CEMENT BOND LOG

gyrodata

Company	Extraction Oil and Gas
Well	Interchange B N35-20-8C
Field	Wattenberg
County	Broomfield
State	CO

Company Extraction Oil and Gas

Well Interchange B N35-20-8C

Field Wattenberg

County Broomfield **State** CO

API # : 05-014-20776

Location: 2505' FSL & 1672' FWL
Lat: 39.978999
Long: -104.991218

SEC: 10 TWP: 1S RGE: 68W

Other Services

Elevation
K.B. 5232'
D.F. -----
G.L. 5213'

Permanent Datum: Ground Level Elevation: 5213'
Log Measured From: Kelly Bushing , 29 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	15 Jun 2019		
Run Number	One		
Plug Back T.D. Driller	-----		
Plug Back T.D. Logger	-----		
Bottom Logged Interval	9162'		
Top Log Interval	Surface		
Type Fluid	-----		
Density / Viscosity	-----		
Max. Recorded Temp.	235°F		
Time Logger on Bottom	07:30		
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	18,978'				

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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 # : RM0619PCBW442
Your Crew Today: Z. Fabre, T. Lev
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	540'
40 % Bond	1270'
60 % Bond	1539'
80 % Bond	2234'
100 % Bond	4208'

Comments

Estimated Cement top at (20% Bond) 540'

Marker Joint located at 8292'

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\2019_06_15_extraction_interchange_b_n35_20_8c_cbl\2019_06_15_extra
Dataset field/well/run1/MAIN PASS/_vars_

Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in
TEMP	8.5	238	5.5	0.361	20	71.9	4.923

MINAMPL mV	MinAPIID in	MINATTN db/ft	PPT usec	TDEPTH ft
2.1	4.751	0	237	0

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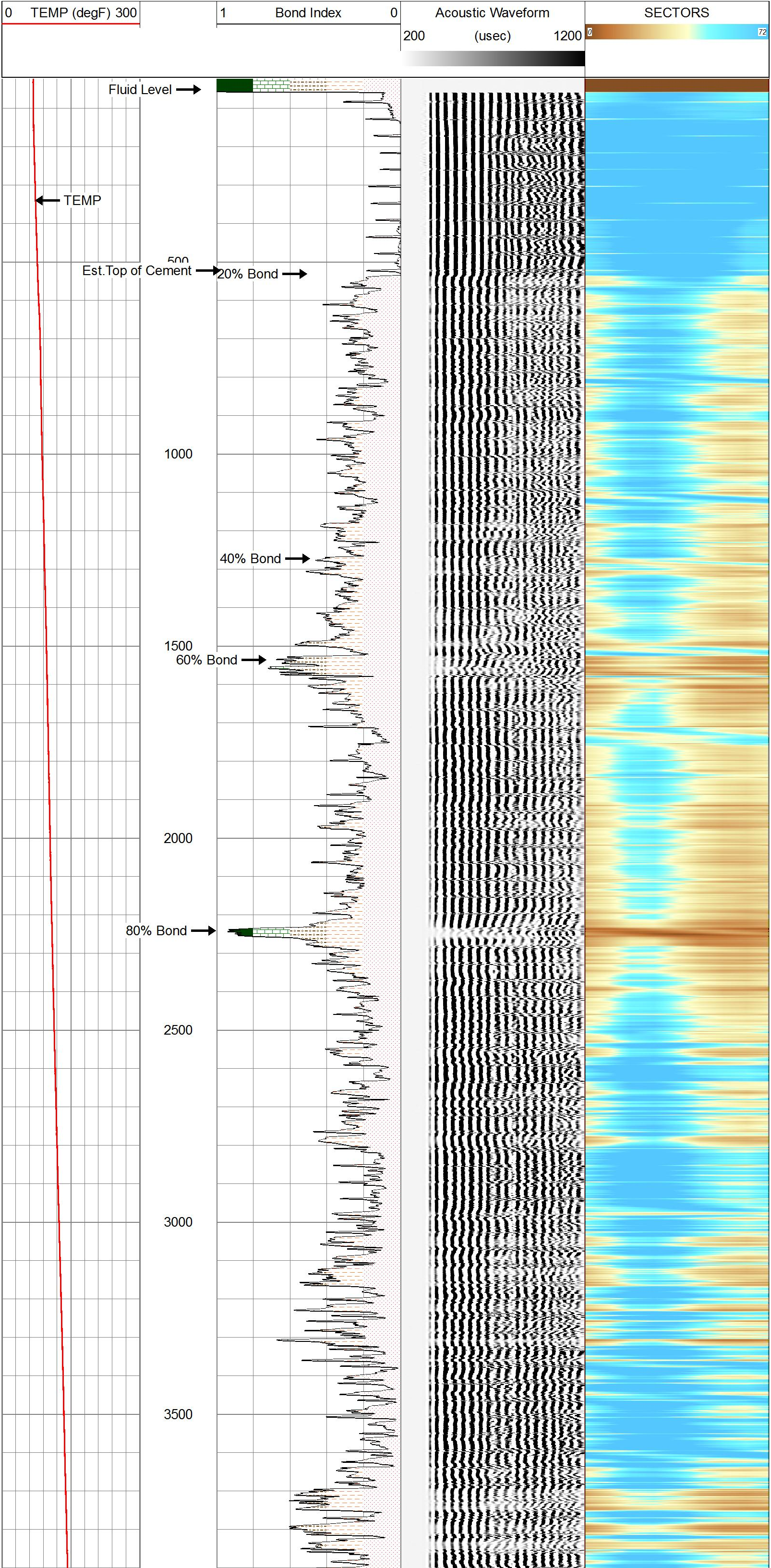
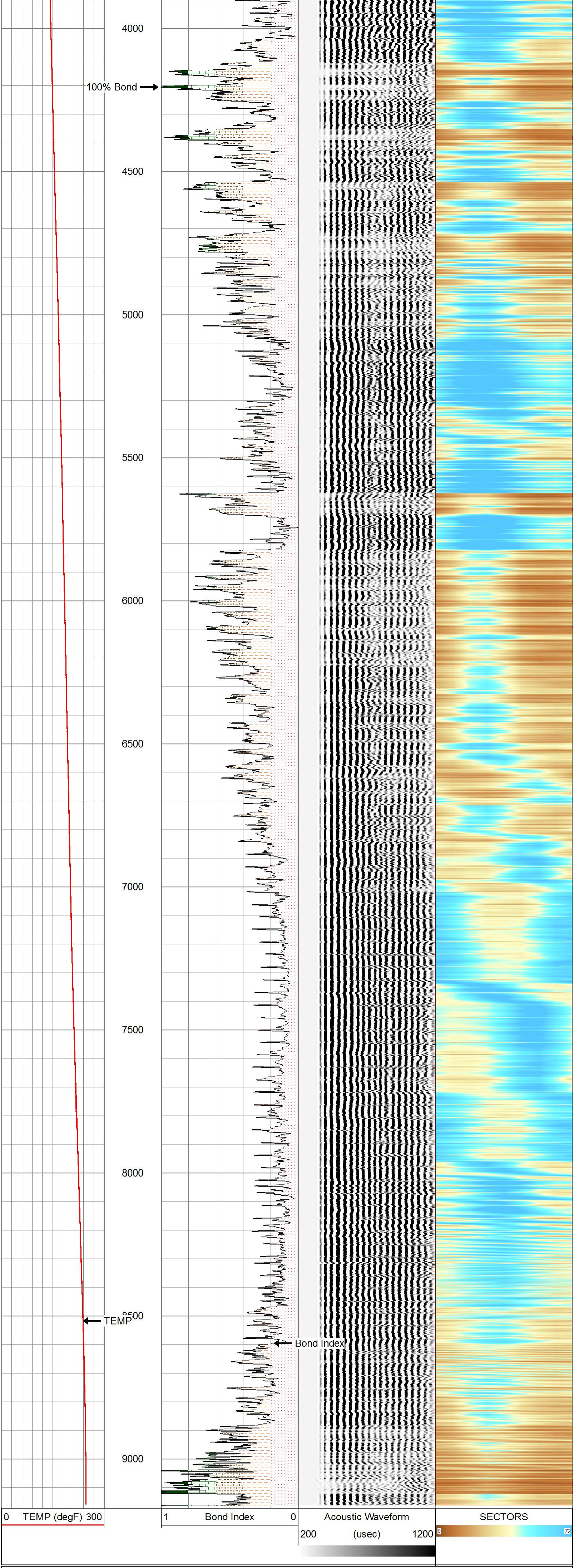
BOND INDEX

