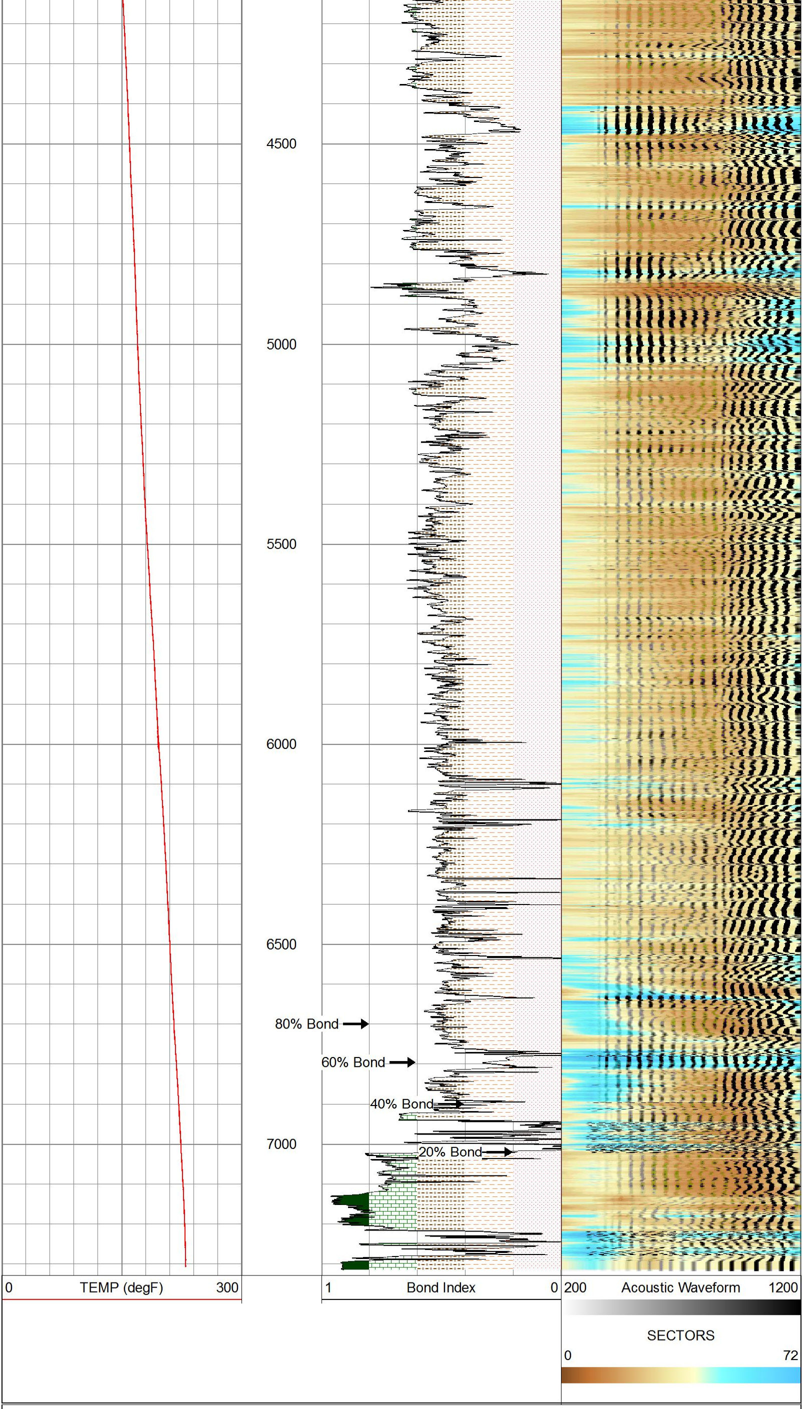
BOND INDEX

Database File c:\warrior\2017_12_28_extraction_launer_6_cbl\2017_12_28_extraction_launer_6_cbl.db
Dataset Pathname pass2.3
Presentation Format bndindx_msg-sec
Dataset Creation Fri Dec 29 09:38:33 2017
Charted by Depth in Feet scaled 1:3000





