



PIONEER

Pioneer Energy Services

RADIAL BOND LOG WITH GAMMA RAY

Comp. DAYSTAR PETROLEUM, INC		Company DAYSTAR PETROLEUM, INC	
Well GRAVES #3		Well GRAVES #3	
Field DAMME		Field DAMME	
Par. FINNEY		Parish FINNEY	
State KANSAS		State KANSAS	
Location: API # : 15-055-22521-00-00		Other Services	
675' FNL & 1251' FEL		PERF	
SEC 16 TWP 22S RGE 33W			
Permanent Datum	GL	Elevation	2871'
Log Measured From	KB	11'	Above Perm. Datum
Drilling Measured From	KB		K.B. 2882' D.F. N/A G.L. 2871'
Date of Service	8/29/2019		
Run Number	ONE		
Depth Driller or PBTD	4800'		
Depth Logger	4753'		
Bottom Log Interval	4751'		
Top Log Interval	380'		
Open Hole Size	7.875"		
Type Fluid	WATER		
Fluid Level	FULL		
Fluid Density	N/A		
Max. Recorded Temperature	124 DEG/F		
Max. Wellhead Pressure	00 PSI		
Wellhead Connection	FLOWTEE		
Estimated Cement Top	3535'		
Unit Number	P-18		
Wireline Size	.288		
Location	HAYS, KANSAS		
Recorded By	K.PFANNENSTIEL		
Witnessed By	JASON SCHMIDT		
	Size	Wt/Ft	Top
Tubing Record			Bottom
Surface Casing	8.625"	23#	00'
Production Casing	5.5"	15.5#	00'
Liner Record			TD

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
GARDEN CITY KANSAS
NORHT TO BALOW ROAD, 3 WEST TO TANK BATTERY,
3/4 NORTH, 1/4 WEST, NORTH INTO

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: K.PFANNENSTIEL Operator: J.BEGLER Operator: Operator:		

Log Variables

DatabaseC:\ProgramData\Warrior\Data\daystarpetroleum_graves3_ch_scb_08292019.db
Dataset field/well/run1/pass10/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 100	CASEOD in 5.5	CASETHCK in 0.415	CASEWGHT lb/ft 15.5	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.08
PERFS 0	PPT usec 0	SRFTEMP degF 70	TDEPTH ft 4758				

Variable Description

BOREID : Borehole I.D.

BOTTEMP : Bottom Hole Temperature

CASEOD : Casing O.D.

CASETHCK : Casing Thickness

CASEWGHT : Casing Weight

MAXAMPL : Maximum Amplitude

MINAMPL : Minimum Amplitude

MINATTN : Minimum Attenuation

PERFS : Perforation Flag

PPT : Predicted Pipe Time

SRFTEMP : Surface Temperature

TDEPTH : Total Depth

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			Cable Head-Titan_144 1 7/16" Titan Cable Head	1.03	1.44	2.00
			Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
WVFS8	11.94		PROBE-RBT-DIGITAL-RBL-D (PR-012) Probe 2 3/4" Radii Bond-Digital	8.75	2.75	100.00
WVFS7	11.94					
WVFS6	11.94					
WVFS5	11.94					
WVFS4	11.94					
WVFS3	11.94					
WVFS2	11.94					
WVFS1	11.94					
WVFCAL	11.94					
WV3FT	11.94					
WV5FT	10.94					
HEADVOLT	7.75					
			Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00

CCL	3.96					
GR	2.63		GR_CCL-2 3/4" Probe (111032)	4.54	2.75	50.00
			Bullnose-PROBE Probe Go Pin Pressure Cap	0.33	1.38	1.00
Dataset: daystarpetroleum_graves3_ch_scbl_08292019.db: field/well/run1/pass10 Total length: 20.41 ft Total weight: 183.00 lb O.D.: 2.75 in						



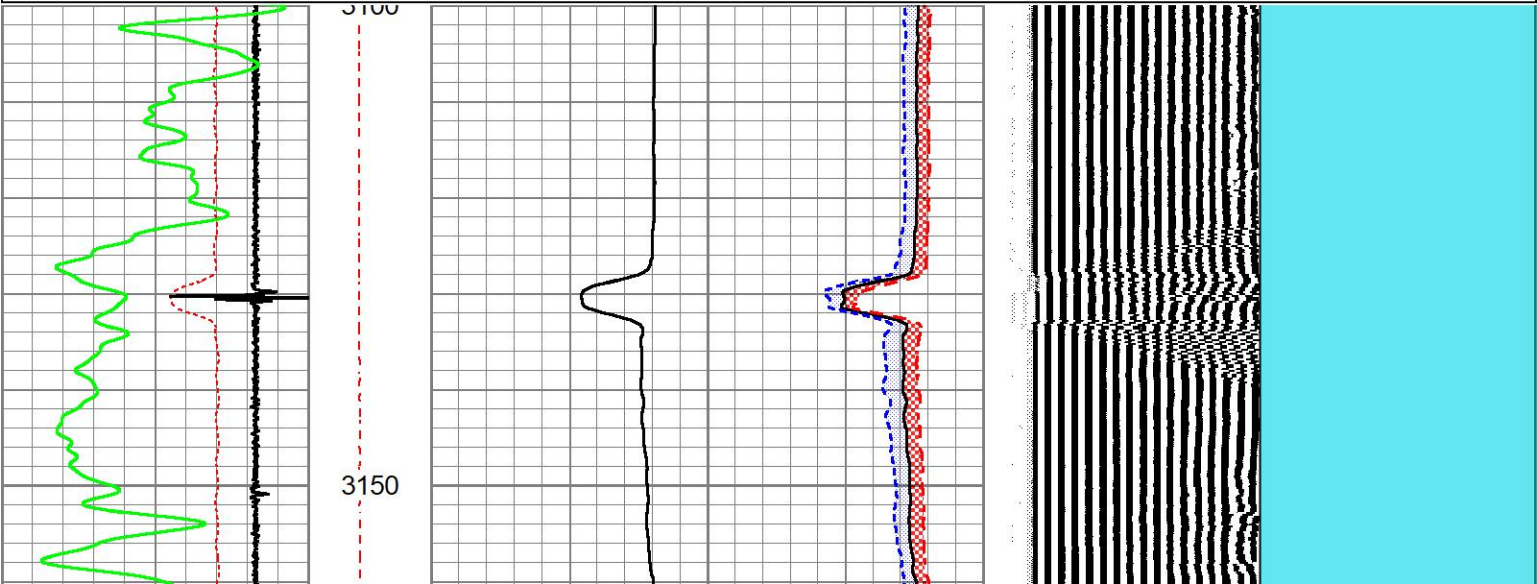
FREE PIPE SECTION

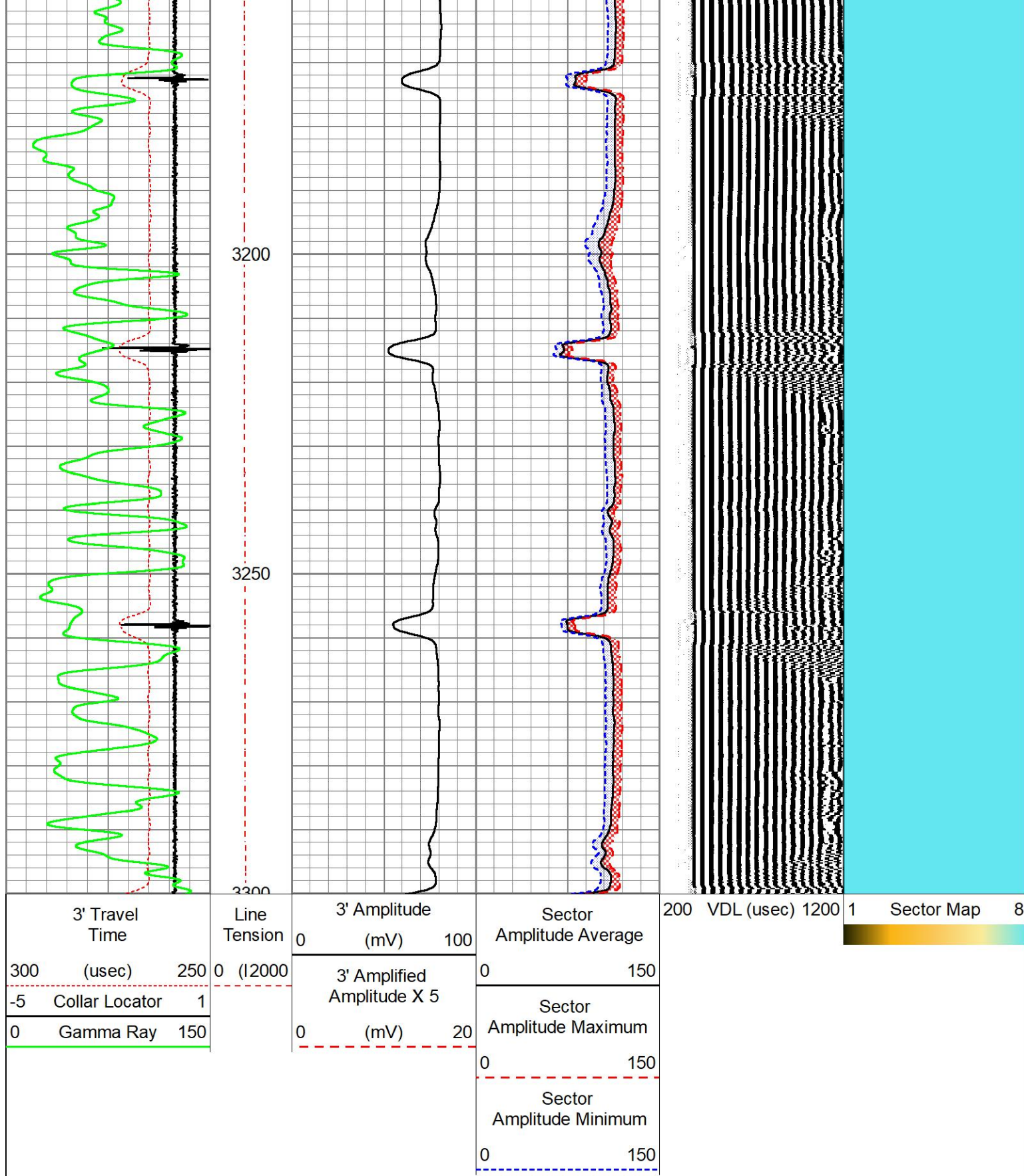
ZERO PSI APPLIED AT SURFACE

Database File
 Dataset Pathname
 Presentation Format
 Dataset Creation
 Charted by

