



DUAL INDUCTION LOG

MIDWEST WIRELINE

Company Blue Goose Drilling Co. Inc.					
Well	Borell "I" #1				
Field	LS East				
County	Lane				
State	Kansas				
Location: API #: 15-101-22663-00-00					
2310 FSL & 2290 FWL					
SEC 33 TWP 17S RGE 27W	CNL/CDL MEL				
Permanent Datum	Ground Level	Elevation	2695	Elevation	
Log Measured From	Kelly Bushing			K.B.	2705
Drilling Measured From	Kelly Bushing			D.F.	
				G.L.	2695
Date	1/18/2022				
Run Number	One				
Depth Driller	4665				
Depth Logger	4666				
Bottom Logged Interval	4665				
Top Log Interval	250				
Casing Driller	8.625 @ 255				
Casing Logger	251				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity, ppm CL	4500				
Density / Viscosity	9.2	64			
pH / Fluid Loss	10.0	8.8			
Source of Sample	FLOWLINE				
Rm @ Meas. Temp	.7 @ 75				
Rmt @ Meas. Temp	.53 @ 75				
Rmc @ Meas. Temp	.95 @ 75				
Source of Rmt / Rmc	CHARTS				
Rm @ BHT	.43 @ 123				
Operating Rig Time	2 Hours				
Max Rec. Temp. F	123				
Equipment Number	P-108				
Location	HAYS				
Recorded By	J. Henrickson				
Witnessed By	Ken Wallace				

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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.

Ness City
West to Turkey Red, 4 1/2 North, 1/2 West,
South Into

Log Measured From: Kelly Bushing

10 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew

Engineer: J. Henrickson
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Ken Wallace
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 123	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 510	degF 59	Off	ft 4666

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (103)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (210)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (303-03)	8.50	4.00	250.00
ML-PSI STKBL ML (402)			ML-PSI STKBL ML (402)	7.58	4.00	65.00
MCAL MI MN	19.58 19.58 19.58					
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (504 HT)	18.25	3.50	220.00

CILM

4.50

SP

0.20

Dataset: blue_goose_borell_i_1.db: field/well/stackml/pass3.1
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in



MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

Database File blue_goose_borell_i_1.db
 Dataset Pathname stackml/pass3.1
 Presentation Format _dil2in
 Dataset Creation Tue Jan 18 16:02:25 2022
 Charted by Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

1000 Conductivity (mmho/m) 0

15000 Line Tension (lb) 0

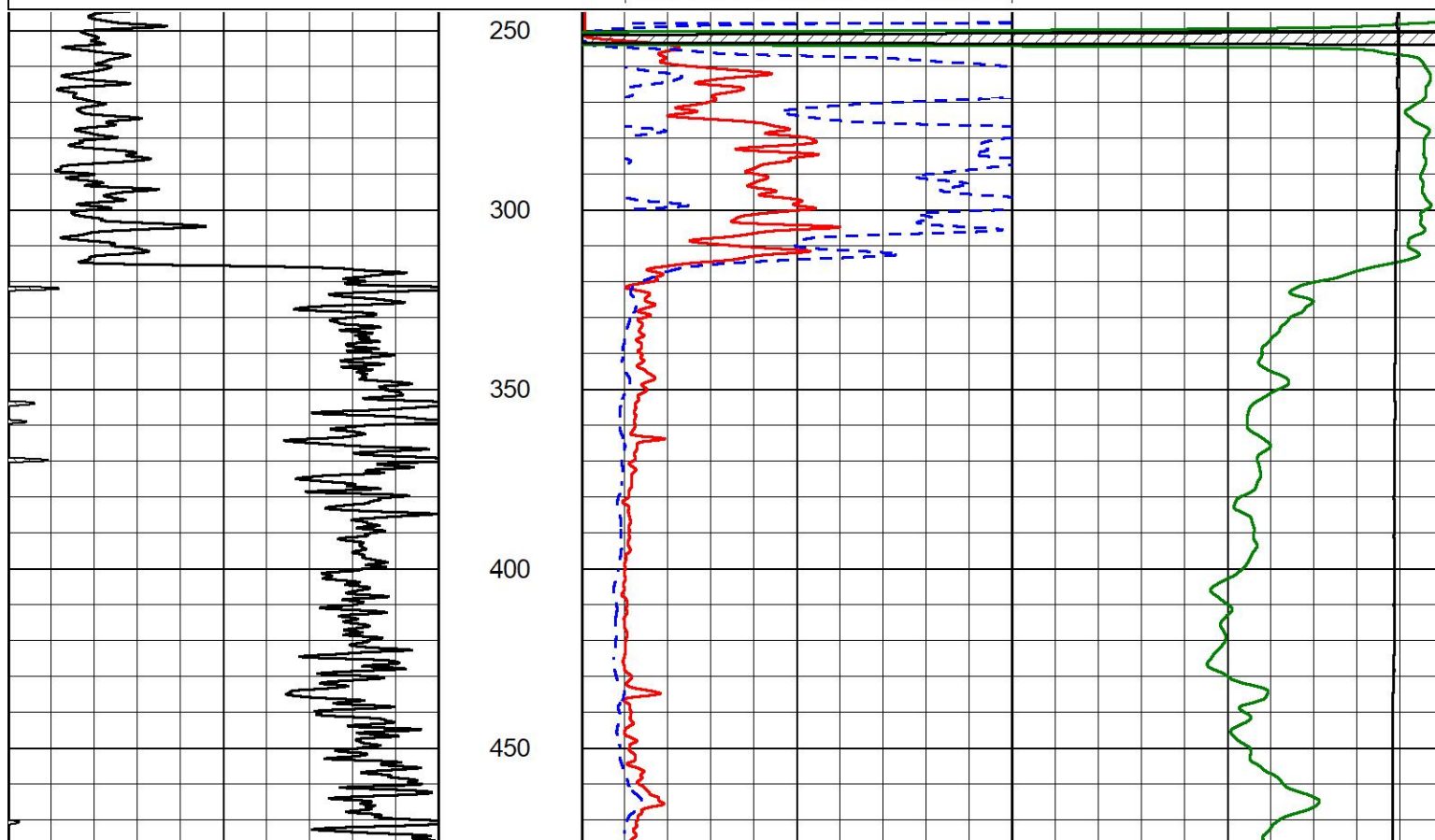
0 Shallow Resistivity (Ohm-m) 50

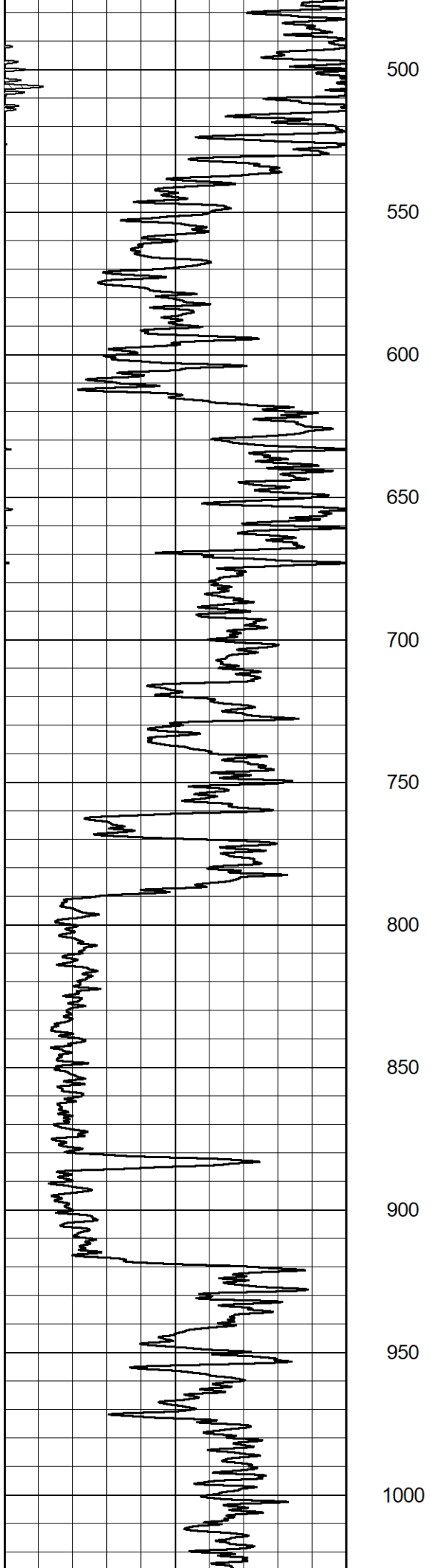
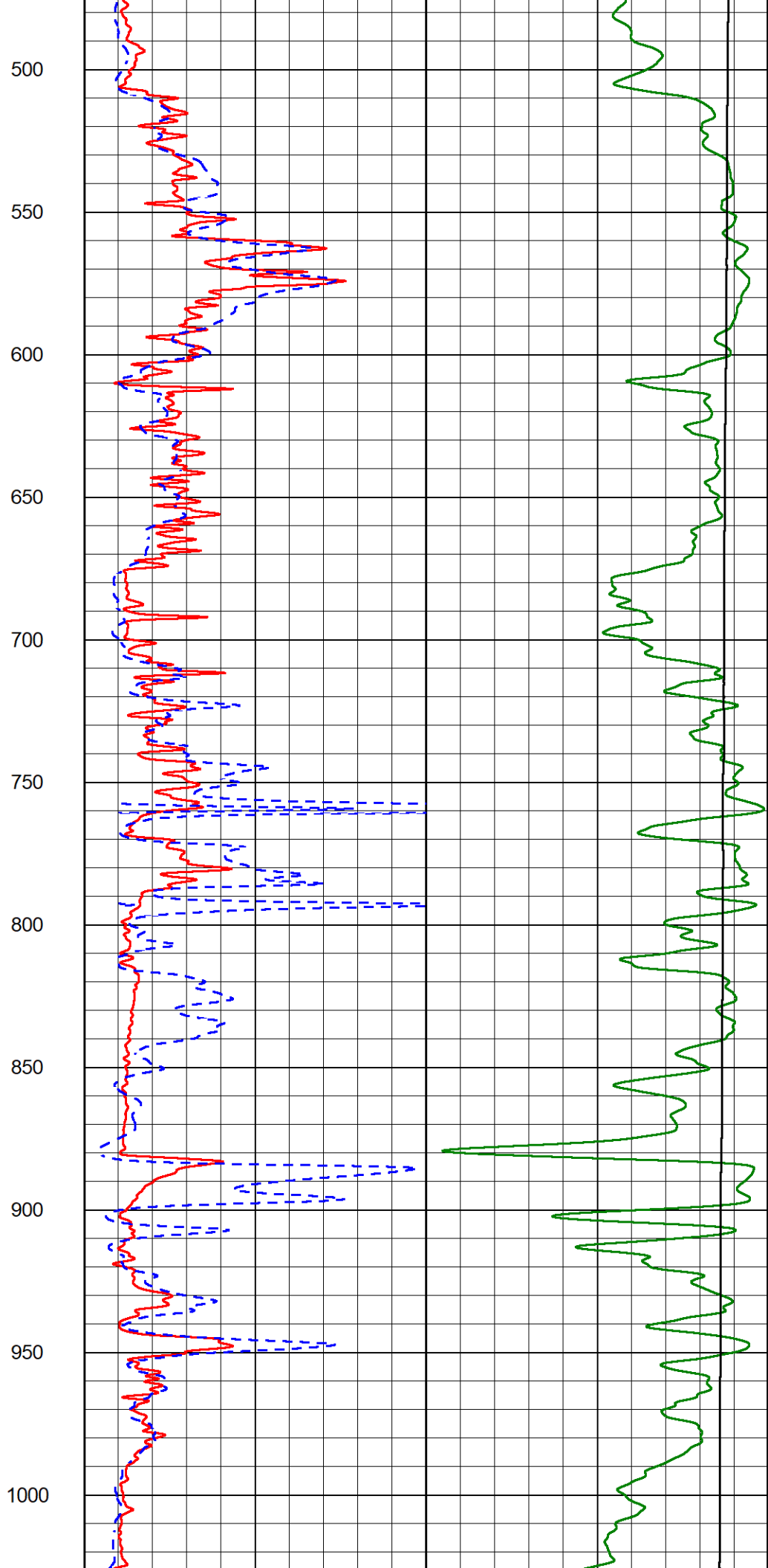
0 Deep Resistivity (Ohm-m) 50