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BOND INDEX

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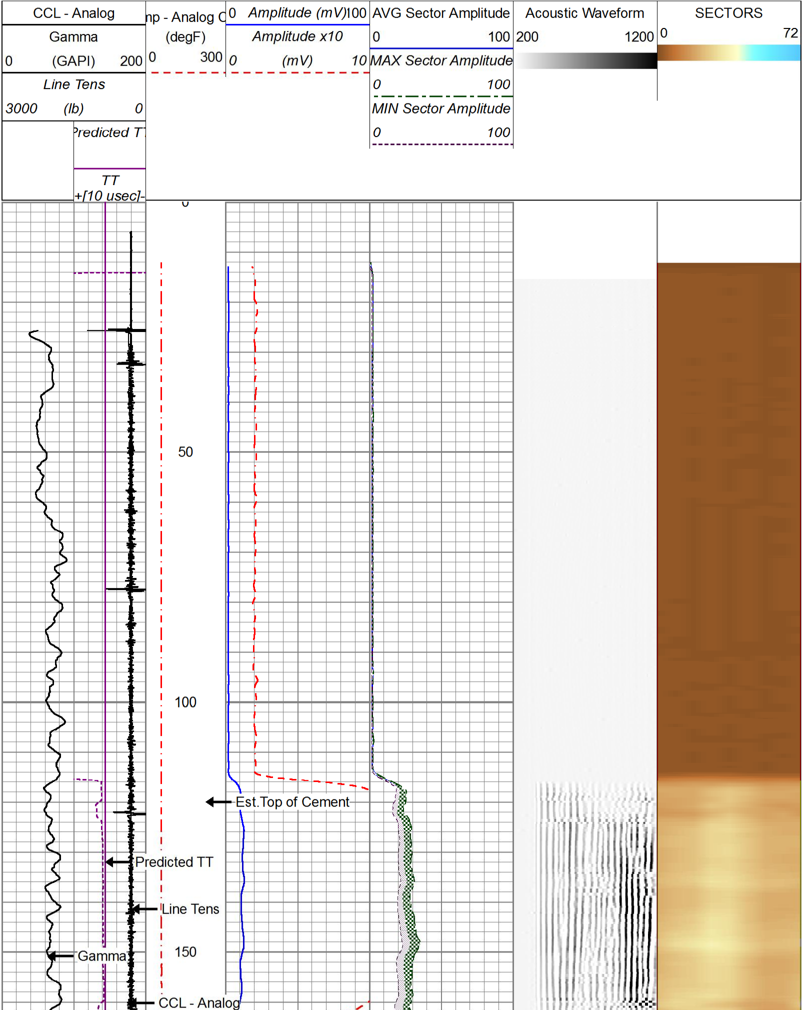
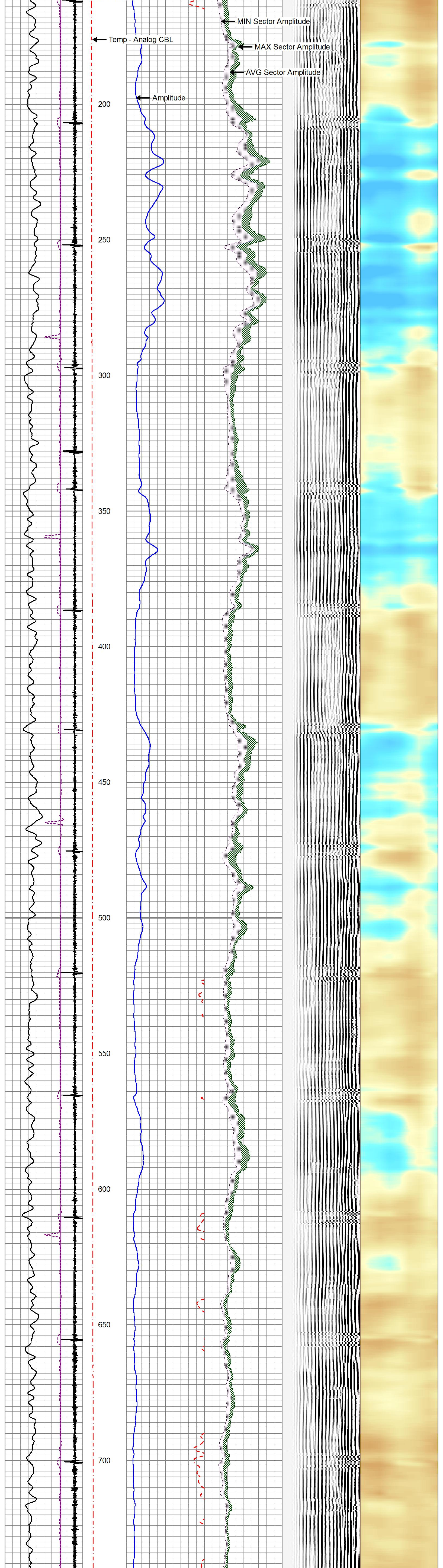
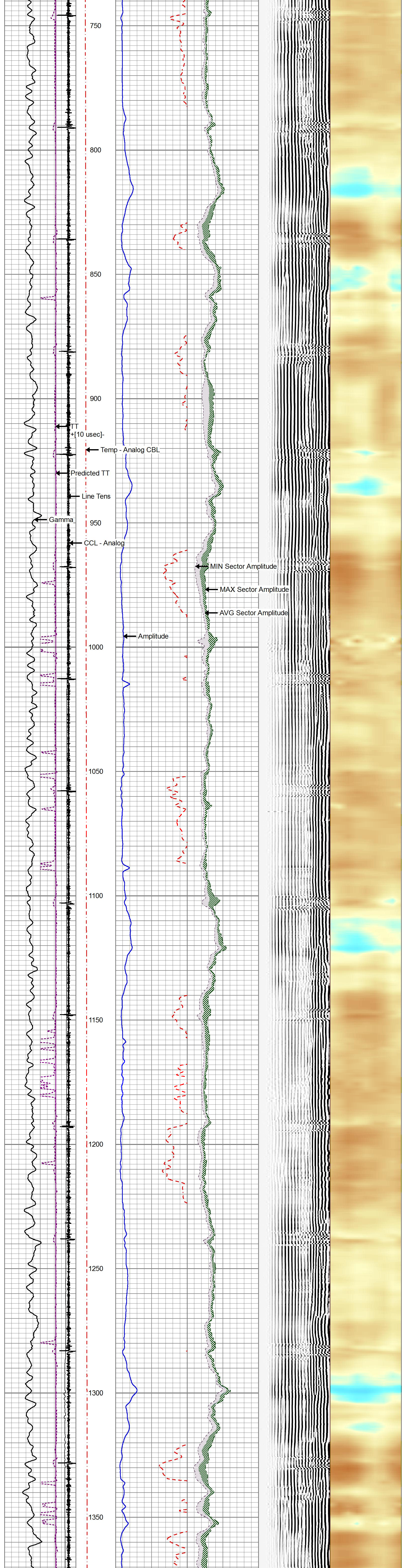
MAIN PASS - Ran with 0 PSI