Database File	2019_06_15_extraction_interchange_b_n35_20_8c_cbl\2019_06_15_extraction_interchange_b_n35_20_8
Dataset Pathname	BOND
Presentation Format	bndindx_msg-sec
Dataset Creation	Sat Jun 15 10:58:24 2019
Charted by	Depth in Feet scaled 1:3000





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BOND INDEX

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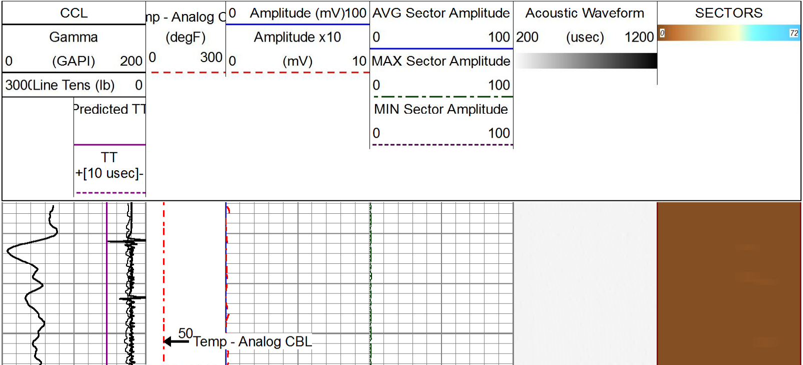
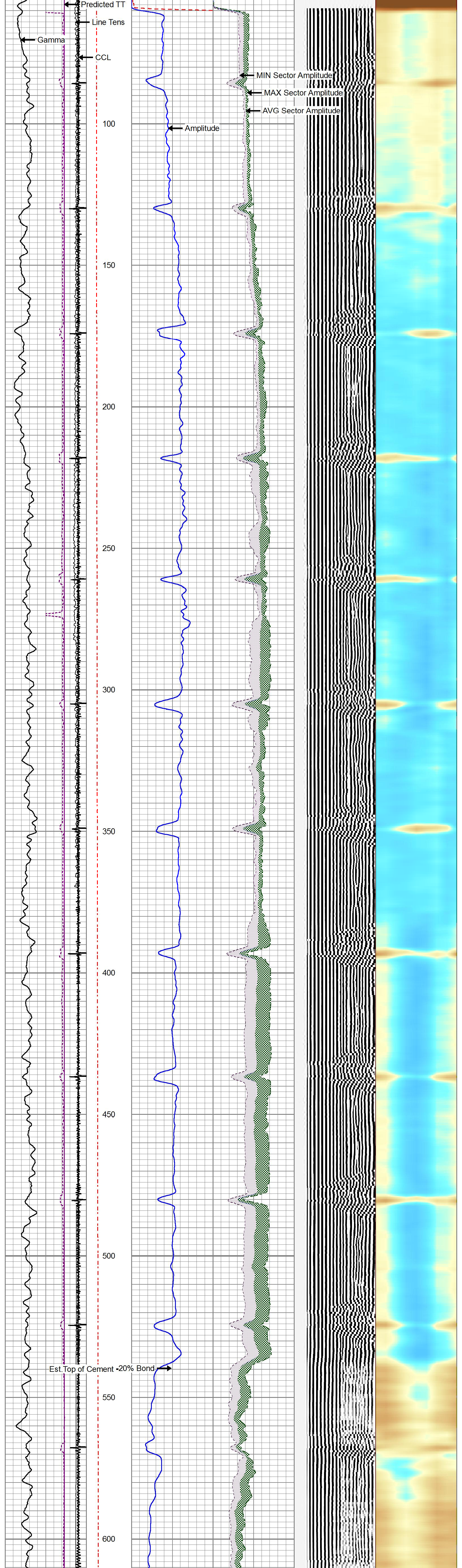
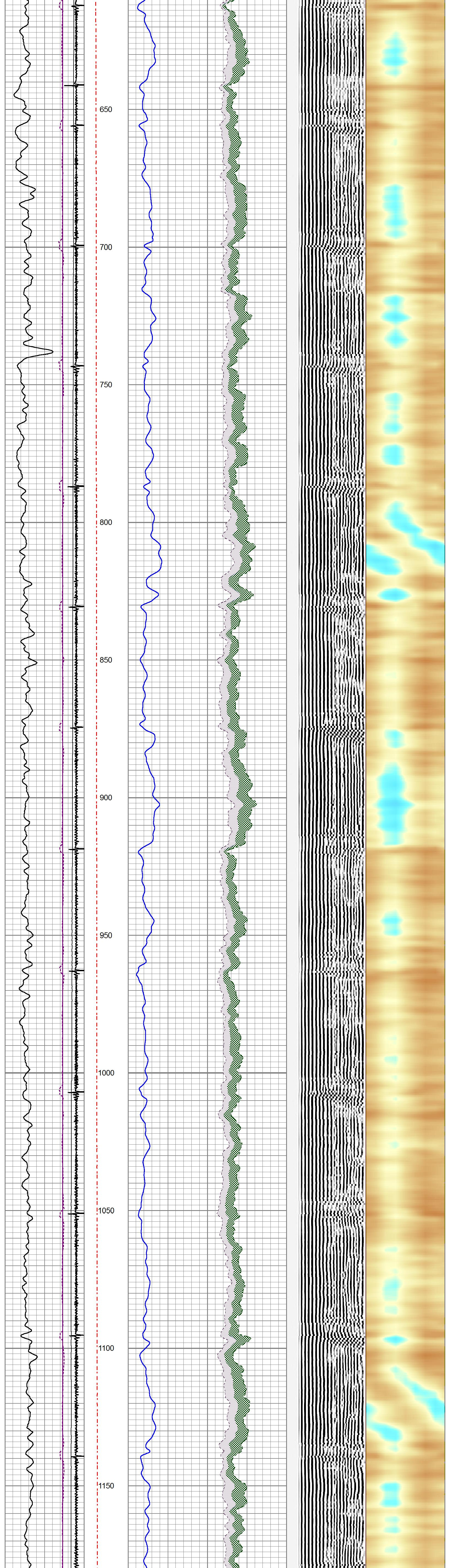
MAIN PASS - Ran with 0 PSI

