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CEMENT BOND LOG

Company	ConocoPhillips, Inc.
Well	Prosper Farms 4-65 11-12 3AH
Field	----
County	Arapahoe
State	Colorado

Company ConocoPhillips, Inc.
Well Prosper Farms 4-65 11-12 3AH
Field ----
County Arapahoe **State** Colorado

API # : 05 005 07383
Location:
Lat: 39 43' 3.38"
Lon: -104 38' 20.72"
SEC: 11 TWP: 4S RGE: 65W

Other Services

Elevation
K.B. 5694.7
D.F. 5693.7
G.L. 5668

Permanent Datum: Ground Level Elevation: 5668
Log Measured From: Kelly Bushing , 26.7 ft. above Permanent Datum.
Drilling Measured From: Kelly Bushing

Date	19 July 2019		
Run Number	One		
Plug Back T.D. Driller	----		
Plug Back T.D. Logger	----		
Bottom Logged Interval	7780		
Top Log Interval	Surface		
Type Fluid	Water		
Density / Viscosity	----		
Max. Recorded Temp.	235		
Time Logger on Bottom	13:15		
Equipment Number	GD170		
Location	Casper		
Recorded By	GS Yarbro		
Witnessed By	Mr. Cameron		

Casing Record				Tubing Record			
Size	Weight	From	To	Size	Weight	From	To
9 5/8	36	26.7	2238				
5 1/2	20	26.7	17805				

<<< 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 # : RM0719PCBW520
Your Crew Today: Baker, Kennicker, Lev
Log Correlated to: Marker Joint @ 6853.9

Cement Data	
Date Cemented	----
Primary / Squeeze	Primary
Type / Weight	----
Main Pass Press.	1000
Repeat Pass Press.	----

Bond Index

Index %	Est Top Depth
20 % Bond	250
40 % Bond	400
60 % Bond	600
80 % Bond	1140
100 % Bond	6975

Comments

Estimated Top of Cement
(20 % Bond Index) at 250 feet

Thank you for using Gyrodata

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

Log Variables

Databased:\warrior\data\20190719_cop_prosper farms 4-65 11-12 3ah_cbl\20190719_cop_prosper
Dataset field/well/run1/pass3.1/_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	233.5	0

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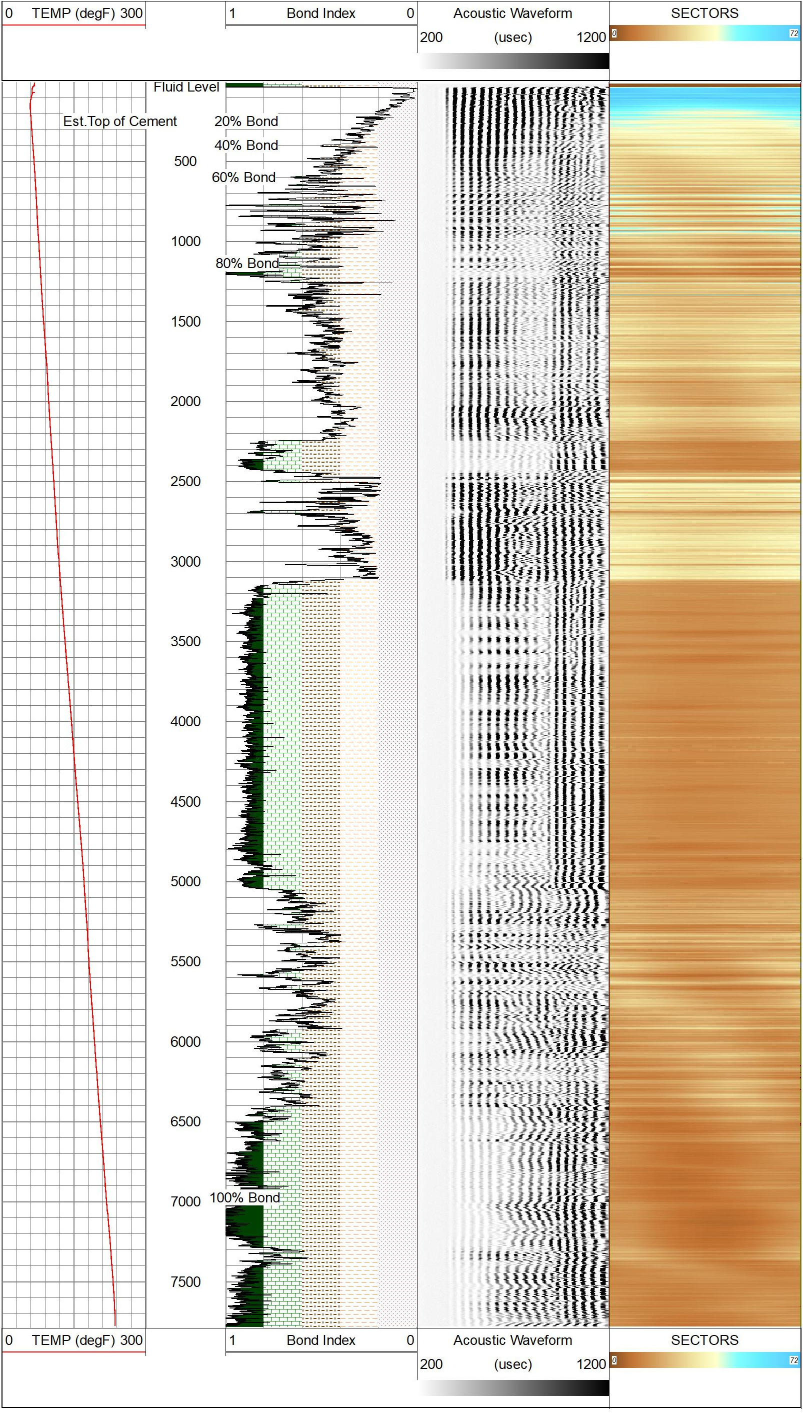
BOND INDEX