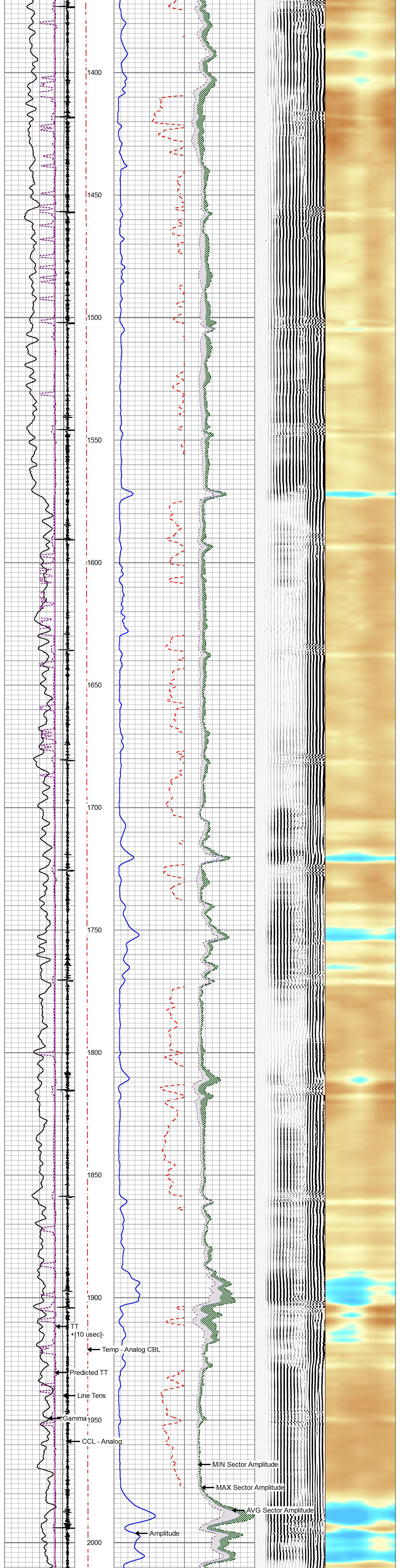
5 in / 100 ft

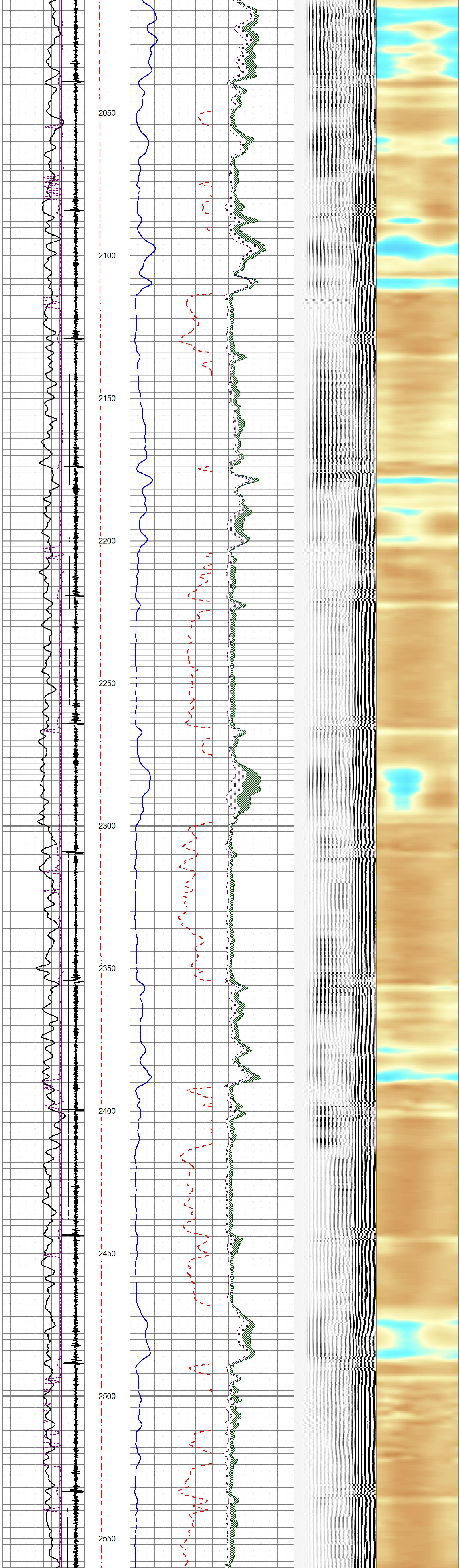
Database File	c:\warrior\2017_12_28_extraction_launer_6_cbl\2017_12_28_extraction_launer_6_cbl.db
Dataset Pathname	pass2.2
Presentation Format	rcbl_8s
Dataset Creation	Fri Dec 29 09:36:54 2017
Charted by	Depth in Feet scaled 1:240

