CEMENT BOND LOG

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Company	Extraction Oil an Gas Inc.
Well	Wake North Fed 33W-25-20
Field	Wattenburg
County	Weld
State	Colorado

Company Extraction Oil an Gas Inc.
Well Wake North Fed 33W-25-20
Field Wattenburg
County Weld State Colorado

API # : 05 123 45008
Location: SW/SE
855 FSL
1618 FEL

Other Services

SEC: 32 TWP: 6N RGE: 65W

Elevation
K.B. 4673
D.F.
G.L. 4643

Permanent Datum: Ground Level Elevation: 4643
Log Measured From: Kelly Bushing , 29 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	February 8, 2021
Run Number	One
Plug Back T.D. Driller	---
Plug Back T.D. Logger	---
Bottom Logged Interval	7600
Top Log Interval	Surface
Type Fluid	Water
Density / Viscosity	---
Max. Recorded Temp.	239
Time Logger on Bottom	1400
Equipment Number	GD140
Location	Casper
Recorded By	GS Yarbro
Witnessed By	D. Herrara

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8	36	29					
5 1/2	20	29					

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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 wilful 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 # : RM0221PCBW133
Your Crew Today: Baker, Bittleston
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	1440
40 % Bond	2070
60 % Bond	2570
80 % Bond	2570
100 % Bond	2570

Comments

Estimated Top of Cement
(20 % Bond Index) at 1440 feet

Thank you for using Gyrodata

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

Log Variables

Databased:\data\20210208_extraction_wake north fed 33w-25-20_cbl\20210208_extraction_wake r
Dataset field/well/run1/pass3.1/_vars_

Top - Bottom

BHTEMP_Src	CASEID in	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MaxAPIID in	MINAMPL mV
TEMP	4.778	5.5	0.361	20	71.9	4.868	2.1

MinAPIID in	MINATTN db/ft	PPT usec	Z_NA_1	Z_NA_2	Z_NA_3
4.695	0	226	0	0	0

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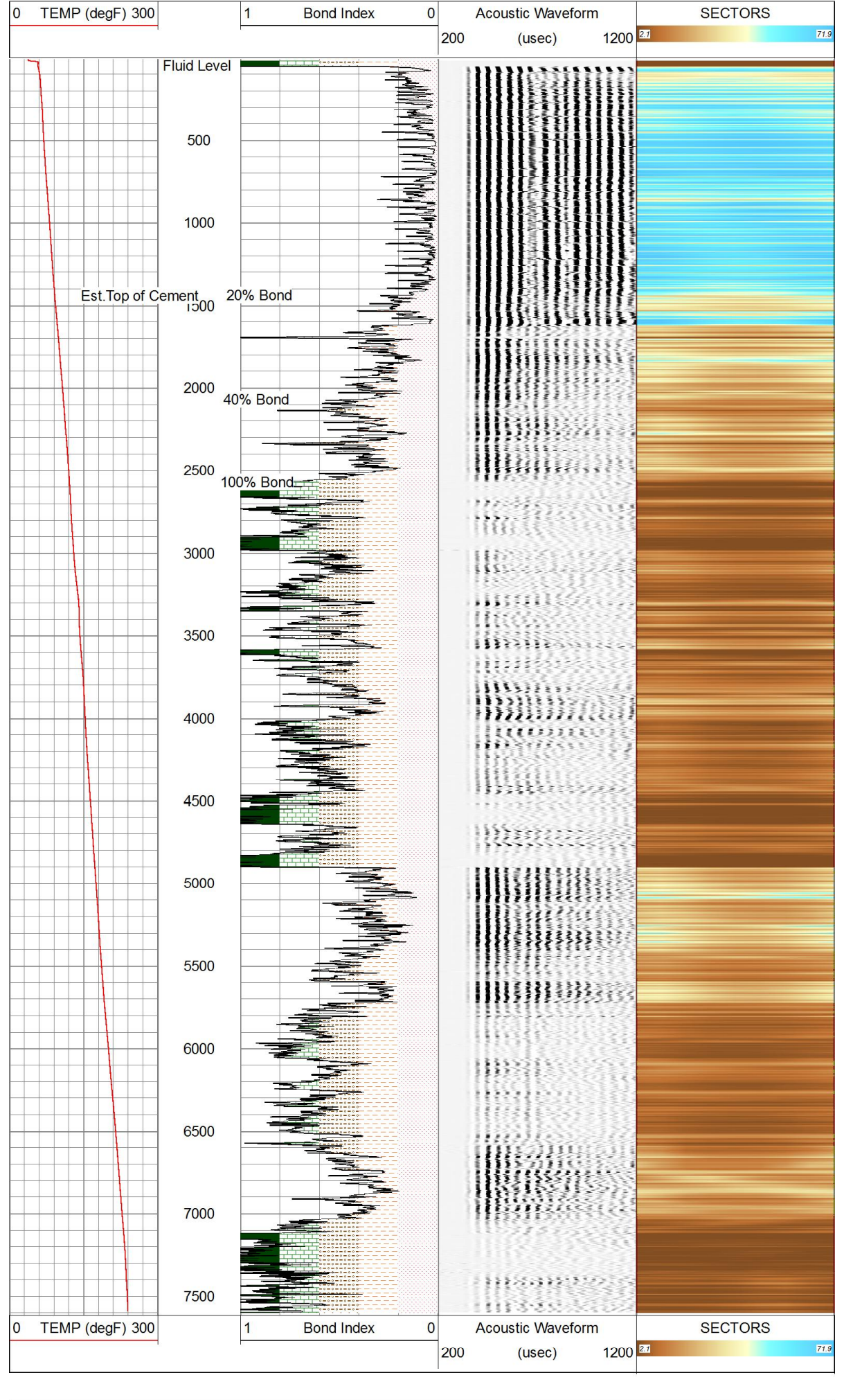
BOND INDEX

Calculated for 3000 PSI Compressive Strength Cement

Database File 20210208_extraction_wake north fed 33w-25-20_cbl\20210208_extraction_wake north fed 33w-25-20_cbl.
Dataset Pathname ./././bndindx
Presentation Format BNDIND~1
Dataset Creation Mon Feb 08 16:10:40 2021
Charted by Depth in Feet scaled 1:7500



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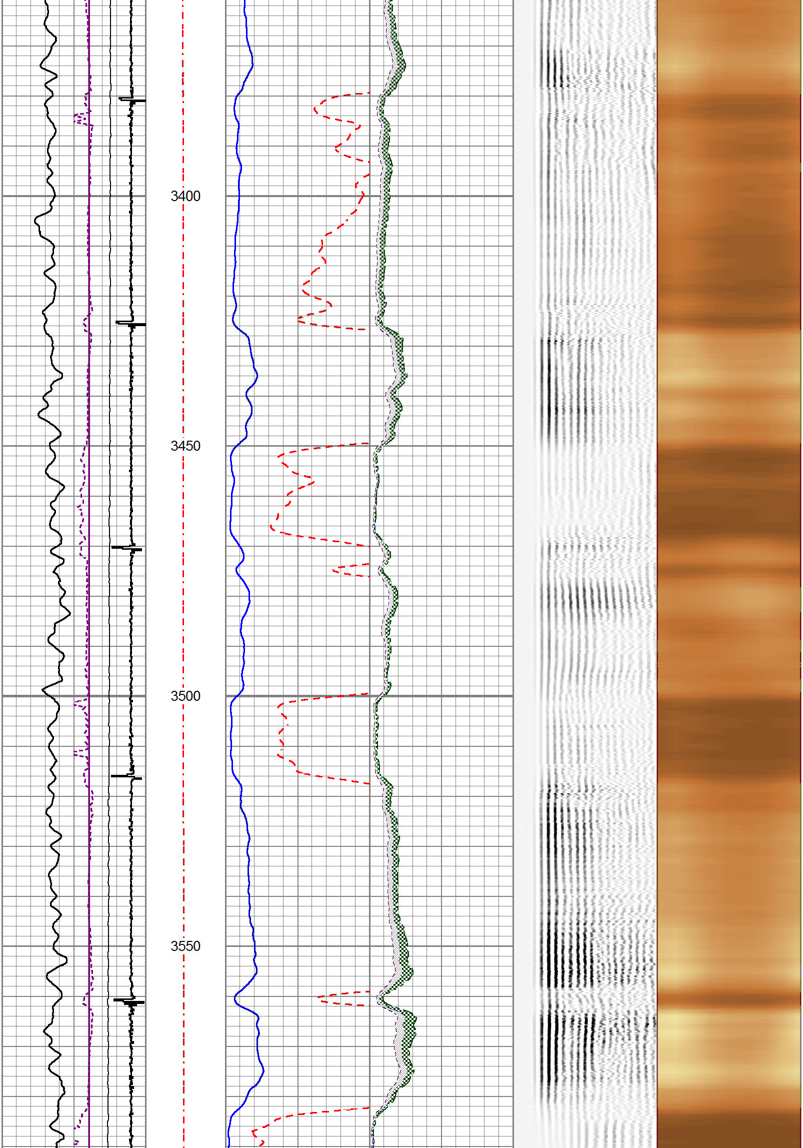
MAIN PASS - Ran with Zero PSI

