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CEMENT BOND LOG

Company	Extraction Oil and Gas, Inc.
Well	Lind 26W-30-6N
Field	Wattenberg
County	Weld
State	Colorado

Company Extraction Oil and Gas, Inc.
Well Lind 26W-30-6N
Field Wattenberg
County Weld State Colorado
API #: 05 123 48231
Location: NE/NE 393 FNL 821 FEL
Other Services
SEC: 26 TWP: 7N RGE: 67W
Elevation K.B. 4972 D.F. 4971 G.L. 4947

Permanent Datum: Ground Level Elevation: 4947
Log Measured From: Kelly Bushing , 25 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	09 June 2019
Run Number	One
Plug Back T.D. Driller	----
Plug Back T.D. Logger	----
Bottom Logged Interval	7585
Top Log Interval	Surface
Type Fluid	Water
Density / Viscosity	----
Max Recorded Temp.	222
Time Logger on Bottom	09:30
Equipment Number	GD 170
Location	Casper
Recorded By	GS Yarbro
Witnessed By	Colby Hansen

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

<<< Fold Here >>>

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 # : RM0719PCBW496
Your Crew Today: Kennicker, Aguirre, Cheesman
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	60
40 % Bond	60
60 % Bond	60
80 % Bond	1650
100 % Bond	1650

Comments

Estimated Top of Cement
(60 % Bond Index) at 60 feet

Thank you for using Gyrodata
Eric Regnier: Rocky Mountain Wireline Manager EricR@Gyrodata.com

Log Variables

Databased:\warrior\data\20190709_extraction_lind 26w-30-6n\20190709_extraction_lind 26w-30-6n
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	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	233	0

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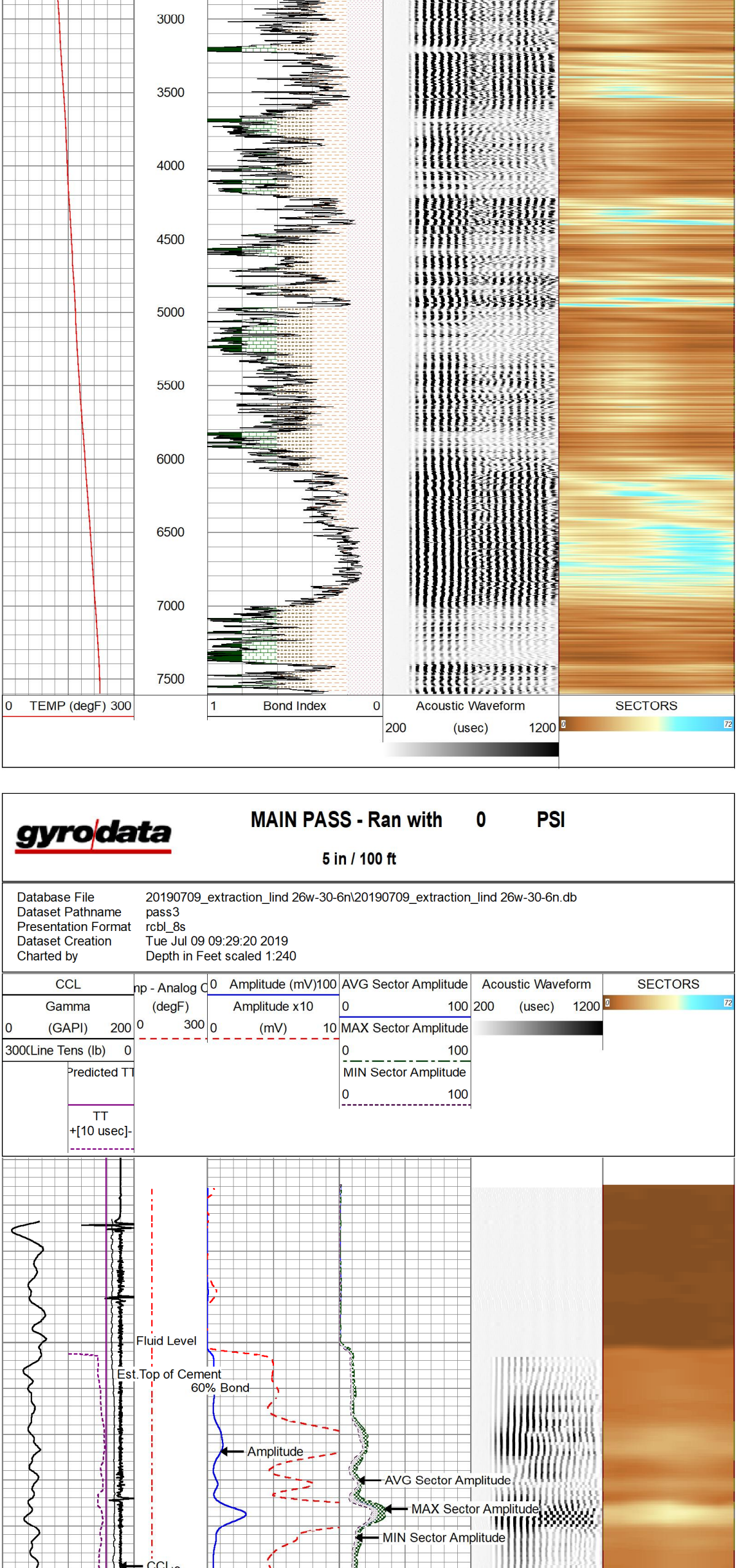
BOND INDEX

Calculated for 3000 PSI Compressive Strength Cement

Database File 20190709_extraction_lind 26w-30-6n\20190709_extraction_lind 26w-30-6n.db
Dataset Pathname ./././bndindx
Presentation Format BNDIND~1
Dataset Creation Tue Jul 09 10:37:41 2019
Charted by Depth in Feet scaled 1:7500



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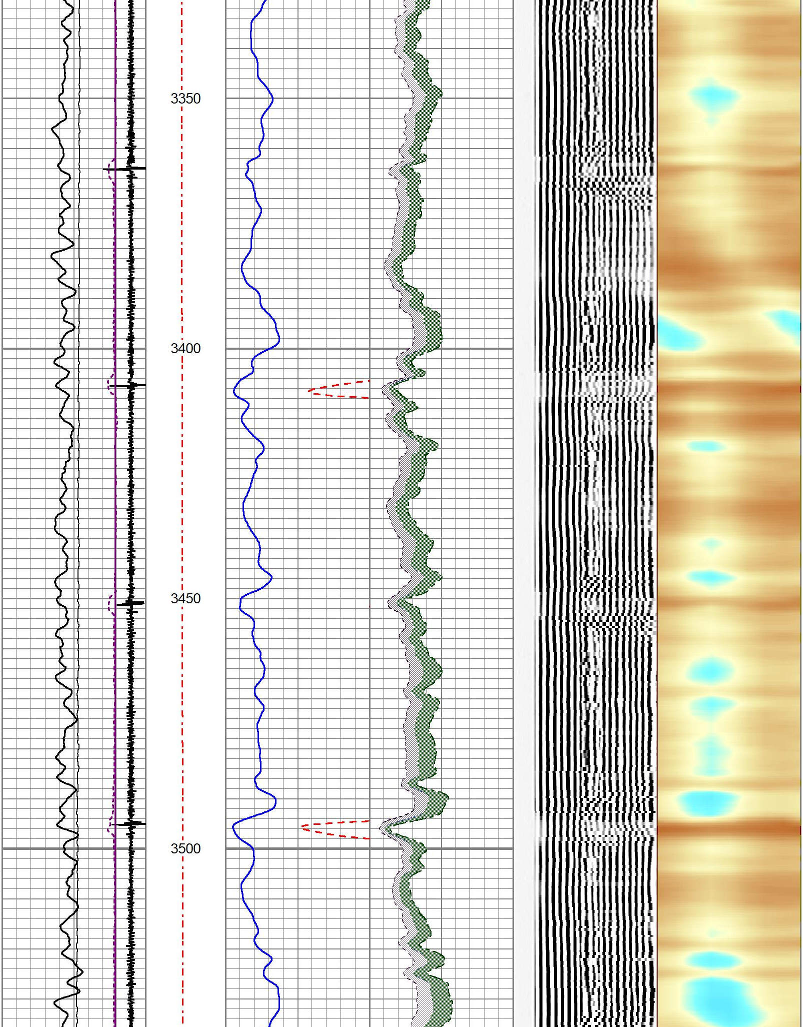
MAIN PASS - Ran with 0 PSI