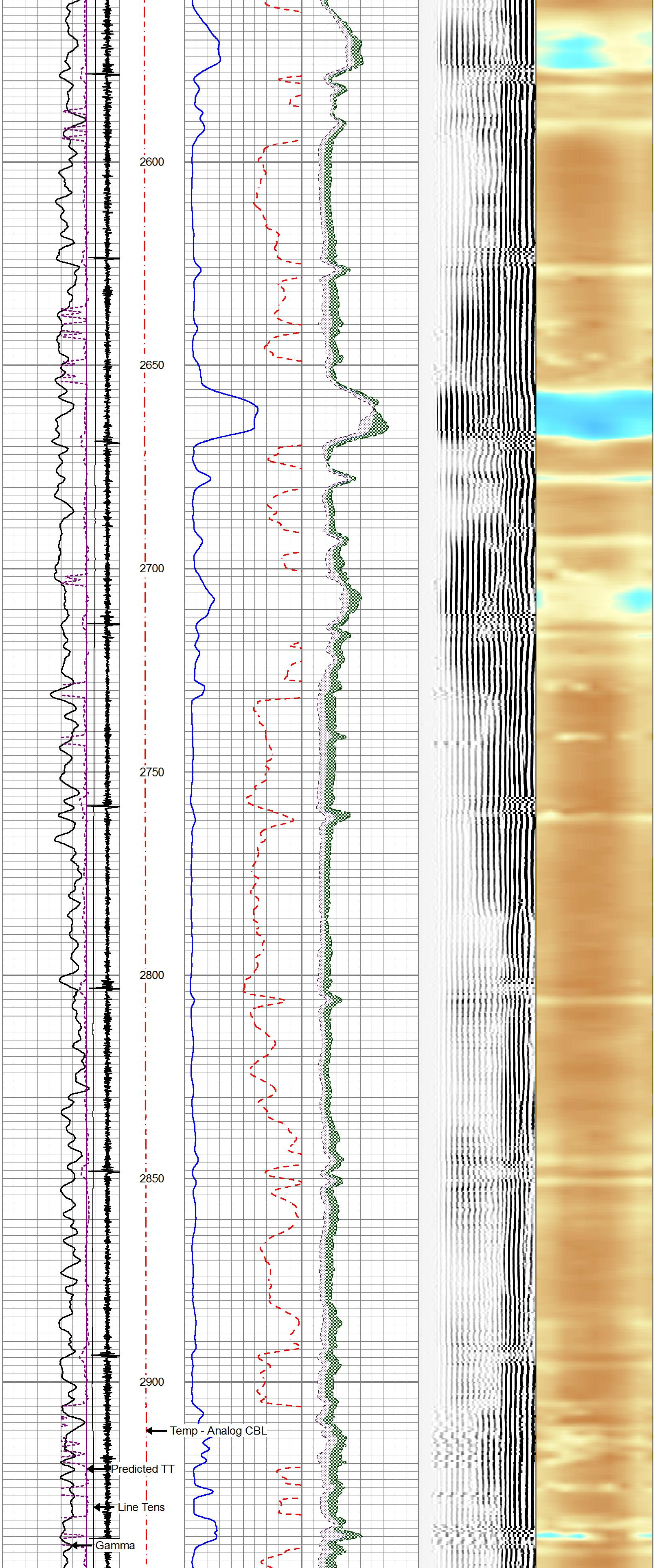


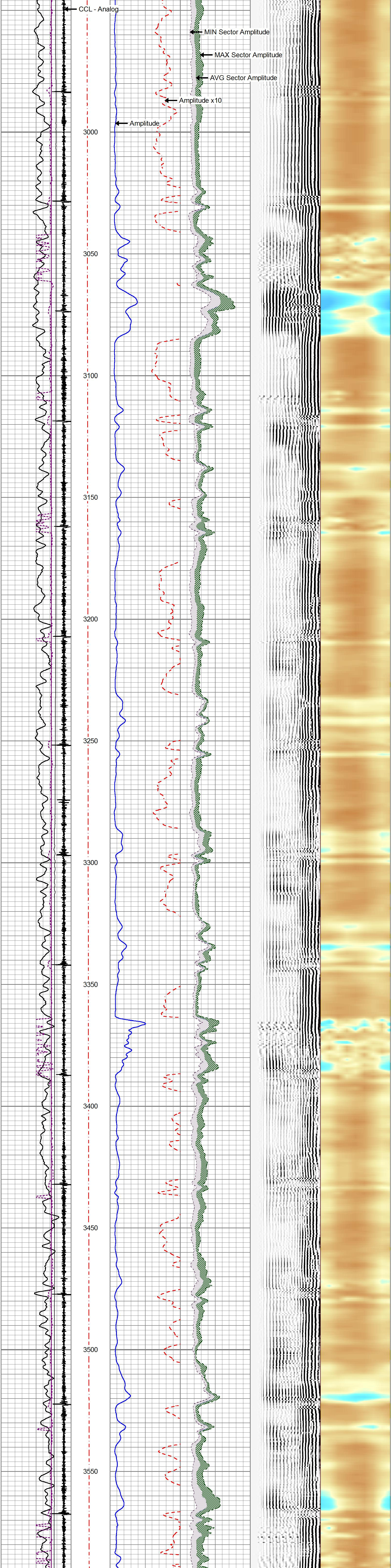


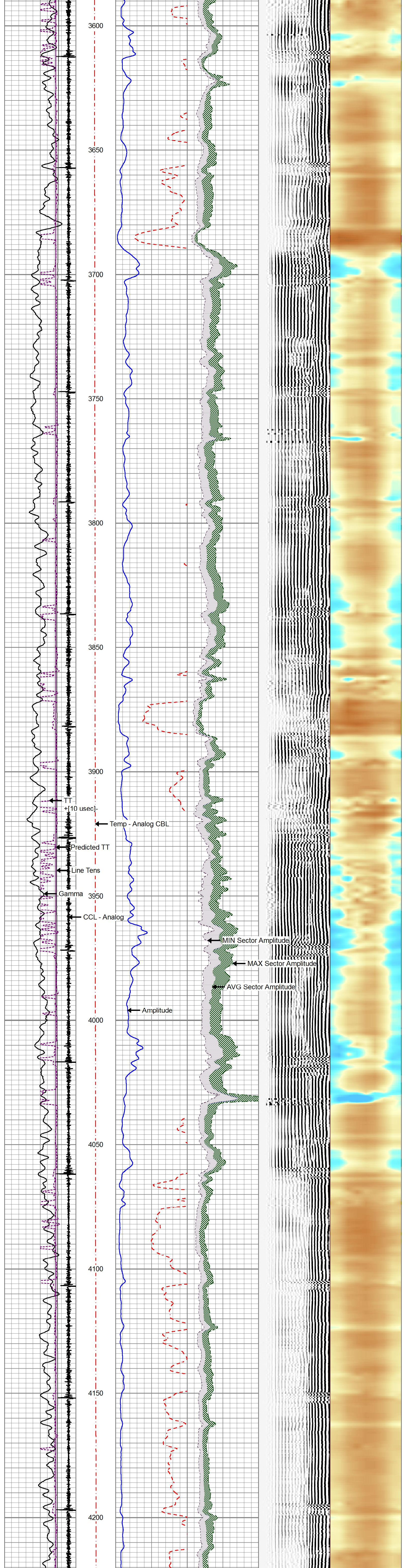


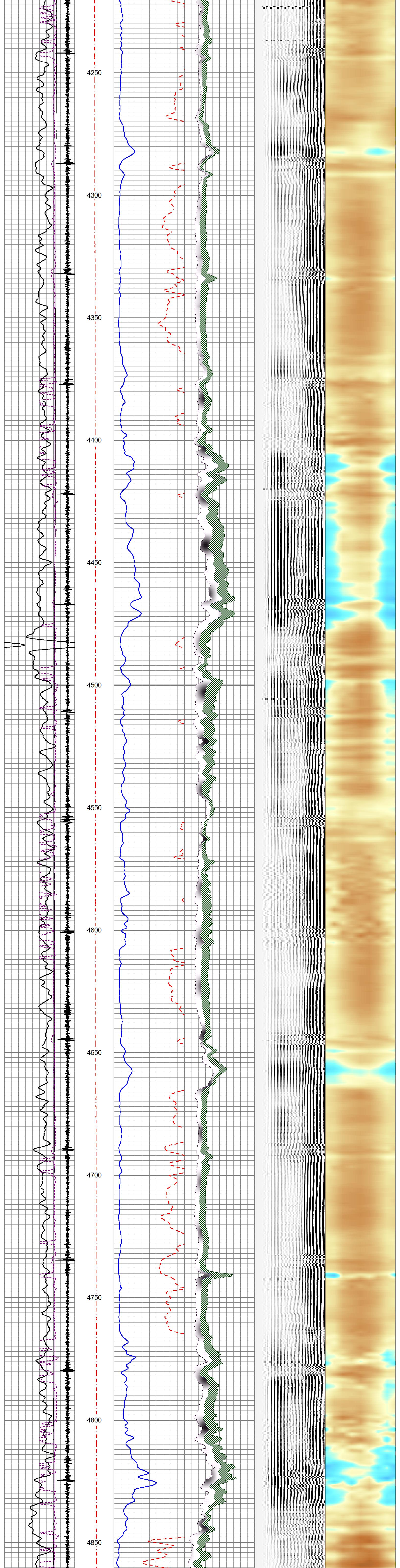


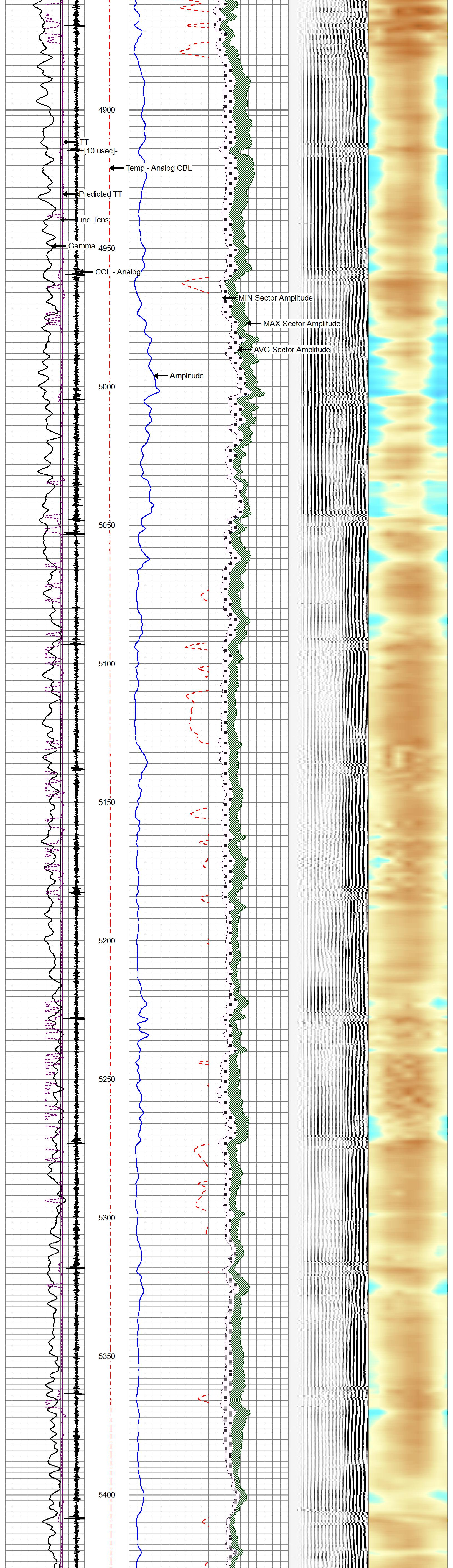


