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CEMENT BOND LOG

Company	Extraction Oil and Gas
Well	VT-LDS 4-16-18
Field	Wattenberg
County	Weld
State	CO

Company Extraction Oil and Gas
Well VT-LDS 4-16-18
Field Wattenberg
County Weld State CO

API # : 05-123-44420
Location: 1898' FNL & 531' FWL
Lat: 40.401280
Long: -104.656970

SEC: 15 TWP: 5N RGE: 65W

Other Services

Elevation
K.B. 4677'
D.F. -----
G.L. 4648'

Permanent Datum: Ground Level Elevation: 4648'
Log Measured From: KB , 29 ft. above Permanent Datum.
Drilling Measured From: KB

Date	14 Aug 2018
Run Number	One
Plug Back T.D. Driller	-----
Plug Back T.D. Logger	-----
Bottom Logged Interval	7770'
Top Log Interval	Surface
Type Fluid	-----
Density / Viscosity	-----
Max. Recorded Temp.	243°F
Time Logger on Bottom	12:45
Equipment Number	GD 164
Location	Casper, WY
Recorded By	J. Baker
Witnessed By	L. Siegel

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8"	36#	Surface	1500'				
5 1/2"	20#	Surface	20,510'				

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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 # : RM0818PCBW806
Your Crew Today: B. Kennicker, M. Vasquez, D. Hamilton
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	100'
40 % Bond	100'
60 % Bond	194'
80 % Bond	1095'
100 % Bond	-----

Comments

Estimated cement top at 100'
(20% Bond)

Marker Joint located at 7319'

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\2018_08_14_extraction_vt_lds_4_16_18_cbl\2018_08_14_extraction_vt_lc
Dataset field/well/run1/pass3/_vars_

Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in
TEMP	8.5	243	5.5	0.361	20	71.9	4.923

MINAMPL mV	MinAPIID in	MINATTN db/ft	PPT usec	TDEPTH ft
1.9	4.751	0	237	0

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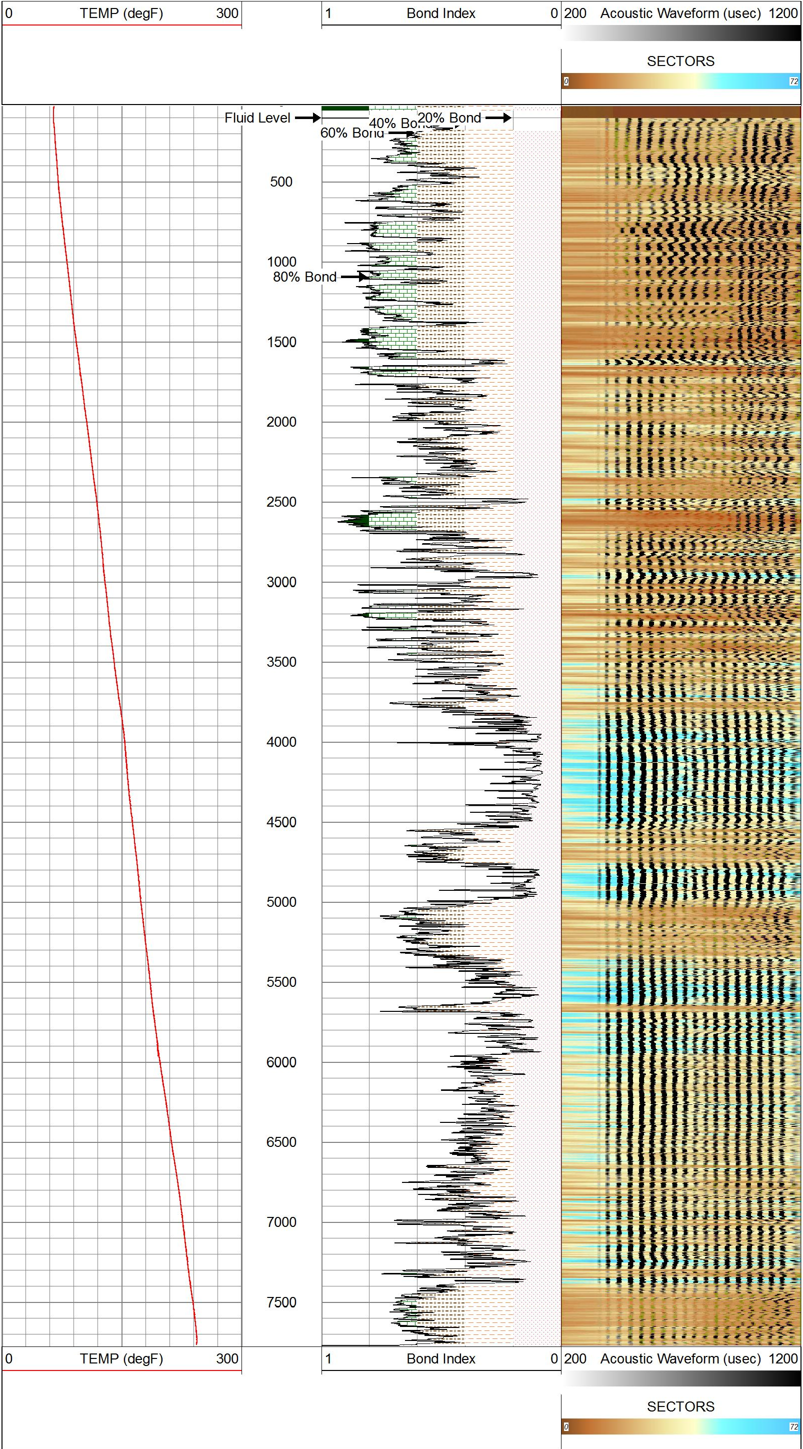
BOND INDEX

