



PIONEER
Pioneer Energy Services

**DUAL INDUCTION
LOG**

Company **BRITO OIL COMPANY, INC.**

Well **WYLIE NO. 1-31**

Field **EAGLE RIDGE**

County **GOVE** State **KANSAS**

Location: API #: 15-063-22353-00-00

2310' FSL & 2220' FEL

SEC 31 TWP 12S RGE 26W

Permanent Datum **GROUND LEVEL** Elevation **2630'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. **2640'**
D.F. **N/A**
G.L. **2630'**

Company **BRITO OIL COMPANY, INC.**
Well **WYLIE NO. 1-31**
Field **EAGLE RIDGE**
County **GOVE**
State **KANSAS**

Date **4/15/2019**

Run Number **ONE**

Depth Driller **4550'**

Depth Logger **4547'**

Bottom Logged Interval **4546'**

Top Log Interval **200'**

Casing Driller **8.625" @ 213'**

Casing Logger **212'**

Bit Size **7.875"**

Type Fluid in Hole **CHEMICAL**

Salinity, ppm CL **2700**

Density / Viscosity **9.2 65**

pH / Fluid Loss **10.5 6.4**

Source of Sample **FLOWLINE**

Rm @ Meas. Temp **.85 @ 76**

Rmt @ Meas. Temp **.64 @ 76**

Rmc @ Meas. Temp **1.15 @ 76**

Source of Rmt / Rmc **CHARTS**

Rm @ BHT **.53 @ 122**

Operating Rig Time **2 HOURS**

Max Rec. Temp. F **122 DEGF**

Equipment Number **P-108**

Location **HAYS**

Recorded By **J. HENRICKSON**

Witnessed By **ROBERT HENDRIX**

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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.

QUINTER KANSAS

6 SOUTH TO T ROAD, 1/2 WEST, SOUTH INTO

Log Measured From: KELLY BUSHING 10 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

www.pioneerenergy.com

785-625-3858

Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON

Operator:

Operator:

Operator:

This Log Record Was Witnessed By

Primary Witness: ROBERT HENDRIX

Secondary Witness:

Secondary Witness:

Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 122	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 85	degF 52	Off	ft 4547

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	37.48			CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	36.73						
LSD DCAL SSD	28.43 28.42 27.93			CDL-M&W (144-84)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83			ML-PSI STKBL ML (PSI-01) Stackable Microlog Tools	7.58	4.00	65.00
RLL3 RLL3F	15.80 15.79						
CILD	8.00			DIL-M&W (PSI 988)	18.50	3.50	220.00

CILM

4.70

SP

0.20

Dataset: brito_wylie_1_31.db: field/well/stackml/pass5.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in



PIONEER
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MAIN PASS

Database File brito_wylie_1_31.db
Dataset Pathname stackml/pass5.1
Presentation Format dil2in
Dataset Creation Mon Apr 15 14:25:29 2019
Charted by Depth in Feet scaled 1:600

0 GAMMA RAY (GAPI) 150

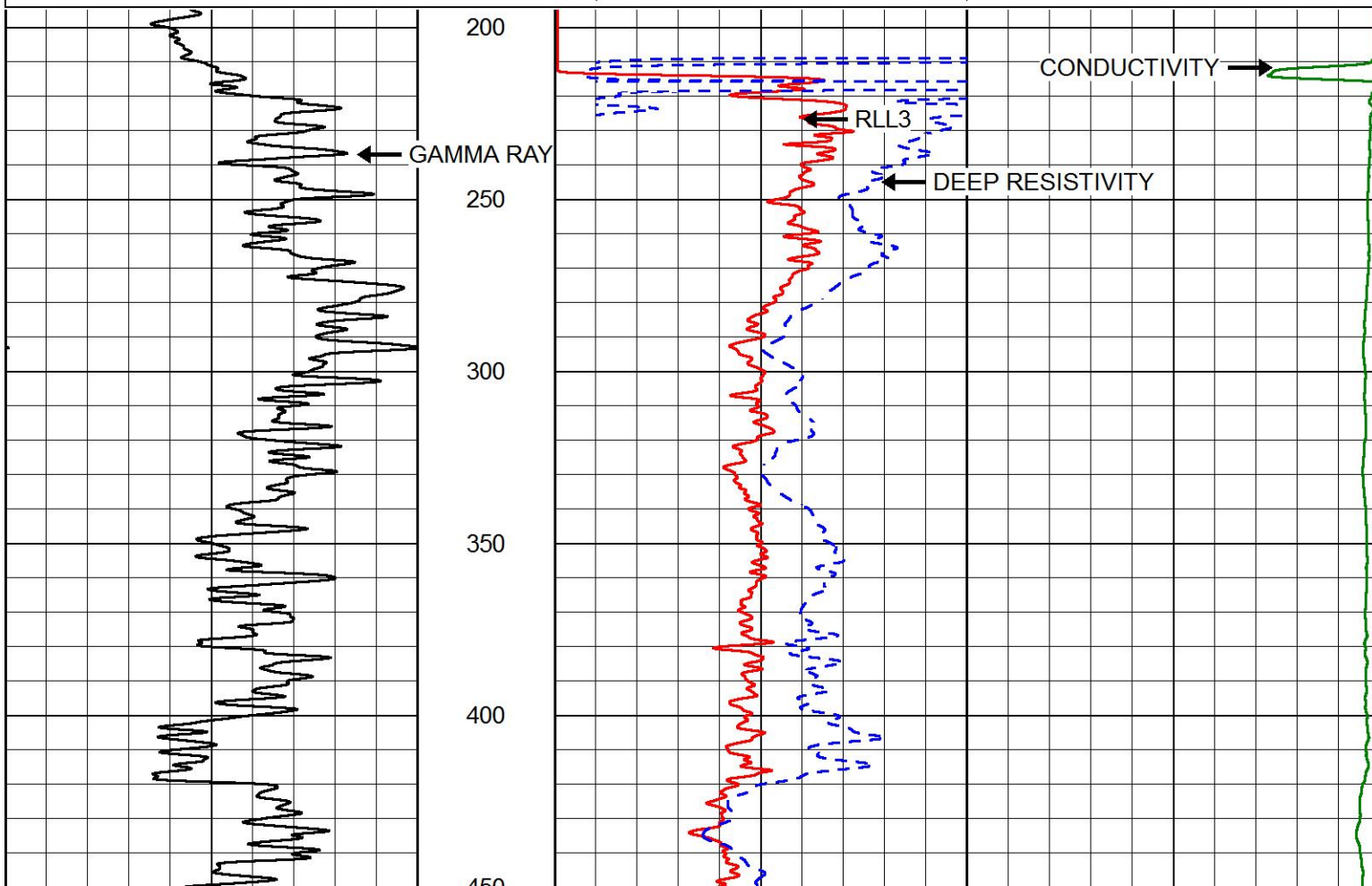
2000 CILD (mmho/m) 0

0 RLL3 (Ohm-m) 50

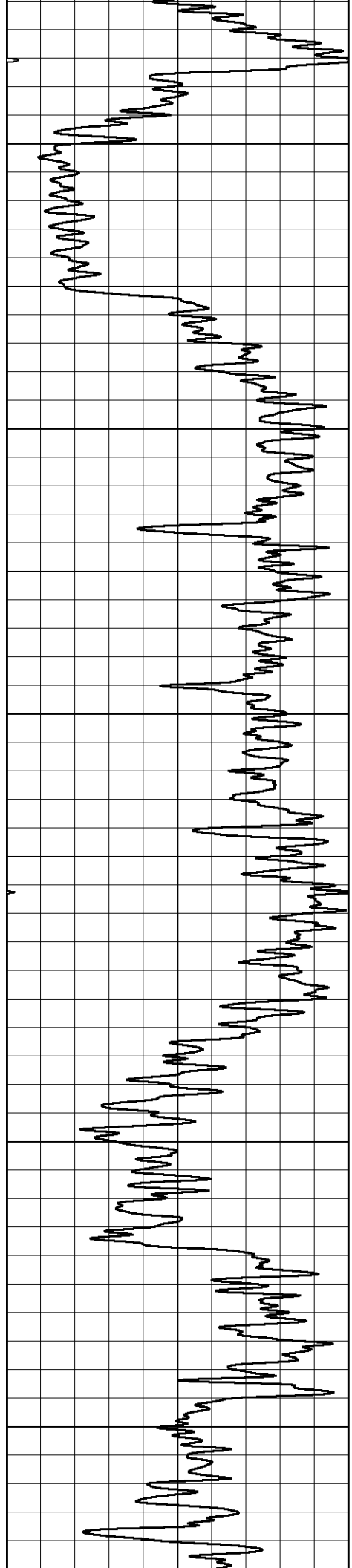
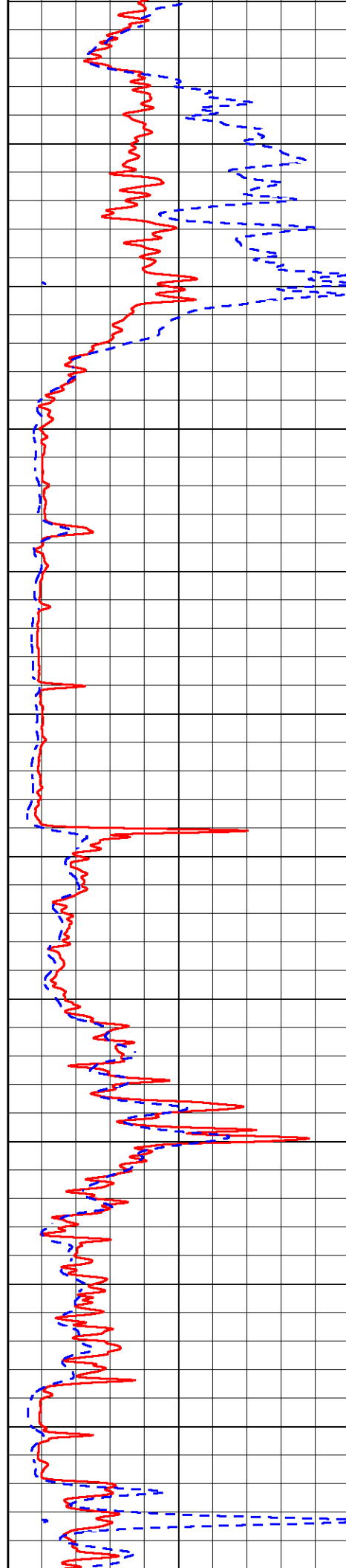
0 DEEP RESISTIVITY (Ohm-m) 50