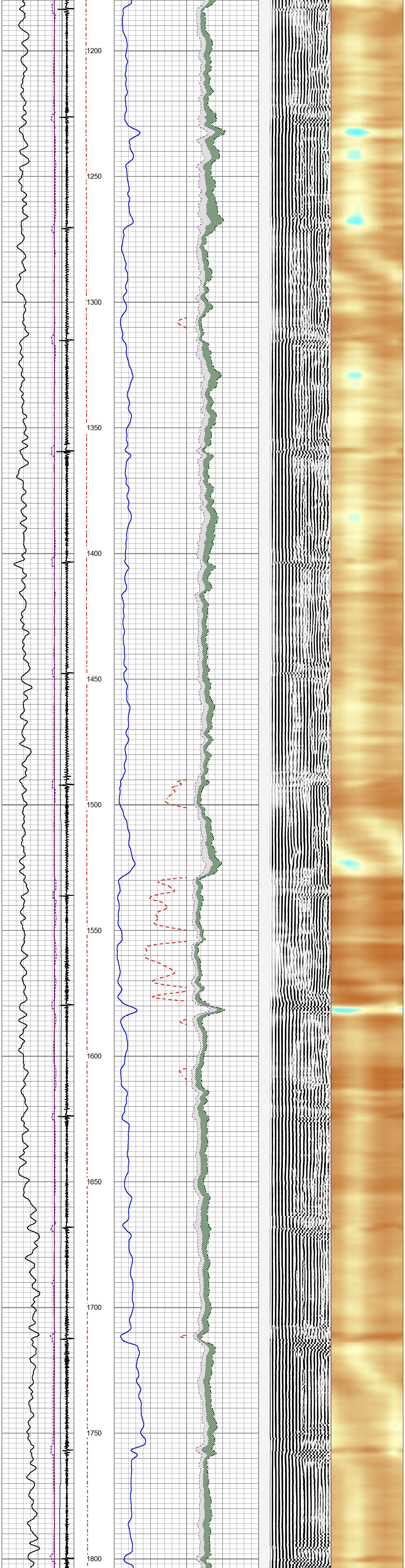
5 in / 100 ft

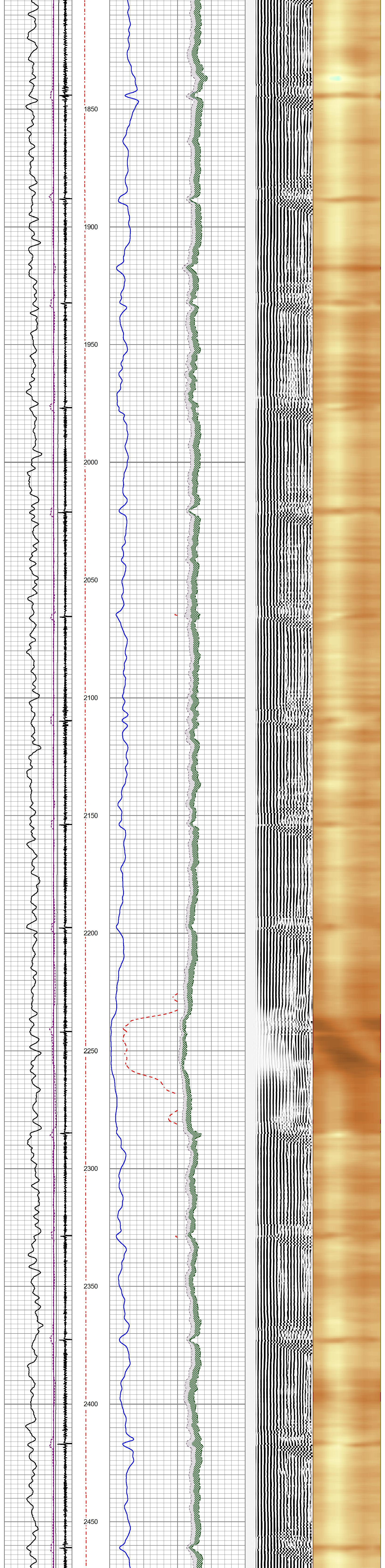
Database File	2019_06_15_extraction_interchange_b_n35_20_8c_cbl\2019_06_15_extraction_interchange_b_n35_20_8
Dataset Pathname	MAIN PASS
Presentation Format	rcbl_8s
Dataset Creation	Sat Jun 15 10:48:59 2019
Charted by	Depth in Feet scaled 1:240