5 in / 100 ft

Database File 20210208_extraction_wake north fed 33w-25-20_cbl\20210208_extraction_wake north fed 33w-25-20_cbl.
Dataset Pathname pass3.1
Presentation Format rcbl_8s
Dataset Creation Mon Feb 08 16:08:09 2021
Charted by Depth in Feet scaled 1:240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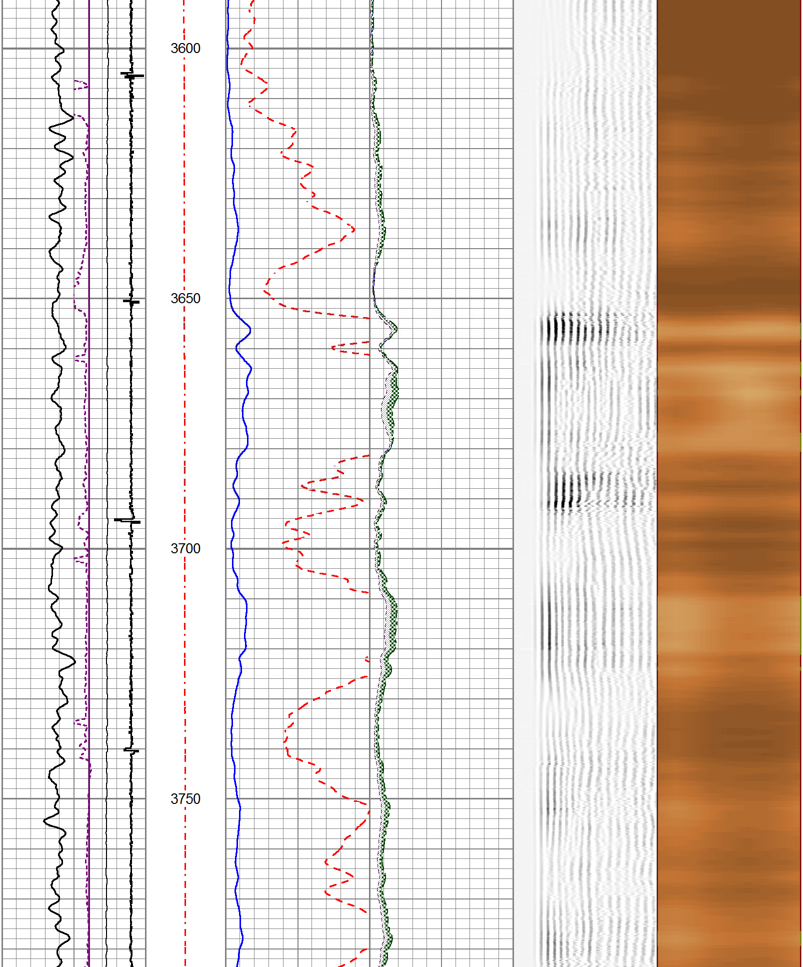
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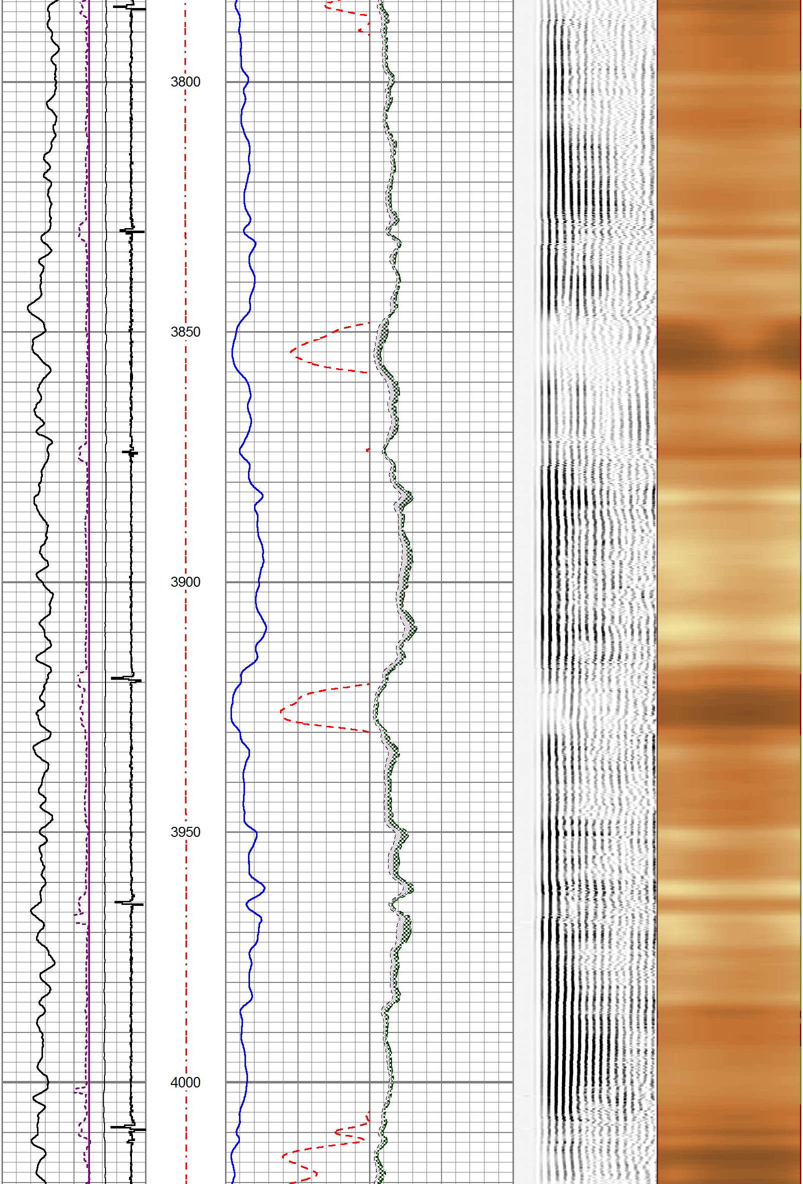