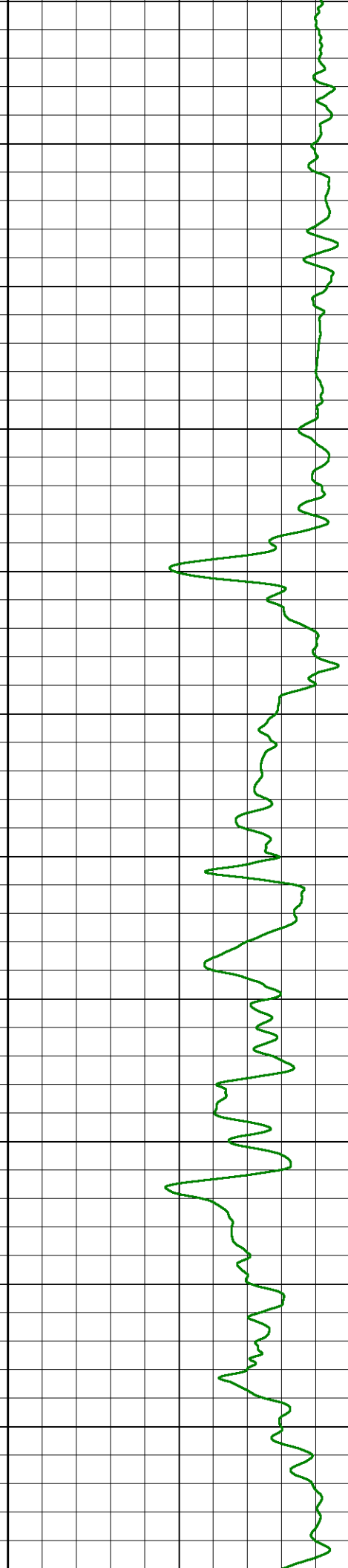
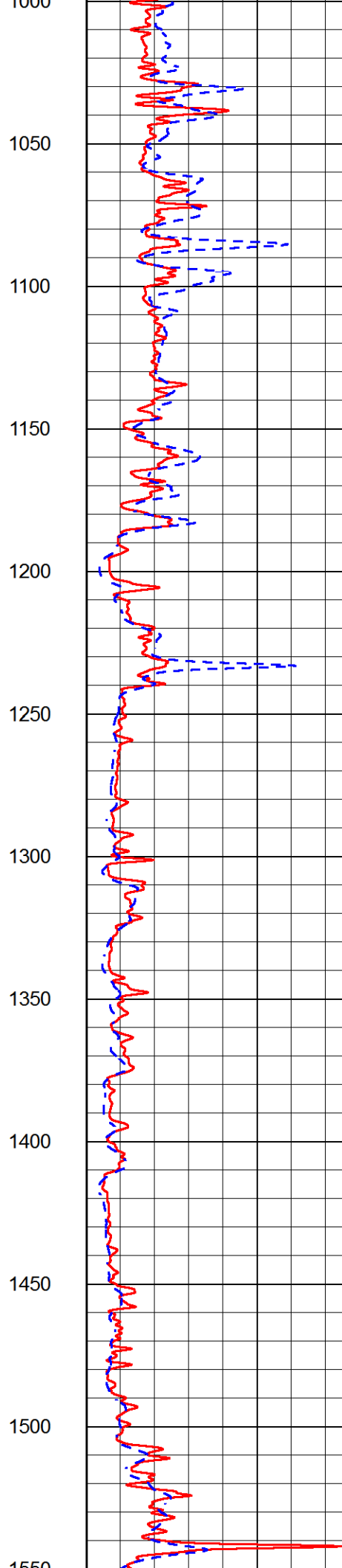
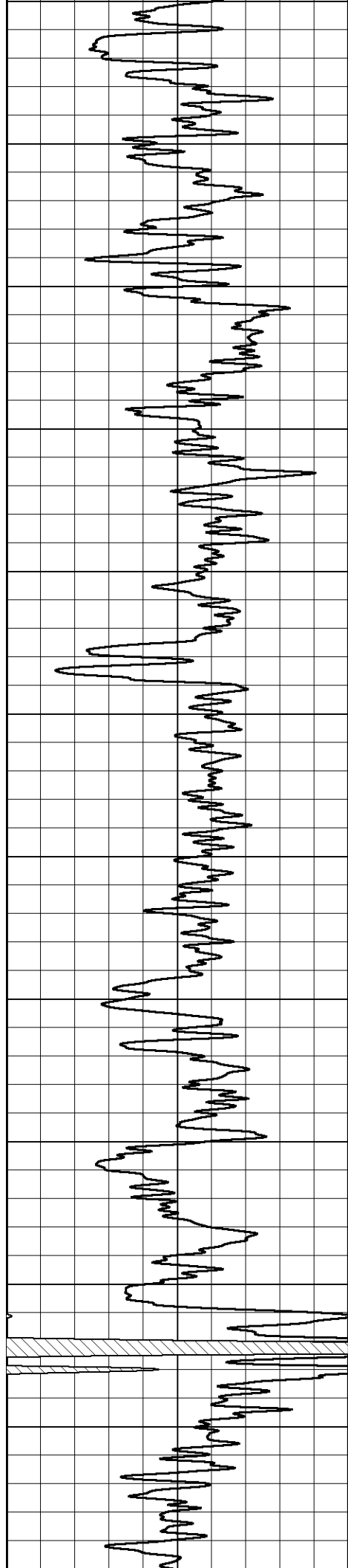
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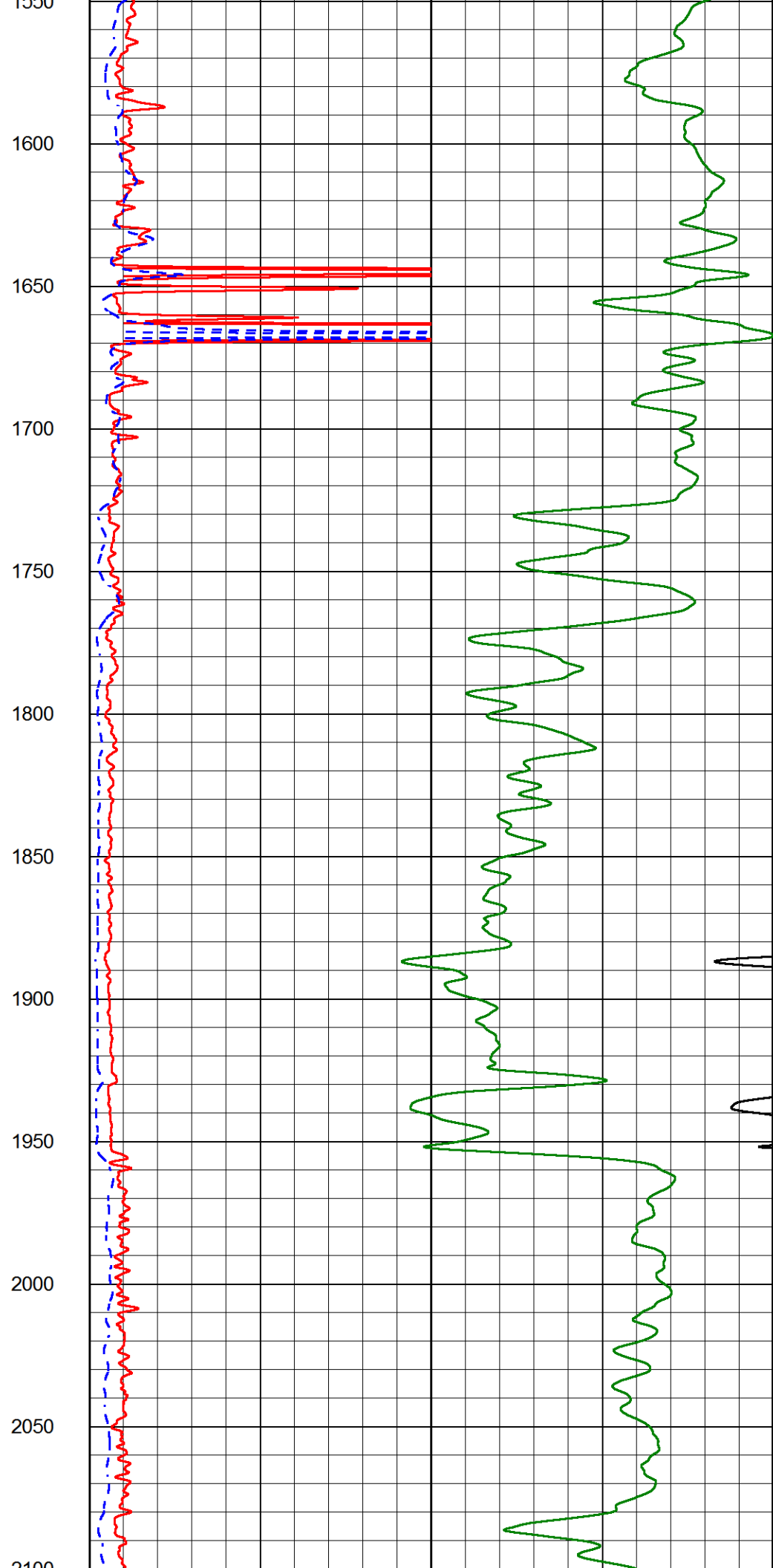
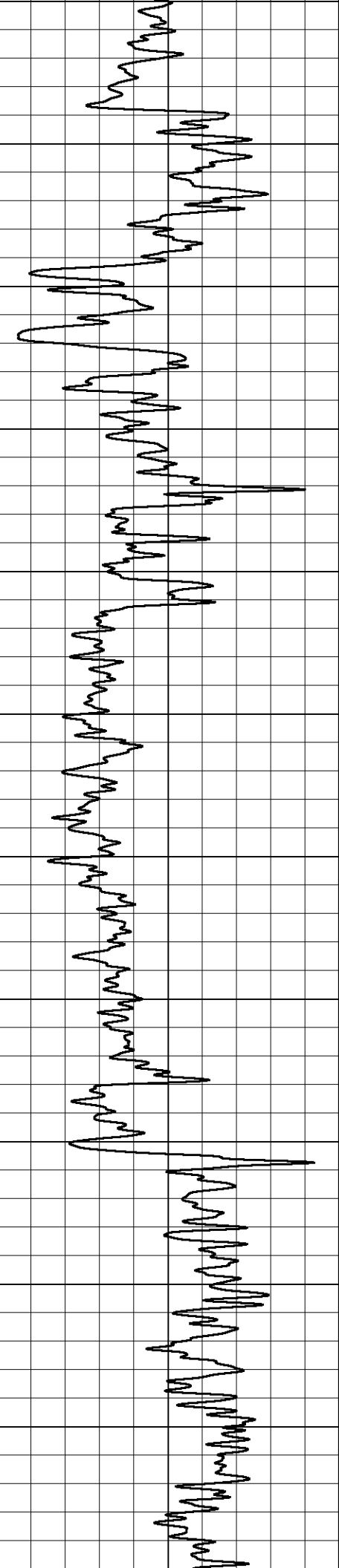
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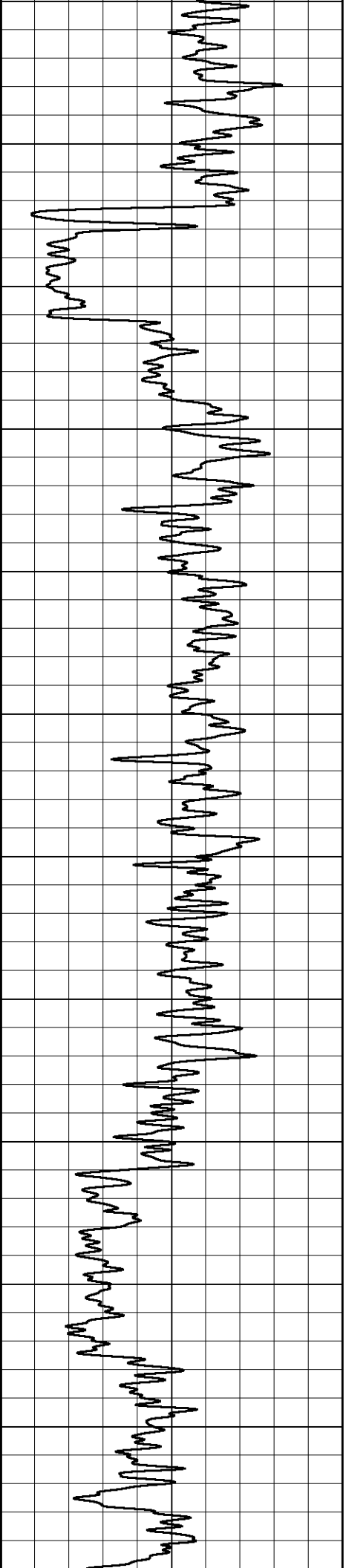
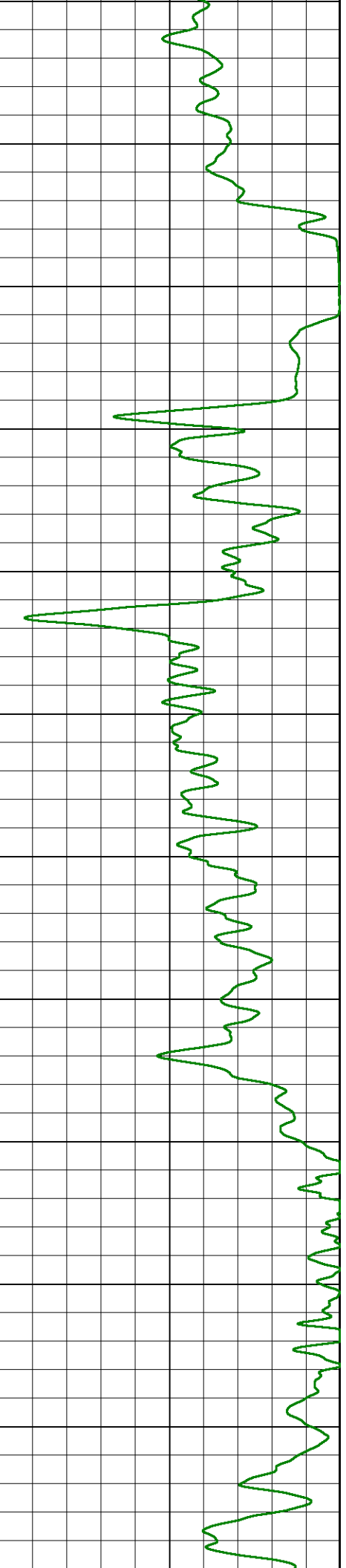
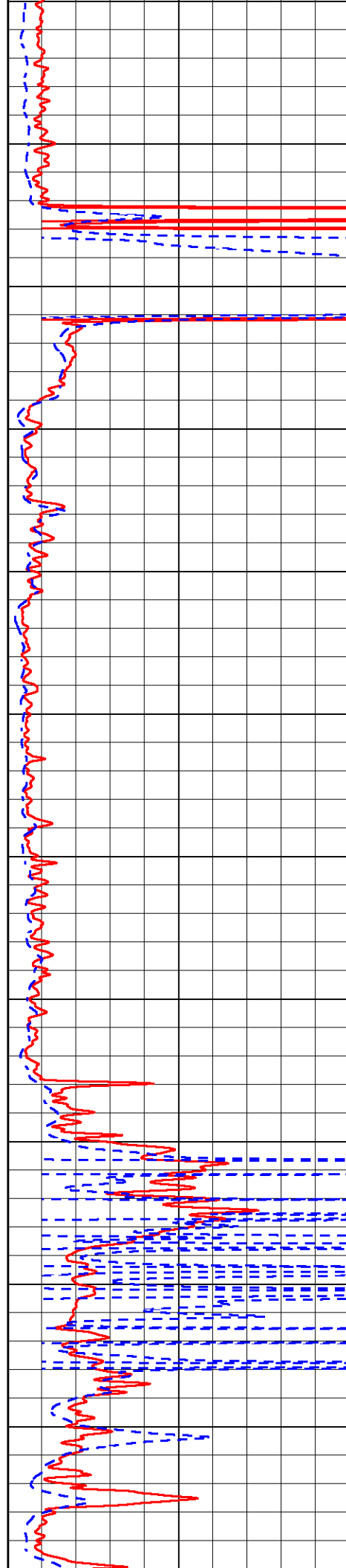
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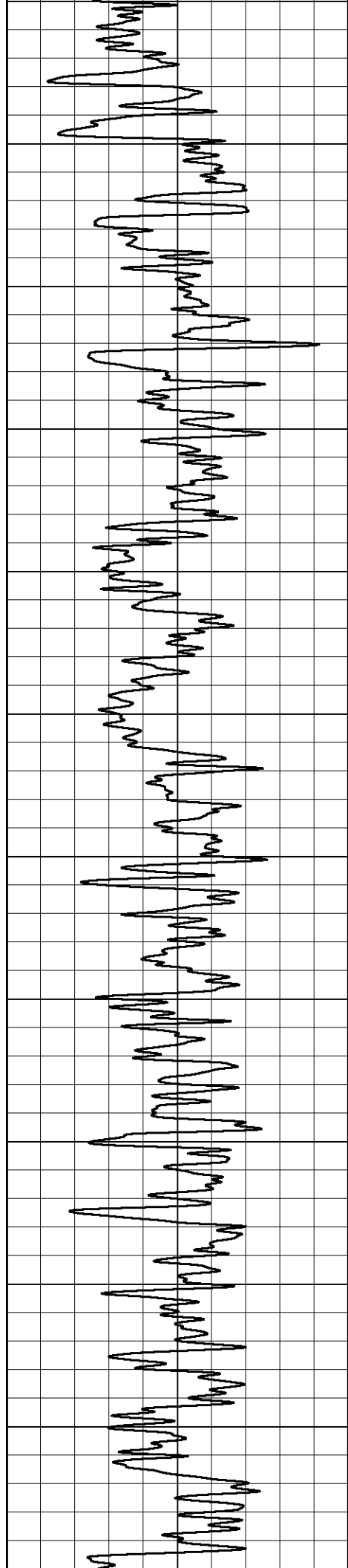