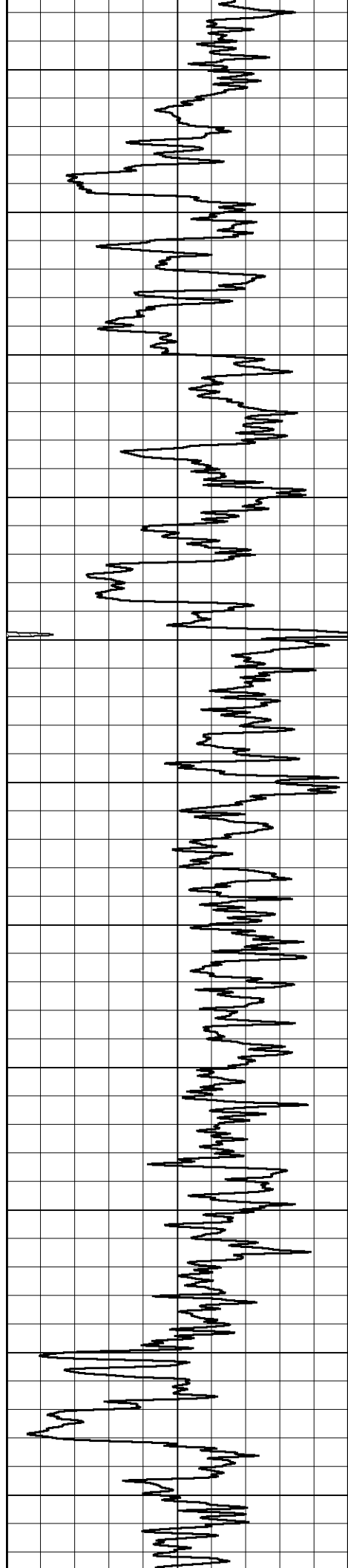
Shallow Resistivity

50 (Ohm-m) 200

50 Deep Resistivity (Ohm-m) 200







1050

1100

1150

1200

1250

1300

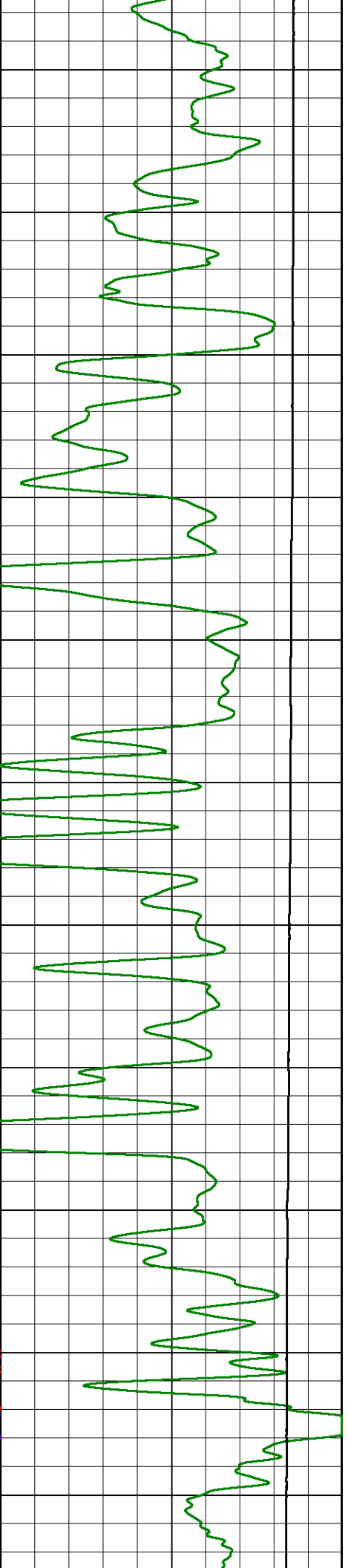
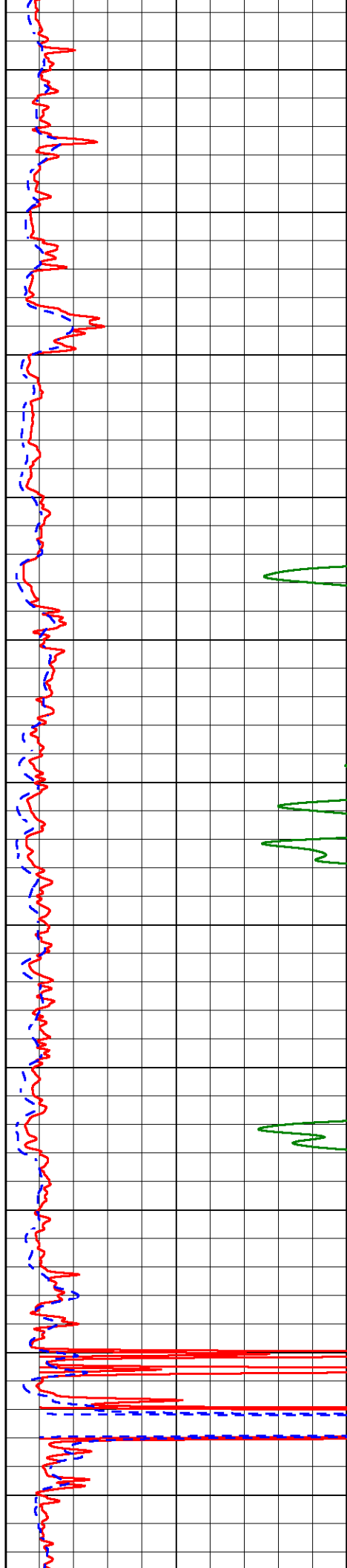
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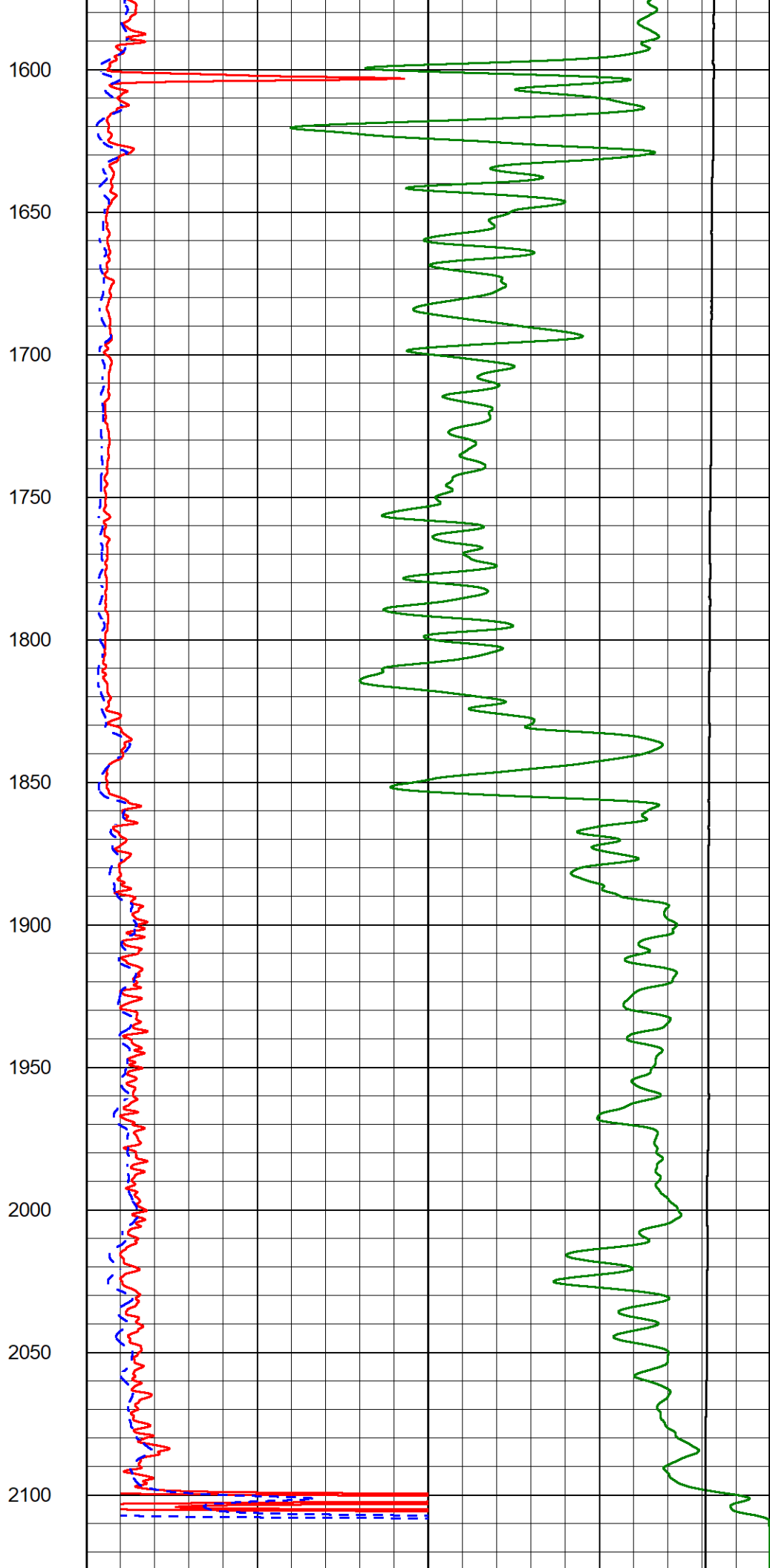