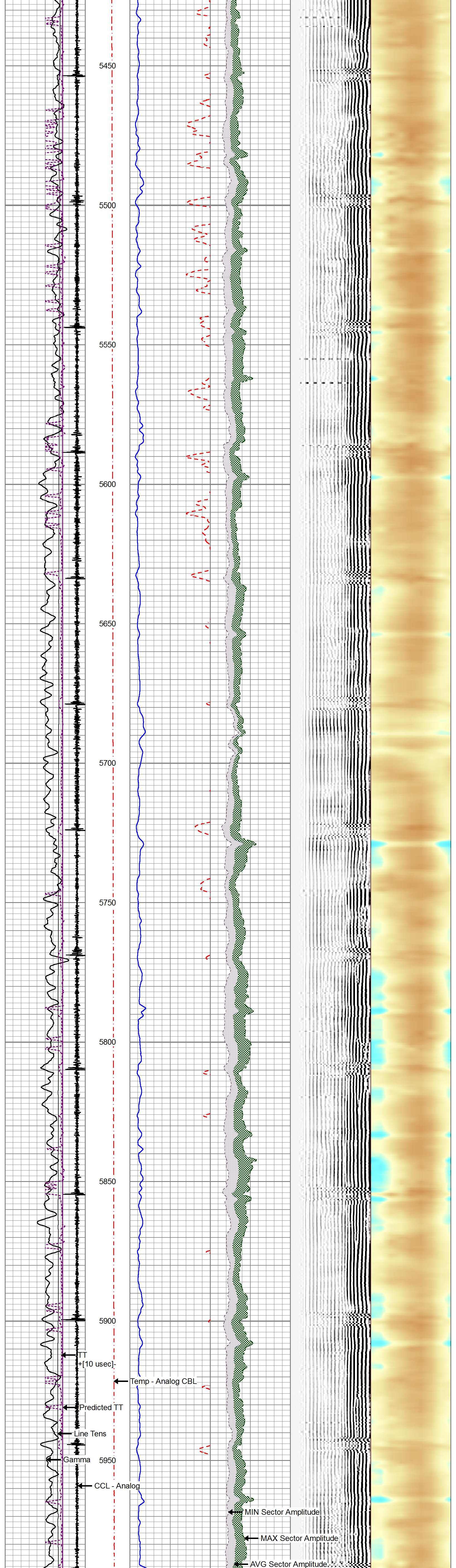


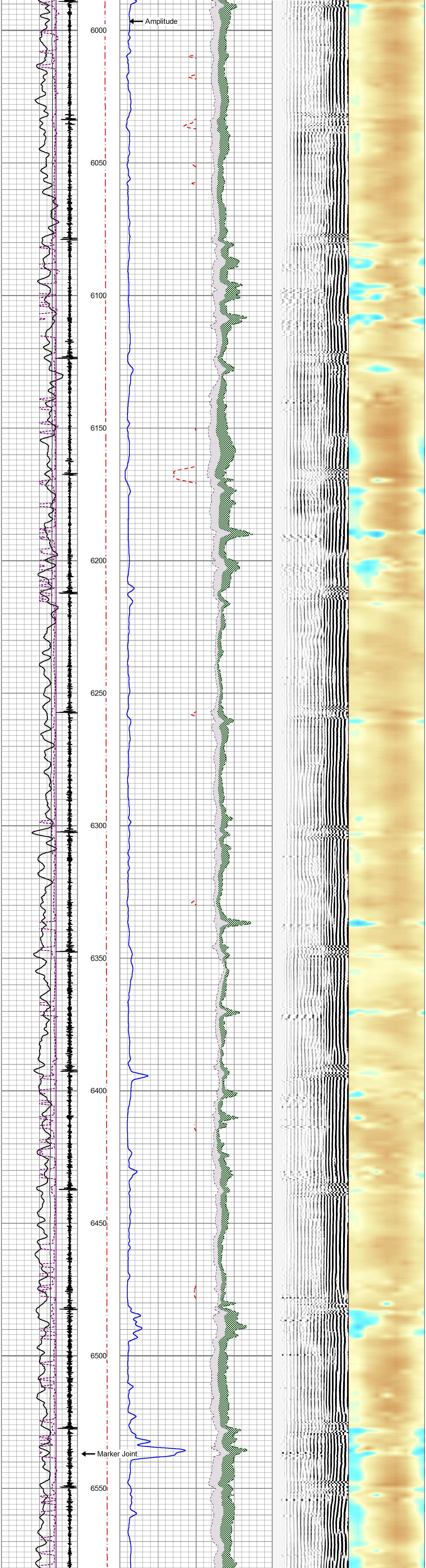

CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude x10
Amplitude
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550