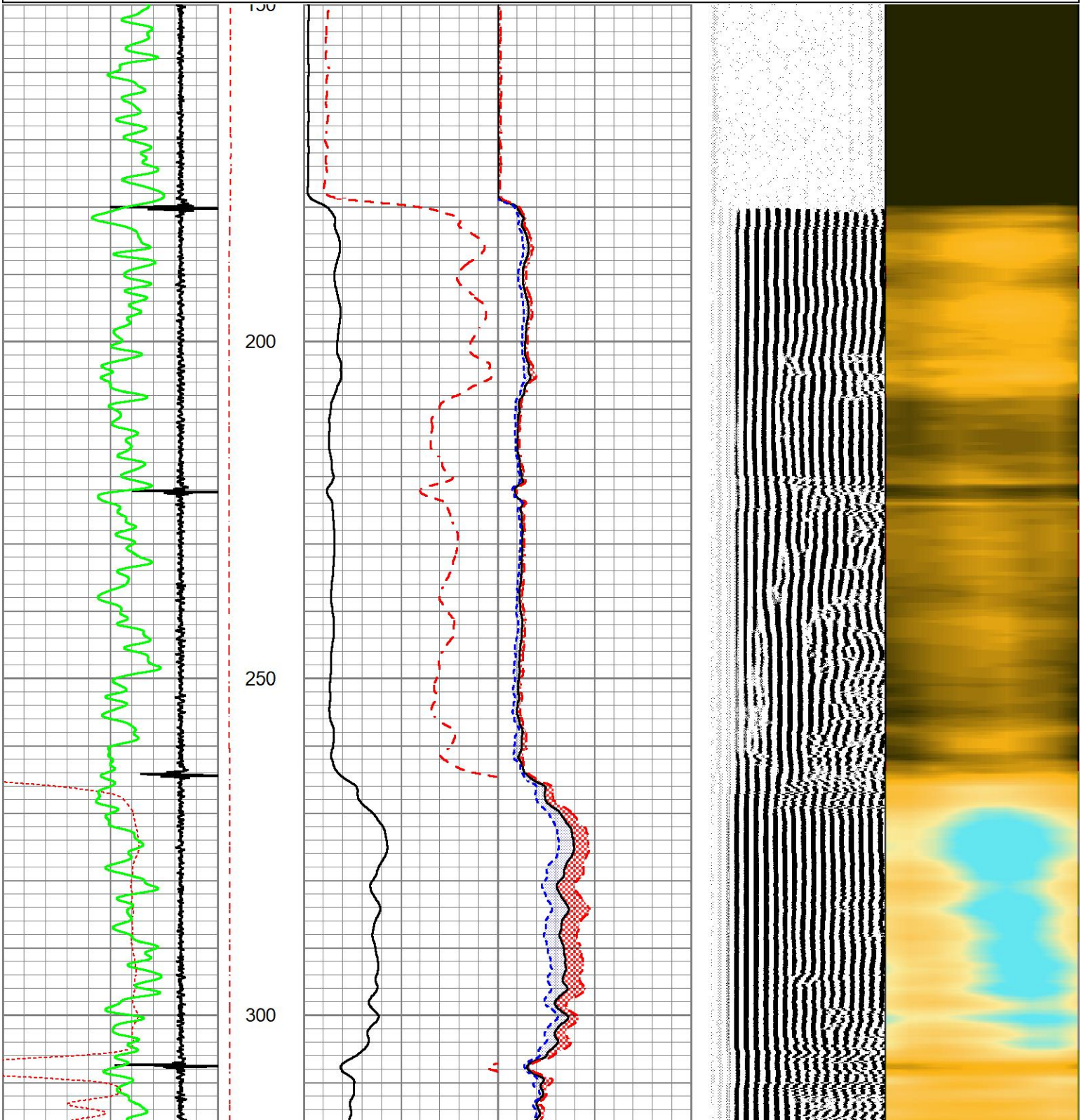
daystarpetroleum_graves3_ch_scbl_08292019.db
 pass5
 pinr_scbl
 Thu Aug 29 15:31:48 2019
 Depth in Feet scaled 1:240

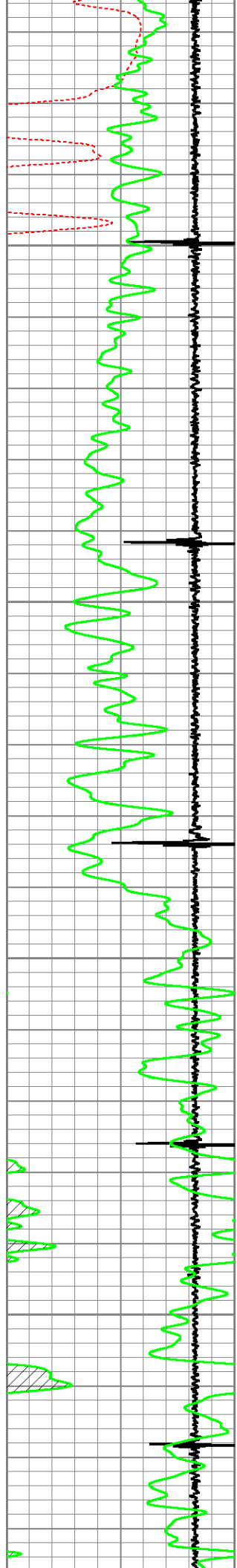
3' Travel Time	Line Tension	3' Amplitude (mV)	Sector Amplitude Average	200	VDL (usec)	1200	1	Sector Map	8
300 (usec)	0 (12000)	0 100	0 150						
-5 Collar Locator		3' Amplified Amplitude X 5	Sector Amplitude Maximum						
0 Gamma Ray		0 (mV) 20	0 150						
			Sector Amplitude Minimum						
			0 150						





3' Travel Time			Line Tension	3' Amplitude		Sector		200 VDL (usec) 1200	1	Sector Map	8	
				0	(mV)	100	Amplitude Average					
300	(usec)	250		3' Amplified Amplitude X 5		0	150					
-5 Collar Locator 1						Sector Amplitude Maximum						
0 Gamma Ray 150			0	(mV)	20	Sector Amplitude Minimum						
							Sector Amplitude Minimum					
							0 150					



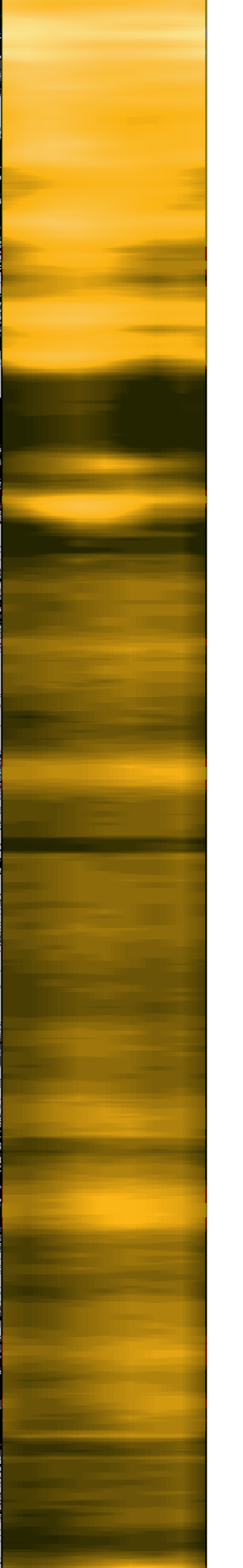
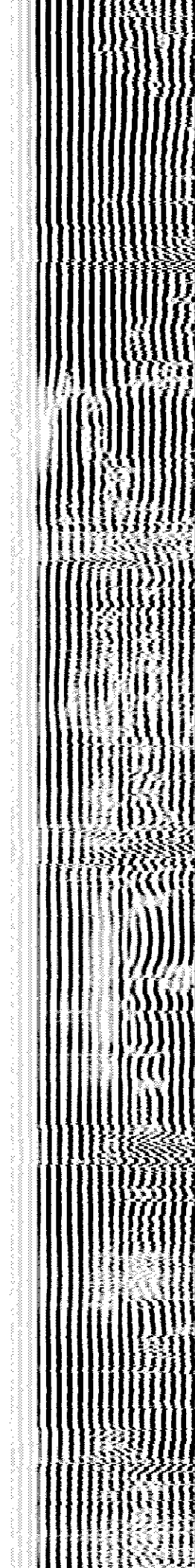
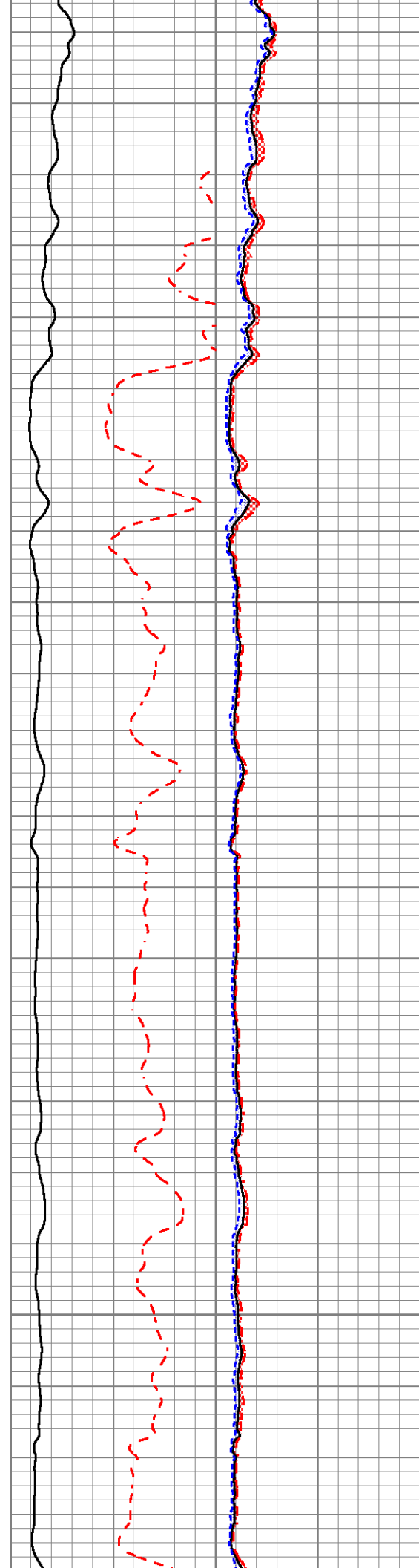