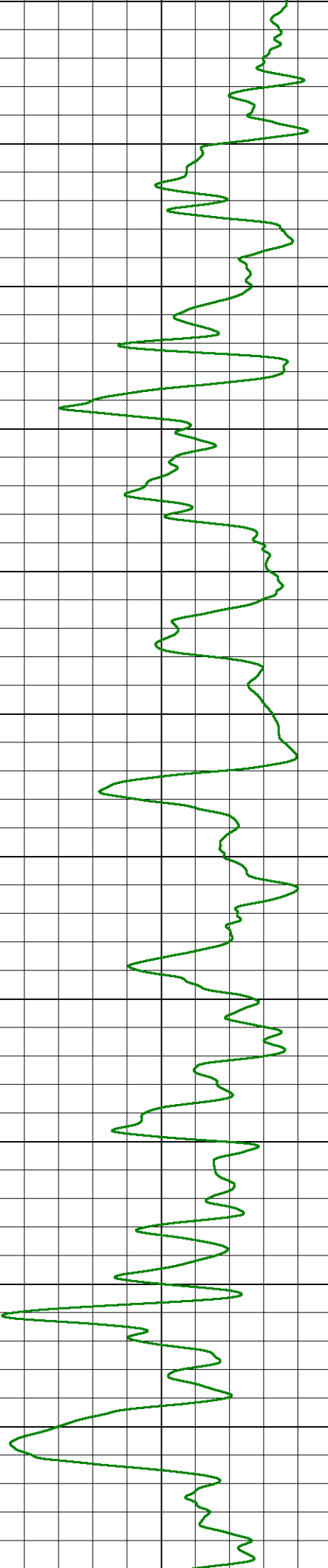
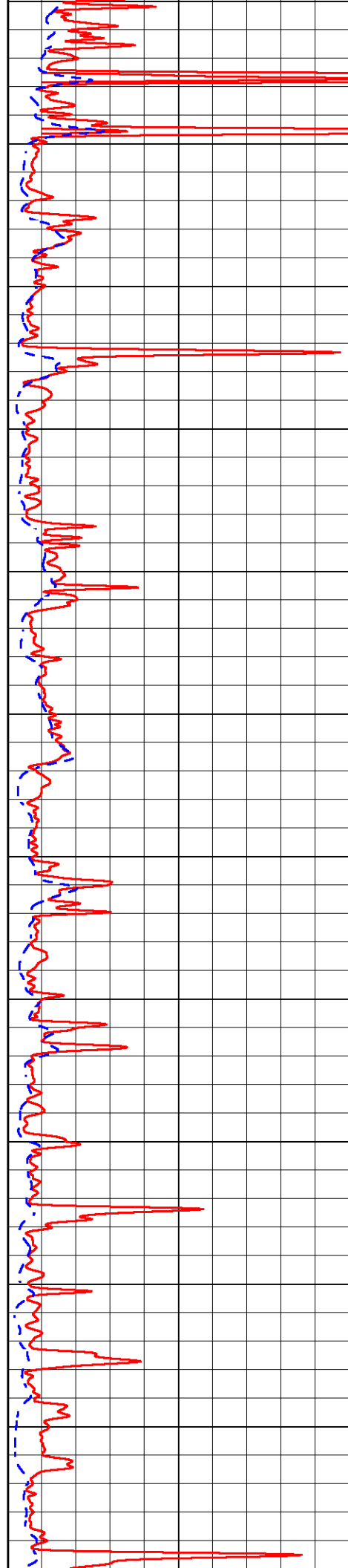