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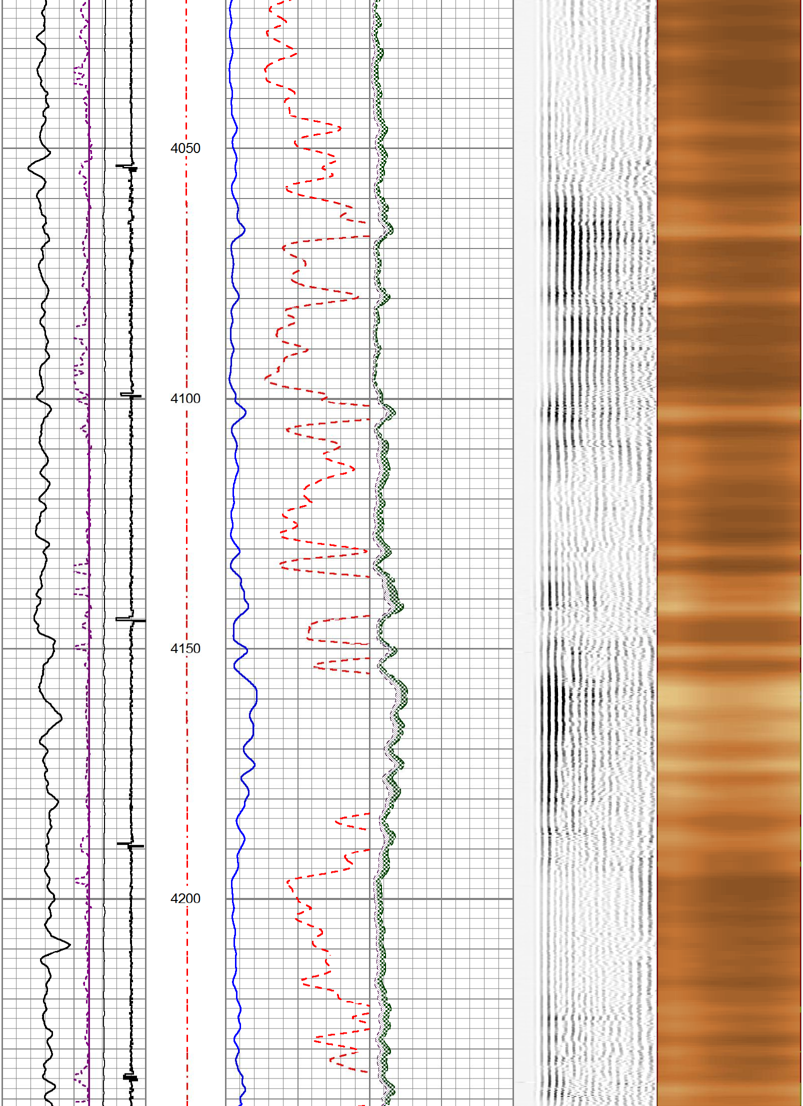
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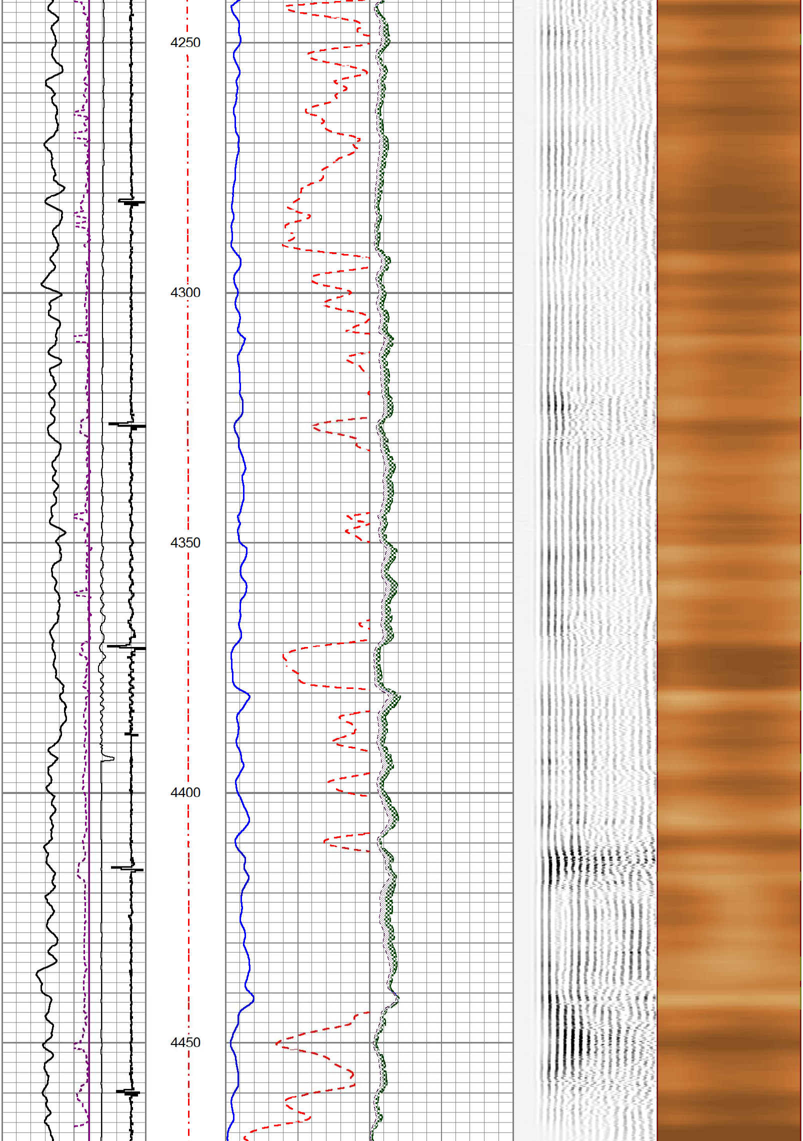
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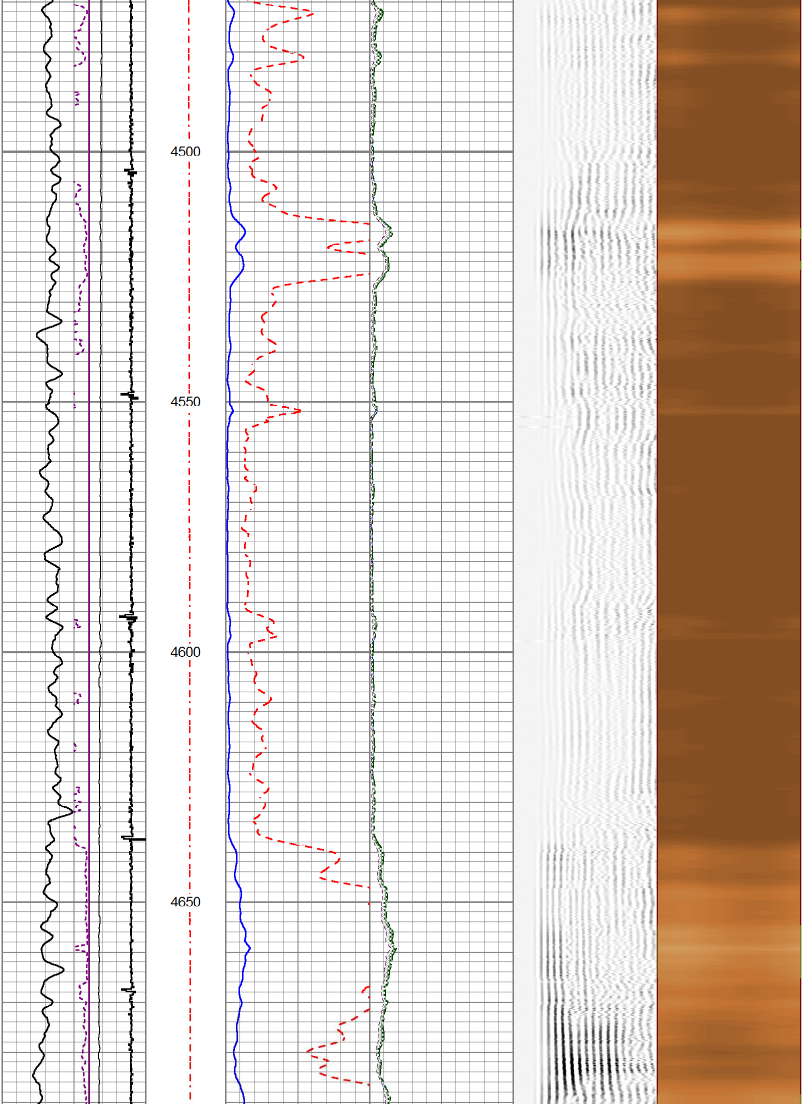
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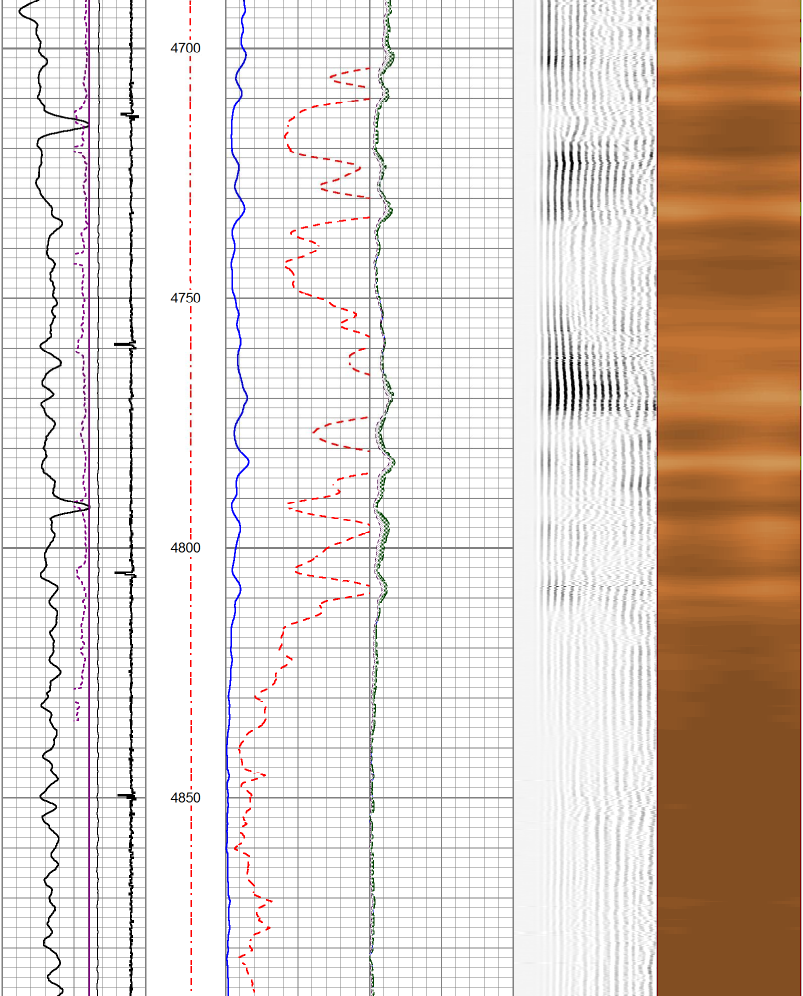
