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CEMENT BOND LOG

Company	Extraction Oil and Gas, Inc.
Well	Mt Fed Glenmere 8W-20-25
Field	Wattenberg
County	Weld
State	Colorado

Company Extraction Oil and Gas, Inc.
Well Mt Fed Glenmere 8W-20-25
Field Wattenberg
County Weld **State** Colorado

API # : 05 123 42171
Location: NE/NW
1212 FNL
1756 FWL

Other Services

SEC: 9 TWP: 5N RGE: 65W

Elevation
K.B. 4660
D.F. 4659
G.L. 4635

Permanent Datum: Ground Level Elevation: 4635
Log Measured From: Kelly Bushing , 25 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	09 June2019
Run Number	One
Plug Back T.D. Driller	----
Plug Back T.D. Logger	----
Bottom Logged Interval	8270
Top Log Interval	Surface
Type Fluid	Water
Density / Viscosity	----
Max. Recorded Temp.	241
Time Logger on Bottom	08:30
Equipment Number	GD114
Location	Casper
Recorded By	GS Yarbro
Witnessed By	Mr. Colby Hansen

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8	36	25	----				
5 1/2	20	25	----				

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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 # : RM0915PCBW422
Your Crew Today: Cheesman, Lev
Log Correlated to: Surface

Cement Data

Date Cemented	----
Primary / Squeeze	Primary
Type / Weight	----
Main Pass Press.	Zero
Repeat Pass Press.	Zero

Bond Index

Index %	Est Top Depth
20 % Bond	120
40 % Bond	1200
60 % Bond	1850
80 % Bond	1850
100 % Bond	2150

Comments

Estimated Top of Cement
(20 % Bond Index) at 120 feet

Thank you for using Gyrodata

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

Log Variables

Database D:\Warrior\Data\20190609_extraction_mt fed glenmere 8w-20-25_cbl\20190609_extractio
Dataset field/well/run1/pass4/_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

MINAMPL mV	MinAPIID in	MINATTN db/ft	PPT usec	TDEPTH ft
2.1	4.751	0	240	0

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BOND INDEX

Calculated for 3000 PSI Compressive Strength Cement

Database File	20190609_extraction_mt fed glenmere 8w-20-25_cbl\20190609_extraction_mt fed glenmere 8w-20-25_cbl
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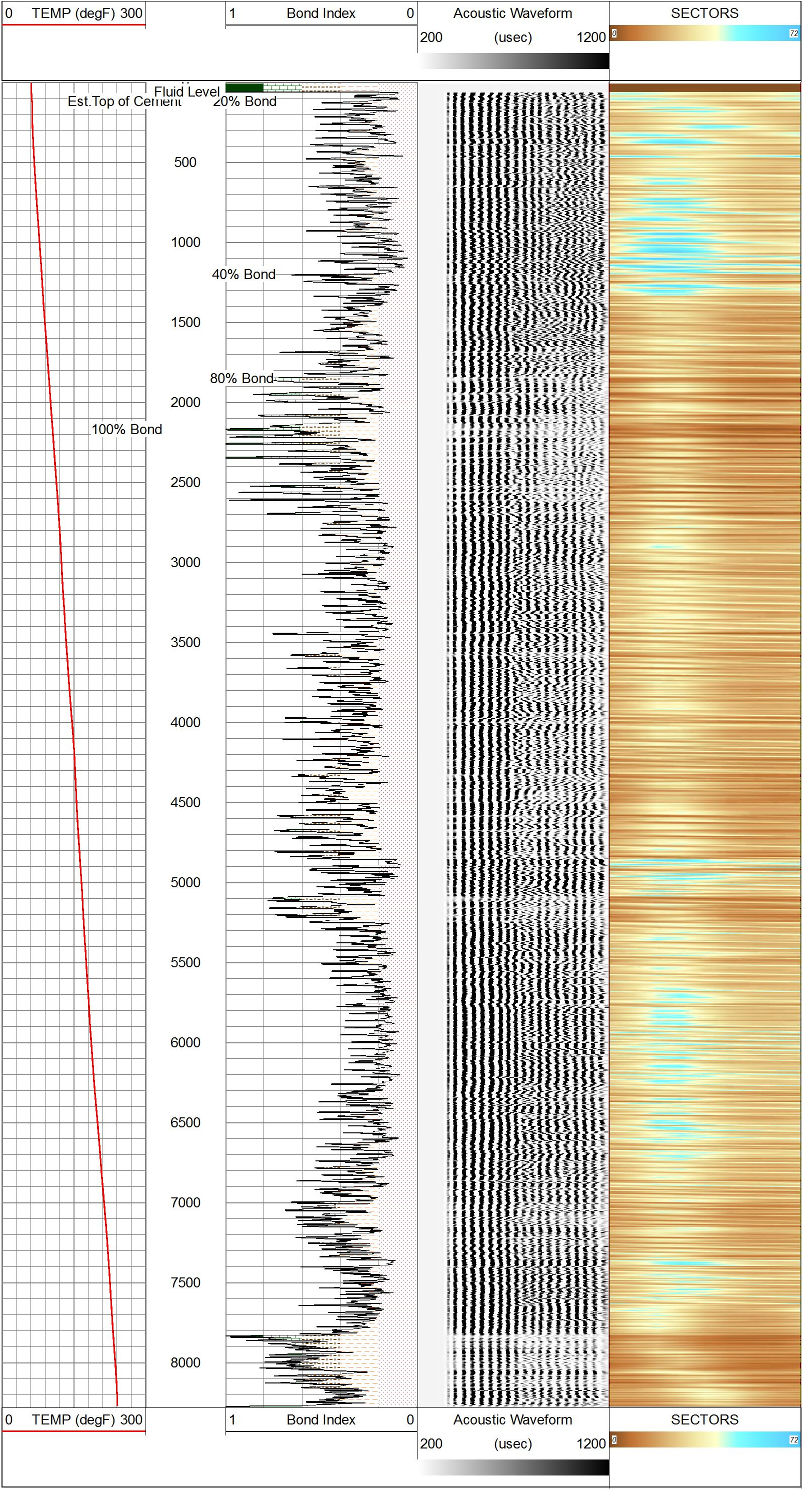
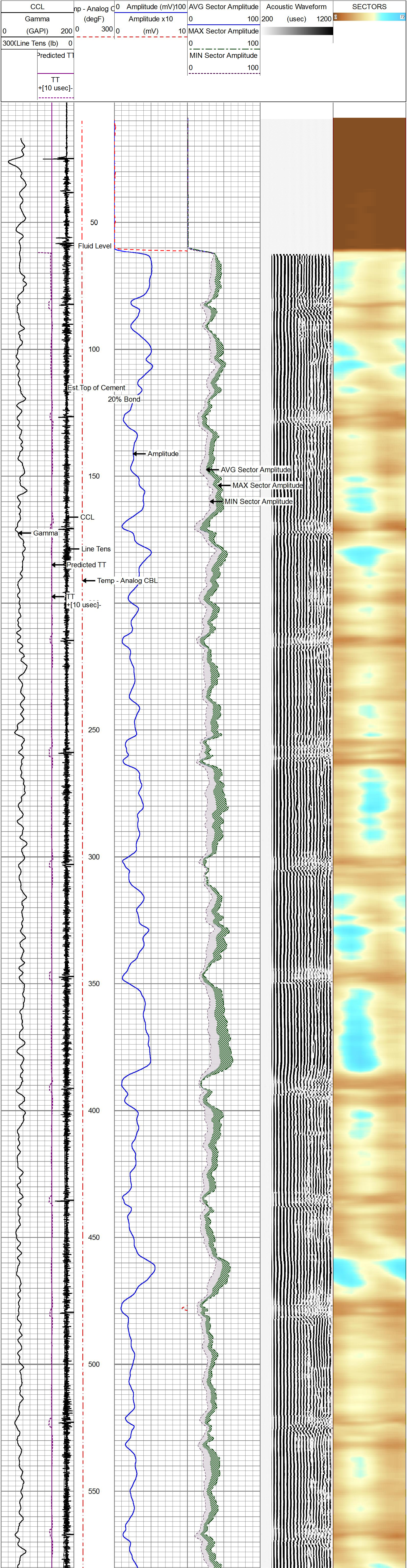
Presentation Format	BNDIND~1
Dataset Creation	Sun Jun 09 11:07:03 2019
Charted by	Depth in Feet scaled 1:7500

