RELIANCE OILFIELD SERVICES

Radial Cement Bond
Gamma Ray
Casing Collar Log

Company	TEP Rocky Mountain LLC
Well	Chevron TR 323-21-597
Field	Trail Ridge
County	Garfield
State	Colorado

Company TEP Rocky Mountain LLC

Well Chevron TR 323-21-597

Field Trail Ridge

County Garfield State Colorado

Location: API # : 05-045-23350

727' FSL & 1889' FWL SESW

SEC 21 TWP 5S RGE 97W

Other Services: PDN

Permanent Datum	Ground Level	Elevation	8292'
Log Measured From	Kelly Bushing		
Drilling Measured From	Kelly Bushing		

Elevation
K.B. 8316'
D.F. 8315'
G.L. 8292'

Date	28-MAR-2017		
Run Number	One		
Depth Driller	9597 FT		
Depth Logger	9522 FT		
Bottom Logged Interval	9522 FT		
Top Log Interval	Surface		
Open Hole Size	8.750"		
Type Fluid	Water		
Density / Viscosity	8.34 lb/gal		
Max. Recorded Temp.	262 °F		
Estimated Cement Top	1920 FT		
Time Well Ready	ROA		
Time Logger on Bottom	---		
Equipment Number	HD 329		
Location	Grand Junction		
Recorded By	J. Donnelly		
Witnessed By	C. Applegate		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size (in)	Wgt (lbs/Ft)	Grade	Top	Bottom
Surface Casing	9 5/8	36 & 40	---	Surface	2640 FT
Intermediate #1	4 1/2	11.6	---	Surface	9558 FT
Intermediate #2					
Liner					

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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.

Comments

Log ran as per customer request
Depth referenced to Kelly Bushing at 24 FT
Ground level 2 FT below top of cut pipe
Marker joint logged @ 5692 FT - 5714 FT
Log ran from 9558 FT to surface
Recorded with 0 PSI surface induced pressure

Thank you for choosing Reliance Oilfield Services, LLC!!

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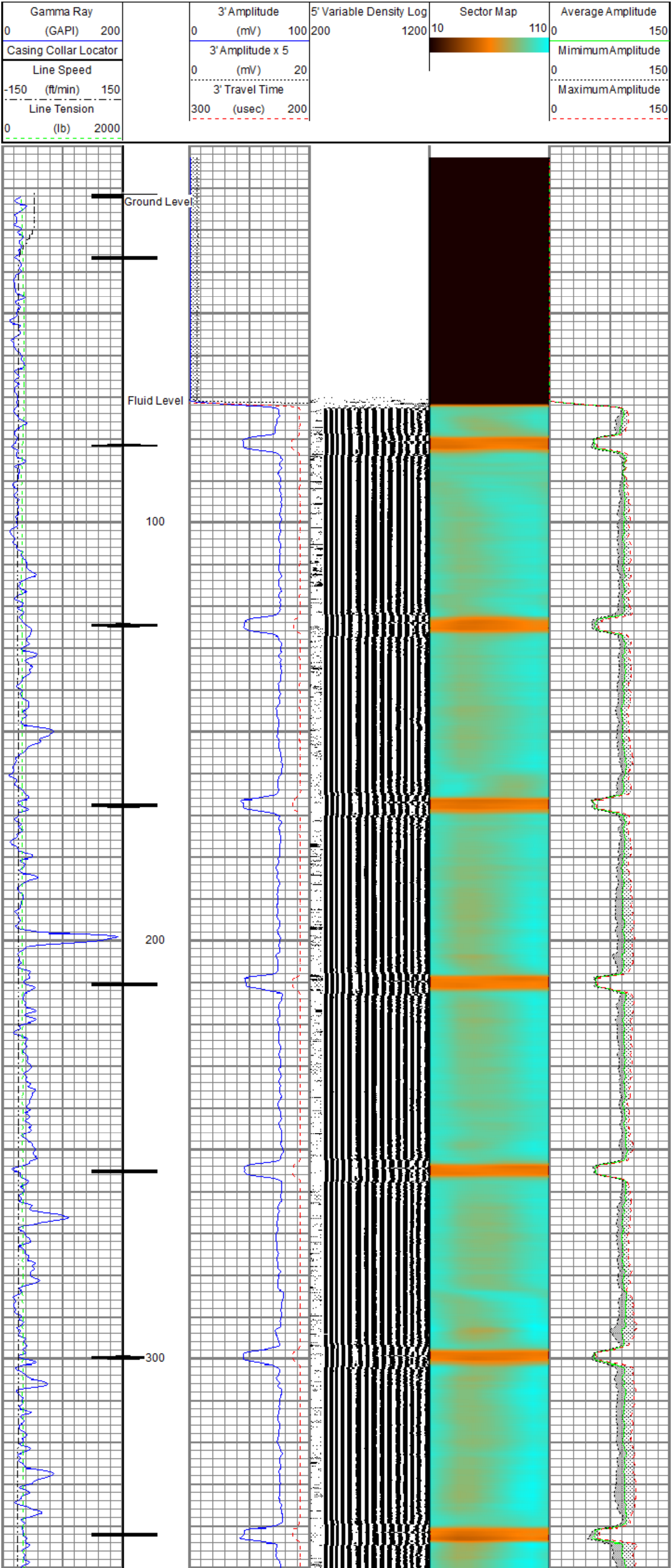
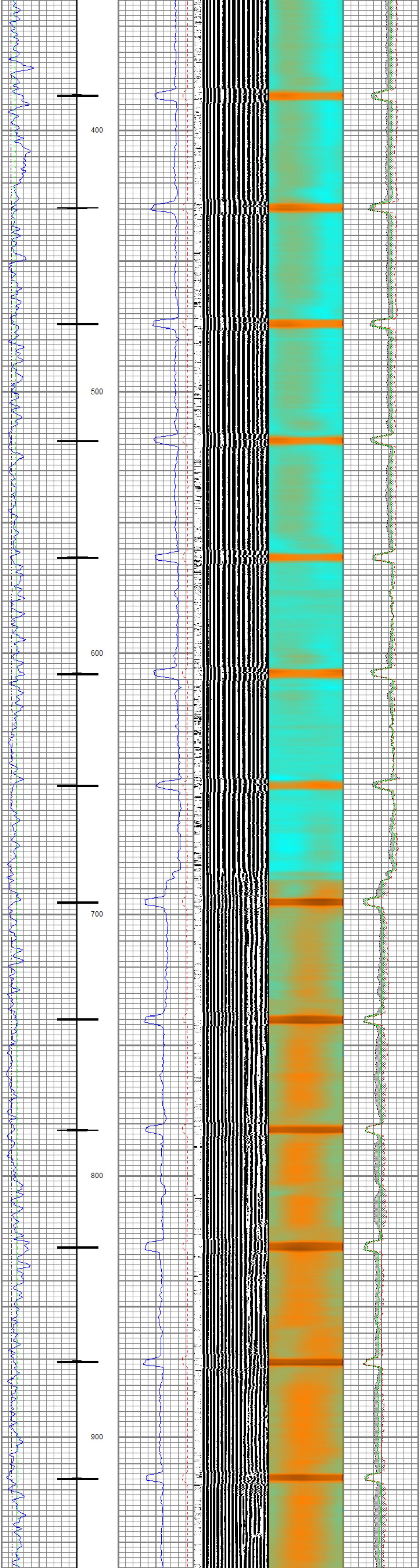
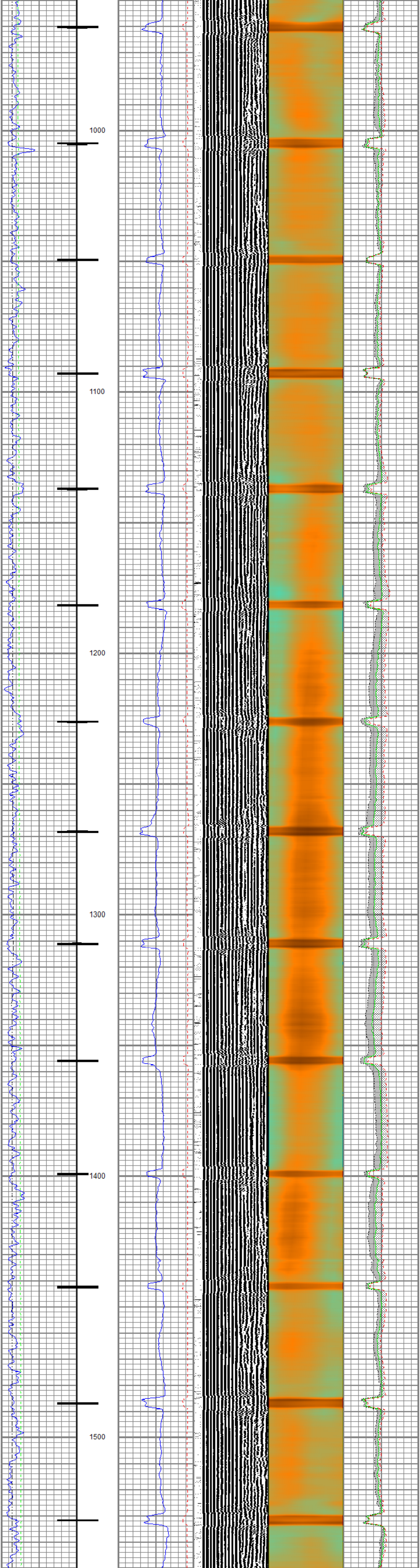
Main Pass

