

DUAL INDUCTION LOG

Company I A OPERATING, INC.

Well CLOCK #3-1

Field CONKLING

County PAWNEE State KANSAS

Location: API #: 15-145-21870-0000

1455' FSL & 383' FWL
SW - NW - SW

SEC 3 TWP 20S RGE 18W

Permanent Datum GROUND LEVEL Elevation 2180
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL/PE
MEL/SONIC

Elevation

K.B. 2188
D.F. 2186
G.L. 2180

Date 5/29/22

Run Number ONE

Depth Driller 4109

Depth Logger 4110

Bottom Logged Interval 4108

Top Log Interval 00

Casing Driller 8 5/8"@1283'

Casing Logger 1283

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.2/55

pH / Fluid Loss 10.5/6.4

Source of Sample FLOWLINE

Rm @ Meas. Temp .510@80F

Rmf @ Meas. Temp .383@80F

Rmc @ Meas. Temp .612@80F

Source of Rmf / Rmc MEASURED

Rm @ BHT .349@117F

Time Circulation Stopped 2.5 HOURS

Time Logger on Bottom 4:00 A.M.

Maximum Recorded Temperature 117F

Equipment Number 8916

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By JEFF LAWLER

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

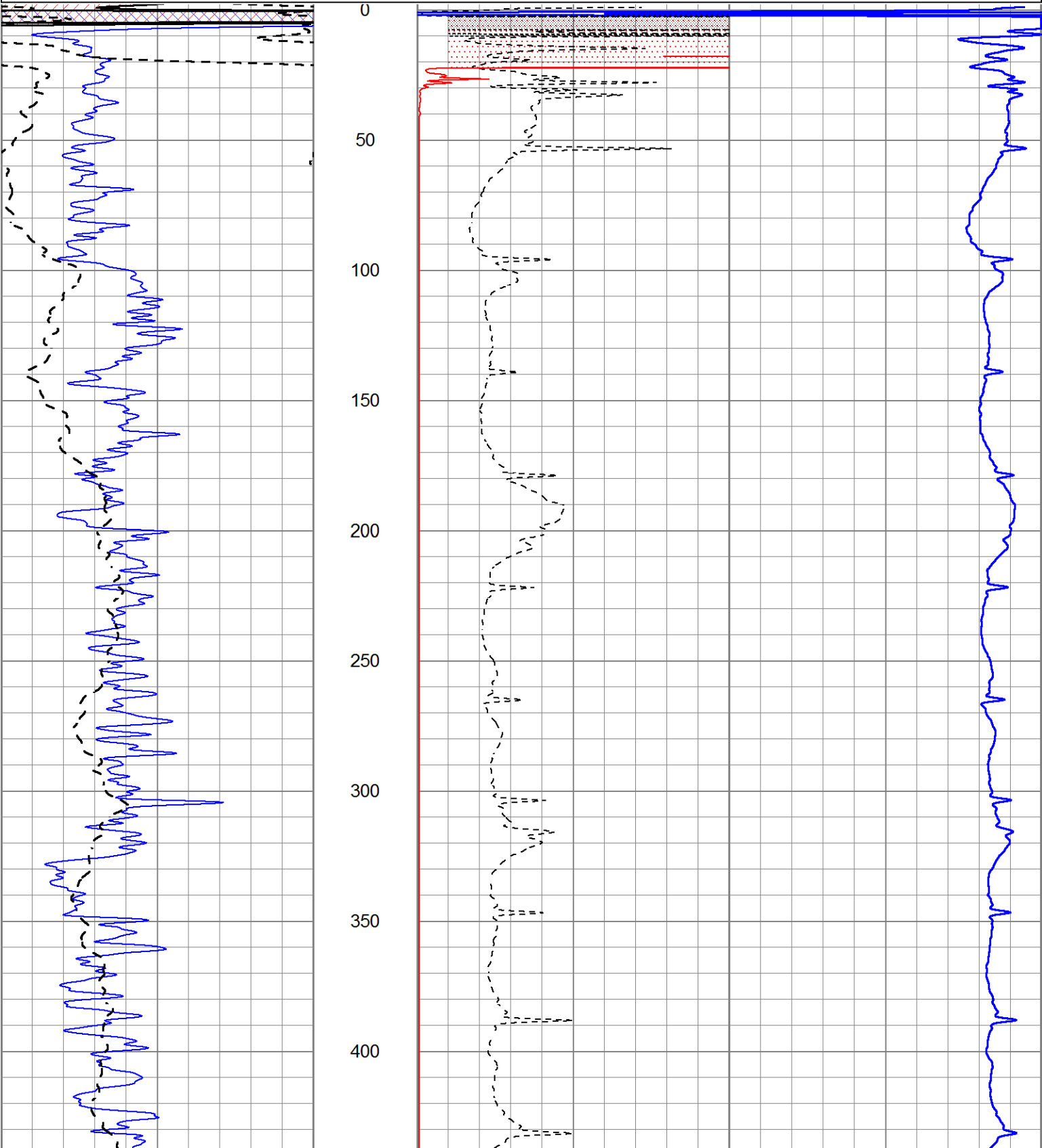
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395
DIRECTIONS:
RUSH CENTER, KS. (4 WAY STOP) 8 1/2S. ON HWY 183, E. INTO

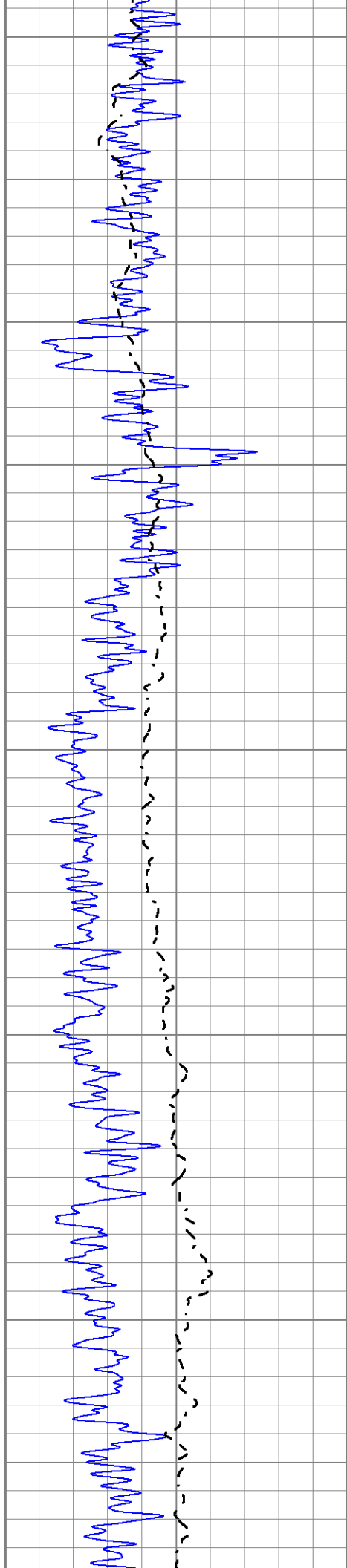


MAIN SECTION

Database File	6559pe.db
Dataset Pathname	pass3.1M
Presentation Format	dil2
Dataset Creation	Sun May 29 05:33:16 2022
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
			0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500