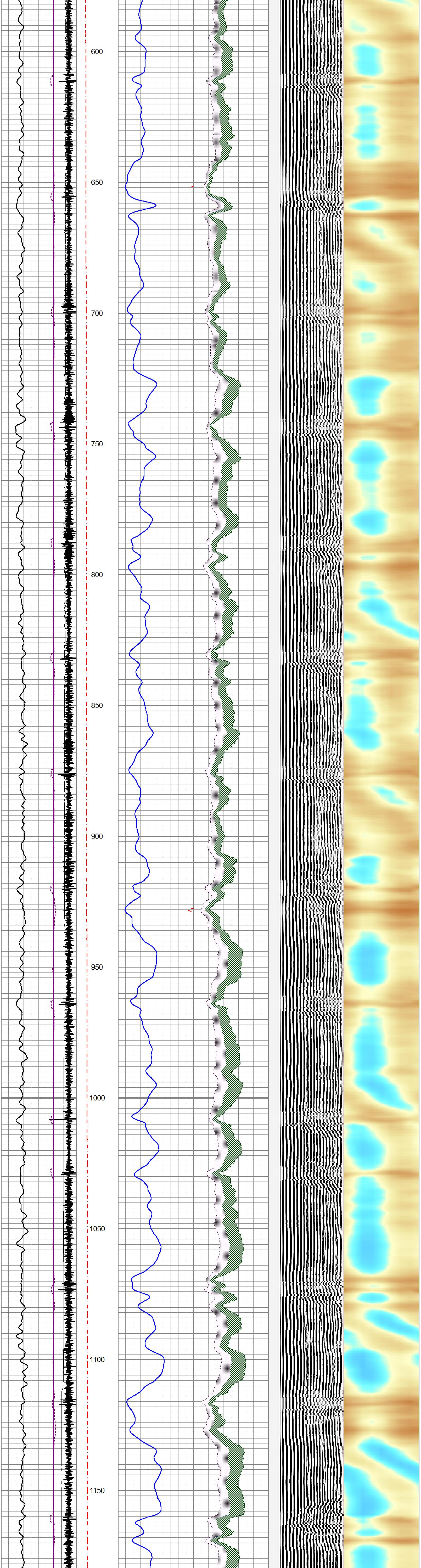


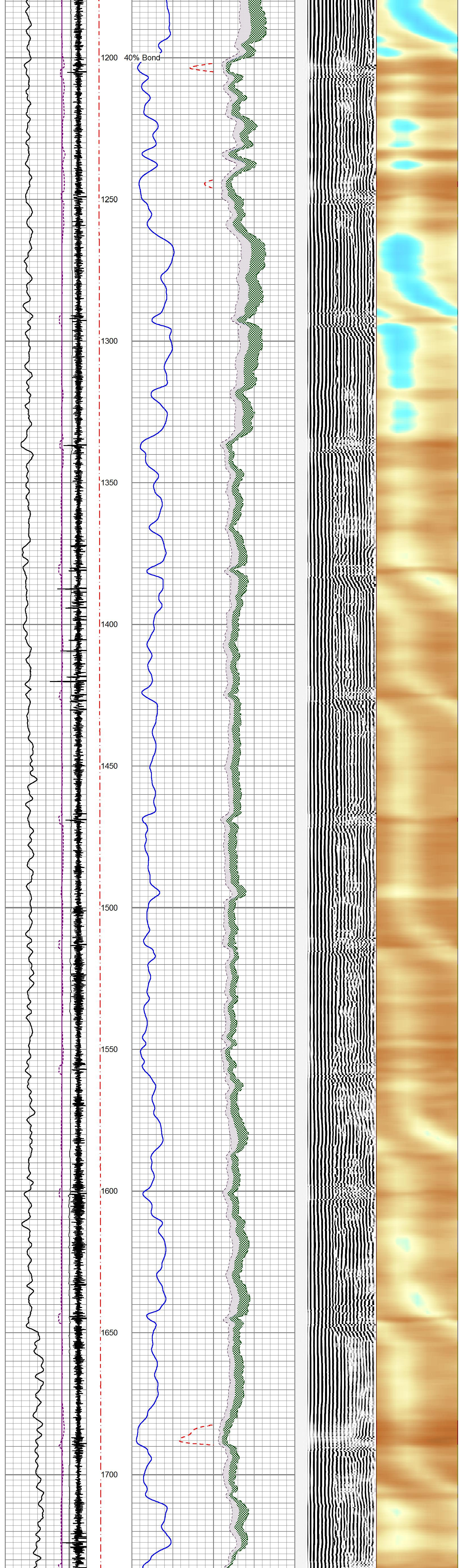
MAIN PASS - Ran with 0 PSI

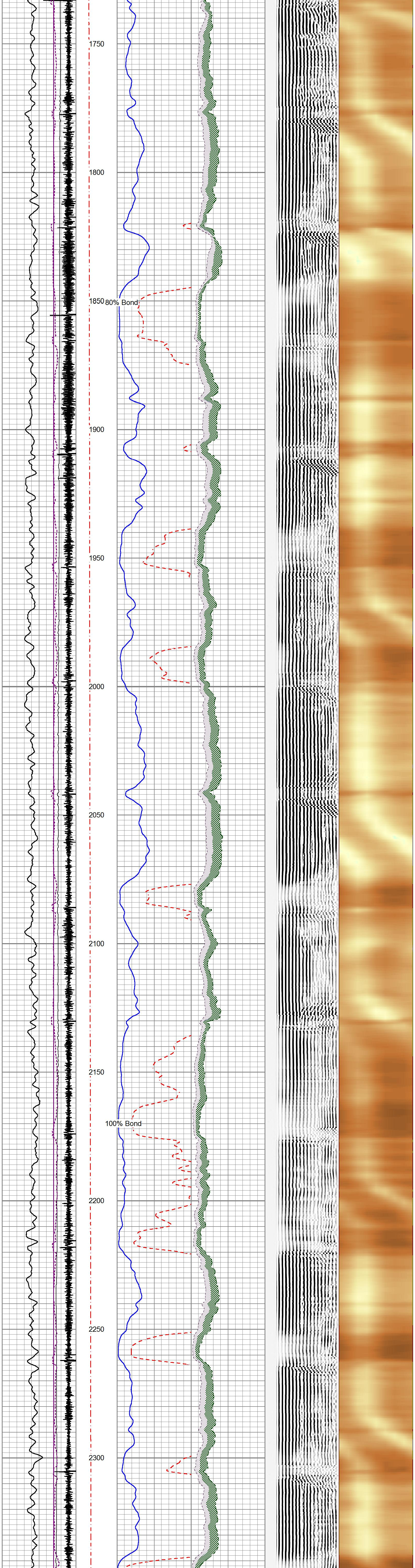
5 in / 100 ft

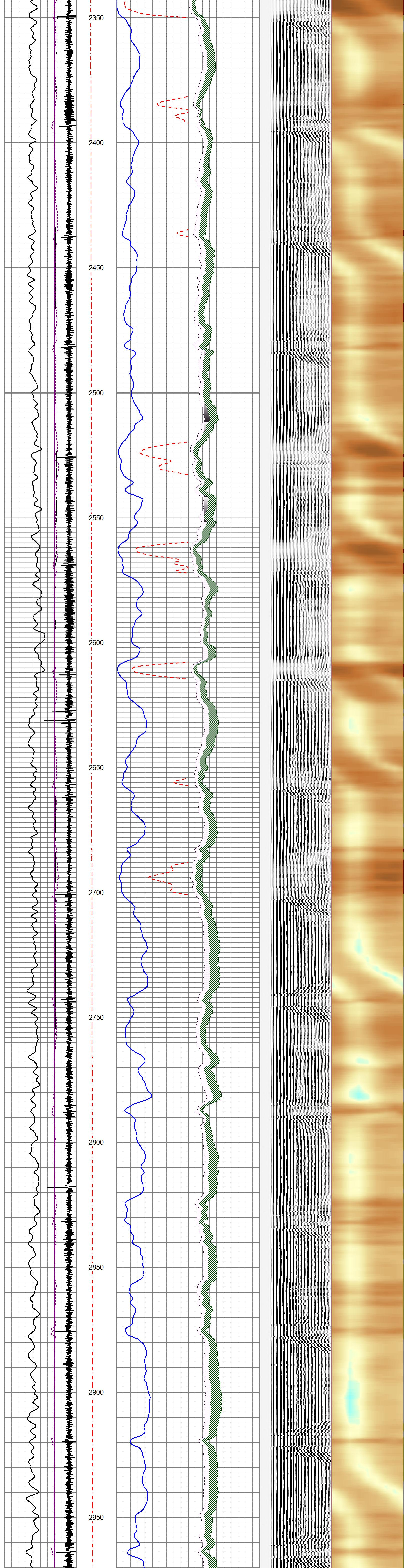
Database File	20190609_extraction_mt fed glenmere 8w-20-25_cbl\20190609_extraction_mt fed glenmere 8w-20-25_cbl
Dataset Pathname	pass4
Presentation Format	rcbl_8s
Dataset Creation	Sun Jun 09 09:39:28 2019
Charted by	Depth in Feet scaled 1:240

