



# CEMENT BOND LOG WITH GAMMA RAY

MIDWEST WIRELINE

Comp. Mike Kelso Oil, Inc.  
Well Thomas Farms C-4  
Field Chase-Silica  
Co. Barton  
State KANSAS

Company Mike Kelso Oil, Inc.  
Well Thomas Farms C-4  
Field Chase-Silica  
County Barton State KANSAS

Location: API # : 15-009-26835-00-00 Other Services  
886 FSL & 2017 FEL  
SEC TWP 19S RGE 11W  
Permanent Datum Ground Level Elevation 1771  
Log Measured From KB 8' Above Perm. Datum  
Drilling Measured From KB Elevation  
K.B. 1779  
D.F.  
G.L. 1771

Date of Service	3/27/23			
Run Number	IONE			
Depth Driller or PBTD	3416			
Depth Logger	3362			
Bottom Log Interval	3360			
Top Log Interval	2070			
Open Hole Size	7.875			
Type Fluid	water			
Fluid Level	0			
Fluid Density	8.4			
Max. Recorded Temperature	110			
Max. Wellhead Pressure	0			
Wellhead Connection	collar			
Estimated Cement Top	2158			
Unit Number	106			
Wireline Size	.288			
Location	Hays			
Recorded By	JTrout			
Witnessed By	Mike Kelso			
Tubing Record	Size	WFt	Top	Bottom
Surface Casing	8.625		0	250
Production Casing	5.5		0	TD
Liner Record				

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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.

Ellinwood, Ks  
1 1/2 E, N into

THANK YOU FOR USING MIDWEST WIRELINE LLC!

Your Midwest Wireline Crew	Tool Data - Services	Serial Number
Engineer: JTrout Operator: Operator: Operator:		

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	
			PROBE-RBT-DIGITAL-RBL-D (PR-012) Probe 2 3/4" Radii Bond-Digital	8.75	2.75	100.00	
WVFS8	11.94						
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 (060802)	4.54	2.75	50.00	
			Bullnose-PROBE Probe Go Pin Pressure Cap	0.33	1.38	1.00	

Dataset: mike\_kelso\_oil\_thomas\_farms\_c-4.db: field/well/SCBL/pass3  
 Total length: 20.41 ft  
 Total weight: 183.00 lb  
 O.D.: 2.75 in

# Log Variables

DatabaseC:\ProgramData\Warrion\Data\mike\_kelso\_oil\_thomas\_farms\_c-4.db  
 Dataset field/well/SCBL/pass3/\_vars\_

## Top - Bottom

BOREID in 7.875	BOTTEMP degF 110	CASEOD in 5.5	CASETHCK in 0.275	CASEWGHT lb/ft 15.5	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.08
PERFS 0	PPT usec 0	SRFTEMP degF 0	TDEPTH ft 3362				