450

500

550

600

650

700

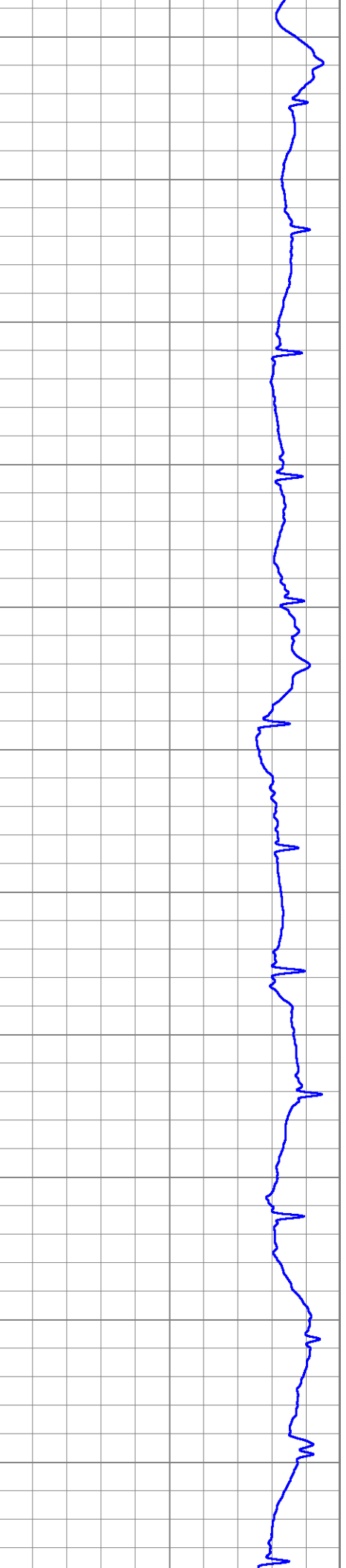
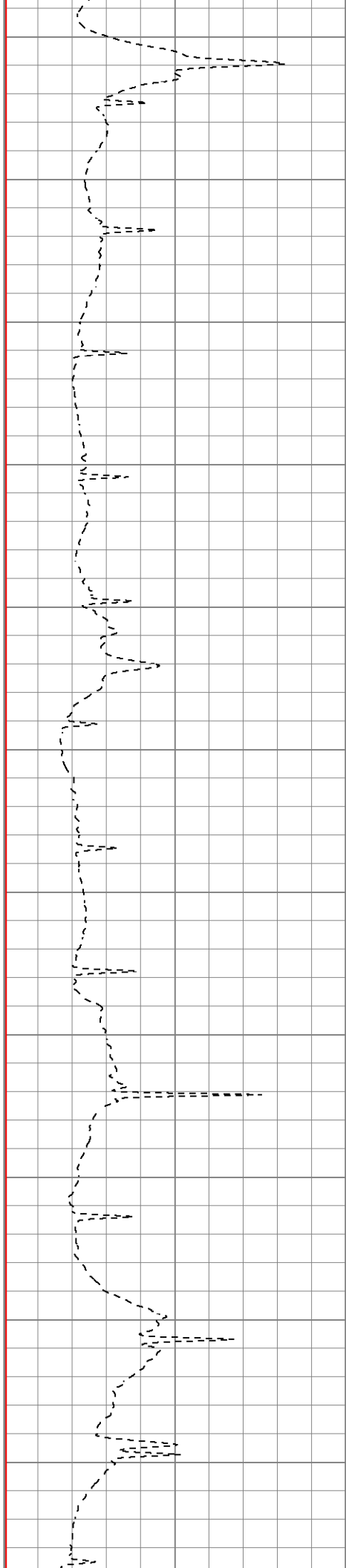
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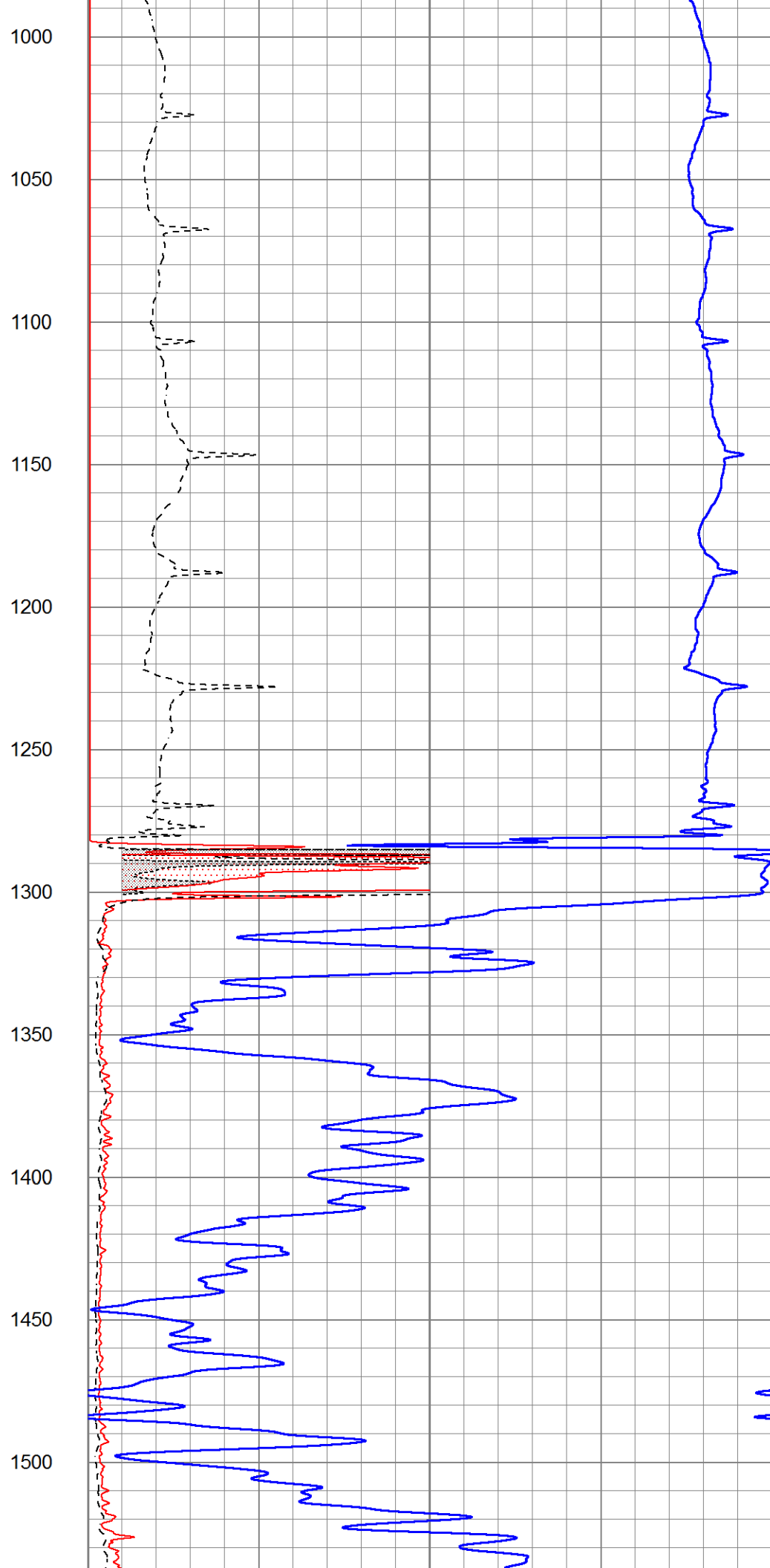
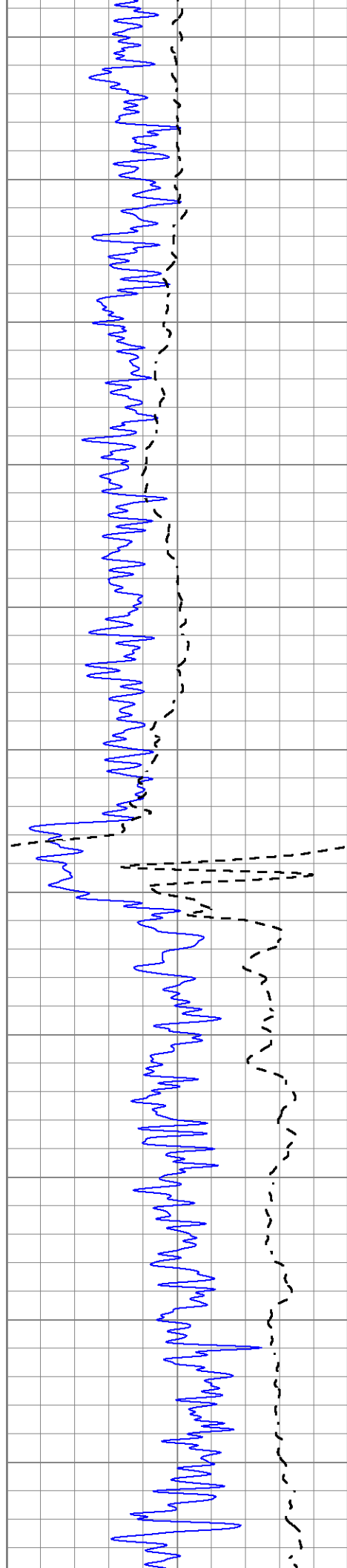