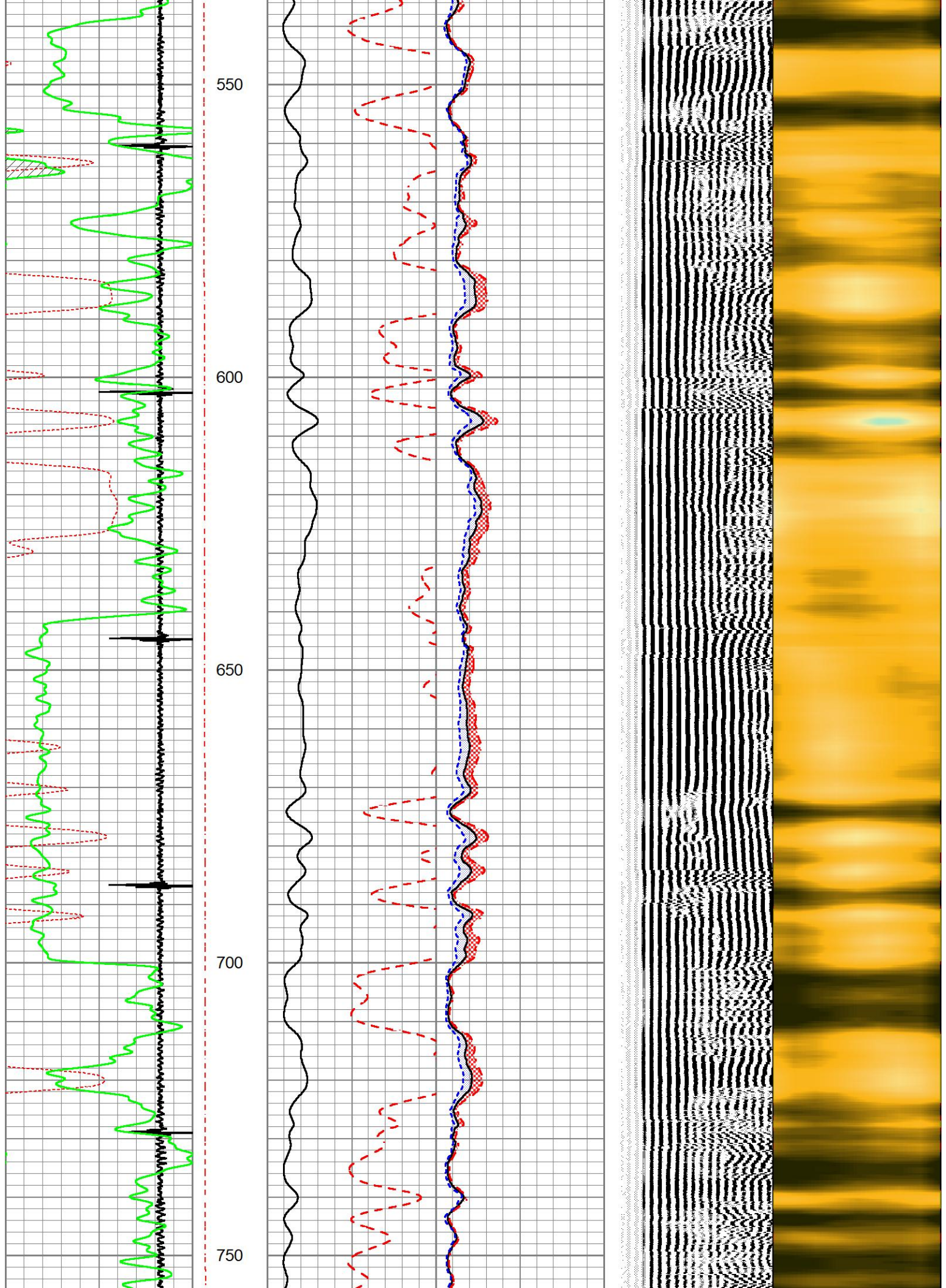
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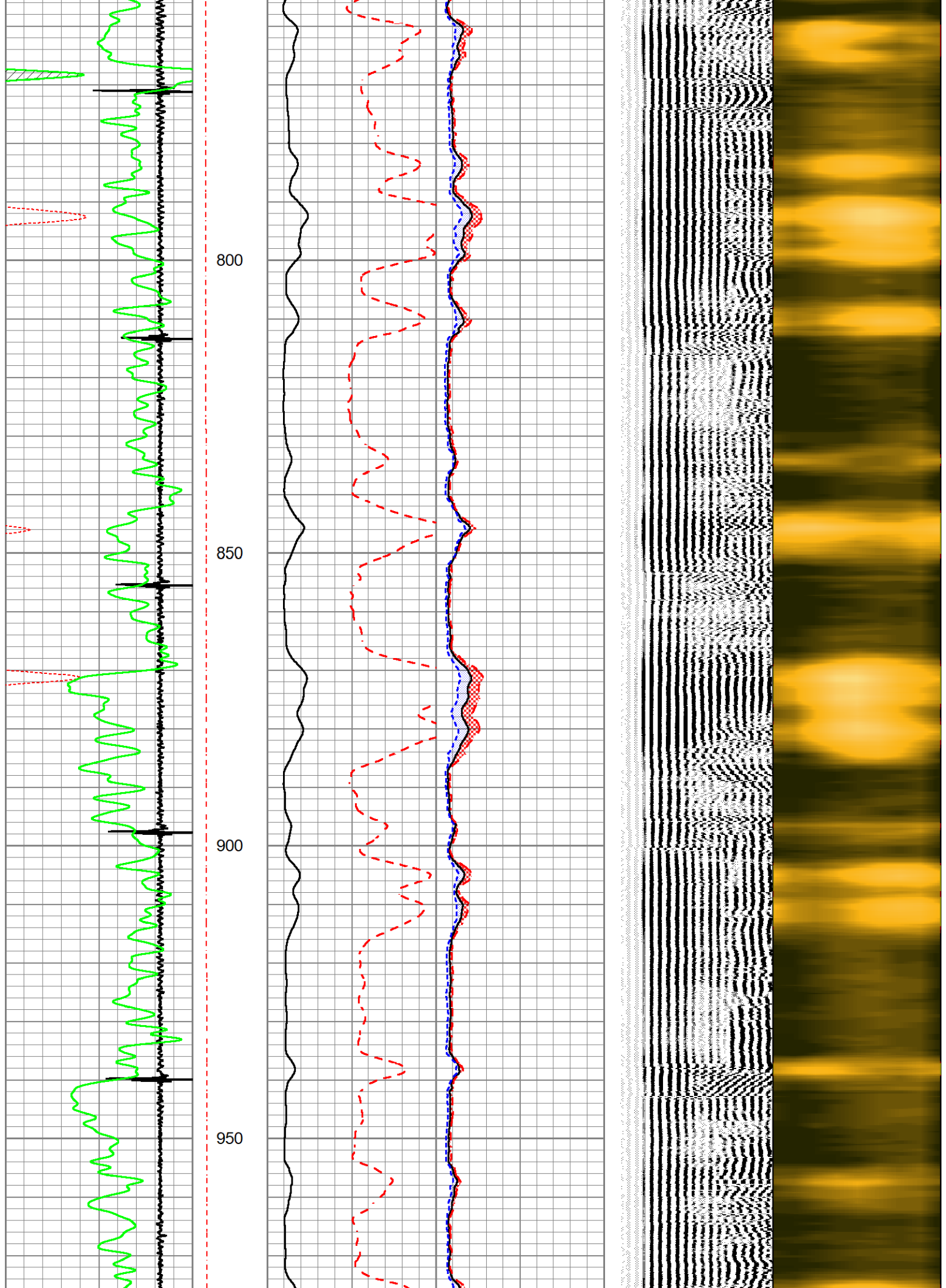
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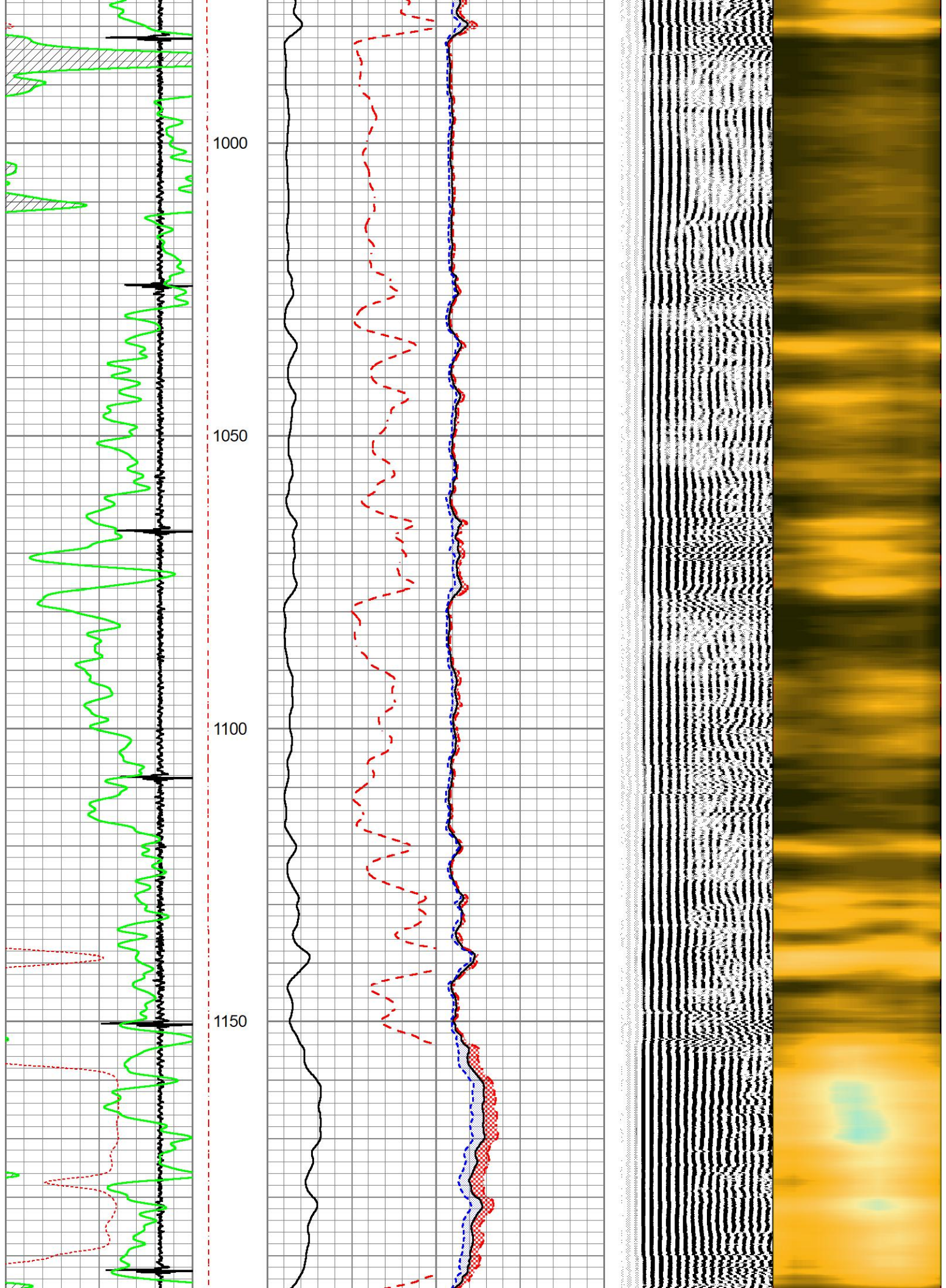