Calculated for 3000 PSI Compressive Strength Cement

Database File 20190719_cop_prosper farms 4-65 11-12 3ah_cbl\20190719_cop_prosper farms 4-65 11-12 3ah_cbl.db
Dataset Pathname ./././bndindx
Presentation Format BNDIND~1
Dataset Creation Fri Jul 19 15:22:26 2019
Charted by Depth in Feet scaled 1:7500



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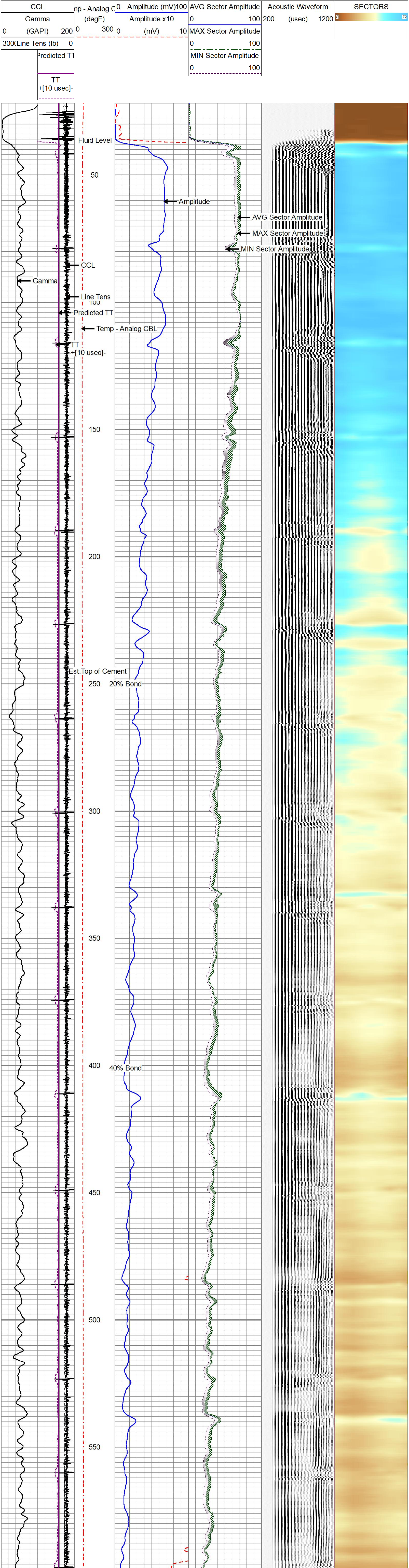
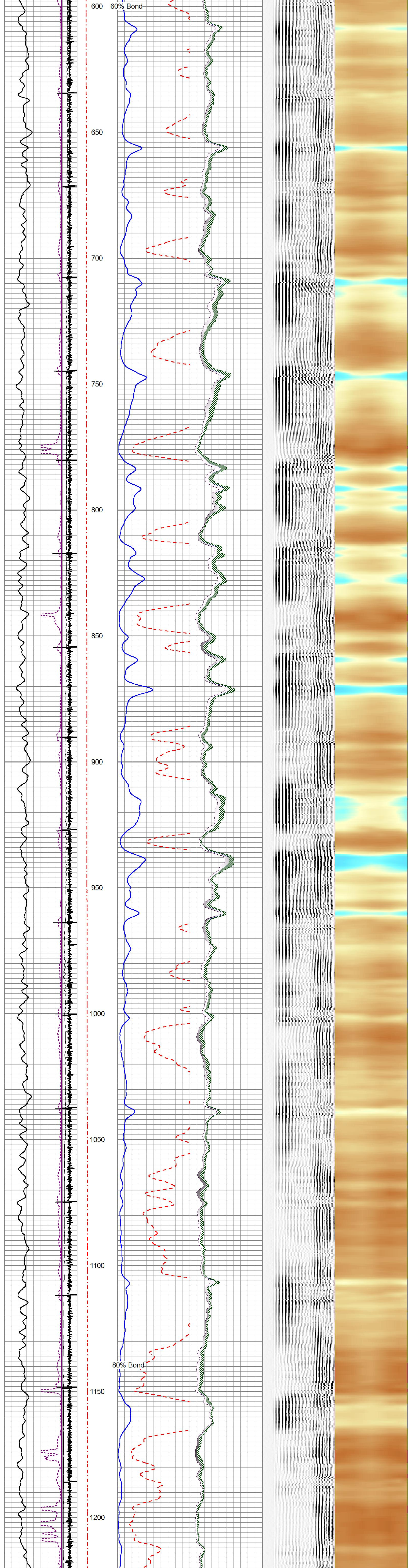
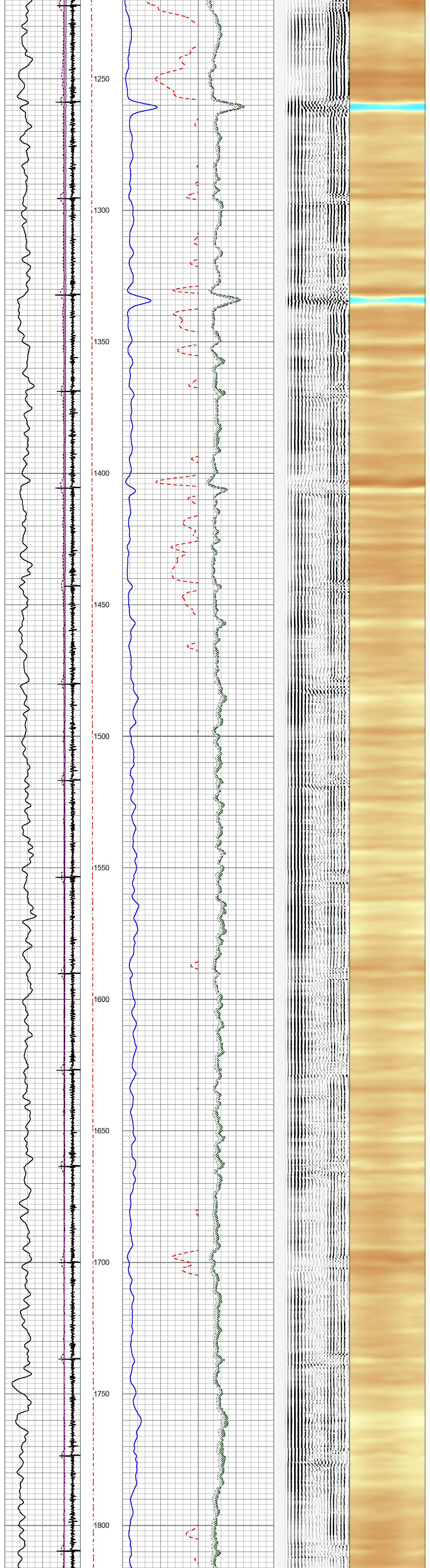
MAIN PASS - Ran with 1000 PSI