Database File	2018_08_14_extraction_vt_lds_4_16_18_cbl\2018_08_14_extraction_vt_lds_4_16_18_cbl.db
Dataset Pathname	bond
Presentation Format	bndindx_msg-sec
Dataset Creation	Tue Aug 14 14:47:29 2018
Charted by	Depth in Feet scaled 1:7500



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BOND INDEX

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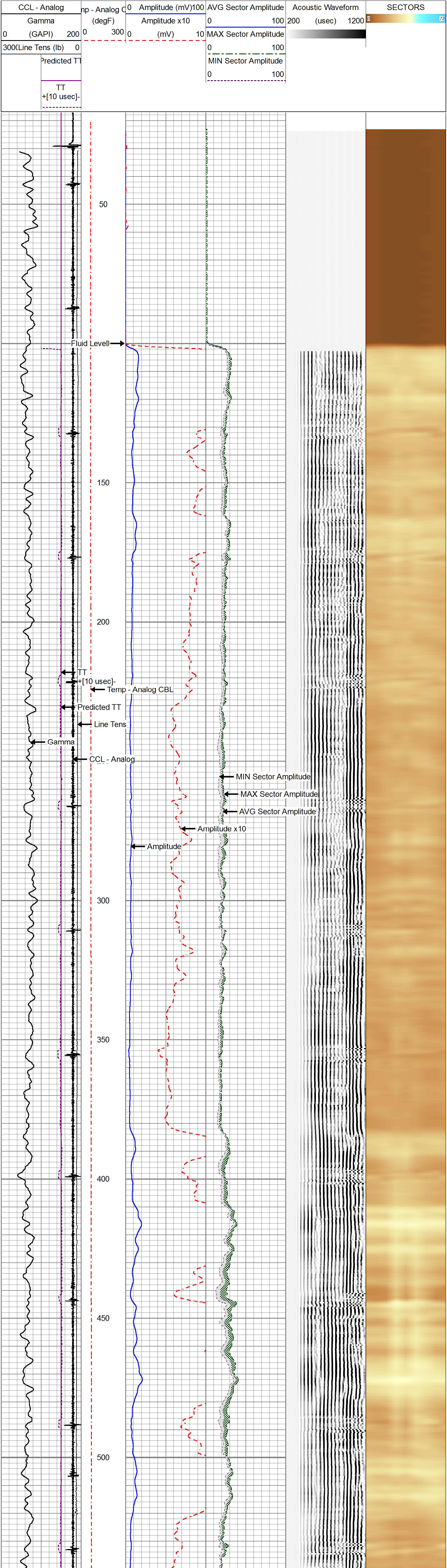
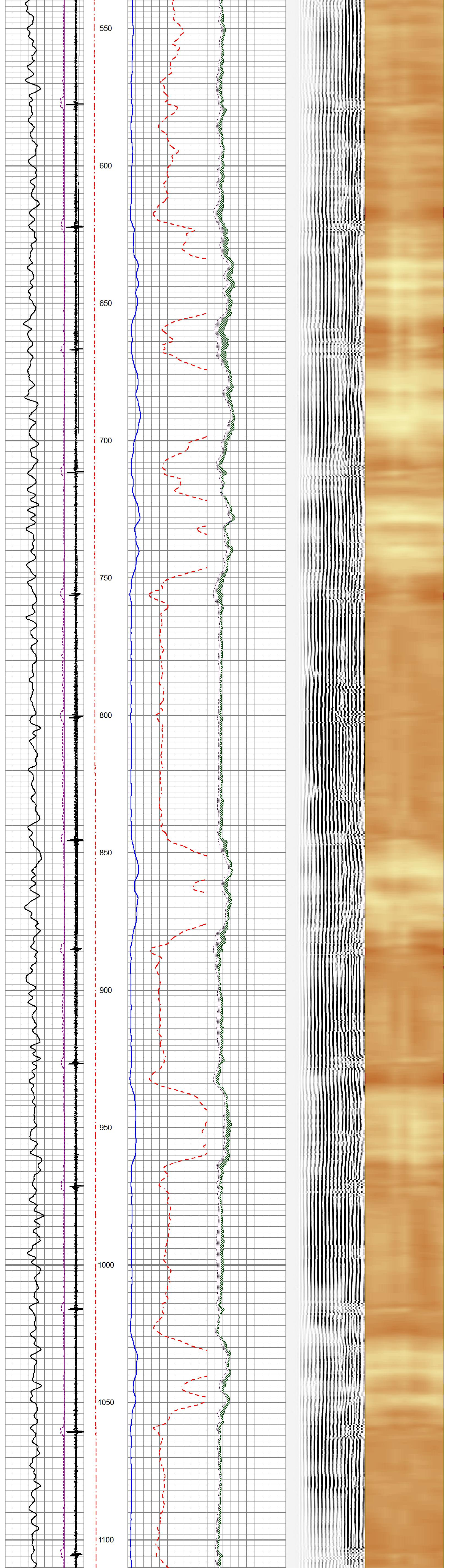
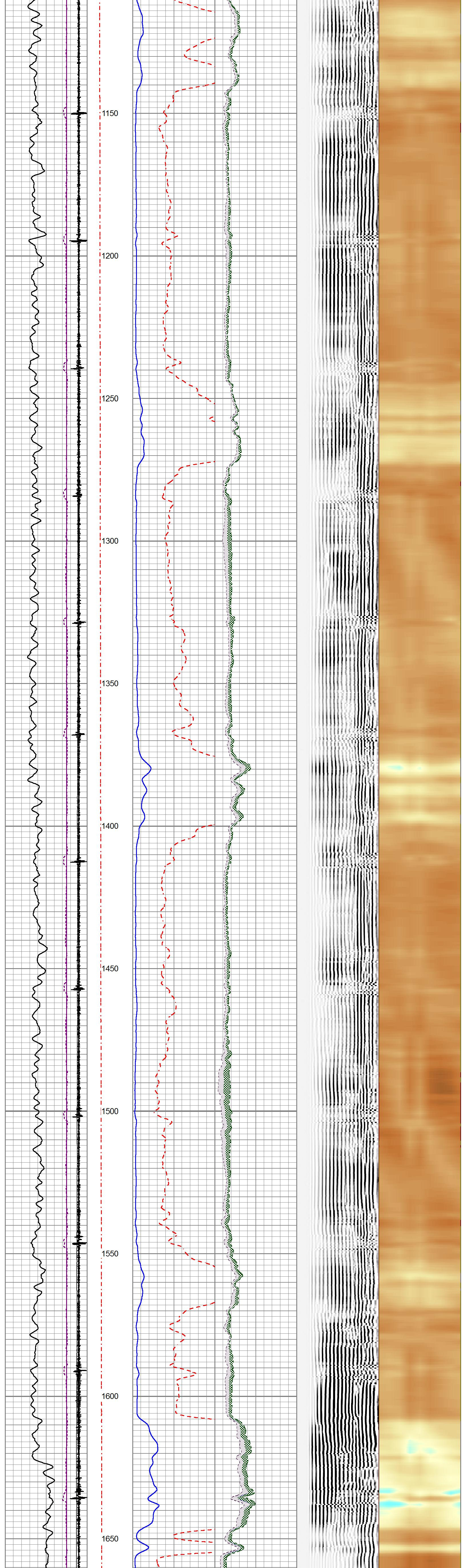
MAIN PASS - Ran with 0 PSI