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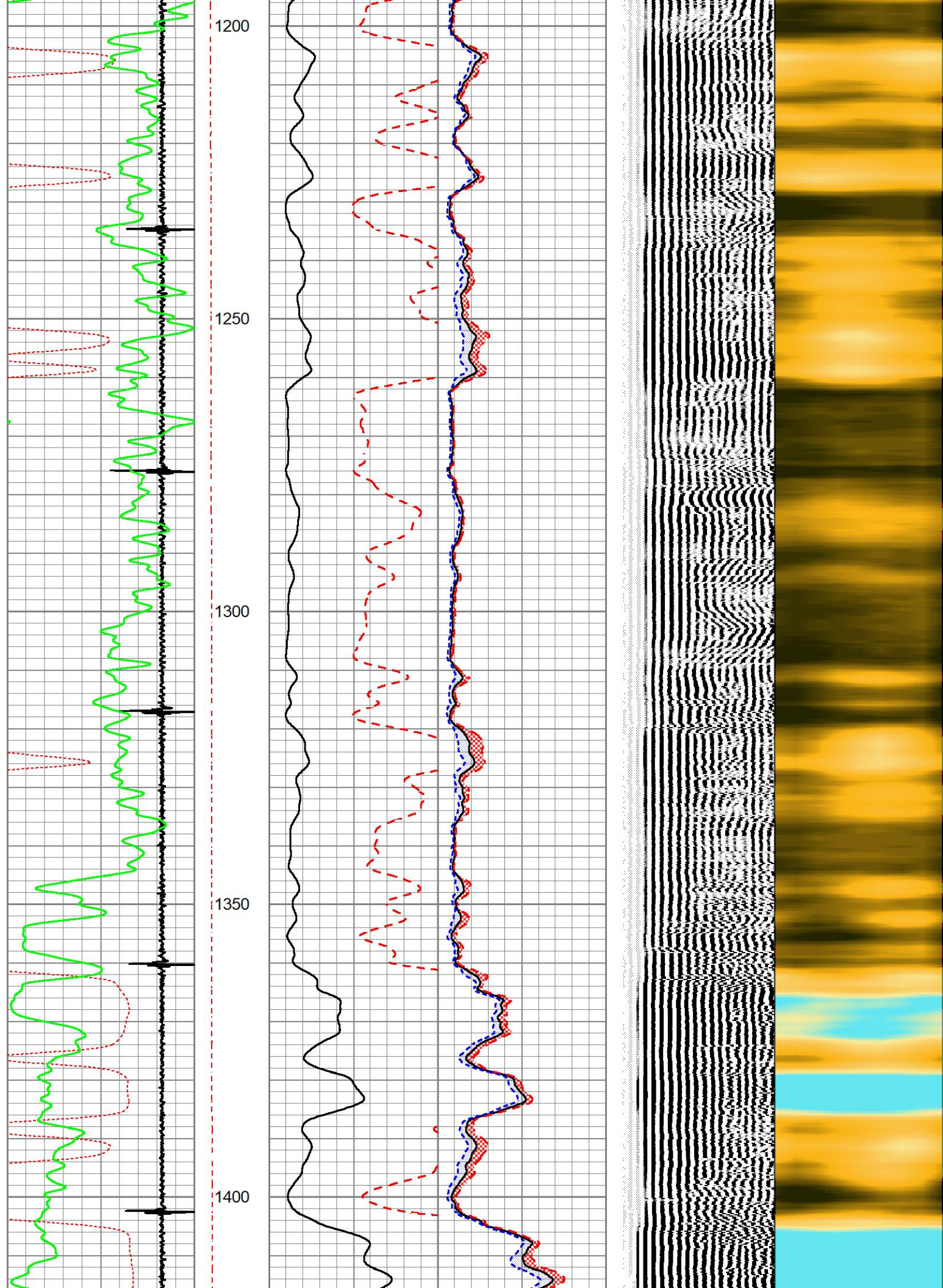
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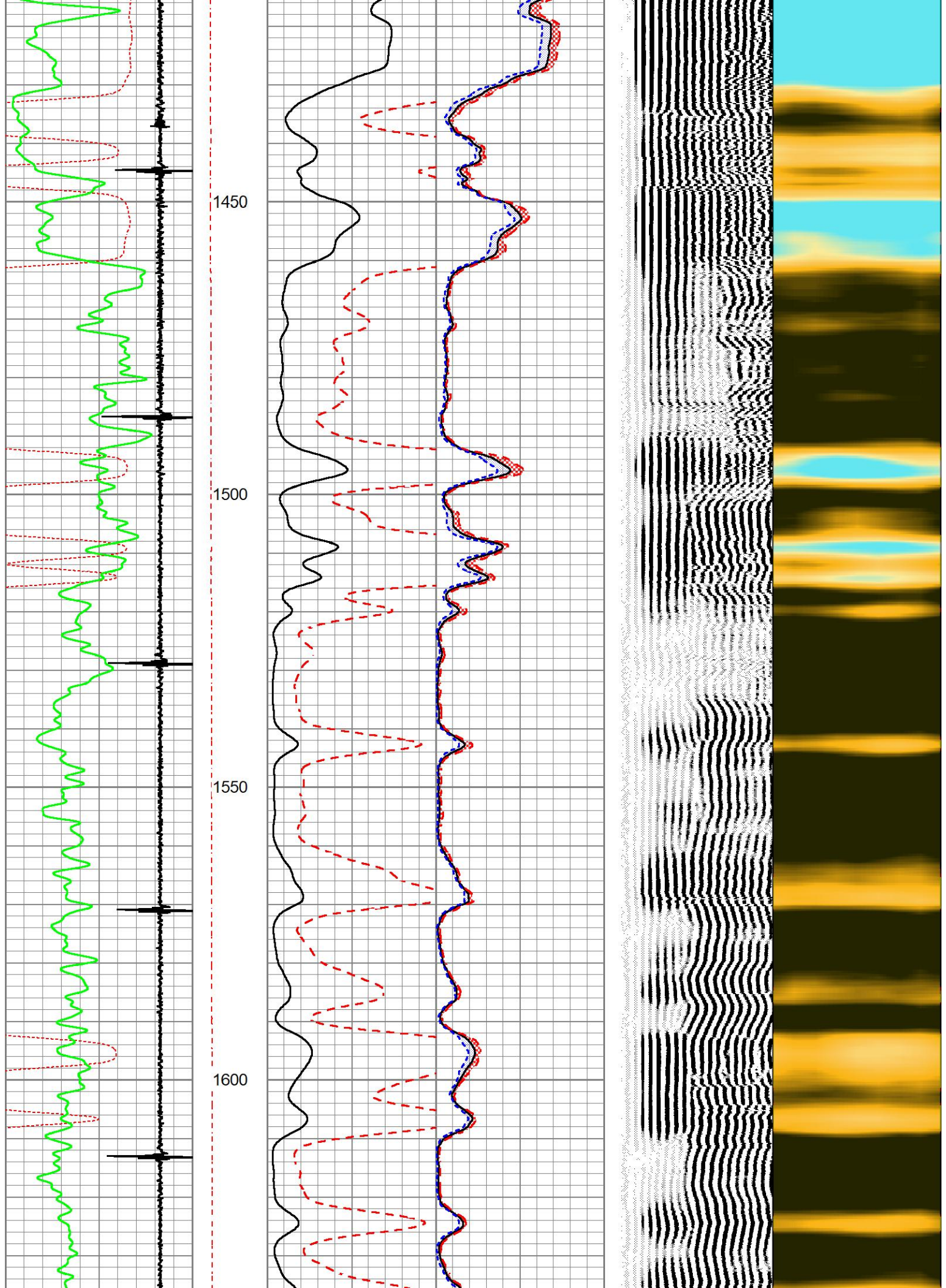