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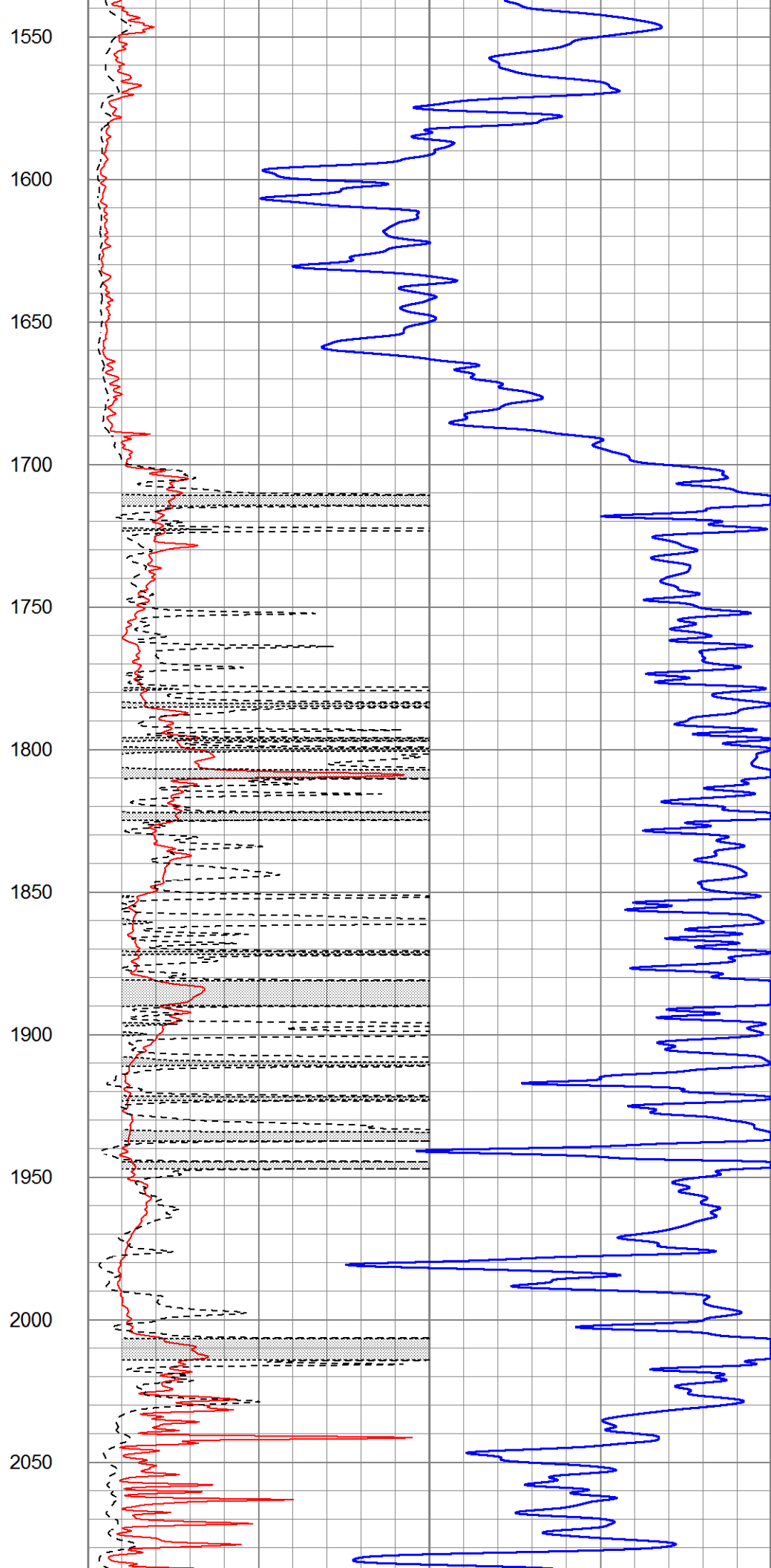
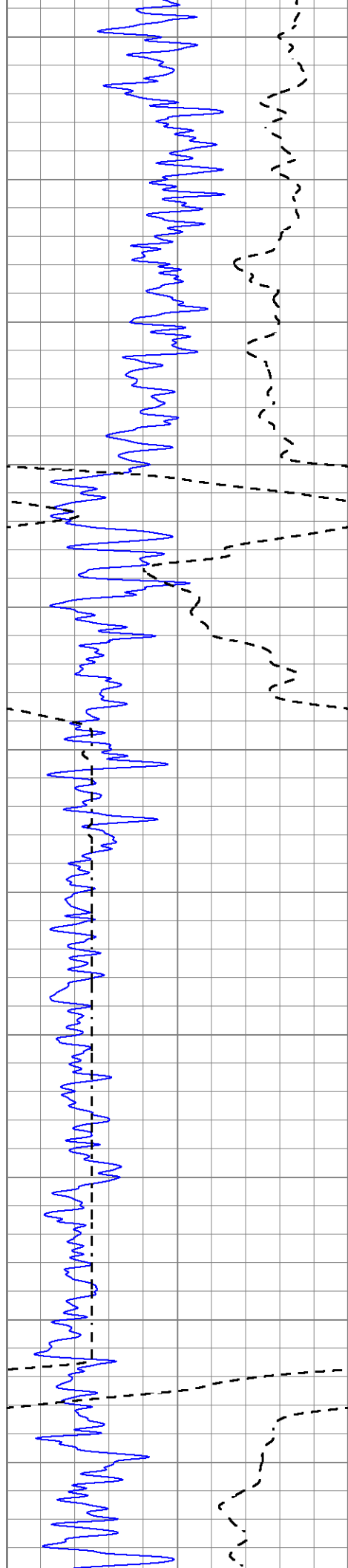
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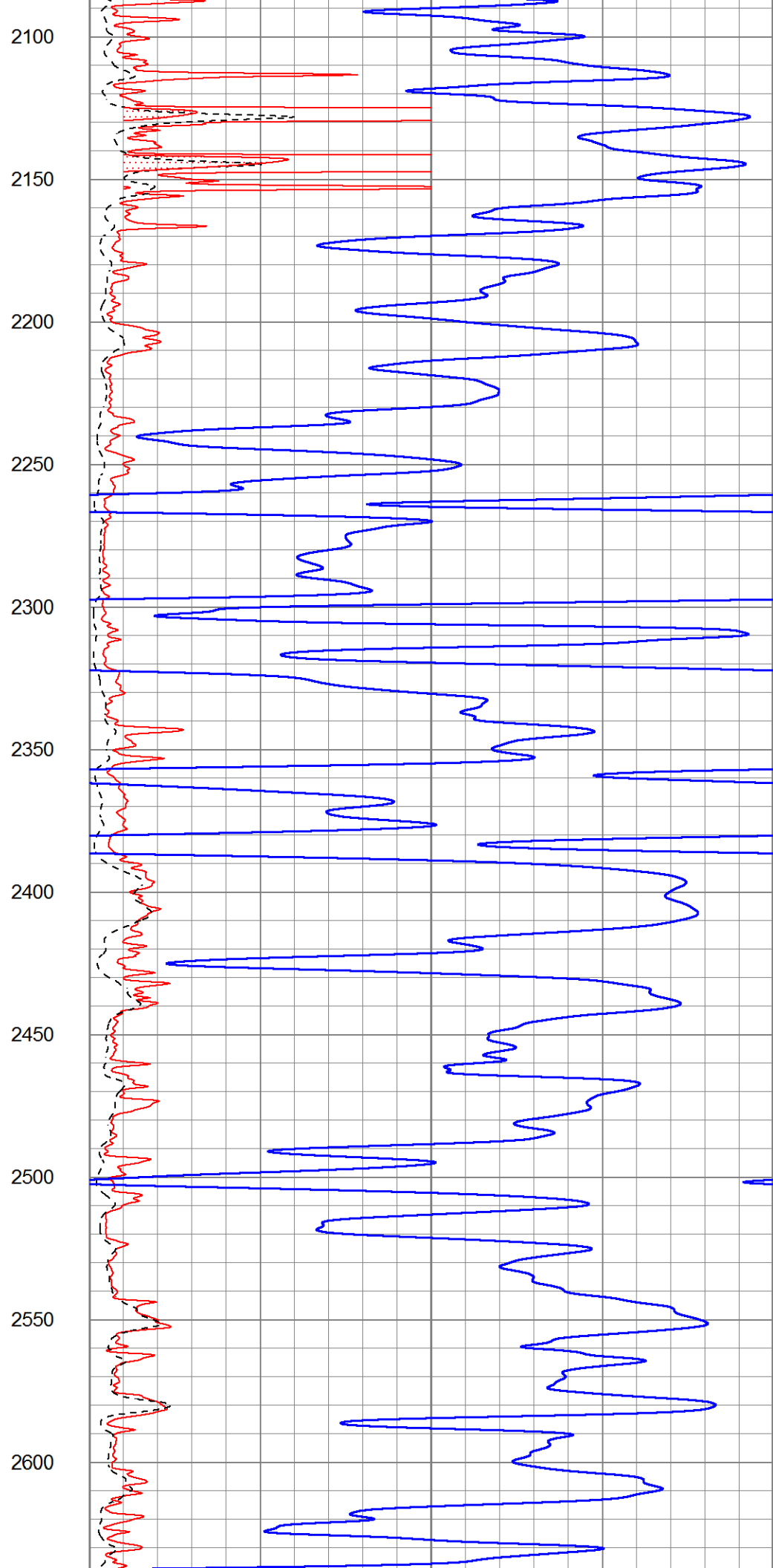
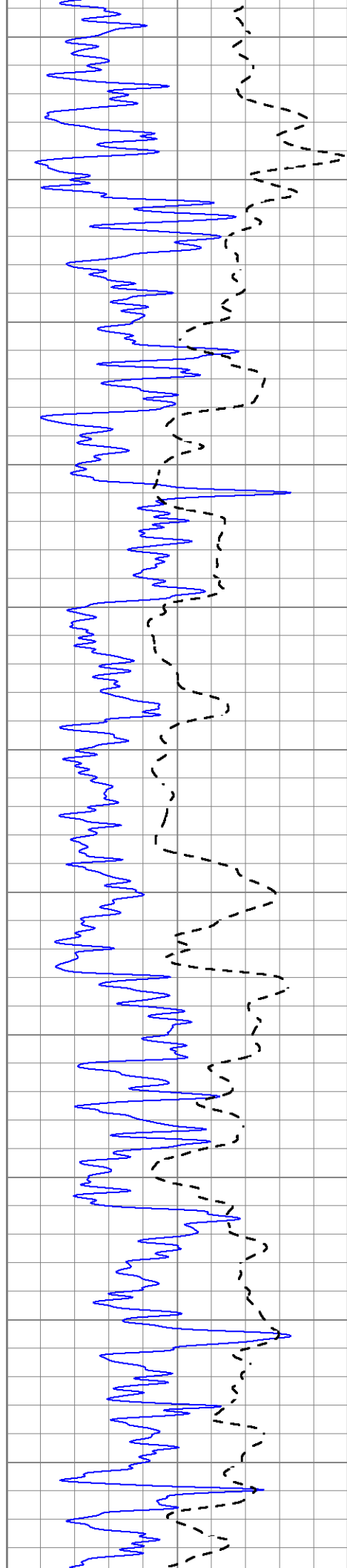