5 in / 100 ft

Database File 20190709_extraction_lind 26w-30-6n\20190709_extraction_lind 26w-30-6n.db
Dataset Pathname pass3
Presentation Format rcbl_8s
Dataset Creation Tue Jul 09 09:29:20 2019
Charted by Depth in Feet scaled 1:240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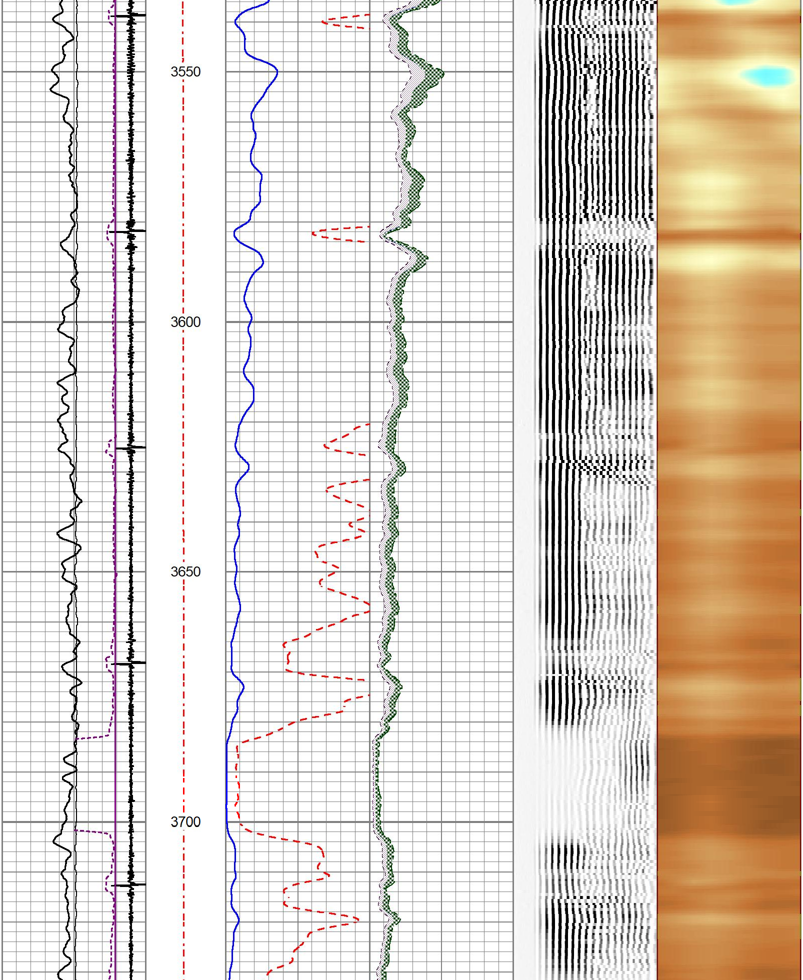
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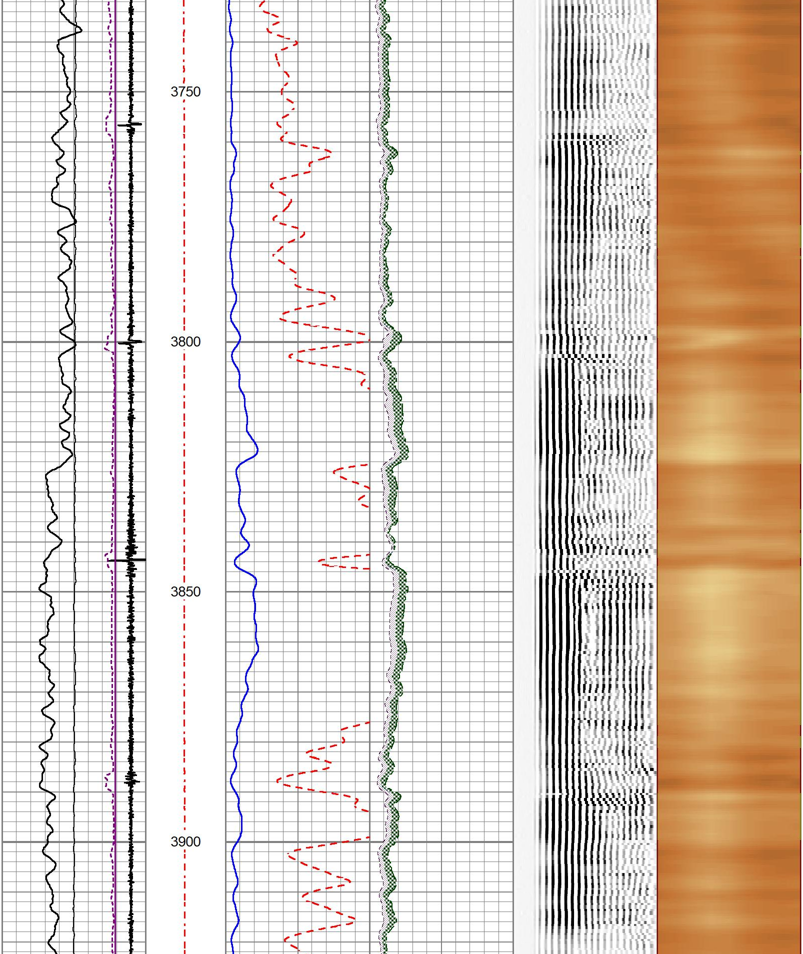