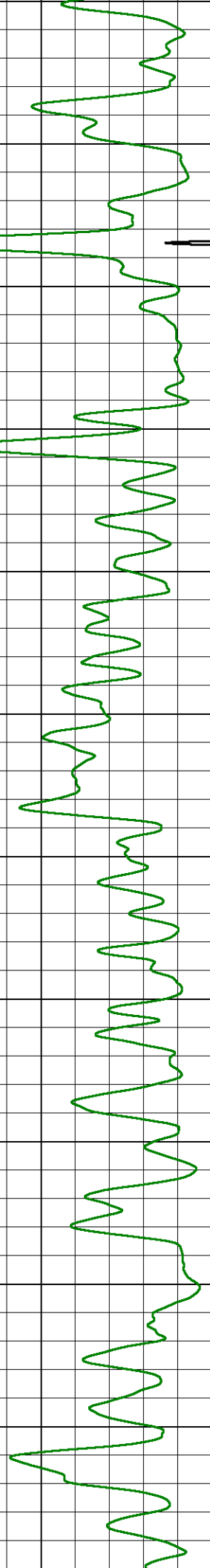
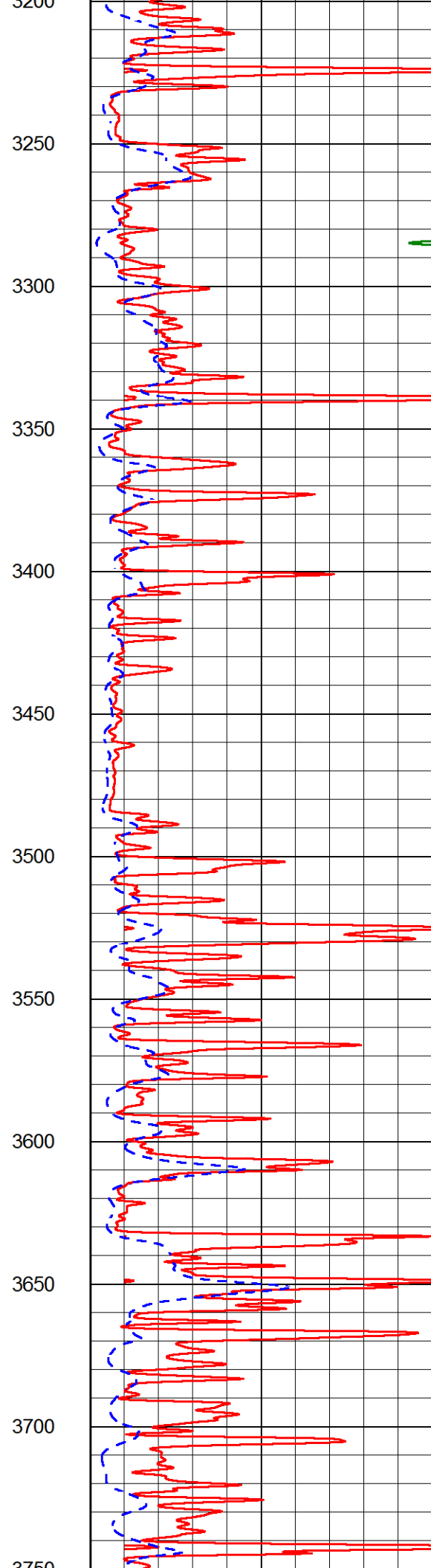
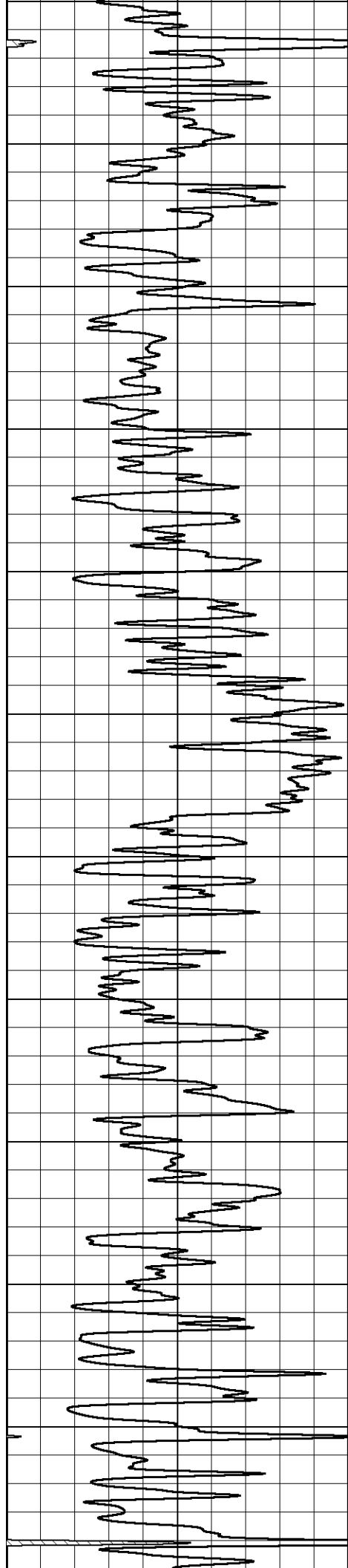
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2400
2450
2500
2550
2600
2650

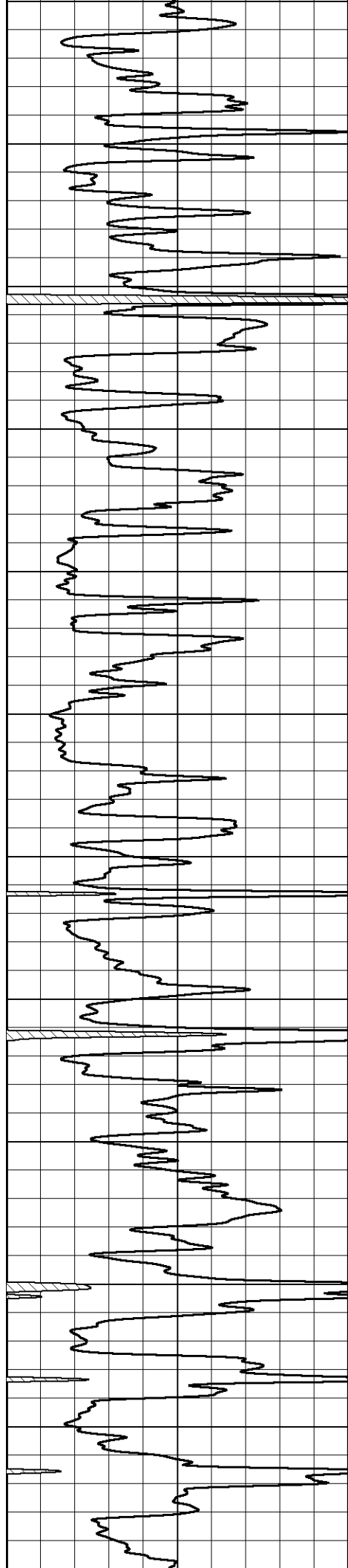




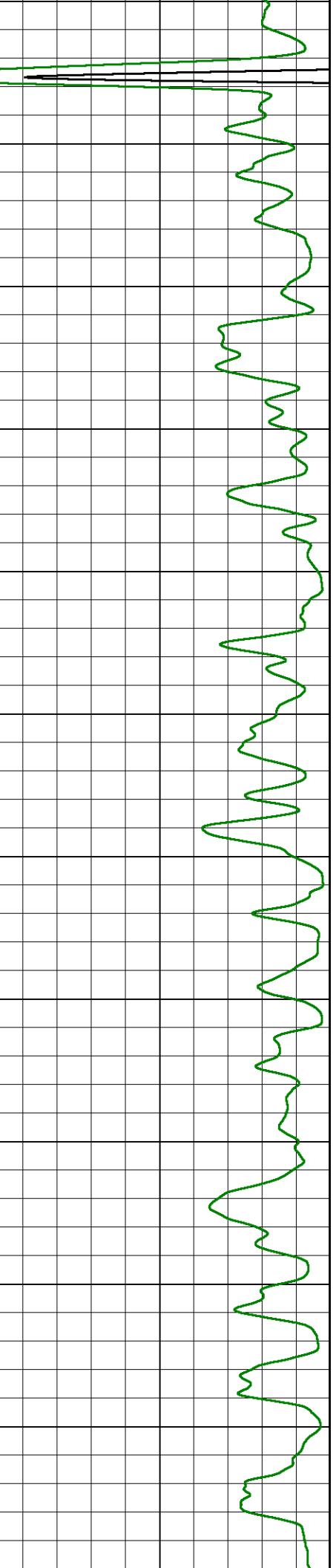
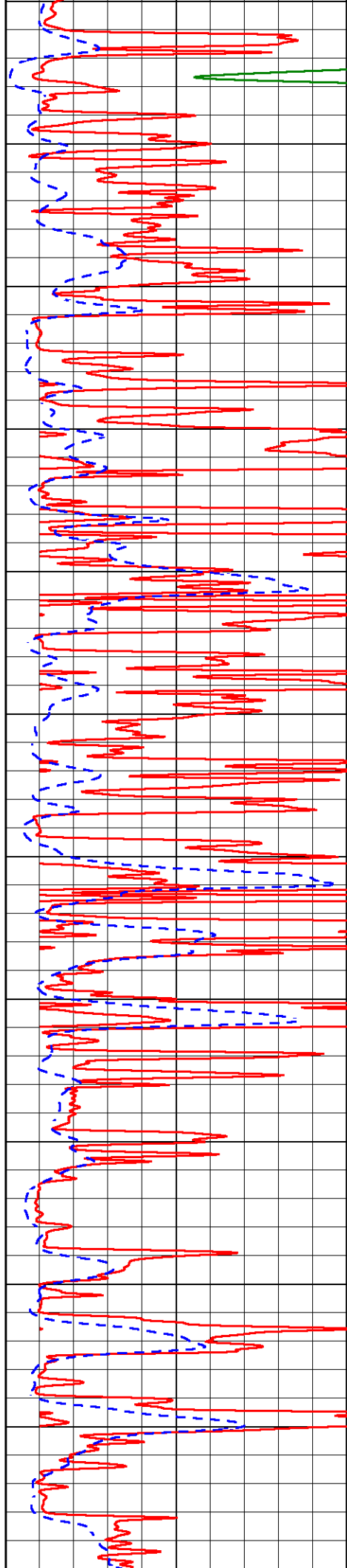
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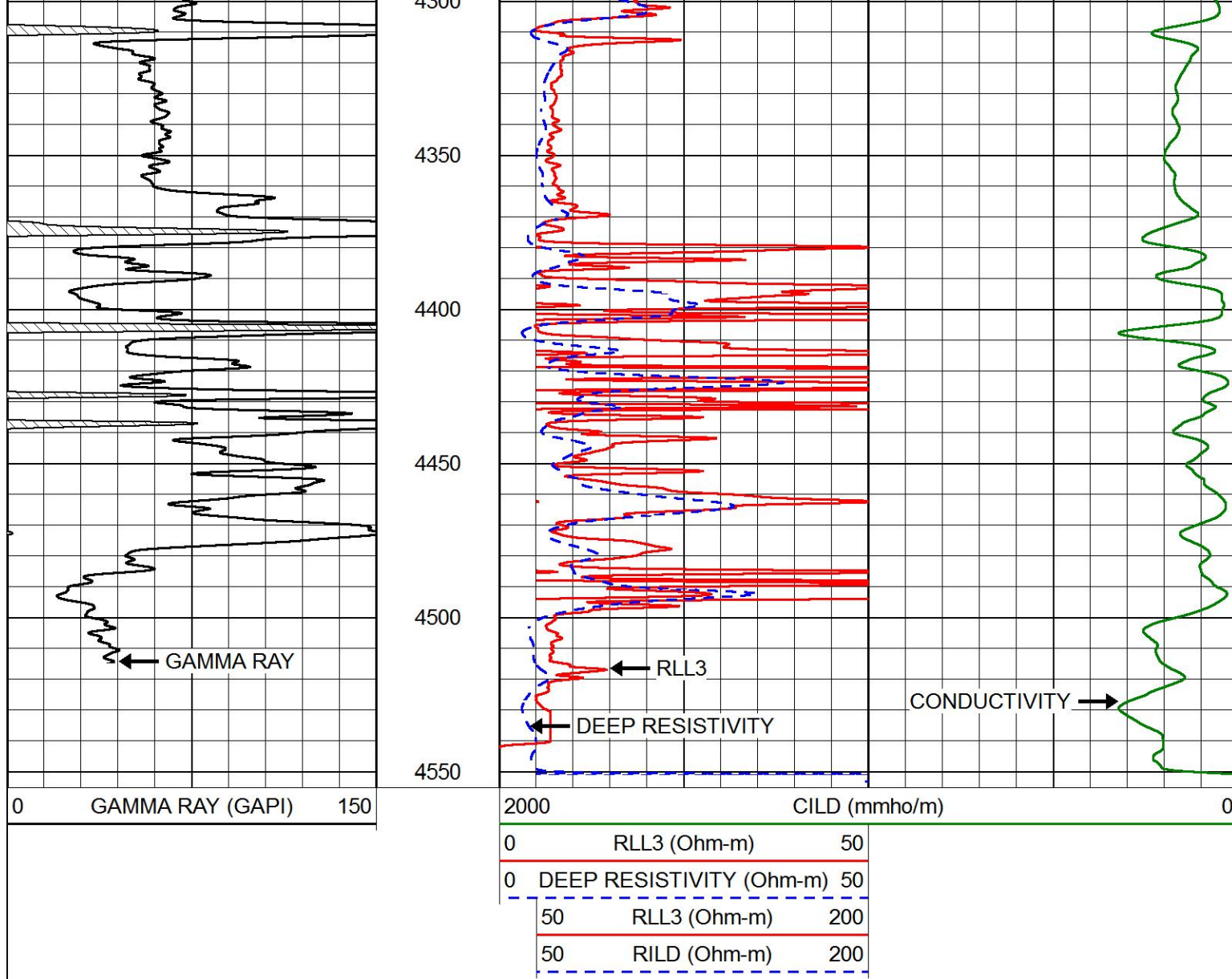