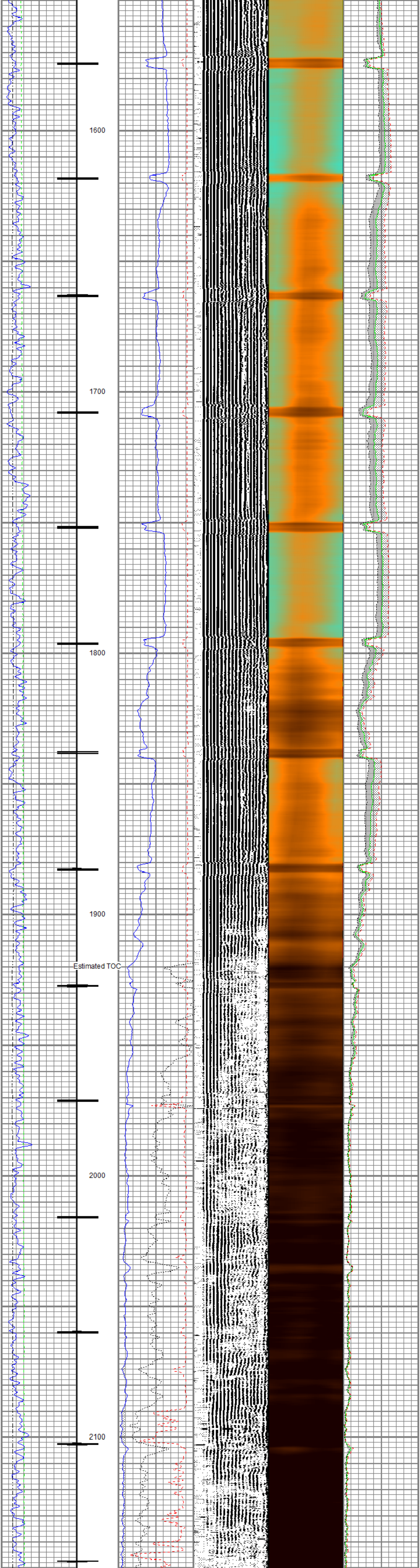
Recorded With 0 PSI Surface Induced Pressure