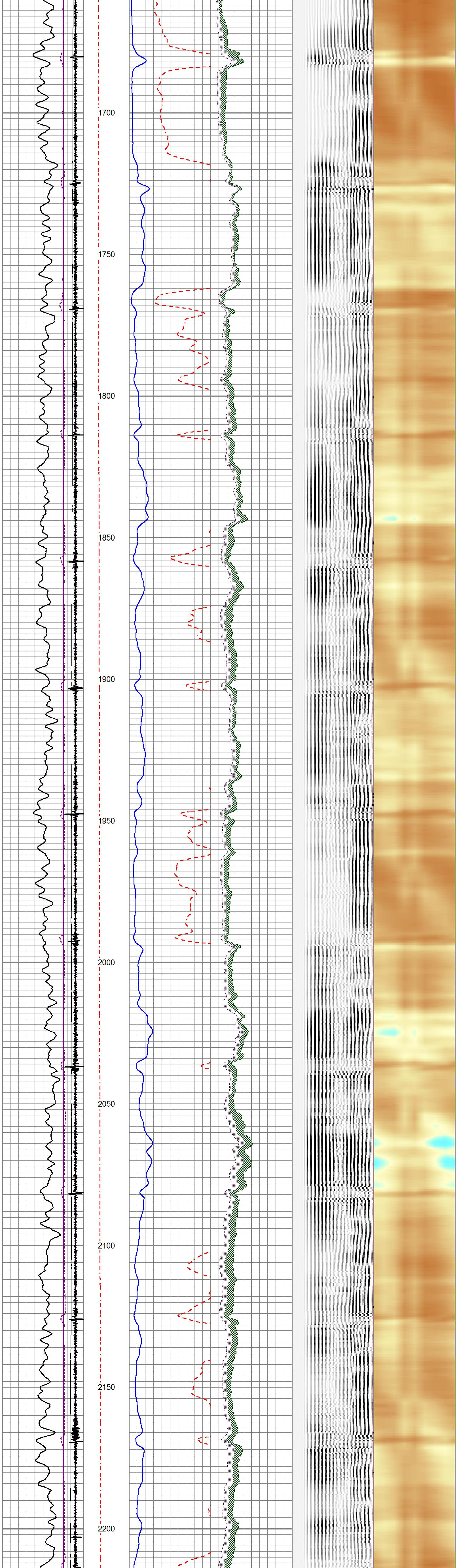
5 in / 100 ft

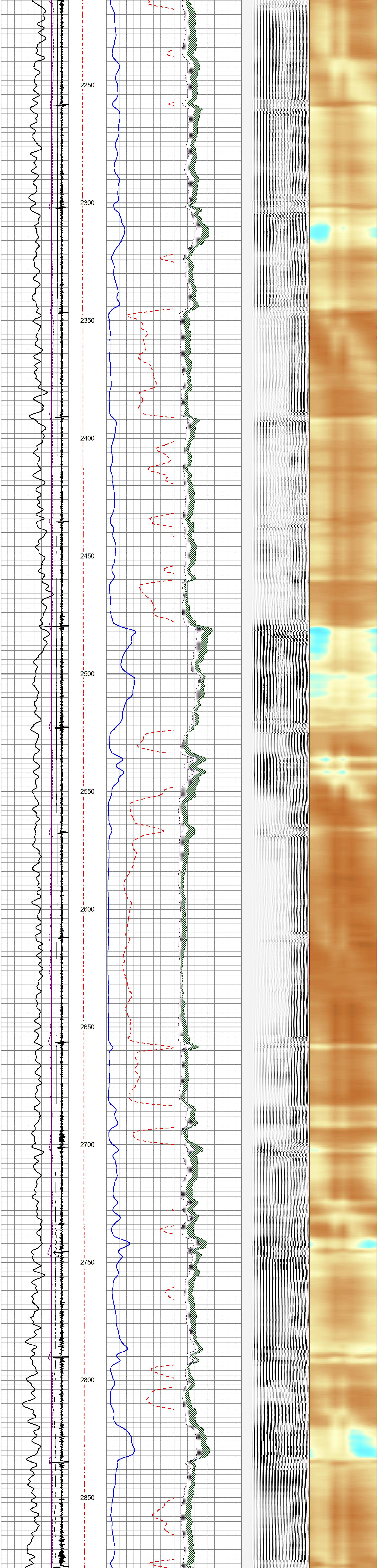
Database File	2018_08_14_extraction_vt_lds_4_16_18_cbl\2018_08_14_extraction_vt_lds_4_16_18_cbl.db
Dataset Pathname	pass3
Presentation Format	rcbl_8s
Dataset Creation	Tue Aug 14 12:48:02 2018
Charted by	Depth in Feet scaled 1:240

