



RADIAL BOND LOG WITH GAMMA RAY

MIDWEST WIRELINE

Comp. Castle Resources, INC		Company Castle Resources, INC	
Well Boden #1		Well Boden #1	
Field Single West		Field Single West	
Co. Osborne		County Osborne	
State Kansas		State Kansas	
Location: API # : 15-141-20497-00-00		Other Services	
SEC 10 TWP 10S RGE 12W		Elevation 1794	
Permanent Datum GL		K.B. 1799	
Log Measured From KB 5' Above Perm. Datum		D.F. GL. 1794	
Drilling Measured From KB			
Date of Service 3-31-23			
Run Number ONE			
Depth Driller or PBTD 3150			
Depth Logger 3102			
Bottom Log Interval 3100			
Top Log Interval 2150			
Open Hole Size 7.875			
Type Fluid WATER			
Fluid Level 0			
Fluid Density 8.4			
Max. Recorded Temperature 108			
Max. Wellhead Pressure 0			
Wellhead Connection MAST			
Estimated Cement Top 2250			
Unit Number 106			
Wireline Size .288			
Location HAYS			
Recorded By J. TROUT			
Witnessed By			
Size		Wt/Ft	
Tubing Record		Top	
Surface Casing 8.625		23	
Production Casing 4.54		10.5	
Liner Record		Bottom	

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

Luray, Ks K18 & 281 JCT, 5 N to Hunter Rd,
Approx 3 E to 677, 3/4 N, E into

THANK YOU FOR USING MIDWEST WIRELINE LLC!

Your Midwest Wireline Crew

Tool Data - Services

Serial Number

Engineer: J. TROUT
Operator:
Operator:
Operator:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\castle_resources_boden #1.db
Dataset field/well/SCBL/pass4.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 108	CASEOD in 4.5	CASETHCK in 0	CASEWGHT lb/ft 10.5	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.08
PERFS 0	PPT usec 0	SRFTEMP degF 0	TDEPTH ft 3102				

Variable Description

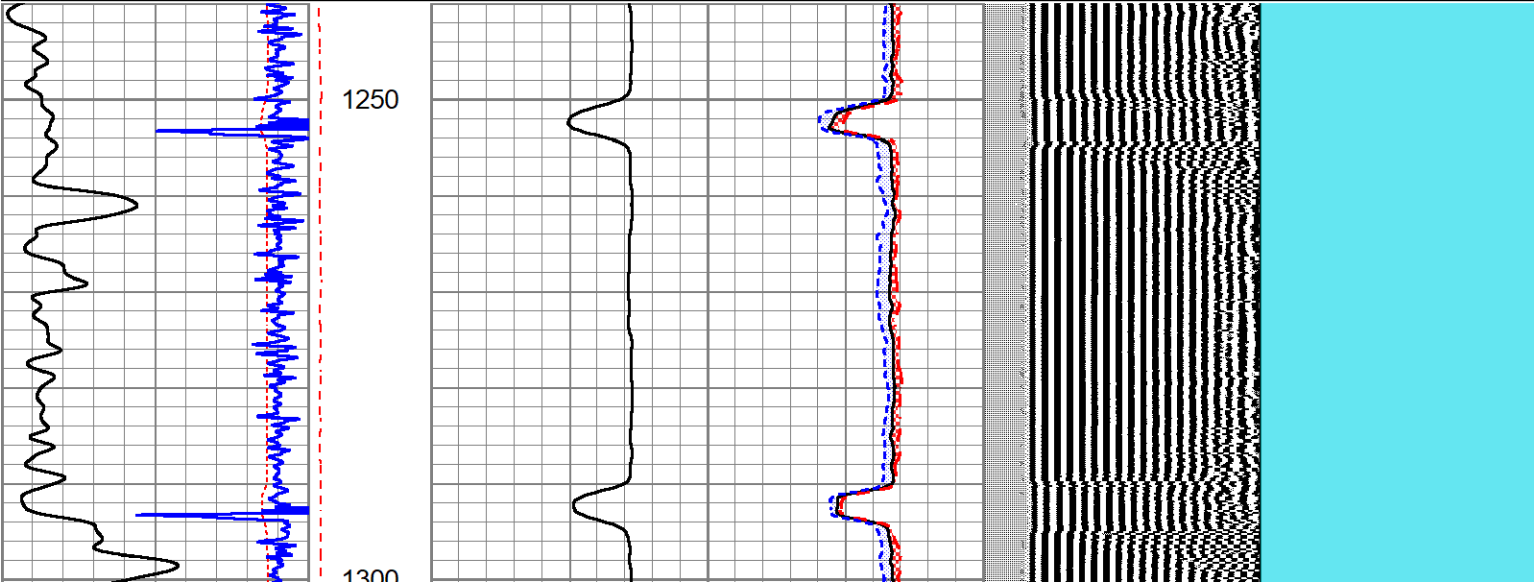
BOREID : Borehole I.D.	CASEWGHT : Casing Weight	PERFS : Perforation Flag
BOTTEMP : Bottom Hole Temperature	MAXAMPL : Maximum Amplitude	PPT : Predicted Pipe Time
CASEOD : Casing O.D.	MINAMPL : Minimum Amplitude	SRFTEMP : Surface Temperature
CASETHCK : Casing Thickness	MINATTN : Minimum Attenuation	TDEPTH : Total Depth