## 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

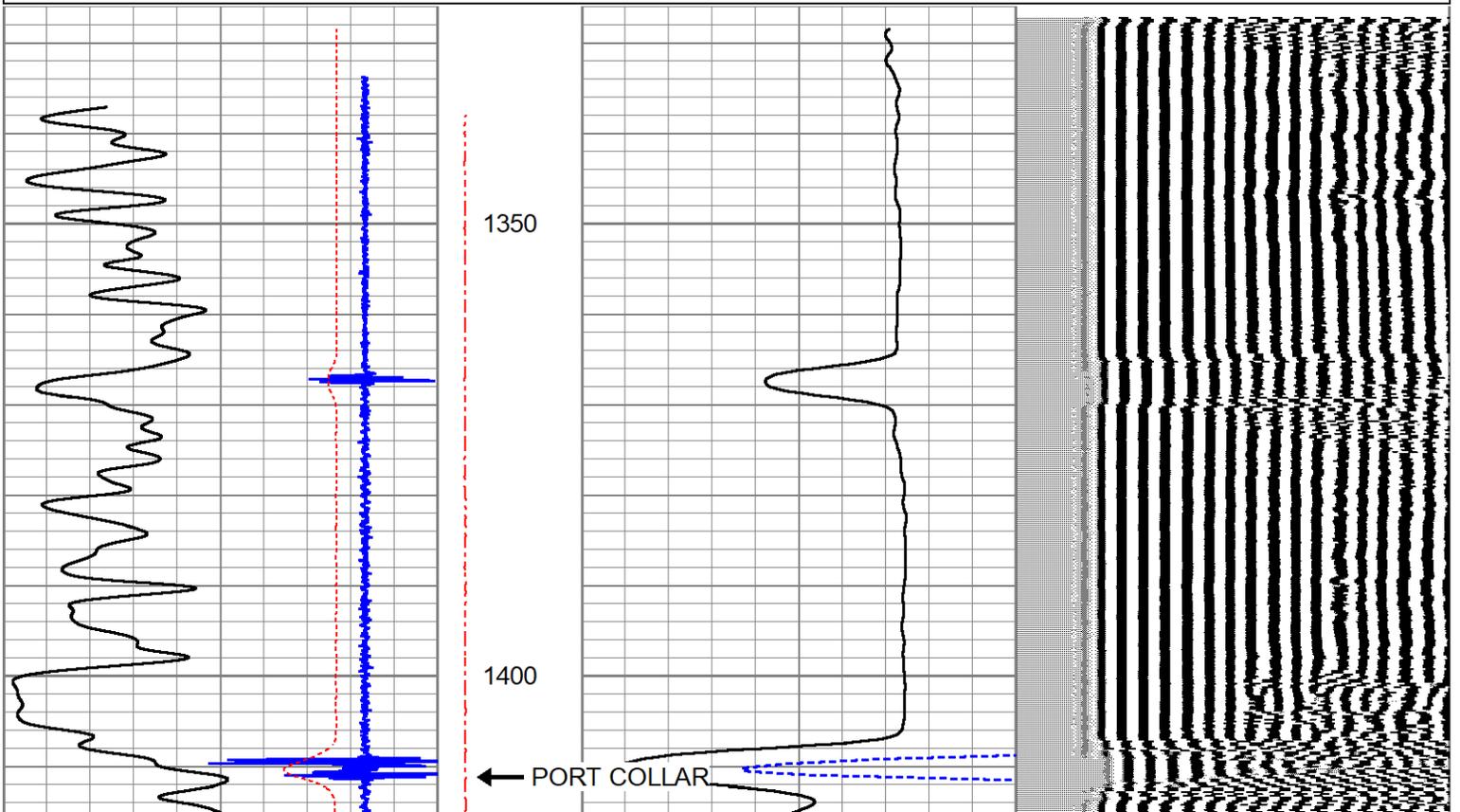


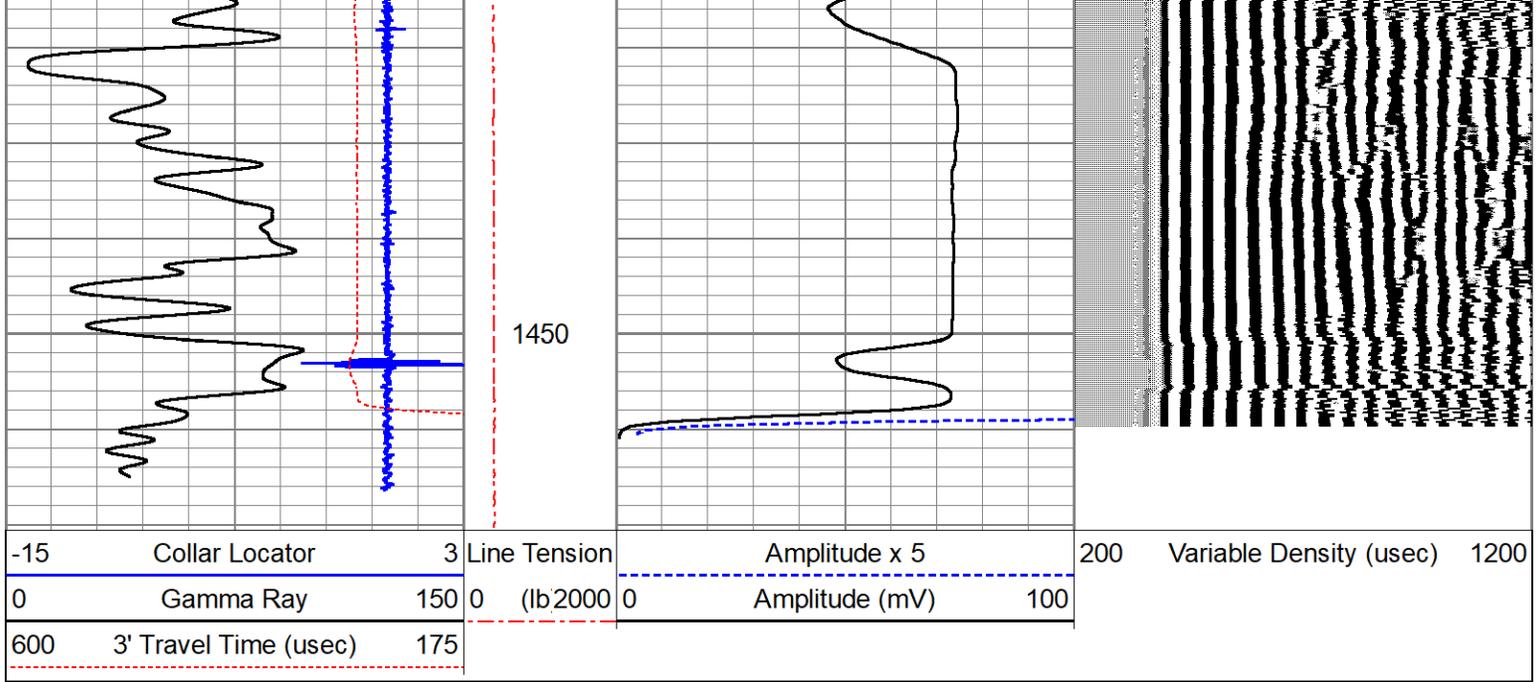
MIDWEST WIRELINE

## PORT COLLAR SECTION

Database File      mike\_kelso\_oil\_thomas\_farms\_c-4.db  
 Dataset Pathname    SCBL/pass4  
 Presentation Format   pinr\_cbl  
 Dataset Creation    Mon Mar 27 12:09:31 2023  
 Charted by          Depth in Feet scaled 1:240

-15	Collar Locator	3	Line Tension	Amplitude x 5	200	Variable Density (usec)	1200
0	Gamma Ray	150	0 (lb/2000)	Amplitude (mV)	100		
600	3' Travel Time (usec)	175					