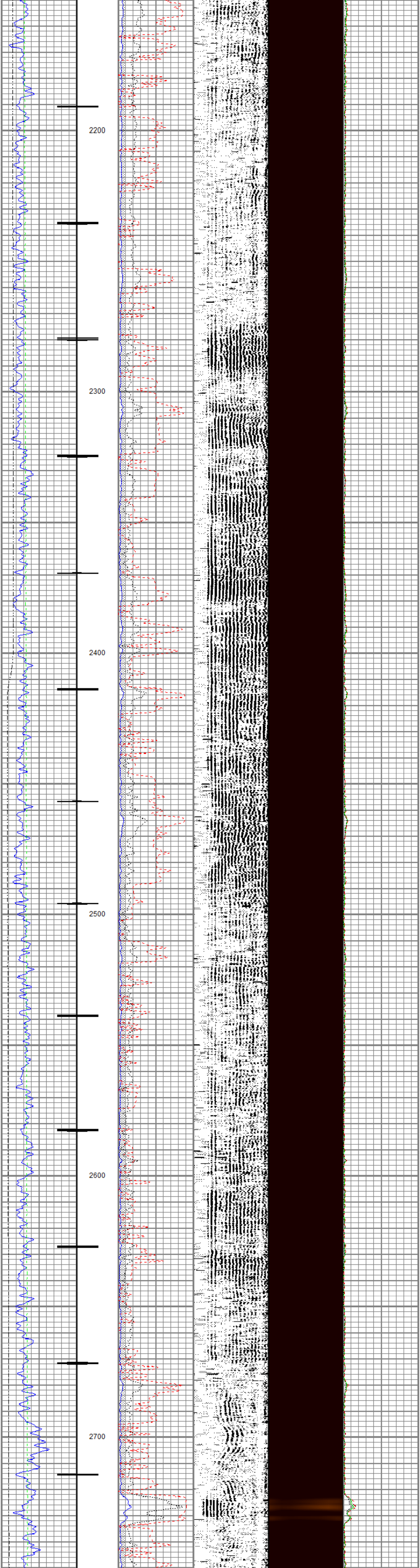
Database File	c:\users\emily siegel\downloads\tep_chevron_tr 323-21-597_03-28-17_rbl_color.db
Dataset Pathname	pass5.1
Presentation Format	ros_rbt004_tep
Dataset Creation	Thu Mar 30 09:42:53 2017
Charted by	Depth in Feet scaled 1:240