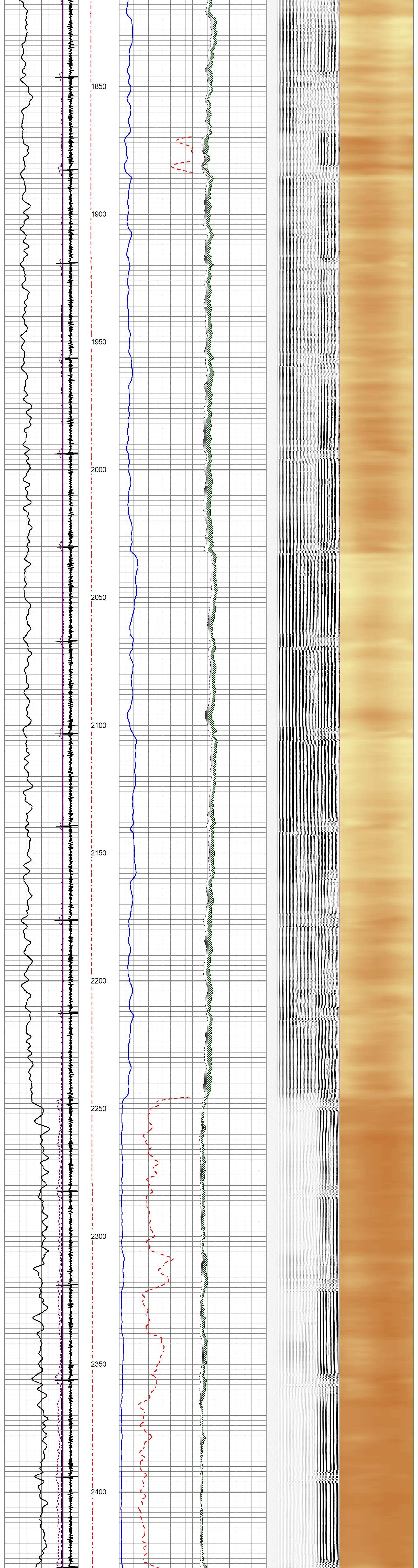
5 in / 100 ft

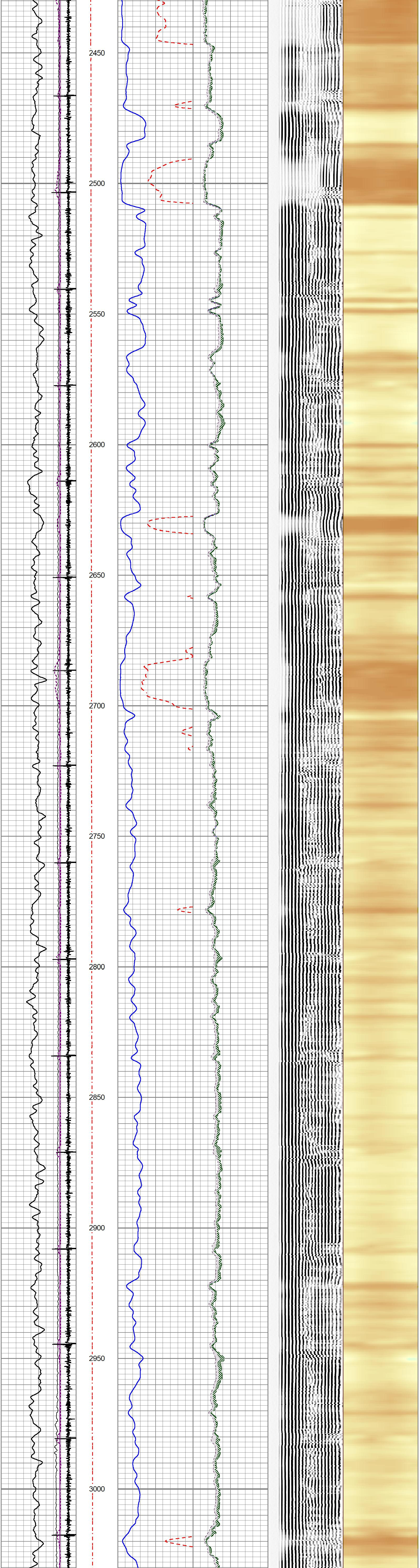
Database File	20190719_cop_prosper farms 4-65 11-12 3ah_cbl\20190719_cop_prosper farms 4-65 11-12 3ah_cbl.db
Dataset Pathname	pass3.1
Presentation Format	rcbl_8s
Dataset Creation	Fri Jul 19 15:21:05 2019
Charted by	Depth in Feet scaled 1:240

