



DUAL INDUCTION LOG

Company	RJM COMPANY	Location:	API # : 15-159-22885-0000	Other Services CDL/CNL MEL
Well	TIM #1	Permanent Datum	330' FSL & 1100' FWL E/2 - SE - SW - SW	Elevation K.B. 1768 D.F. 1766 G.L. 1758
Field	WILDCAT	Log Measured From	SEC 7 TWP 18S RGE 10W	
County	RICE	Drilling Measured From	GROUND LEVEL Elevation 1758 KELLY BUSHING 10' A.G.L. KELLY BUSHING	
State	KANSAS			
Date	7/11/22			
Run Number	ONE			
Depth Driller	3810			
Depth Logger	3808			
Bottom Logged Interval	3806			
Top Log Interval	00			
Casing Driller	8 5/8"@347'			
Casing Logger	347			
Bit Size	7 7/8"			
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES:7.000 PPM		
Density / Viscosity	9.8/51			
pH / Fluid Loss	9.0/9.2			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	.700@82F			
Rmf @ Meas. Temp	.525@82F			
Rmc @ Meas. Temp	.840@82F			
Source of Rmf / Rmc	MEASURED			
Rm @ BHT	.504@114F			
Time Circulation Stopped	2 HOURS			
Time Logger on Bottom	1.45 P.M.			
Maximum Recorded Temperature	114F			
Equipment Number	8916			
Location	HAYS, KANSAS			
Recorded By	JEFF LUEBBERS			
Witnessed By	JIM MUSGROVE			

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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.

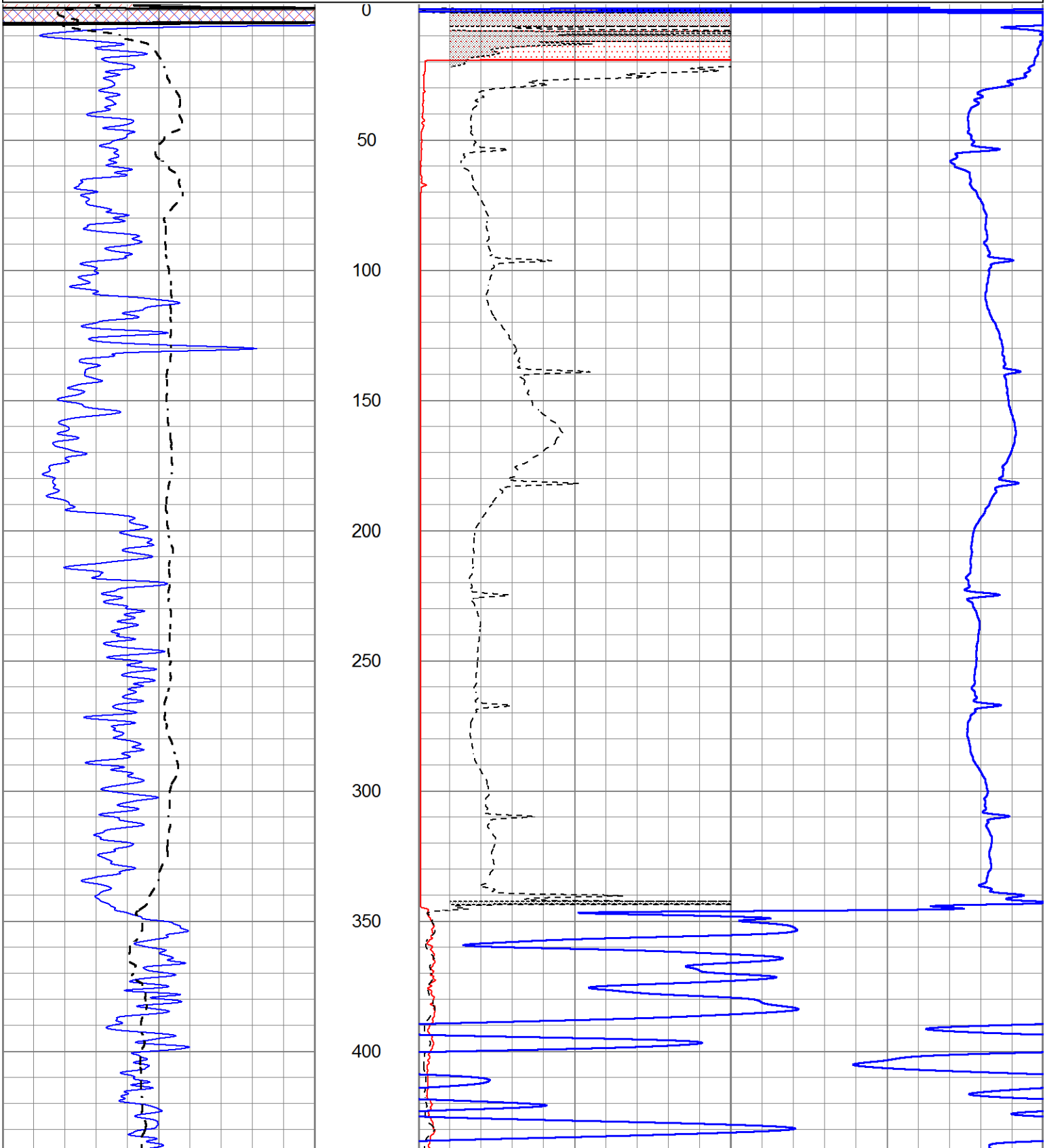
Comments

THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395
DIRECTIONS:
CLAFLIN, KS., 3E. ON HWY 4 TO COUNTY LINE, 2S., 1/2E., S. INTO