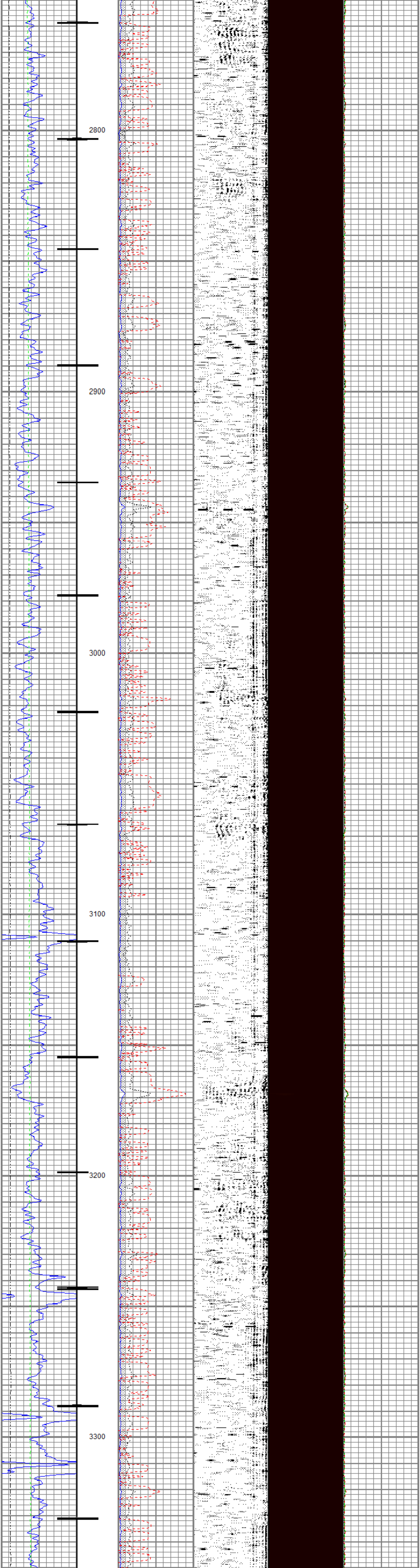


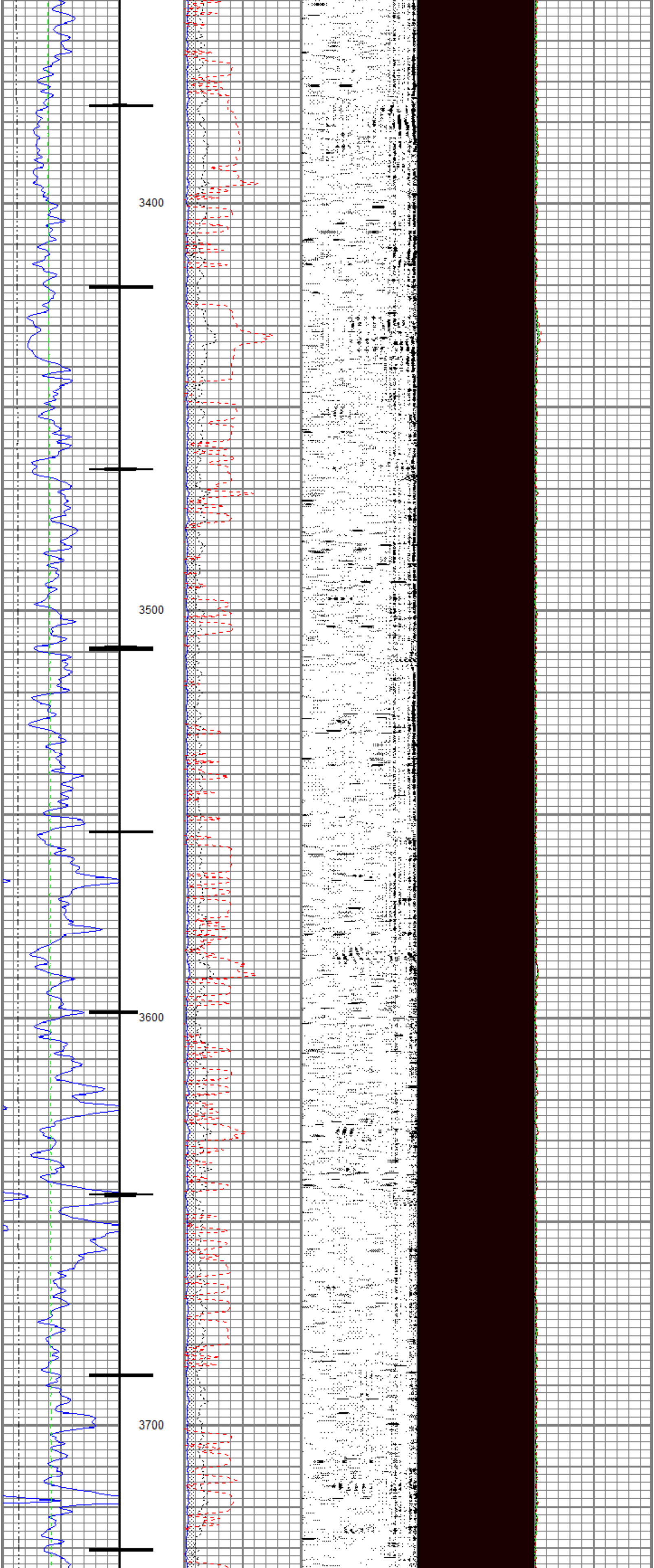


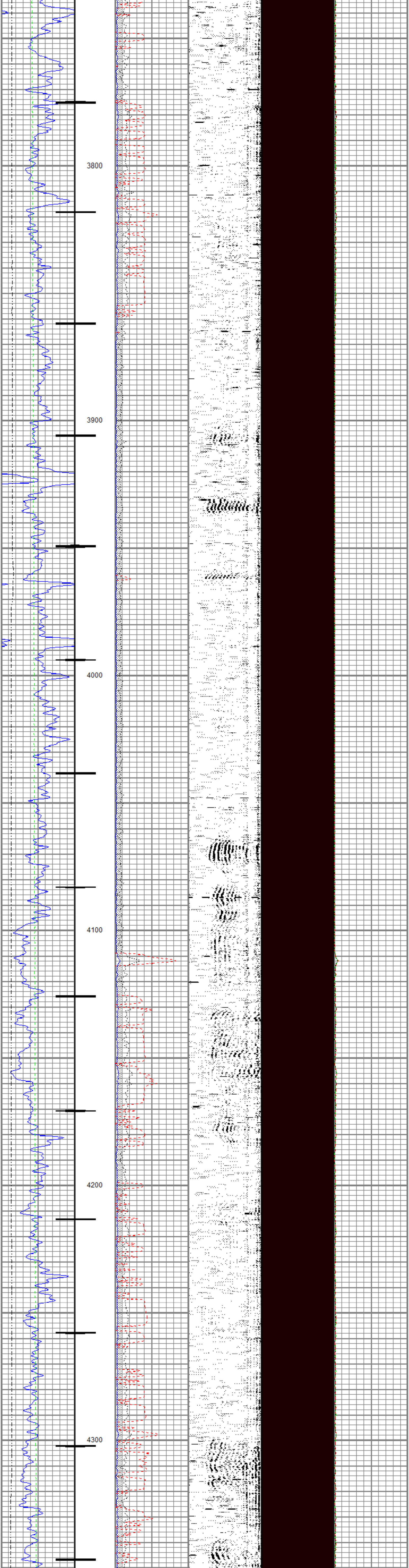








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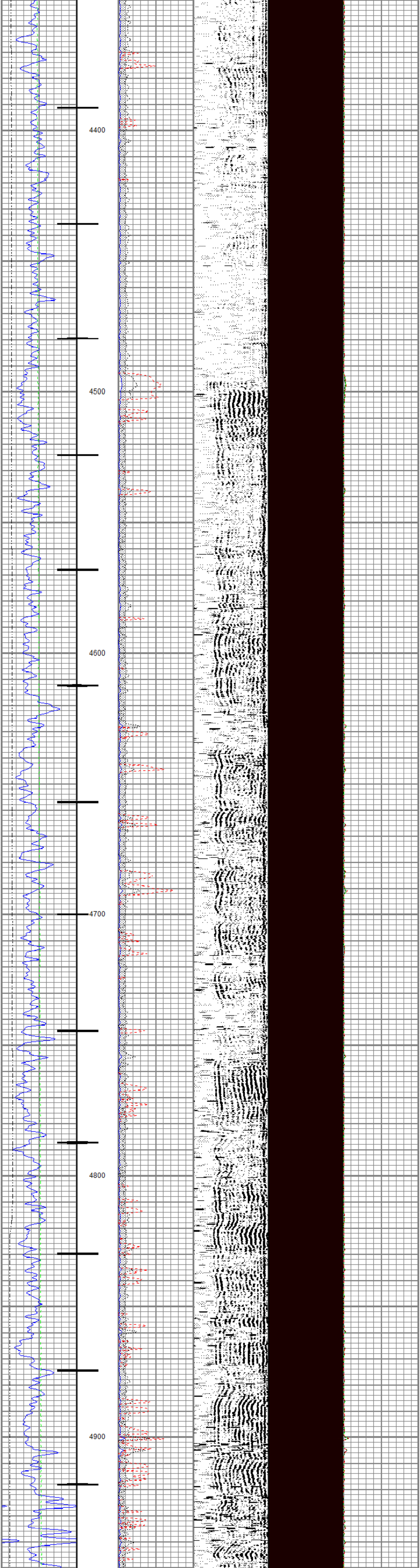