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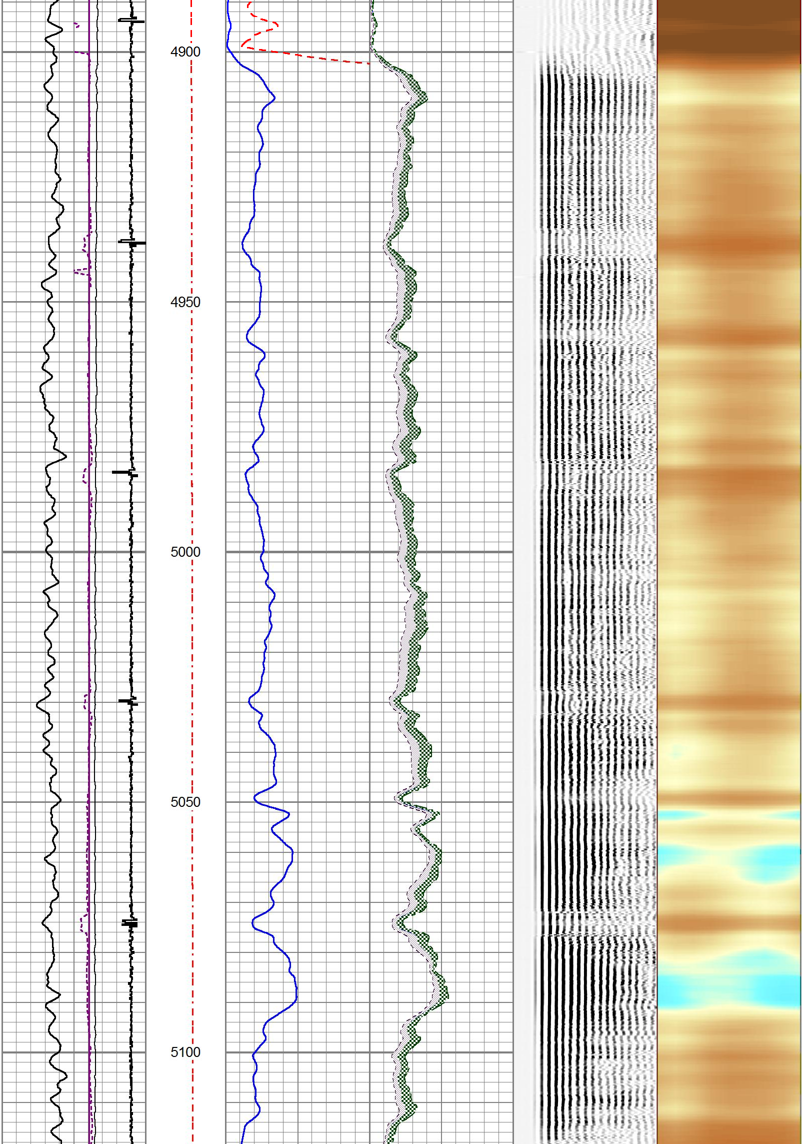
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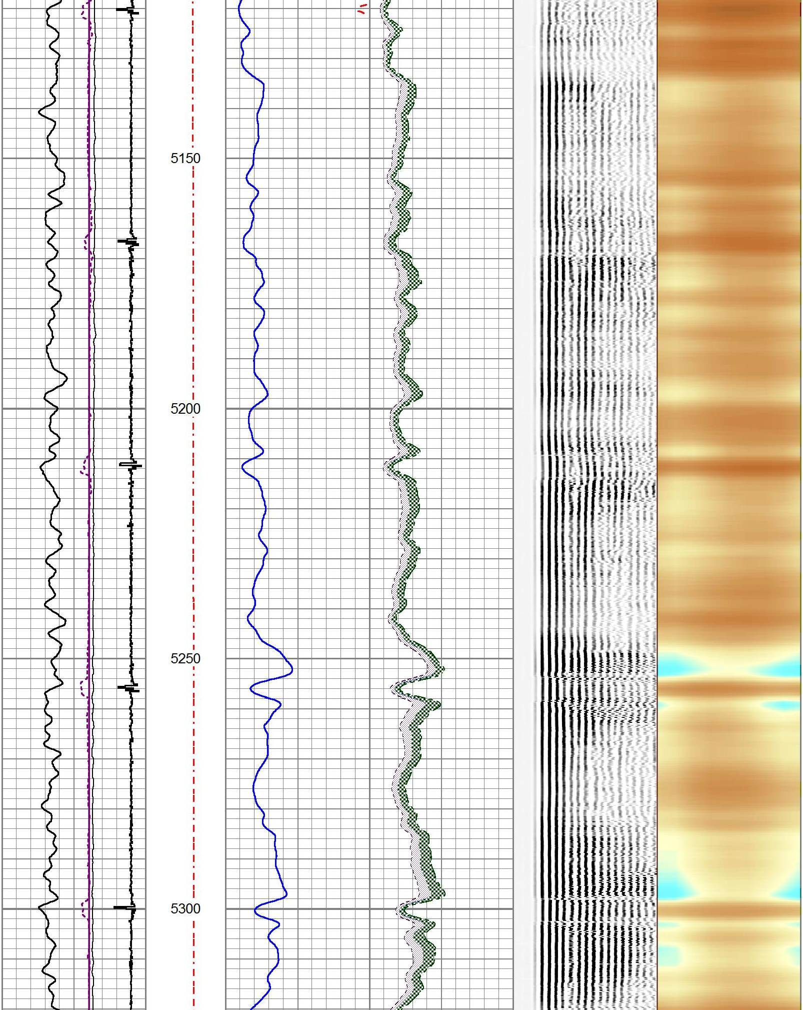
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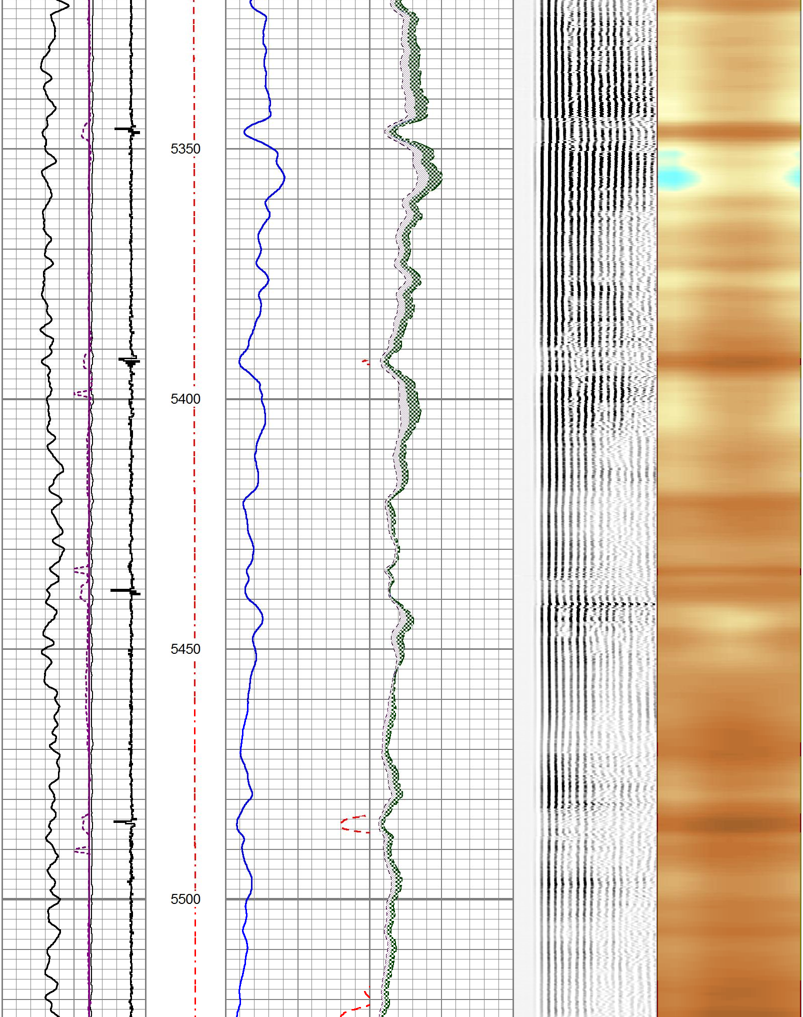
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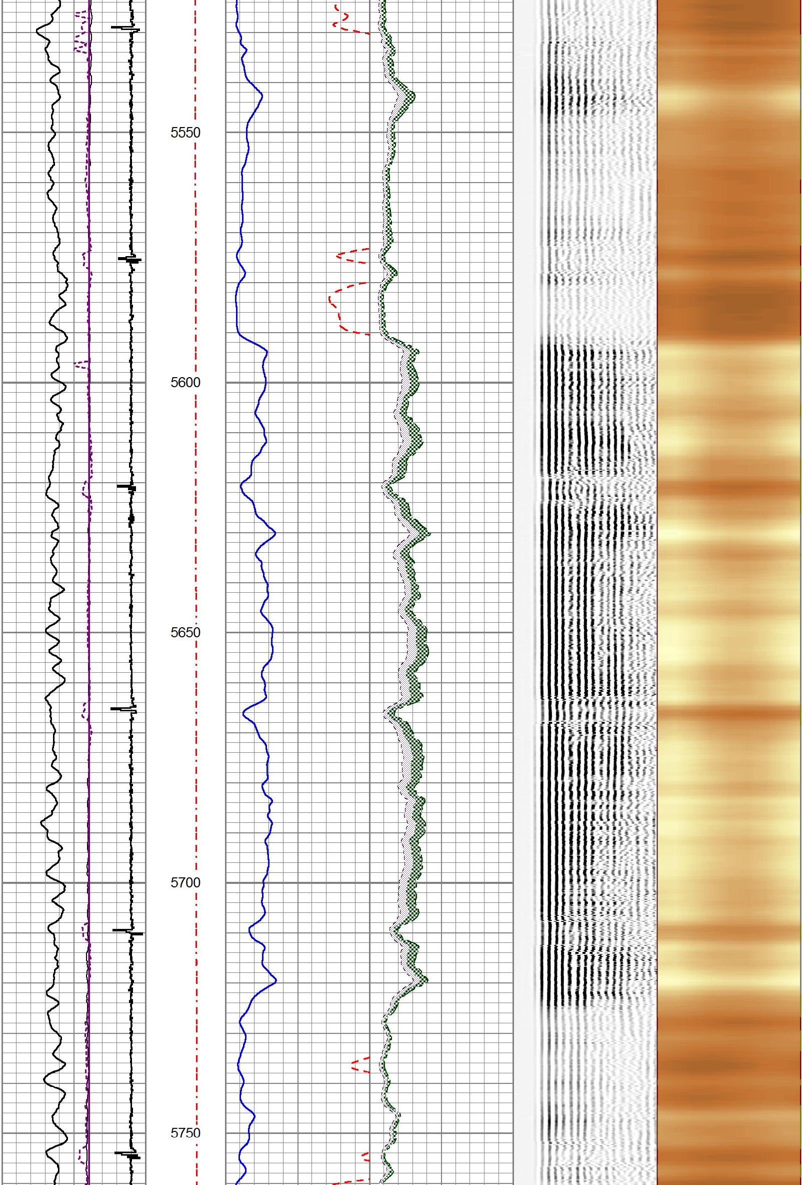