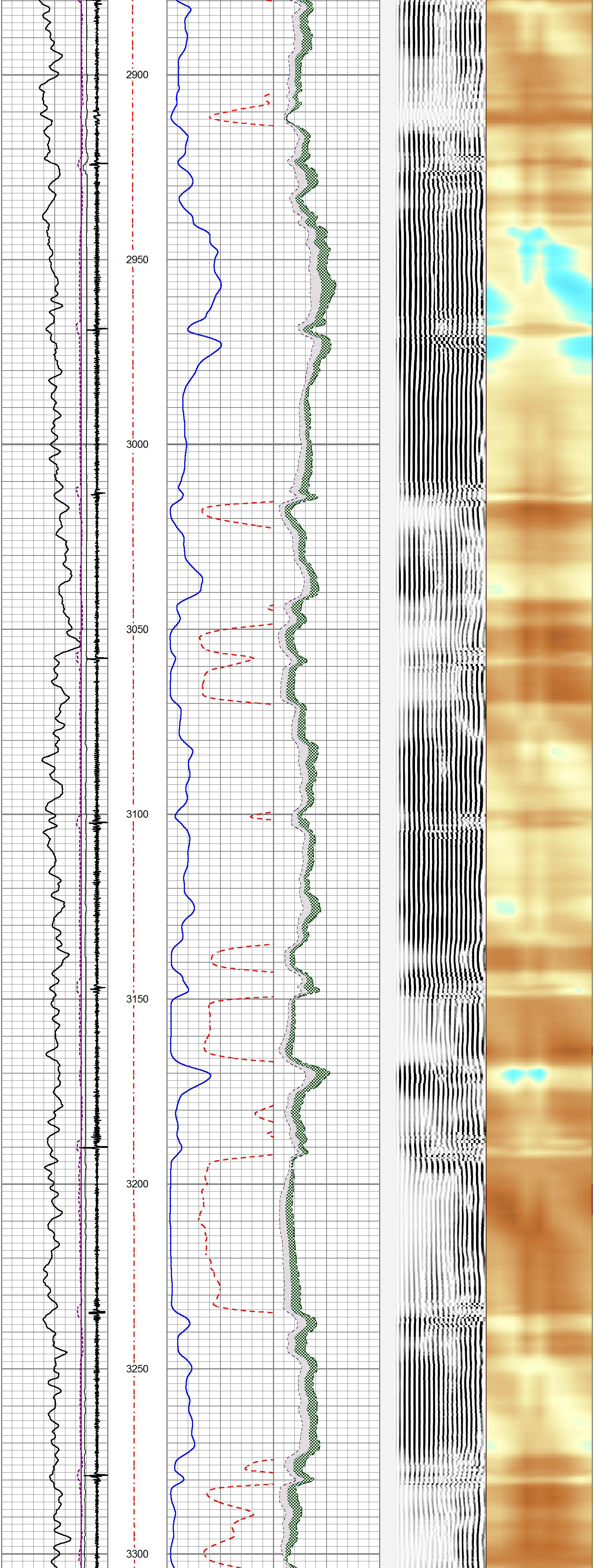


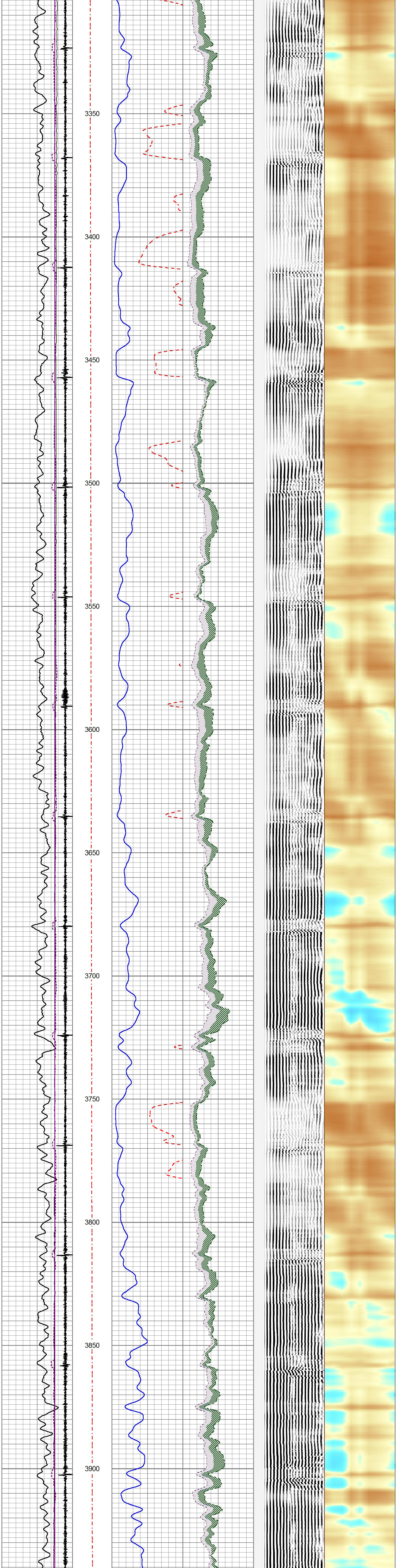








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