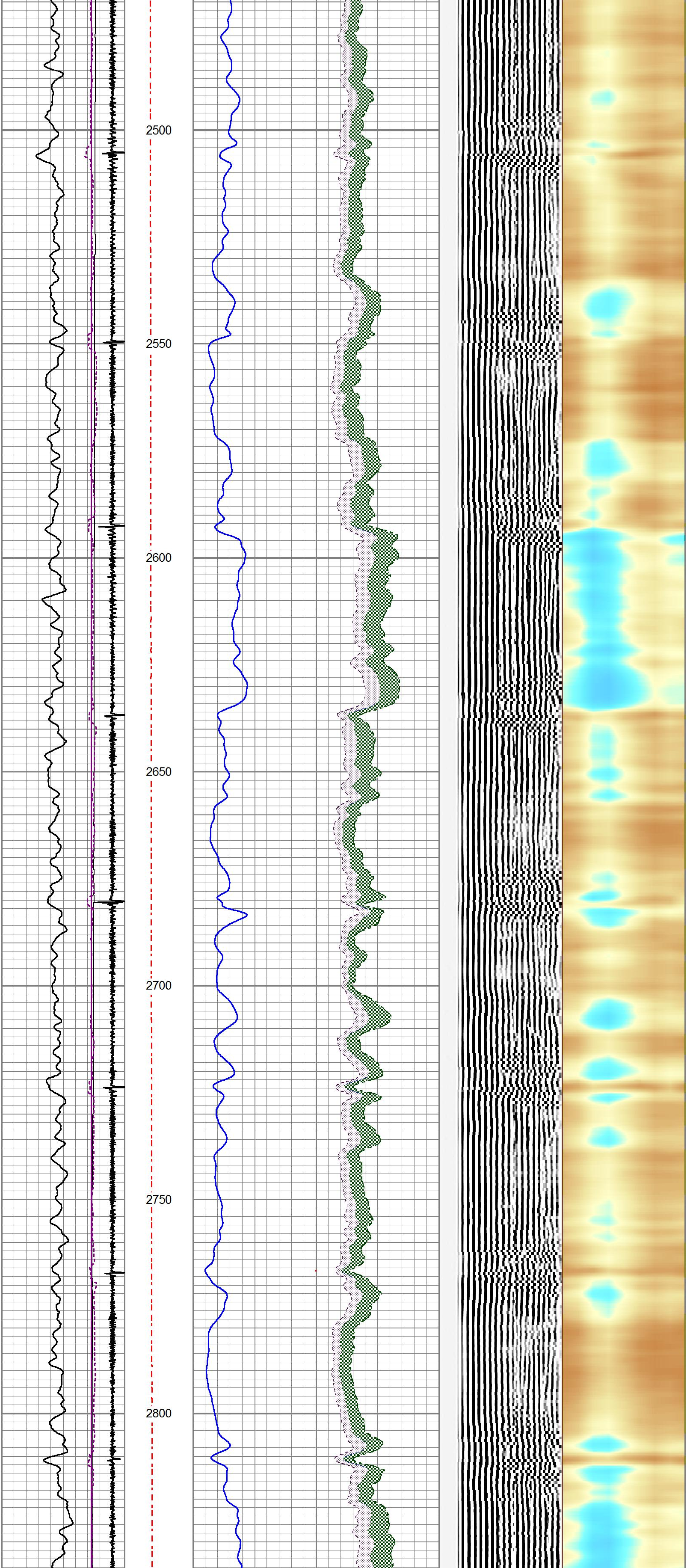


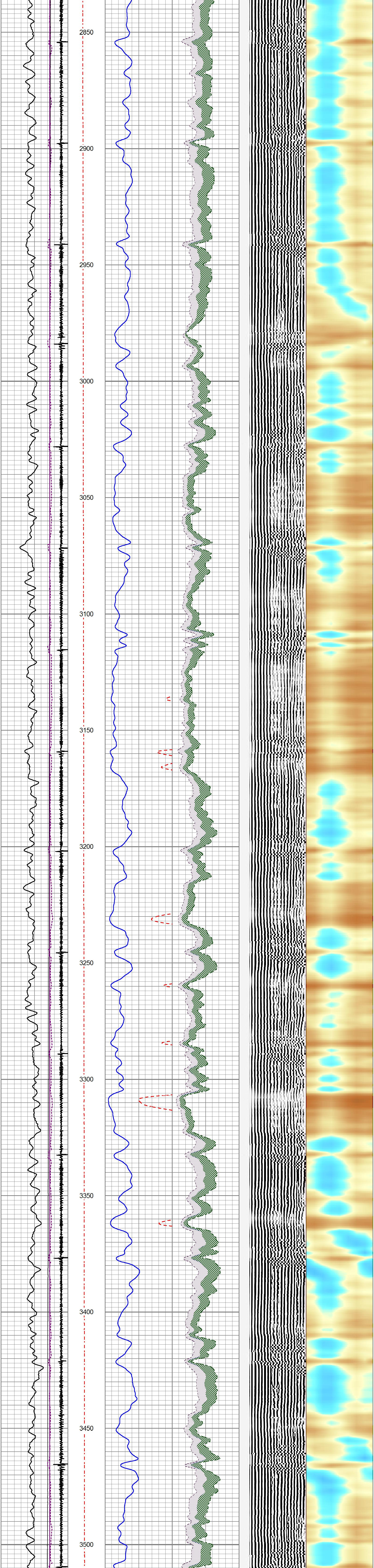








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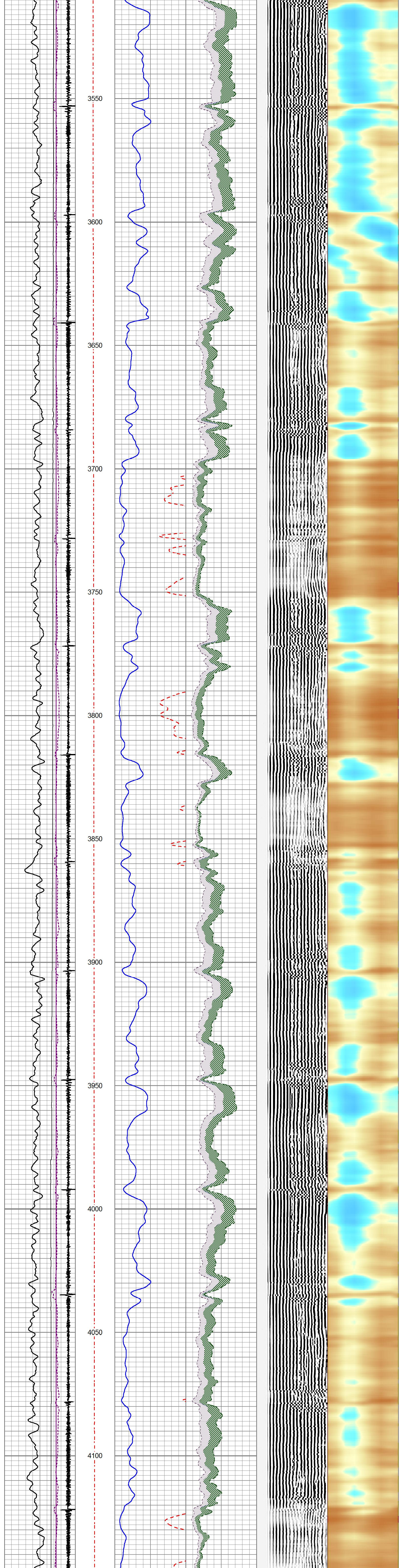
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