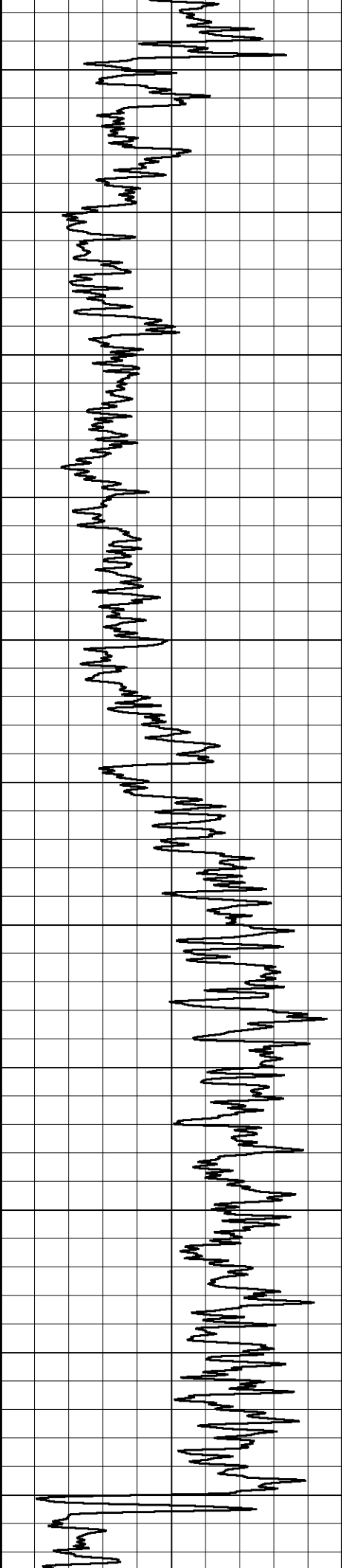
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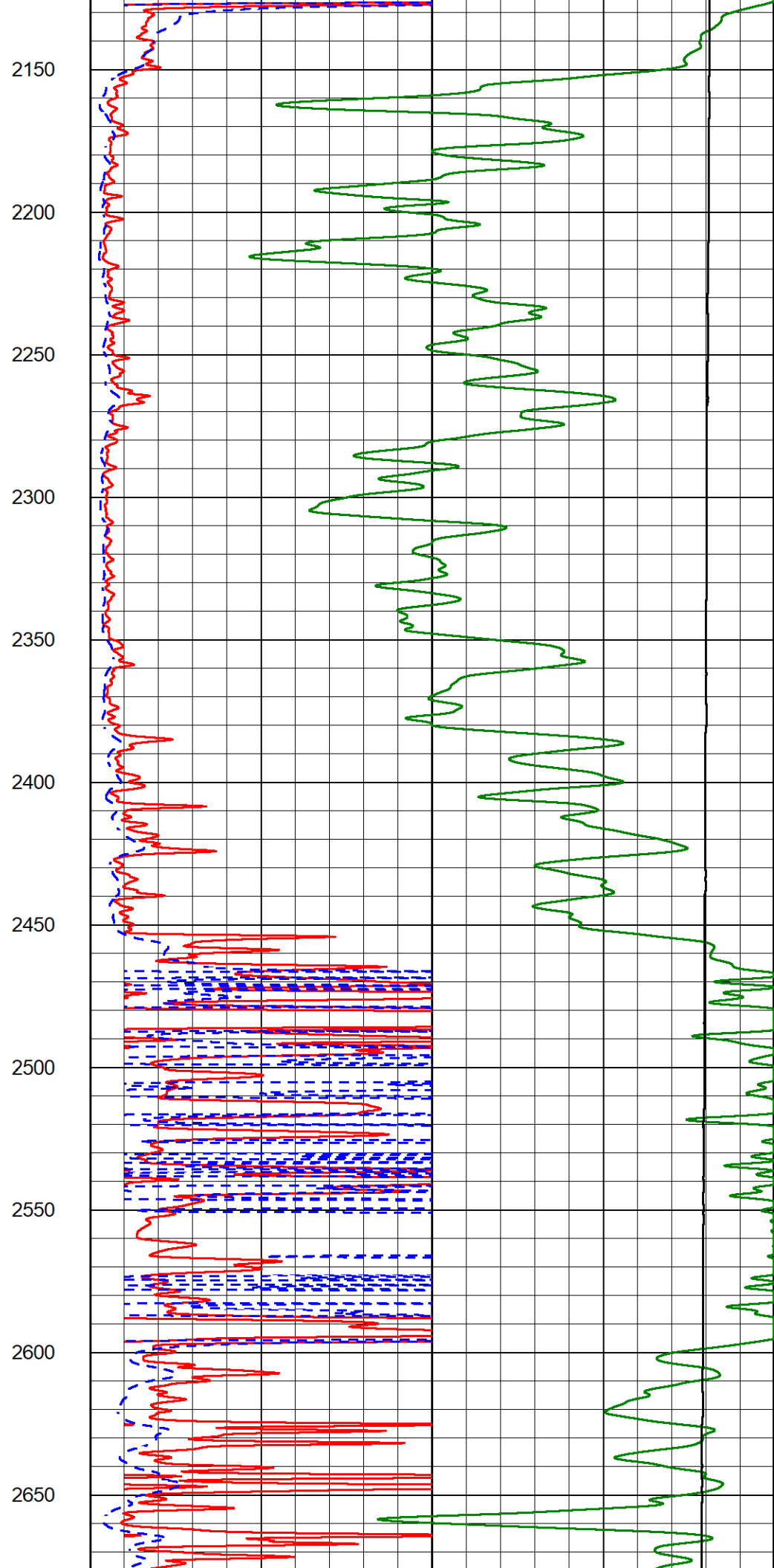
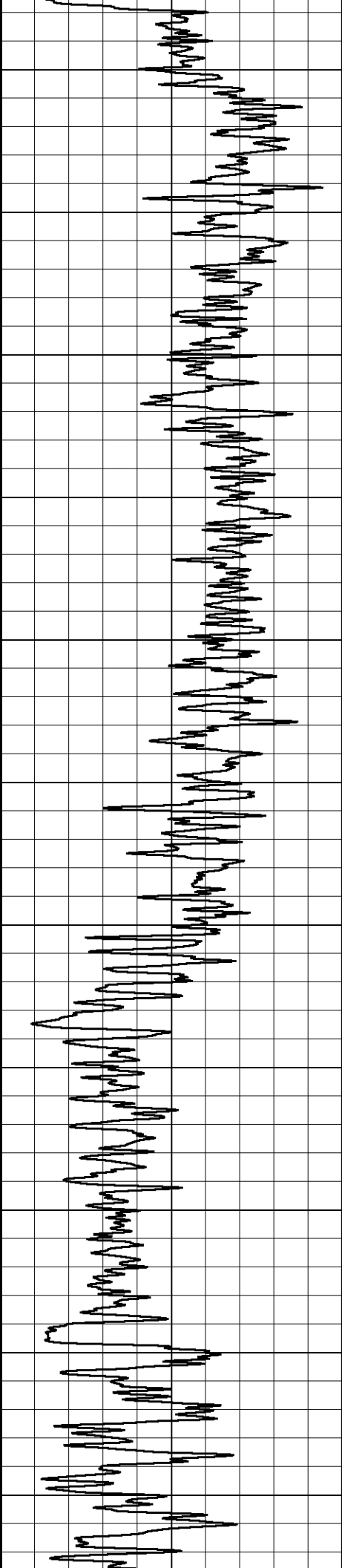
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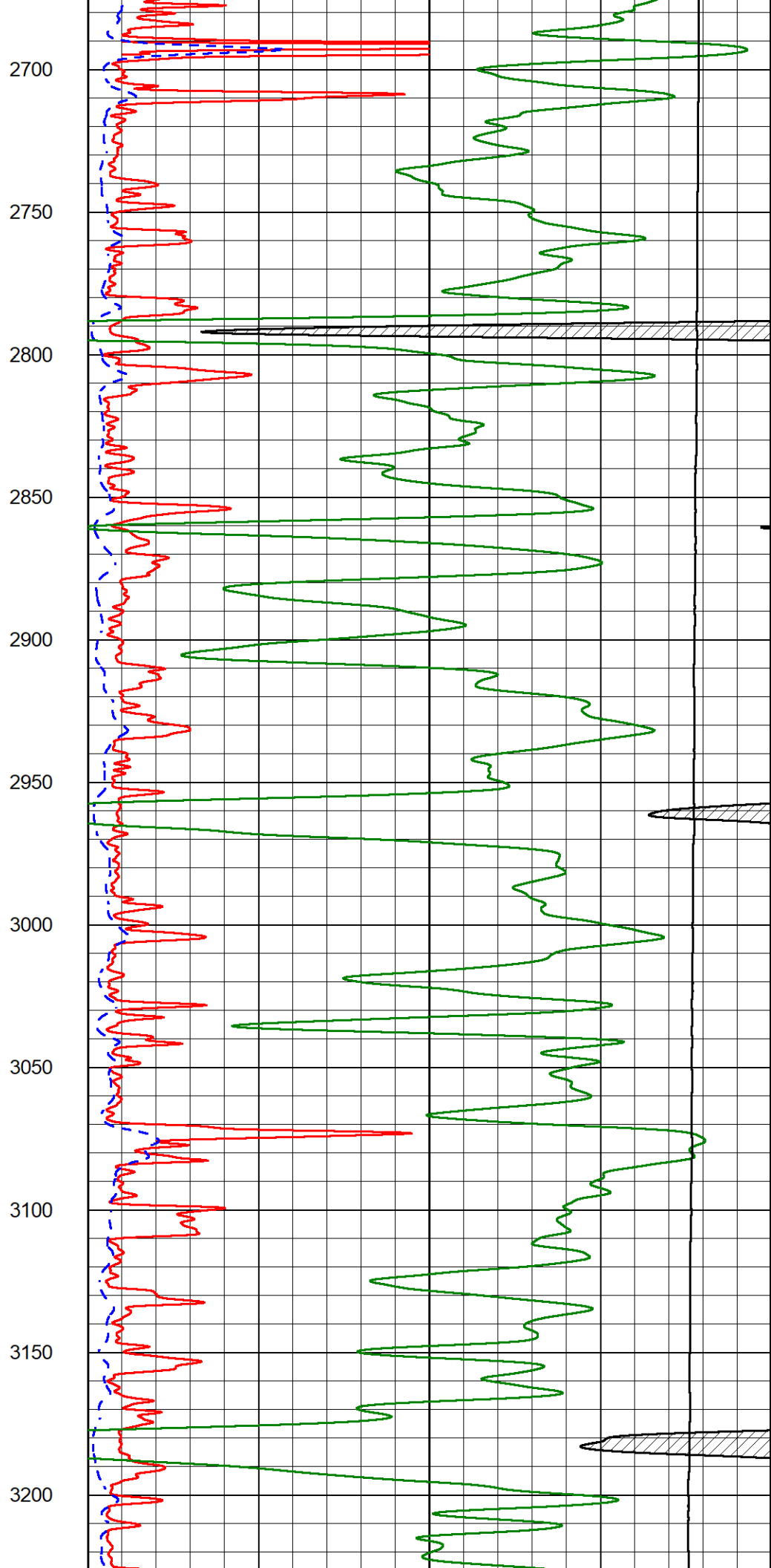