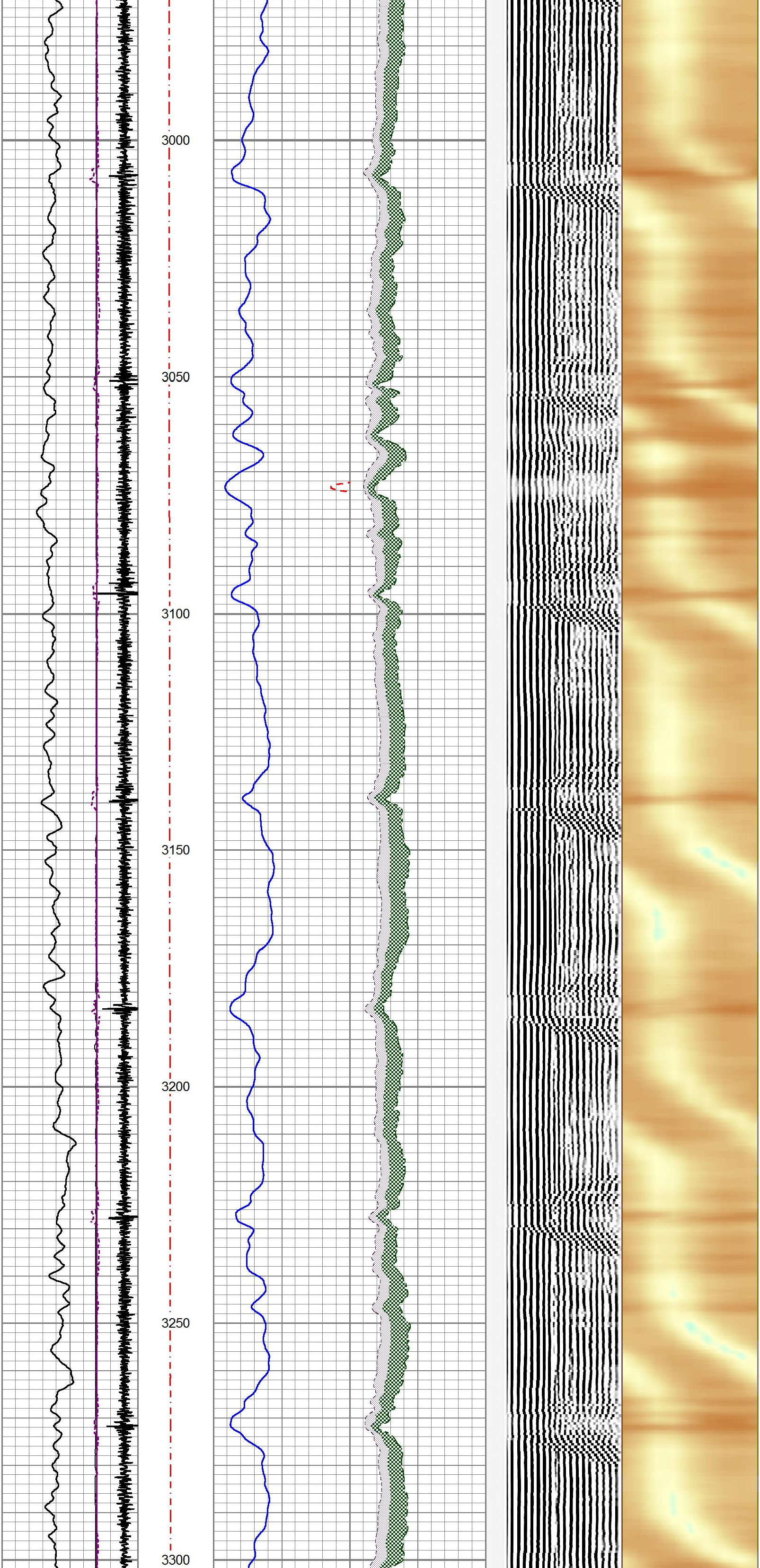


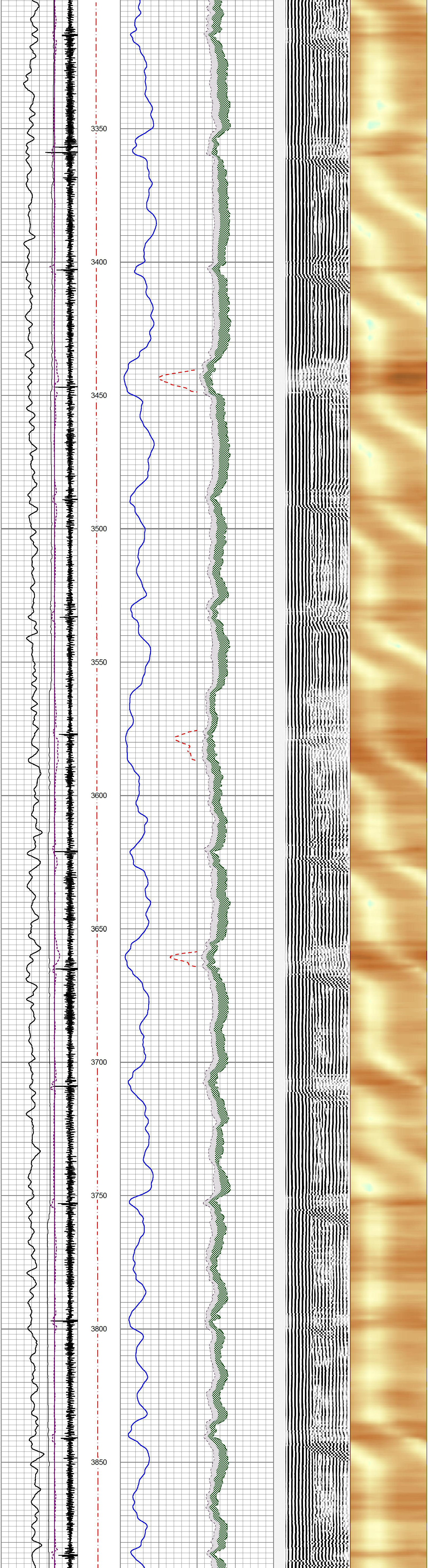








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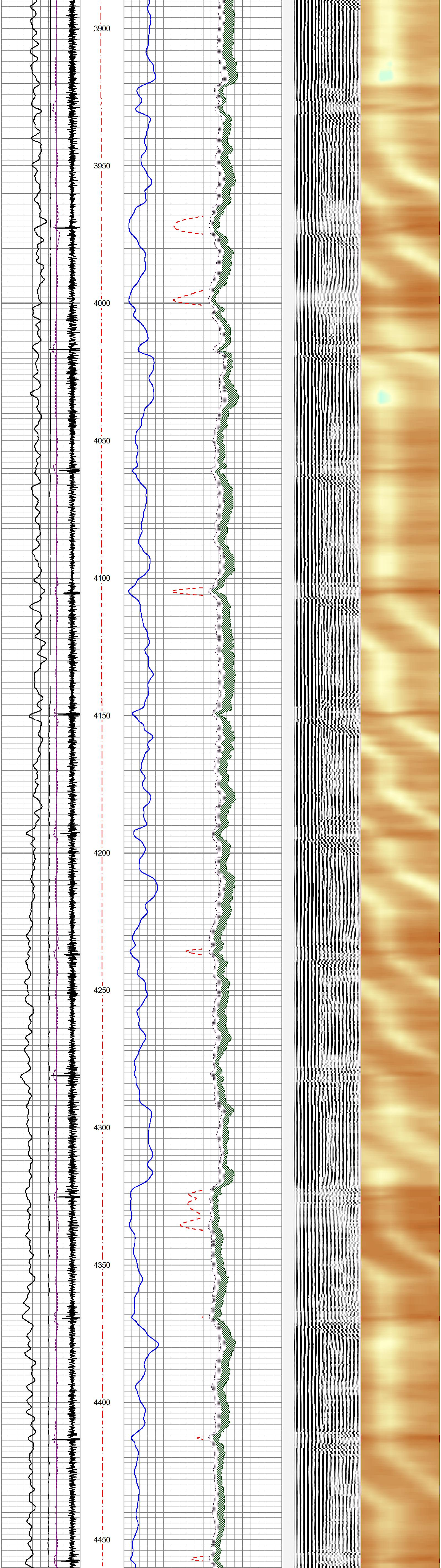