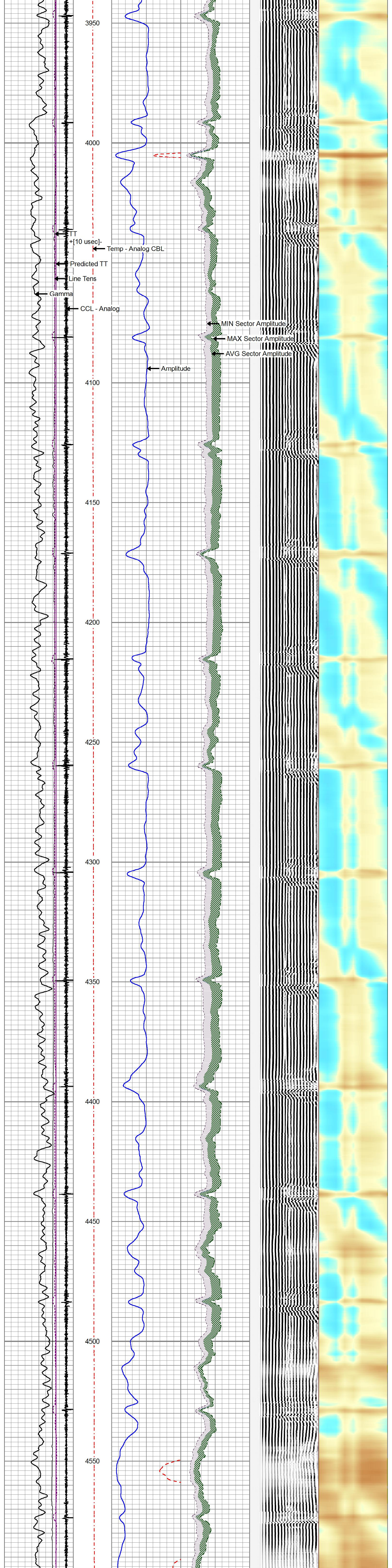
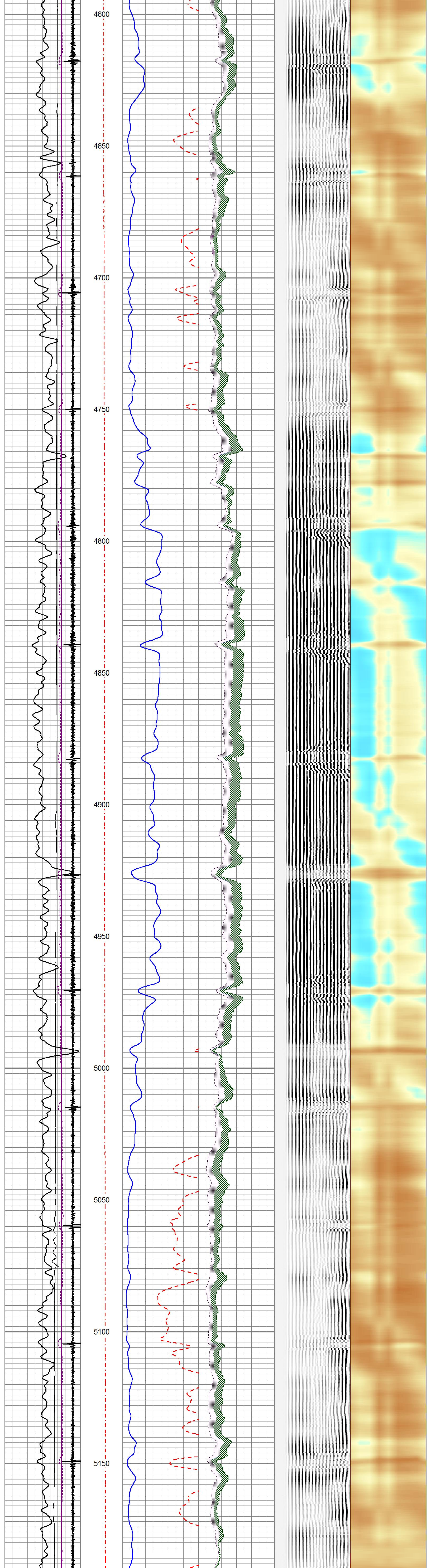
3650
3700
3750
3800
3850
3900