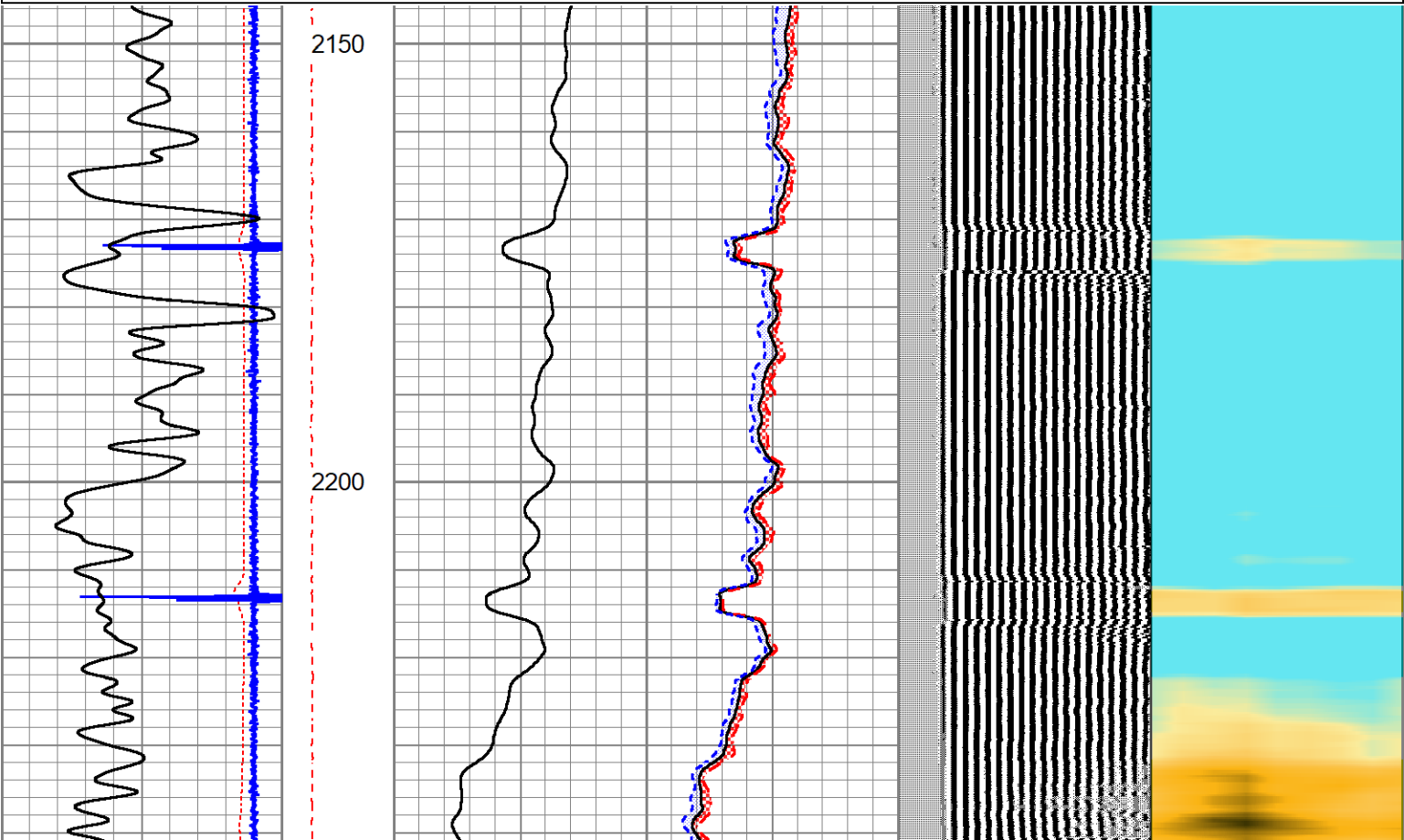
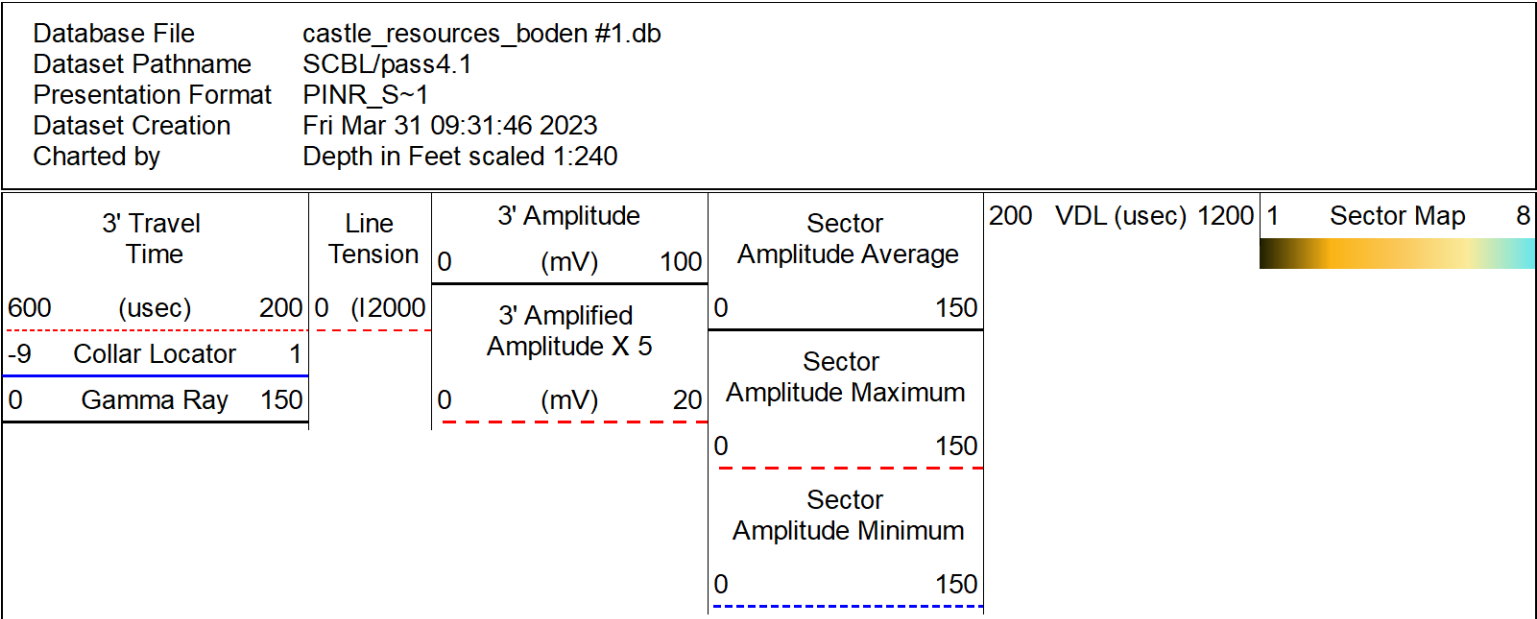