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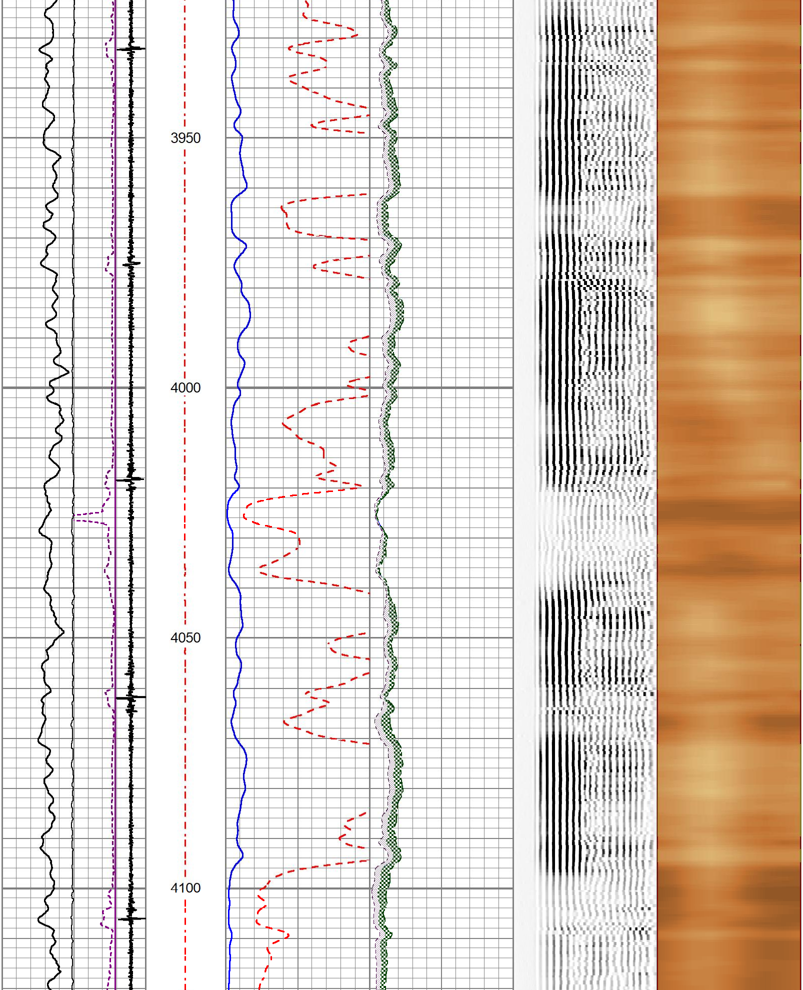
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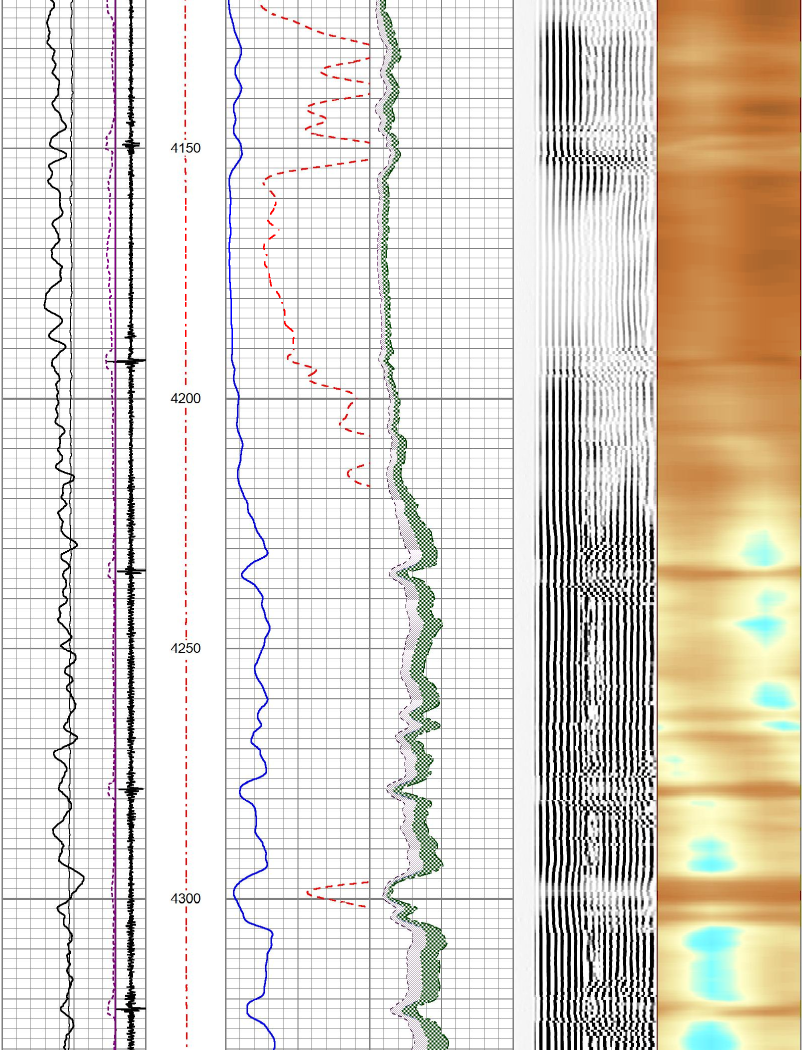
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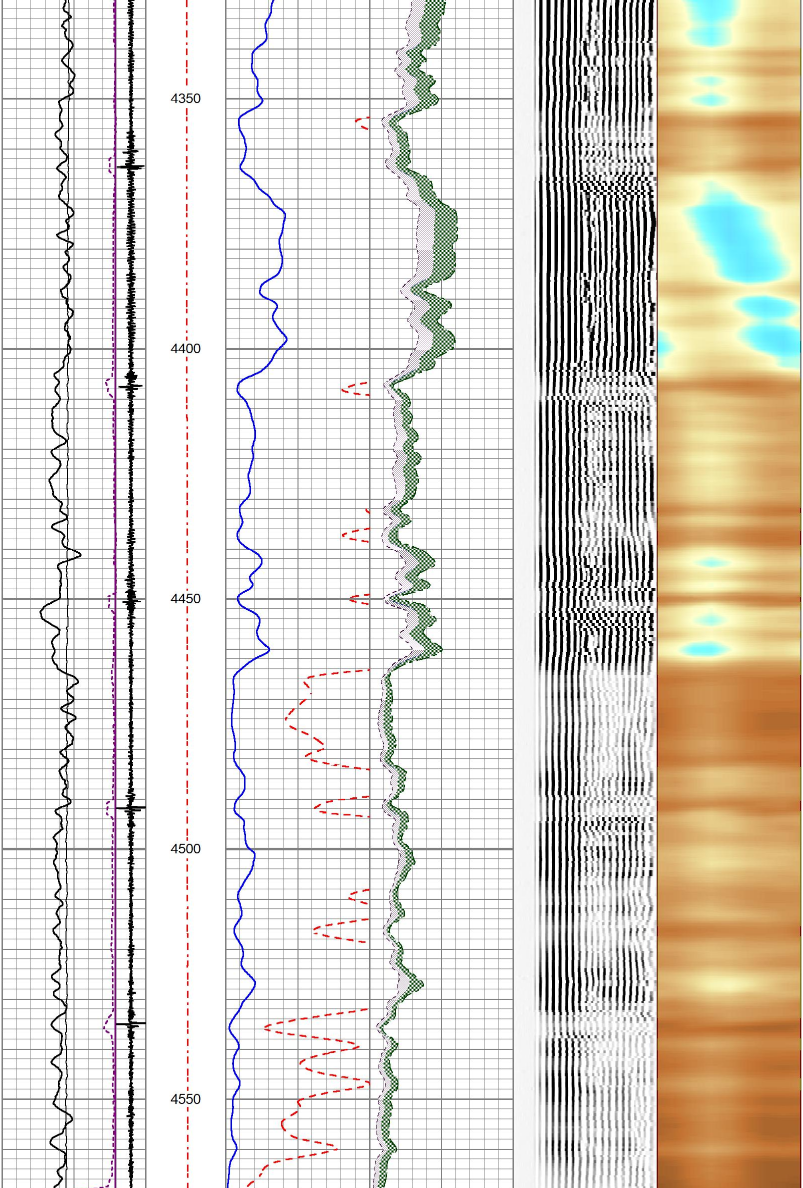
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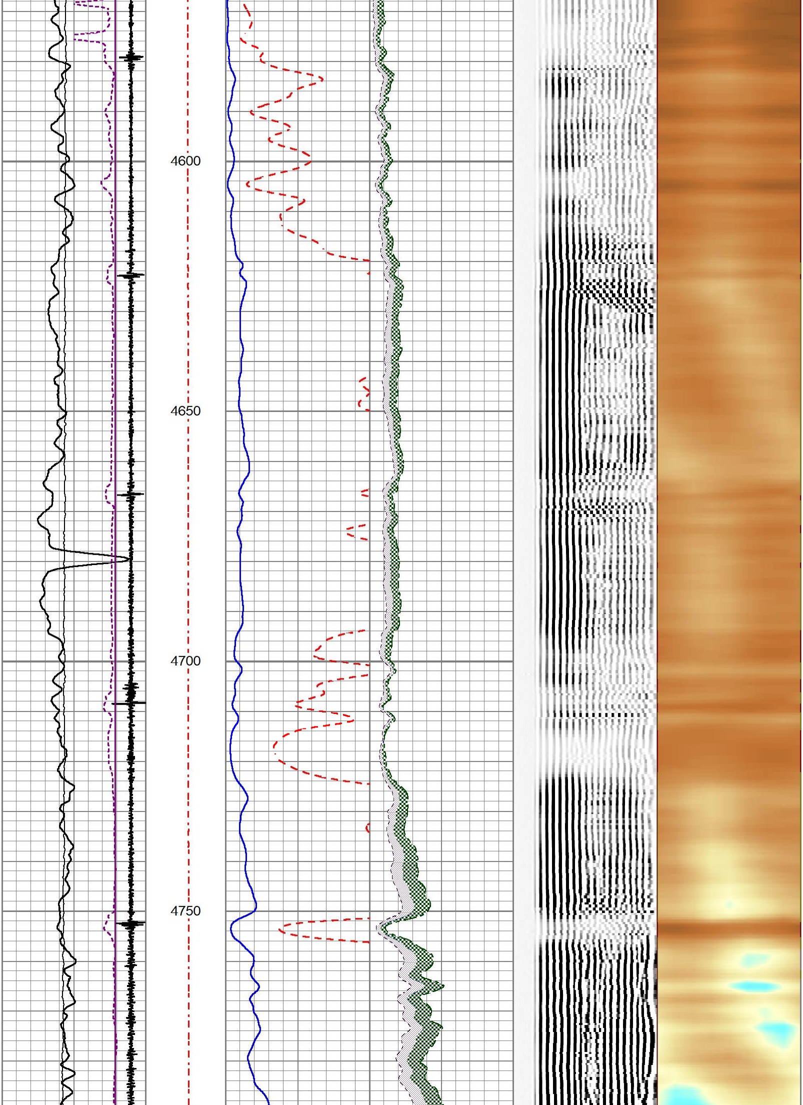