3950
4000
TT
+[10 usec]-
Temp - Analog CBL
Predicted TT
Line Tens
Gamma
CCL - Analog
MIN Sector Amplitude
MAX Sector Amplitude
AVG Sector Amplitude
Amplitude
4100
4150
4200
4250
4300
4350
4400
4450
4500
4550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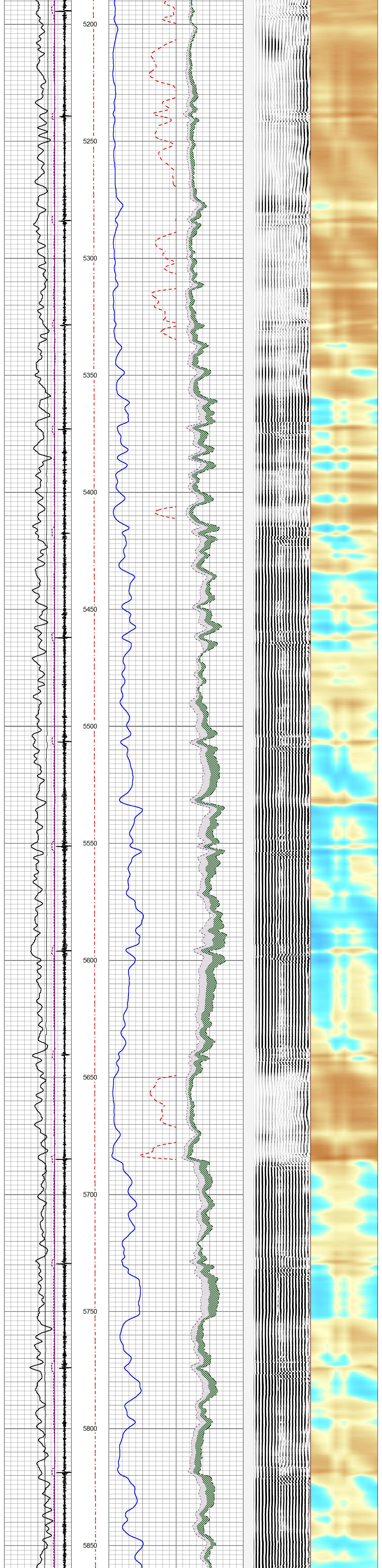