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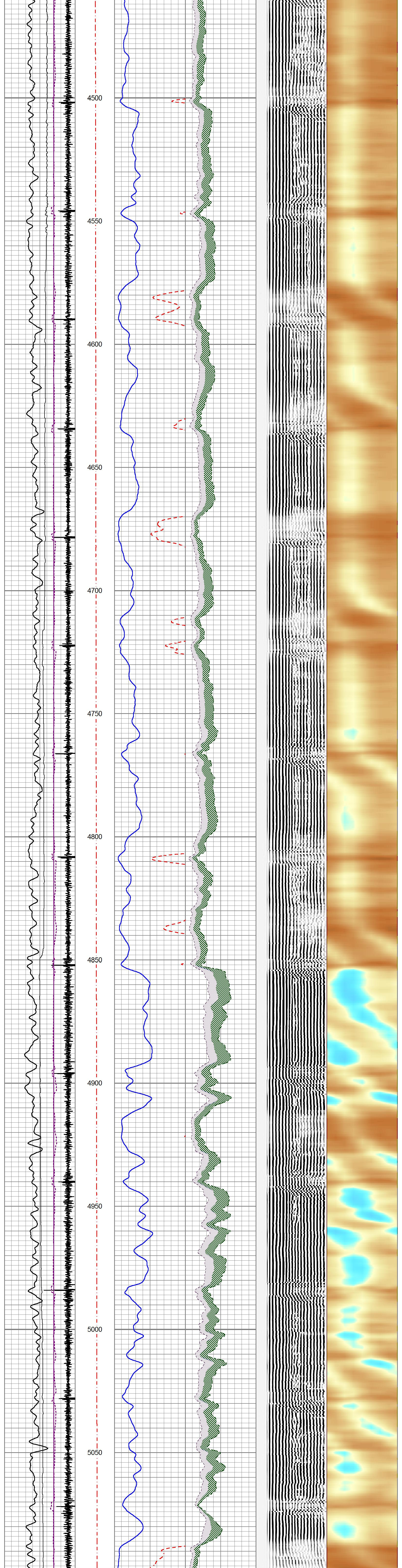
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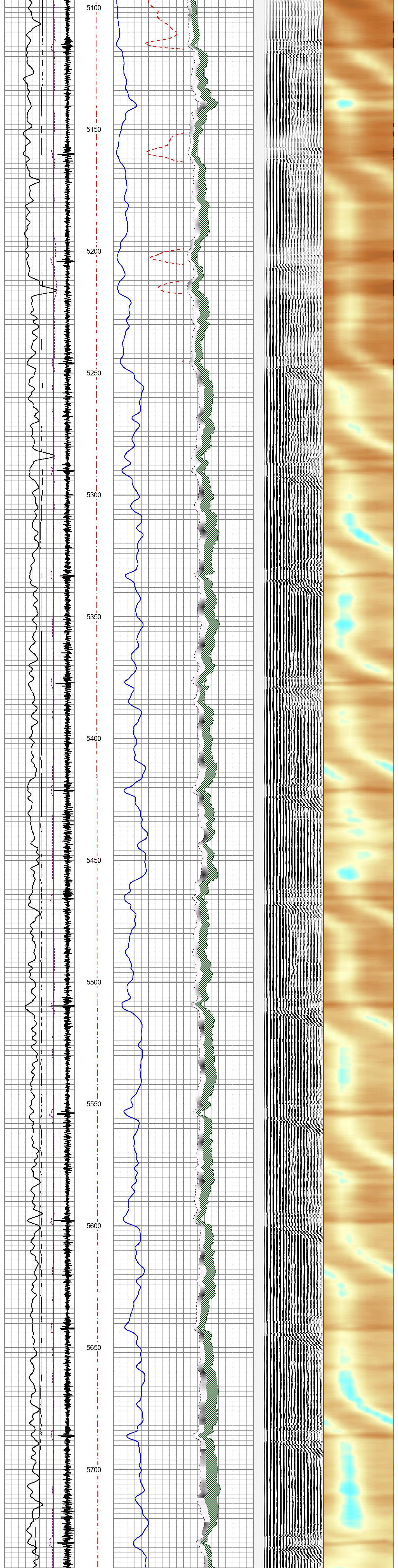