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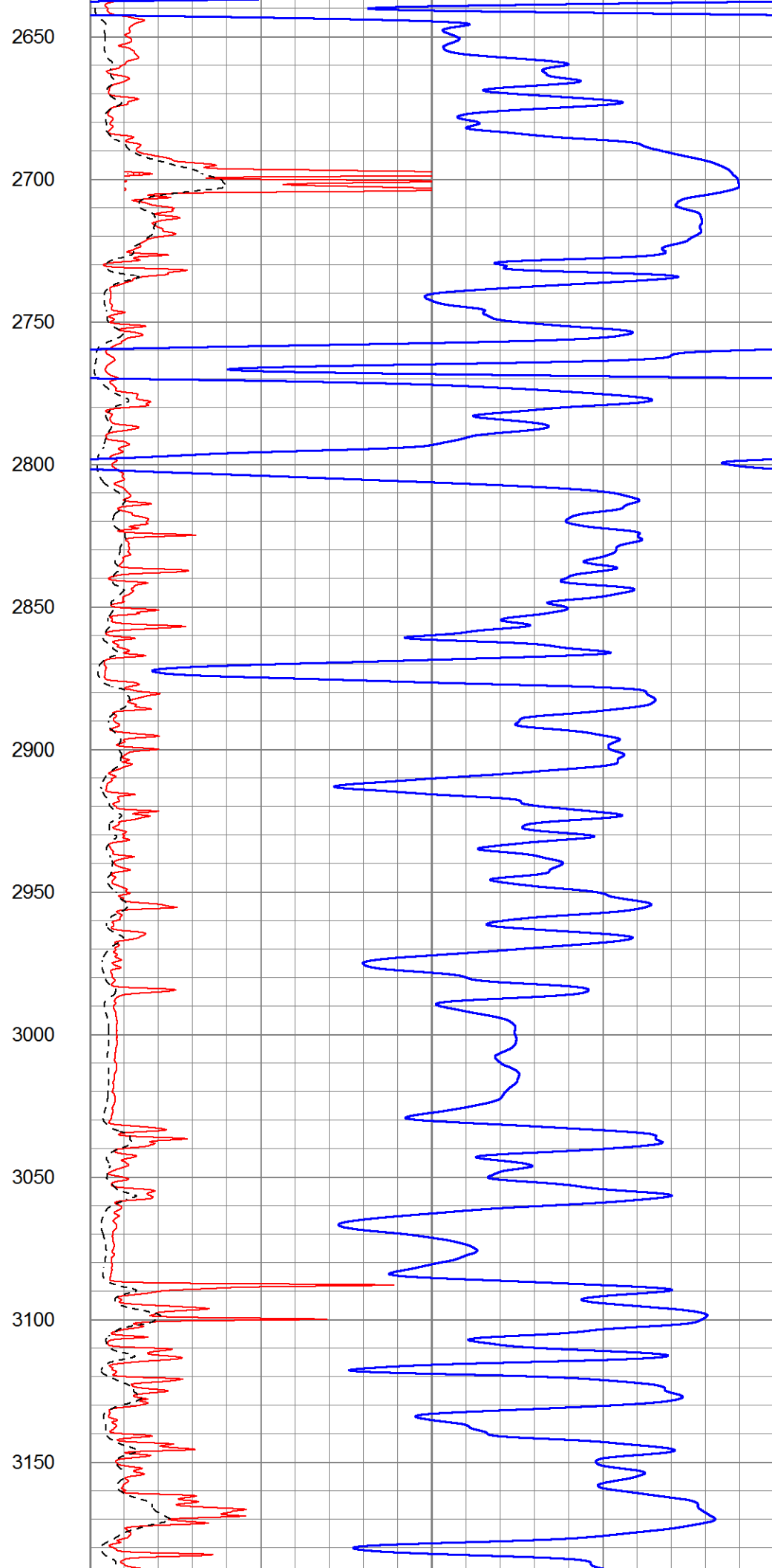
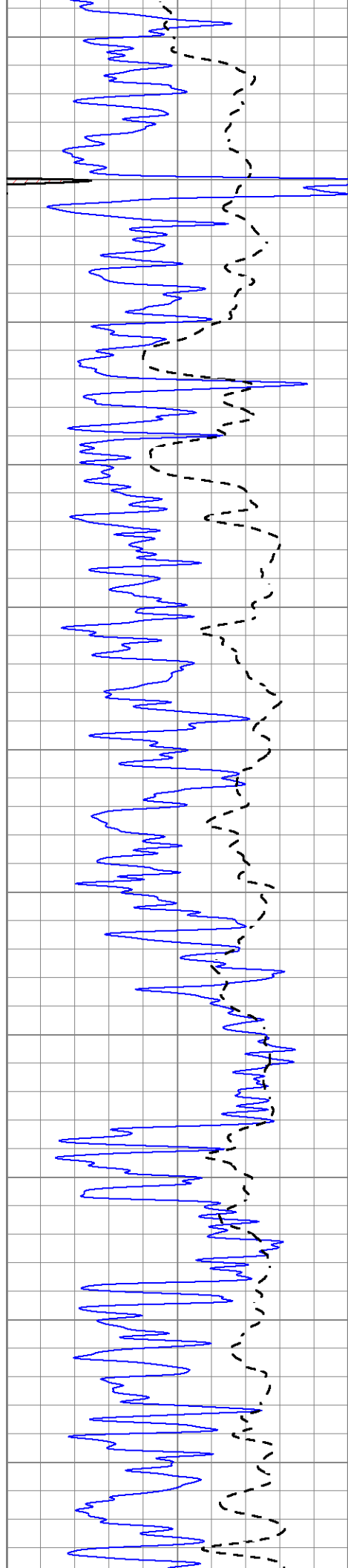
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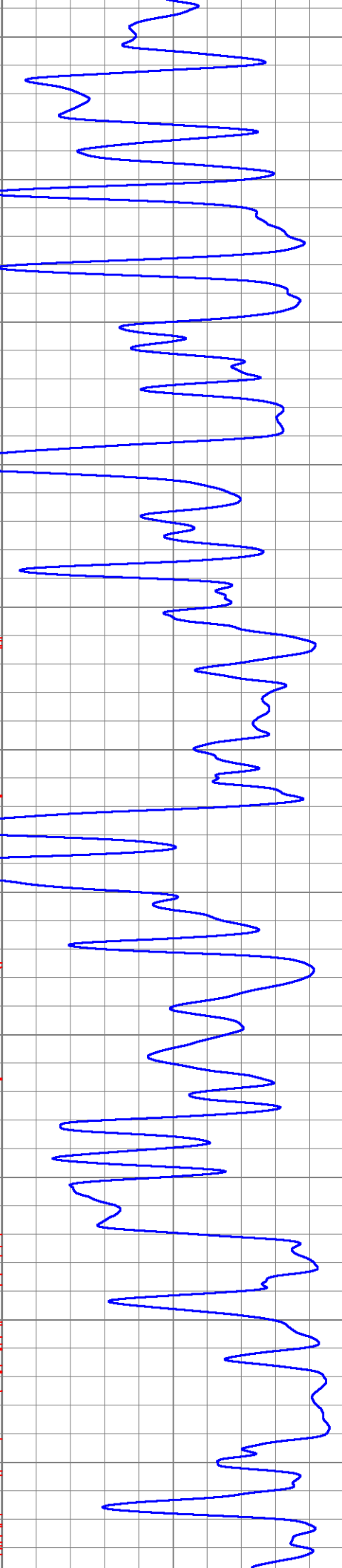
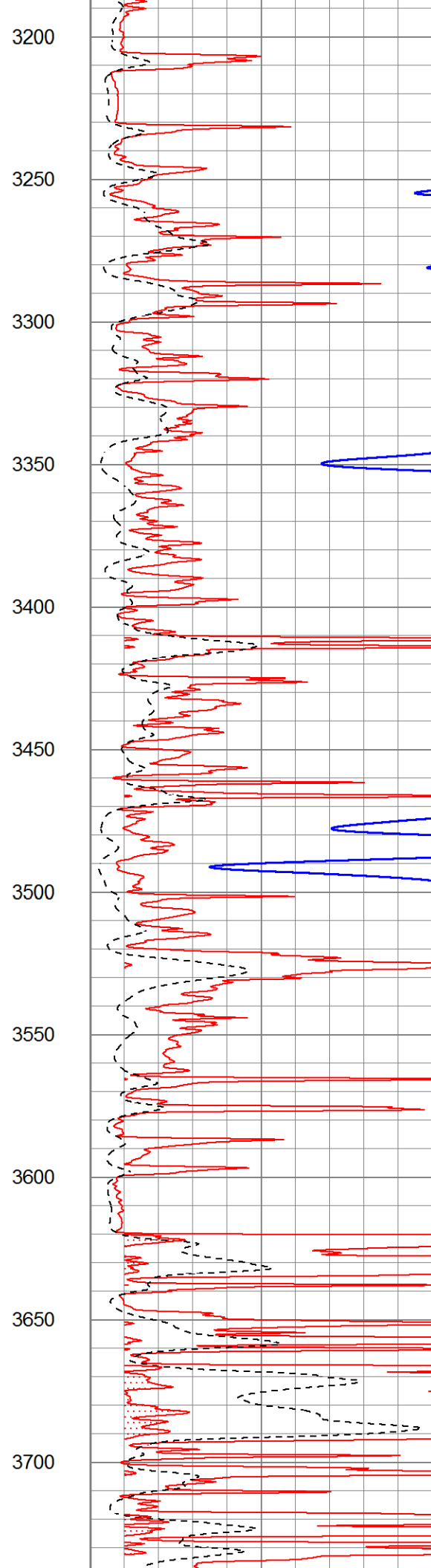
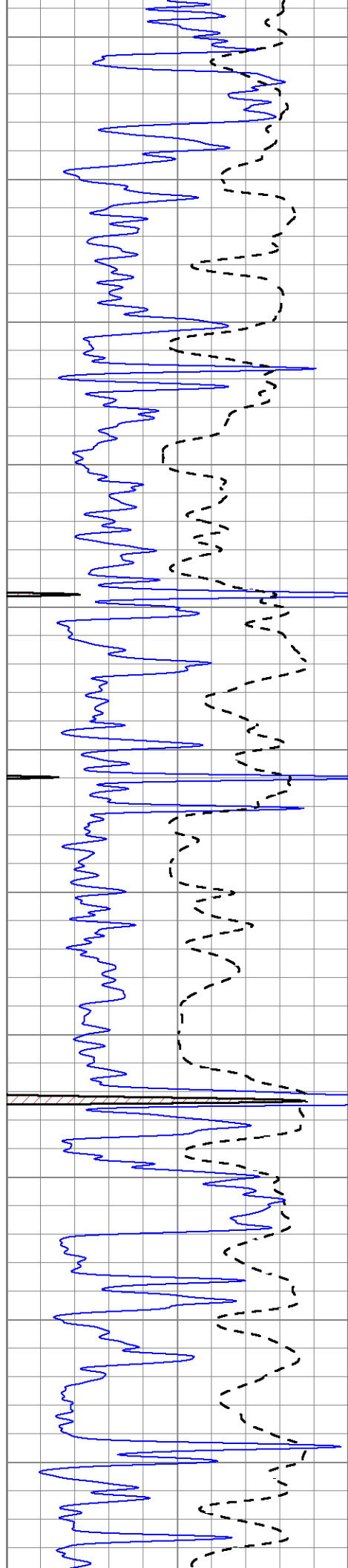