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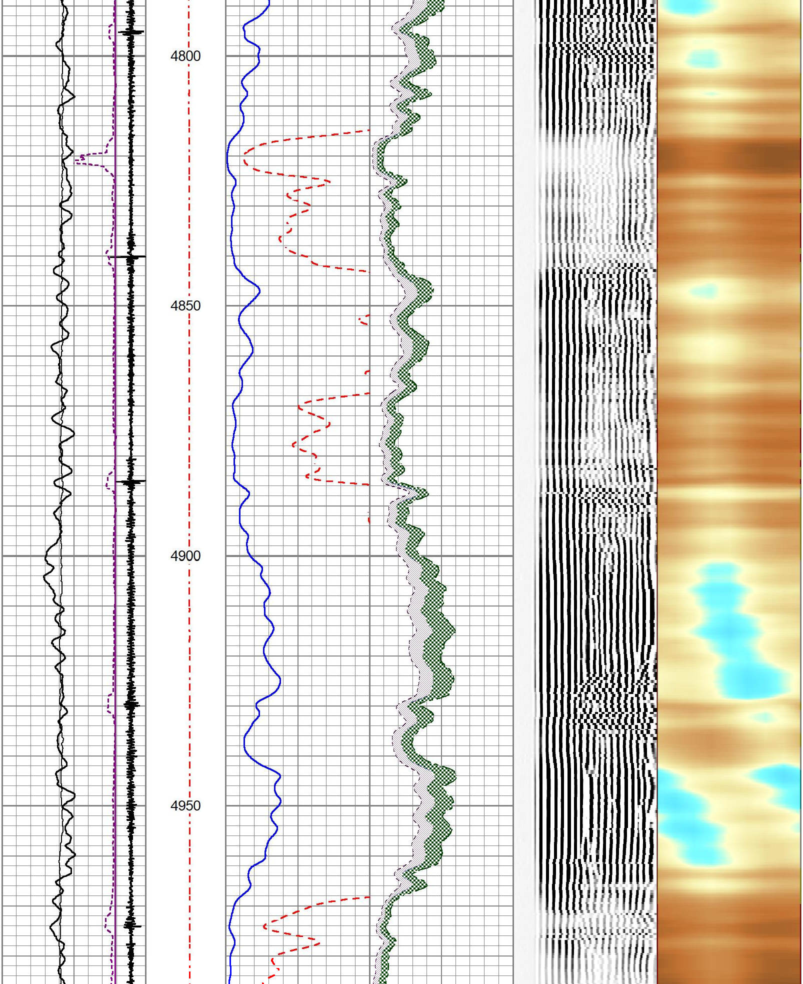
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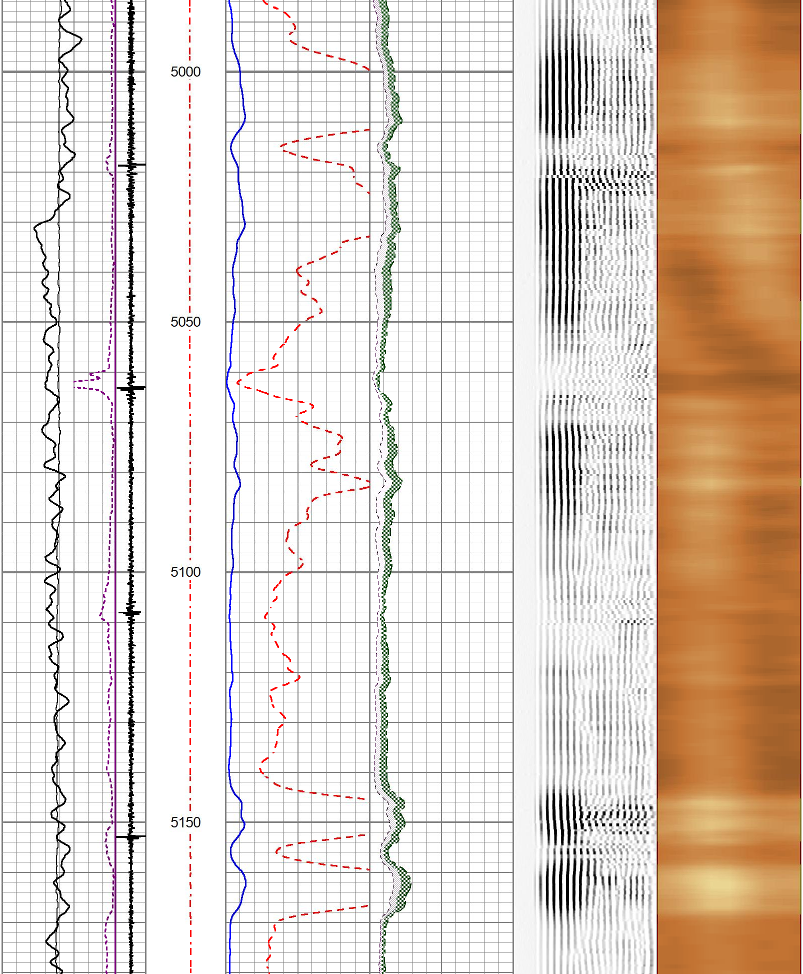
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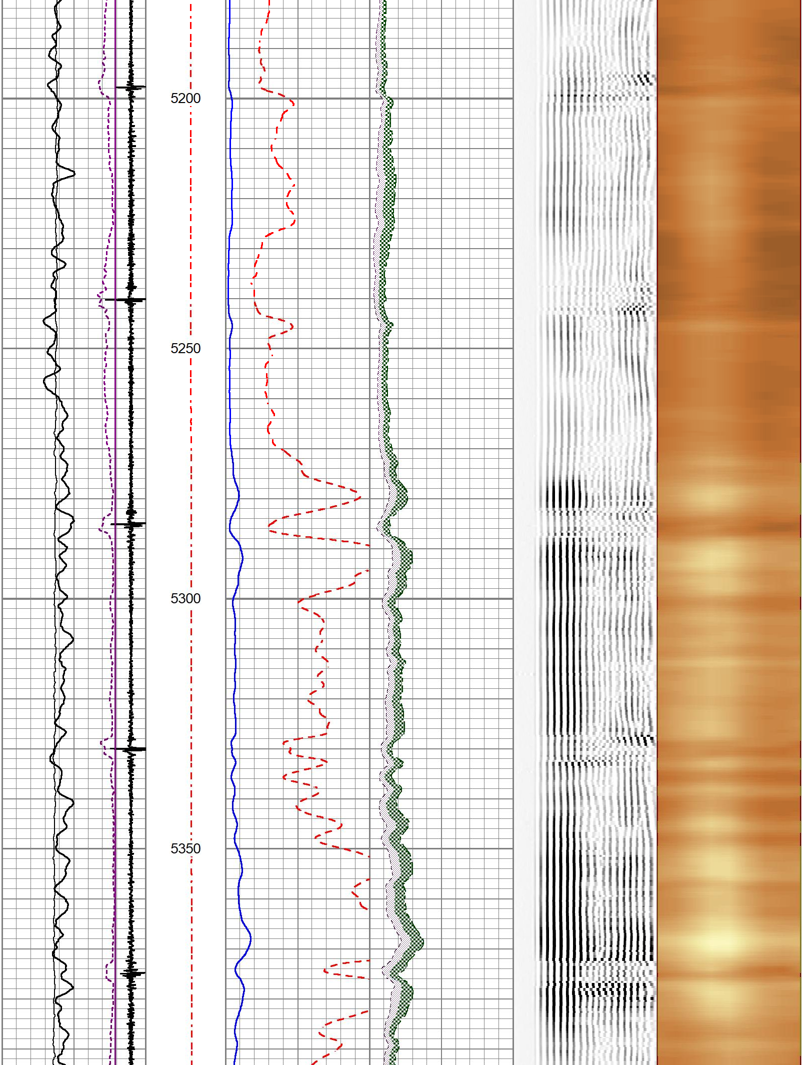
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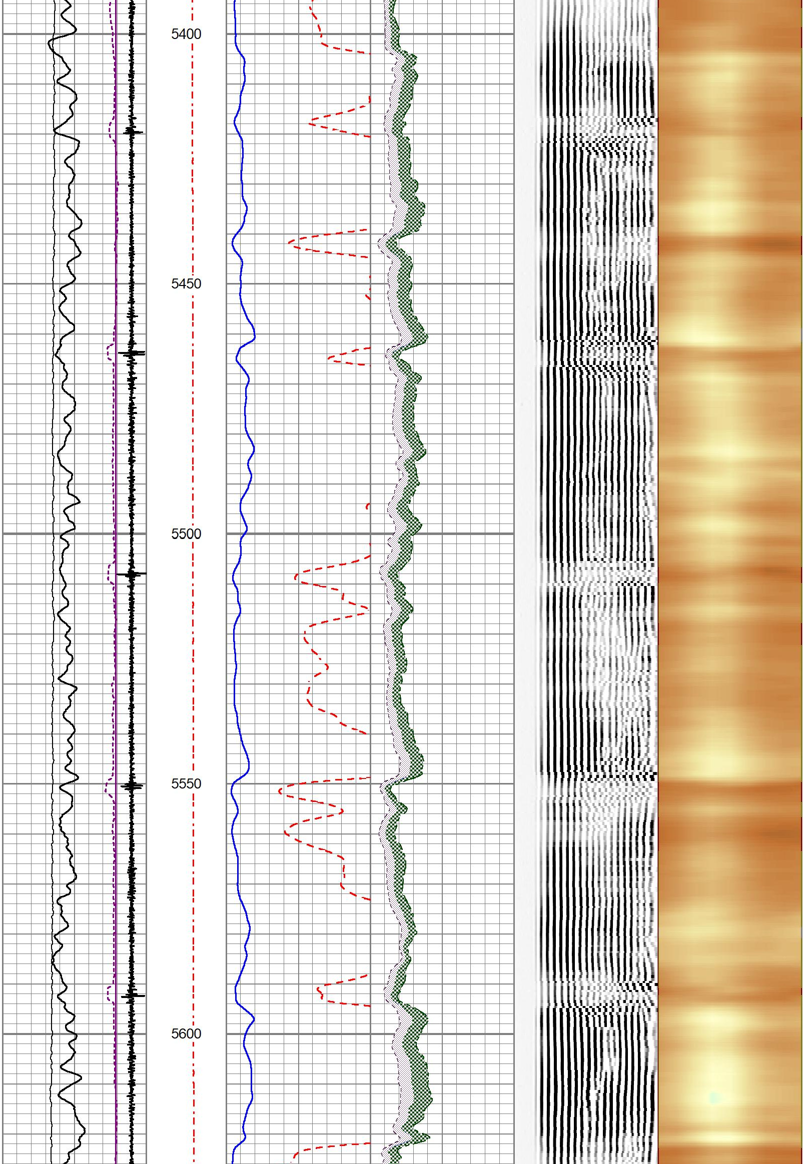