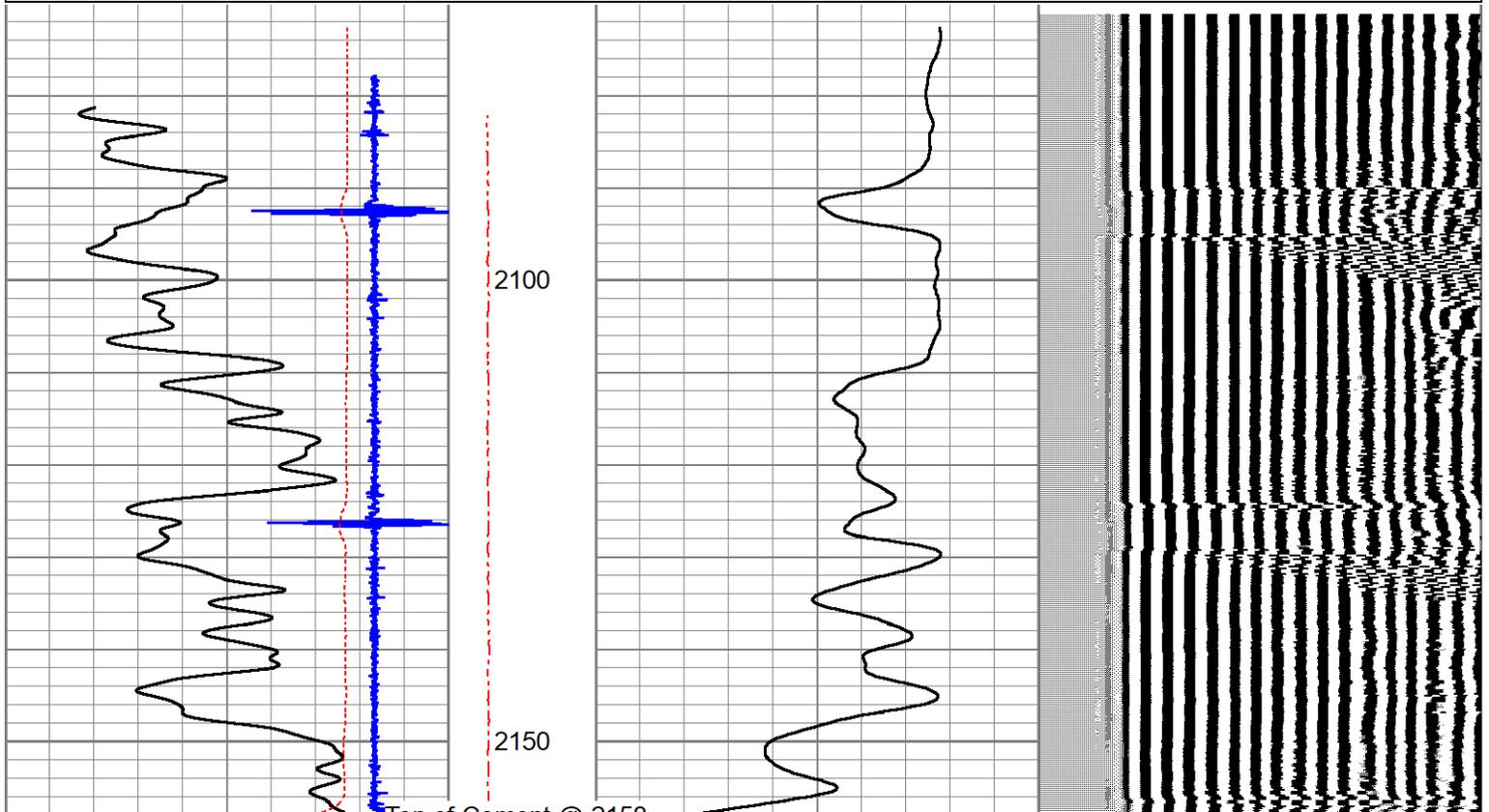
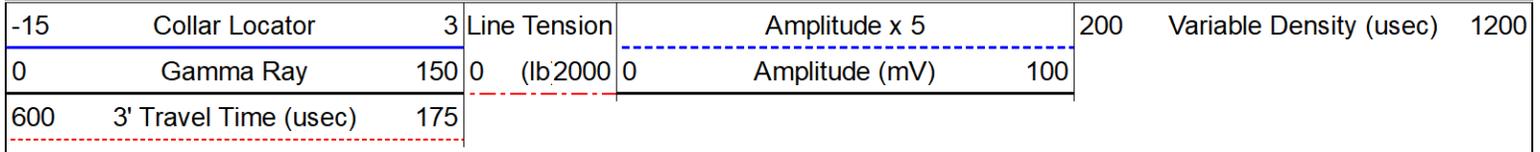