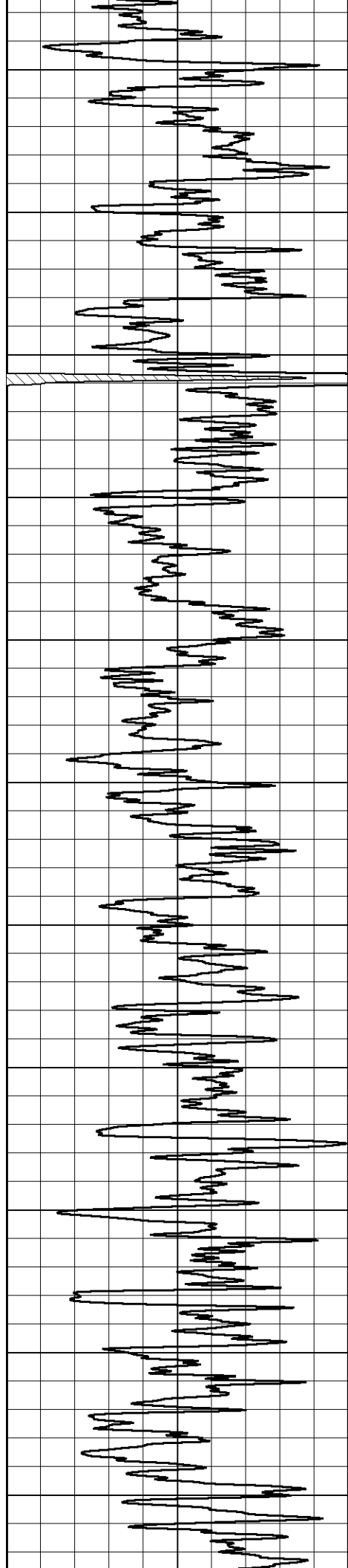
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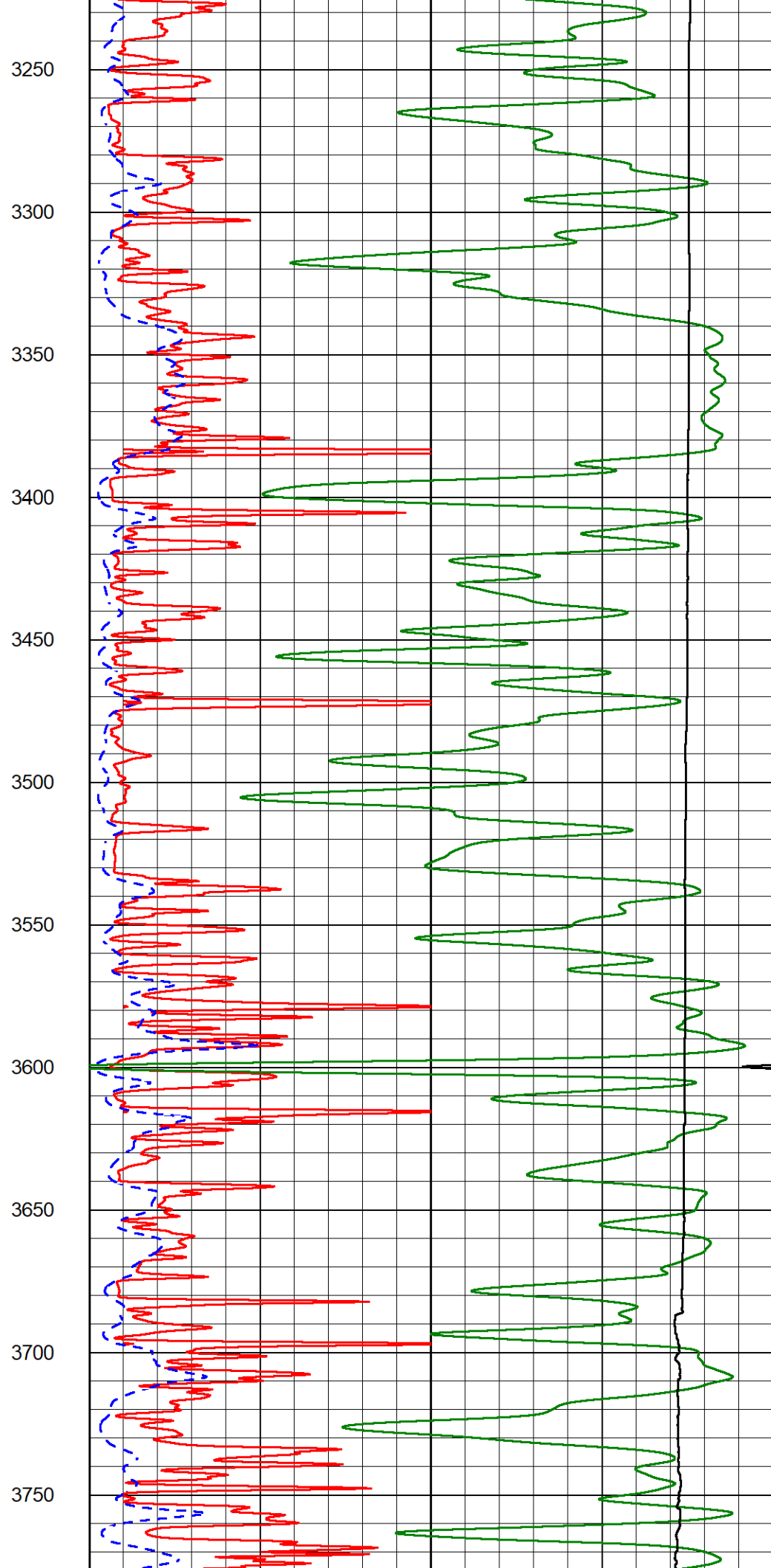
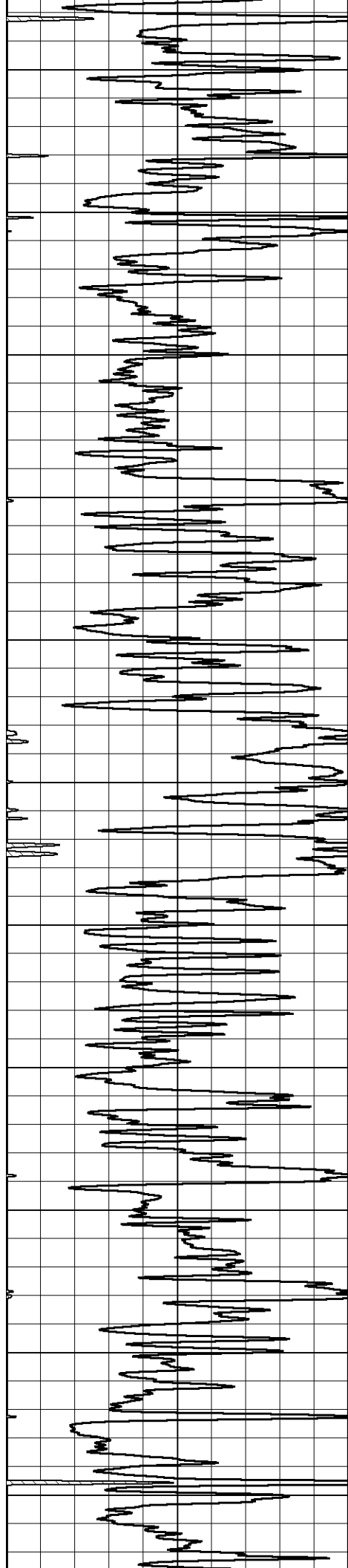
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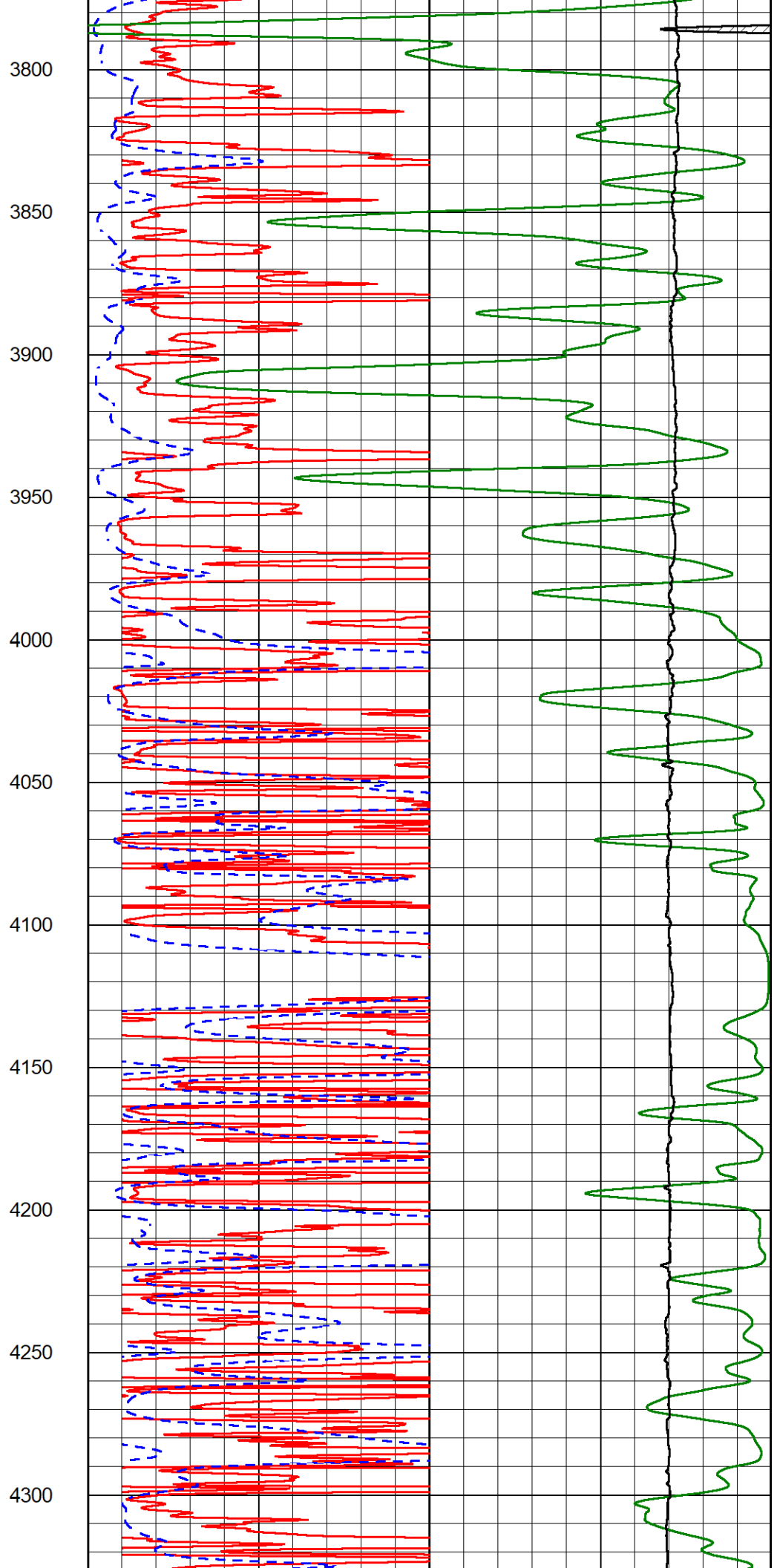
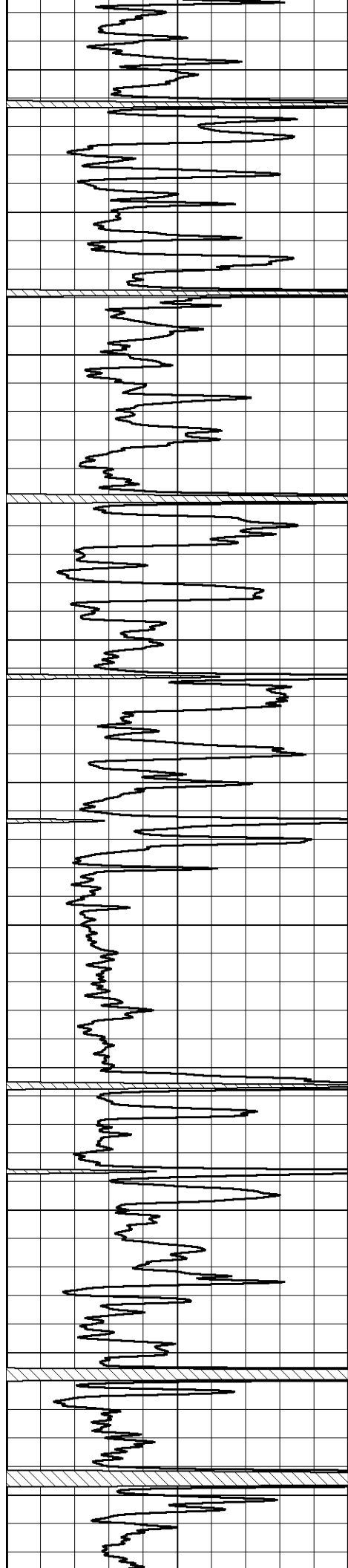