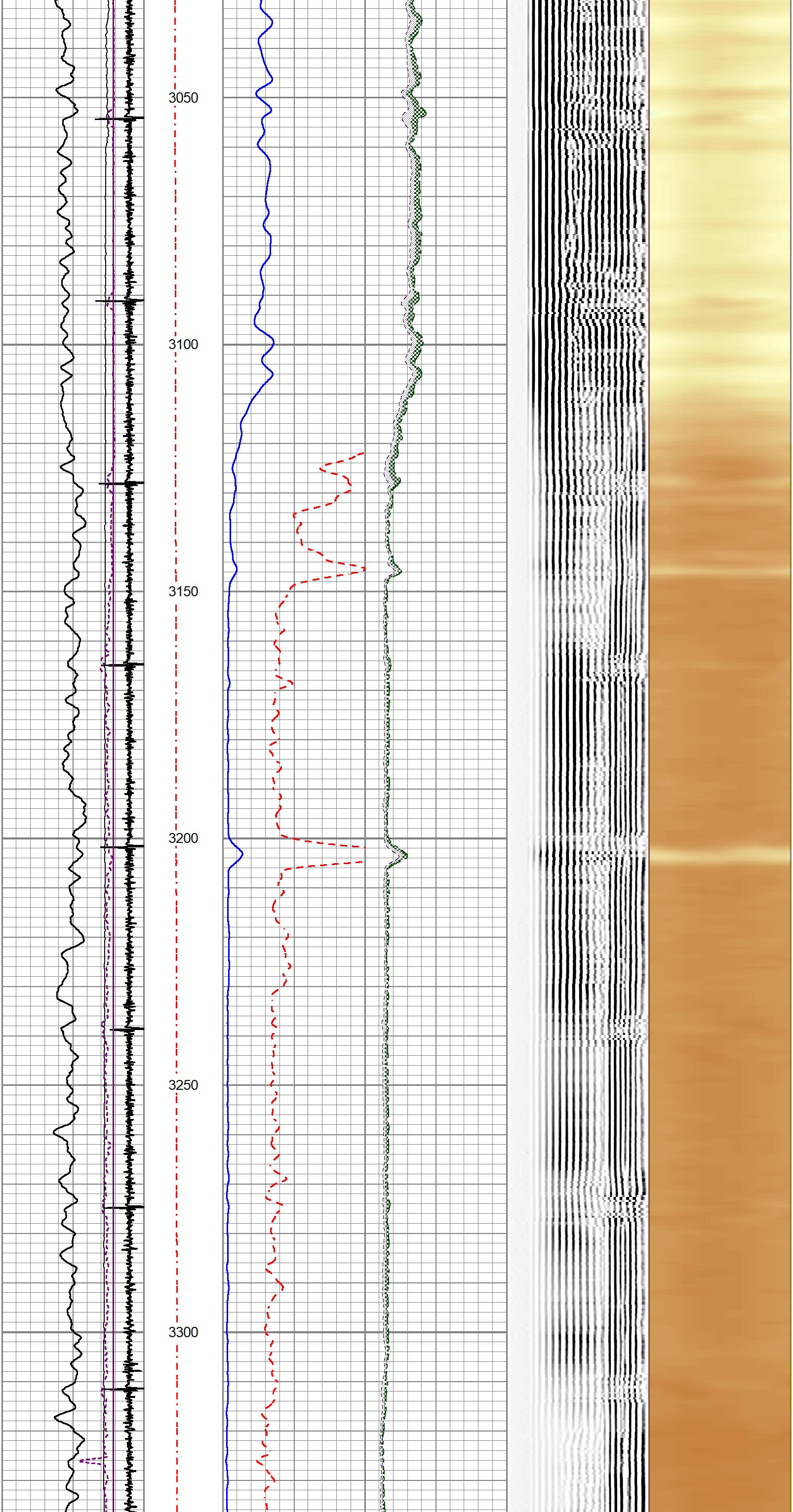


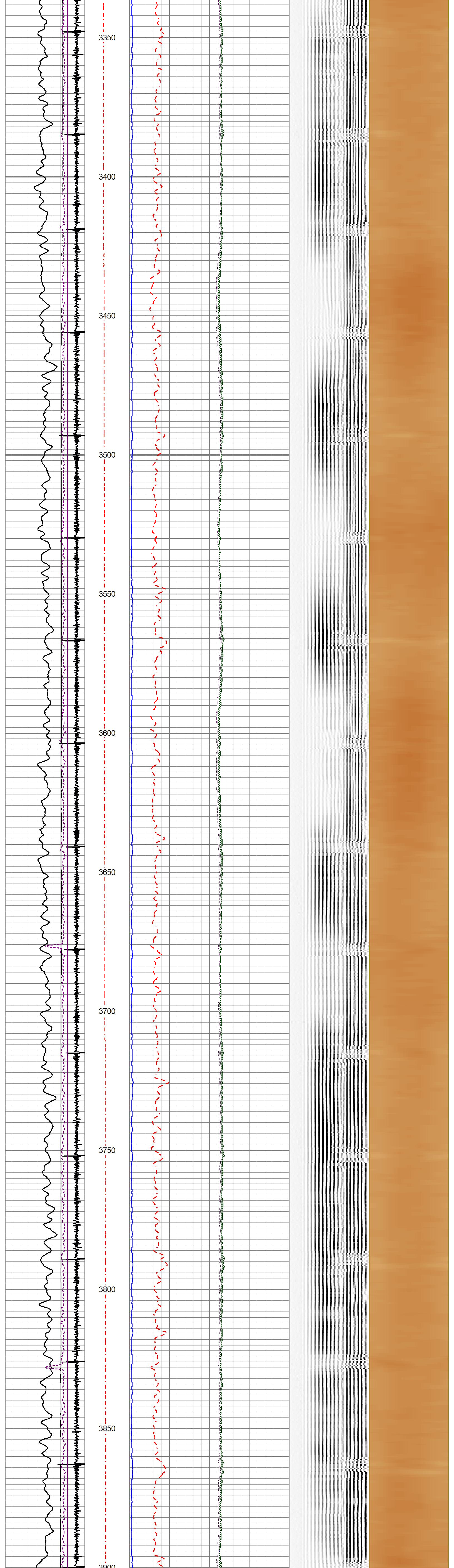








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