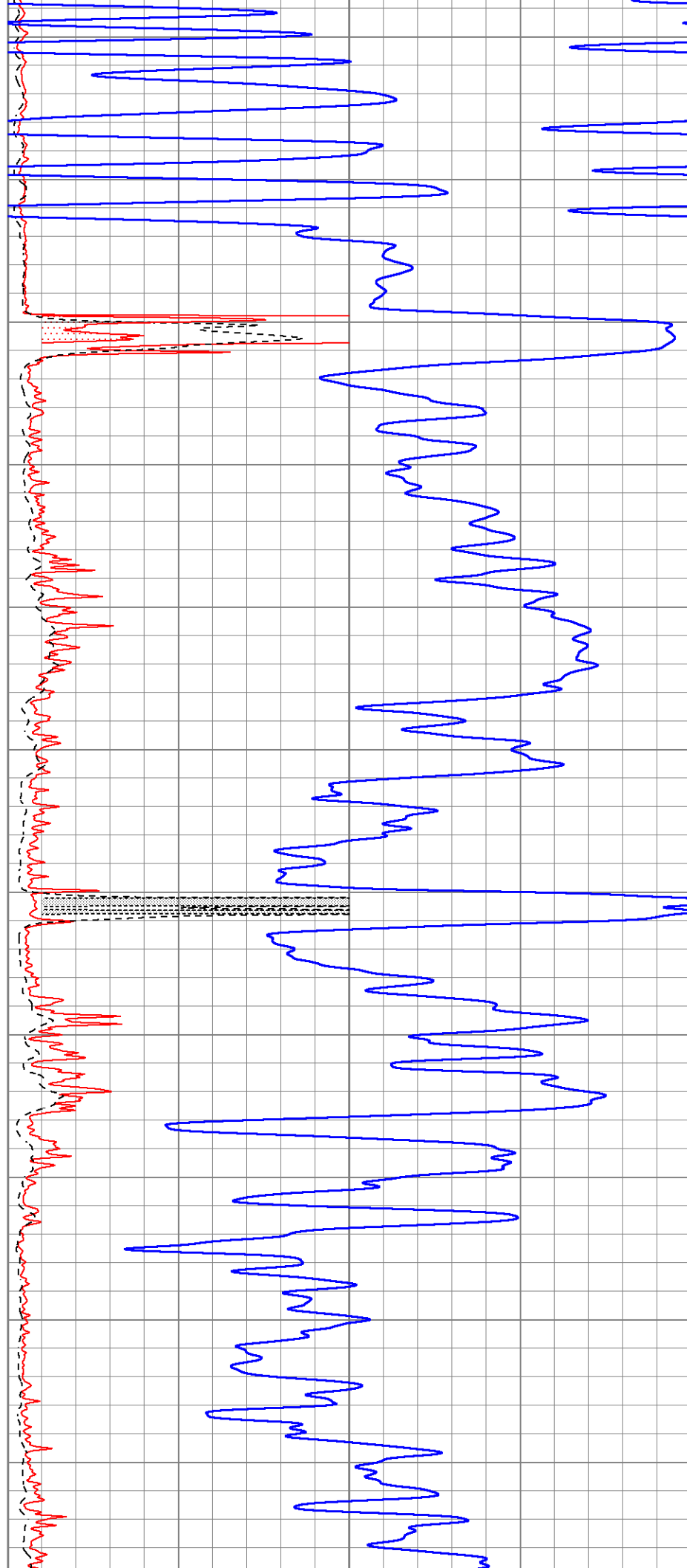
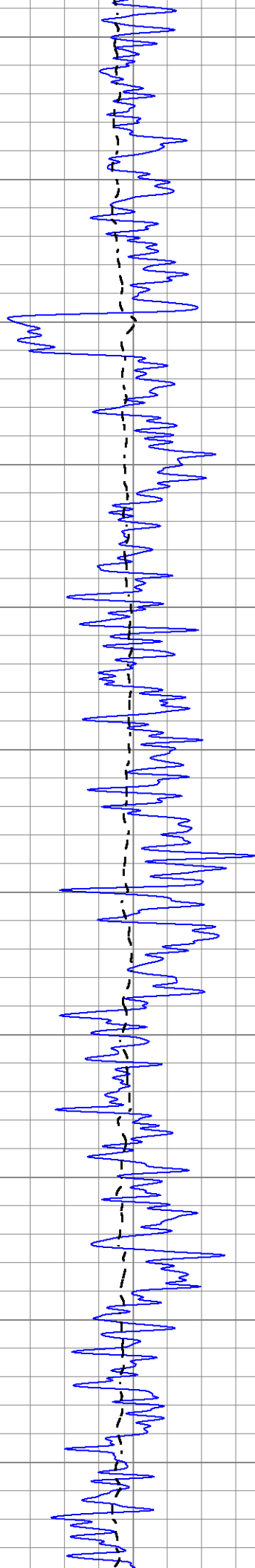