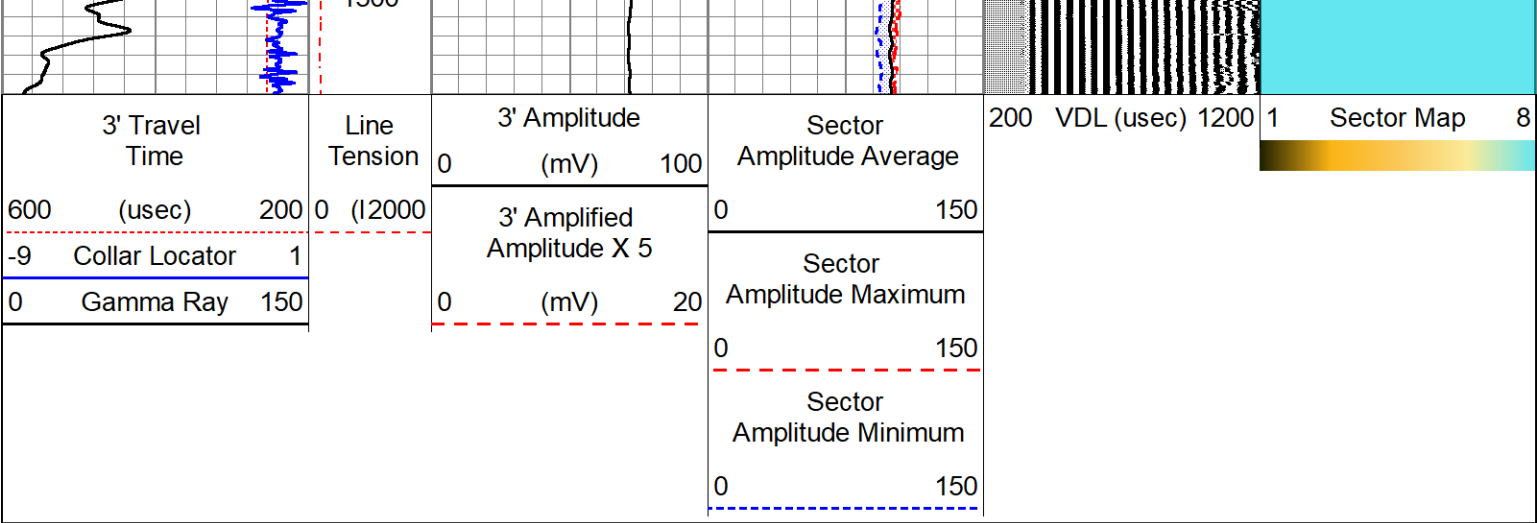