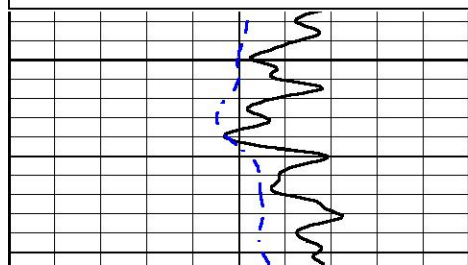
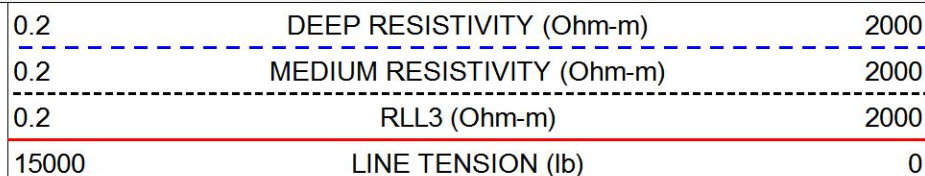
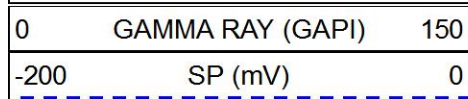
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4300



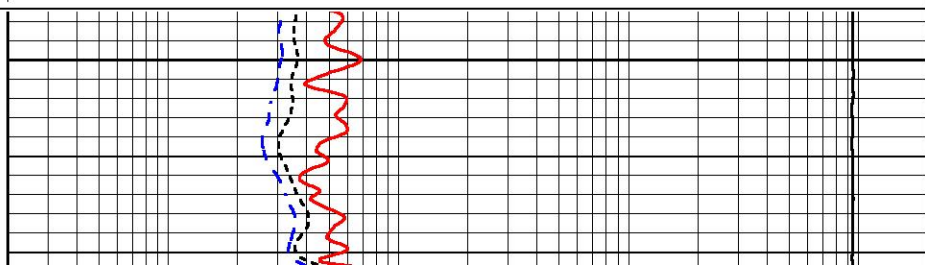


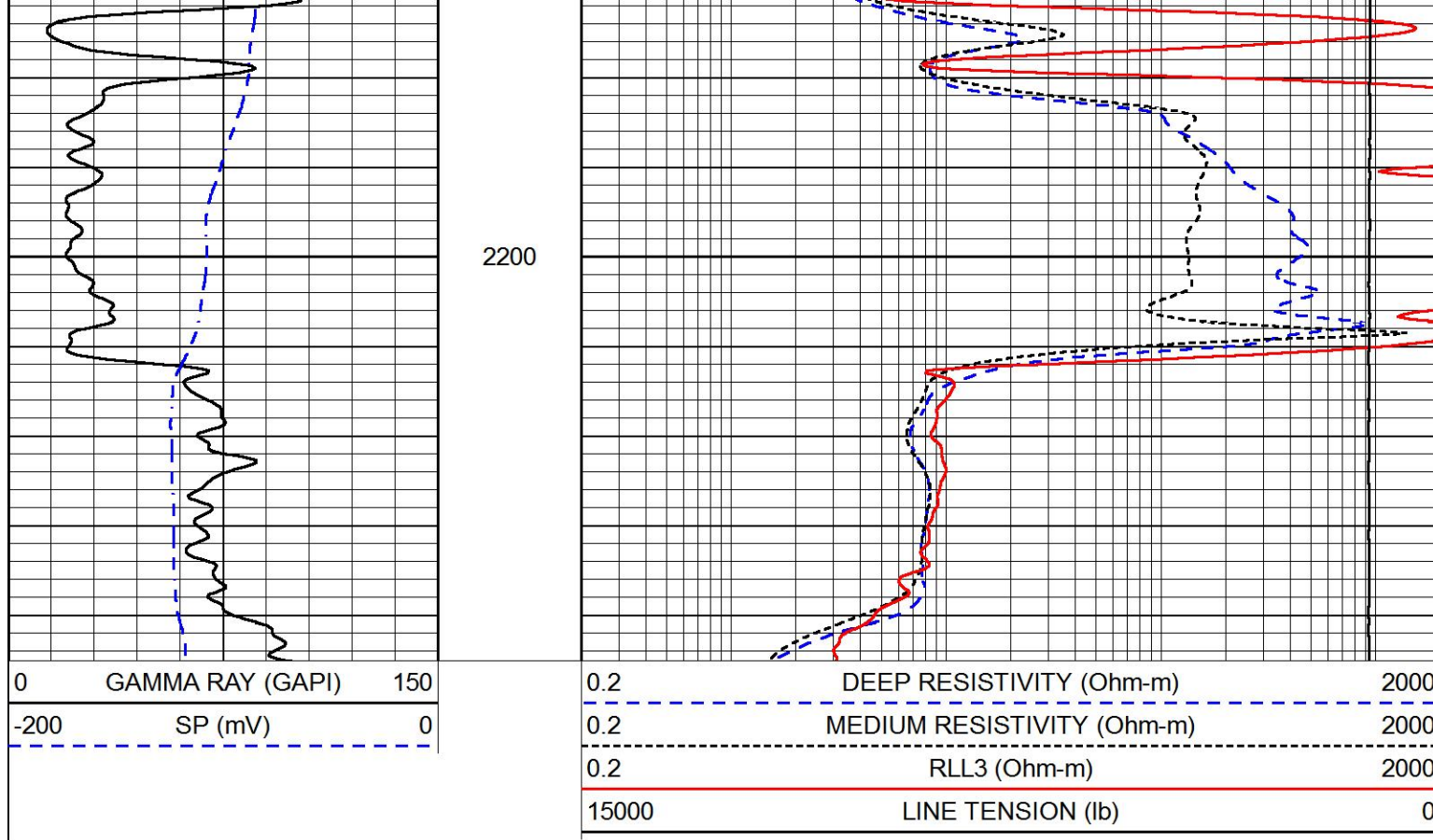
MAIN PASS

Database File brito_wylie_1_31.db
Dataset Pathname stackml/pass5.1
Presentation Format dil
Dataset Creation Mon Apr 15 14:25:29 2019
Charted by Depth in Feet scaled 1:240



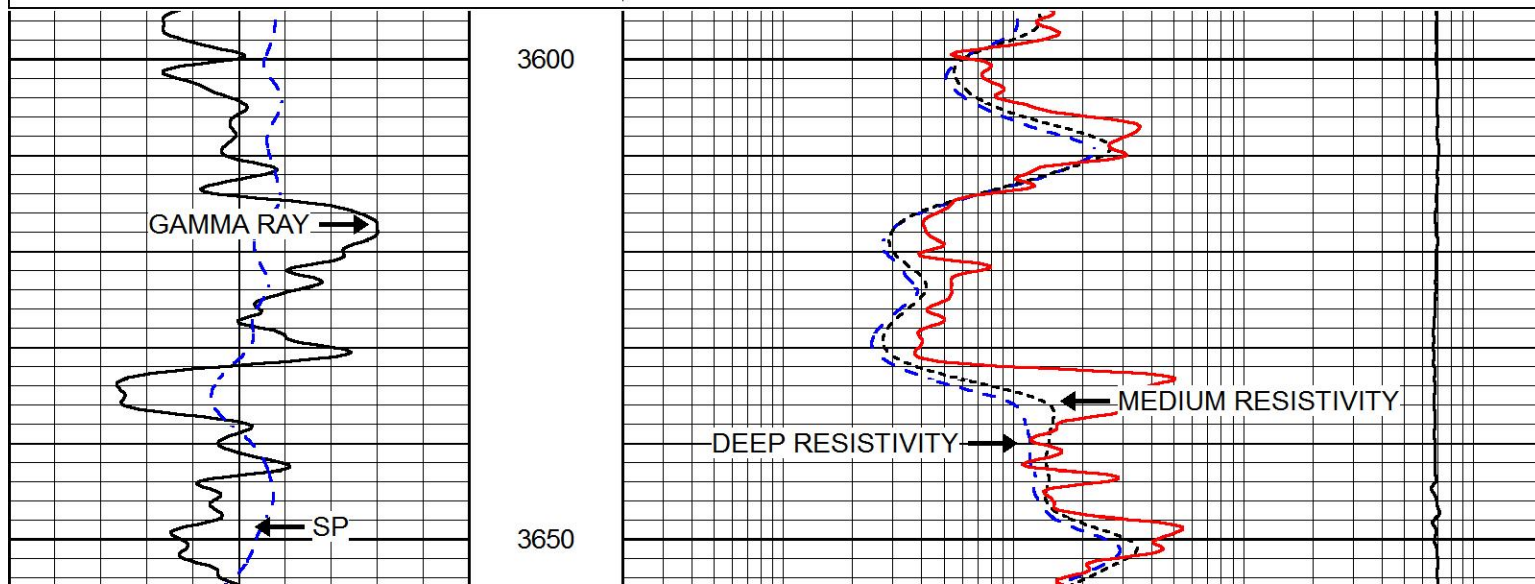
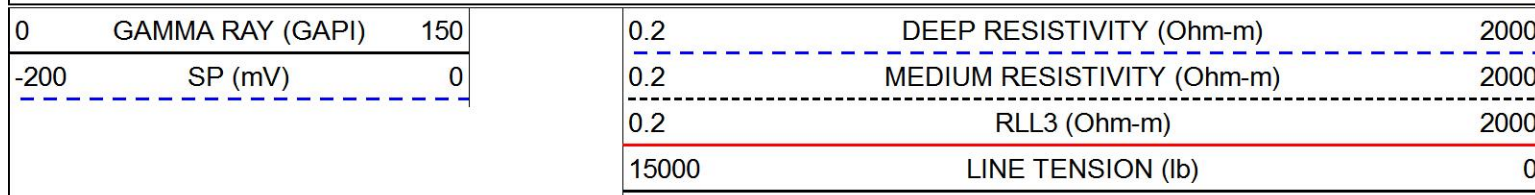
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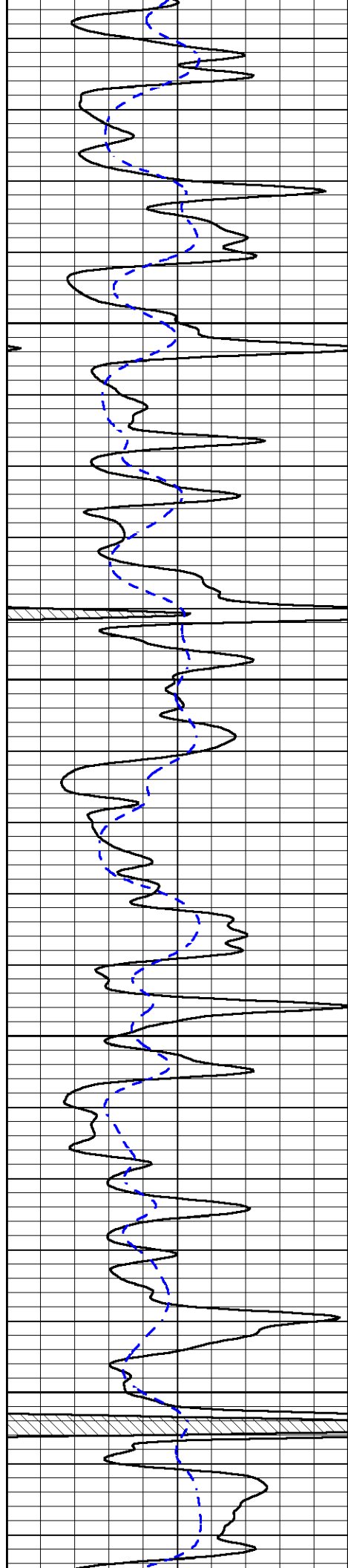