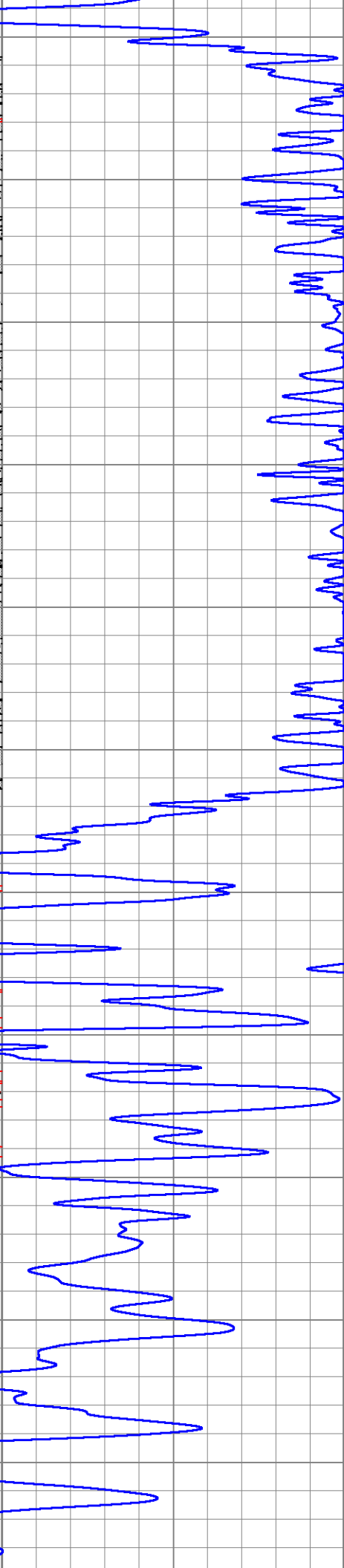
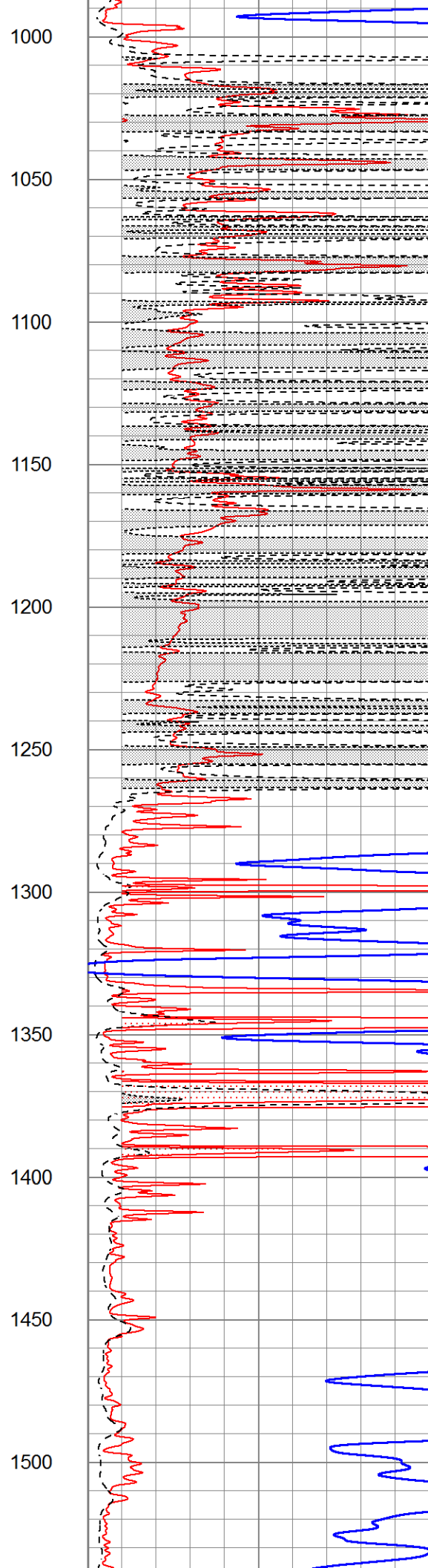
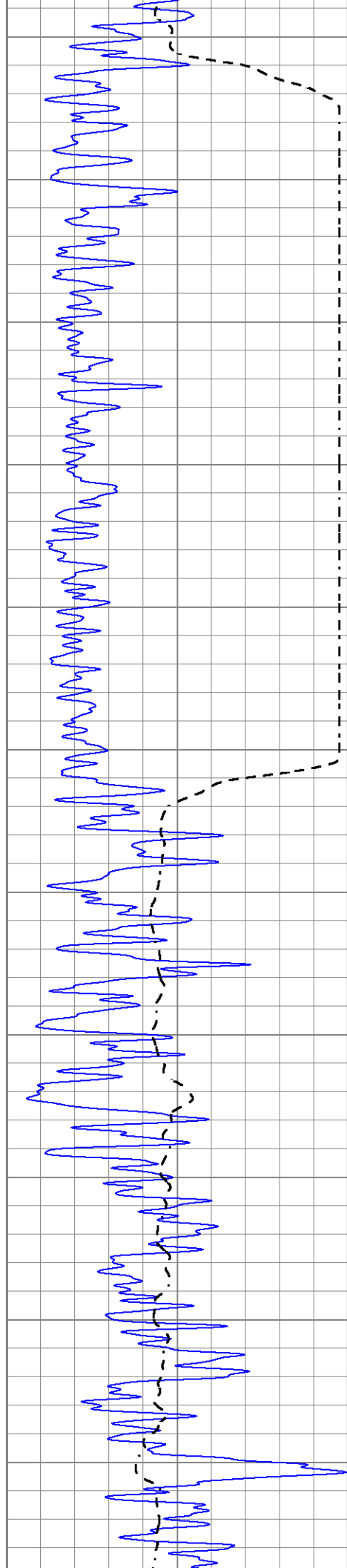
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