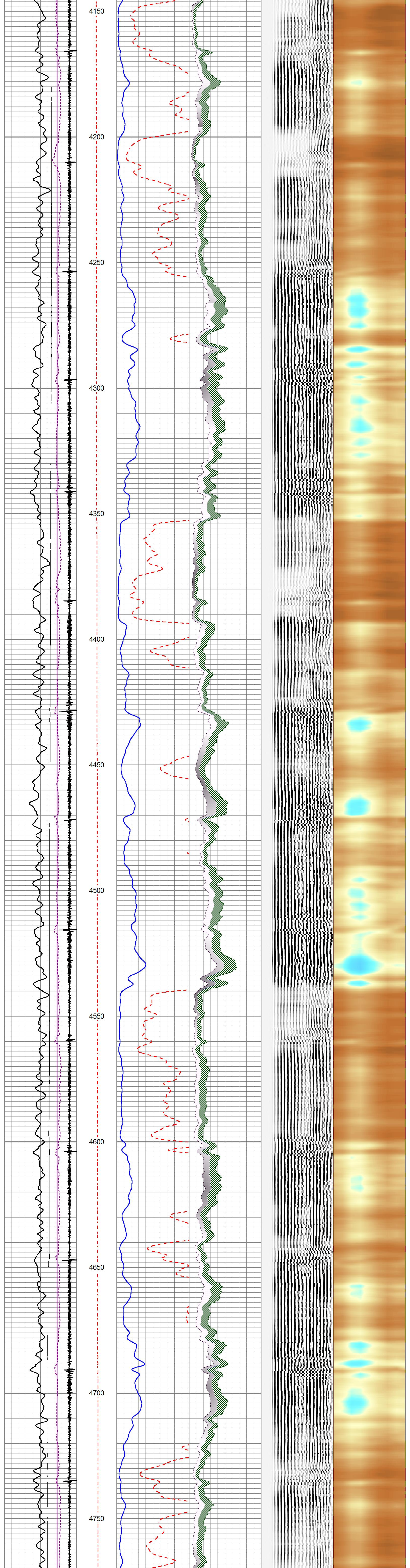
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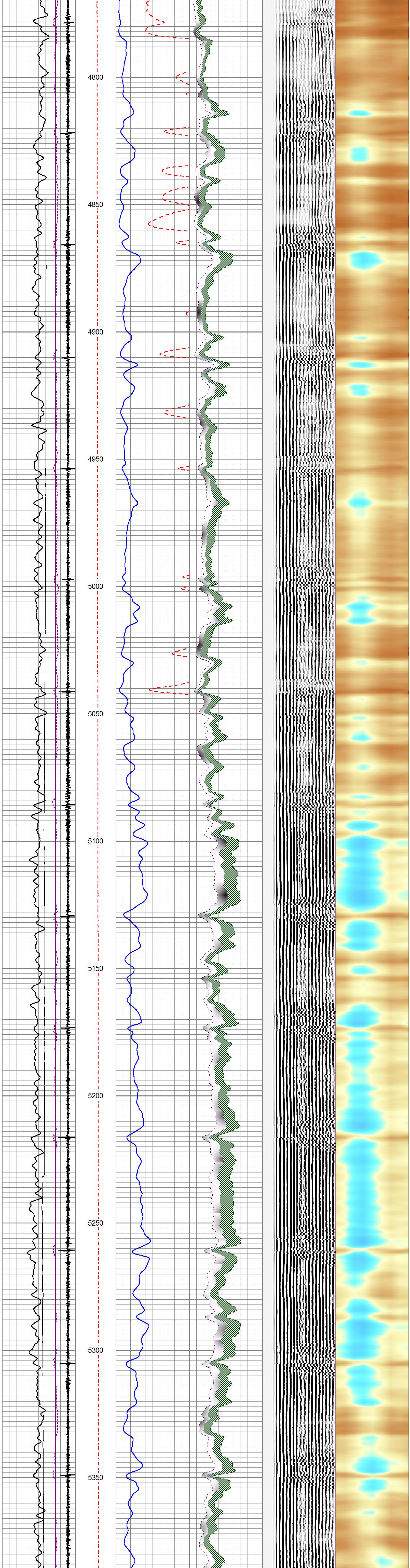
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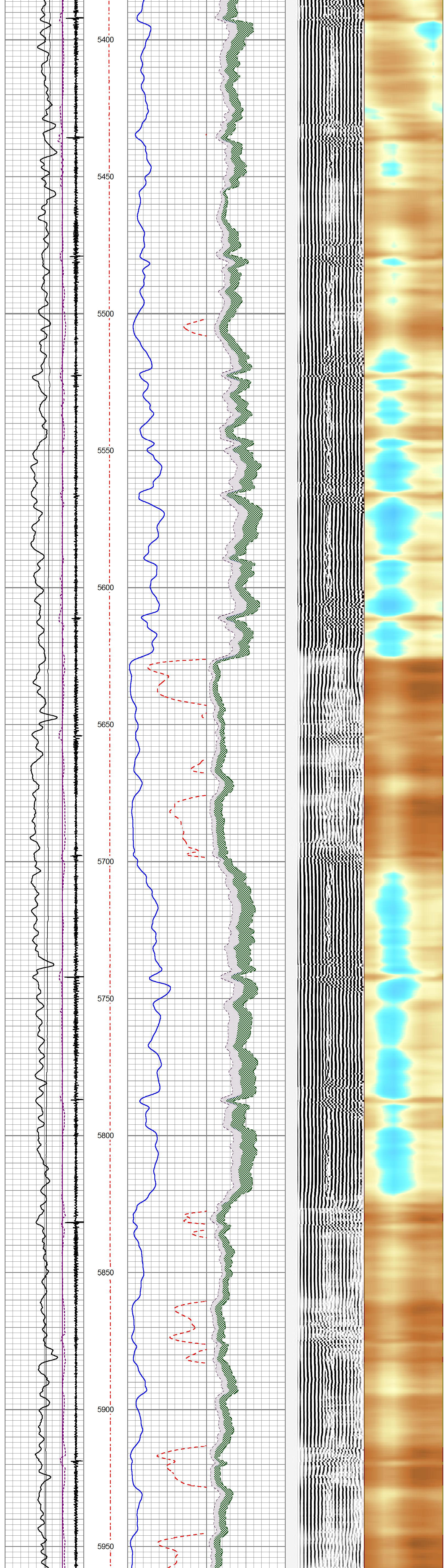