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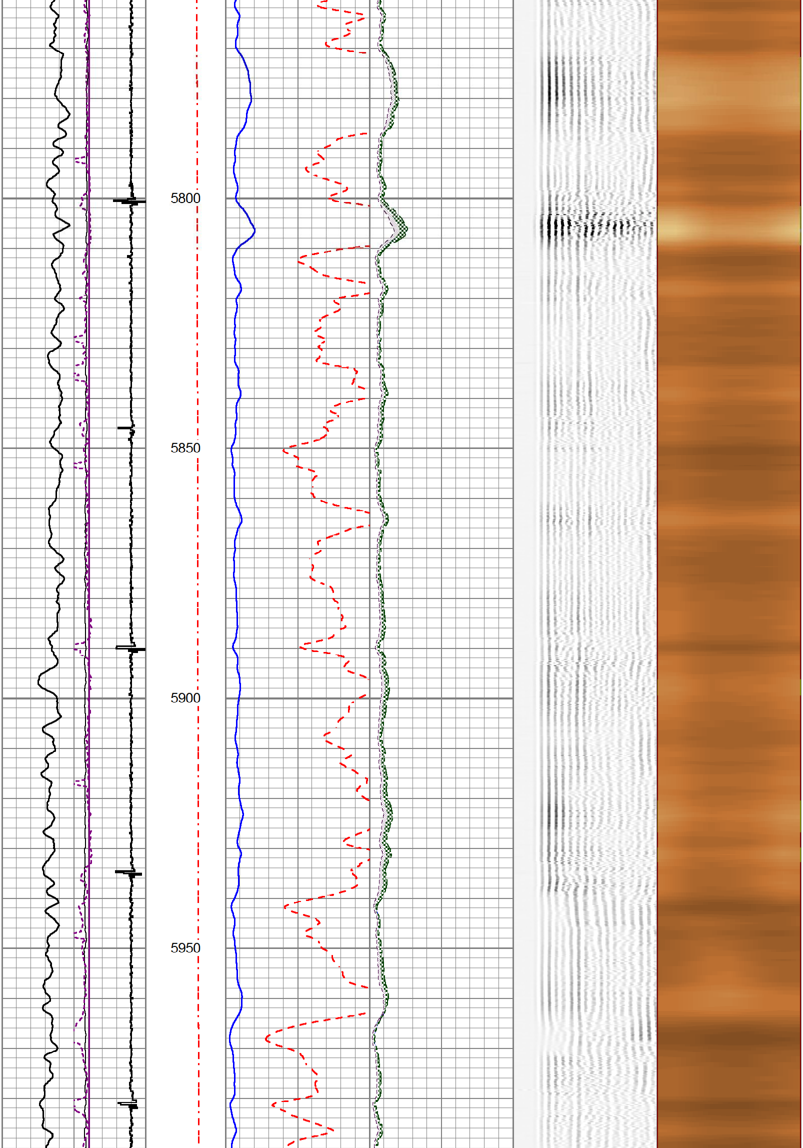
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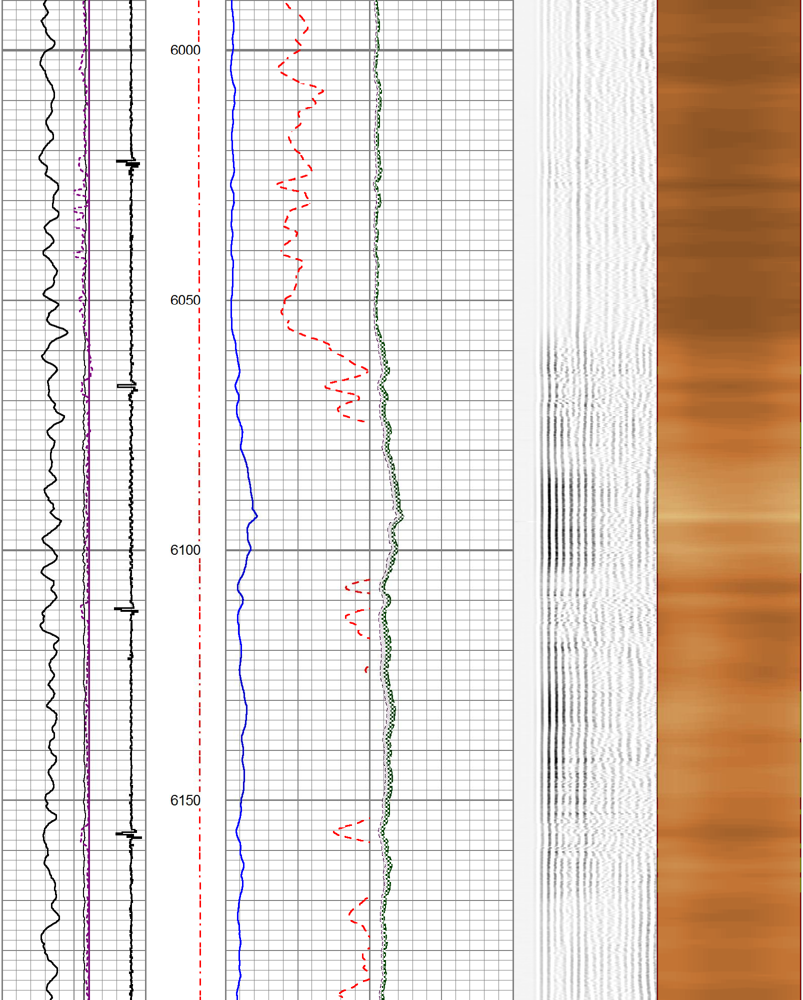
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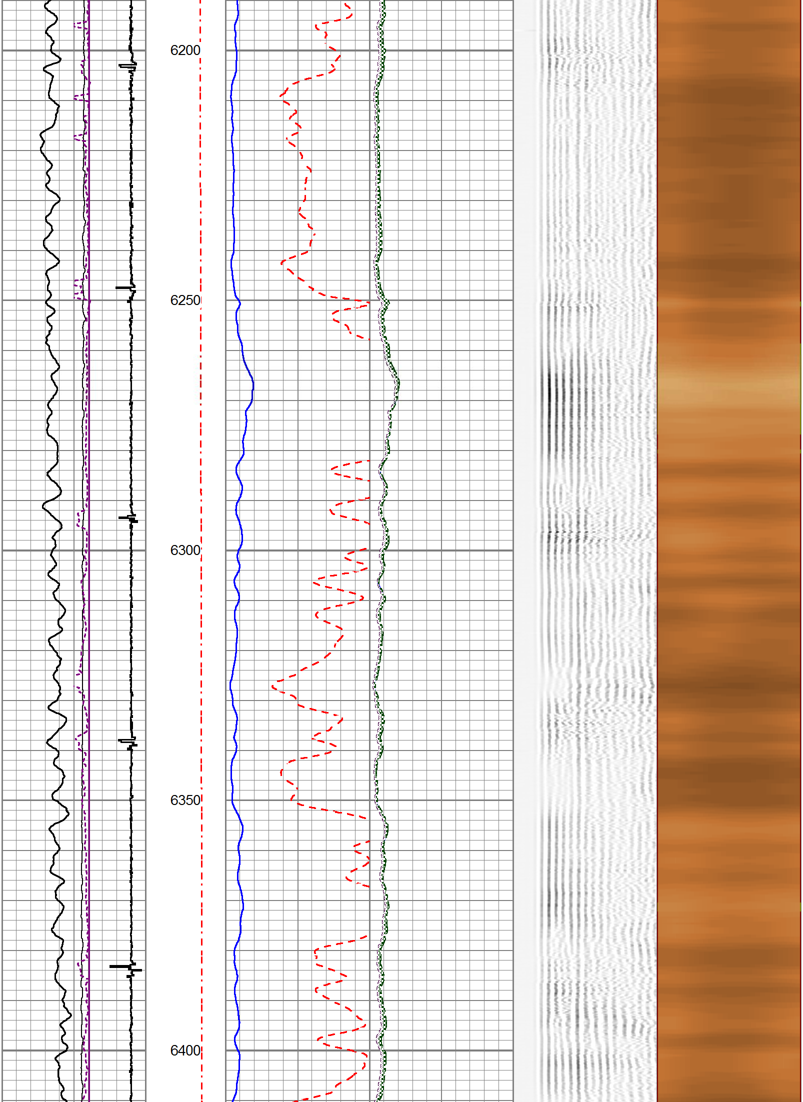
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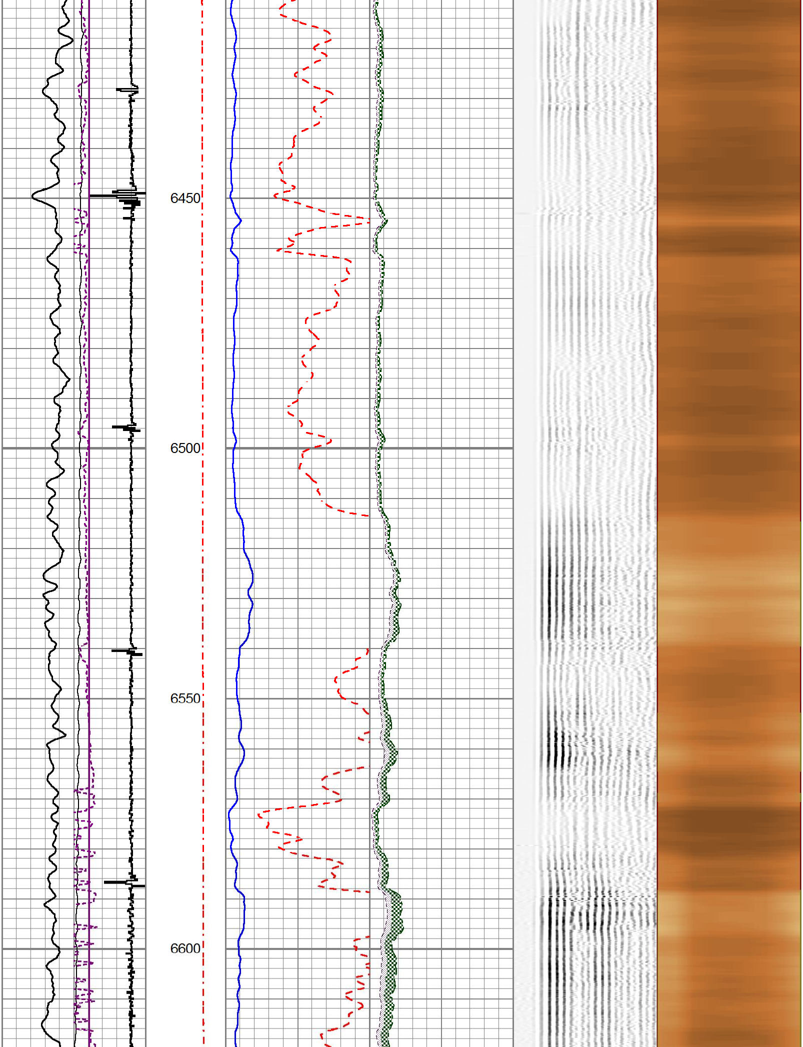
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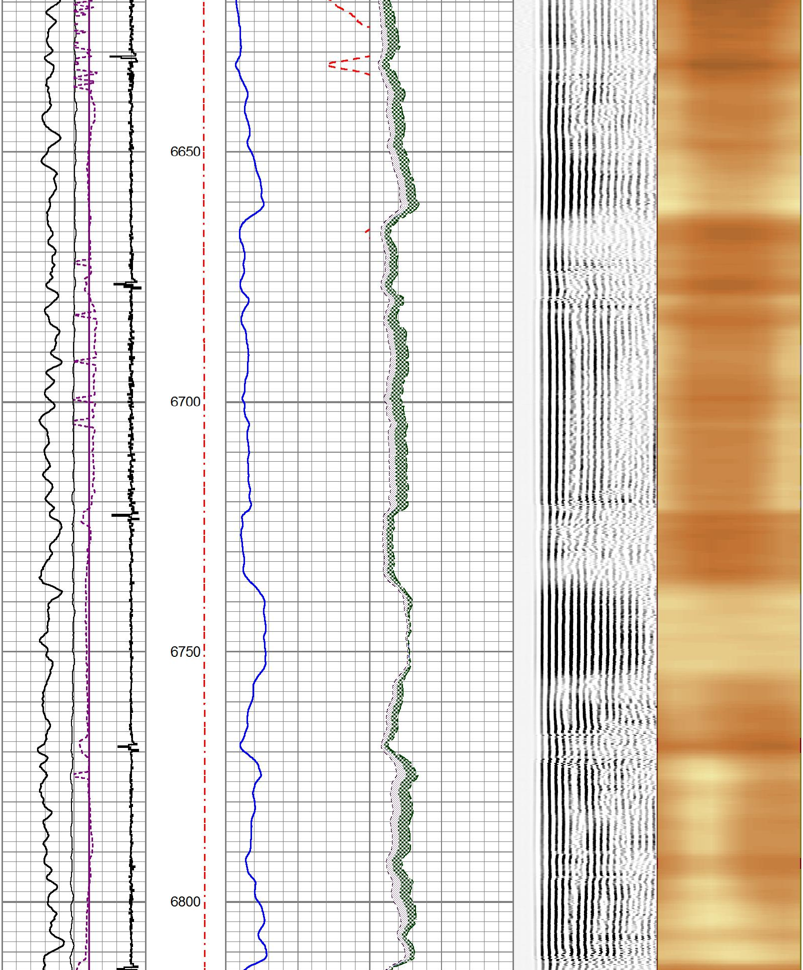