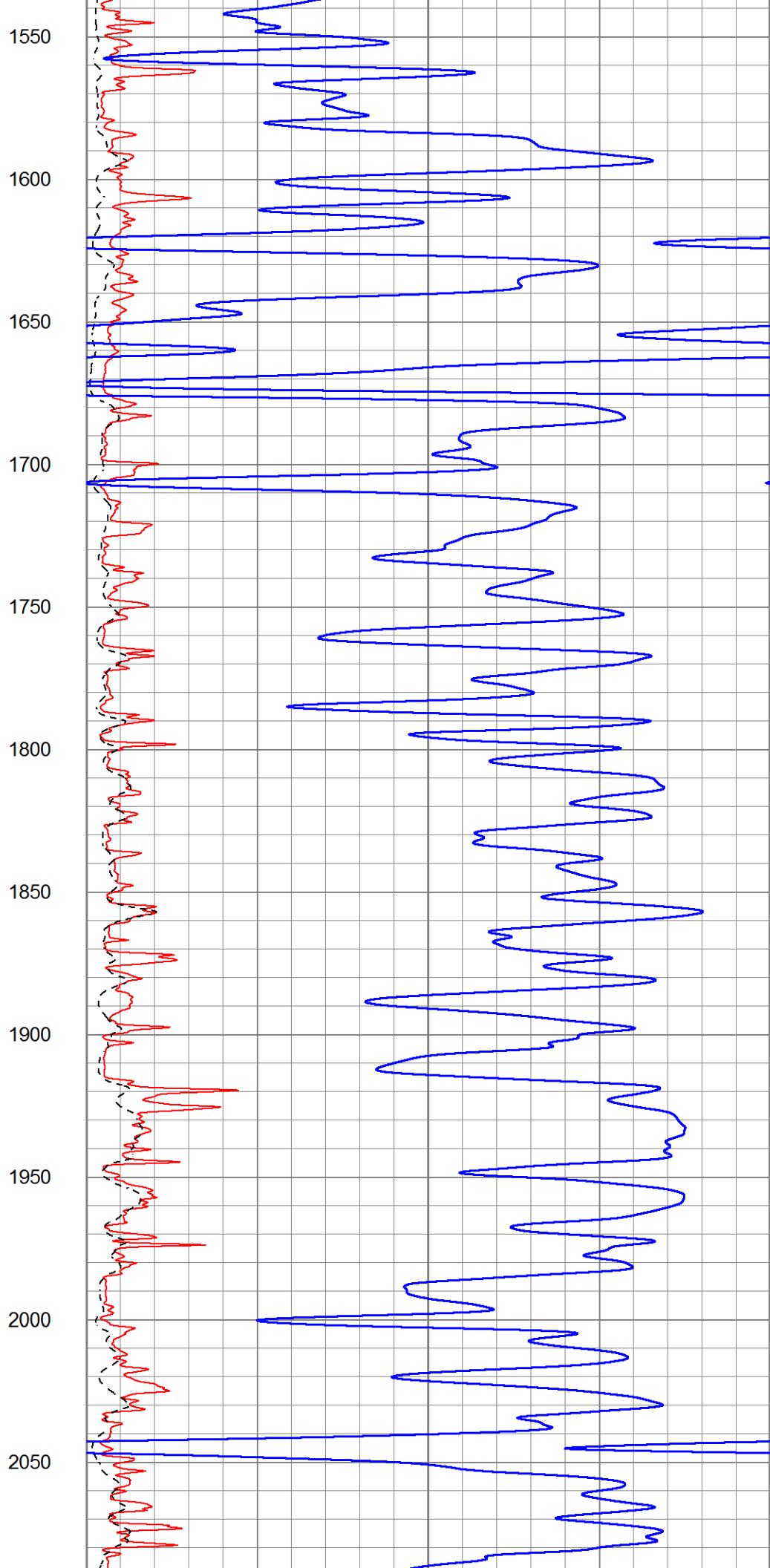
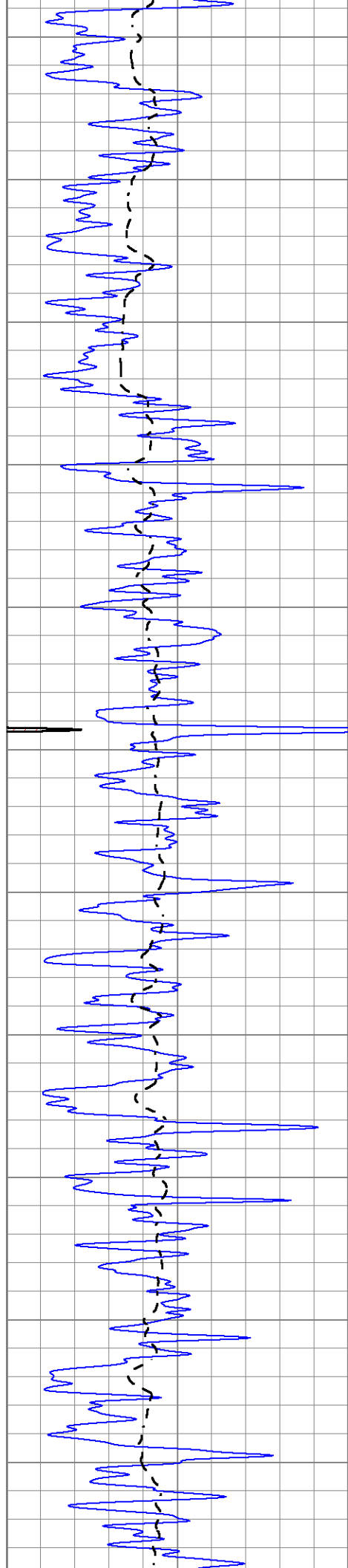
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-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500