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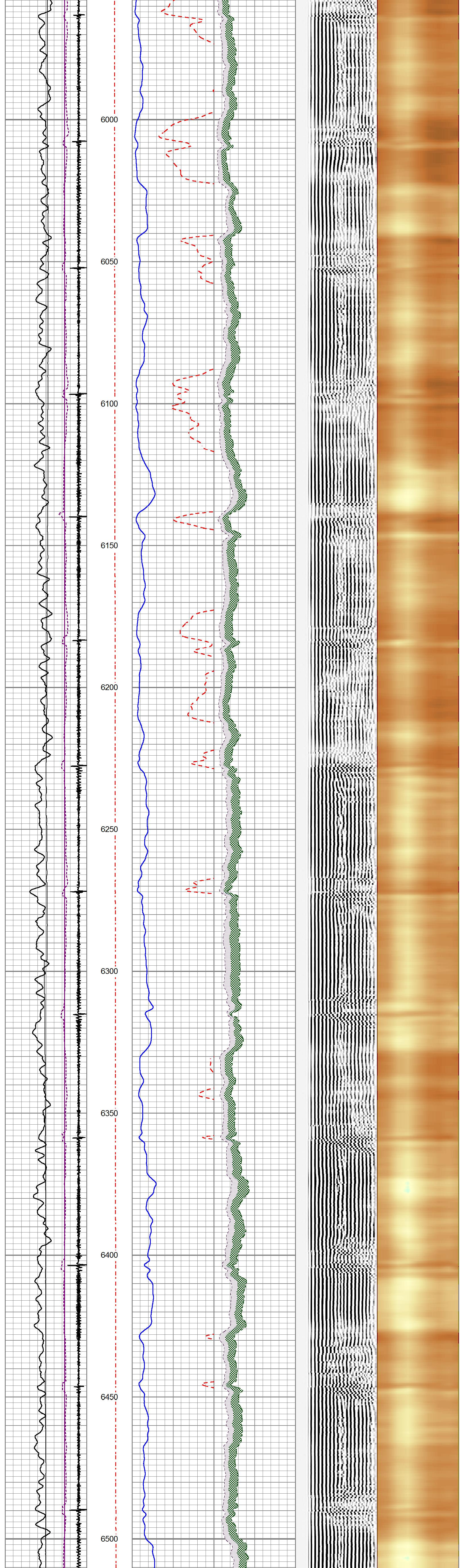
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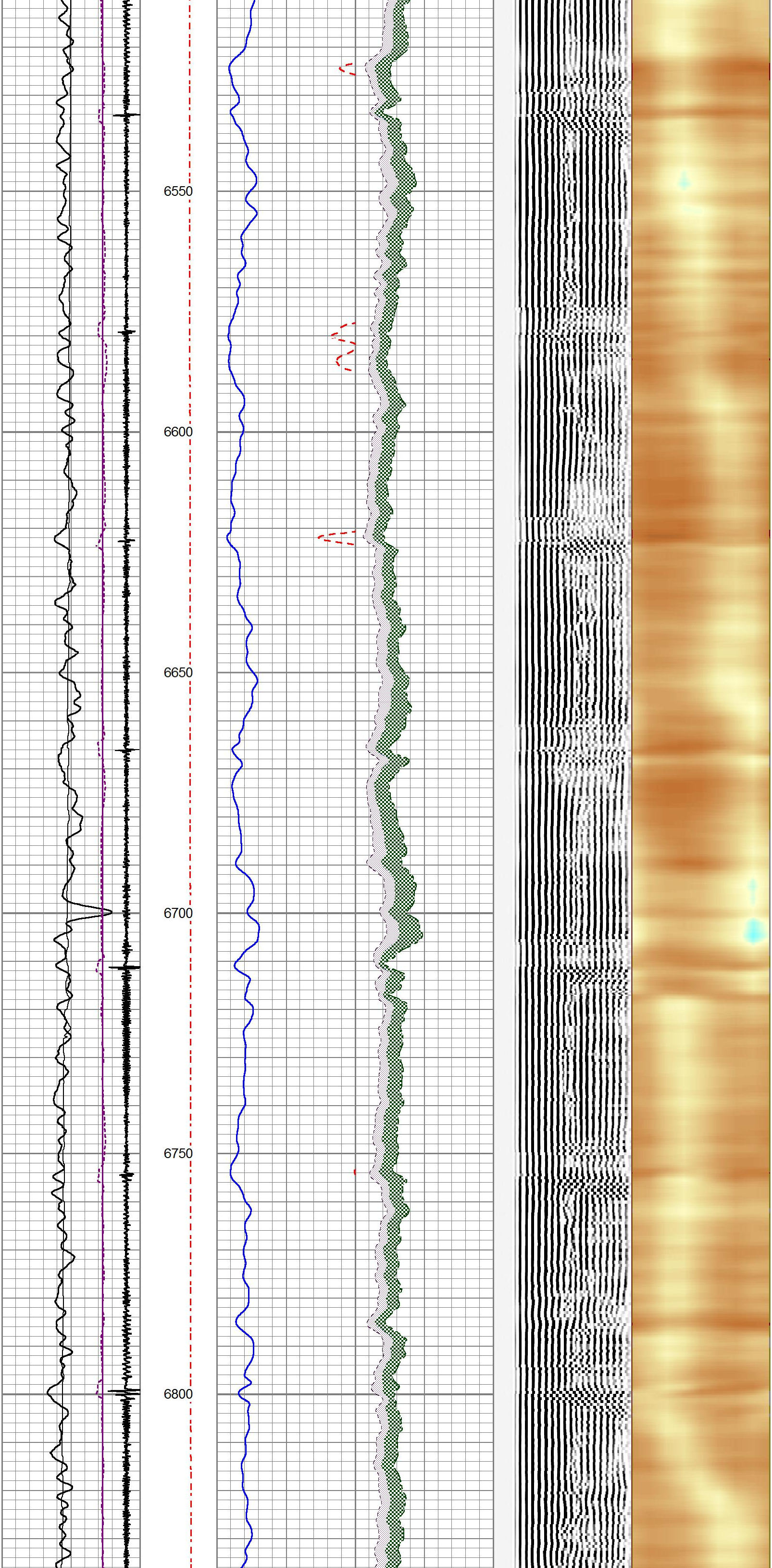