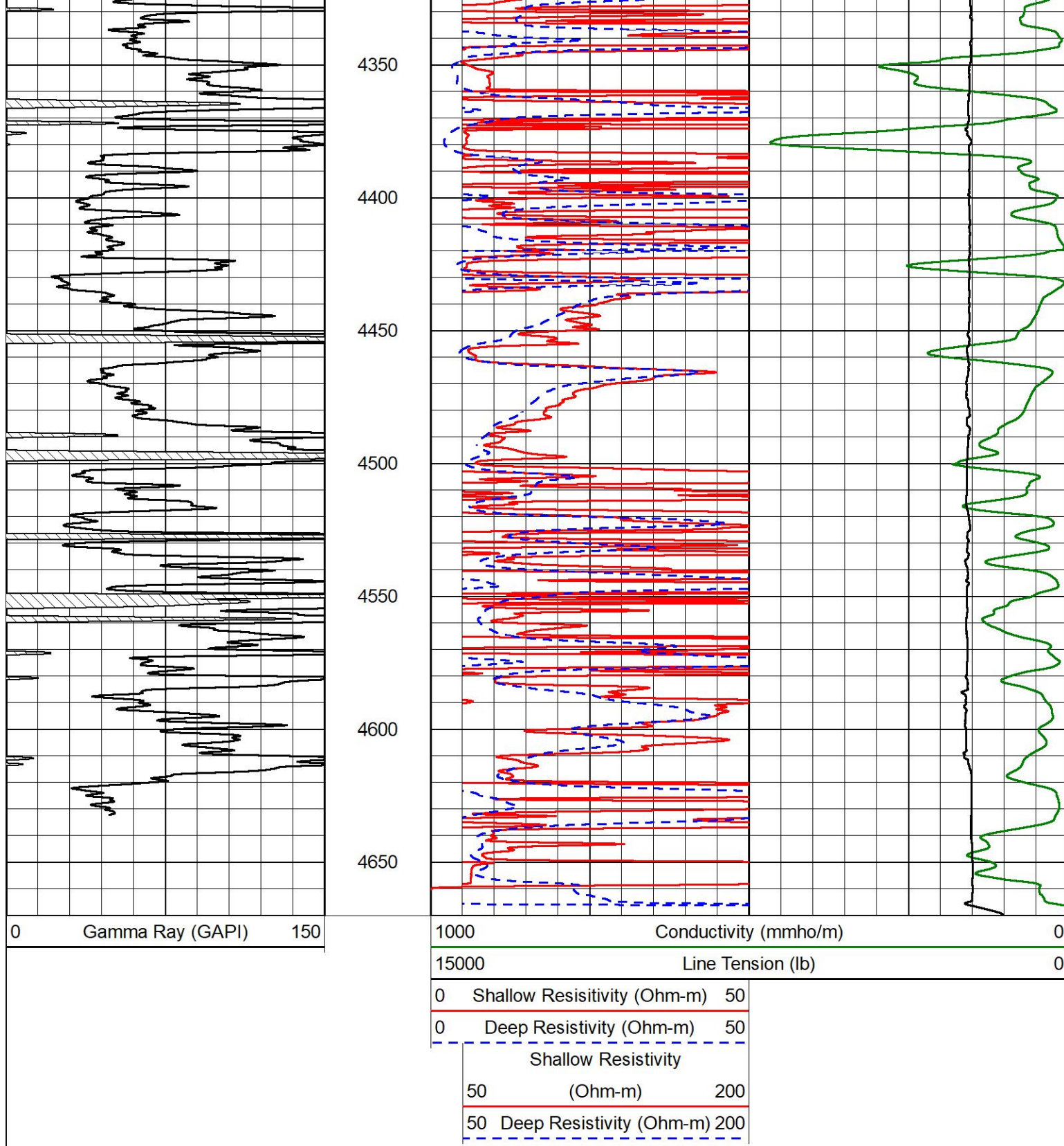












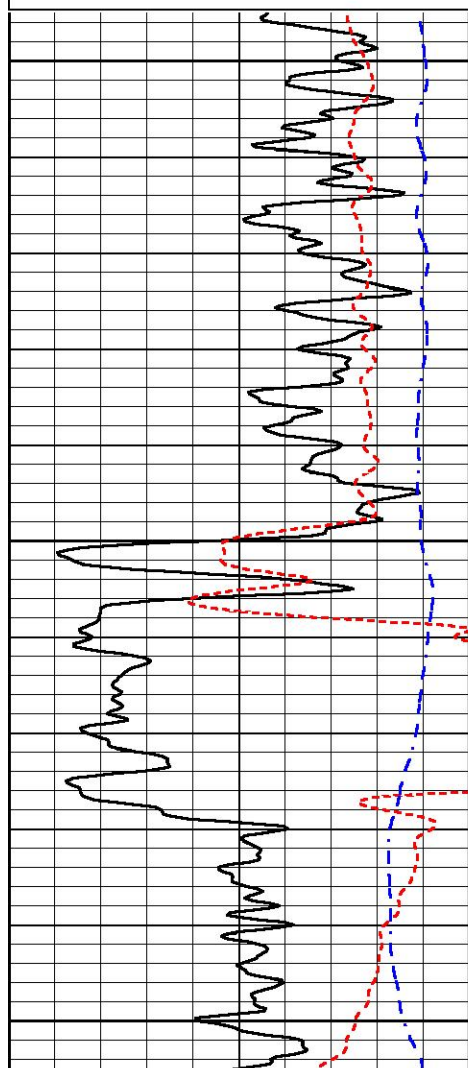
DETAIL SECTION

MAIN PASS

Database File blue_goose_borell_i_1.db
 Dataset Pathname stackml/pass3.1
 Presentation Format _dil
 Dataset Creation Tue Jan 18 16:02:25 2022
 Charted by Depth in Feet scaled 1:240

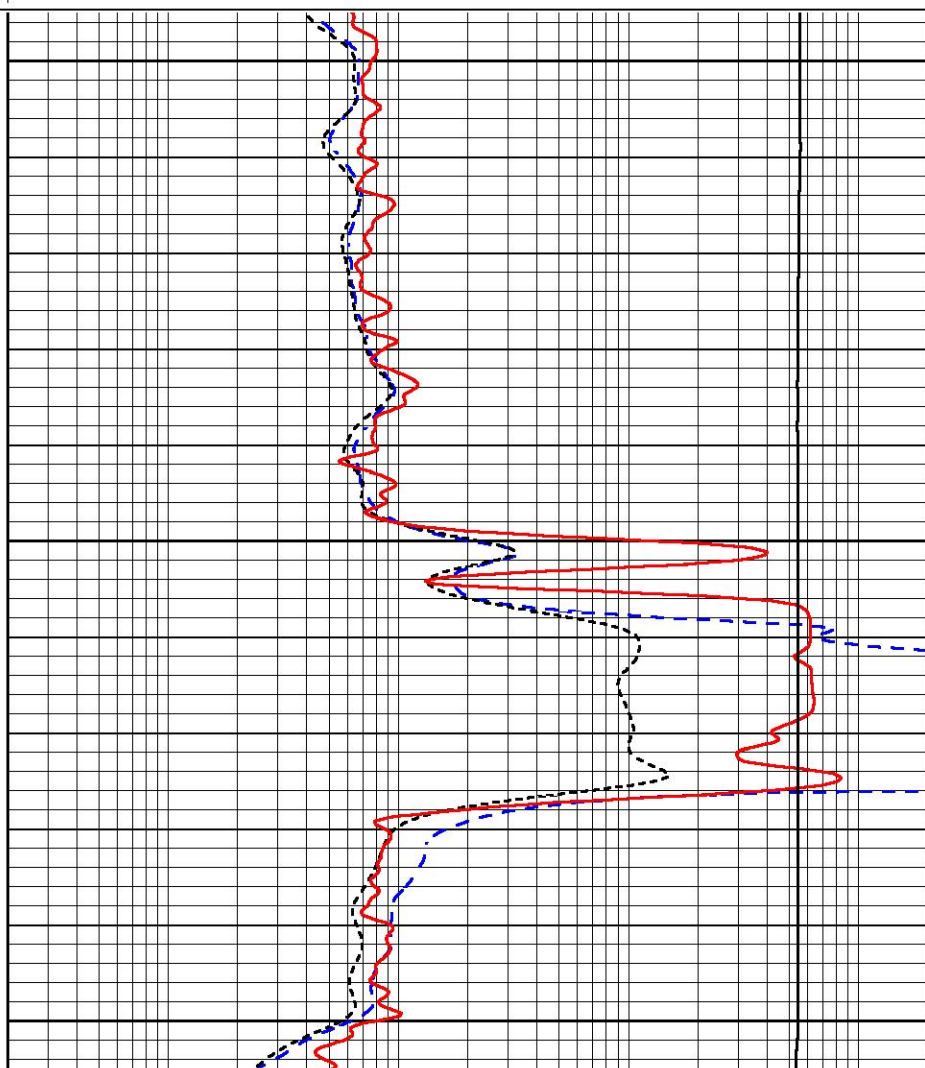
0 Gamma Ray (GAPI) 150 0.2 Deep Resistivity (Ohm-m) 2000