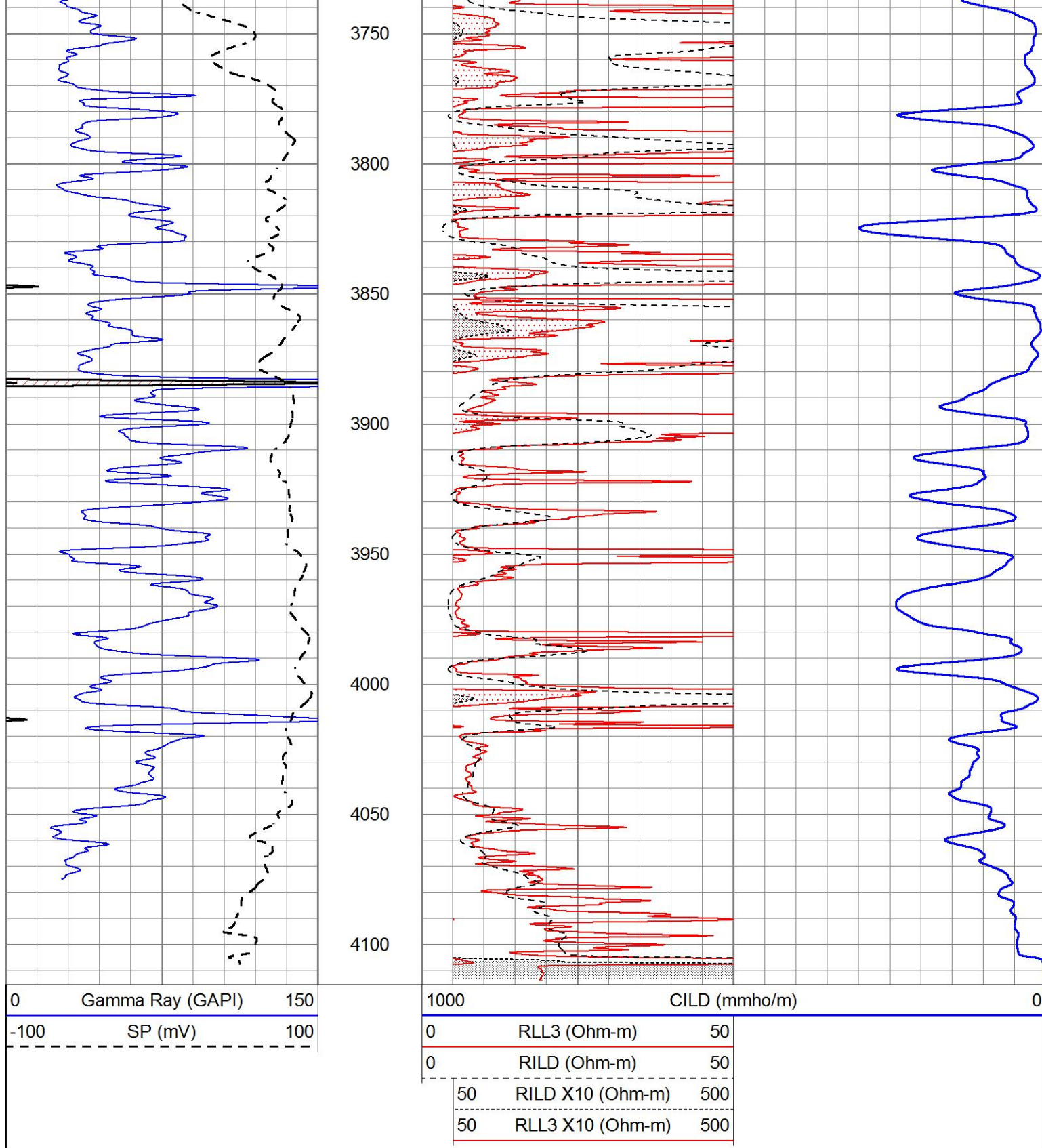








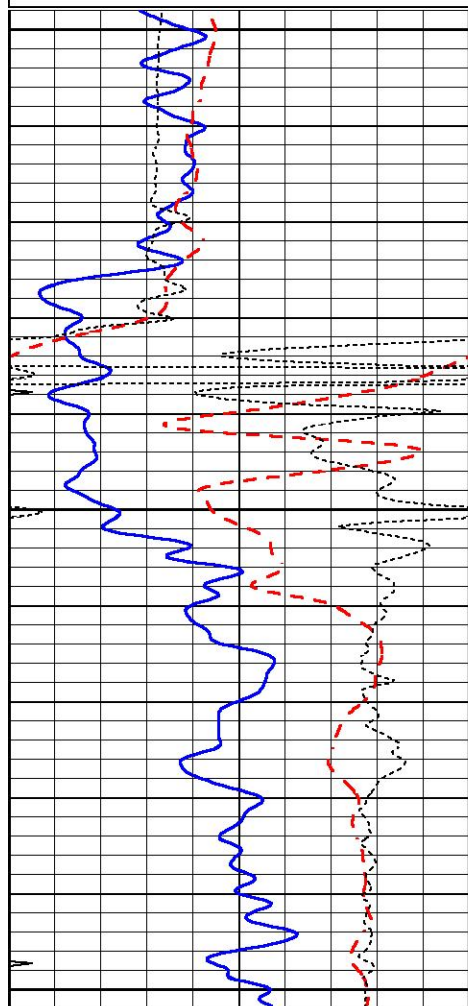




ANHYDRITE

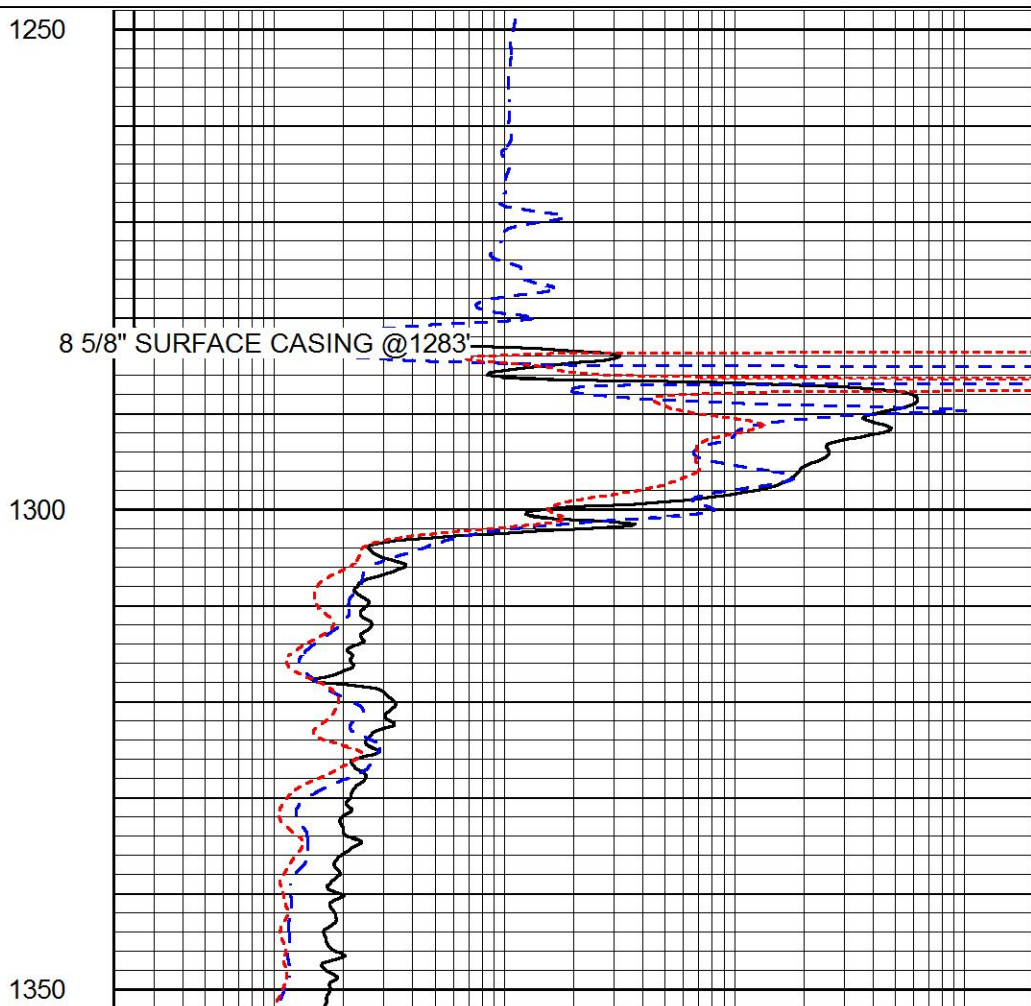
Database File 6559pe.db
 Dataset Pathname pass3.1A
 Presentation Format _dil
 Dataset Creation Sun May 29 05:33:25 2022
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