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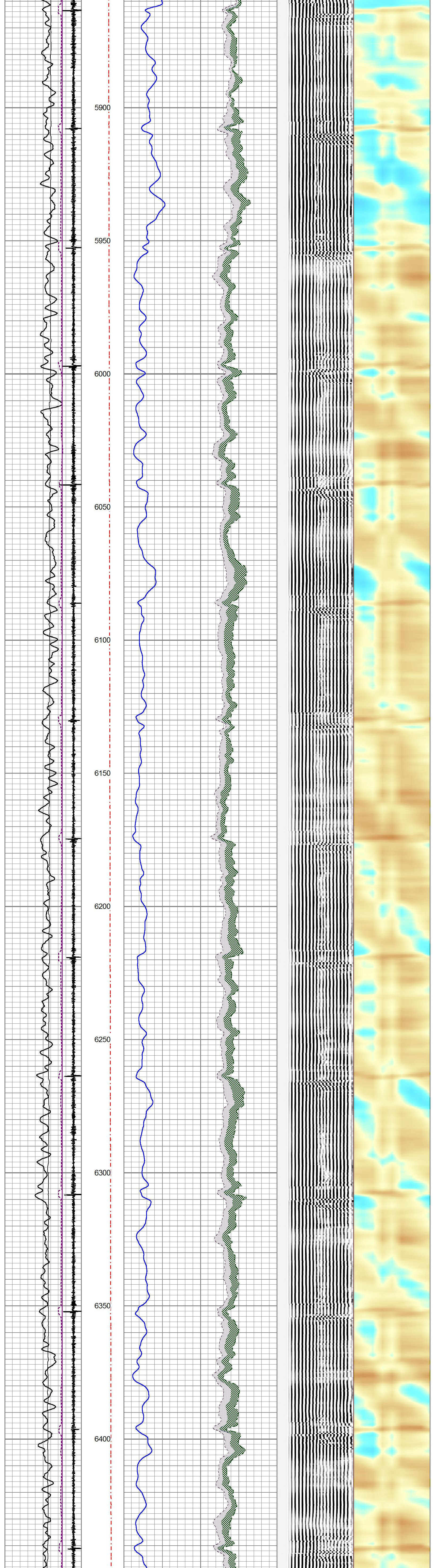
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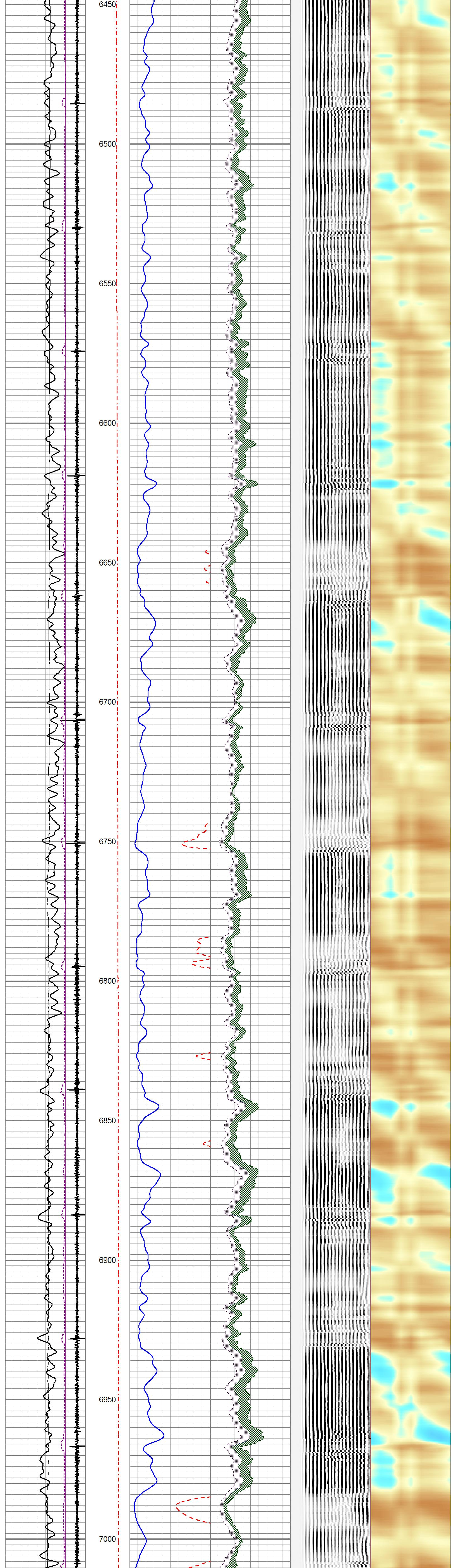
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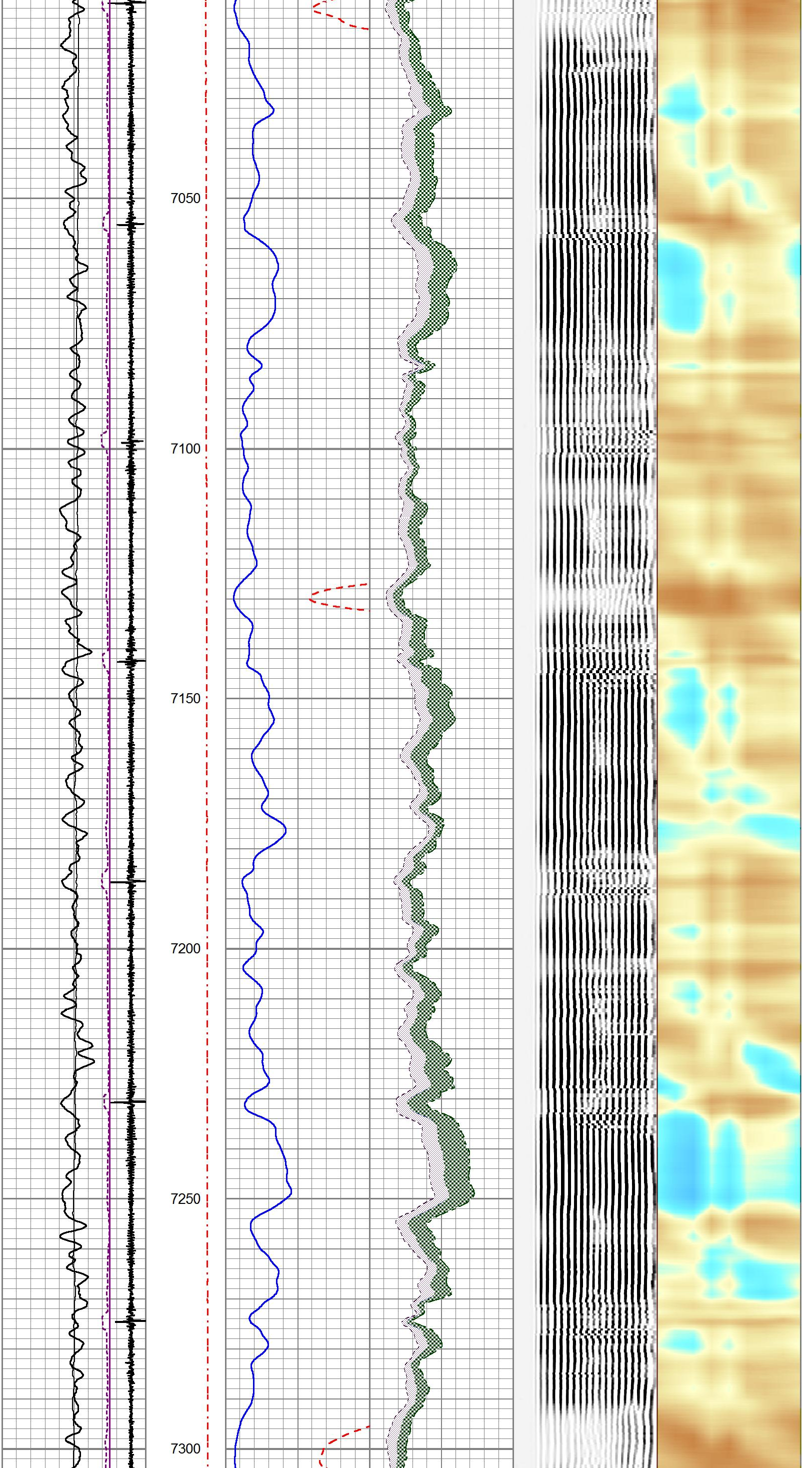
7000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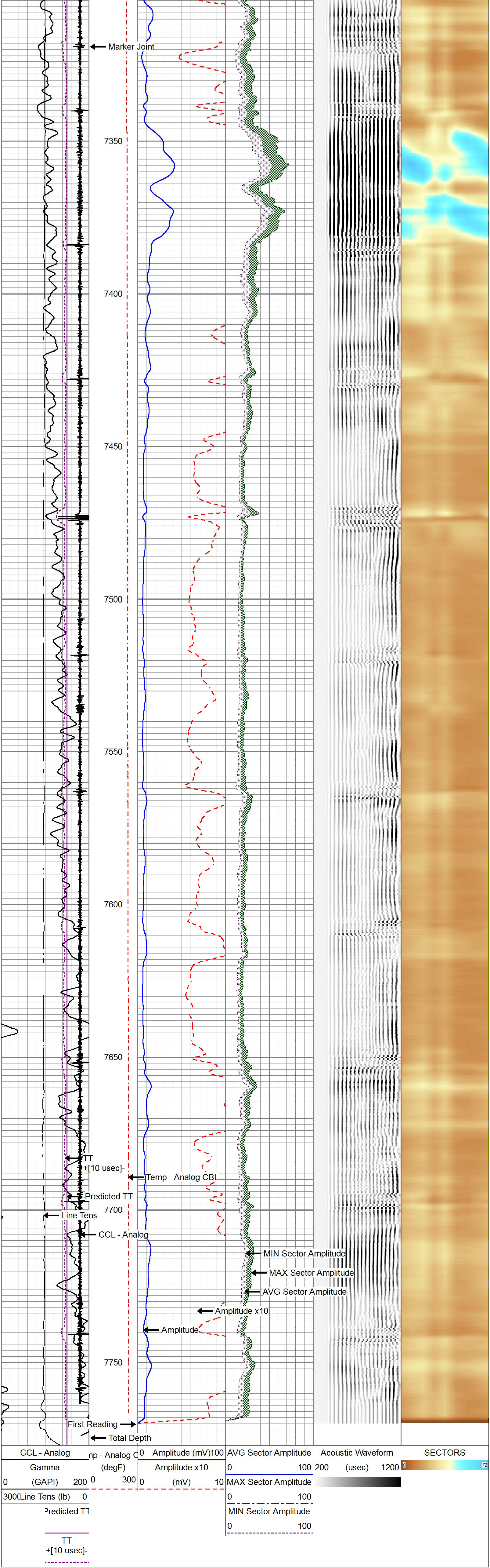
7300