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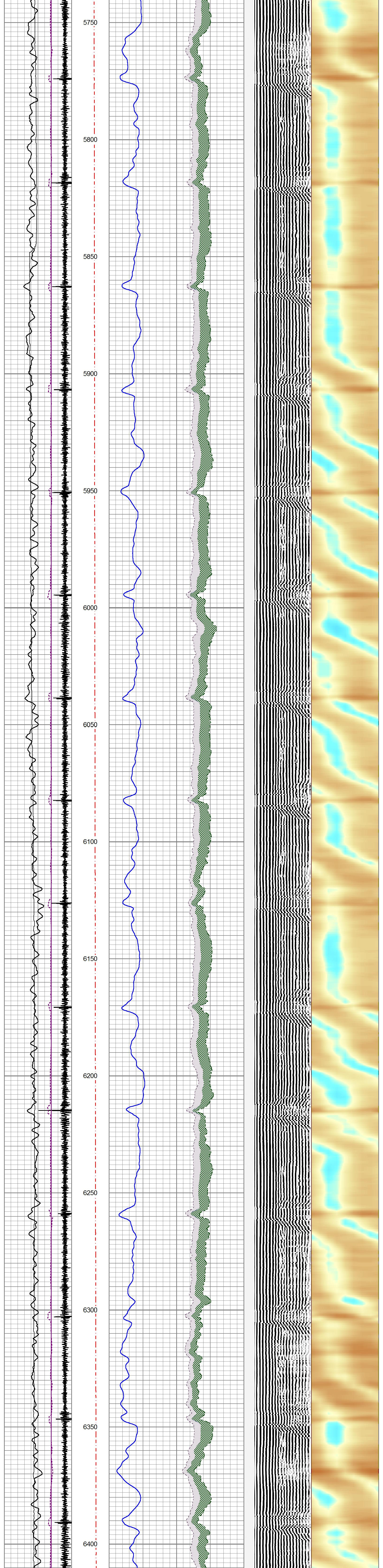
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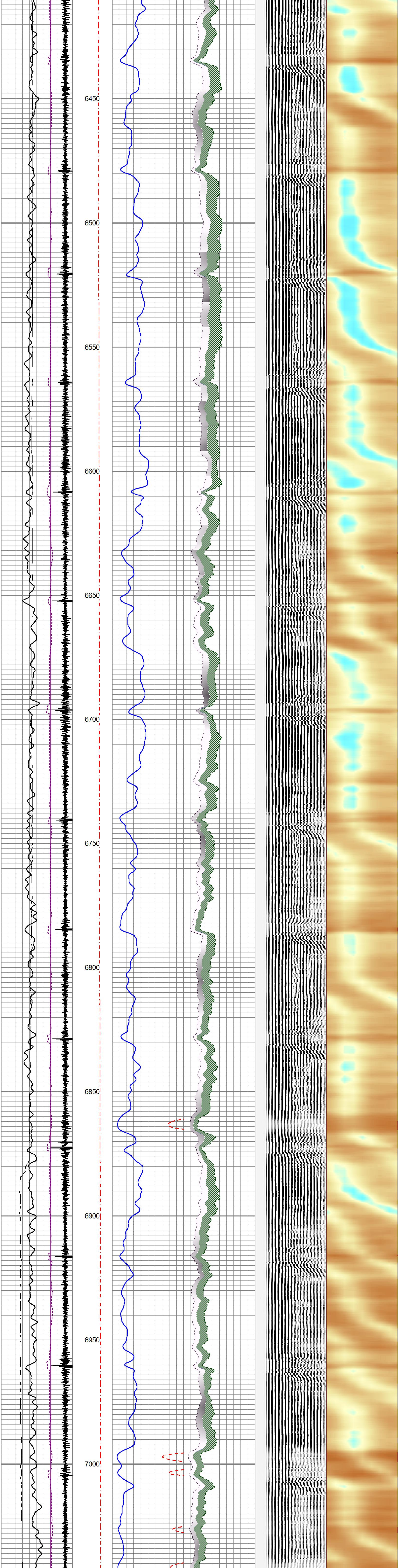