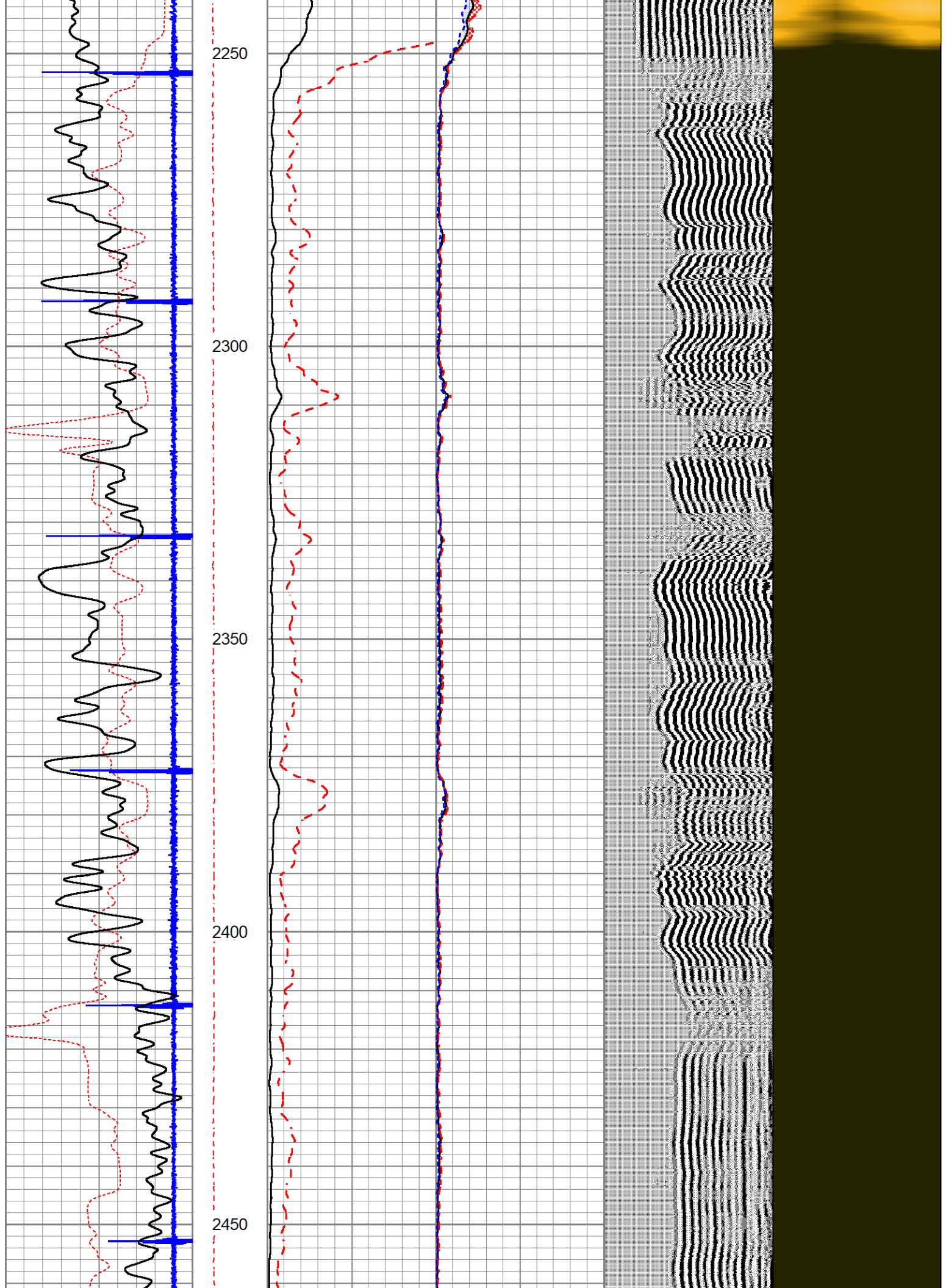
Free Pipe Pass

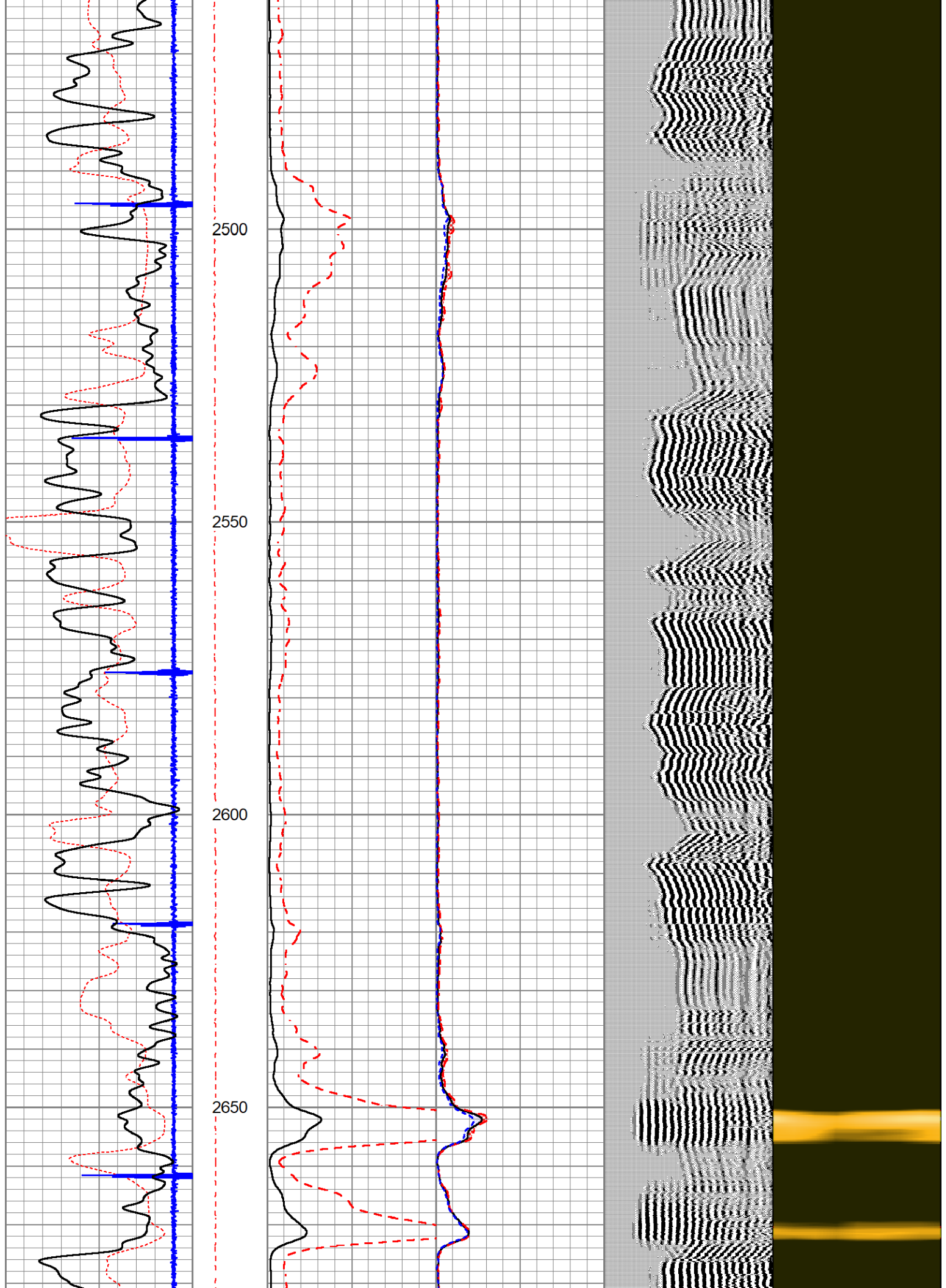
Database File castle_resources_boden #1.db
Dataset Pathname SCBL/pass1
Presentation Format PINR_S~1
Dataset Creation Fri Mar 31 08:36:09 2023
Charted by Depth in Feet scaled 1:240

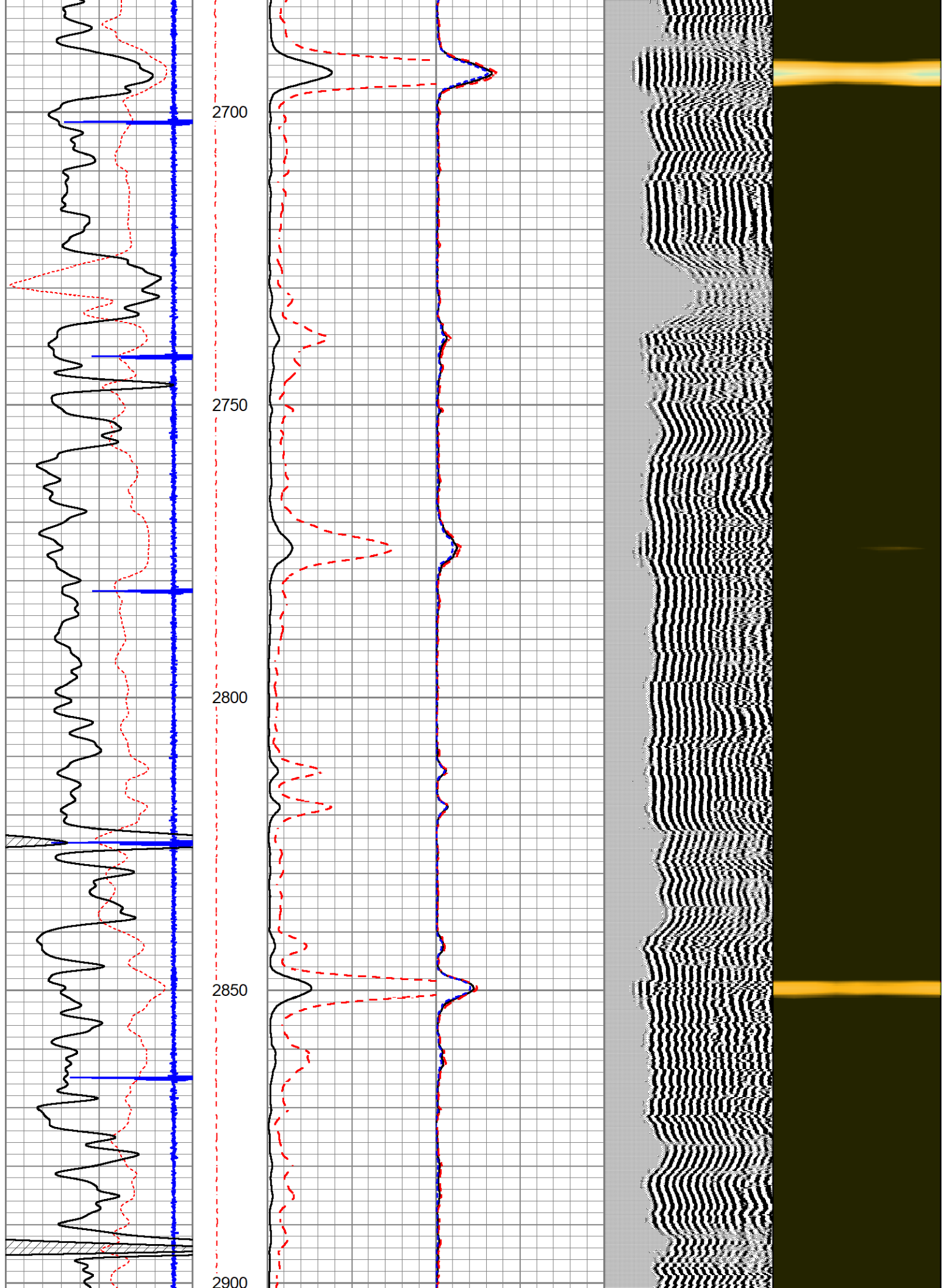
3' Travel Time	Line Tension	3' Amplitude (mV)	Sector Amplitude Average	200 VDL (usec) 1200	1	Sector Map	8
600 (usec) 200	0 (12000)	0 100	0 150				
-9 Collar Locator 1		3' Amplified Amplitude X 5					
0 Gamma Ray 150		0 (mV) 20	Sector Amplitude Maximum				
			0 150				
			Sector Amplitude Minimum				
			0 150				