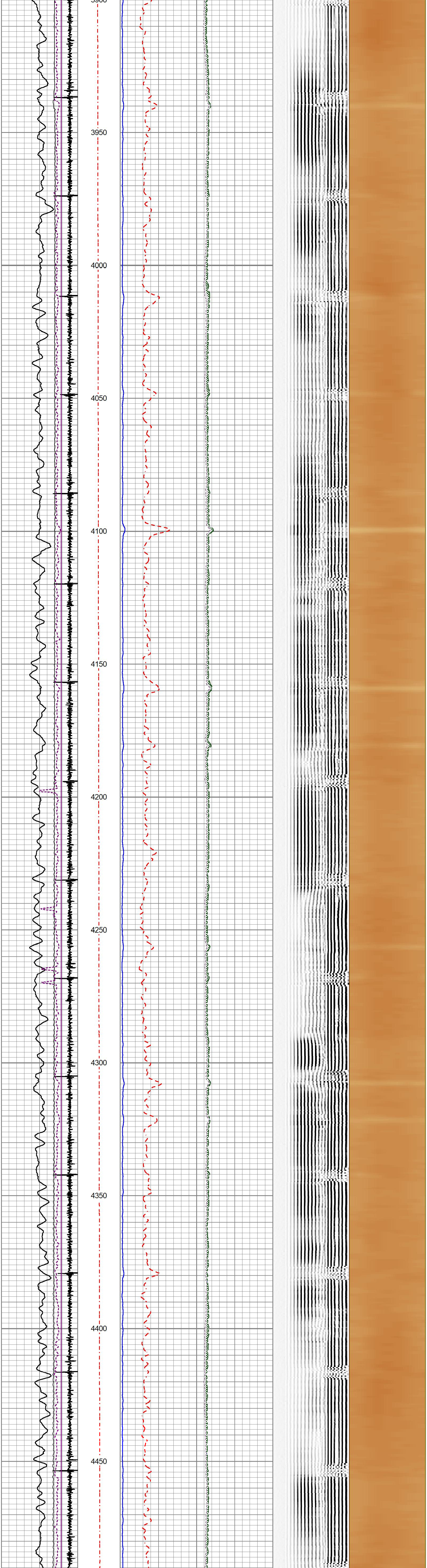
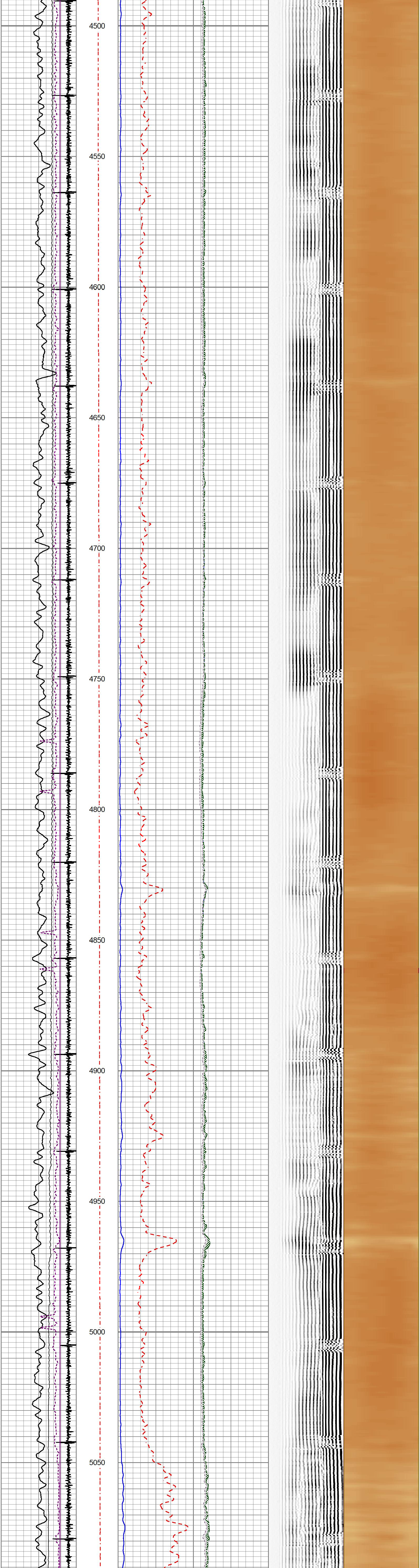
3400
3450
3500
3550
3600
3650
3700
3750
3800
3850
3900