MAIN PASS

Database File brito_wylie_1_31.db
 Dataset Pathname stackml/pass5.1
 Presentation Format dil
 Dataset Creation Mon Apr 15 14:25:29 2019
 Charted by Depth in Feet scaled 1:240



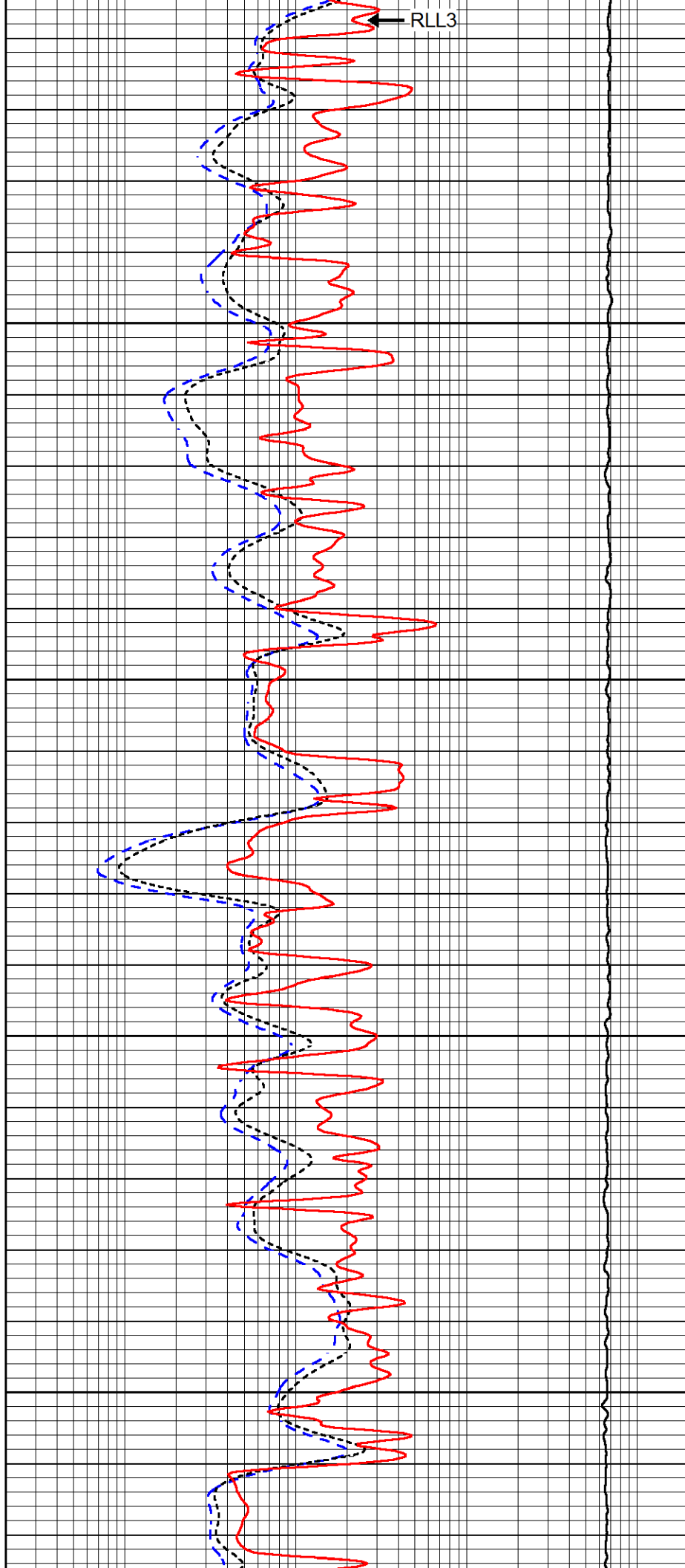


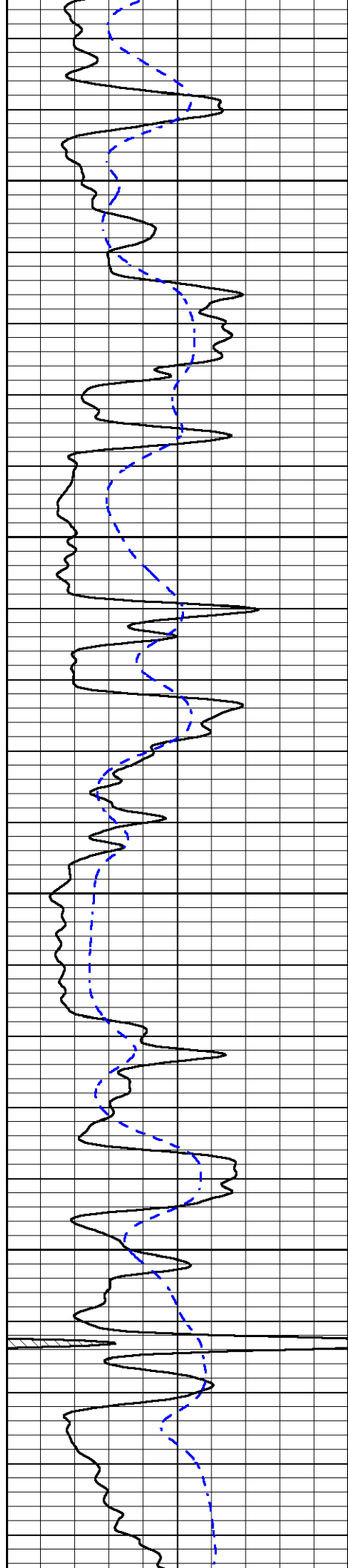
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3800

3850



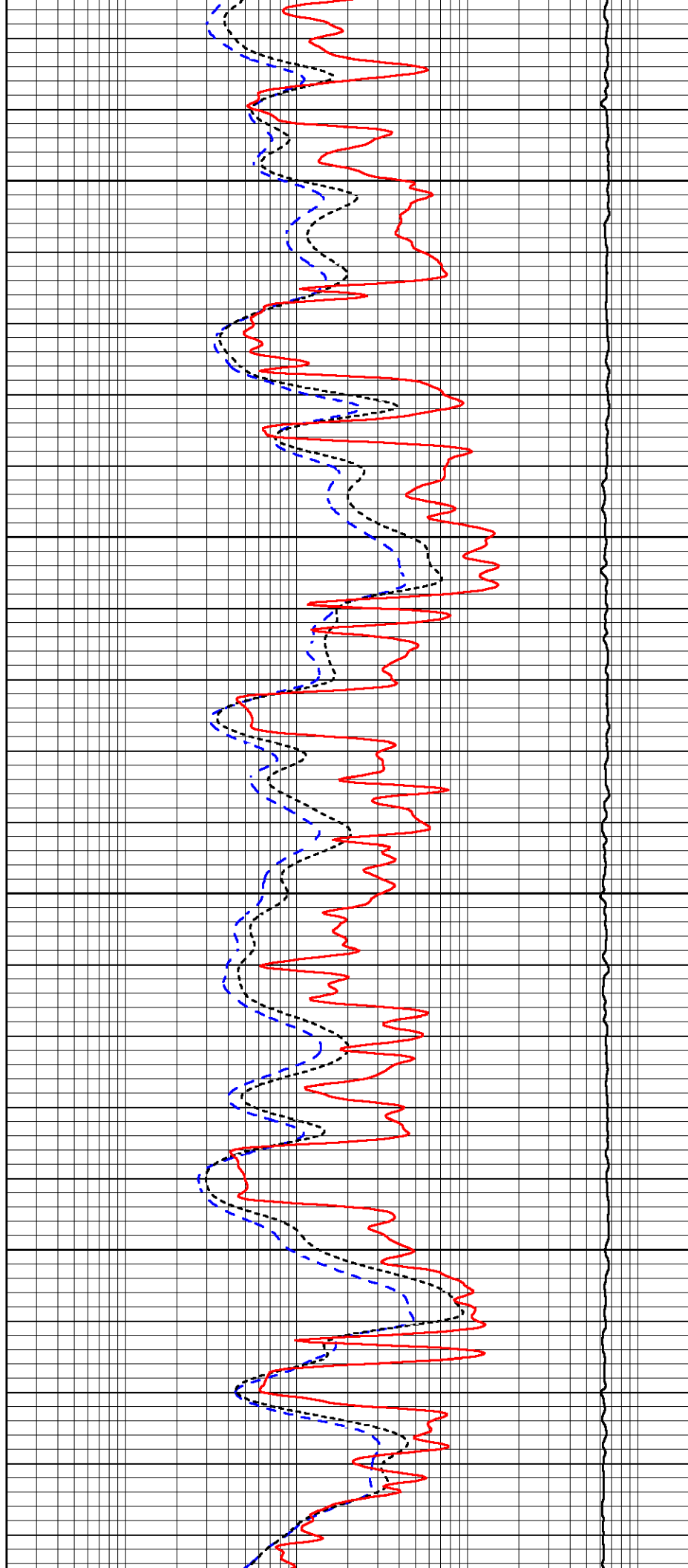


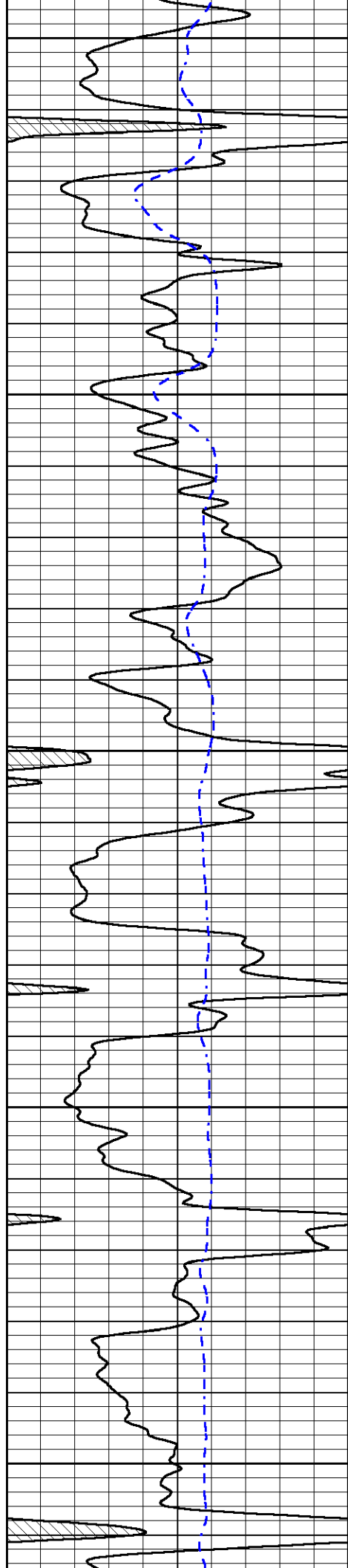
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4050