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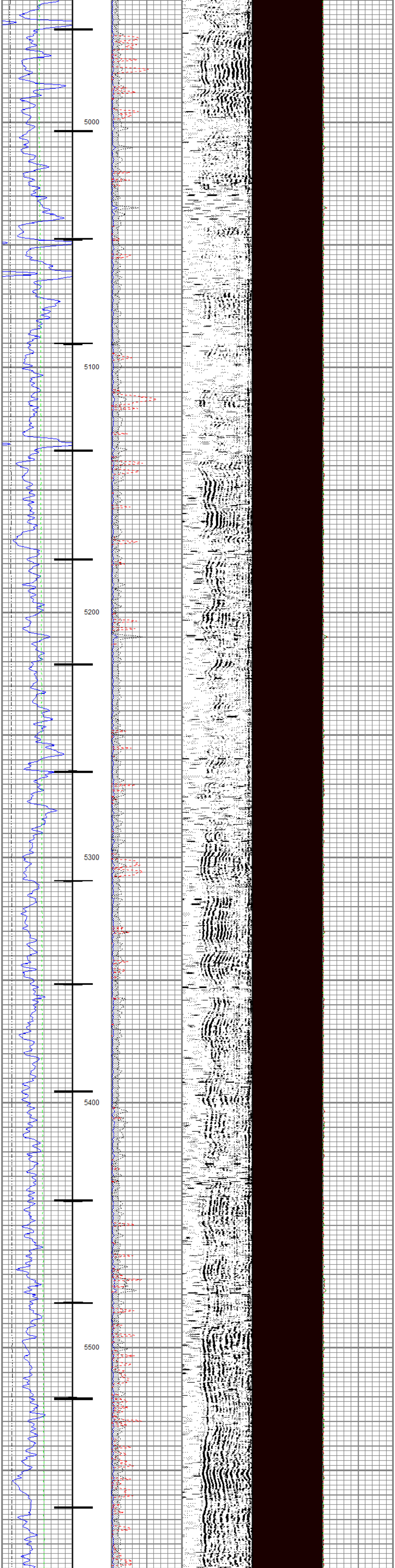
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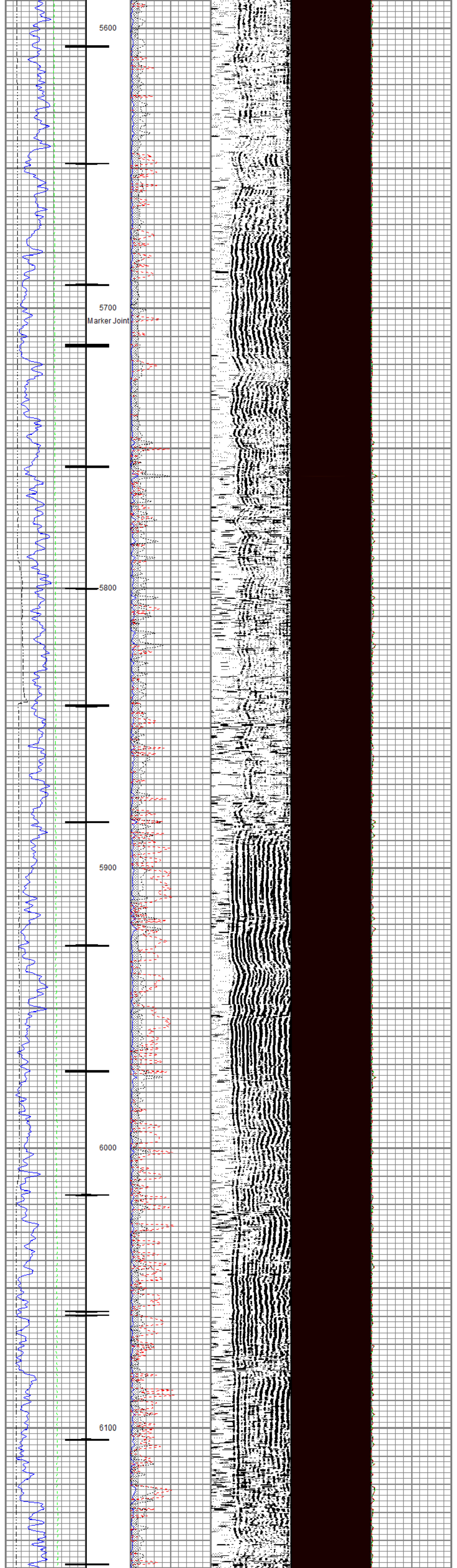