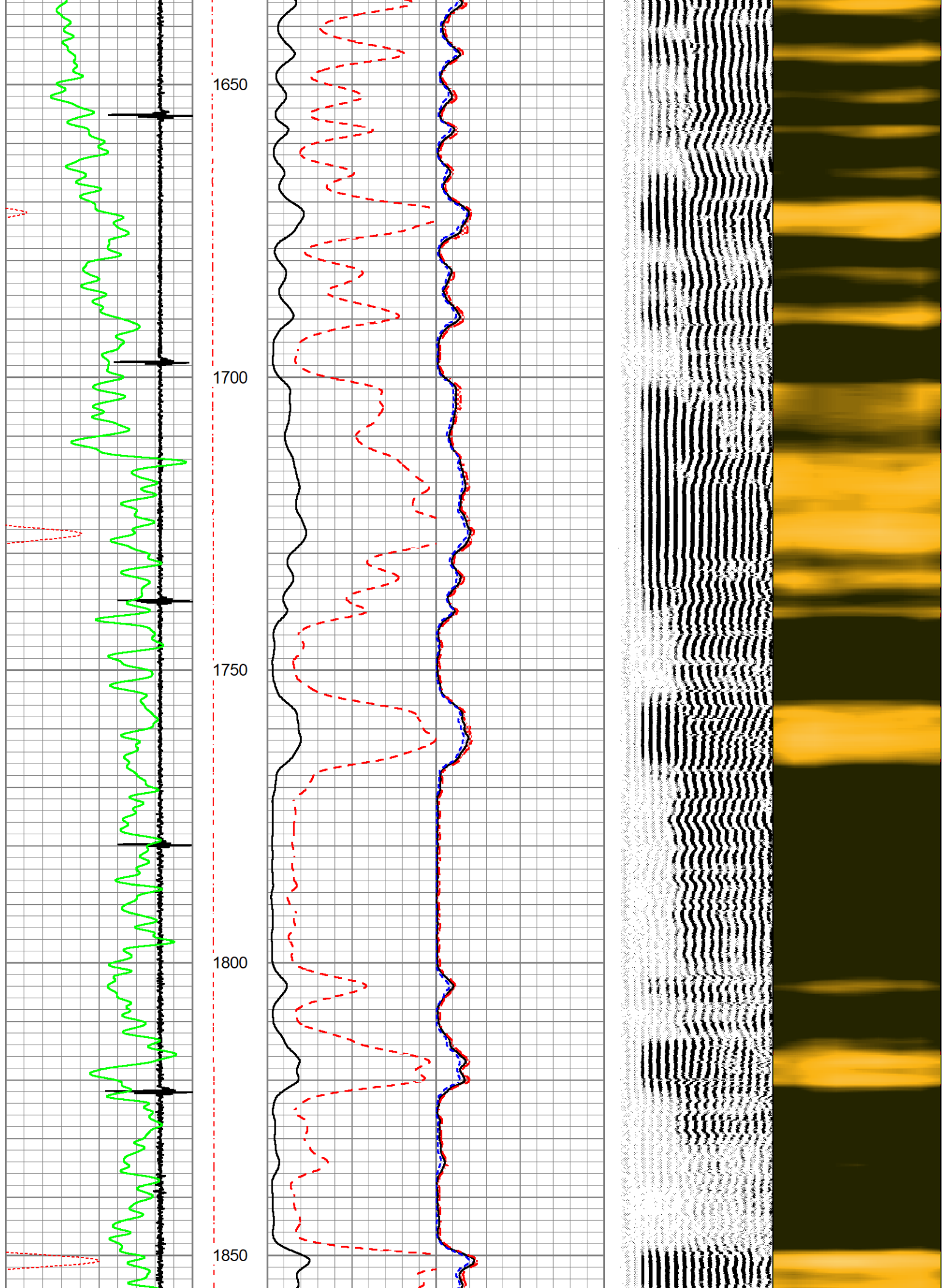


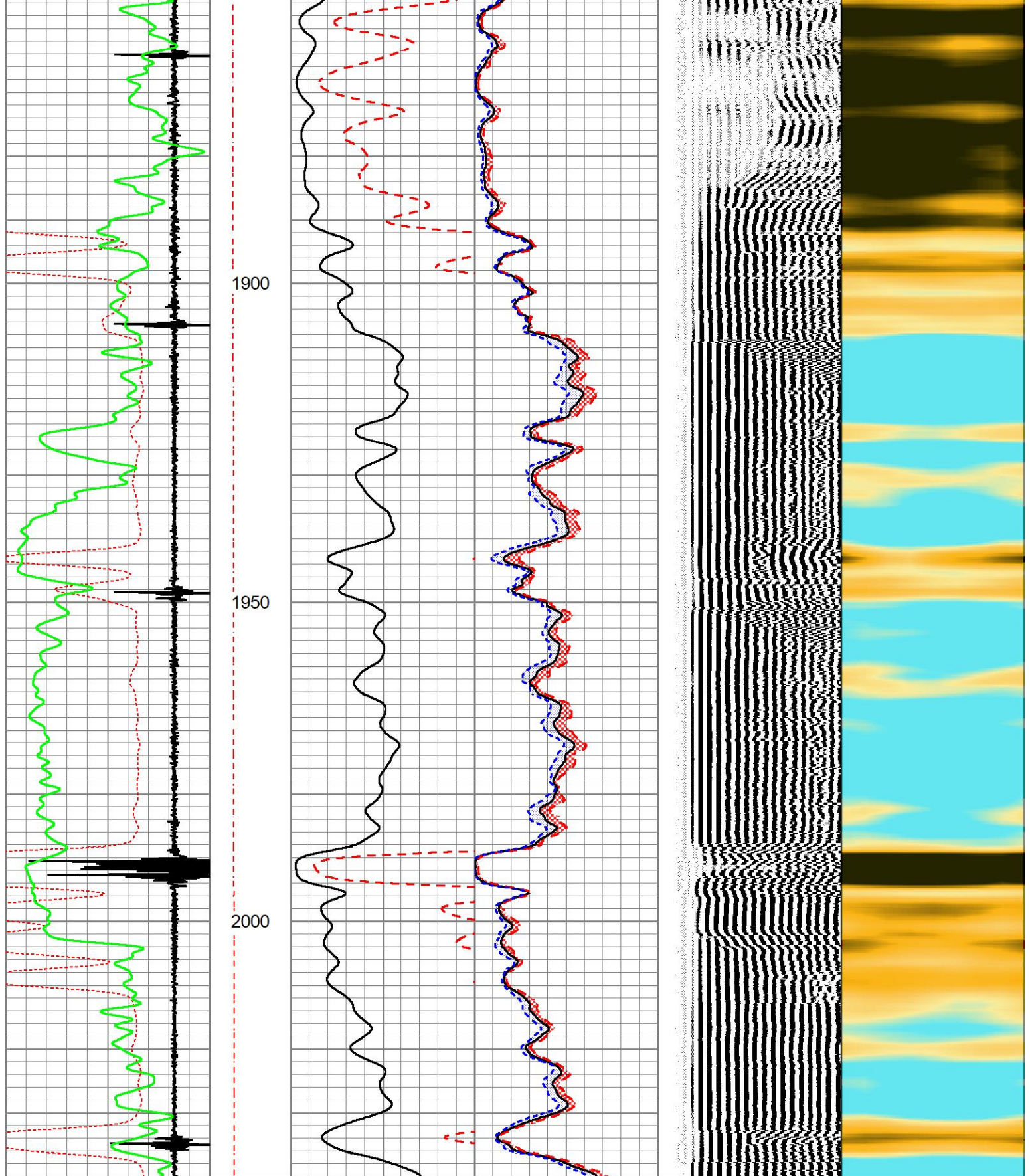












3' Travel Time			Line Tension	3' Amplitude		Sector Amplitude Average	200 VDL (usec) 1200	1 Sector Map 8
				0 (mV) 100				
300 (usec)	250	0 (12000)		3' Amplified Amplitude X 5		0 150		
-5 Collar Locator	1							
0 Gamma Ray	150		0 (mV) 20	Sector Amplitude Maximum				
				0 150				
				Sector Amplitude Minimum				

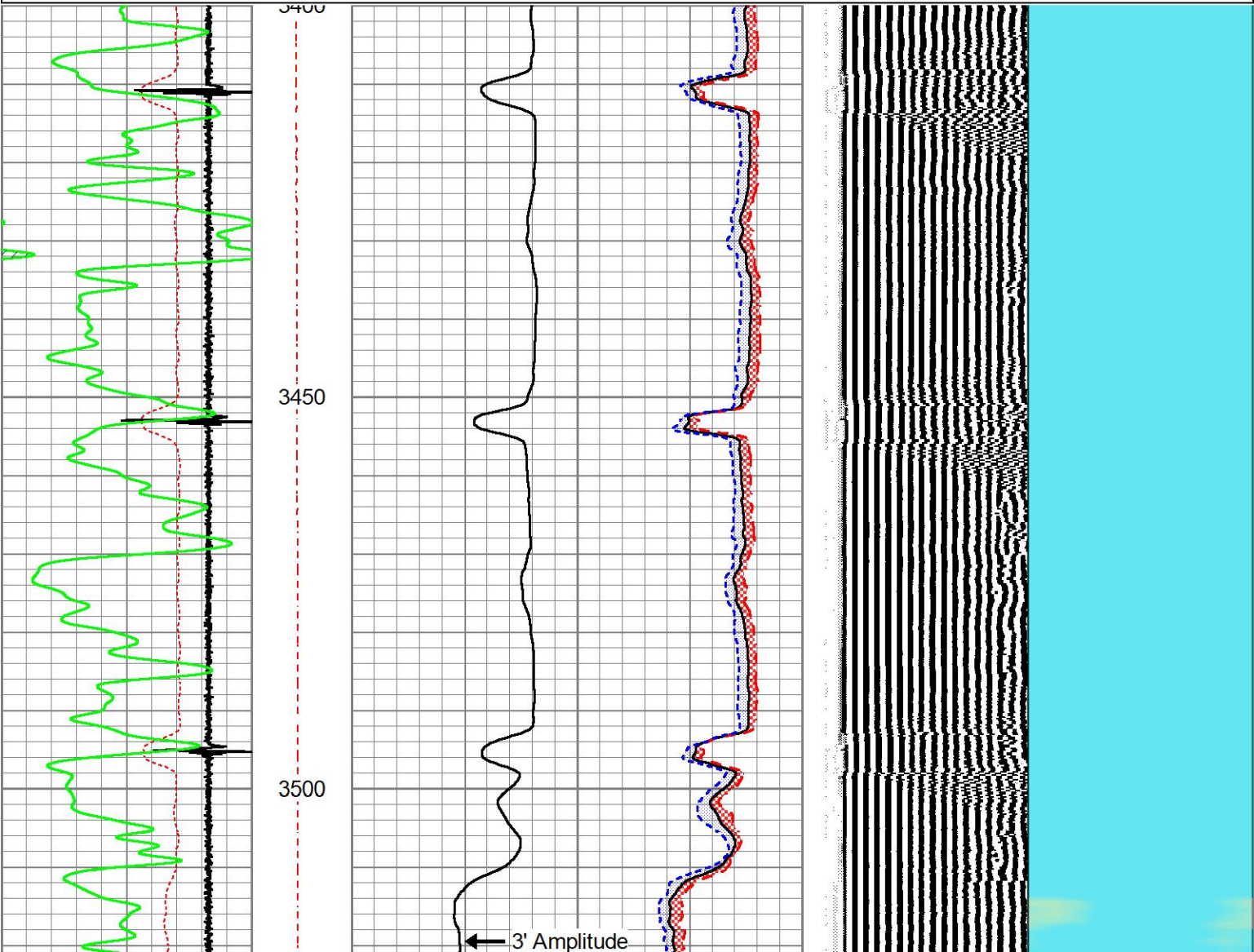


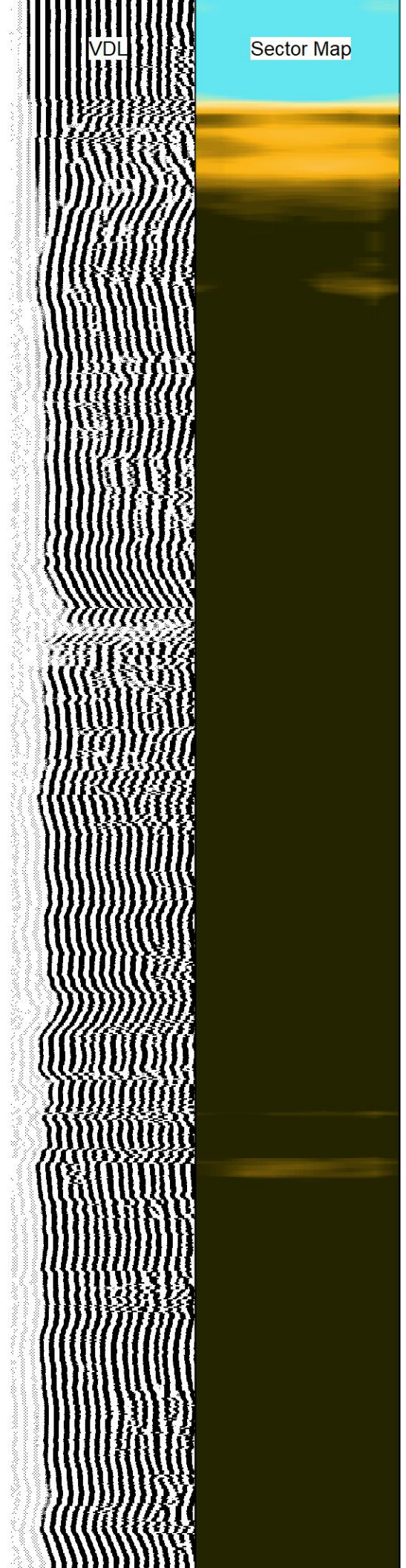
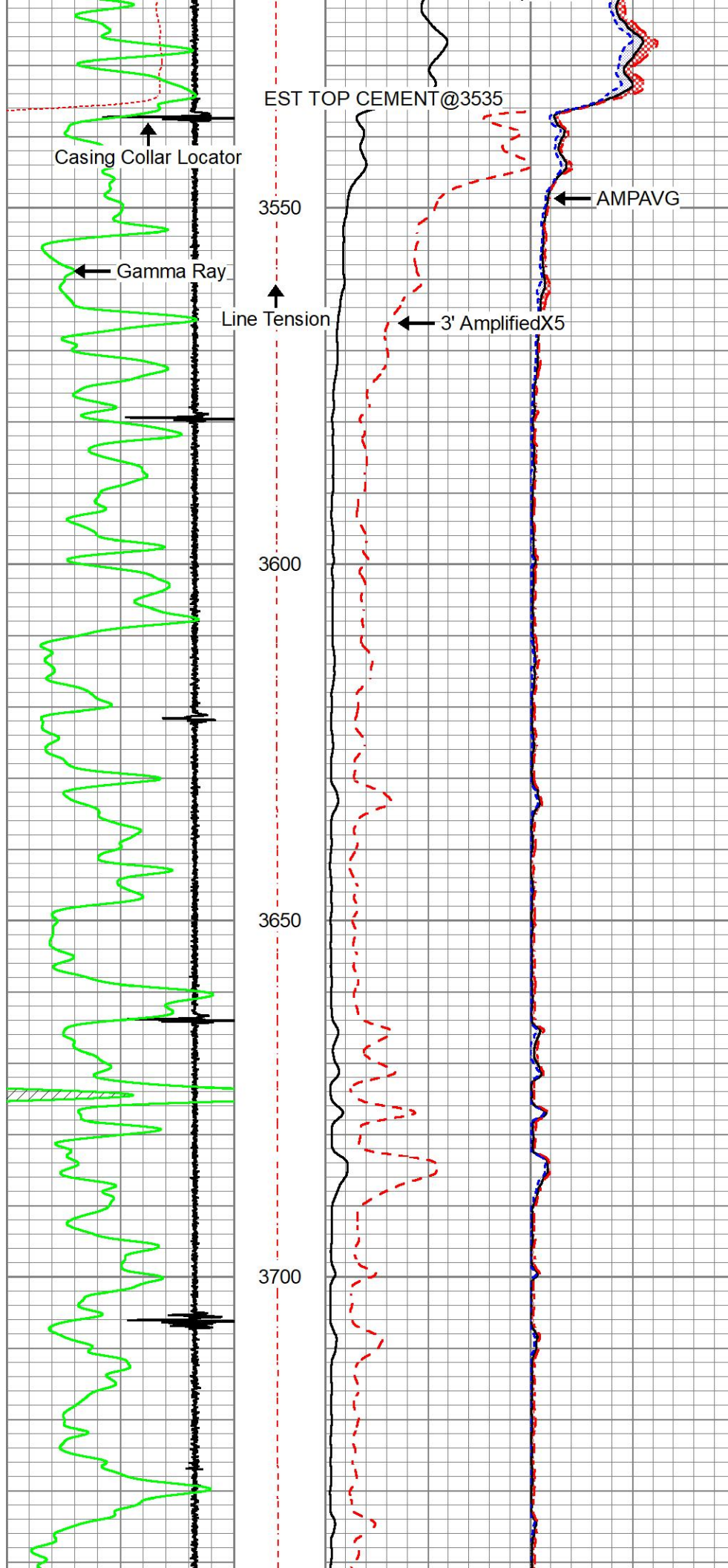
MAIN LOG