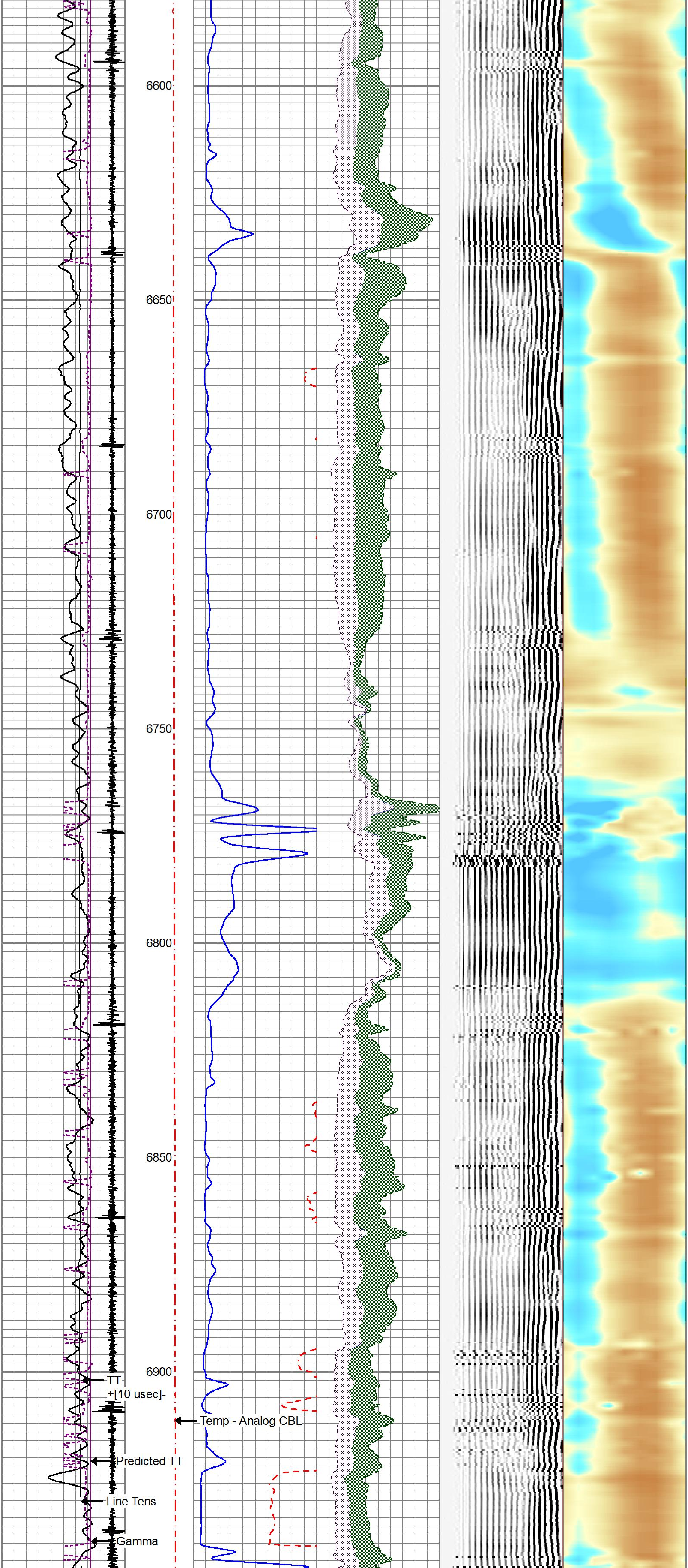

3600
3650
3700
3750
3800
3850
3900
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
3950
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude
4000
4050
4100
4150
4200