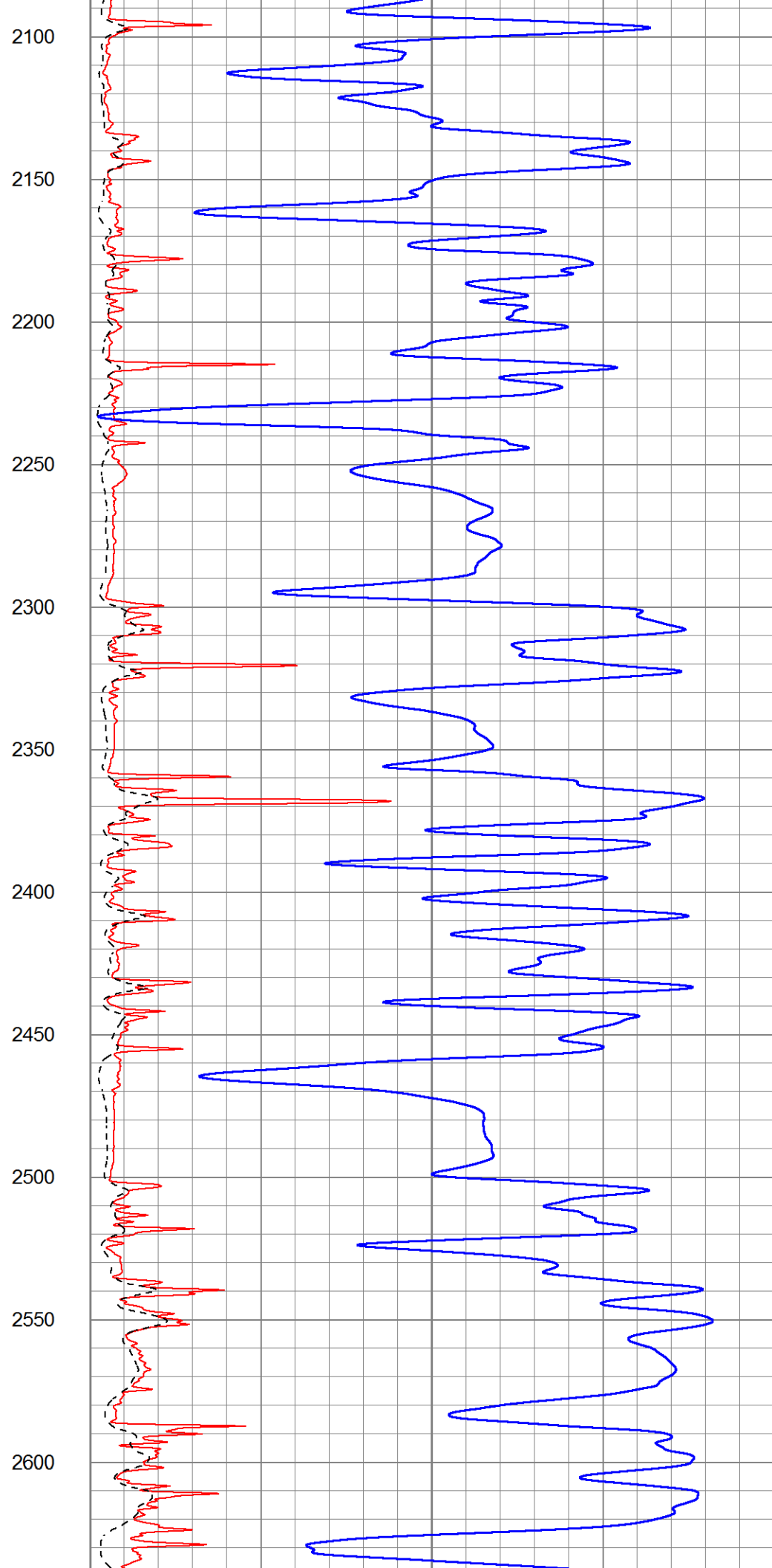
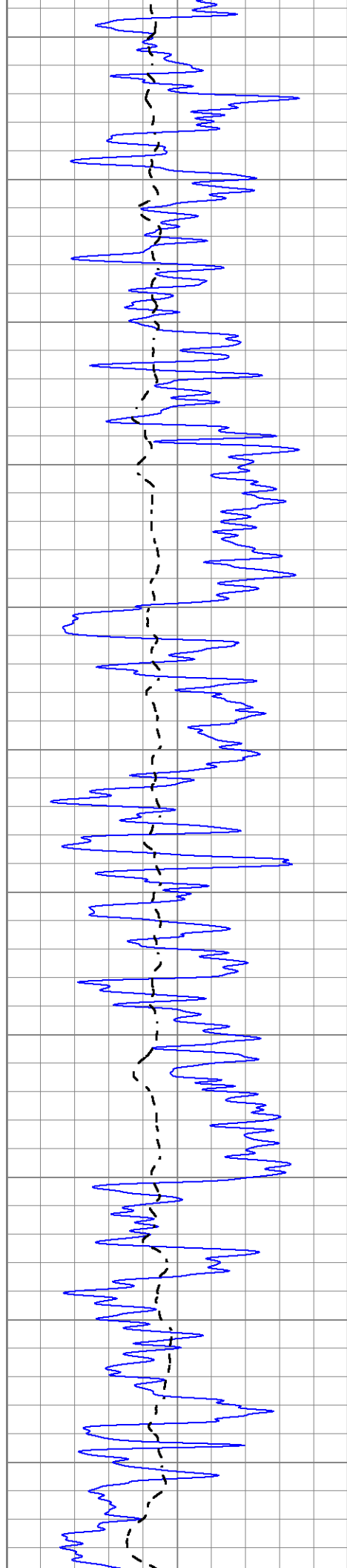