3950
4000
4050
4100
4150
4200
4250
4300
4350
4400
4450


4500
4550
4600
4650
4700
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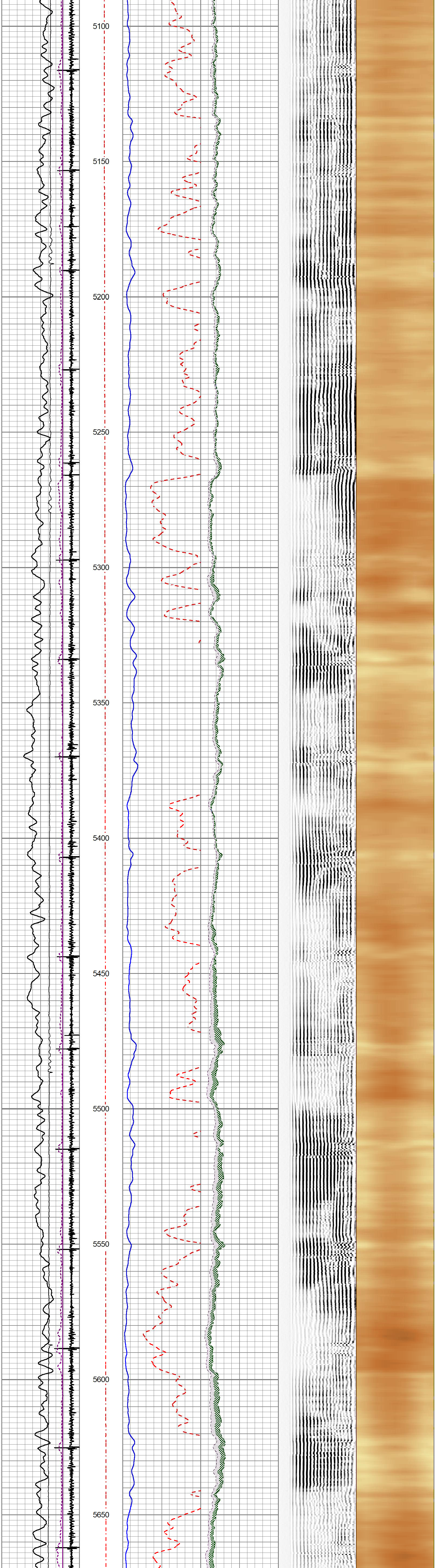
4900
4950
5000
5050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