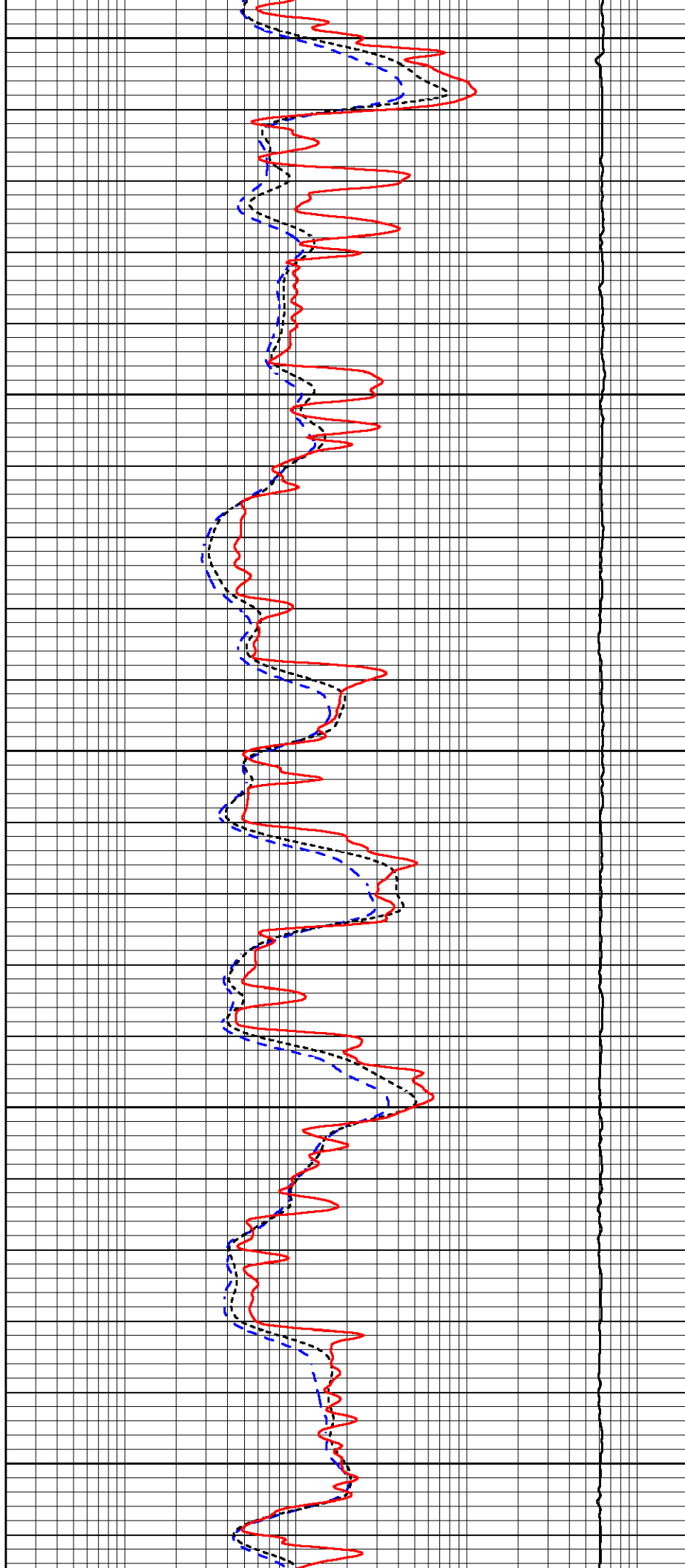
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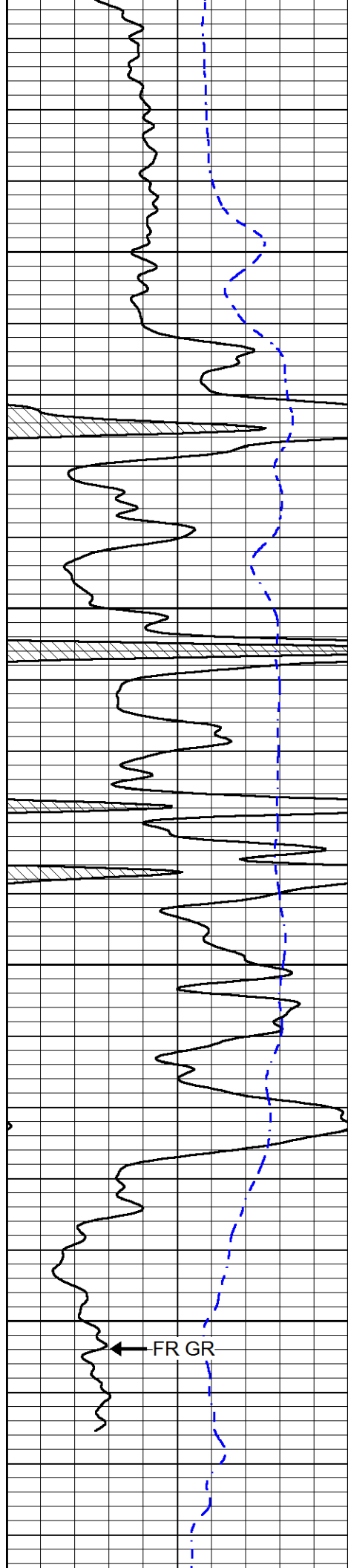
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4300





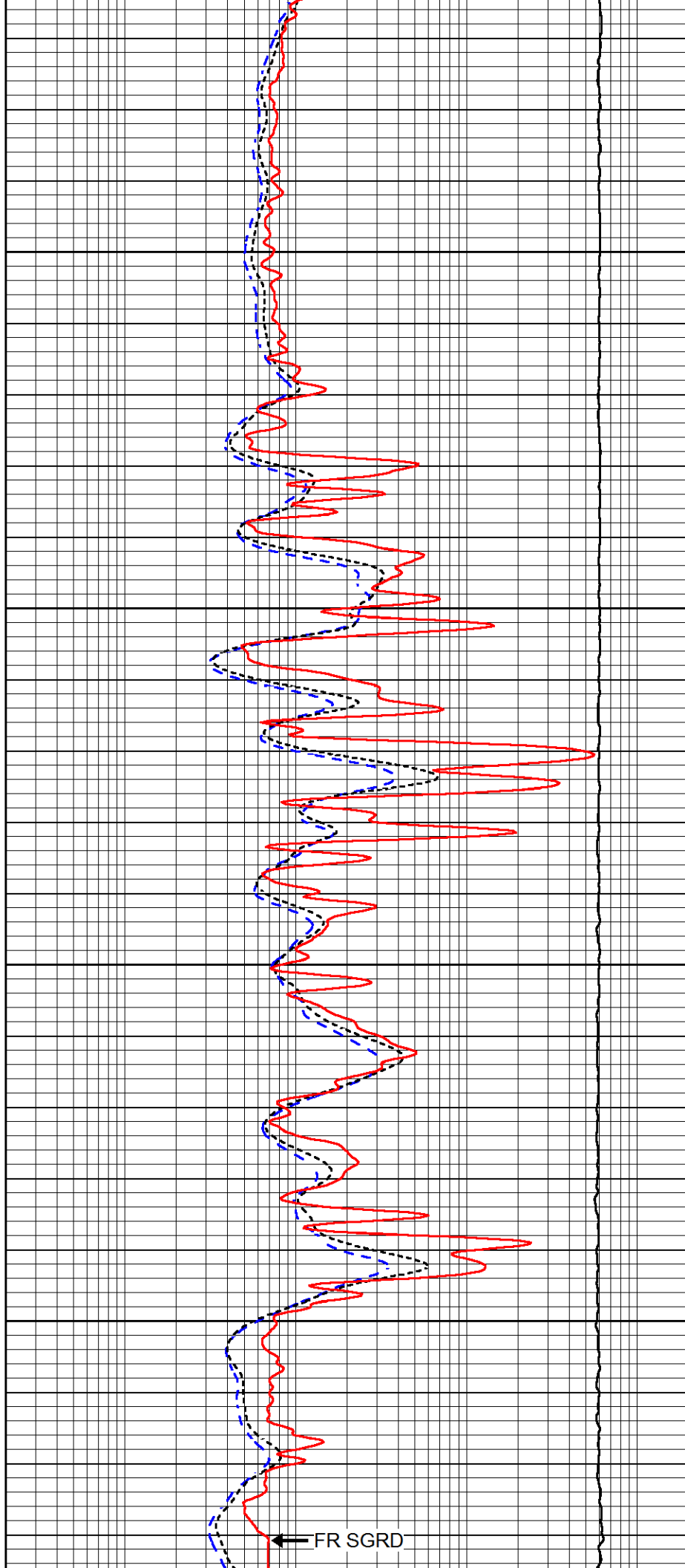
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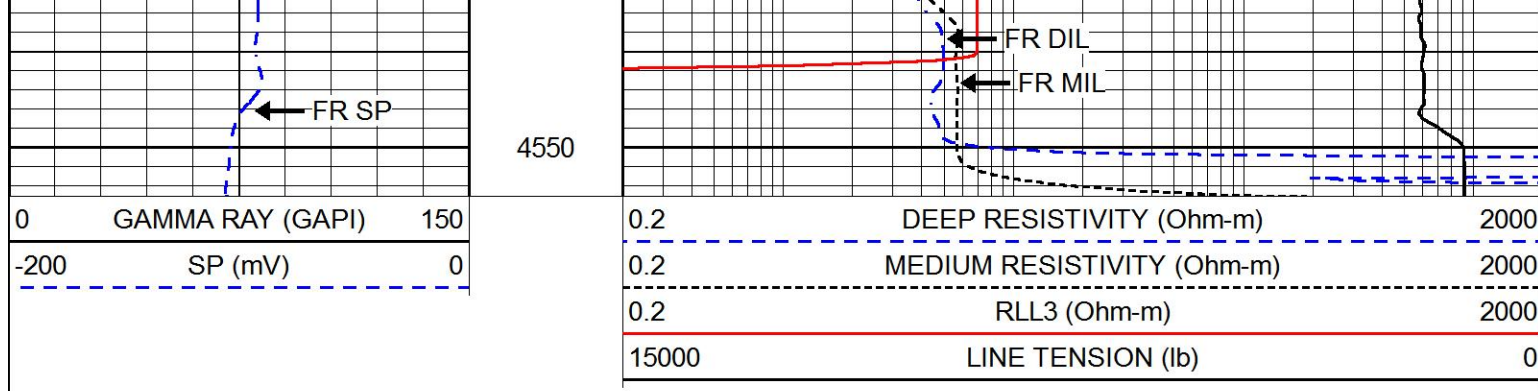
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4500