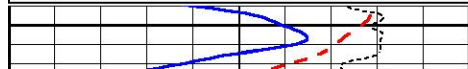
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



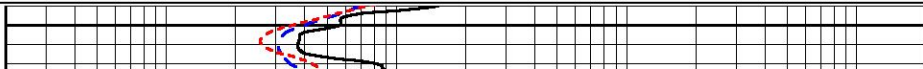
MAIN SECTION

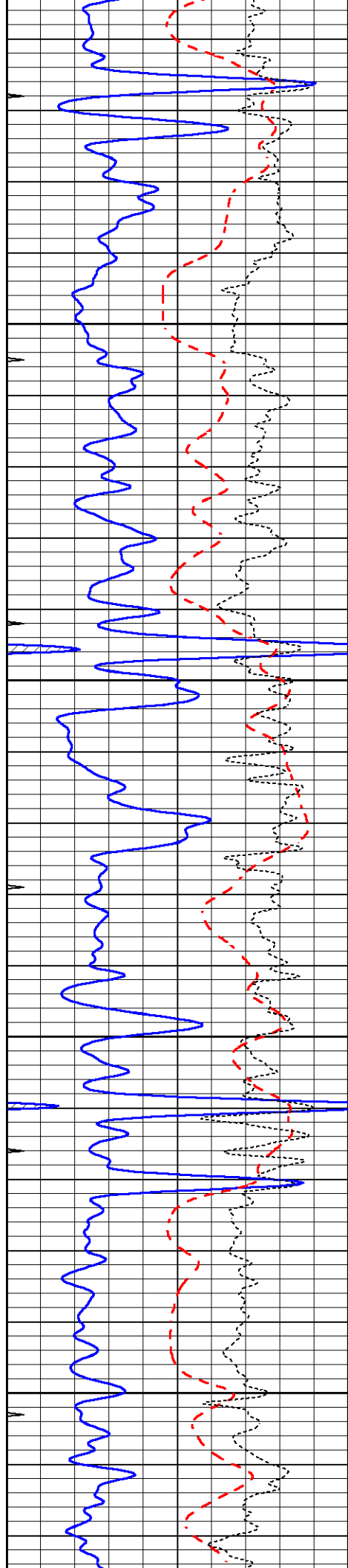
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 Dataset Pathname pass3.1M
 Presentation Format _dil
 Dataset Creation Sun May 29 05:33:16 2022
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



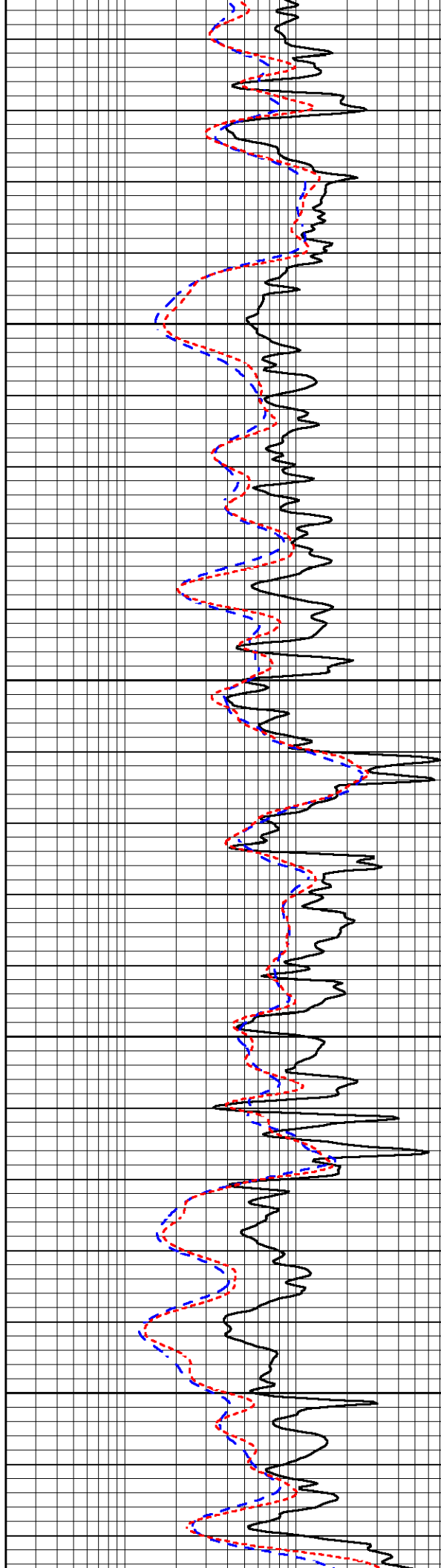


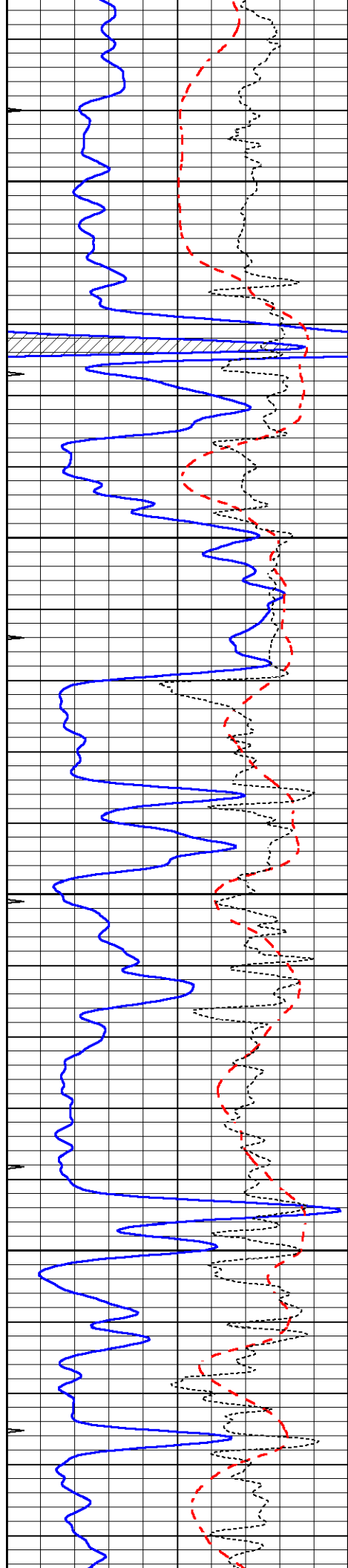
3350

3400

3450

3500



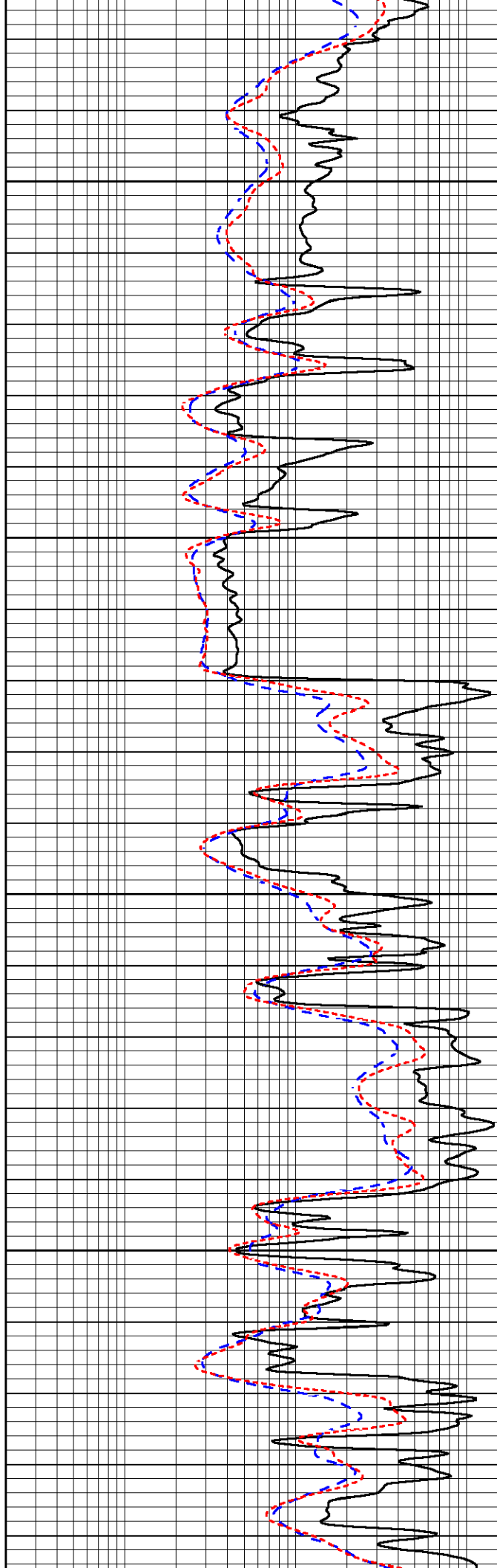


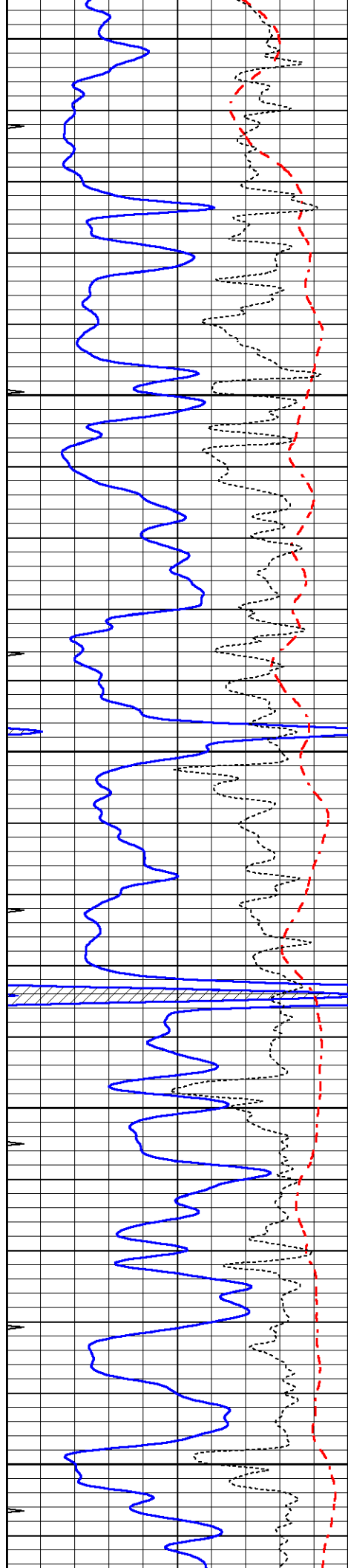
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3600