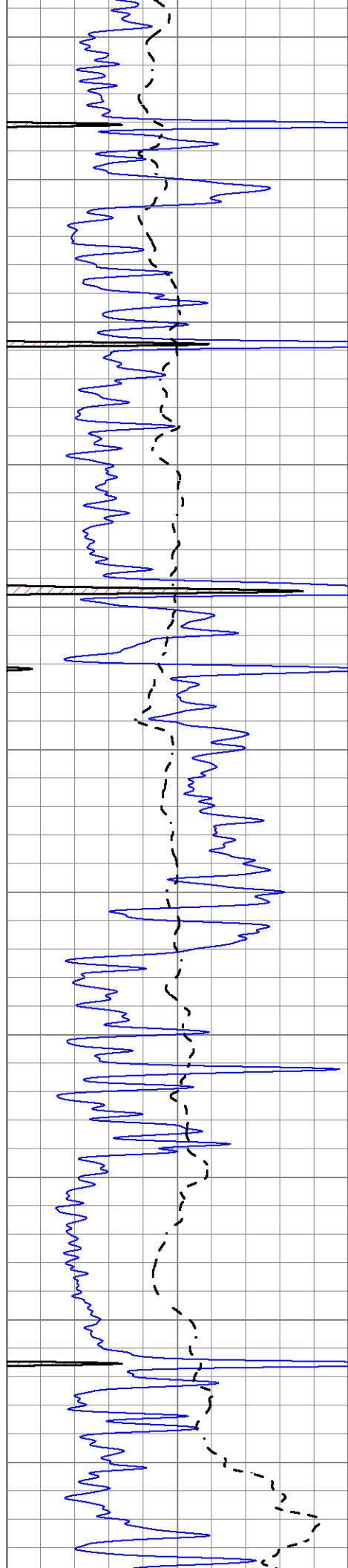
450
500
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650
700
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850
900
950