0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0



0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0



MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

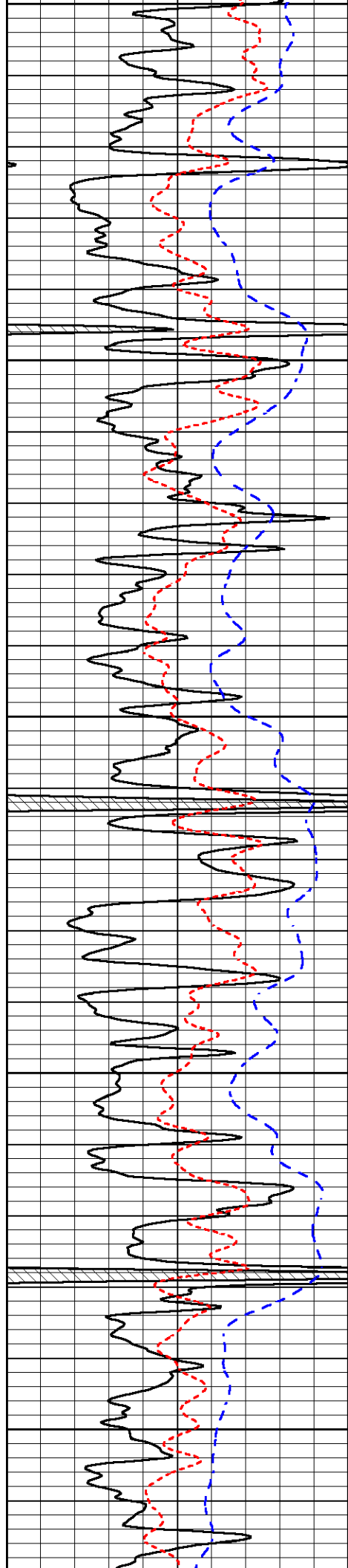
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Dataset Pathname stackml/pass3.1
Presentation Format _dil
Dataset Creation Tue Jan 18 16:02:25 2022
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0





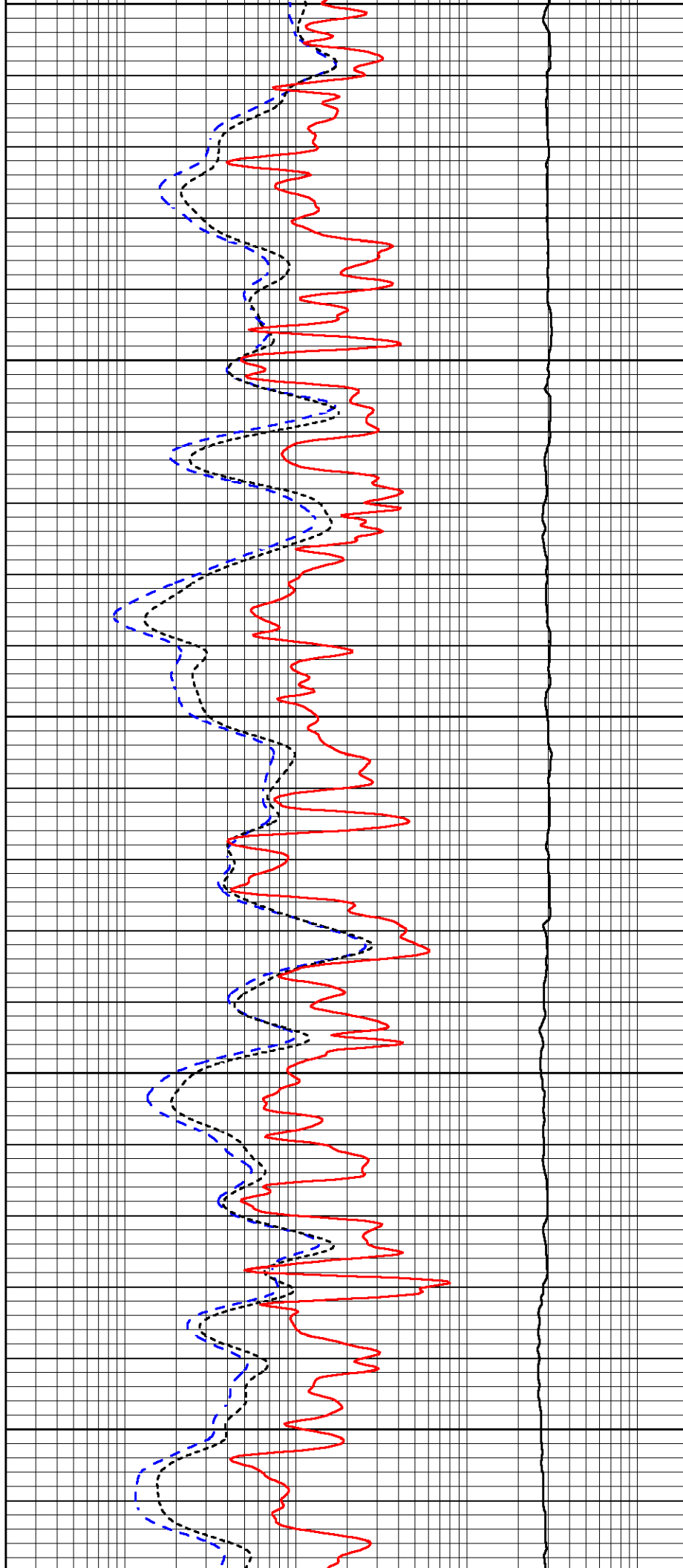
3700

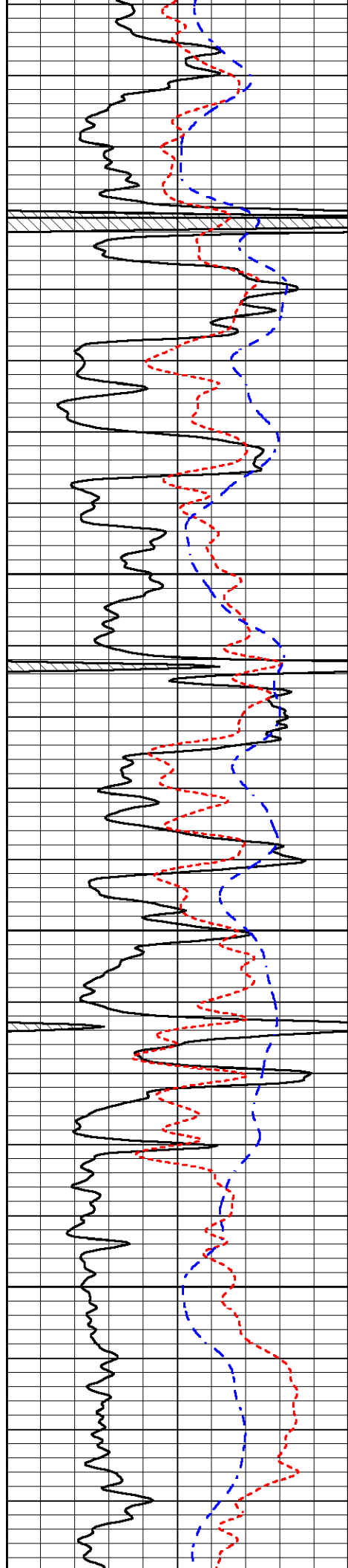
3750

3800

3850

3900



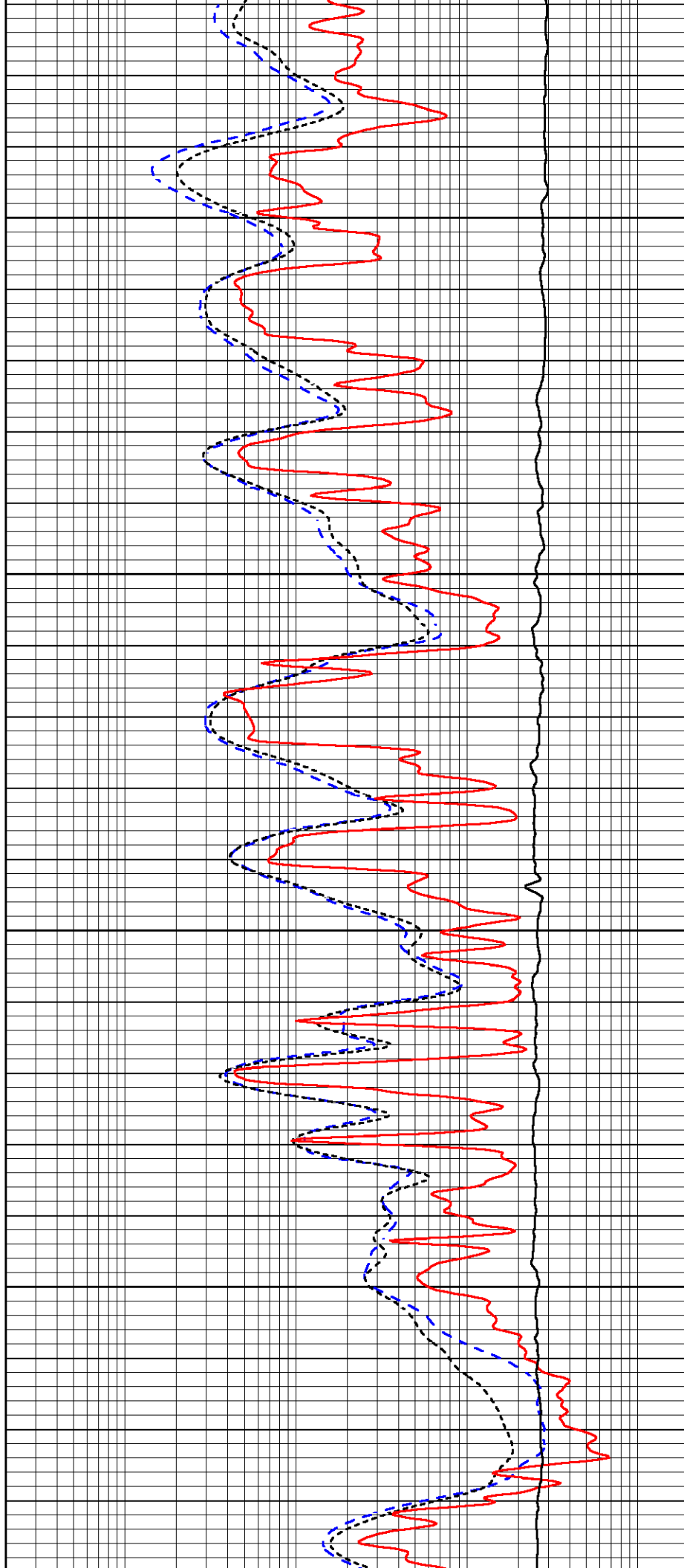


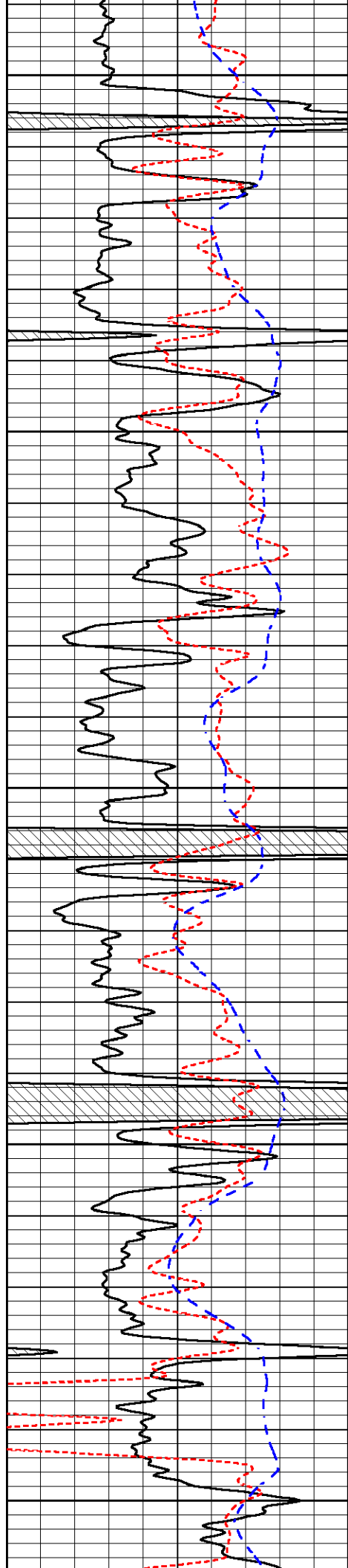
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4000