MIDWEST WIRELINE

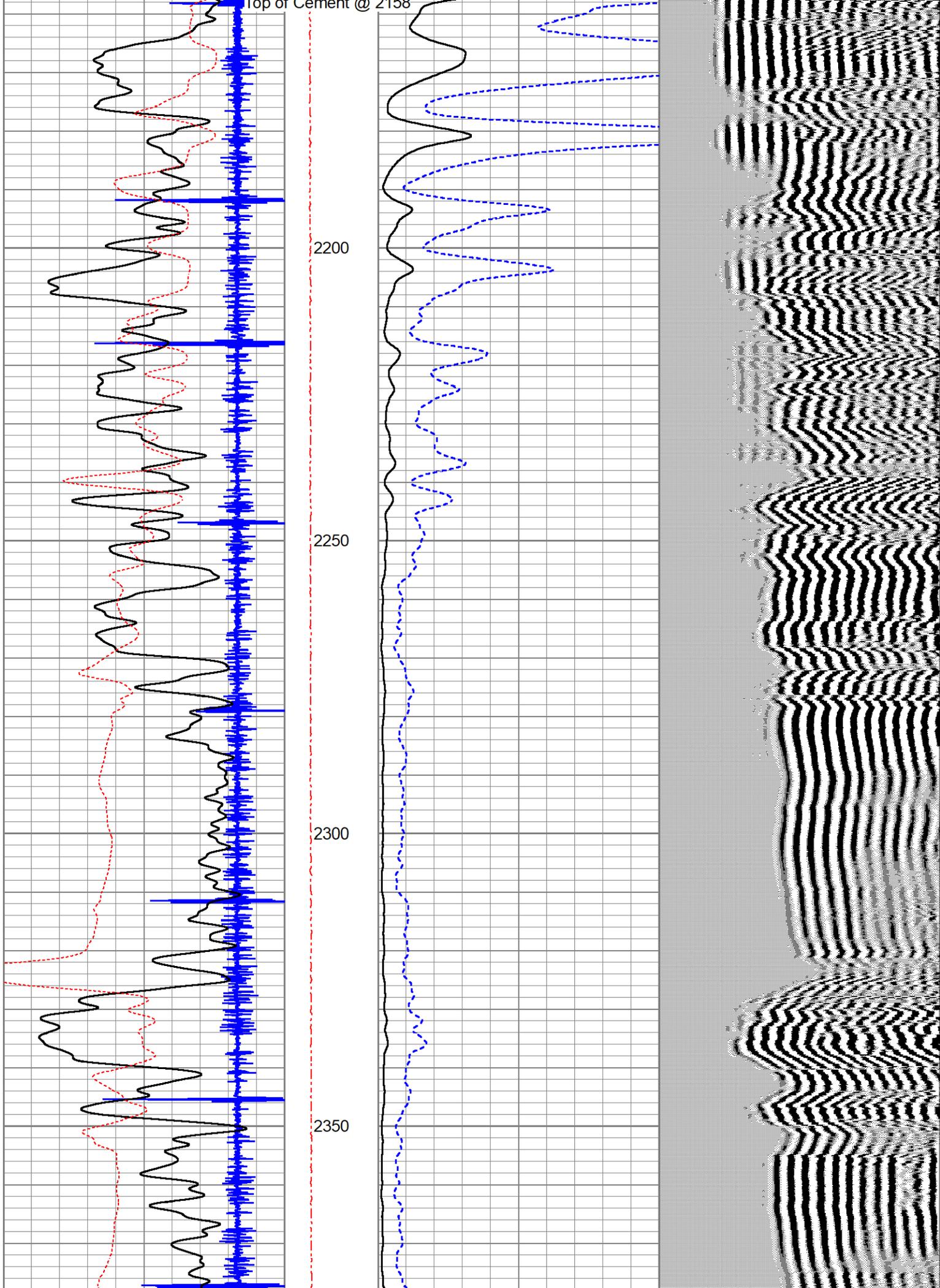
# MAIN LOG

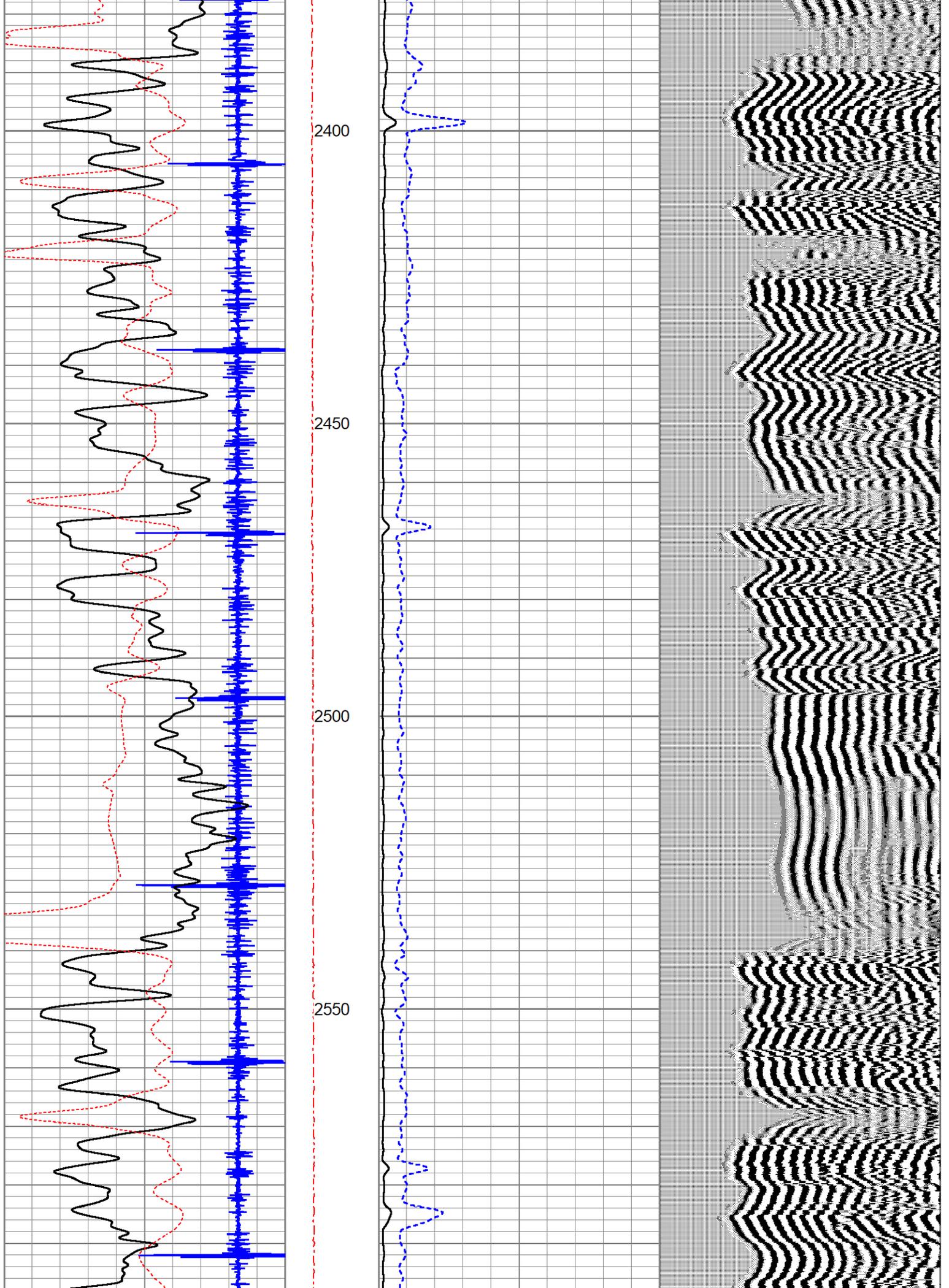
ZERO PSI APPLIED AT SURFACE

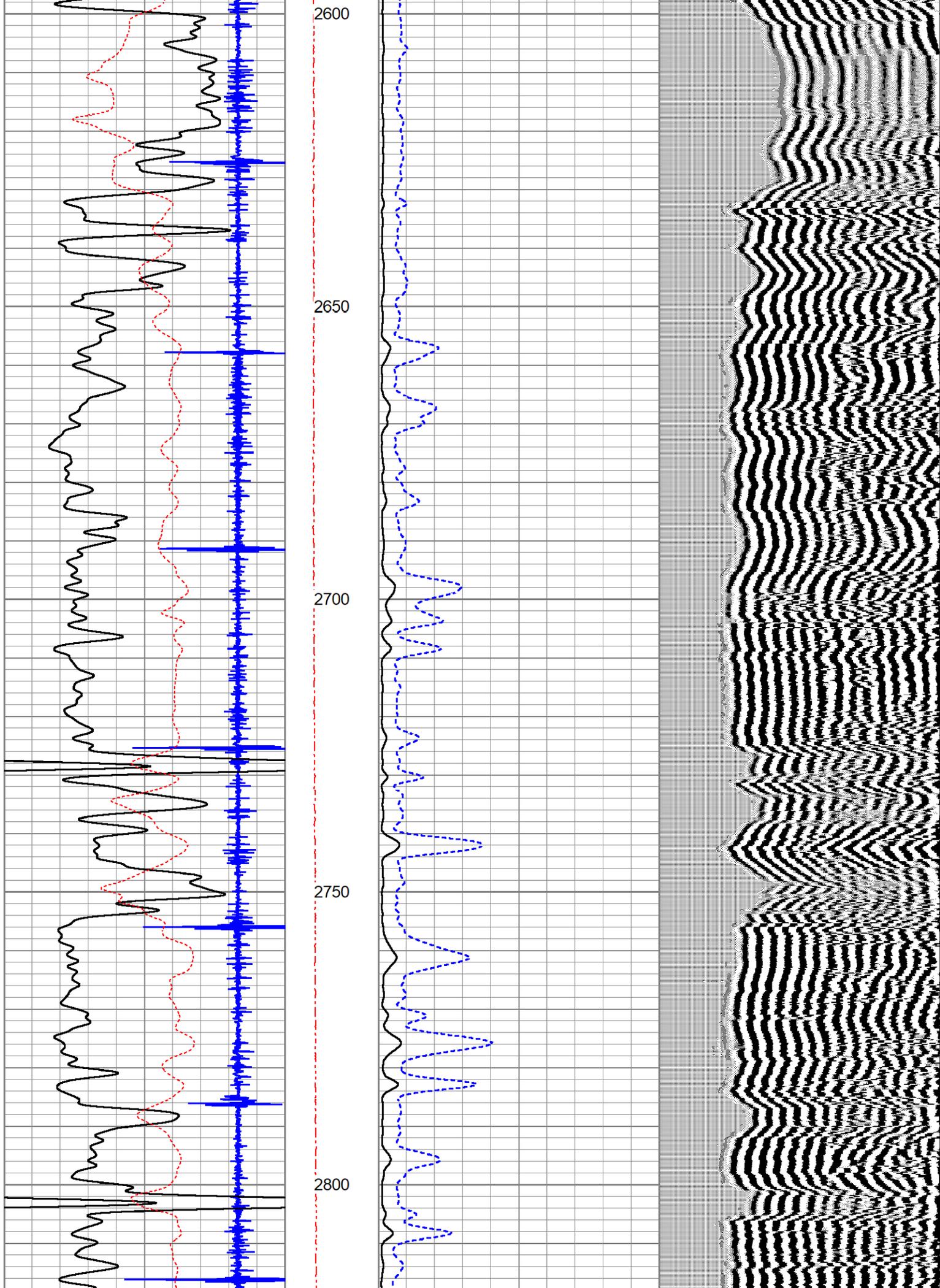
Database File      mike\_kelso\_oil\_thomas\_farms\_c-4.db  
 Dataset Pathname    SCBL/pass3  
 Presentation Format    pinr\_cbl  
 Dataset Creation      Mon Mar 27 11:40:14 2023  
 Charted by            Depth in Feet scaled 1:240