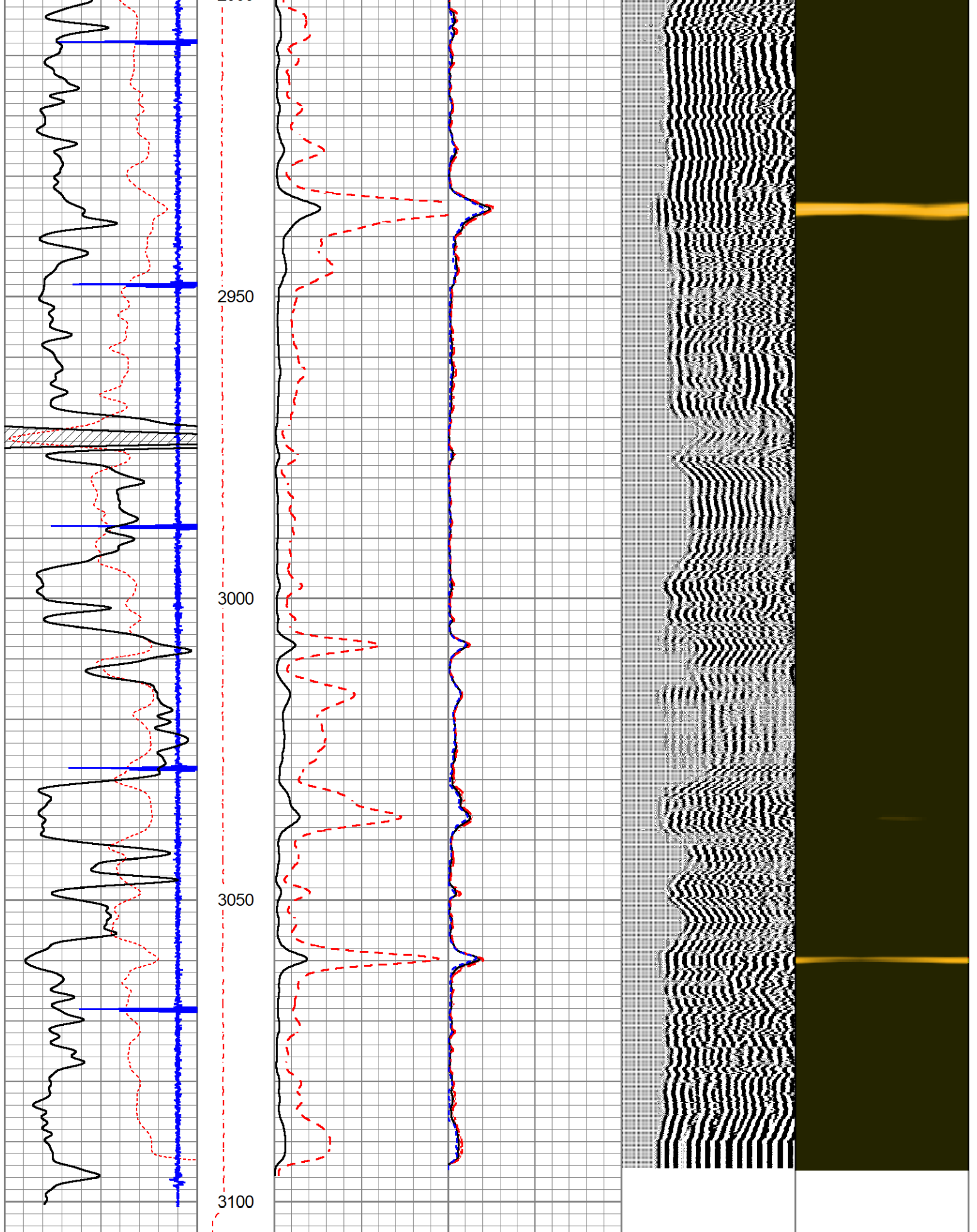












3' Travel Time	Line Tension	3' Amplitude (mV)	Sector Amplitude Average	200 VDL (usec) 1200	1	Sector Map	8
600 (usec) 200	0 (12000)	0 100	0 150				