4050

4100





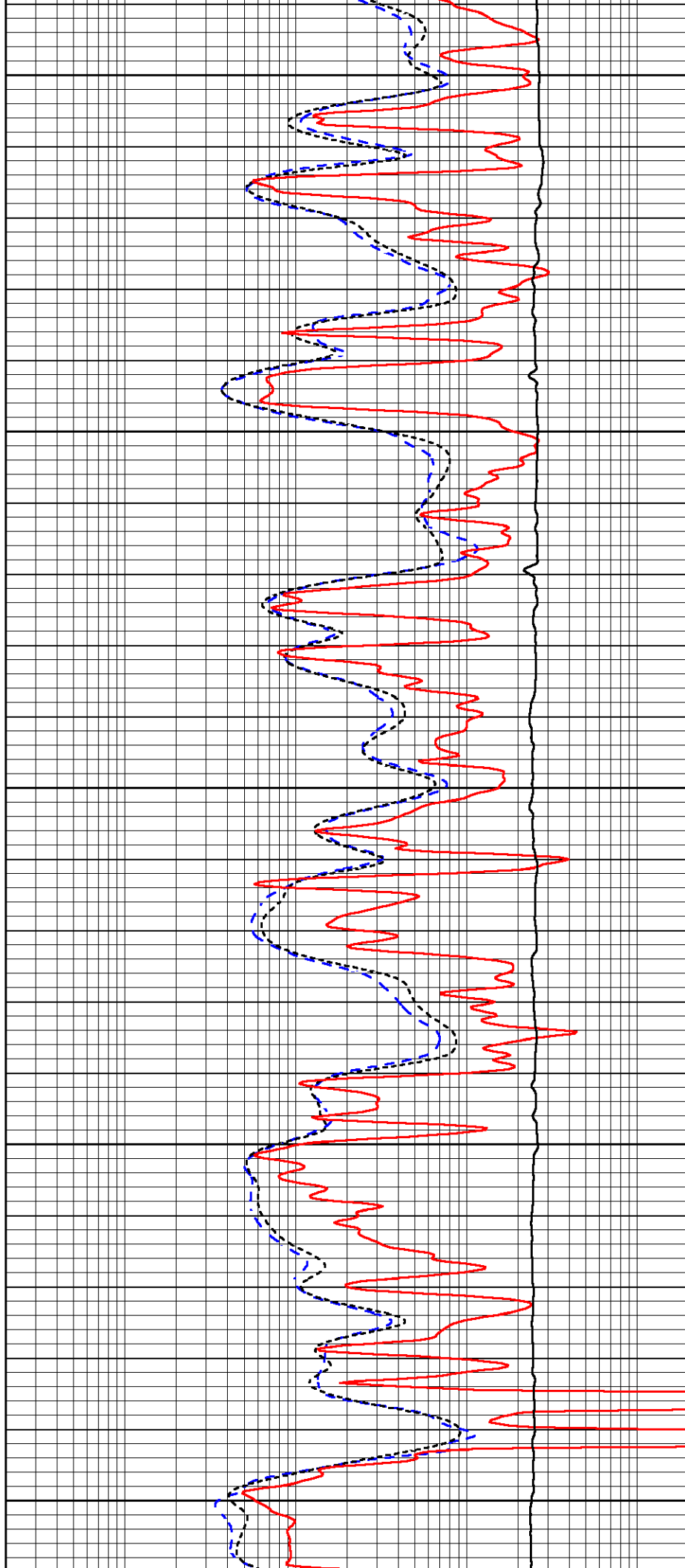
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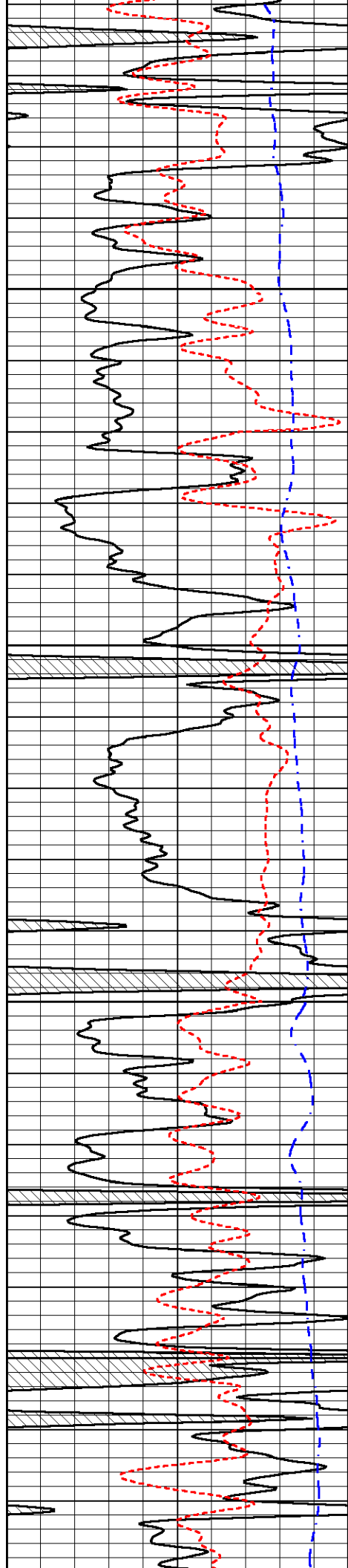
4200

4250

4300

4350



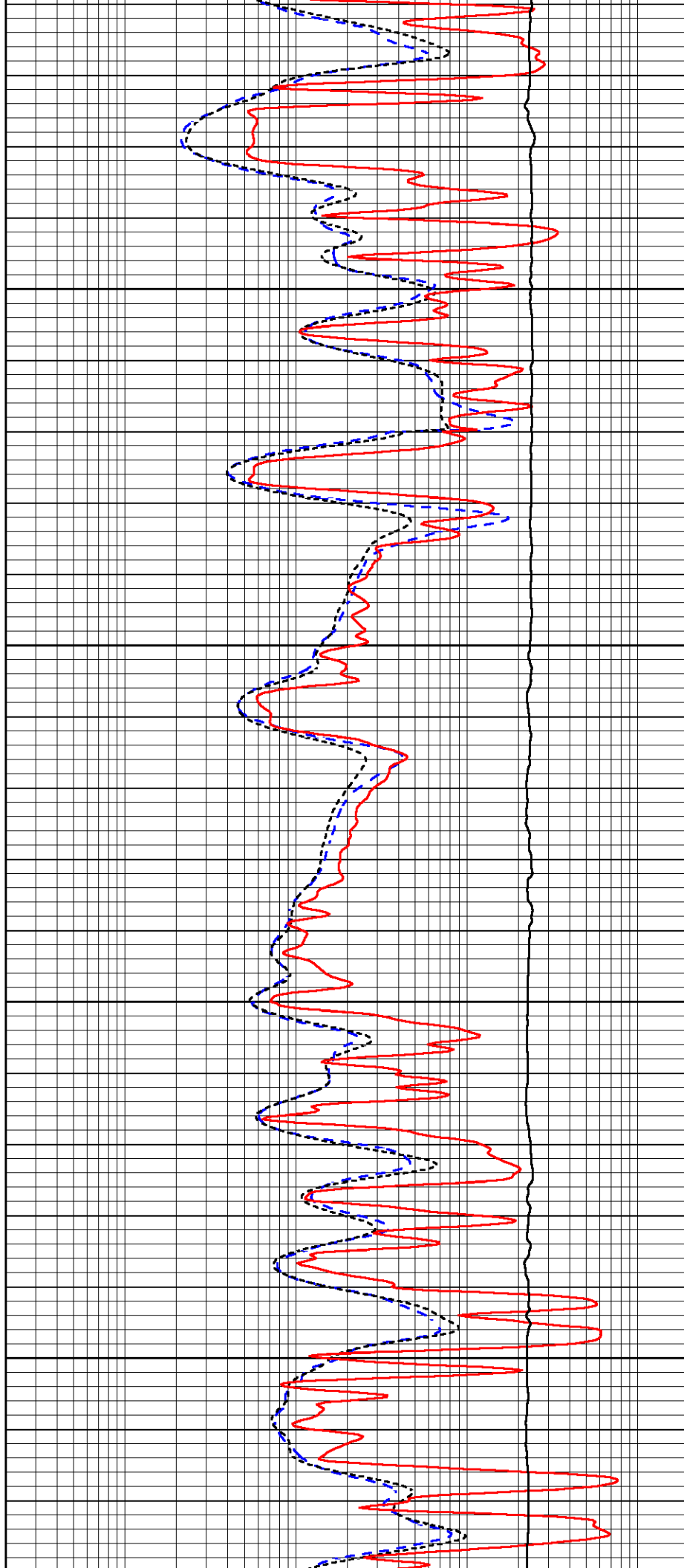


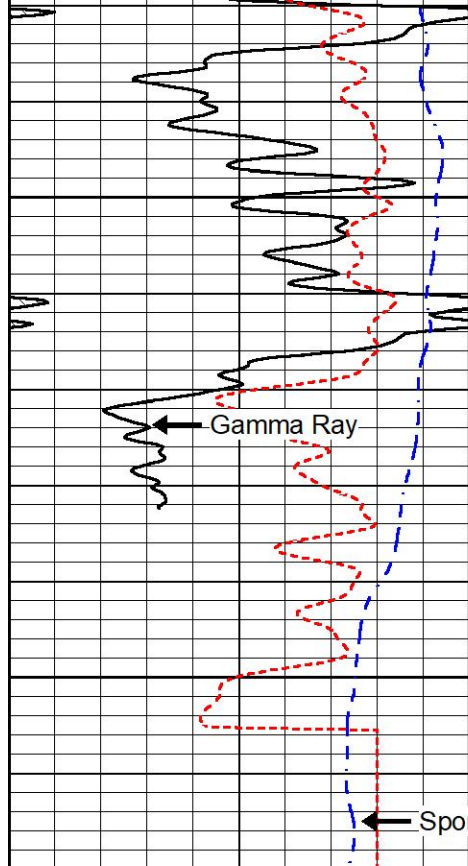
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4450