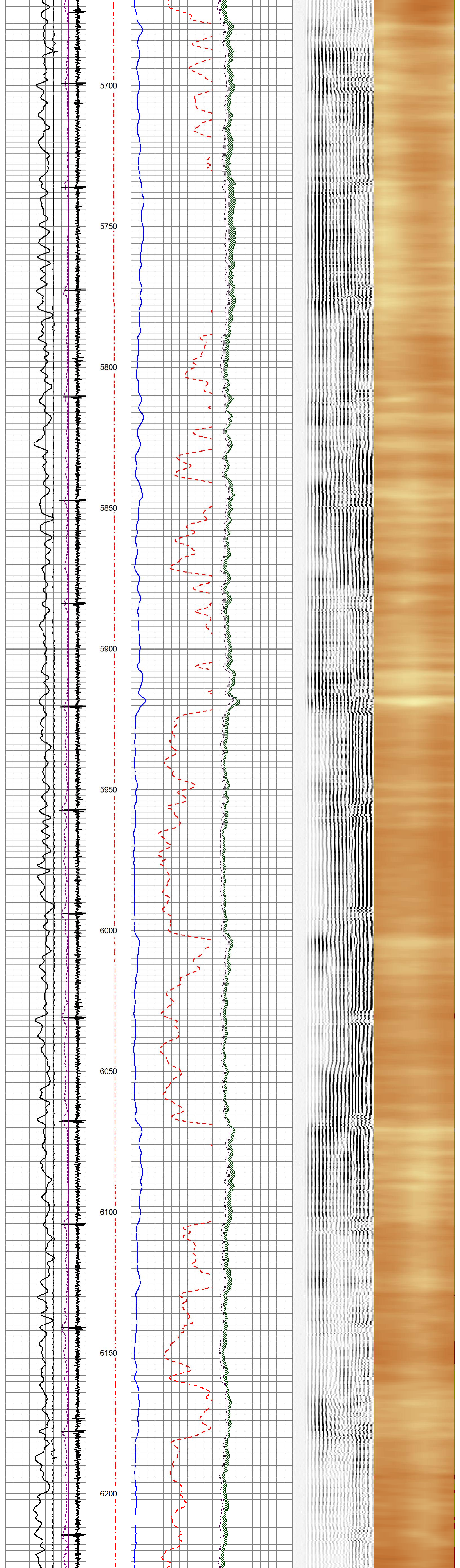
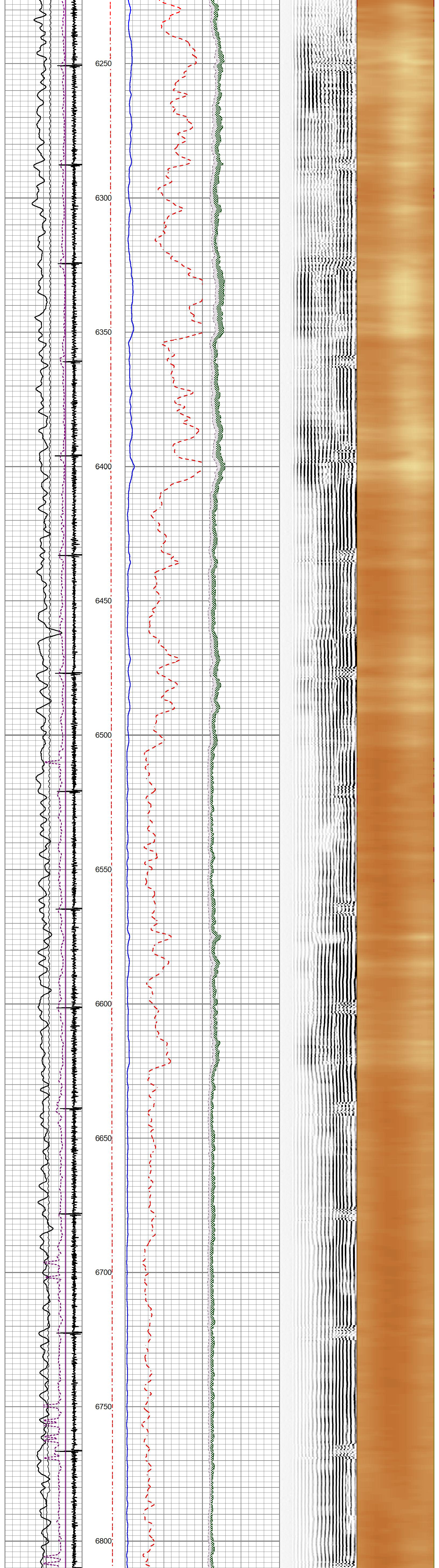
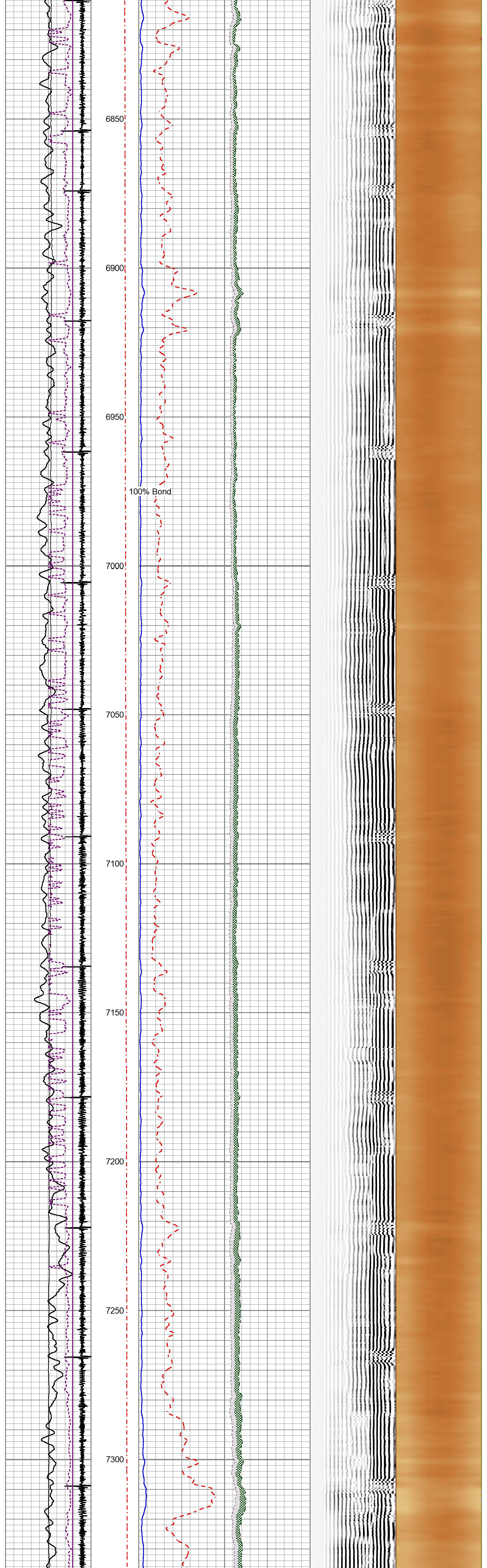
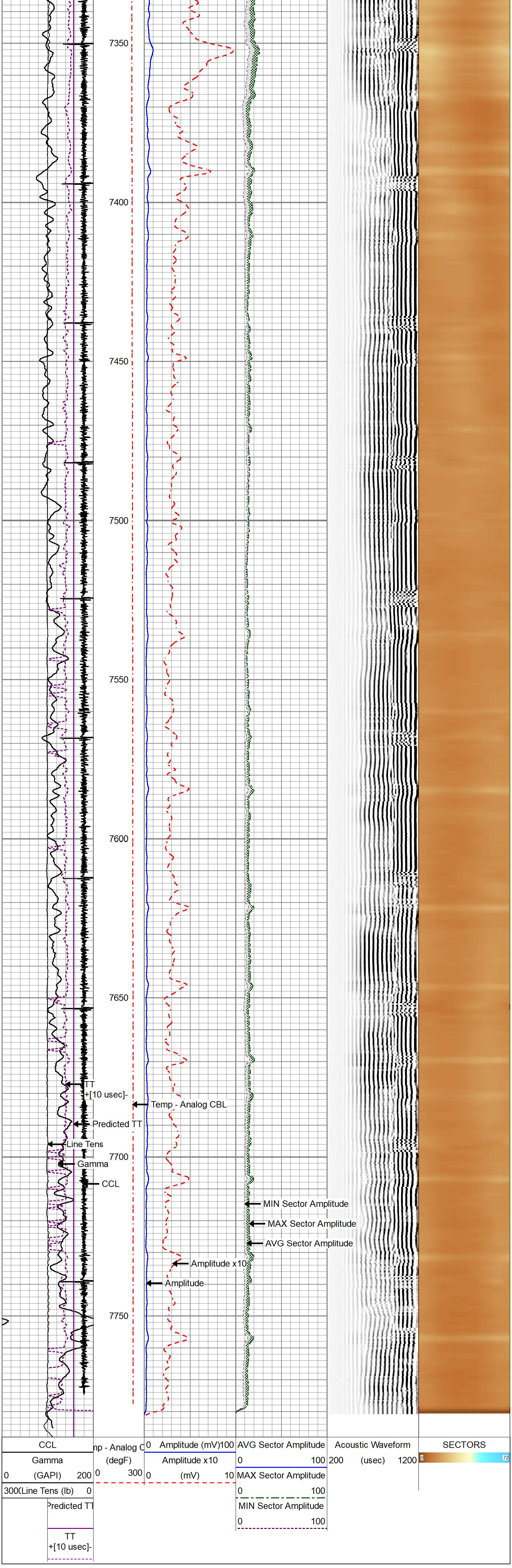
5150
5200
5250
5300
5350
5400
5450
5500
5550
5600
5650