3650

3700





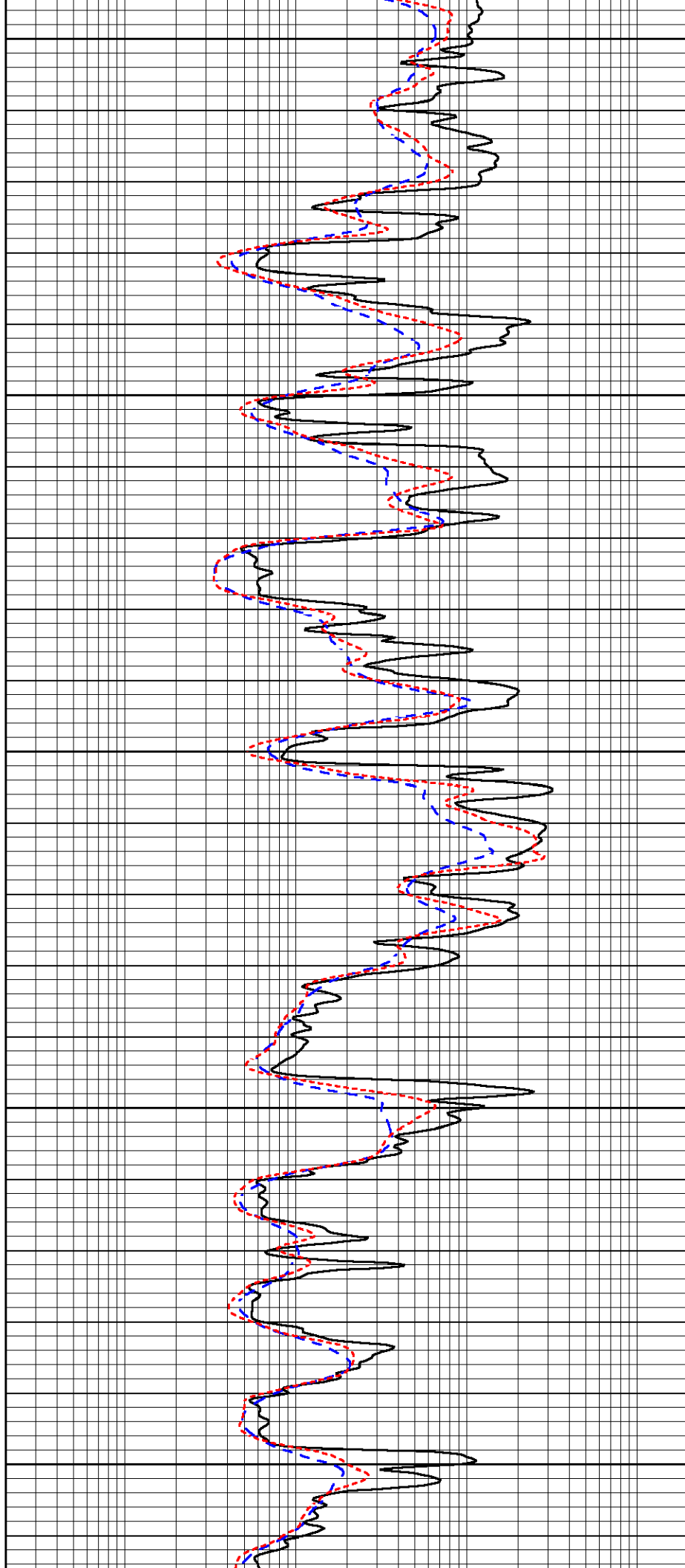
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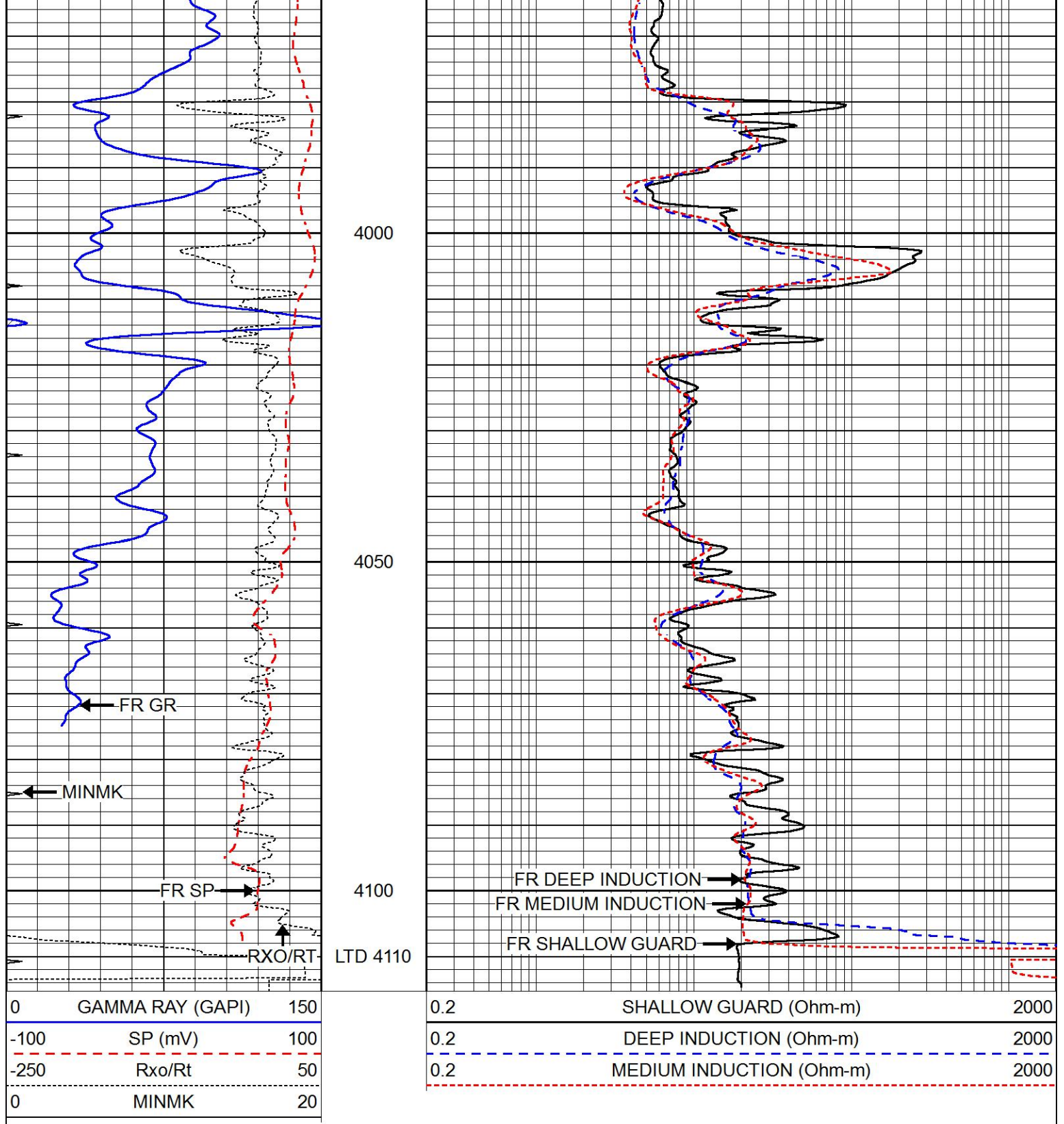
3800