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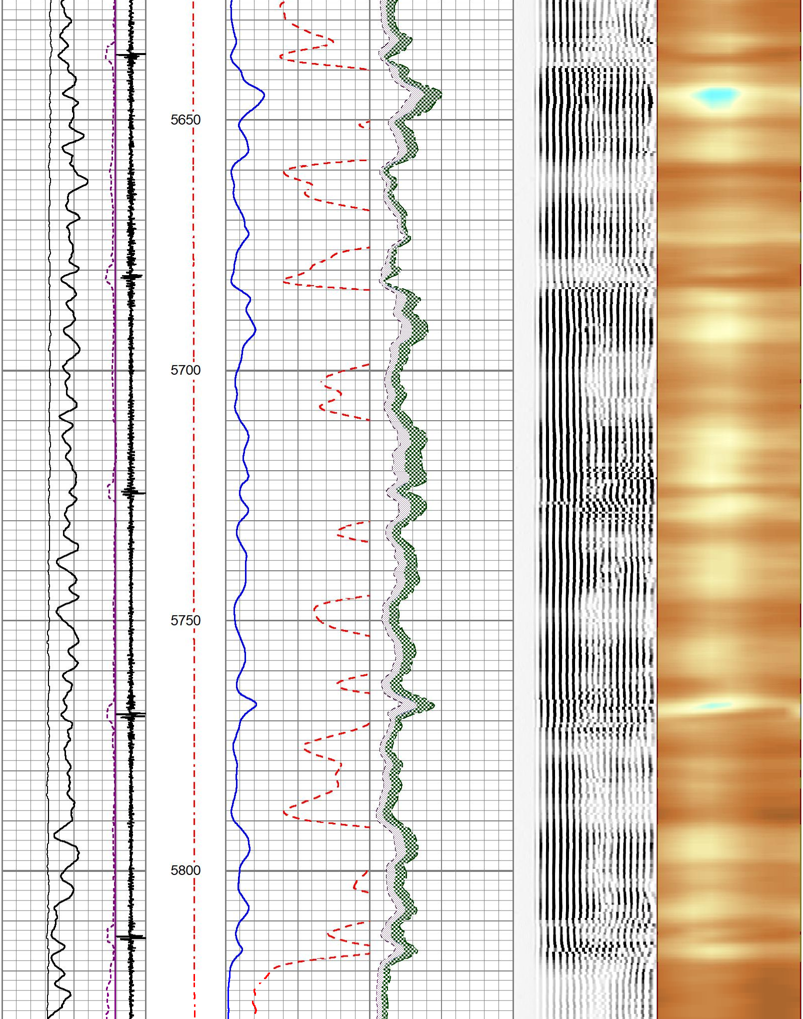
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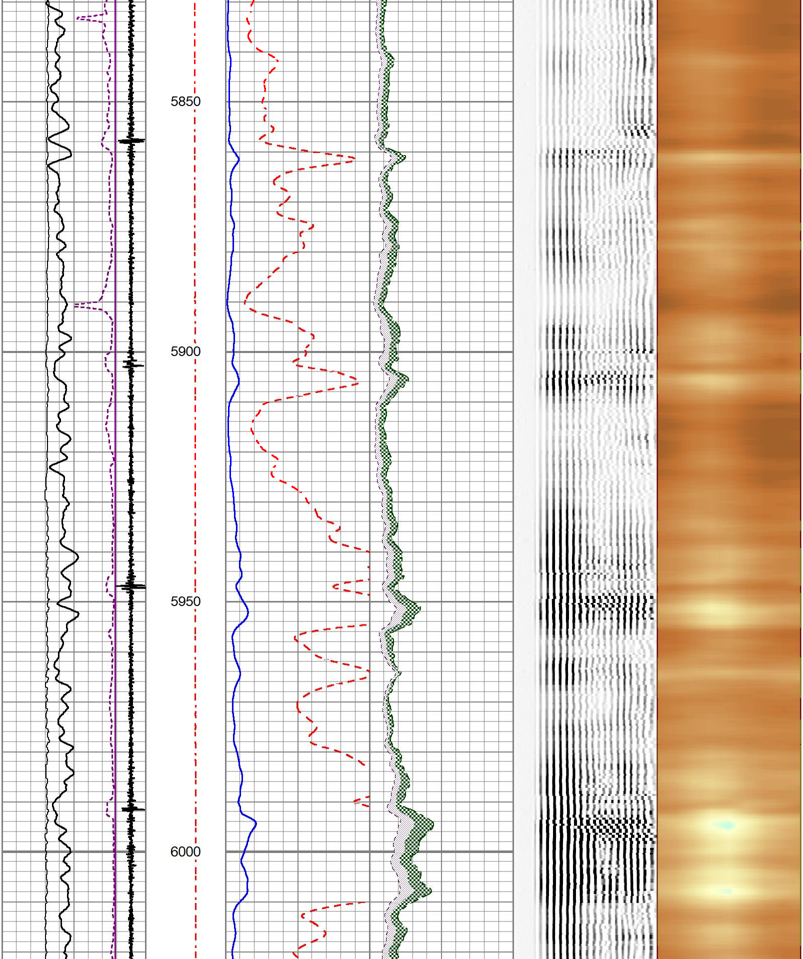
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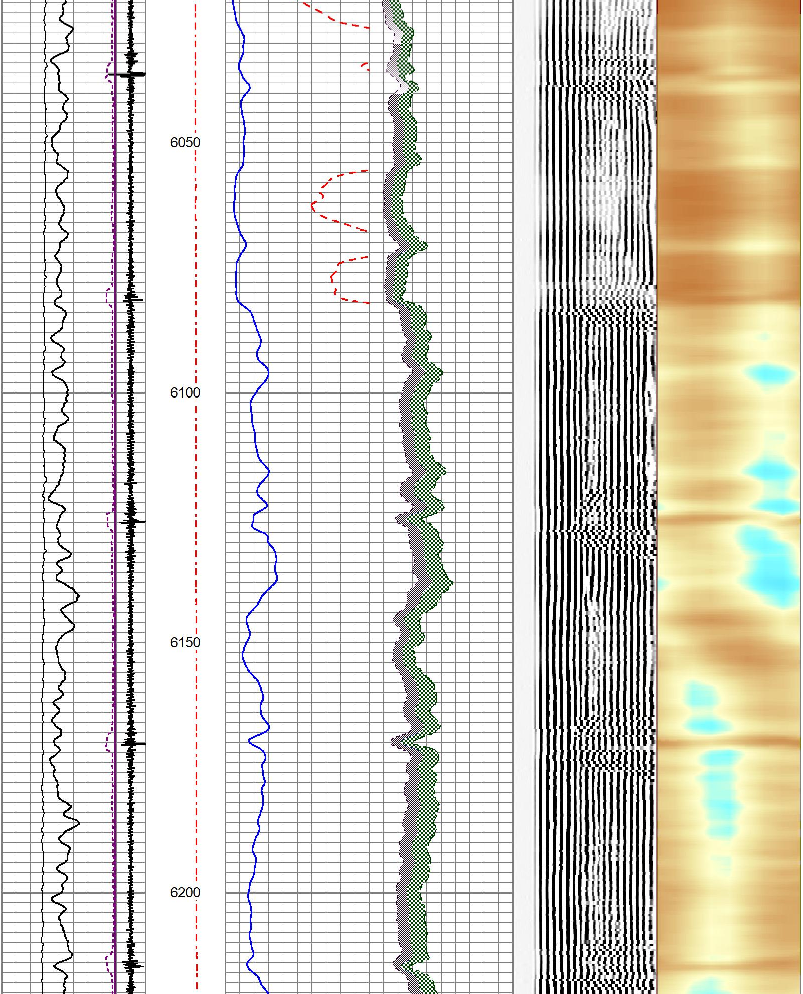
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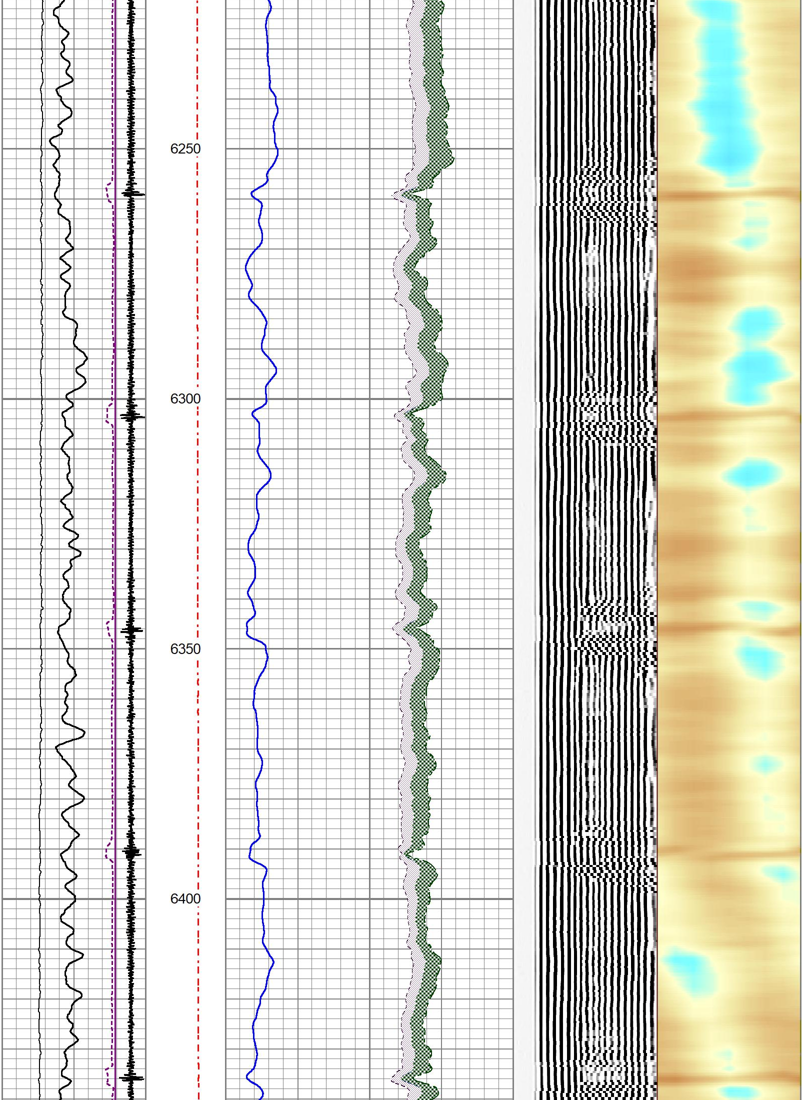
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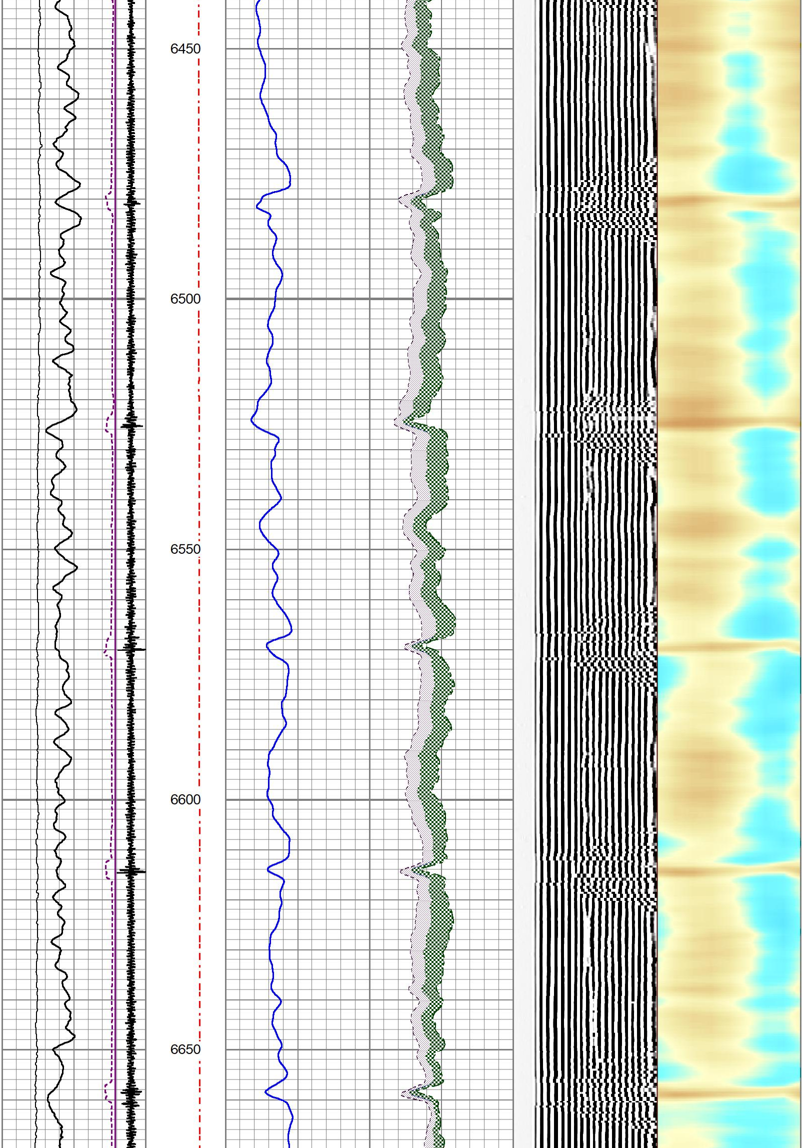