5700
5750
5800
5850
5900
5950
6000
6050
6100
6150
6200


6250
6300
6350
6400
6450
6500
6550
6600
6650
6700
6750
6800


6850
6900
6950
100% Bond
7000
7050
7100
7150
7200
7250
7300



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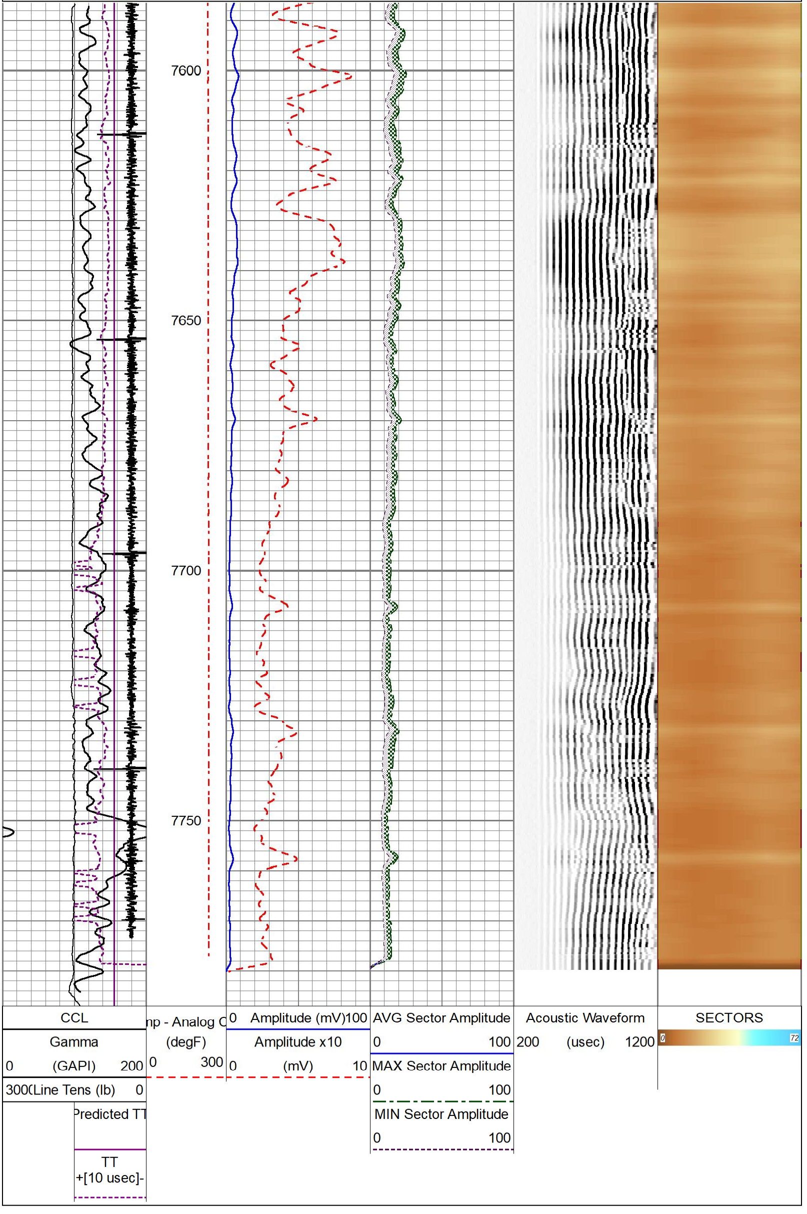
REPEAT PASS - Ran with Zero PSI

5 in / 100 ft

Database File	20190719_cop_prosper farms 4-65 11-12 3ah_cbl\20190719_cop_prosper farms 4-65 11-12 3ah_cbl.db
Dataset Pathname	pass2.1
Presentation Format	rcbl_8s
Dataset Creation	Fri Jul 19 15:21:42 2019
Charted by	Depth in Feet scaled 1:240

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



Calibration Report

Database File d:\warrior\data\20190719_cop_prosper farms 4-65 11-12 3ah_cbl\20190719_cop_prosper farms 4-65 11-12
Dataset Pathname pass3.1
Dataset Creation Fri Jul 19 15:21:05 2019

Gamma Ray Calibration Report

Serial Number:	IXEM9-01	
Tool Model:	2 3/4" TekCo	
Performed:	Thu Apr 25 11:23:51 2019	
Calibrator Value:	194.0	GAPI
Background Reading:	52.3	cps
Calibrator Reading:	314.5	cps
Sensitivity:	0.7398	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'	-0.002	1.240	0.000	71.921	57.908	0.118
CAL	-0.004	0.746				
5'	0.000	1.313	0.000	71.921	54.796	-0.007
SUM						
S1	0.007	1.301	0.000	72.000	55.631	-0.370
S2	0.006	1.347	0.000	72.000	53.719	-0.344
S3	0.006	1.379	0.000	72.000	52.466	-0.336
S4	0.005	1.428	0.000	72.000	50.618	-0.263
S5	0.006	1.472	0.000	72.000	49.108	-0.286
S6	0.006	1.469	0.000	72.000	49.209	-0.284
S7	0.006	1.447	0.000	72.000	49.993	-0.322
S8	0.007	1.395	0.000	72.000	51.872	-0.357

Internal Reference Calibration, performed (Not Performed):

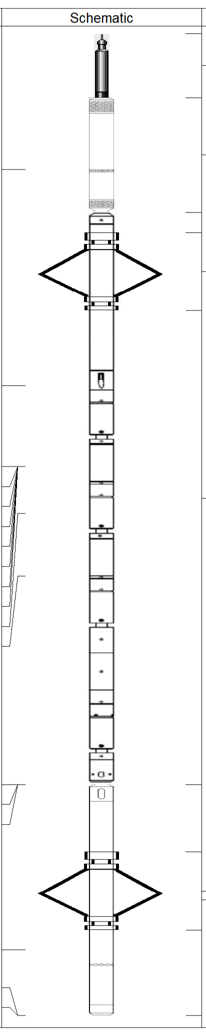
	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.004	0.746	1.000	0.000

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 (IS2T1-09)	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 (IXEM9-01)	3.68	2.75	47.00
GR	1.04					
LOCTIM	0.00					
UTCTIM	0.00					

Dataset: 20190719_cop_prosper farms 4-65 11-12 3ah_cbl.db: field/well/run1/pass3.1
Total length: 15.67 ft
Total weight: 185.60 lb
O.D.: 2.75 in

gyrodata

Company	ConocoPhillips, Inc.
Well	Prosper Farms 4-65 11-12 3AH
Field	----
County	Arapahoe
State	Colorado
Country	U.S.A.