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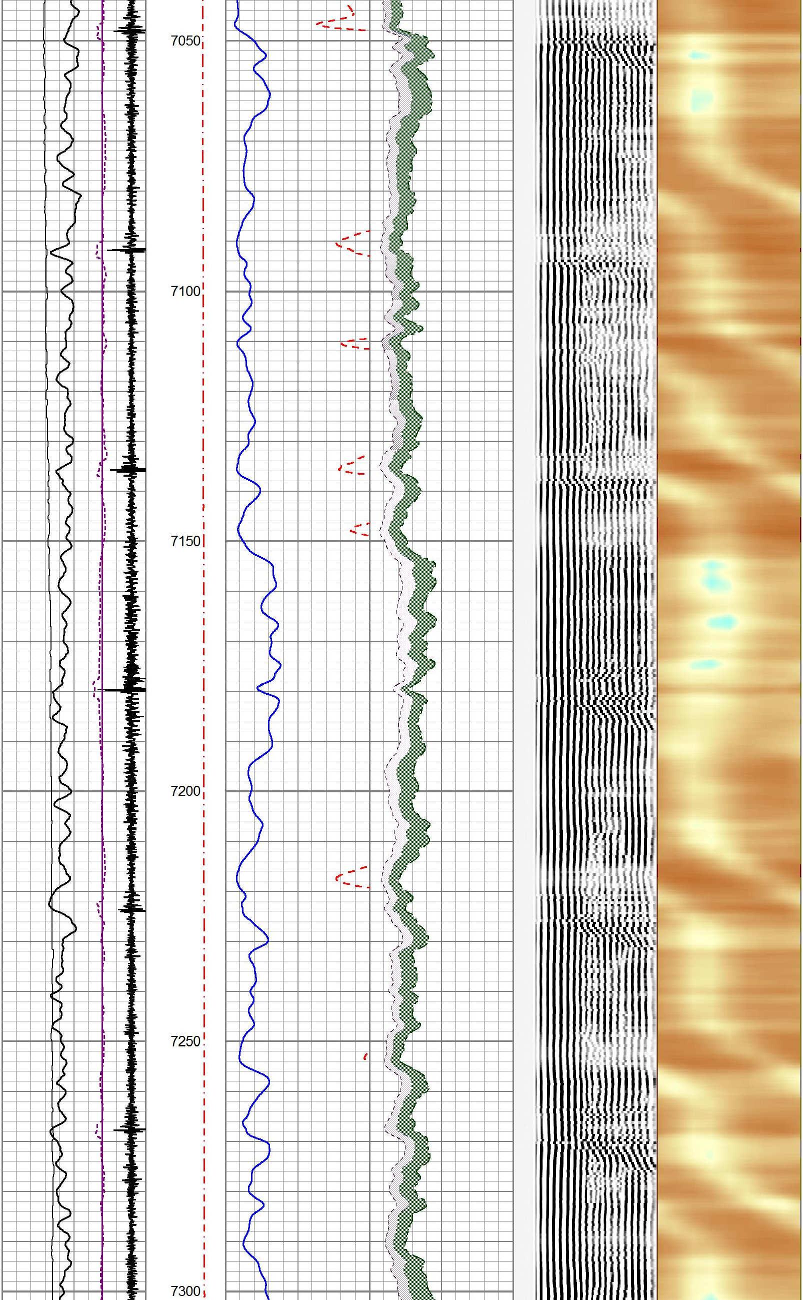
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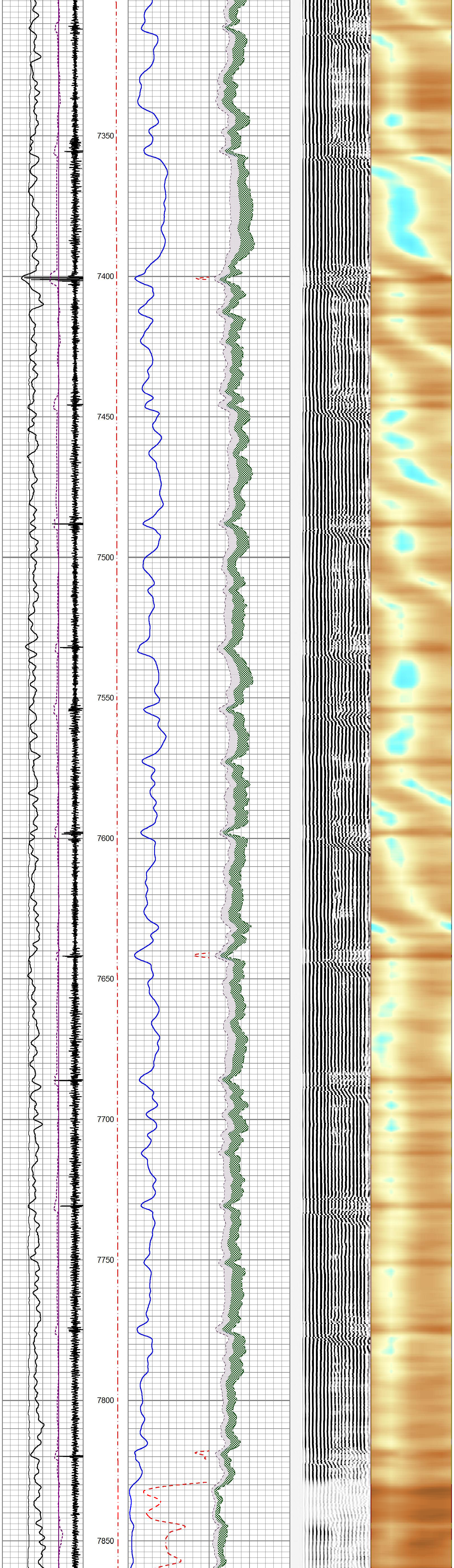