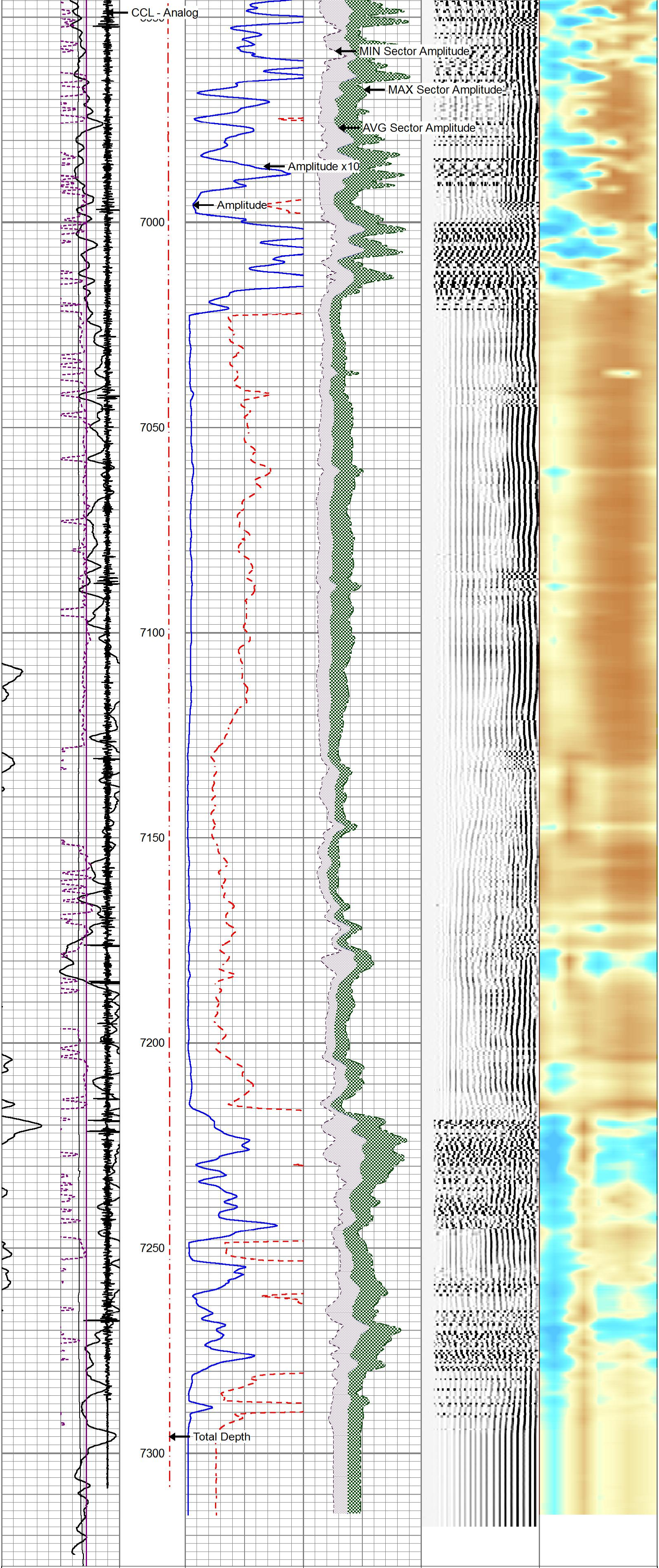

4250
4300
4350
4400
4450
4500
4550
4600
4650
4700
4750
4800
4850


TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude
4900
4950
5000
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
6150
6200
6250
6300
6350
6400
6450
6500
Marker Joint
6550


6600
6650
6700
6750
6800
6850
6900
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
Gamma