4500

4550





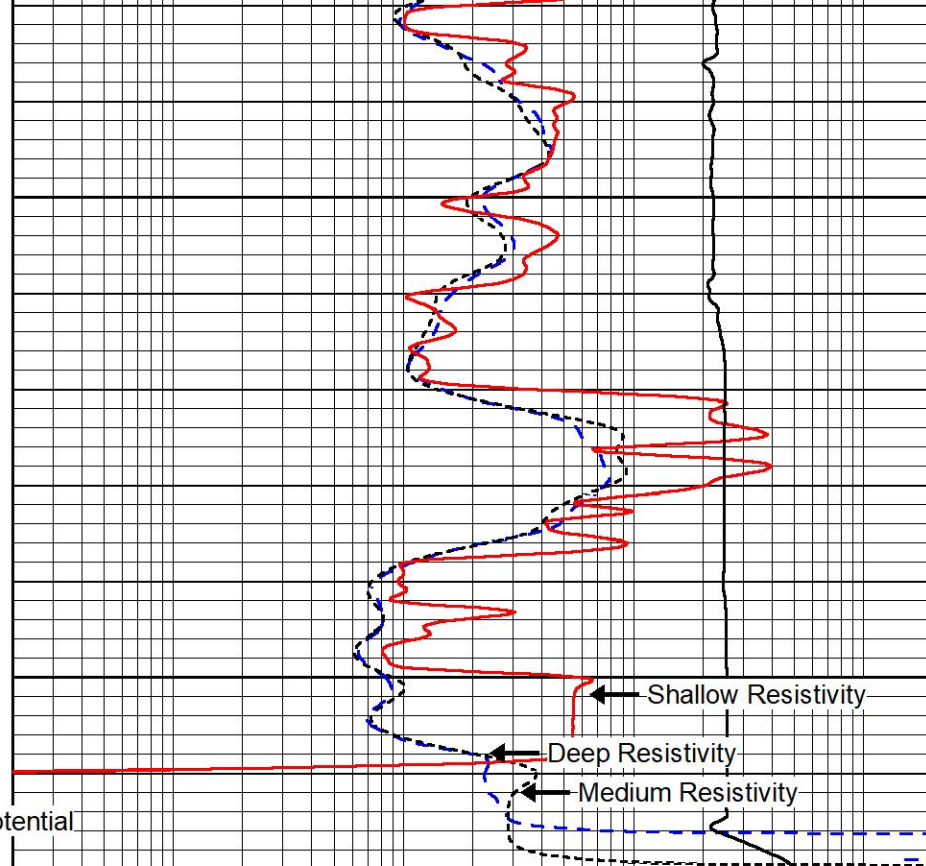
4600

4650

Gamma Ray

Spontaneous Potential

0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0



Shallow Resistivity

Deep Resistivity

Medium Resistivity

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0



MIDWEST WIRELINE

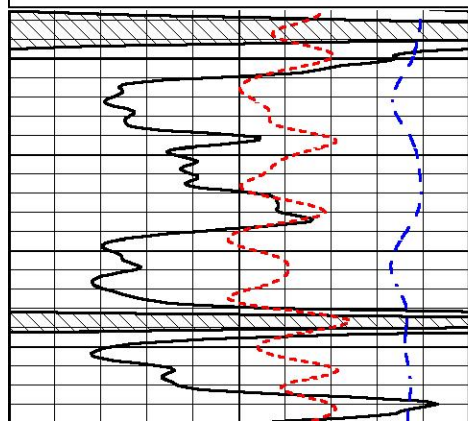
REPEAT SECTION

REPEAT PASS

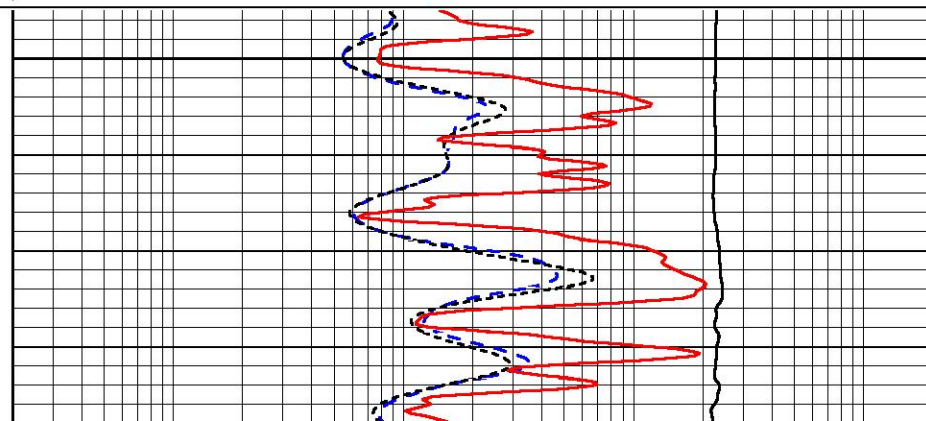
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 Dataset Pathname stackml/pass2.1
 Presentation Format _dil
 Dataset Creation Tue Jan 18 15:10:51 2022
 Charted by Depth in Feet scaled 1:240

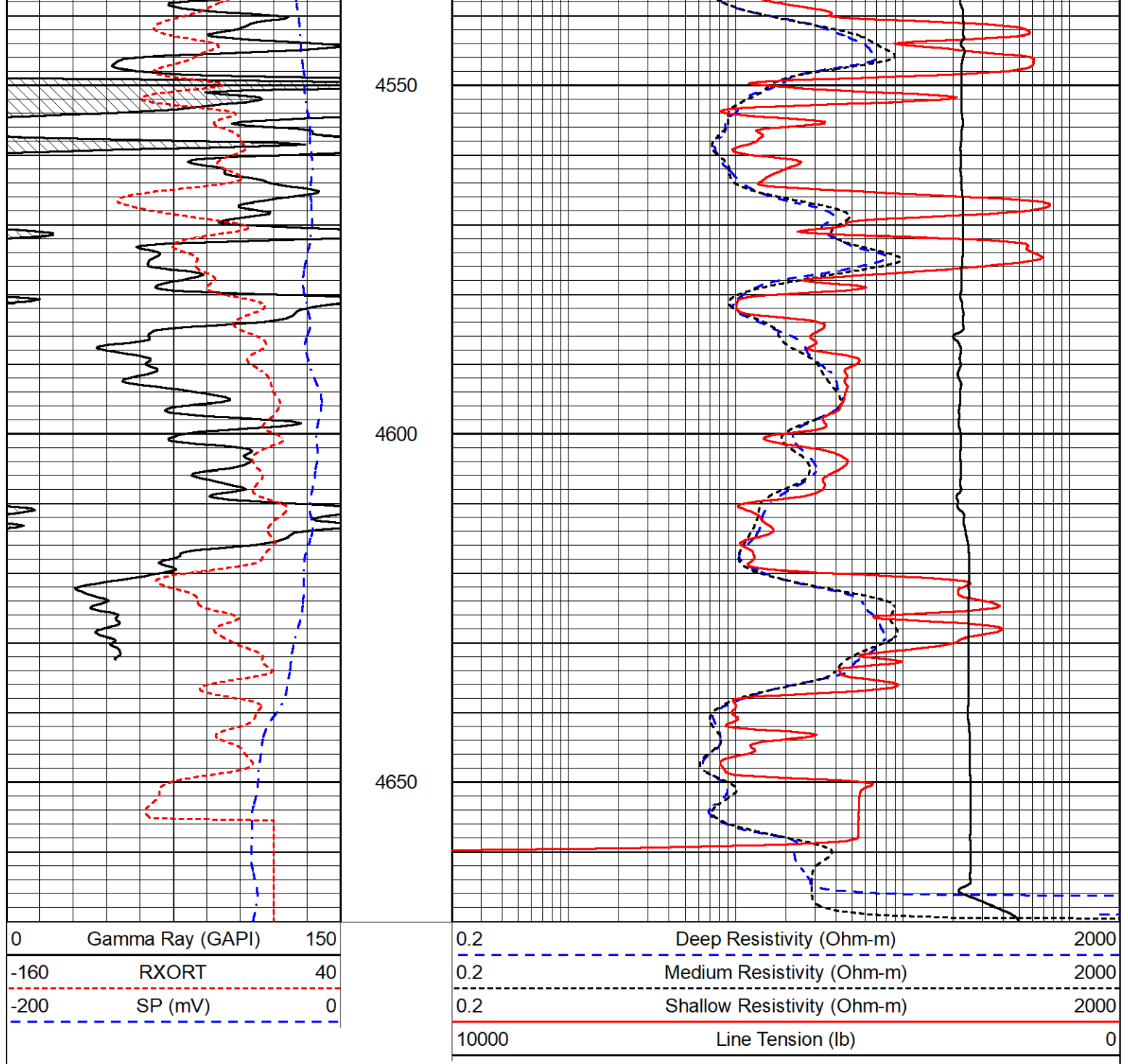
0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0



4500





Calibration Report							
Database File	blue_goose_borell_i_1.db						
Dataset Pathname	stackml/pass3.1						
Dataset Creation	Tue Jan 18 16:02:25 2022						
Dual Induction Calibration Report							
Serial-Model:				504 HT-M&W			
Surface Cal Performed:				Thu Dec 16 22:32:49 2021			
		Readings		References		Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-19.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-45.500

Microlog Calibration Report

Serial-Model:
Performed:402-PSI STKBL ML
Thu Dec 16 22:29:48 2021

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	15000.0000	-1.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	15000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1520	-131.2000

Compensated Density Calibration Report

Serial-Model:
Source #:303-03-M&W
21170B

Master Calibration Performed:

Thu Dec 16 23:28:34 2021

Master Calibration

	Density			Far Detector	Near Detector	
Magnesium	1.755	g/cc		3841.78	5151.73	cps
Aluminum	2.670	g/cc		700.98	3068.49	cps
Spine Angle = 73.06			Density/Spine Ratio = 0.515			
	Size			Reading		
Small Ring	4.00	in		1.17		
Large Ring	14.00	in		1.05		

Compensated Neutron Calibration Report

Serial-Model:
Source #:210-M&W
N-1238

Master Calibration Performed:

Fri Dec 3 09:16:24 2021

Master Calibration

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:

103

Tool Model:

M&W

Performed:

Fri Dec 3 12:13:24 2021

Calibrator Value:

500.0

GAPI

Background Reading:

28.0

cps

Calibrator Reading:

986.0

cps

Sensitivity:

0.5700

GAPI/cps



Company

Blue Goose Drilling Co. Inc.

Well

Borell "I" #1



Field	LS East
County	Lane
State	Kansas