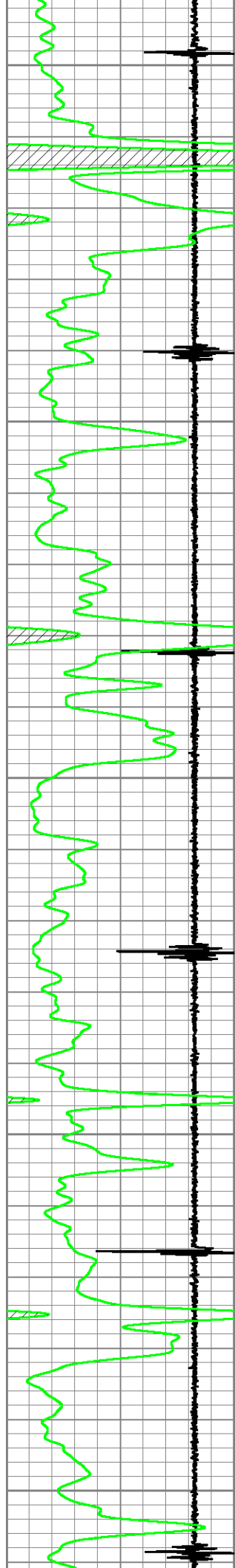
ZERO PSI APPLIED AT SURFACE

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Dataset Pathname	pass8
Presentation Format	pinr_scbl
Dataset Creation	Thu Aug 29 15:51:43 2019
Charted by	Depth in Feet scaled 1:240

3' Travel Time			Line Tension	3' Amplitude (mV)		Sector Amplitude Average	200 VDL (usec) 1200		1 Sector Map 8
300 (usec)	250	0		100					
-5 Collar Locator 1		3' Amplified Amplitude X 5							
0	Gamma Ray 150	0		20					
						Sector Amplitude Maximum			
						0 150			
						Sector Amplitude Minimum			
						0 150			







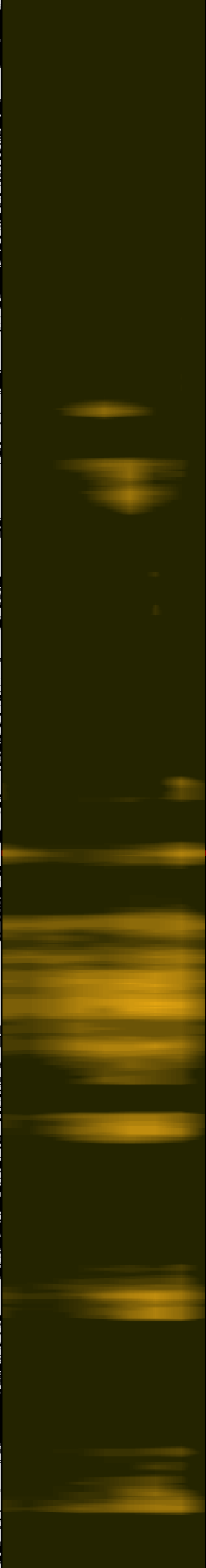
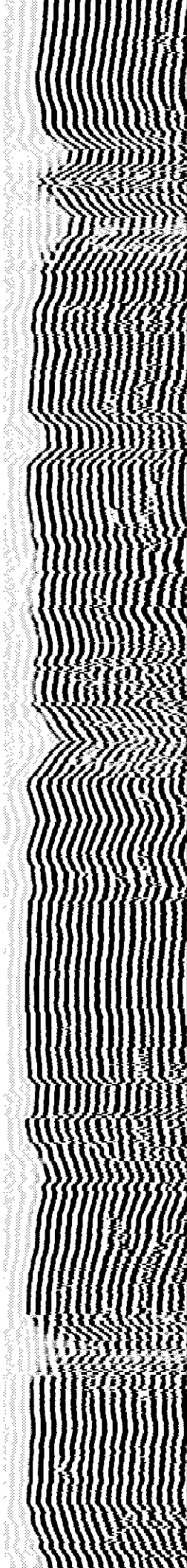
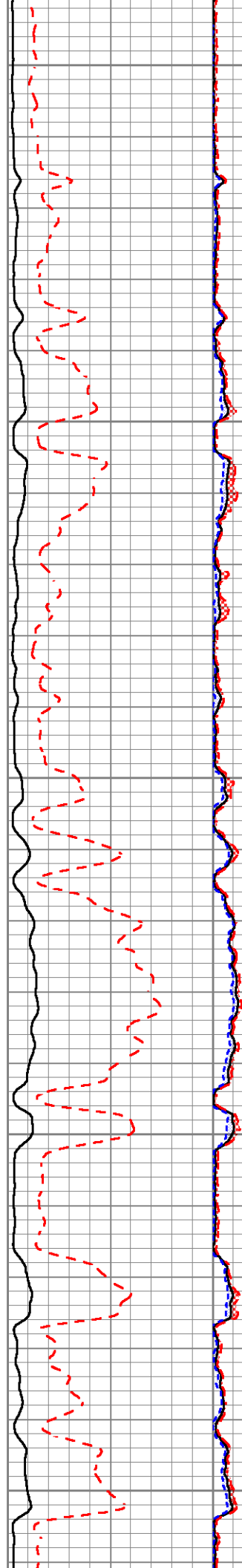
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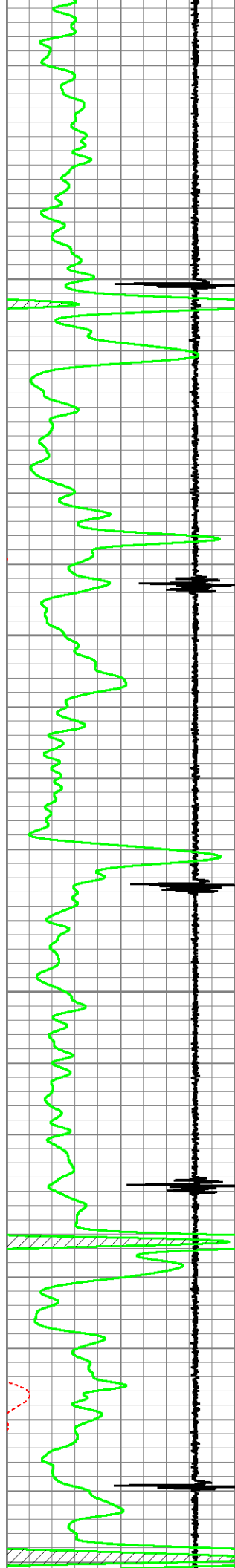
3800

3850

3900

3950



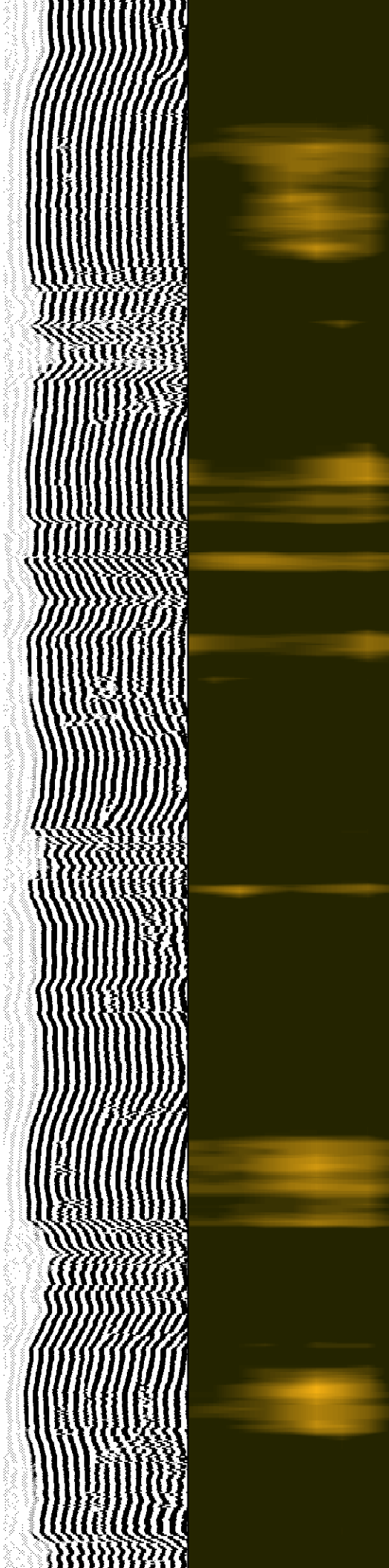
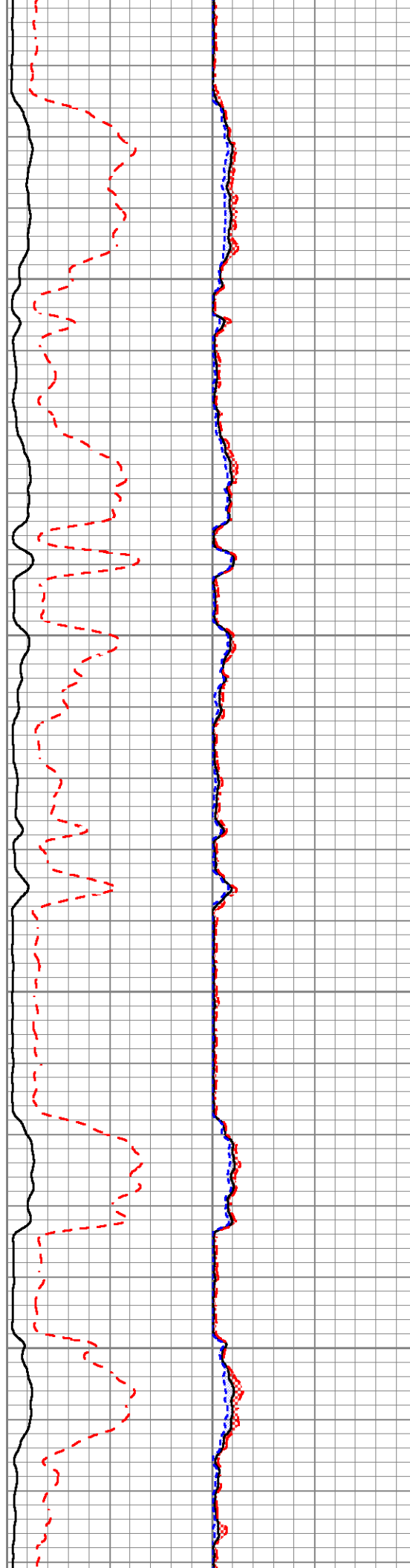