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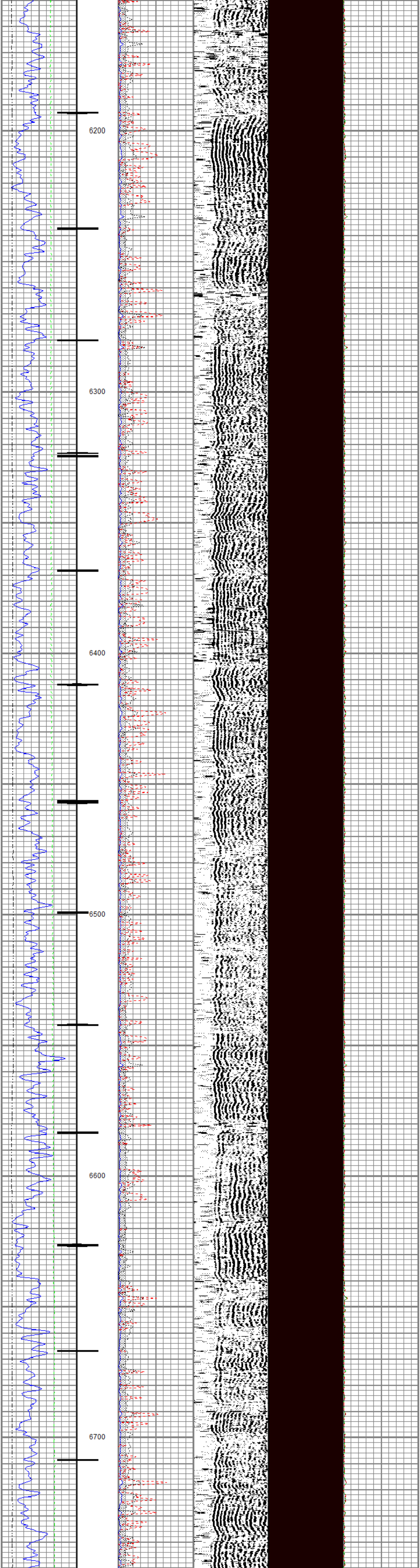
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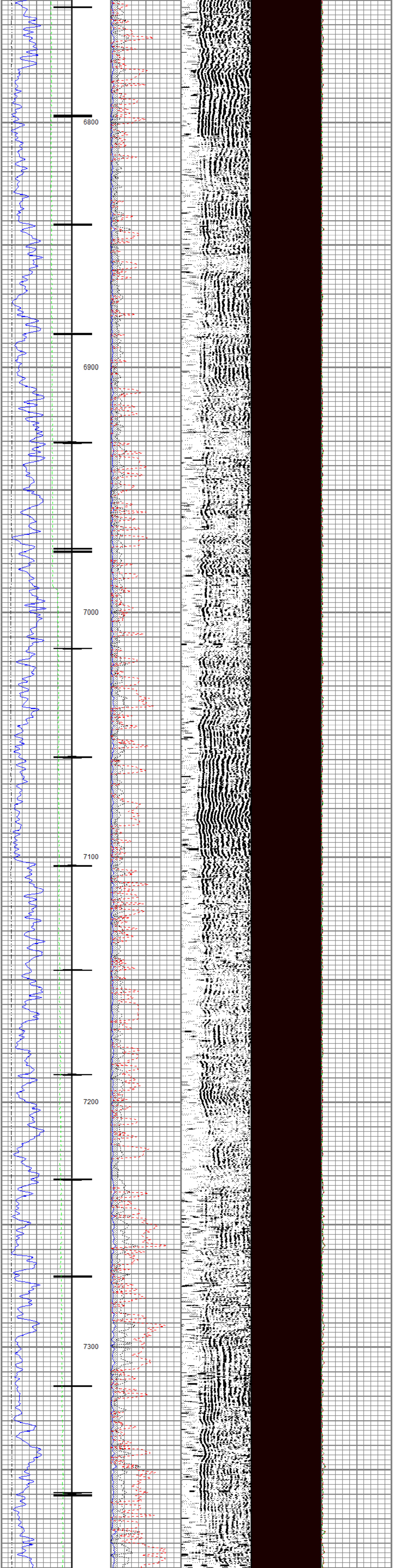
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