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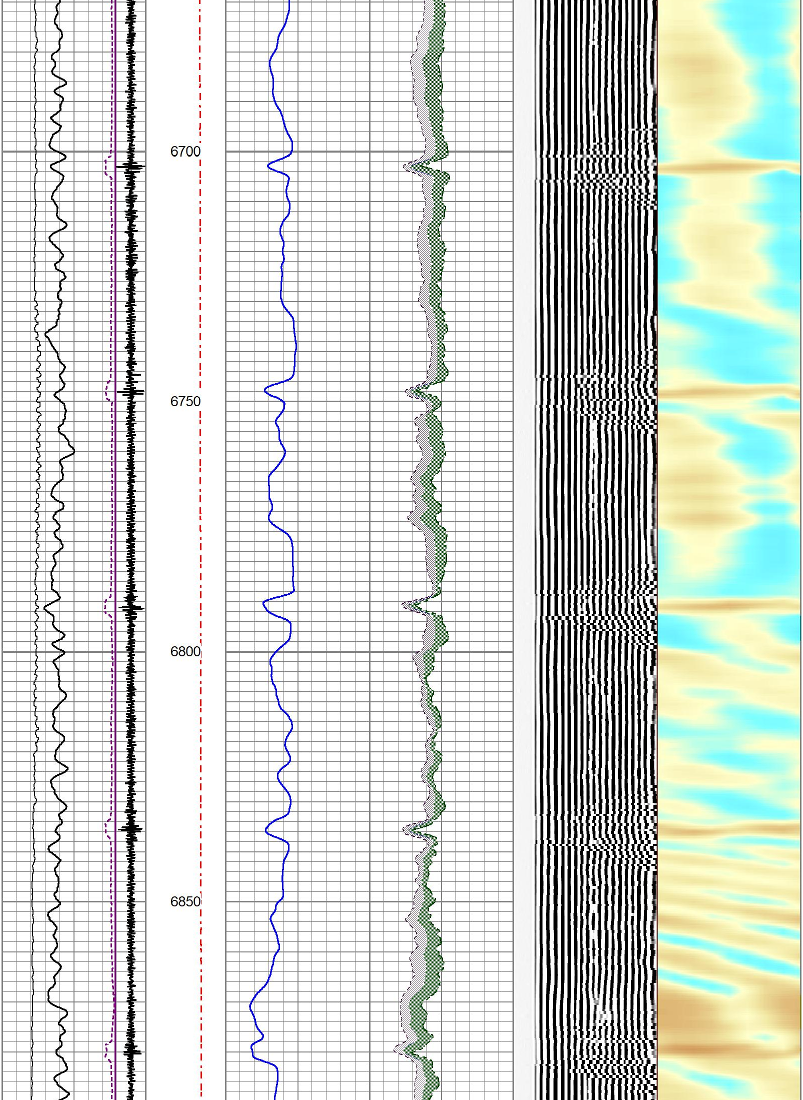
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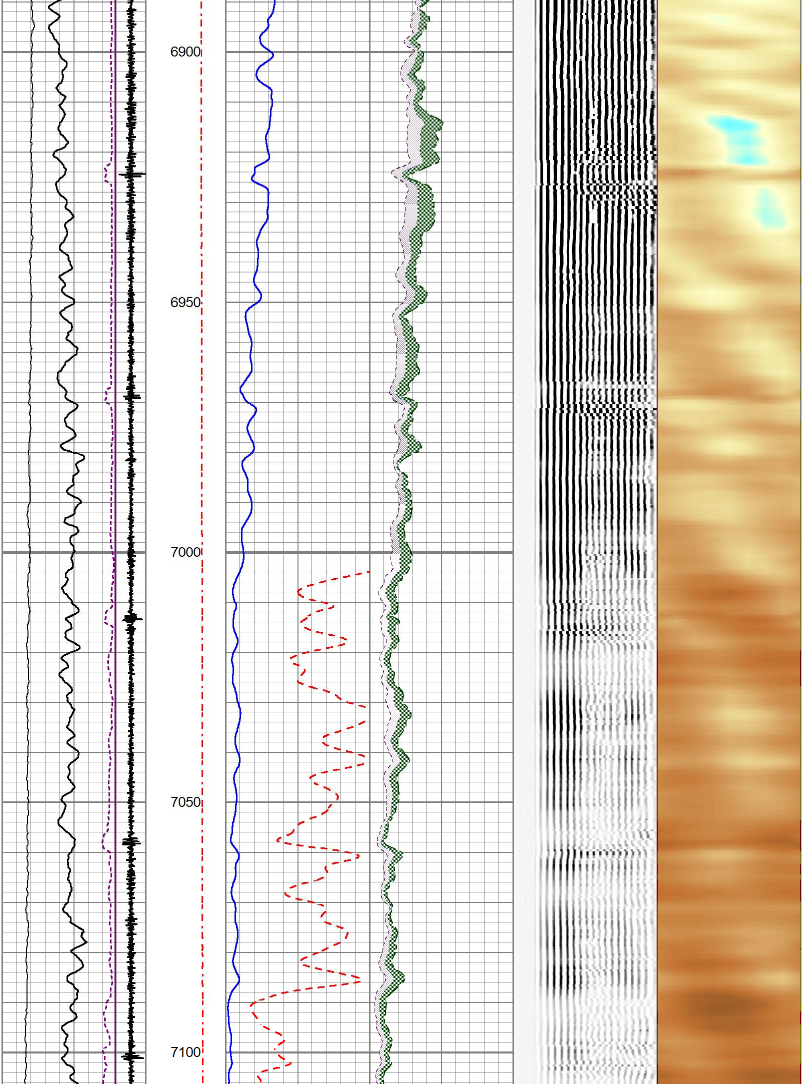
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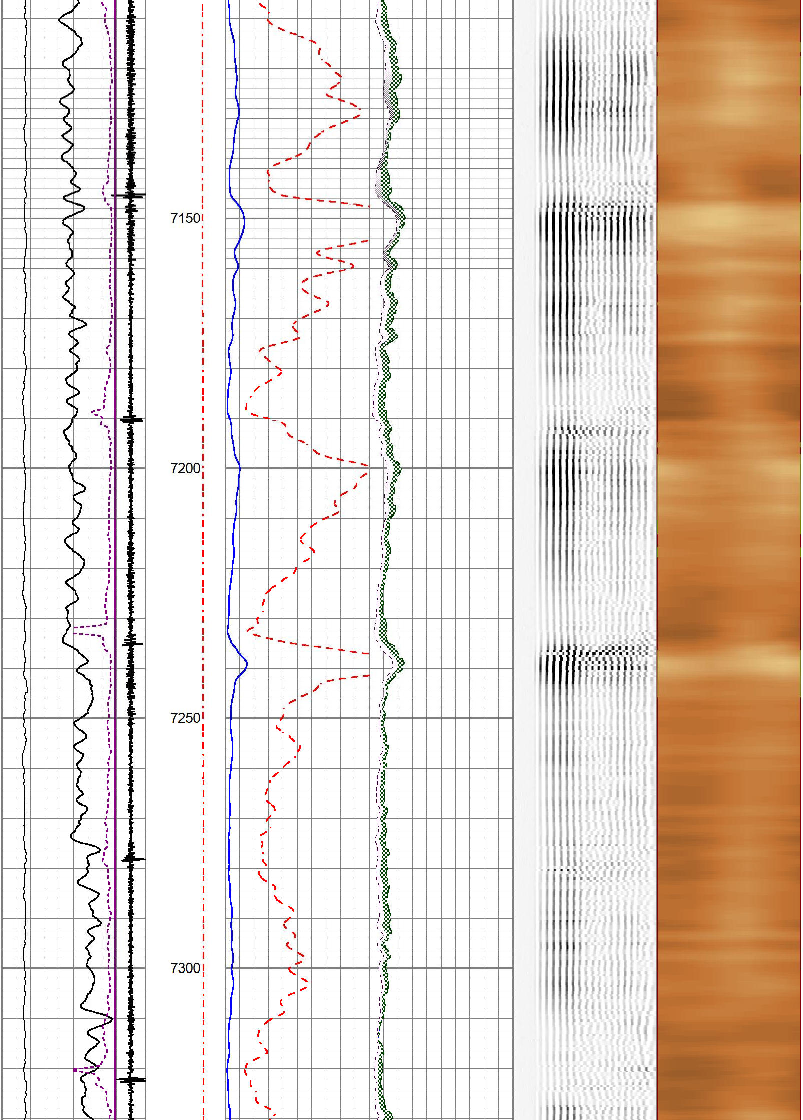
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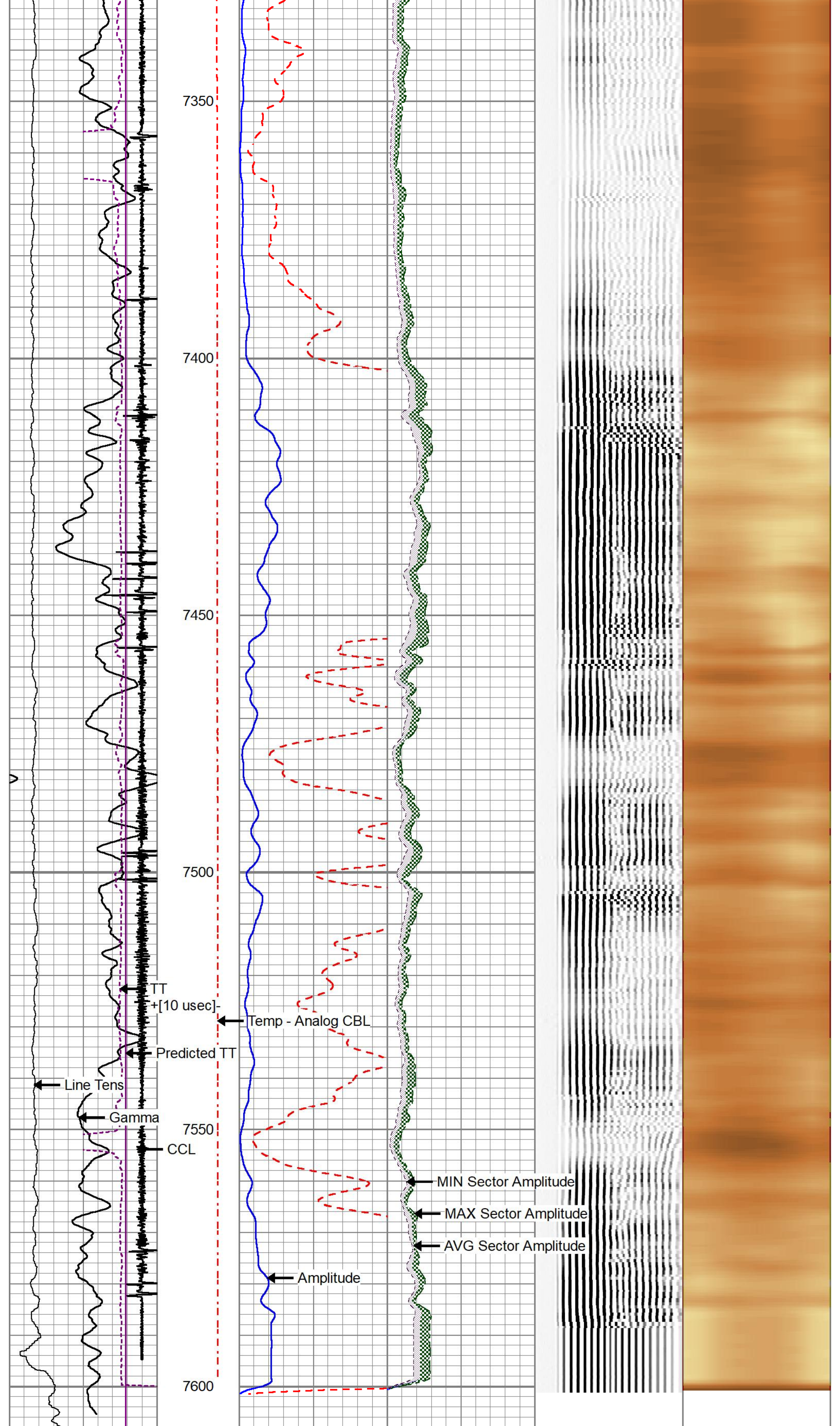