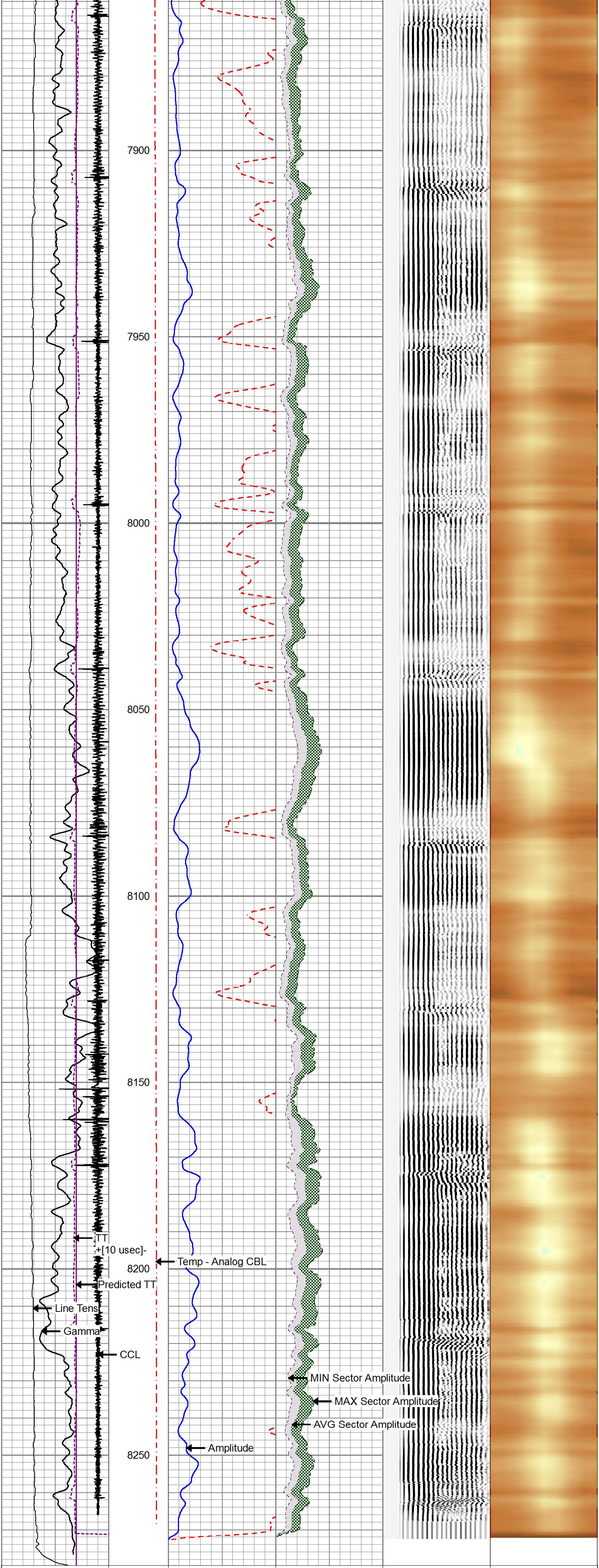

CCL	np - Analog C	0 Amplitude (mV)100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 (usec) 1200	0 72
0 (GAPI) 200	0 300	0 (mV) 10	MAX Sector Amplitude		
300(Line Tens (lb) 0			0 100		
Predicted TT			MIN Sector Amplitude		
TT +[10 usec]-			0 100		