2650

2700

2750

2800

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2900

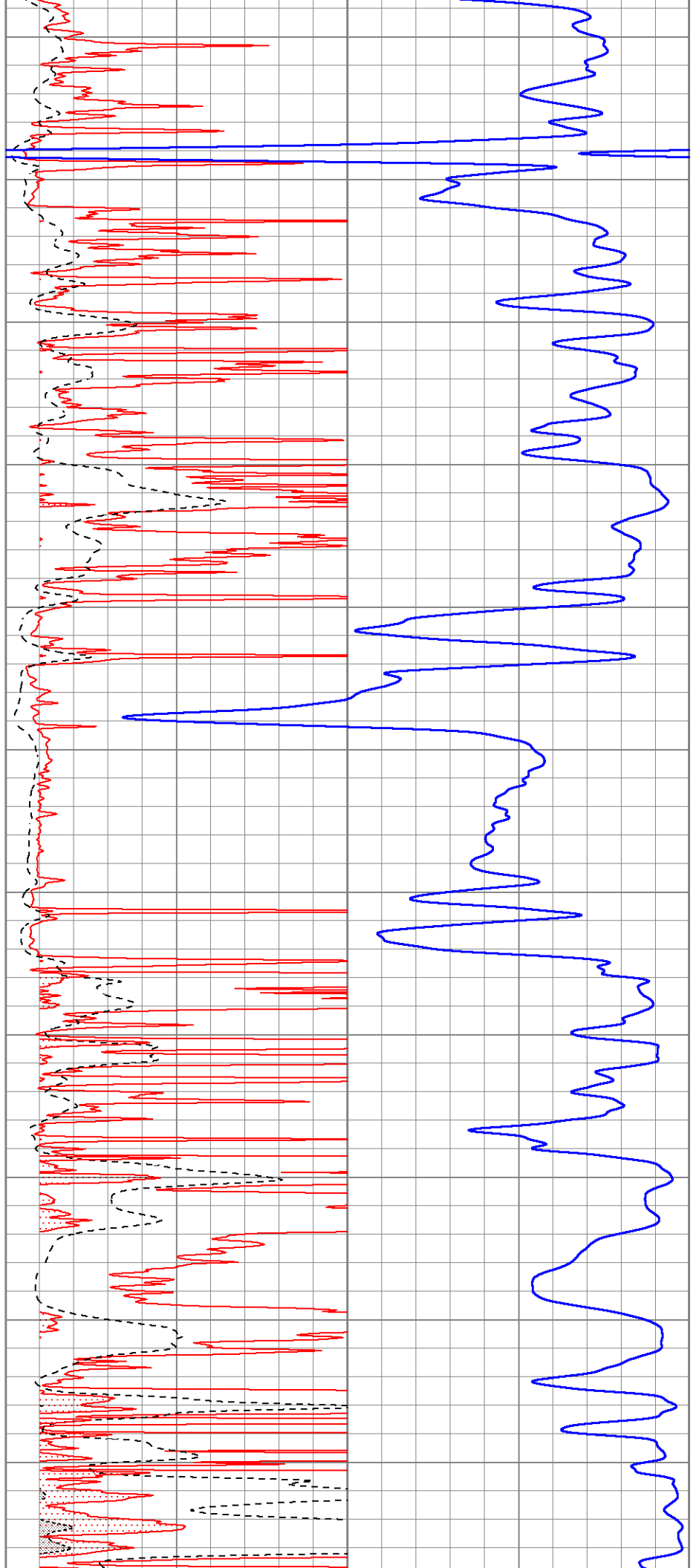
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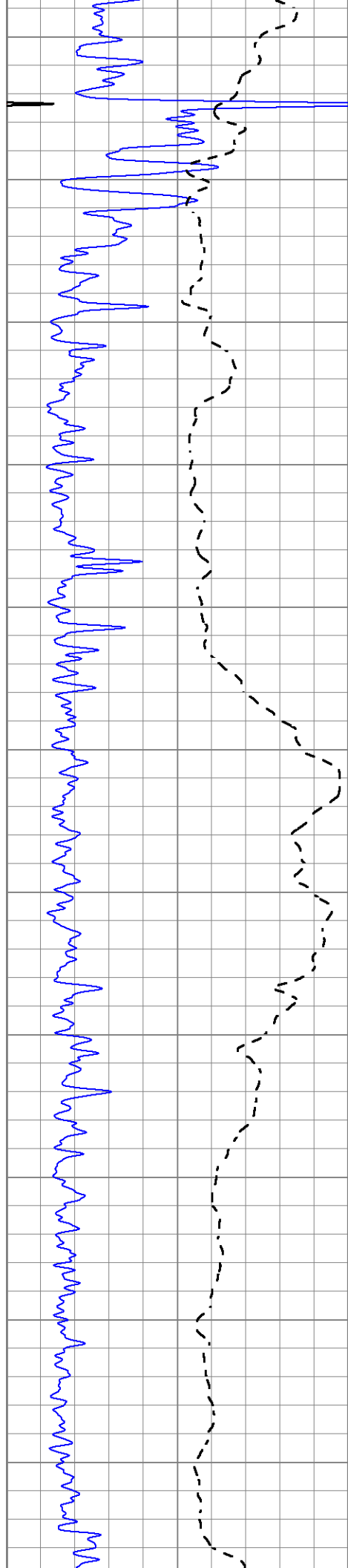
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3050