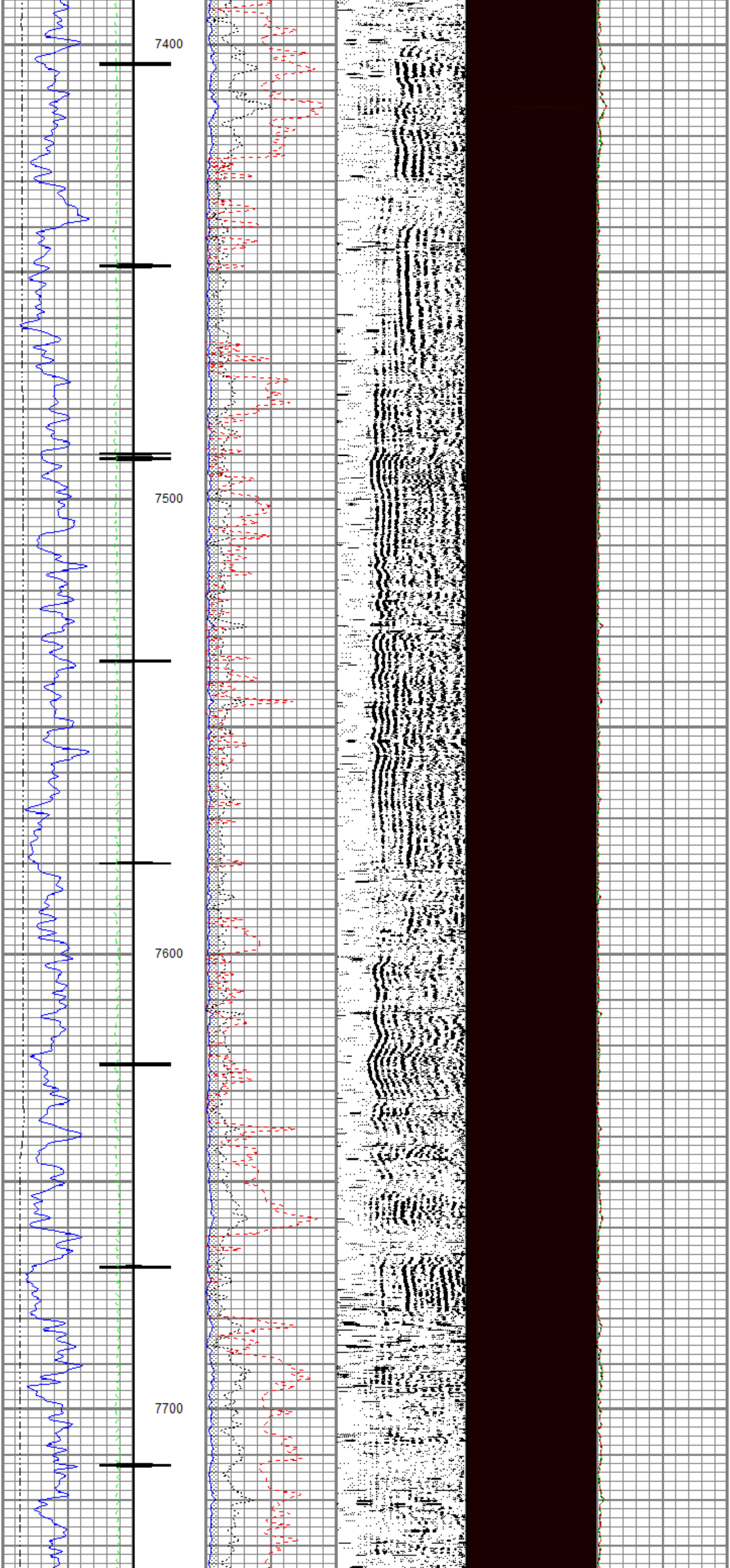
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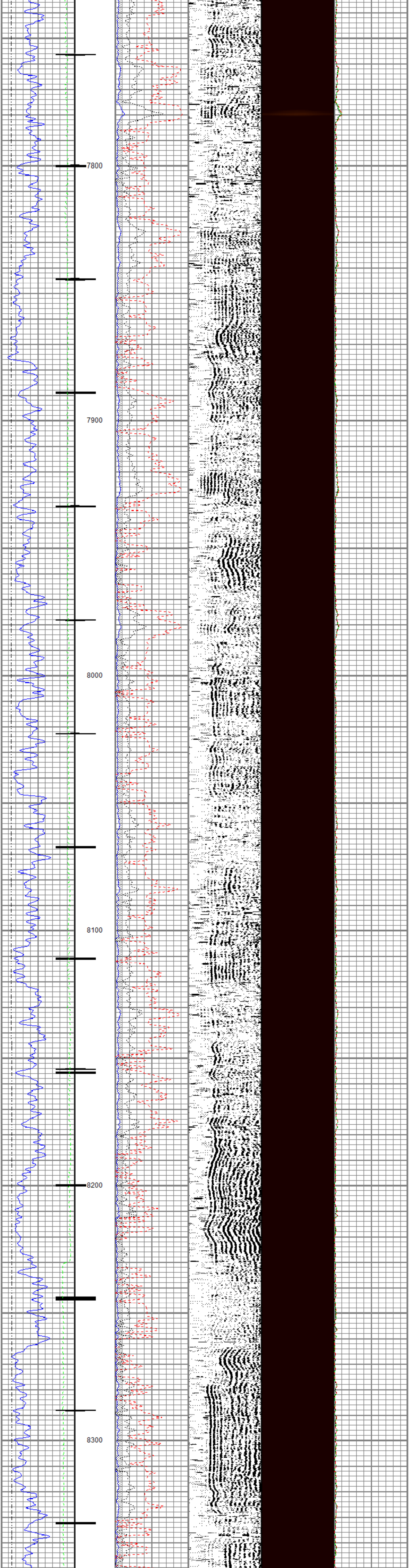
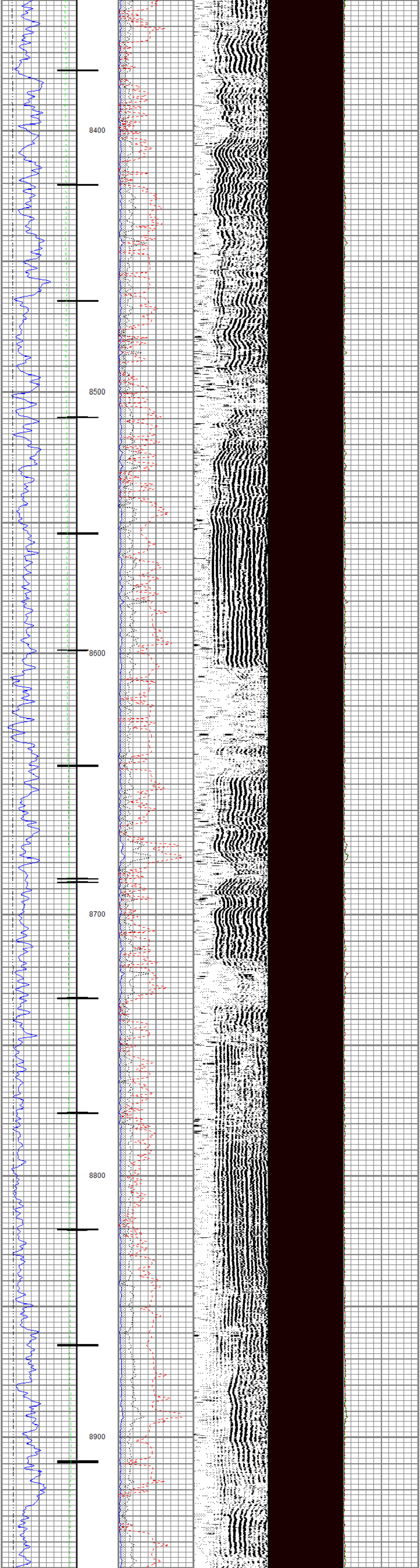
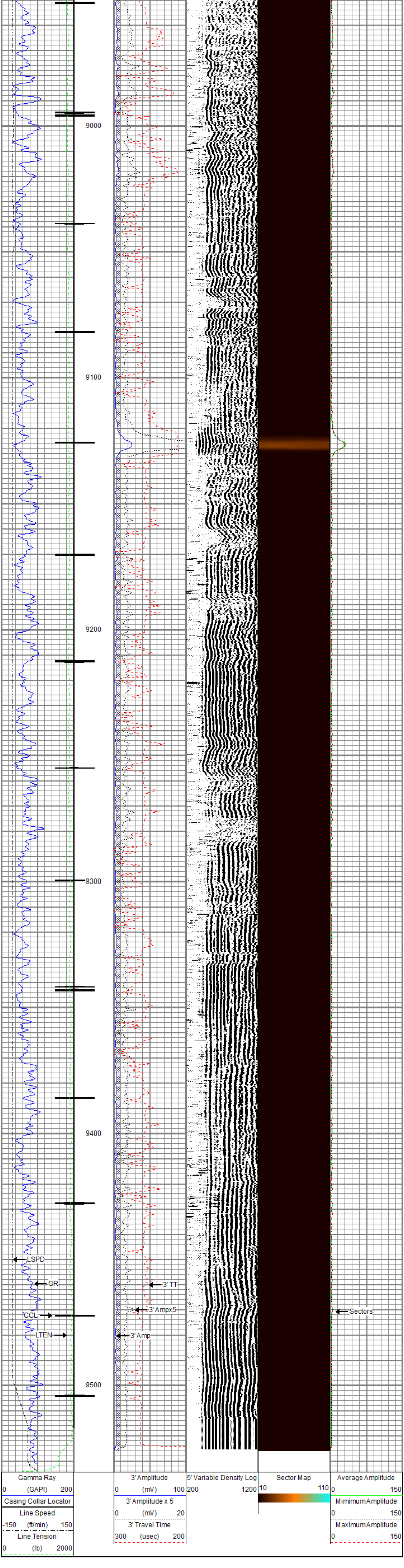