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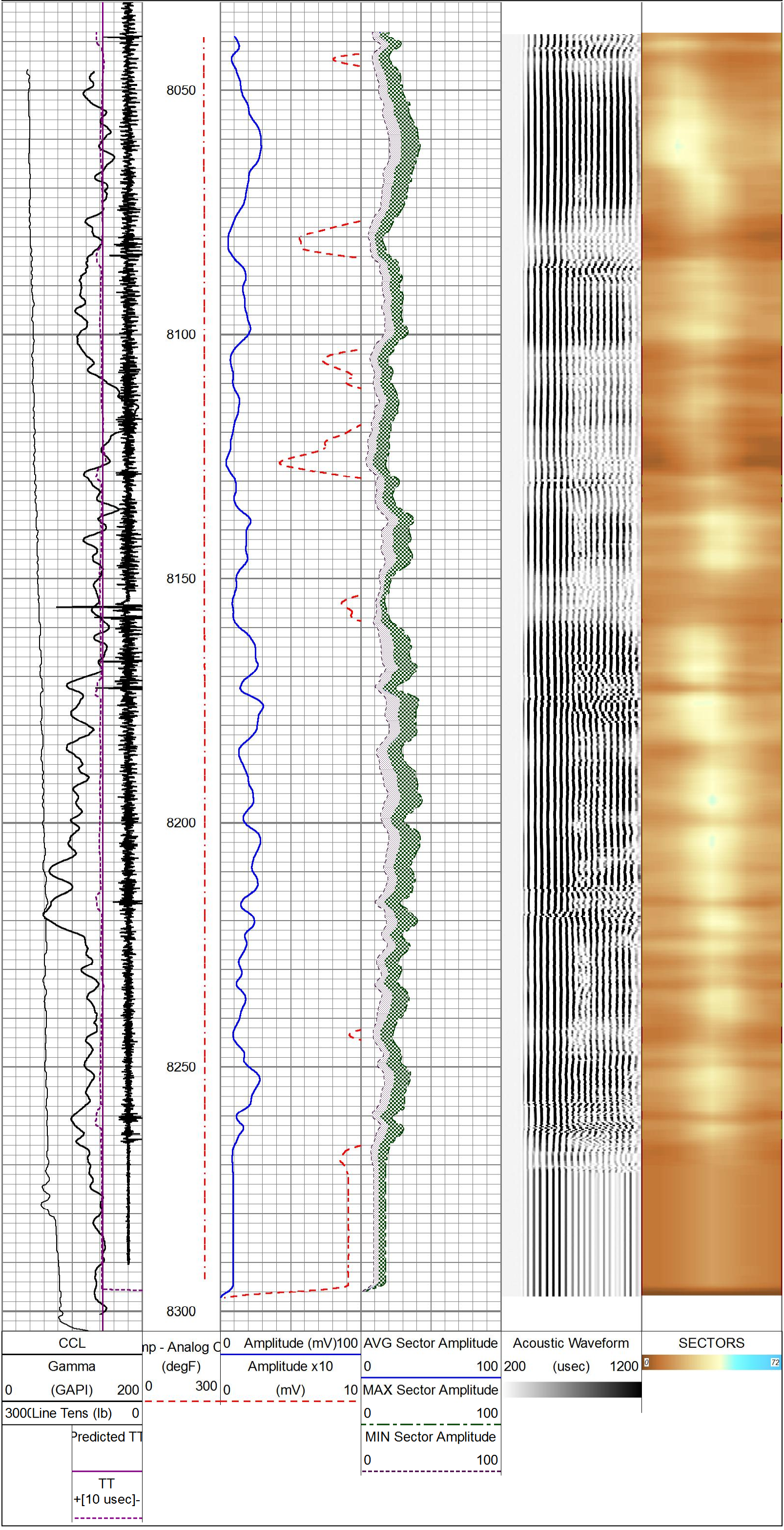
REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File	20190609_extraction_mt fed glenmere 8w-20-25_cbl\20190609_extraction_mt fed glenmere 8w-20-25_cbl
Dataset Pathname	pass3
Presentation Format	rcbl_8s
Dataset Creation	Sun Jun 09 09:33:51 2019
Charted by	Depth in Feet scaled 1:240

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



Calibration Report

Database File	D:\Warrior\Data\20190609_extraction_mt fed glenmere 8w-20-25_cbl\20190609_extraction_mt fed glenmere
Dataset Pathname	pass4
Dataset Creation	Sun Jun 09 09:39:28 2019

Gamma Ray Calibration Report

Serial Number:	IXEM9-02	
Tool Model:	2 3/4" TekCo	
Performed:	Thu Apr 25 09:11:34 2019	
Calibrator Value:	194.0	GAPI
Background Reading:	66.1	cps
Calibrator Reading:	391.4	cps
Sensitivity:	0.5963	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	IRB34-03	
Tool Model:	2 3/4" RIB Analog	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	122.740	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.001	1.879	0.000	71.921	38.250	0.040
CAL	-0.004	0.746				
5'	-0.000	1.786	0.000	71.921	40.259	0.001
SUM						
S1	0.006	2.205	0.000	72.000	32.736	-0.182
S2	0.004	2.239	0.000	72.000	32.225	-0.141
S3	0.003	2.197	0.000	72.000	32.823	-0.102
S4	0.003	2.258	0.000	72.000	31.926	-0.089
S5	0.003	2.284	0.000	72.000	31.570	-0.109
S6	0.005	2.289	0.000	72.000	31.522	-0.147
S7	0.006	2.281	0.000	72.000	31.654	-0.203
S8	0.007	2.235	0.000	72.000	32.306	-0.218

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.004	0.746	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

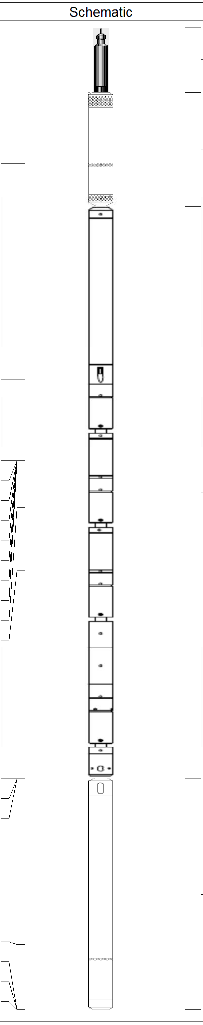
Serial Number:	IRB34-03
Tool Model:	2 3/4" RIB Analog
Performed:	Wed Jan 30 12:38:18 2019

	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
PMON	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 (IPSN7-002)	1.83	2.75	33.00
RBTA-2 3/4" RIB Analog (IRB34-03)	9.13	2.75	102.00
GR_Log-2 3/4" TekCo (IXEM9-02)	3.68	2.75	47.00

Dataset:	20190609_extraction_mt fed glenmere 8w-20-25_cbl.db: field/well/run1/pass4
Total length:	15.67 ft
Total weight:	185.60 lb
O.D.:	2.75 in

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Company	Extraction Oil and Gas, Inc.		
Well	Mt Fed Glenmere 8W-20-25		
Field	Wattenberg		
County	Weld		
State	Colorado	**Country**	U.S.A.