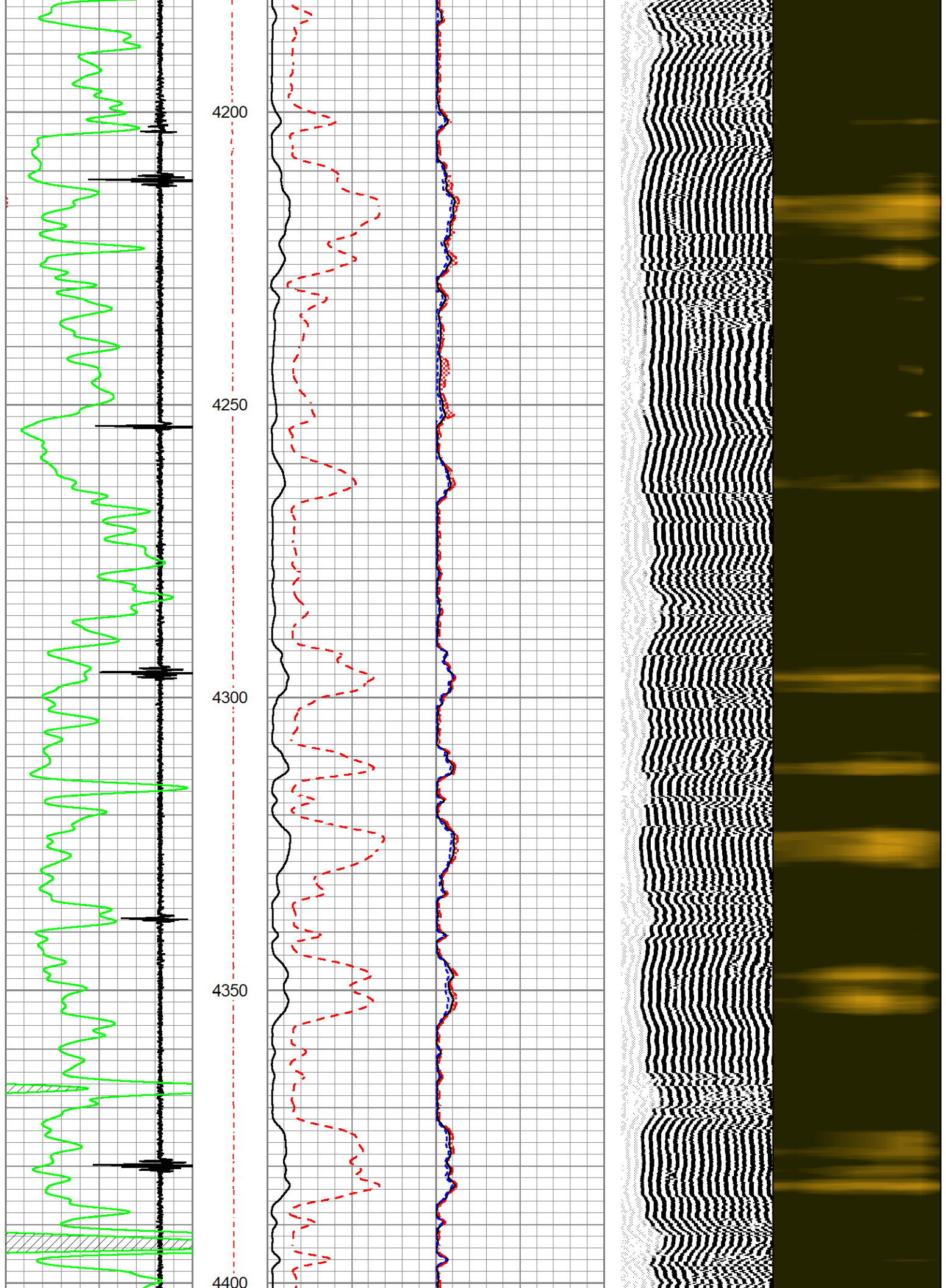
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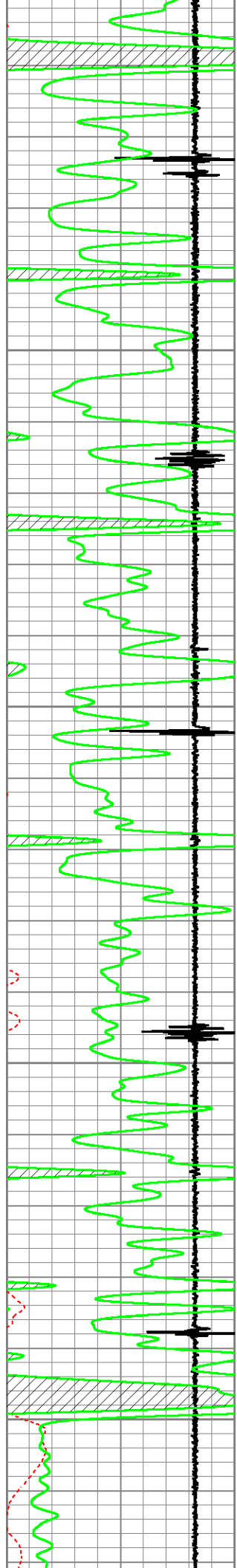
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4100

4150





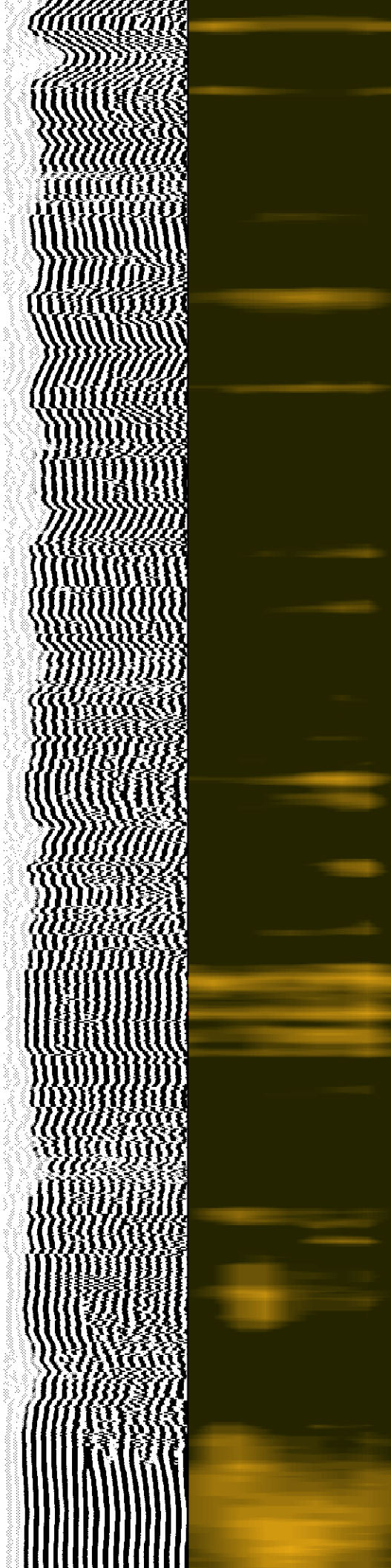
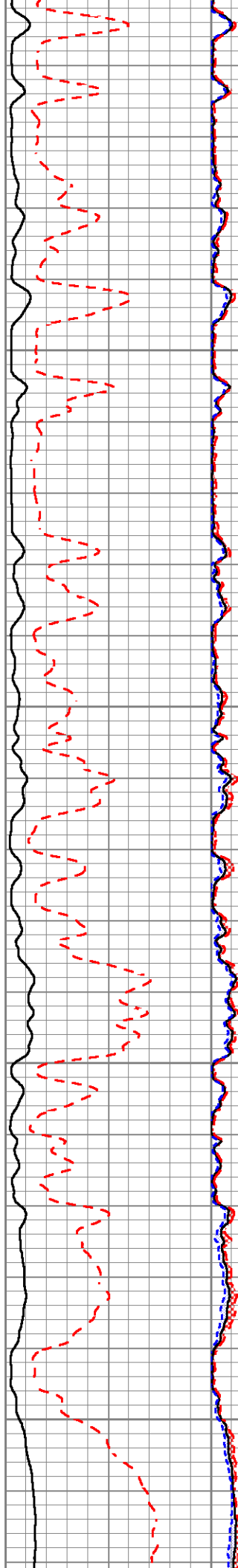