CCL	Temp - Analog CBL	Amplitude (mV)	AVG Sector Amplitude	Acoustic Waveform	SECTORS
Gamma 0 (GAPI) 200	(degF) 0 300	0 Amplitude (mV) 100 Amplitude x10 0 (mV) 10	0 100 MAX Sector Amplitude 0 100 MIN Sector Amplitude 0 100	200 (usec) 1200	0 72
300 Line Tens (lb) 0					
Predicted TT					
TT +[10 usec]					

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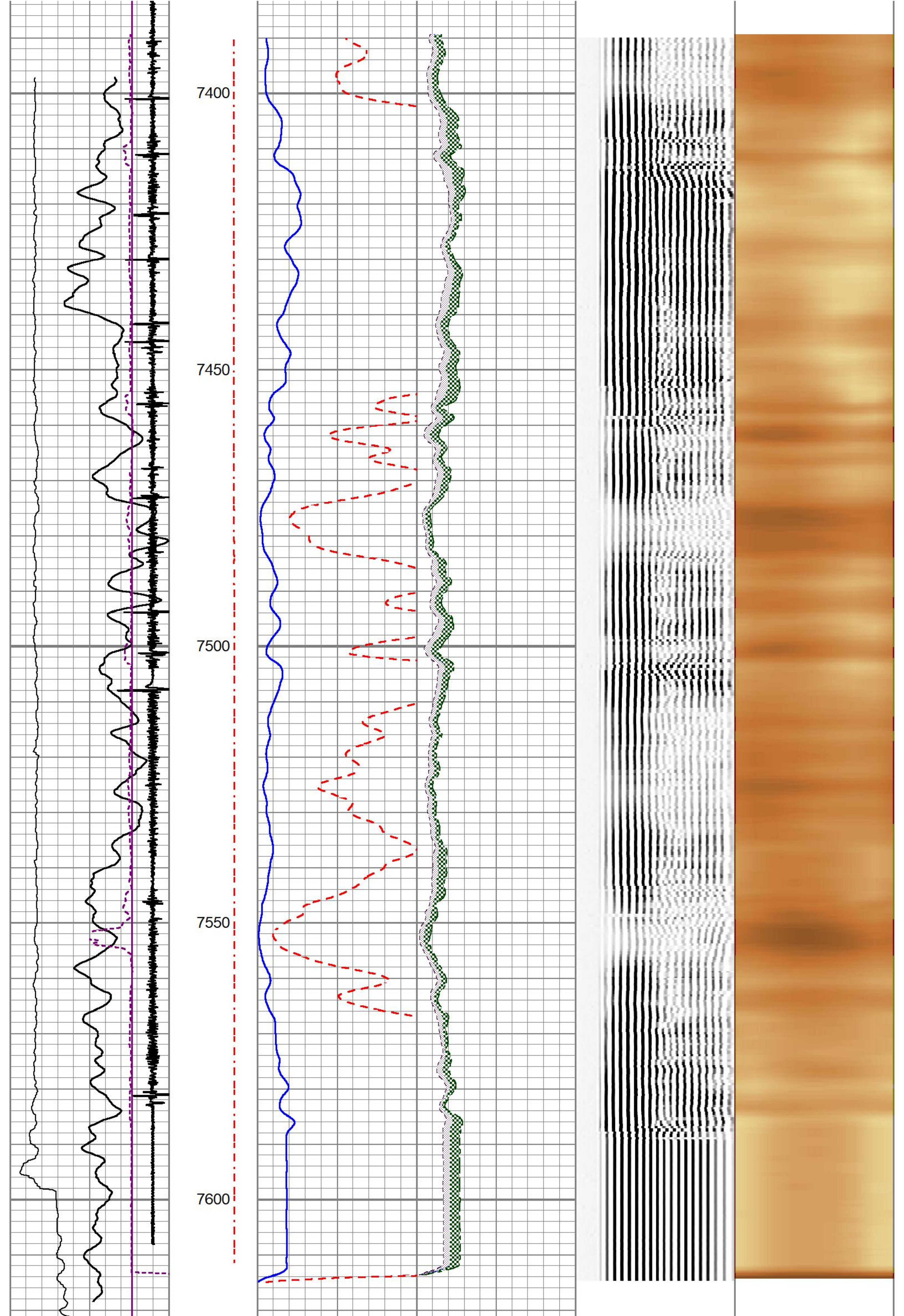
REPEAT PASS - Ran with 0 PSI