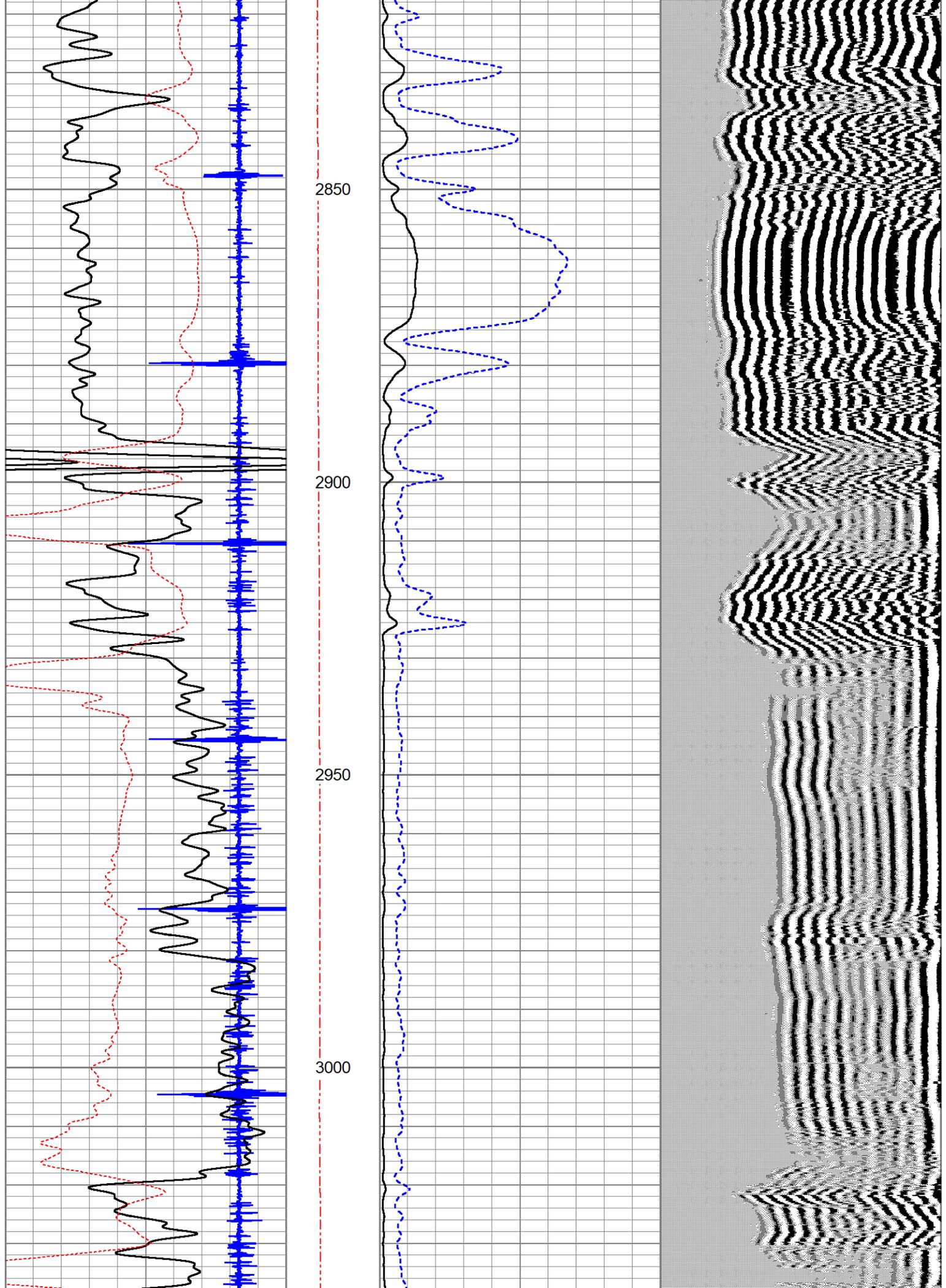


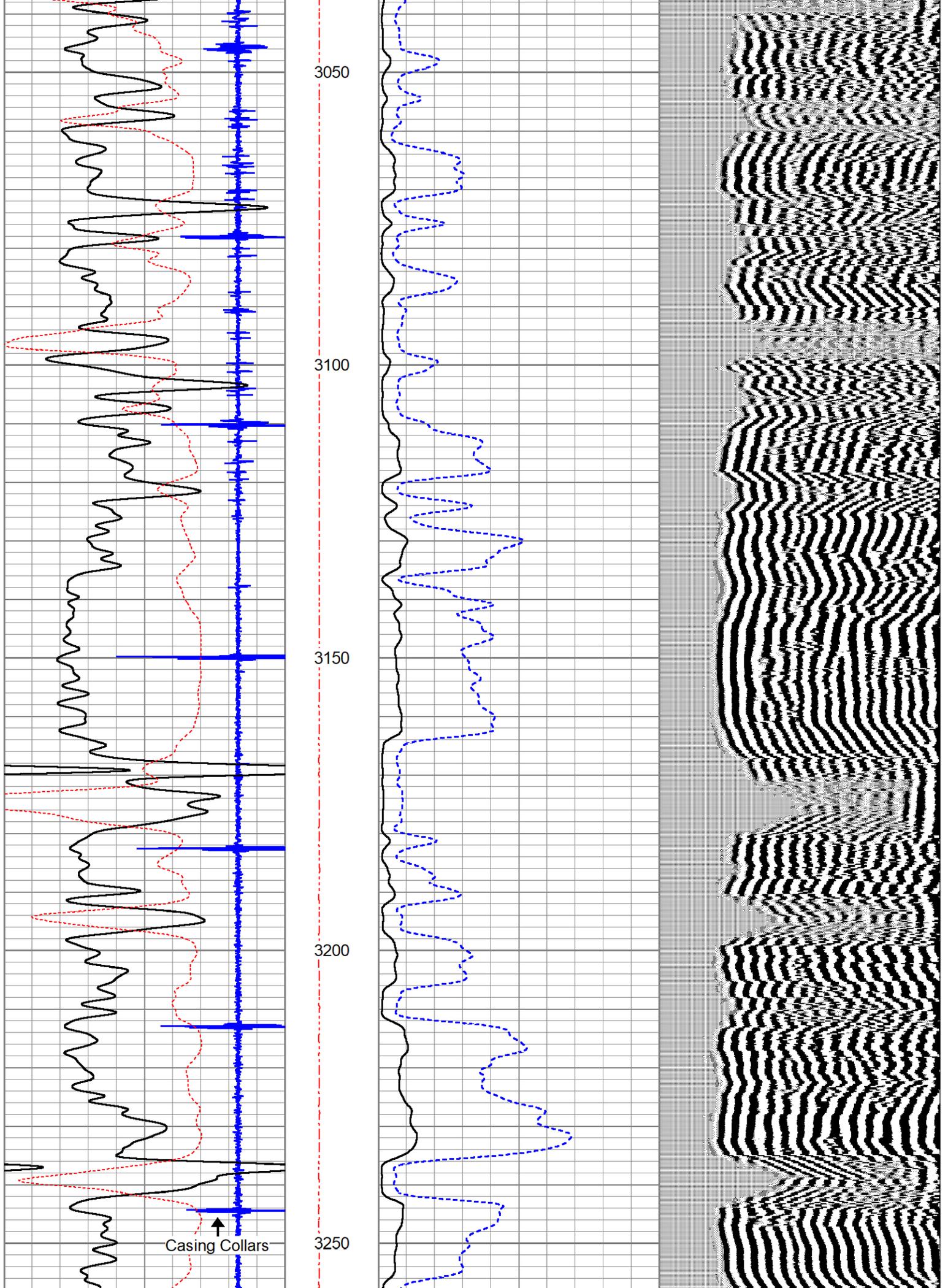
Top of Cement @ 2158