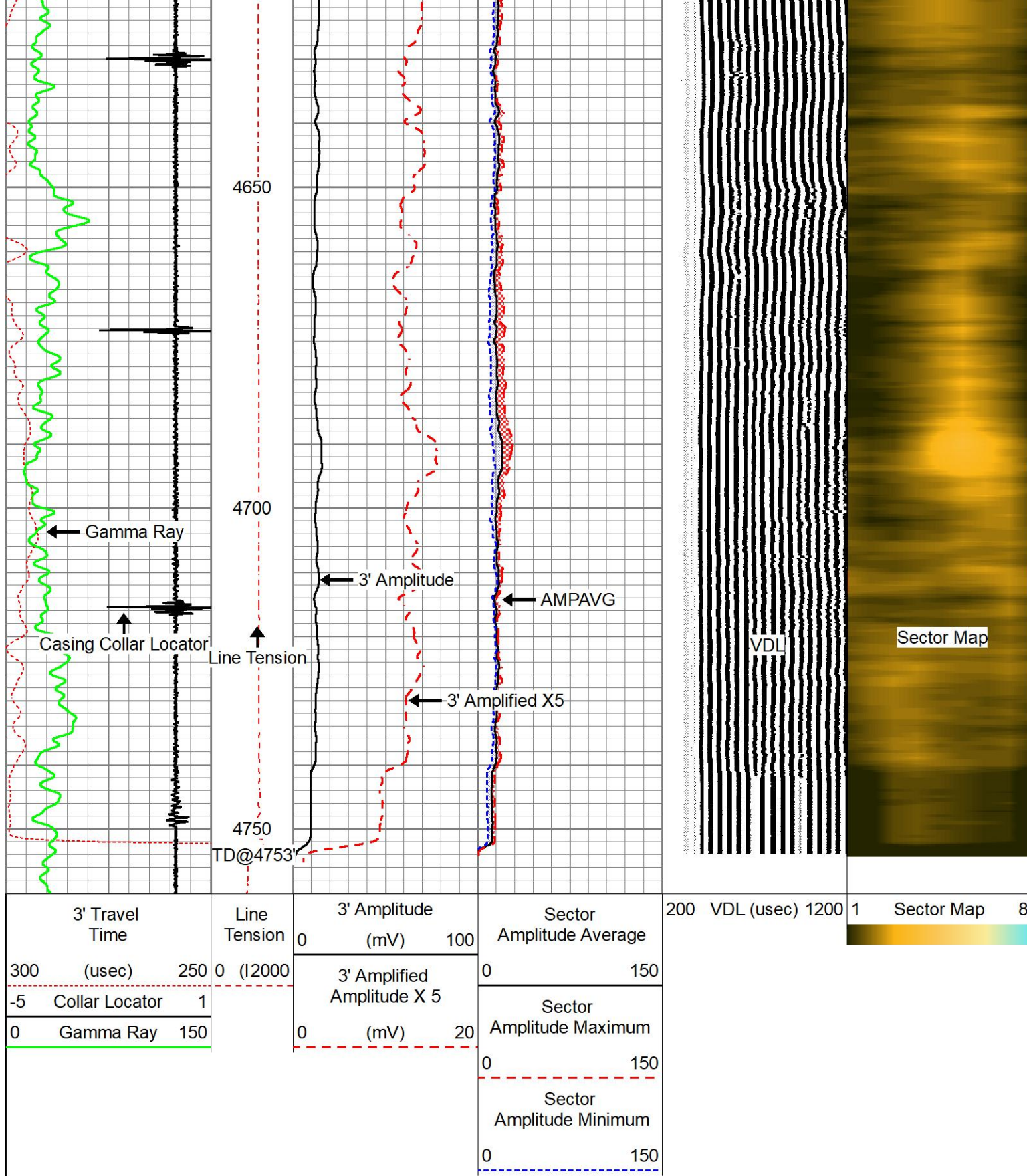
4450

4500

4550

4600







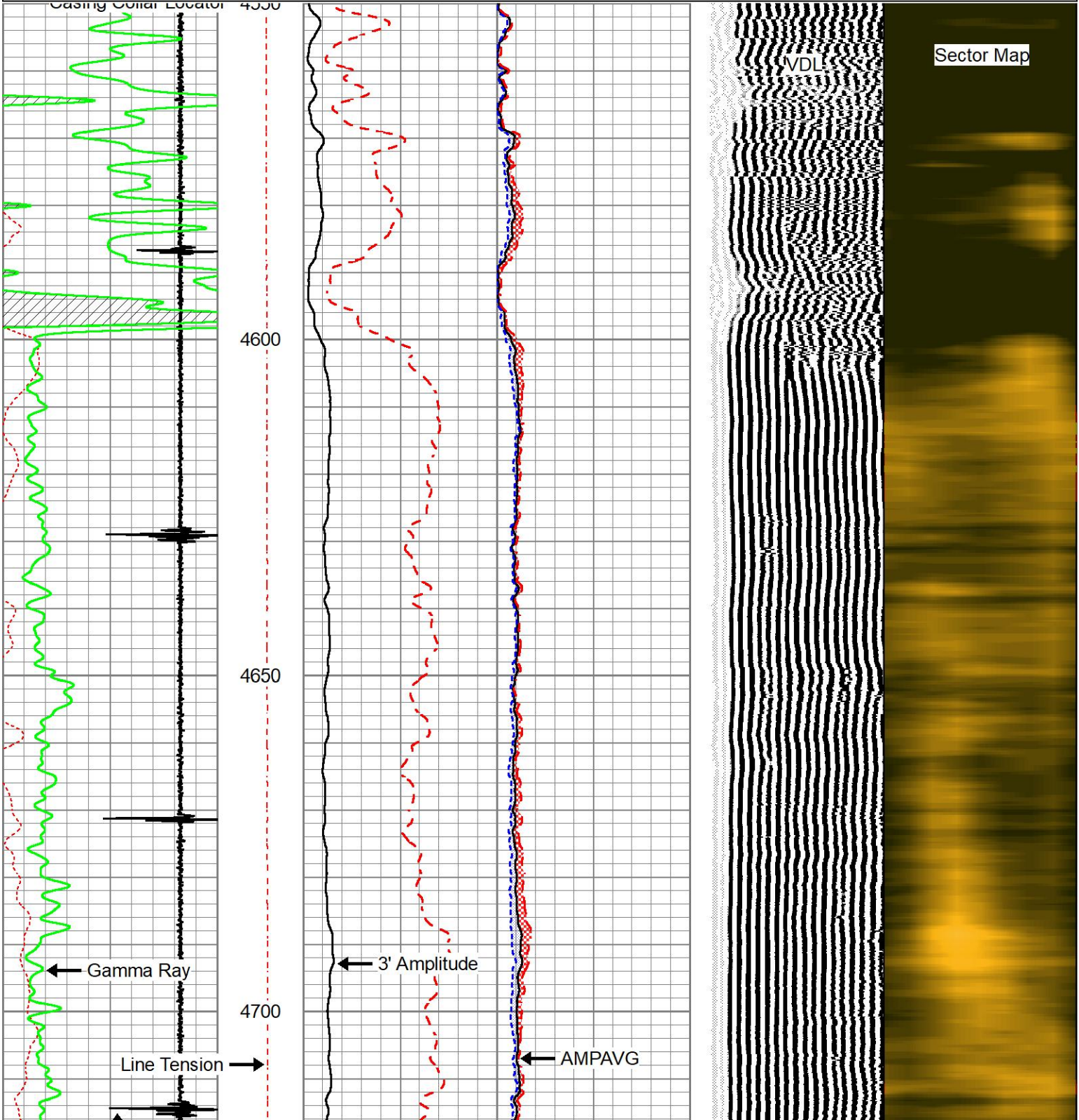
PIONEER
Pioneer Energy Services

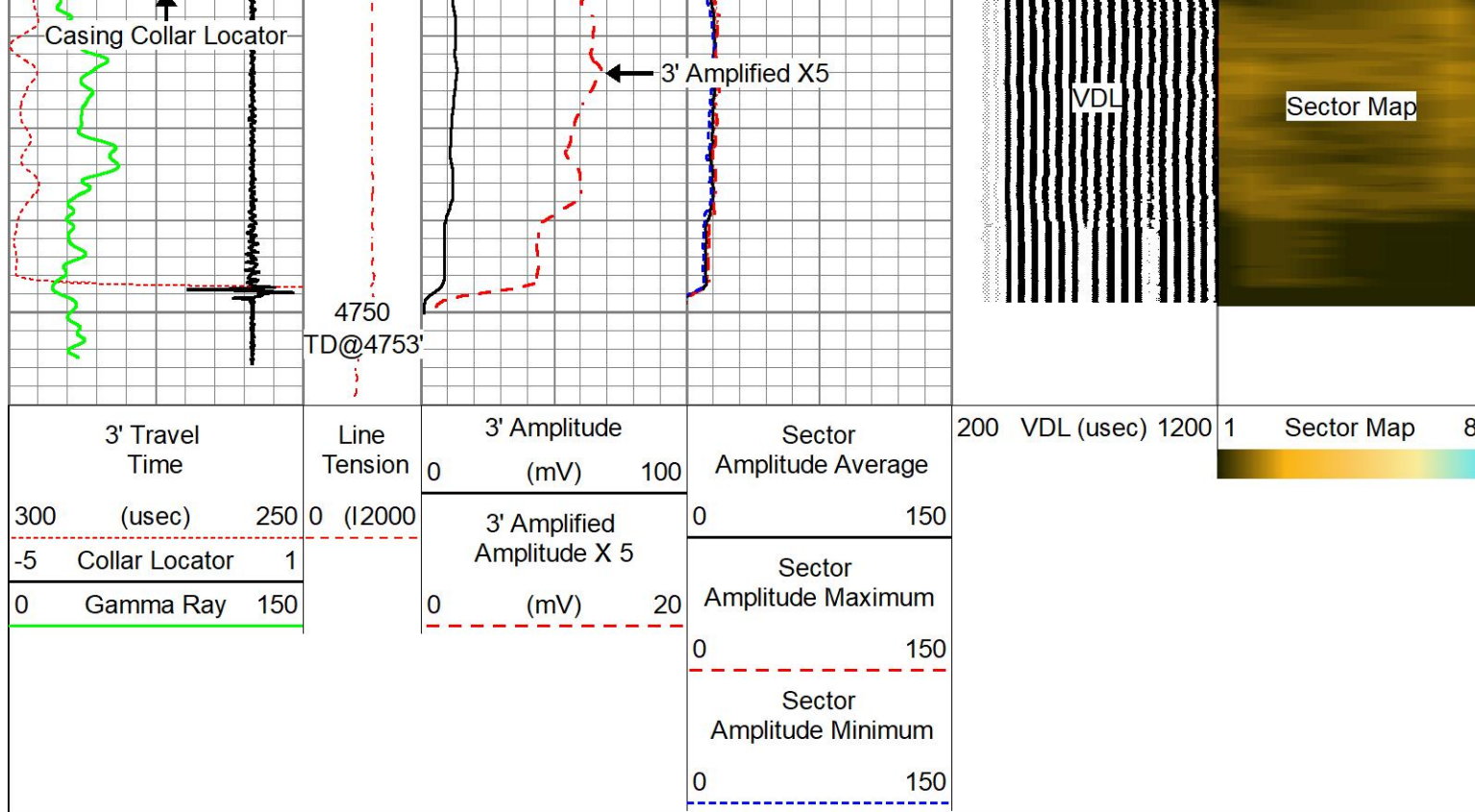
REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

Database File	daystarpetroleum_graves3_ch_scbl_08292019.db
Dataset Pathname	pass7
Presentation Format	pinr_scbl

3' Travel Time (usec)	Line Tension 0 (12000)	3' Amplitude (mV)	Sector Amplitude Average	200 VDL (usec) 1200	1 Sector Map 8
		0 100	0 150		
		3' Amplified Amplitude X 5	Sector Amplitude Maximum		
		0 (mV) 20	0 150		
-5 Collar Locator 1			Sector Amplitude Minimum		
0 Gamma Ray 150			0 150		





Calibration Report	
Database File	daystarpetroleum_graves3_ch_scbl_08292019.db
Dataset Pathname	pass8
Dataset Creation	Thu Aug 29 15:51:43 2019

Gamma Ray Calibration Report		
Serial Number:	111032	
Tool Model:	2 3/4" Probe	
Performed:	Tue Apr 03 09:45:00 2018	
Calibrator Value:	1.0	
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	/cps

Segmented Cement Bond Log Calibration Report		
Serial Number:	PR-012	
Tool Model:	RBL-D	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	3210.199	ft

Master Calibration, performed Thu Aug 29 15:29:30 2019:							
	Raw (v)		Calibrated (mv)		Results		
	Zero	Cal	Zero	Cal	Gain	Offset	
3'	-0.013	2.113	0.700	71.921	33.504	1.136	
CAL	-0.020	2.499					
5'	-0.013	1.878	0.700	71.921	37.669	1.184	
SUM							
S1	0.049	2.045	0.000	100.000	50.106	-2.446	
S2	0.042	2.092	0.000	100.000	48.785	-2.037	

S2	0.042	2.002	0.000	100.000	48.700	-2.007
S3	0.032	2.109	0.000	100.000	48.146	-1.530
S4	0.029	2.069	0.000	100.000	49.020	-1.439
S5	0.042	2.032	0.000	100.000	50.253	-2.119
S6	0.034	2.017	0.000	100.000	50.443	-1.725
S7	0.024	2.010	0.000	100.000	50.364	-1.211
S8	-0.011	1.969	0.000	100.000	50.493	0.576

Air Zero Calibration, performed Thu Aug 29 14:17:29 2019:

	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



Company DAYSTAR PETROLEUM, INC
Well GRAVES #3
Field DAMME
County FINNEY
State KANSAS