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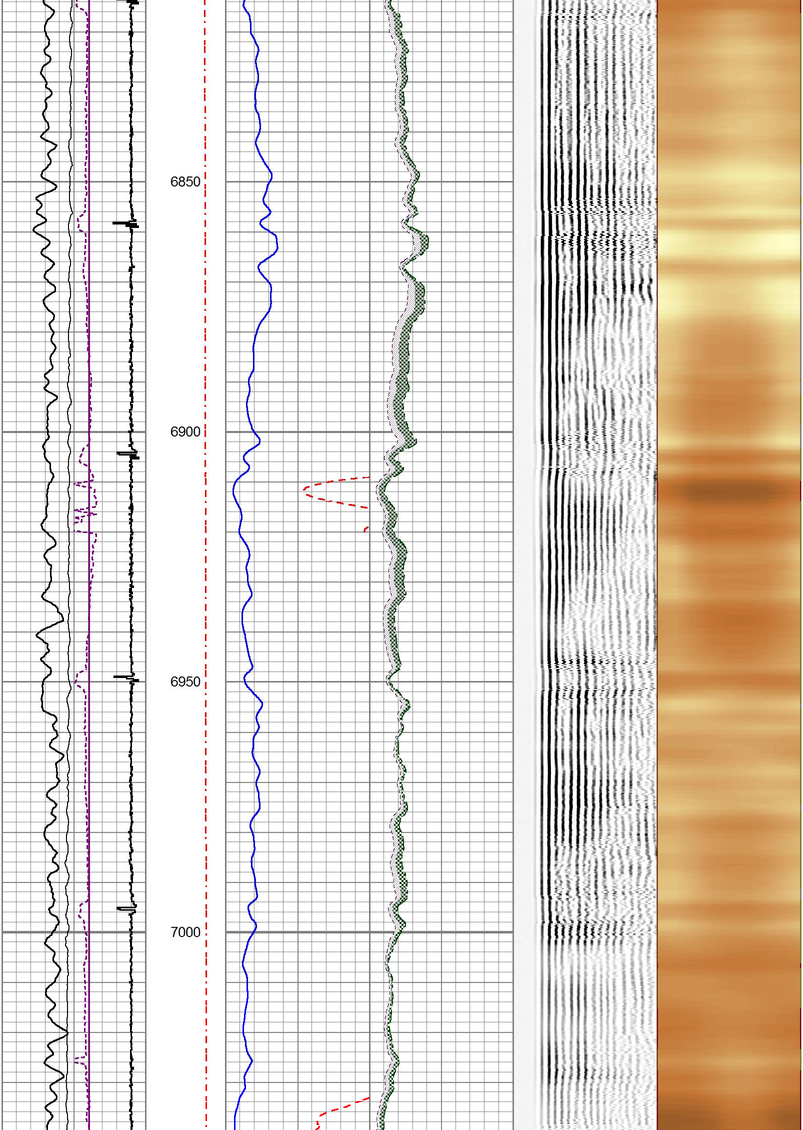
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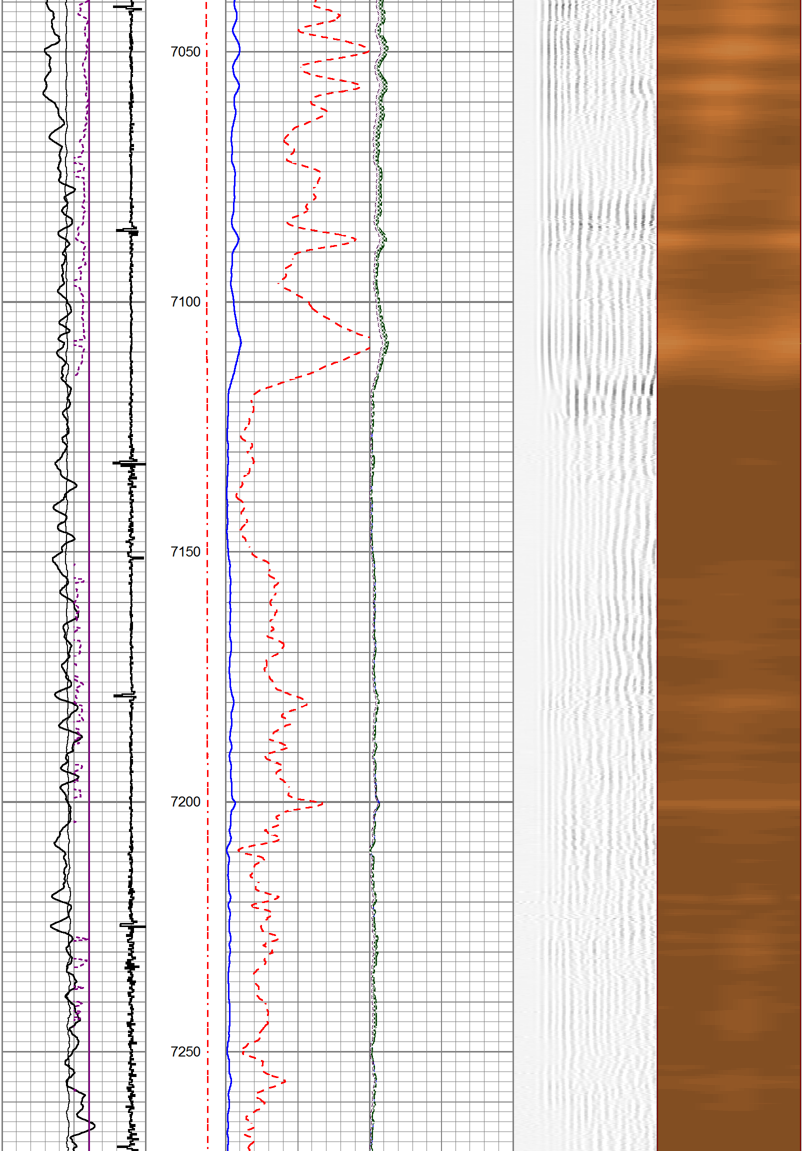
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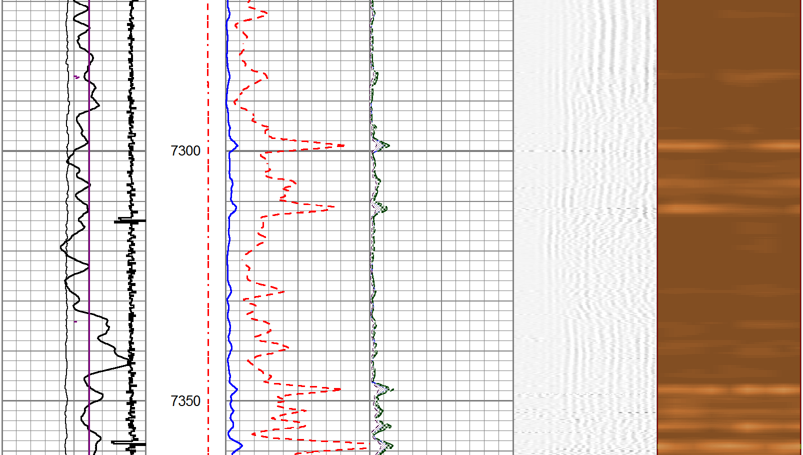
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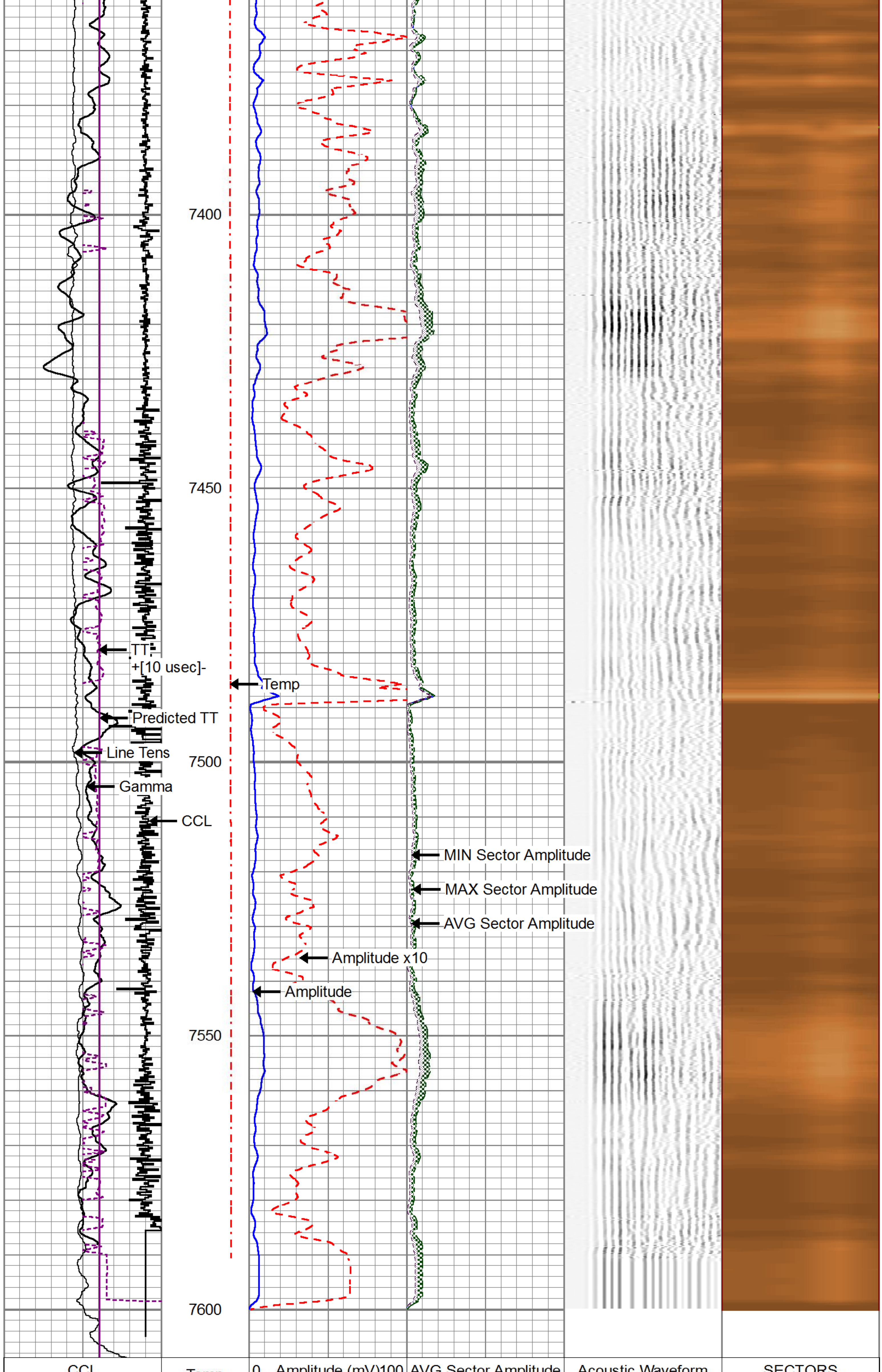