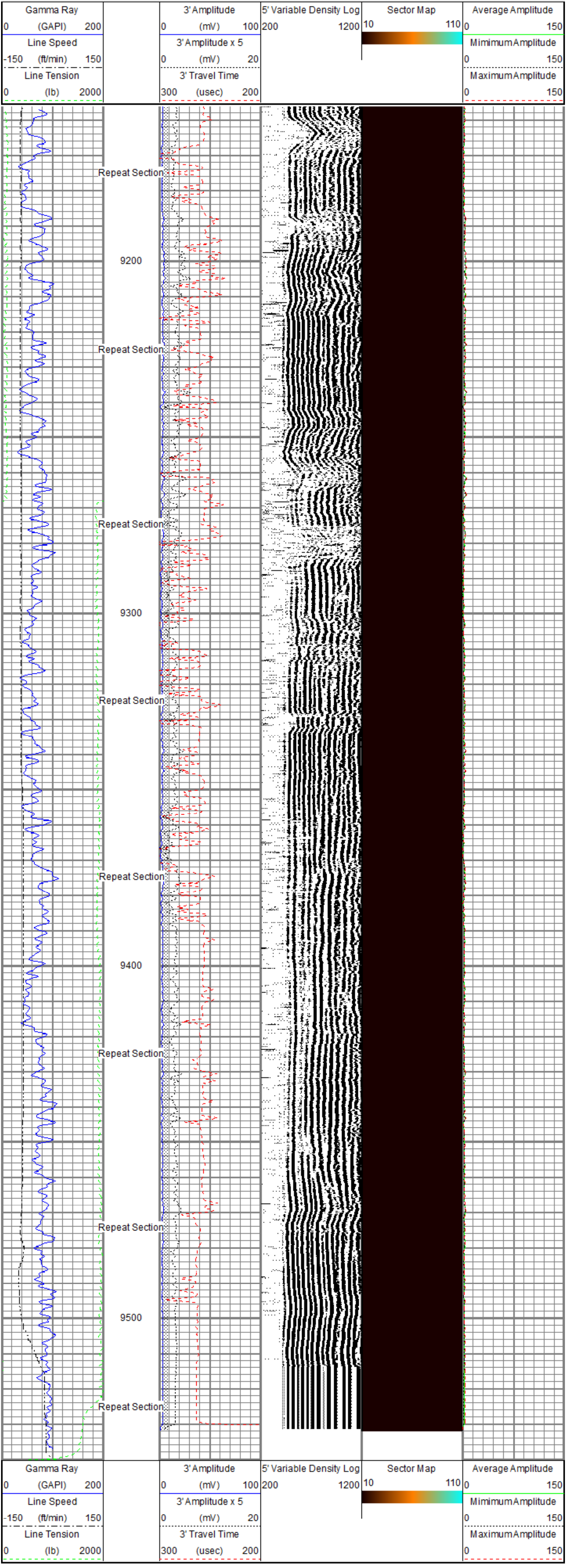


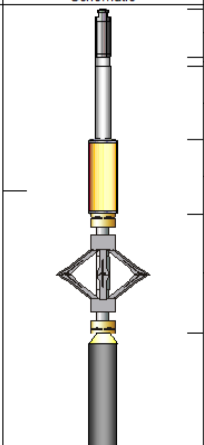
RELIANCE OILFIELD SERVICES

Repeat Pass

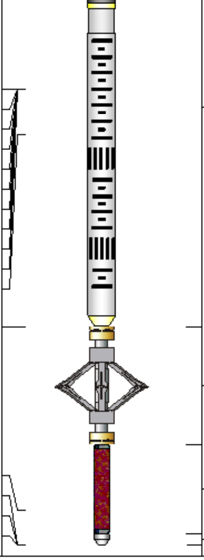
Recorded With 0 PSI Surface Induced Pressure

Database File	c:\users\emily siegel\downloads\tep_chevron_tr 323-21-597_03-28-17_rbl_color.db
Dataset Pathname	pass4.1
Presentation Format	ros_rbt004_tep
Dataset Creation	Thu Mar 30 09:54:08 2017
Charted by	Depth in Feet scaled 1:240



Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			Titan_Electric_Cable_Heads-Titan_1-11/1 Electric Cable Head with 1" Fishing Neck	1.03	1.69	5.40
			UW_AGS-UW_AGS_001 (219135) Sondex Adapter - GO Box to Sondex Pin	0.21	1.69	1.00
			UW_XTU-UW_XTU_002 (10012277) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
CCL	17.22		UW_CCL-UW_CCL_028 (10025621) 3-1/8" Ultrawire Casing Collar Locator	1.61	3.13	36.00
			UW_PRC-DSS_RAC 5 Arm 2-3/4" Roller Centralizer	2.55	2.75	32.00

CBLROT	9.83
WVFS8	9.83
WVFS7	9.83
WVFS6	9.83
WVFS5	9.83
WVFS4	9.83
WVFS3	9.83
WVFS2	9.83
WVFS1	9.83
WVF3FT	9.83
WVF5FT	8.83
CBLTEMP	4.69
GR	0.72
HVOLTX	0.00
ITEMPX	0.00
TSTAMP	0.00



UW_RBT-UW_RBT_004 (10012639) Sondex Ultrawire 3-1/8" Radial Bond Tool	9.48	3.13	140.00
UW_PRC-DSS_RAC 5 Arm 2-3/4" Roller Centralizer	2.55	2.75	32.00
UW_PGR-UW_PGR_020 (10019371) Production Gamma Ray	1.92	1.69	9.50
UW_BUL-UW_BUL_006 (031422) Sondex Ultrawire Bullnose Terminator	0.22	1.69	1.20

Dataset:	TEP_Chevron_TR 323-21-597_03-28-17_RBL_COLOR.db: field/well/run1/pass5.1
Total length:	21.14 ft
Total weight:	263.60 lb
O.D.:	3.13 in

Calibration Report

Database File	C:\Users\Emily Siegel\Downloads\TEP_Chevron_TR 323-21-597_03-28-17_RBL_COLOR.db
Dataset Pathname	pass5.1
Dataset Creation	Thu Mar 30 09:42:53 2017

Gamma Ray Calibration Report

Serial Number:	10019371	
Tool Model:	UW_PGR_020	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	10012639	
Tool Model:	UW_RBT_004	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	463.694	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	-0.004	1.188	0.800	81.196	67.447	1.092
5FT	-0.020	0.862	0.800	81.196	91.067	2.655
S1	-0.004	1.105	0.000	100.000	90.233	0.328
S2	-0.004	1.065	0.000	100.000	93.511	0.406
S3	-0.003	1.086	0.000	100.000	91.815	0.280
S4	-0.004	1.145	0.000	100.000	87.049	0.349
S5	-0.003	1.231	0.000	100.000	81.027	0.232
S6	-0.003	1.307	0.000	100.000	76.356	0.219
S7	0.001	1.281	0.000	100.000	78.118	-0.088
S8	0.000	1.183	0.000	100.000	84.536	-0.011

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Well	Chevron TR 323-21-597
Field	Trail Ridge
County	Garfield
State	Colorado