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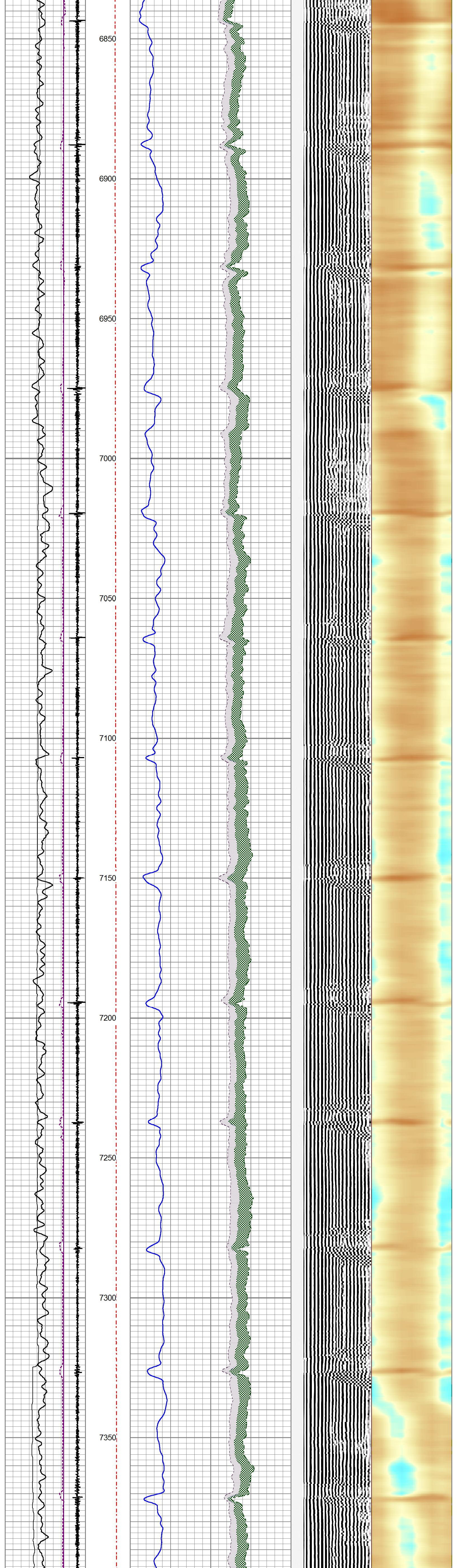
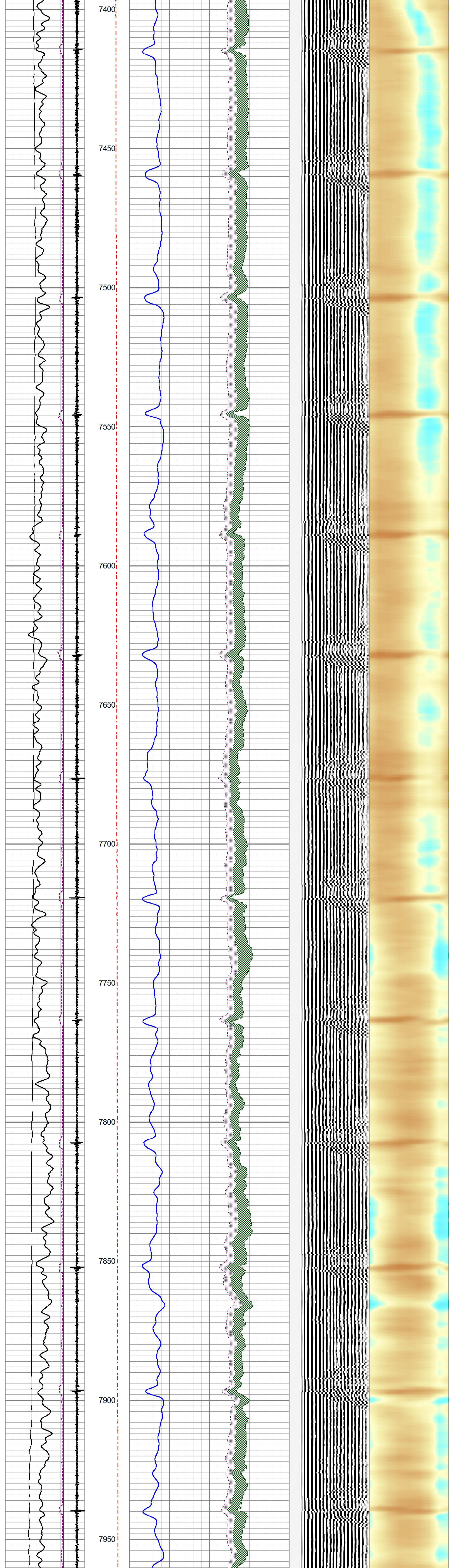
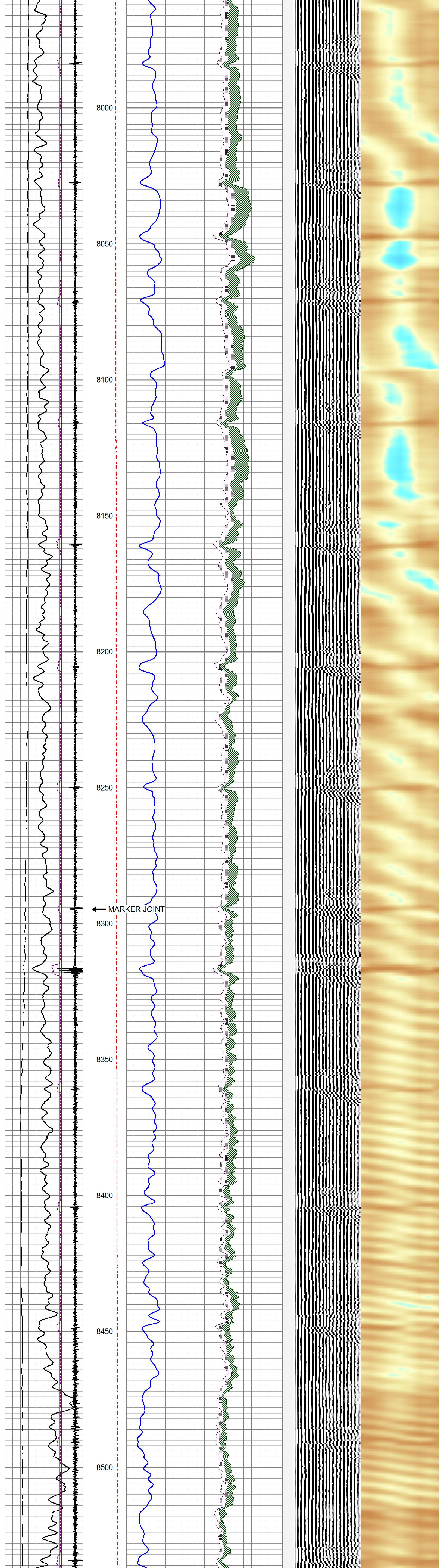
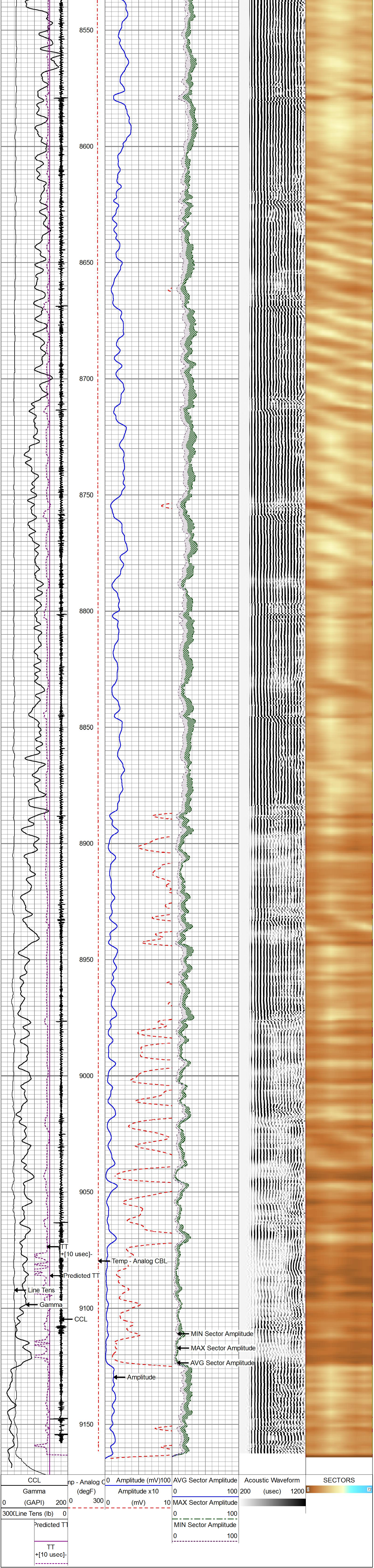