CCL	Temp	0 Amplitude (mV)100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 (usec) 1200	2.1 71.9
0 (GAPI) 200	0 300	0 (mV) 10	MAX Sector Amplitude		
300(Line Tens (lb) 0			0 100		
Predicted TT			MIN Sector Amplitude		
TT +[10 usec]-			0 100		

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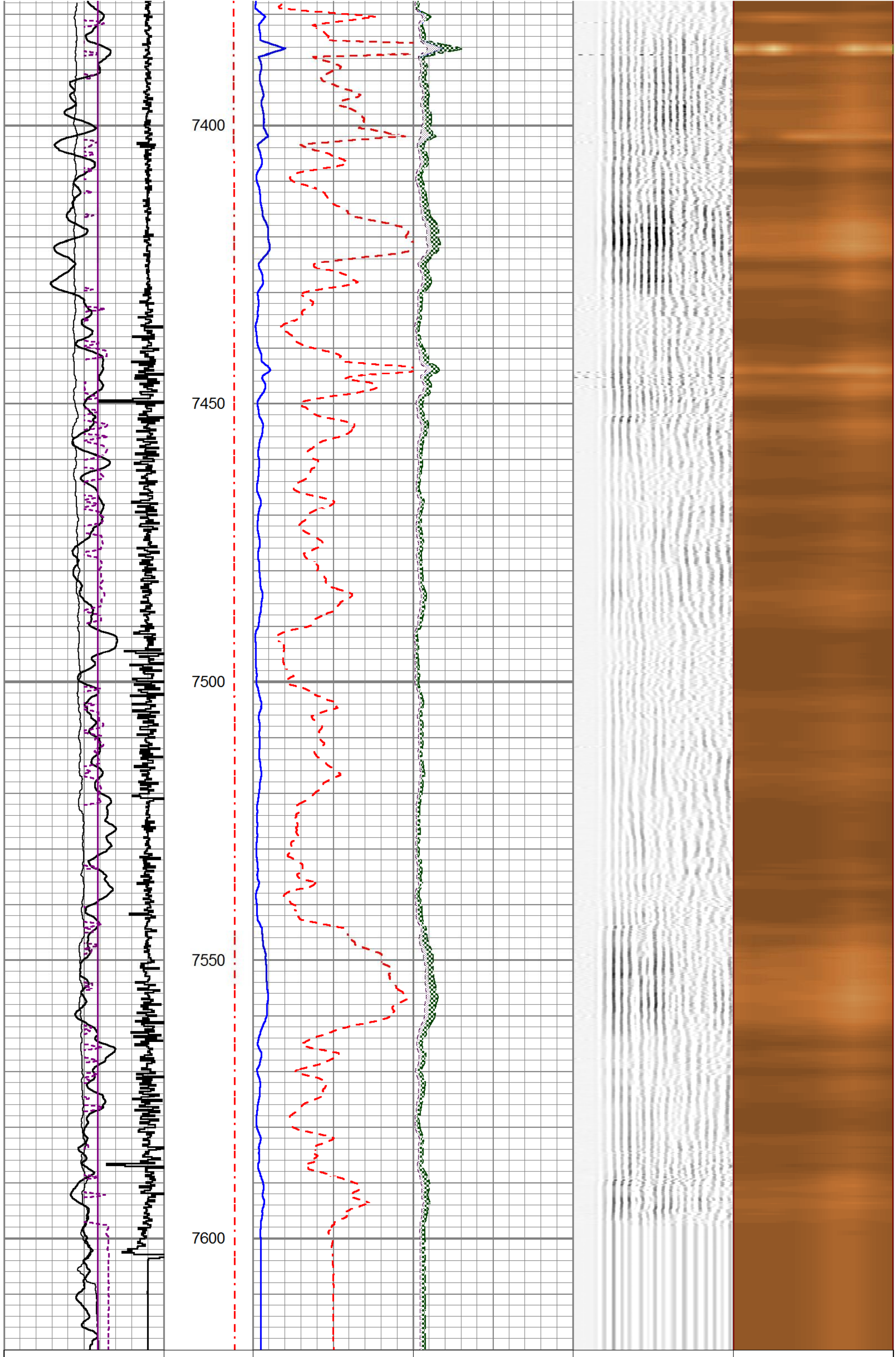
REPEAT PASS - Ran with Zero PSI