5 in / 100 ft

Database File 20190709_extraction_lind 26w-30-6n\20190709_extraction_lind 26w-30-6n.db
Dataset Pathname pass2
Presentation Format rcbl_8s
Dataset Creation Tue Jul 09 09:25:44 2019
Charted by Depth in Feet scaled 1:240

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



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

Calibration Report

Database File d:\warrior\data\20190709_extraction_lind 26w-30-6n\20190709_extraction_lind 26w-30-6n.db
Dataset Pathname pass3
Dataset Creation Tue Jul 09 09:29:20 2019

Gamma Ray Calibration Report

Serial Number: ISHV2-03
Tool Model: 2 3/4" TekCo
Performed: Thu Apr 25 10:34:21 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: 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	1.925	0.000	71.921	37.337	0.034
CAL	-0.004	0.746				
5'	-0.000	1.961	0.000	71.921	36.671	0.000
SUM						
S1	0.015	2.206	0.000	72.000	32.856	-0.494
S2	0.018	2.256	0.000	72.000	32.177	-0.575
S3	0.019	2.213	0.000	72.000	32.804	-0.607
S4	0.021	2.257	0.000	72.000	32.203	-0.674
S5	0.021	2.291	0.000	72.000	31.720	-0.661
S6	0.018	2.309	0.000	72.000	31.418	-0.554
S7	0.014	2.309	0.000	72.000	31.363	-0.424
S8	0.010	2.232	0.000	72.000	32.406	-0.330

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):

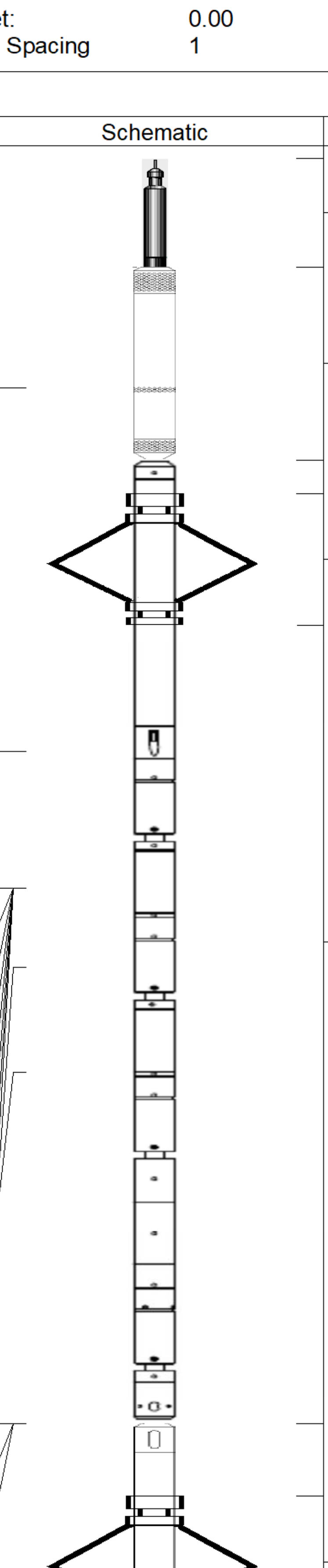
	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Temperature Calibration Report

Serial Number: IRB34-03
Tool Model: 2 3/4" RIB Analog
Performed: Wed Jan 30 14:38:18 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)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			CableHead-TitanConeType2	1.03	1.44	3.60
CCL	13.50		CCL_Log-2 3/4" TekCo (IPSN7-002)	1.83	2.75	33.00
			Antelope-Overbody	1.25	2.75	
TEMP	10.05					
WVFS8	8.76					
WVFS7	8.76		RBTA-2 3/4" RIB Analog (IRB34-03)	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: 20190709_extraction_lind 26w-30-6n.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, Inc.		
Well	Lind 26W-30-6N		
Field	Wattenberg		
County	Weld		
State	Colorado	**Country**	U.S.A.