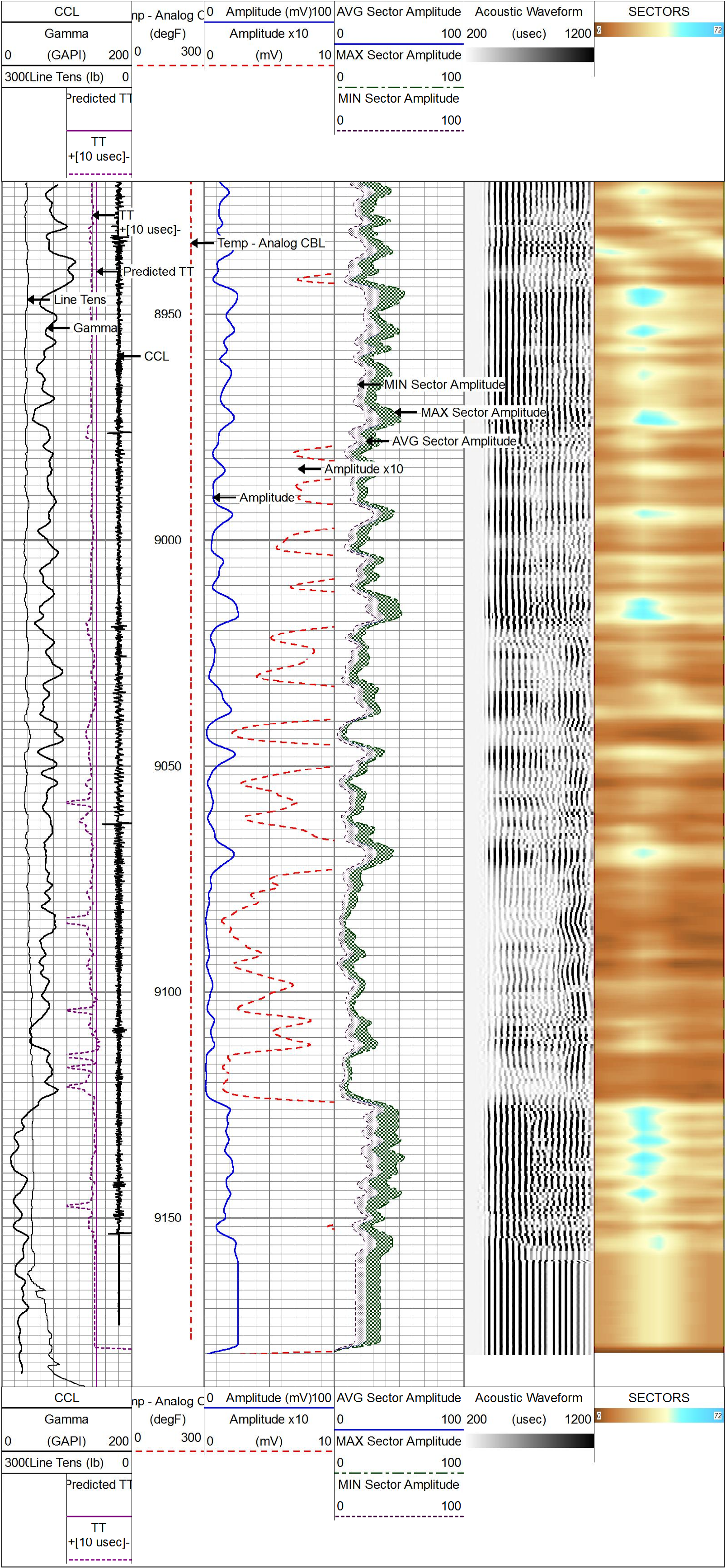
MAIN PASS - Ran with 0 PSI

5 in / 100 ft

REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	2019_06_15_extraction_interchange_b_n35_20_8c_cbl\2019_06_15_extraction_interchange_b_n35_20_8
Dataset Pathname	REPEAT
Presentation Format	rcbl_8s
Dataset Creation	Sat Jun 15 11:06:08 2019
Charted by	Depth in Feet scaled 1:240



REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Calibration Report

Database File	d:\warrior\data\2019_06_15_extraction_interchange_b_n35_20_8c_cbl\2019_06_15_extraction_interchange_
Dataset Pathname	MAIN PASS
Dataset Creation	Sat Jun 15 10:48:59 2019

Gamma Ray Calibration Report

Serial Number:	ISHV2-03	
Tool Model:	2 3/4" TekCo	
Performed:	Thu Apr 25 08:34:21 2019	
Calibrator Value:	194.0	GAPI
Background Reading:	61.7	cps
Calibrator Reading:	373.2	cps
Sensitivity:	0.6226	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	IT4B1-01	
Tool Model:	2 3/4" RIB Analog	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	2260.280	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.002	1.303	0.000	71.921	55.096	0.123
CAL	-0.004	0.624				
5'	0.001	2.255	0.000	71.921	31.910	-0.039
SUM						
S1	0.012	1.880	0.000	72.000	38.546	-0.481
S2	0.015	1.970	0.000	72.000	36.828	-0.559
S3	0.019	1.917	0.000	72.000	37.945	-0.736
S4	0.023	1.866	0.000	72.000	39.072	-0.917
S5	0.023	1.931	0.000	72.000	37.747	-0.872
S6	0.019	1.785	0.000	72.000	40.782	-0.783
S7	0.011	2.034	0.000	72.000	35.585	-0.387
S8	0.010	1.755	0.000	72.000	41.262	-0.424

Internal Reference Calibration, performed Fri Aug 25 15:20:58 2017:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.004	0.624	1.000	0.000

Air Zero Calibration, performed Fri Aug 25 15:20:58 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

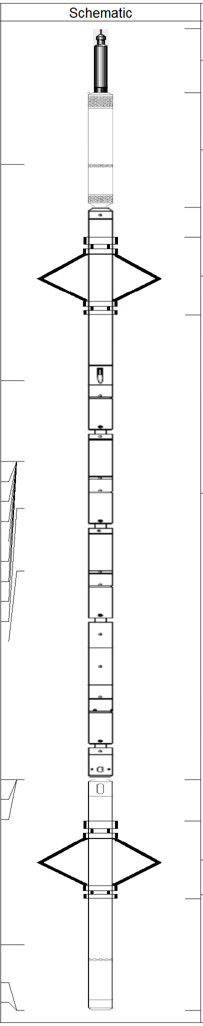
Serial Number: IT4B1-01
Tool Model: 2 3/4" RIB Analog
Performed: Fri Aug 26 10:07:15 2016

	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 (IS2T1-08)	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: 2019_06_15_extraction_interchange_b_n35_20_8c_cbl.db: field/well/run1/MAIN PASS
Total length: 15.67 ft
Total weight: 185.60 lb
O.D.: 2.75 in

Company	Extraction Oil and Gas
Well	Interchange B N35-20-8C
Field	Wattenberg
County	Broomfield
State	CO
Country	U.S.A.