5 in / 100 ft

Database File 20210208_extraction_wake north fed 33w-25-20_cbl\20210208_extraction_wake north fed 33w-25-20_cbl.
Dataset Pathname pass2.1
Presentation Format rcbl_8s
Dataset Creation Mon Feb 08 16:09:13 2021
Charted by Depth in Feet scaled 1:240

CCL	Temp	0 Amplitude (mV)100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 (usec) 1200	2.1 71.9
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		



CCL	Temp	0 Amplitude (mV)100	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma	(degF)	Amplitude x10	0 100	200 (usec) 1200	2.1 71.9
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:\data\20210208_extraction_wake north fed 33w-25-20_cbl\20210208_extraction_wake north fed 33w-25-2
Dataset Pathname pass3.1
Dataset Creation Mon Feb 08 16:08:09 2021

Segmented Cement Bond Log Calibration Report

Serial Number: 10986068
Tool Model: 004

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.001	1.036	0.000	72.000	69.534	-0.057
5FT	-0.005	0.994	0.000	72.000	72.111	0.352
S1	-0.002	0.899	0.000	72.000	79.898	0.157
S2	-0.001	0.904	0.000	72.000	79.605	0.051
S3	-0.001	0.908	0.000	72.000	79.273	0.057
S4	-0.001	0.895	0.000	72.000	80.398	0.041
S5	-0.001	0.885	0.000	72.000	81.222	0.117
S6	-0.001	0.884	0.000	72.000	81.403	0.062
S7	-0.001	0.885	0.000	72.000	81.266	0.066
S8	-0.001	0.896	0.000	72.000	80.291	0.060

Temperature Calibration Report

Serial Number: 10423788
Tool Model: 016
Performed: Mon Oct 23 09:12:26 2017

Point #	Reading		Reference	
1	13660.00	cps	76.44	degF
2	18336.00	cps	105.42	degF
3	29949.00	cps	176.58	degF
4	41746.00	cps	246.92	degF
5	53713.00	cps	319.91	degF
6	59545.00	cps	354.38	degF
7		cps		degF
8		cps		degF
9		cps		degF
10		cps		degF

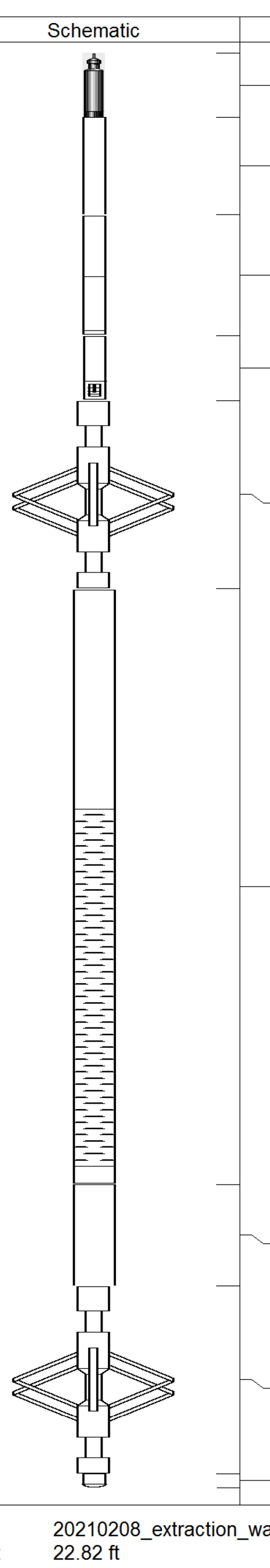
Gamma Ray Calibration Report

Serial Number: 10645565
Tool Model: 020
Performed: Mon Oct 23 09:02:38 2017

Calibrator Value: 400.0 GAPI

Background Reading: 18.1 cps
Calibrator Reading: 470.8 cps

Sensitivity: 0.8835 GAPI/cps



Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			CableHead-TitanConeType2	1.03	1.44	3.60
			XTU-011 (10598522)	1.54	1.69	2.76
GR	18.82		PGR-020 (10645565)	1.92	1.69	9.50
TEMP	17.42		PRT-016 (10423788)	1.04	1.69	5.20
			PRC-020/022 6 Arm	2.99	2.38	21.40
CBLROT WVFS8 WVFS7 WVFS6 WVFS5 WVFS4 WVFS3 WVFS2 WVFS1 WVF3FT WVF5FT CBLTEMP	9.95 9.95 9.95 9.95 9.95 9.95 9.95 9.95 9.95 9.95 8.95 4.82		RBT-004 (10986068)	9.48	3.13	140.00
CCL	3.72		CCL-028 (11318280) 3 1/8	1.61	3.13	36.00
HVOLTX ITEMPX TSTAMP LOCTIM UTCTIM	0.00 0.00 0.00 0.00 0.00		PRC-020/022 6 Arm	2.99	2.38	21.40
			BUL-006	0.22	1.69	1.20

Dataset: 20210208_extraction_wake north fed 33w-25-20_cbl.db: field/well/run1/pass3.1
Total length: 22.82 ft
Total weight: 241.06 lb
O.D.: 3.13 in

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Company	Extraction Oil an Gas Inc.
Well	Wake North Fed 33W-25-20
Field	Wattenburg
County	Weld
State	Colorado
Country	U.S.A.