3850

3900

3950



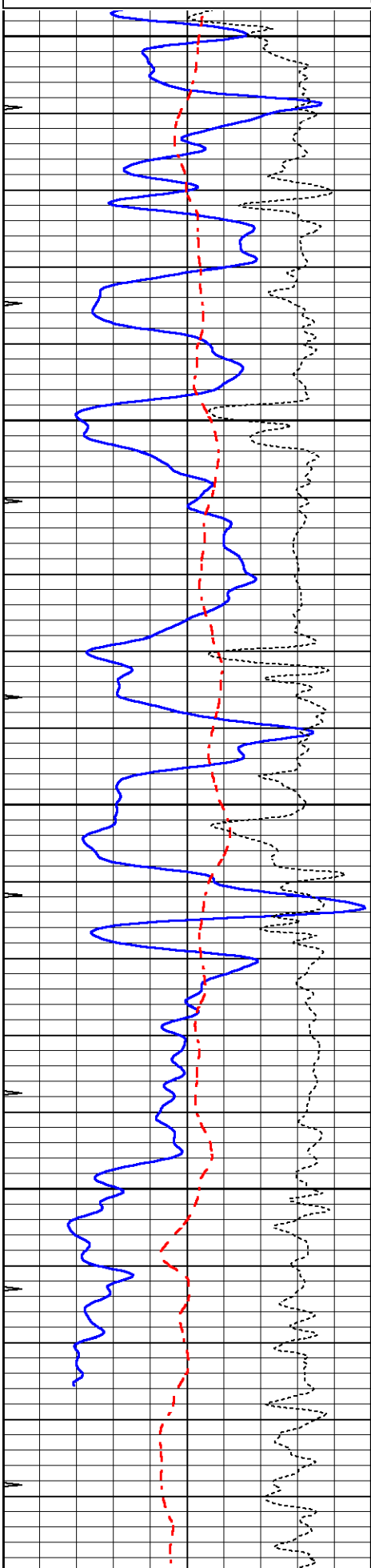


REPEAT SECTION

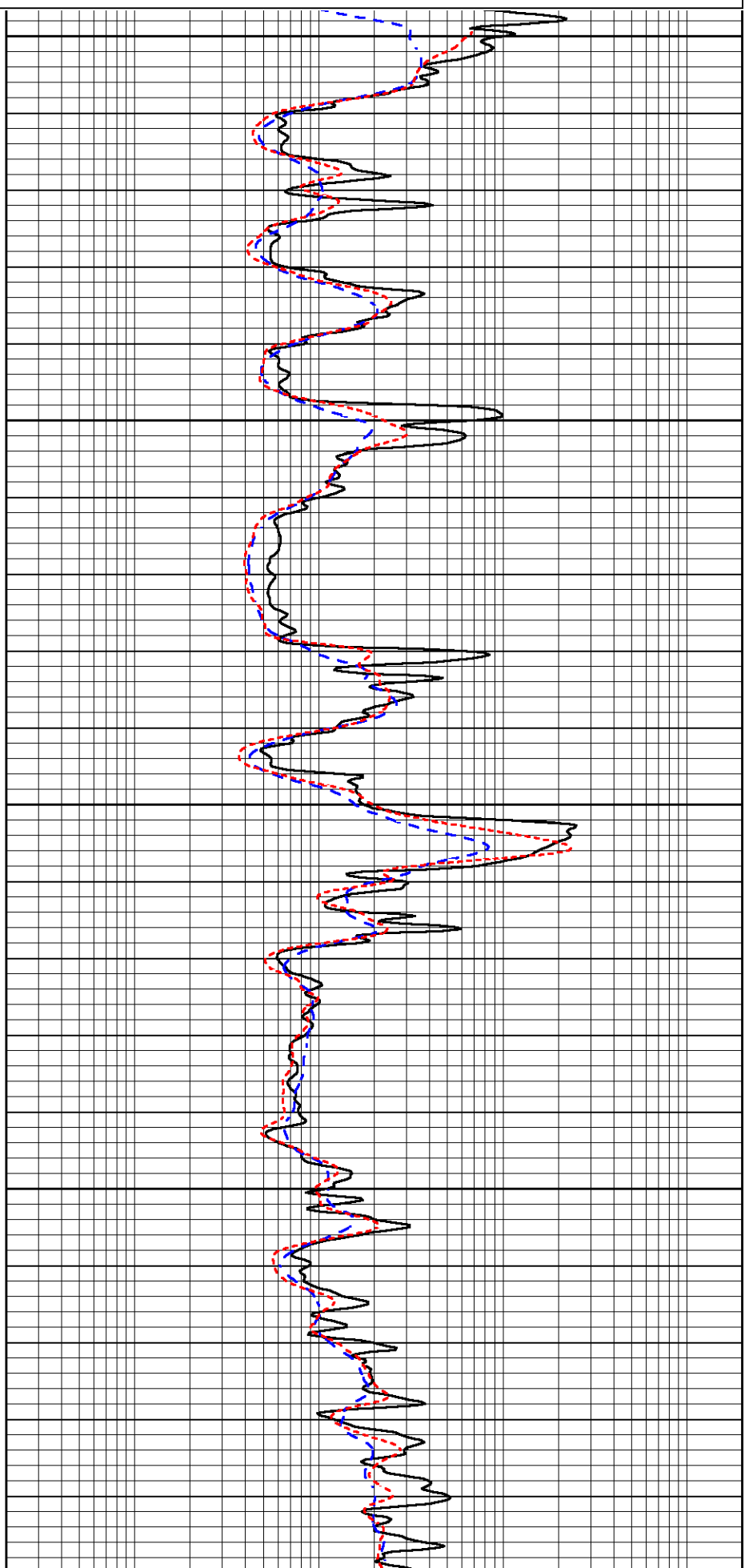
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Dataset Pathname pass2.4R
Presentation Format _dil
Dataset Creation Sun May 29 05:37:53 2022
Charted by Depth in Feet scaled 1:240

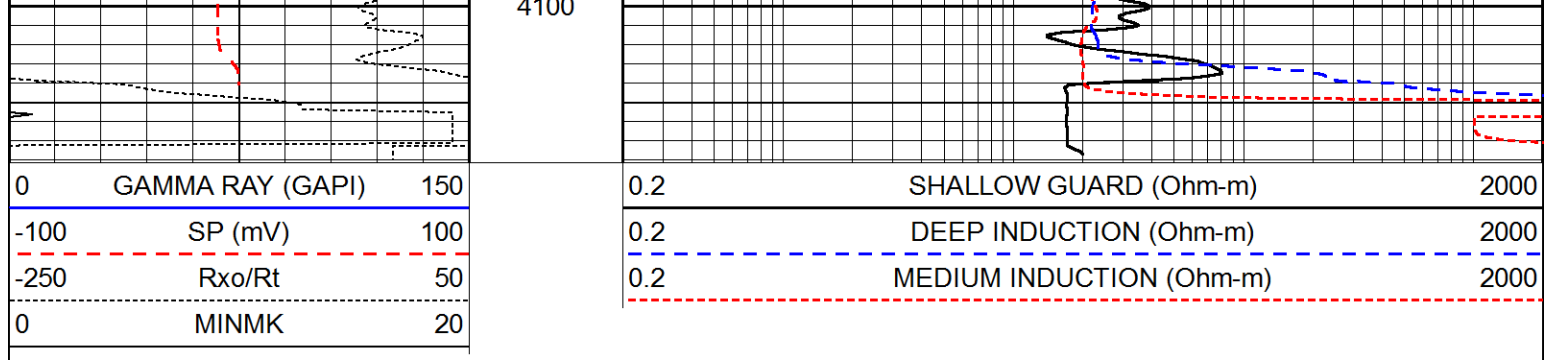


-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000





Calibration Report		
Database File	6559pe.db	
Dataset Pathname	pass3.1M	
Dataset Creation	Sun May 29 05:33:16 2022	

Dual Induction Calibration Report

Serial-Model:	PROBE8-DILG
Surface Cal Performed:	Thu May 26 22:03:32 2022
Downhole Cal Performed:	Mon Sep 10 14:28:38 2018
After Survey Verification Performed:	Mon Sep 10 14:28:40 2018

Surface Calibration			Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b		
Deep	0.015	0.648	V	0.000	400.000	mmho/m	600.000	2.000		
Medium	0.029	0.796	V	0.000	464.000	mmho/m	590.000	-10.000		
Internal:	Zero	Cal		Zero	Cal		m	b		
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619		
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739		

Downhole Calibration			Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'		
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000		
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000		
LL3		7.500	V		1500.000	Ohm-m				
		0.000	V		20.000	Ohm-m				
		-7.200	V		3800.000	mmho-m				

After Survey Verification			Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'		
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000		
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000		
LL3		1.000	Ohm-m		1.000	Ohm-m				
		0.000	Ohm-m		0.000	Ohm-m				
		1.000	mmho-m		1.000	mmho-m				

Litho Density Calibration Report

Serial: 004 Model: PRB

Master Calibration			Performed Mon May 23 11:44:16 2022		
	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	1148.7	7216.0	2498.2	2291.5	cps

Window 1	140.7	7210.0	2450.2	2251.9	cps
Window 2	1052.1	6193.6	2181.7	2034.2	cps
Window 3	896.0	3827.3	1530.0	1472.6	cps
Window 4	252.1	258.7	255.1	254.3	cps
Long Space	0.0	5141.5	1129.6	982.1	cps
Short Space	3.4	1390.2	903.9	792.3	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	
Rib Angle	: 44.1	Rib Slope	: 0.970	Density/Spine Ratio	: 0.559
Spine Angle	: 74.1	Spine Slope	: 3.520	Spine Intercept	: -16.9

Before Survey Verification			Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification			Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

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Compensated Neutron Calibration Report
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Serial Number:	6I
Tool Model:	G

CALIBRATION						
	Detector	Readings		Target		Normalization
	Short Space	1.00	cps	1.00	cps	1.0000
	Long Space	1.00	cps	1.00	cps	1.0000

PRE-SURVEY VERIFICATION						
	Detector	Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps	pu		pu
2)	Short Space		cps			
	Long Space		cps	pu		
3)	Short Space		cps			
	Long Space		cps	pu		

POST-SURVEY VERIFICATION

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	pu
3)	Short Space Long Space	cps cps	pu	pu
Gamma Ray Calibration Report				
	Serial Number:	GR6		
	Tool Model:	OPEN		
	Performed:	Wed May 25 15:13:08 2022		
	Calibrator Value:	150.0	GAPI	
	Background Reading:	0.0	cps	
	Calibrator Reading:	276.0	cps	
	Sensitivity:	0.8000	GAPI/cps	