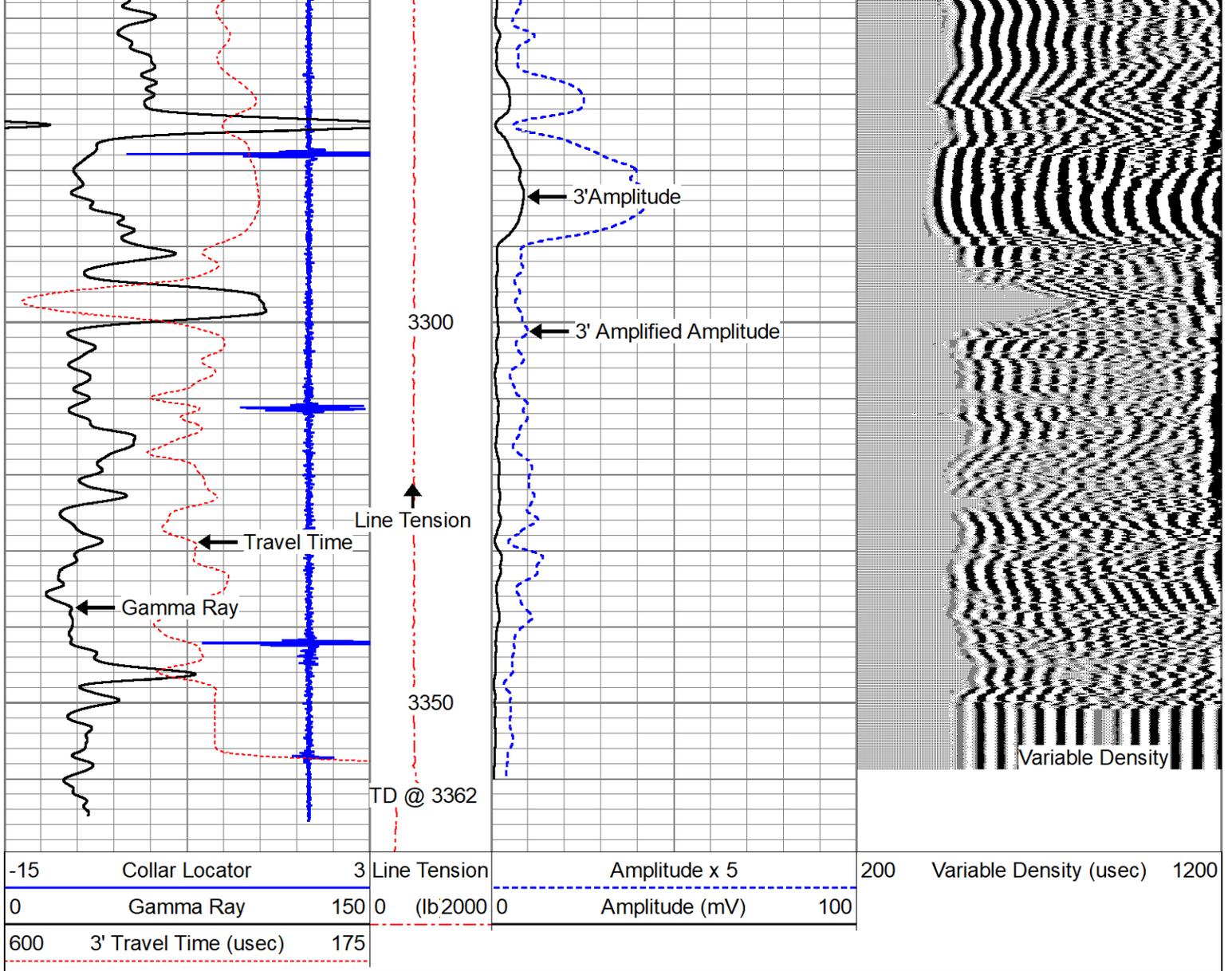








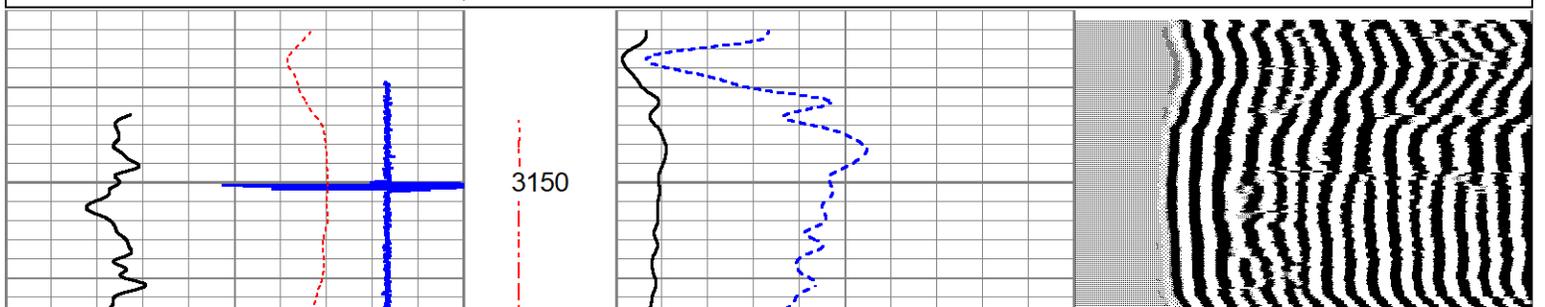
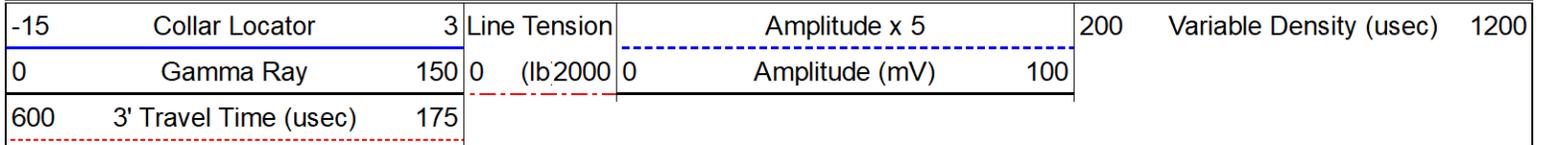