← FR GR

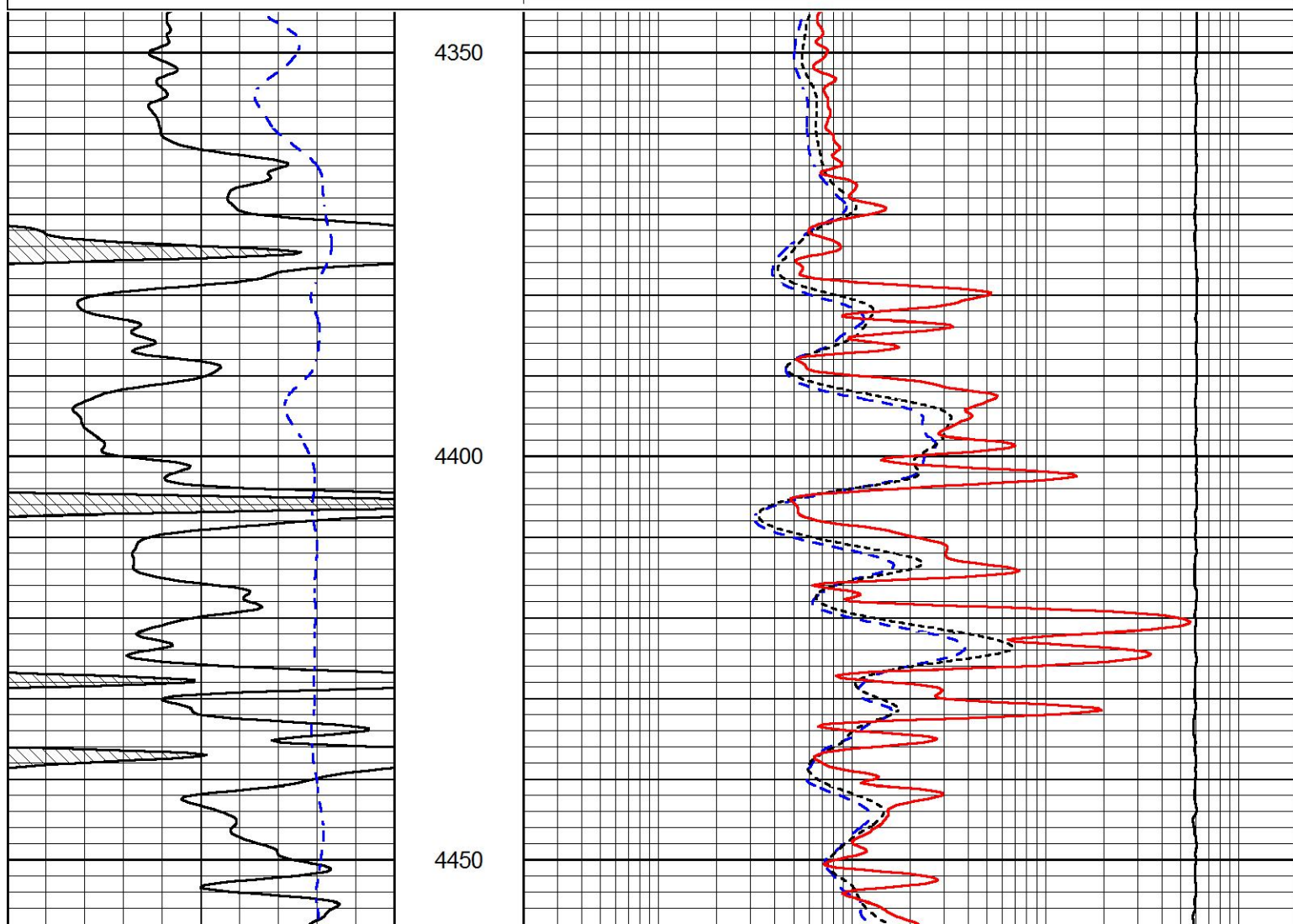
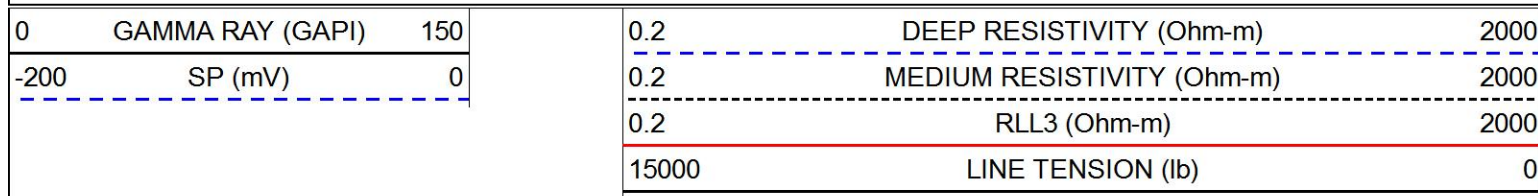


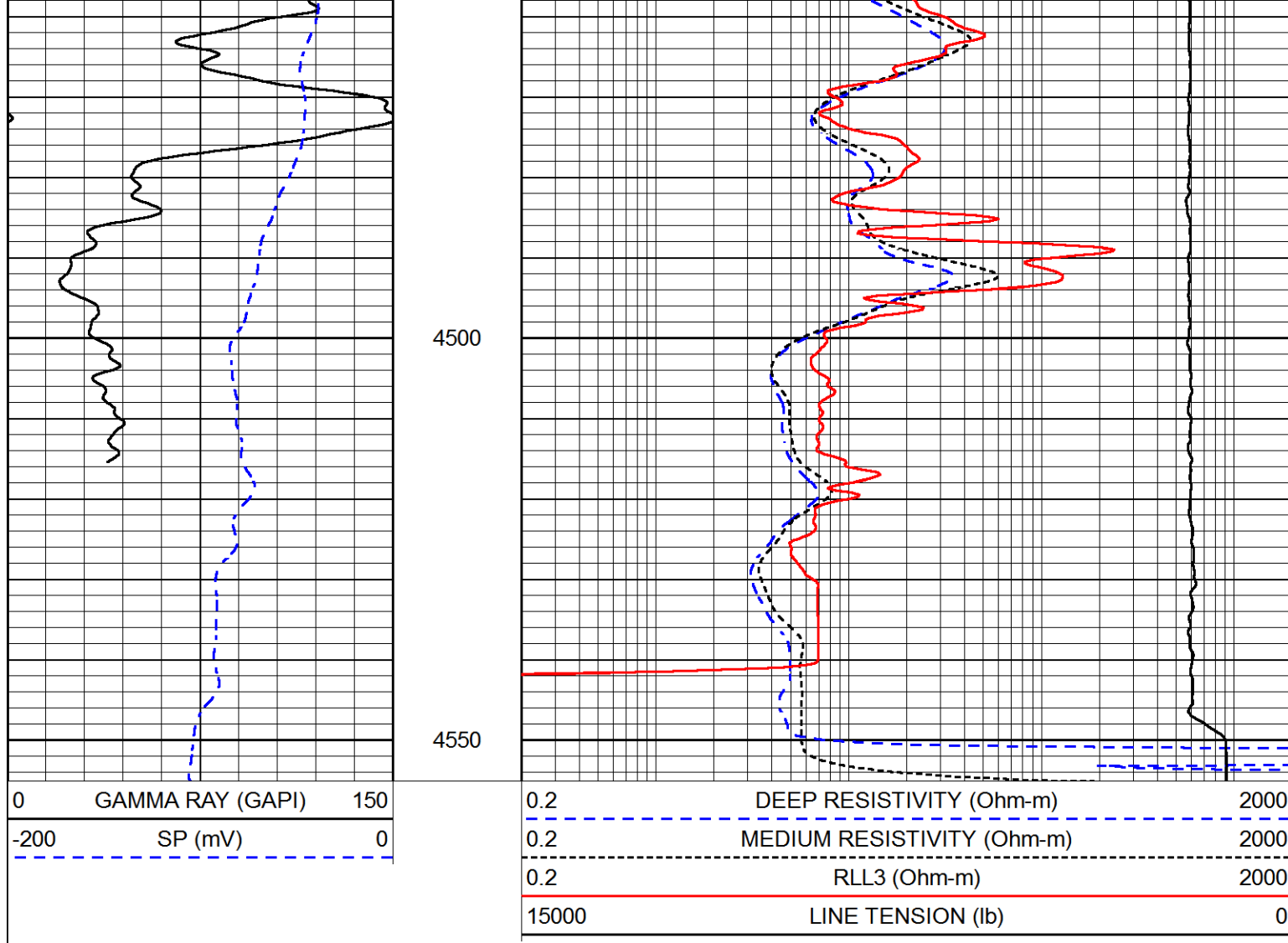
← FR SGRD



REPEAT SECTION

Database File	brito_wylie_1_31.db
Dataset Pathname	stackml/pass4.1
Presentation Format	dil
Dataset Creation	Mon Apr 15 14:01:51 2019
Charted by	Depth in Feet scaled 1:240





Calibration Report		
Database File	brito_wylie_1_31.db	
Dataset Pathname	stackml/pass5.1	
Dataset Creation	Mon Apr 15 14:25:29 2019	

Dual Induction Calibration Report

Serial-Model:	PSI 988-M&W
Calibration Performed:	Tue Nov 20 10:50:19 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.525	-44.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.380	-17.000

Microlog Calibration Report

Serial-Model:	PSI-01-PSI STKBL ML
Performed:	Thu Mar 31 18:14:32 2016

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	32500.0000	-1.7000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm m	33500.0000	1.0000

Inverse	0.0000	1.0000	0.0000	1.0000	Offset	55500.0000	-1.0000
Caliper	1.0001	1.1397	6.5000	18.5000	in	86.0000	-82.5500
Compensated Density Calibration Report							
Serial-Model:			144-84-M&W				
Source / Verifier:			/				
Master Calibration Performed:			Mon Jan 07 15:00:31 2019				
Master Calibration							
	Density			Far Detector		Near Detector	
Magnesium	1.755	g/cc		4315.49	5309.89	cps	
Aluminum	2.675	g/cc		825.26	3443.46	cps	
Spine Angle = 75.33			Density/Spine Ratio = 0.538				
	Size			Reading			
Small Ring	4.00	in		0.69			
Large Ring	14.00	in		0.04			

Compensated Neutron Calibration Report					
Serial Number:		tk10-MW			
Tool Model:		M&W			
Calibration Performed:		Wed Nov 16 11:21:36 2016			
Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500
Gamma Ray Calibration Report					
Serial Number:		89-M&W			
Tool Model:		M&W			
Calibration Performed:		Tue Apr 11 17:08:01 2017			
Calibrator Value:		1000.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		6.2	cps		
Sensitivity:		0.5200	GAPI/cps		

		Company	BRITO OIL COMPANY, INC.
		Well	WYLIE NO. 1-31
		Field	EAGLE RIDGE
		County	GOVE
		State	KANSAS