-9	Collar Locator	1	Amplitude X 5	Sector
0	Gamma Ray	150	0 (mV) 20	Amplitude Maximum
			0 150	
				Sector
				Amplitude Minimum
			0 150	

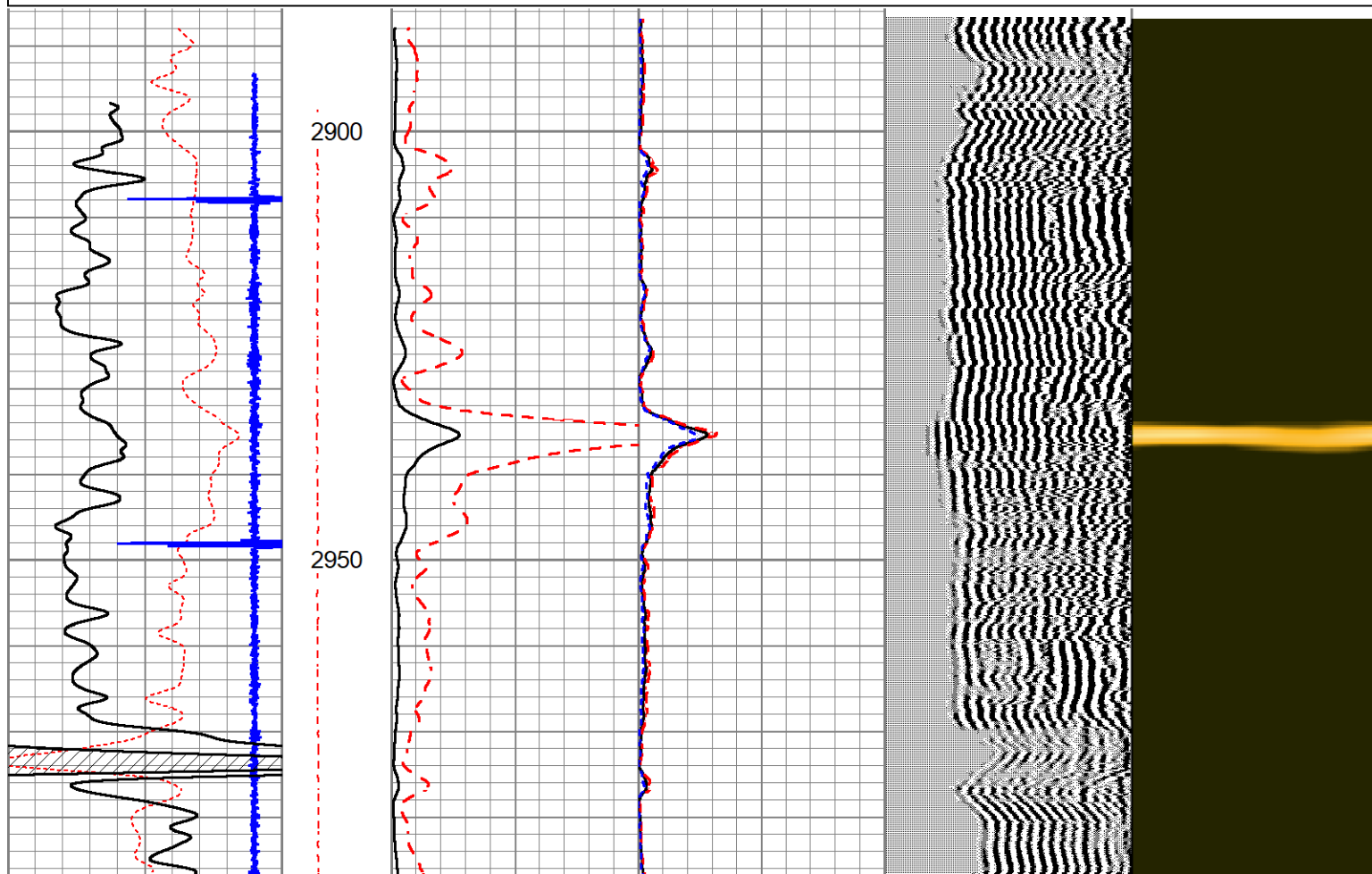


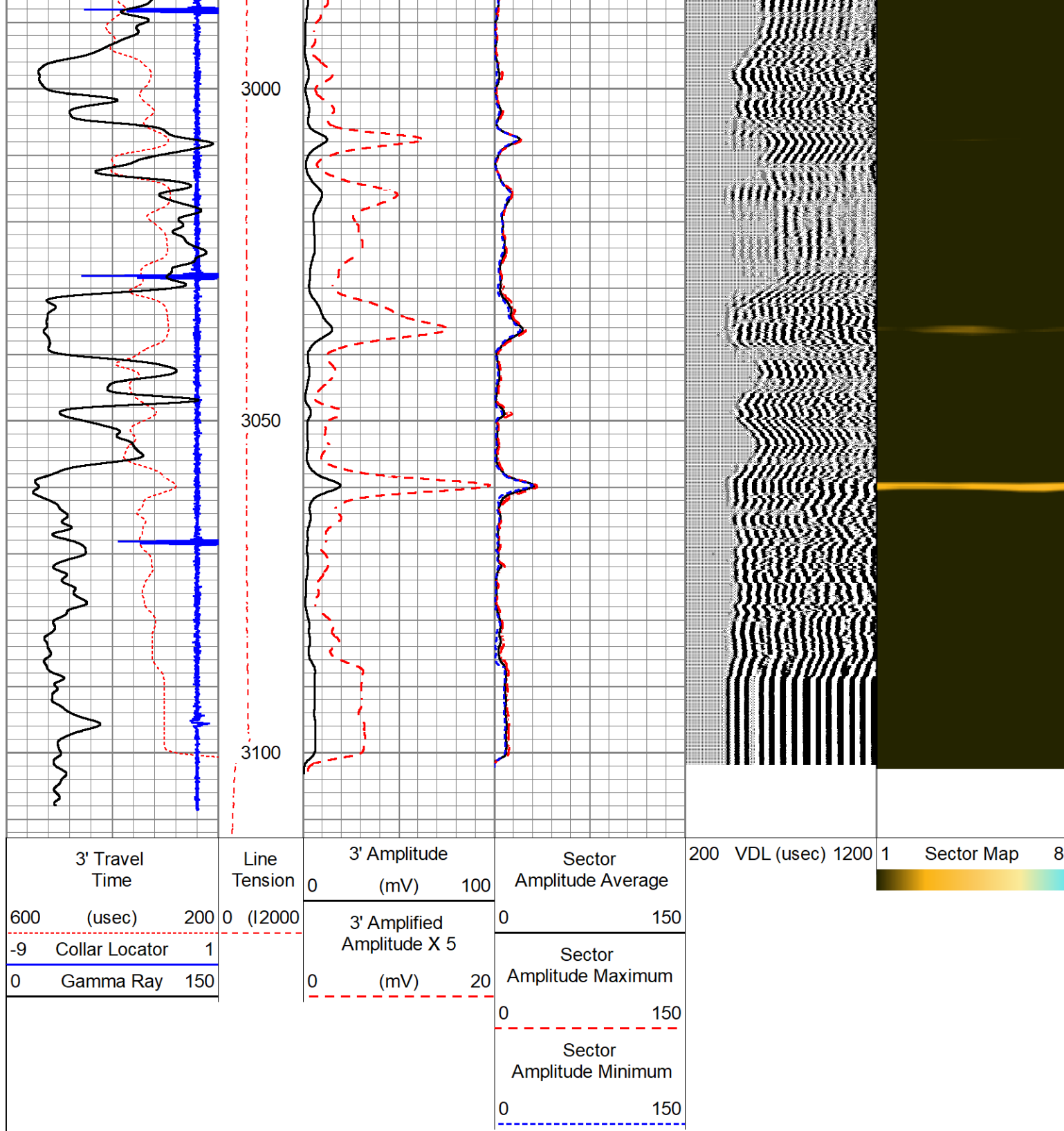
REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

Database File castle_resources_boden #1.db
Dataset Pathname SCBL/pass3
Presentation Format PINR_S~1
Dataset Creation Fri Mar 31 08:59:37 2023
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
600 (usec) 200	0 (12000)	0 100	0 150		
-9 Collar Locator 1		3' Amplified Amplitude X 5	Sector Amplitude Maximum		
0 Gamma Ray 150		0 (mV) 20	0 150		
			Sector Amplitude Minimum		
			0 150		





Calibration Report

Database File castle_resources_boden #1.db
Dataset Pathname SCBL/pass4.1
Dataset Creation Fri Mar 31 09:31:46 2023

Gamma Ray Calibration Report

Serial Number: 060802
Tool Model: 2 3/4" Probe
Performed: Thu Mar 2 09:39:30 2023

Calibrator Value: 1.0

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	PR-012	
Tool Model:	RBL-D	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	2110.201	ft

Master Calibration, performed Fri Mar 31 08:52:58 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.003	2.171	0.400	71.921	32.908	0.488
CAL	-0.005	2.425				
5'	-0.003	1.662	0.400	71.921	42.959	0.514
SUM						
S1	0.000	2.258	0.000	100.000	44.296	-0.003
S2	0.001	2.095	0.000	100.000	47.758	-0.065
S3	0.001	2.080	0.000	100.000	48.093	-0.050
S4	0.000	2.025	0.000	100.000	49.398	-0.013
S5	-0.000	2.159	0.000	100.000	46.308	0.015
S6	-0.001	2.045	0.000	100.000	48.892	0.033
S7	-0.001	2.124	0.000	100.000	47.065	0.055
S8	-0.002	2.280	0.000	100.000	43.819	0.082

Air Zero Calibration, performed Thu Mar 2 09:31:27 2023:

	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	Castle Resources, INC
Well	Boden #1
Field	Single West
County	Osborne
State	Kansas