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

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MAIN PASS - Ran with 0 PSI

5 in / 100 ft

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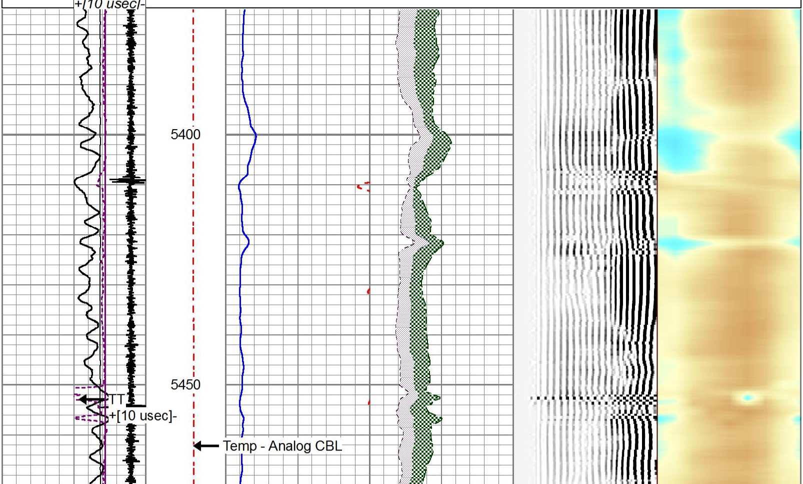
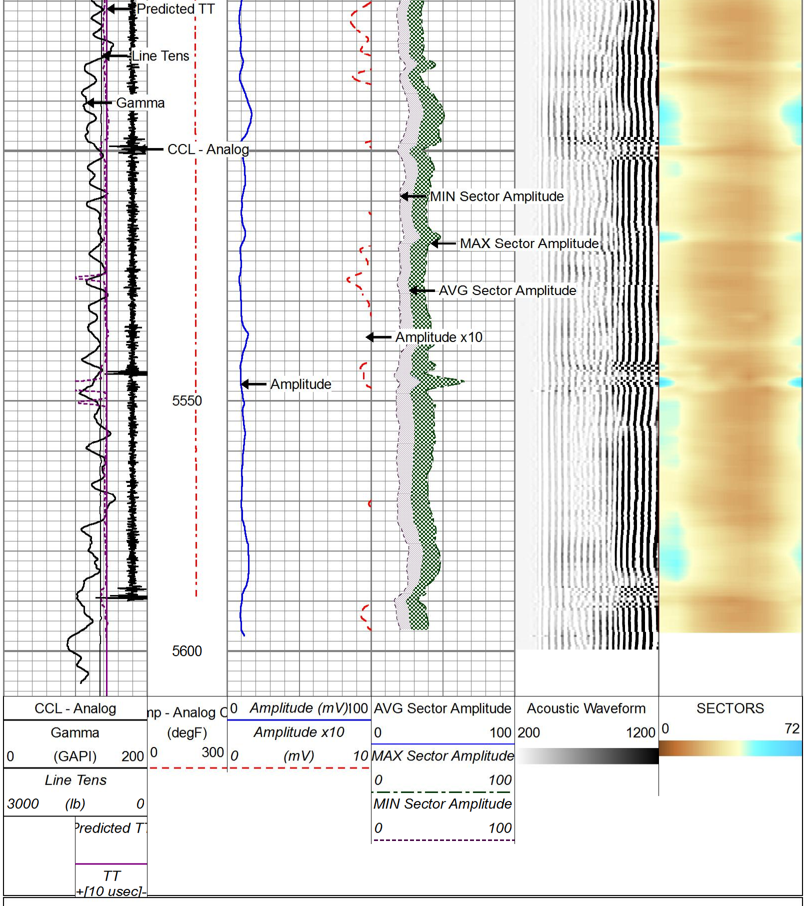
REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	c:\warrior\2017_12_28_extraction_launer_6_cbl\2017_12_28_extraction_launer_6_cbl.db
Dataset Pathname	pass7.1
Presentation Format	rcbl_8s
Dataset Creation	Fri Dec 29 10:17:50 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	(degF)	*Amplitude x10*	0 100	200 1200	0 72
0 (GAPI) 200	0 300	*0 (mV) 10*	*MAX Sector Amplitude*		
Line Tens			*0 100*		
3000 (lb) 0			*MIN Sector Amplitude*		
redicted T			*0 100*		
TT *+[10 usec]-*					





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REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Calibration Report

Database File	c:\warrior\2017_12_28_extraction_launer_6_cbl\2017_12_28_extraction_launer_6_cbl.db
Dataset Pathname	pass2.2
Dataset Creation	Fri Dec 29 09:36:54 2017

Gamma Ray Calibration Report

Serial Number:	ISHV2-02	
Tool Model:	2 3/4" TekCo	
Performed:	Tue Dec 13 00:15:13 2016	
Calibrator Value:	194.0	GAPI
Background Reading:	59.8	cps
Calibrator Reading:	287.6	cps
Sensitivity:	0.8516	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:	633.360	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	1.031	2.000	62.165	58.462	1.867
CAL	-0.010	0.898				
5'	-0.005	1.244	2.000	62.165	48.206	2.220
SUM						
S1	0.024	0.896	2.000	62.165	69.054	0.309
S2	0.021	0.742	2.000	62.165	83.433	0.236
S3	0.021	0.775	2.000	62.165	79.841	0.291
S4	0.023	0.758	2.000	62.165	81.815	0.134
S5	0.022	0.883	2.000	62.165	69.875	0.494
S6	0.017	1.068	2.000	62.165	57.279	1.005
S7	0.021	1.203	2.000	62.165	50.871	0.946
S8	0.024	1.061	2.000	62.165	57.997	0.628

Internal Reference Calibration, performed (Not Performed):

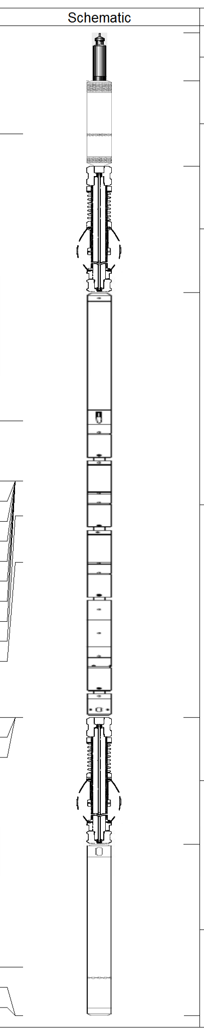
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.010	0.898	1.000	0.000

Air Zero Calibration, performed (Not Performed):

	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		RBTA-2 3/4" RIB Analog (IPPO2-01)	9.13	2.75	102.00
WVFS6	11.49					
WVFS5	11.49					
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 (ISHV2-02)	3.68	2.75	47.00
GR	1.04					
LOCTIM	0.00					
UTCTIM	0.00					

Dataset:	2017_12_28_extraction_launer_6_cbl.db: field/well/run1/pass2.2
Total length:	21.13 ft
Total weight:	235.60 lb
O.D.:	2.75 in

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Company	Extraction Oil and Gas		
Well	Launer 6		
Field	Wattenberg		
County	Weld		
State	CO	**Country**	U.S.A.