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MAIN PASS - Ran with 0 PSI

5 in / 100 ft

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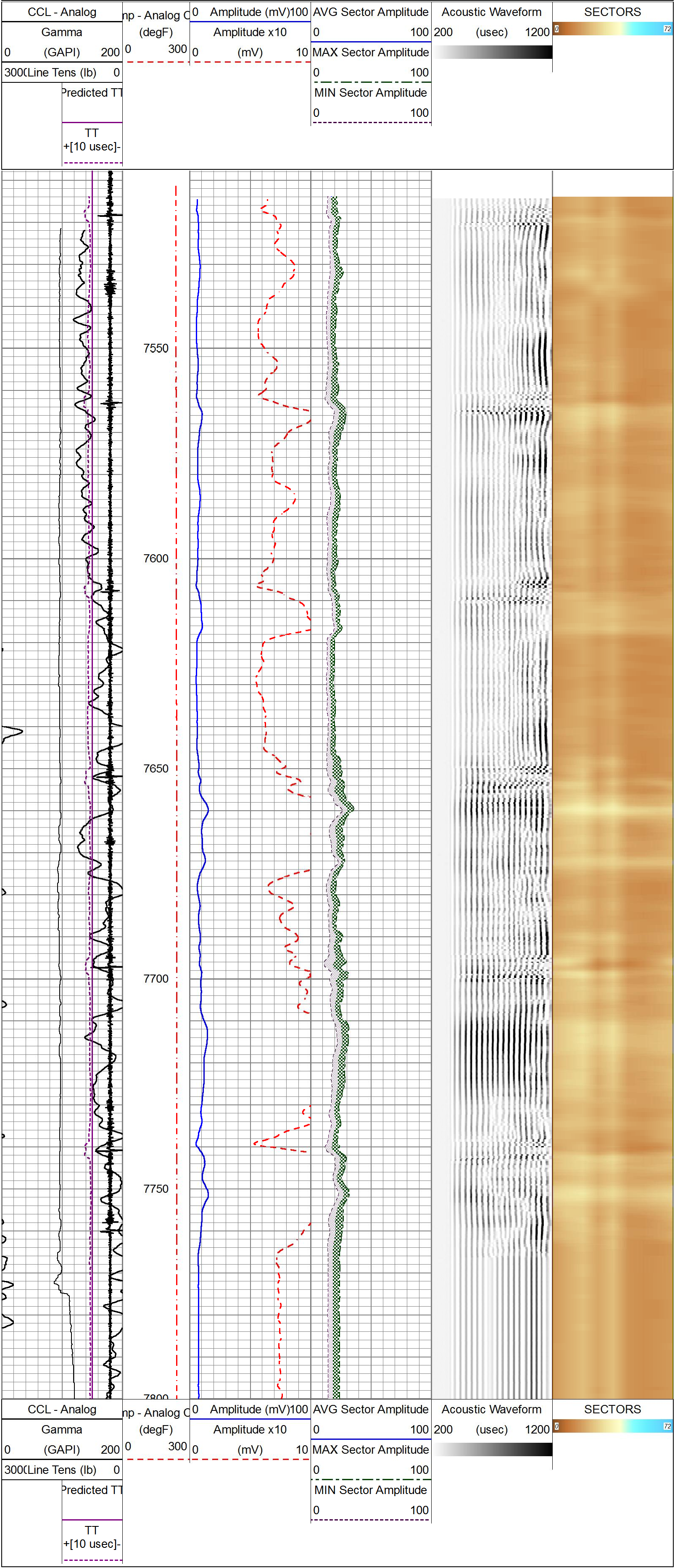
REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	2018_08_14_extraction_vt_lds_4_16_18_cbl\2018_08_14_extraction_vt_lds_4_16_18_cbl.db
Dataset Pathname	pass2
Presentation Format	rcbl_8s
Dataset Creation	Tue Aug 14 12:43:00 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	d:\warrior\data\2018_08_14_extraction_vt_lds_4_16_18_cbl\2018_08_14_extraction_vt_lds_4_16_18_cbl.db
Dataset Pathname	pass3
Dataset Creation	Tue Aug 14 12:48:02 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:	IPPO2-01	
Tool Model:	2 3/4" RIB Analog	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	344.560	ft

Master Calibration, performed Sun Aug 12 11:27:33 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	0.908	0.000	71.921	79.912	-0.602
CAL	-0.000	0.503				
5'	0.010	1.188	0.000	71.921	61.037	-0.594
SUM						
S1	0.017	0.905	0.000	72.000	81.059	-1.357
S2	0.015	0.925	0.000	72.000	79.154	-1.187
S3	0.015	0.967	0.000	72.000	75.580	-1.104
S4	0.017	0.992	0.000	72.000	73.893	-1.279
S5	0.015	1.005	0.000	72.000	72.755	-1.102
S6	0.017	0.944	0.000	72.000	77.701	-1.346
S7	0.018	0.873	0.000	72.000	84.266	-1.525
S8	0.018	0.844	0.000	72.000	87.115	-1.550

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

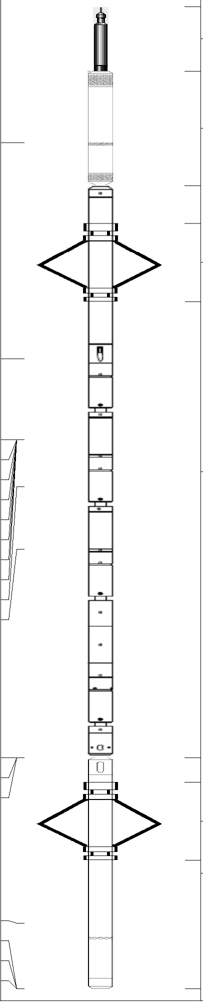
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.000	0.503	1.000	0.000

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_Log-2 3/4" TekCo (IPSN7-03)	1.83	2.75	33.00
CCL	13.50					
			Antelope-Overbody	1.25	2.75	
TEMP	10.05					
WVFS8	8.76					
WVFS7	8.76					
			RBTA-2 3/4" RIB Analog (IPPO2-01)	9.13	2.75	102.00
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					
			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					
PMON	0.00					

Dataset:	2018_08_14_extraction_vt_lds_4_16_18_cbl.db: field/well/run1/pass3
Total length:	15.67 ft
Total weight:	185.60 lb
O.D.:	2.75 in

gyrodata

Company	Extraction Oil and Gas		
Well	VT-LDS 4-16-18		
Field	Wattenberg		
County	Weld		
State	CO	**Country**	U.S.A.