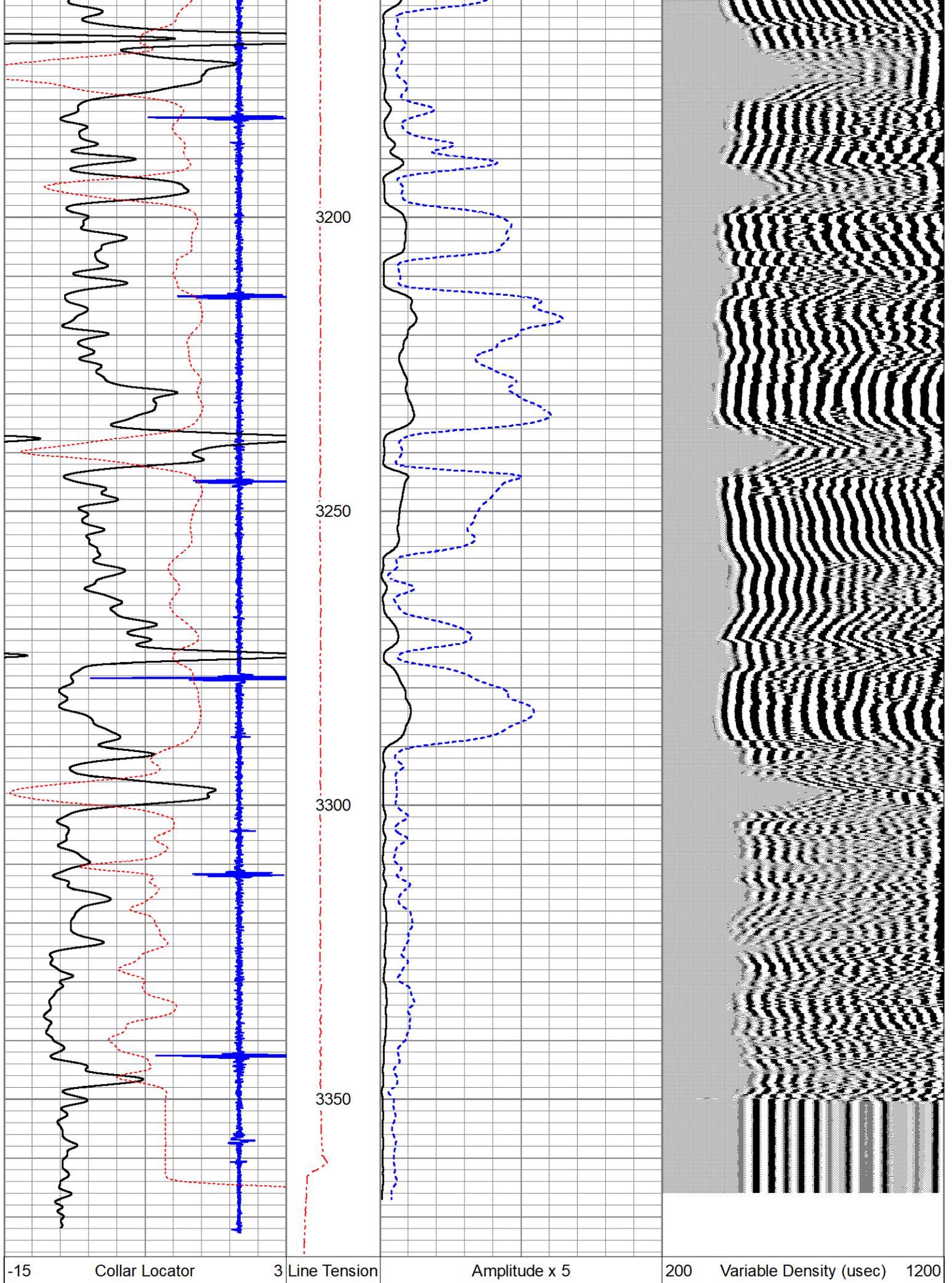


## REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

Database File      mike\_kelso\_oil\_thomas\_farms\_c-4.db  
 Dataset Pathname    SCBL/pass2  
 Presentation Format   pinr\_cbl  
 Dataset Creation    Mon Mar 27 11:33:08 2023  
 Charted by          Depth in Feet scaled 1:240





Gamma Ray	150	0	(lb/2000)	0	100
600	3' Travel Time (usec)	175			

Calibration Report

Database File     mike\_kelso\_oil\_thomas\_farms\_c-4.db  
Dataset Pathname   SCBL/pass3  
Dataset Creation    Mon Mar 27 11:40:14 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:                807.963             ft

Master Calibration, performed Thu Mar 16 12:38:15 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.003	2.156	0.700	71.921	32.985	0.795
CAL	-0.006	2.208				
5'	-0.004	2.268	0.700	71.921	31.348	0.812
SUM						
S1	-0.003	2.307	0.000	100.000	43.292	0.141
S2	0.002	2.205	0.000	100.000	45.395	-0.090
S3	0.001	2.148	0.000	100.000	46.592	-0.067
S4	0.000	2.124	0.000	100.000	47.090	-0.017
S5	-0.001	2.020	0.000	100.000	49.492	0.028
S6	-0.001	1.896	0.000	100.000	52.713	0.068
S7	-0.001	2.038	0.000	100.000	49.047	0.068
S8	-0.002	2.264	0.000	100.000	44.134	0.090

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



MIDWEST WIRELINE

Company	Mike Kelso Oil, Inc.
Well	Thomas Farms C-4
Field	Chase-Silica
County	Barton
State	KANSAS