3100

3150





3200

3250

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3400

3450

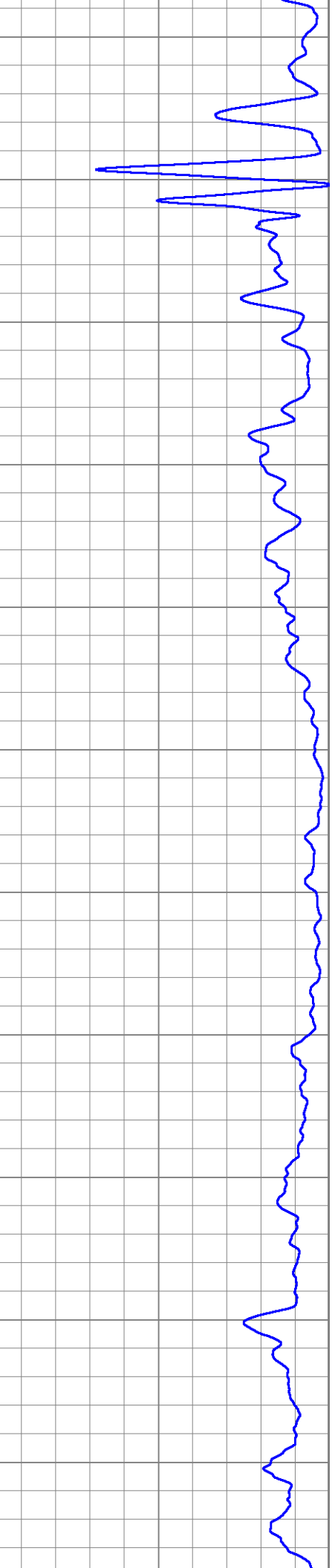
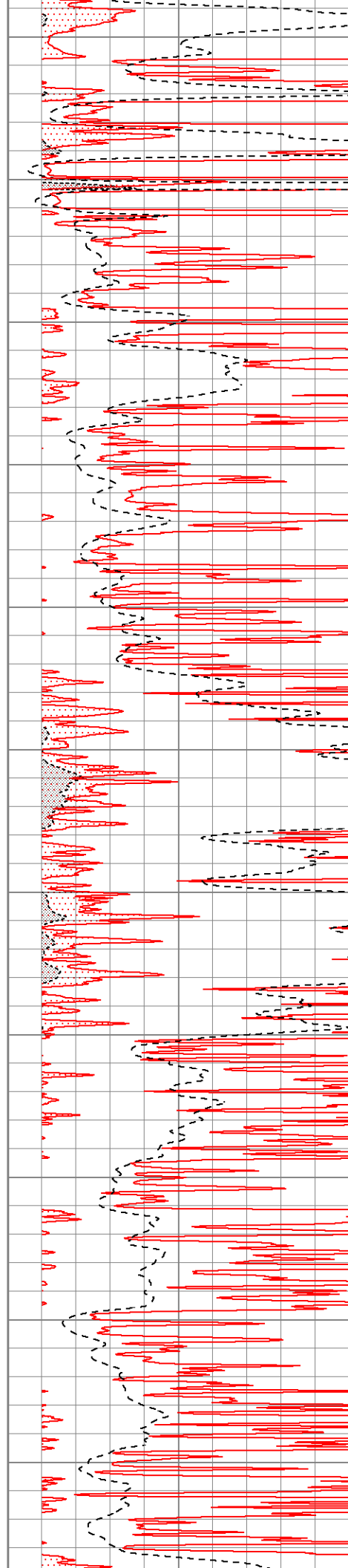
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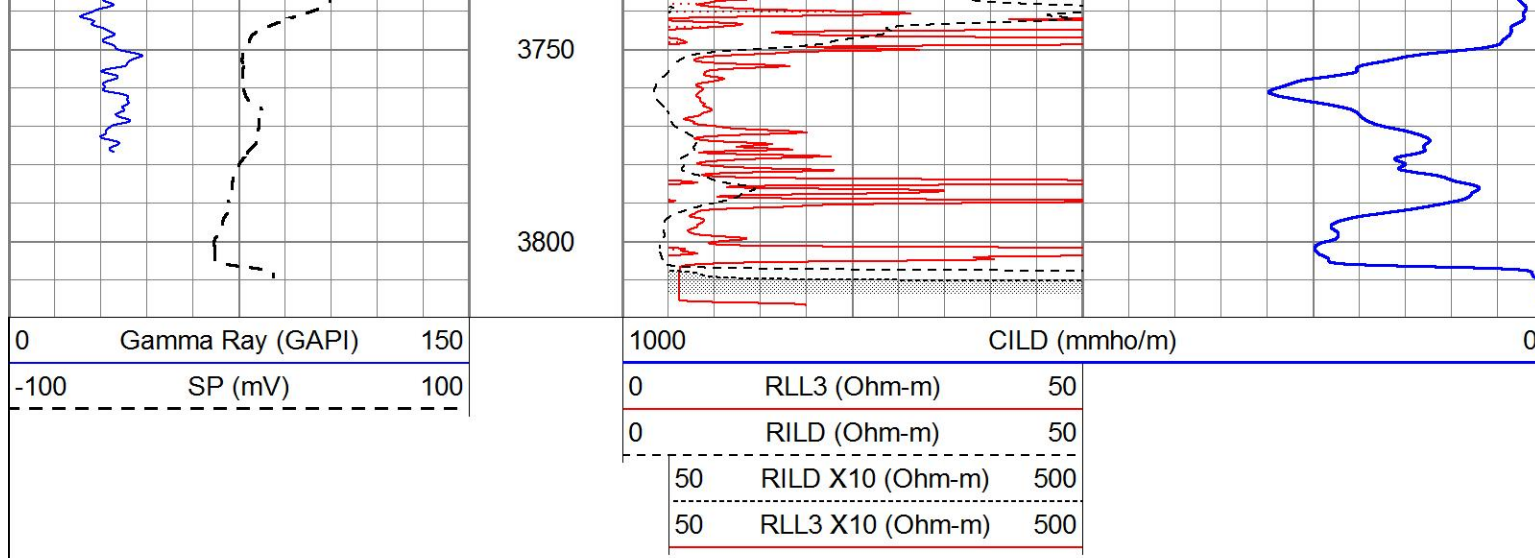
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3600

3650

3700

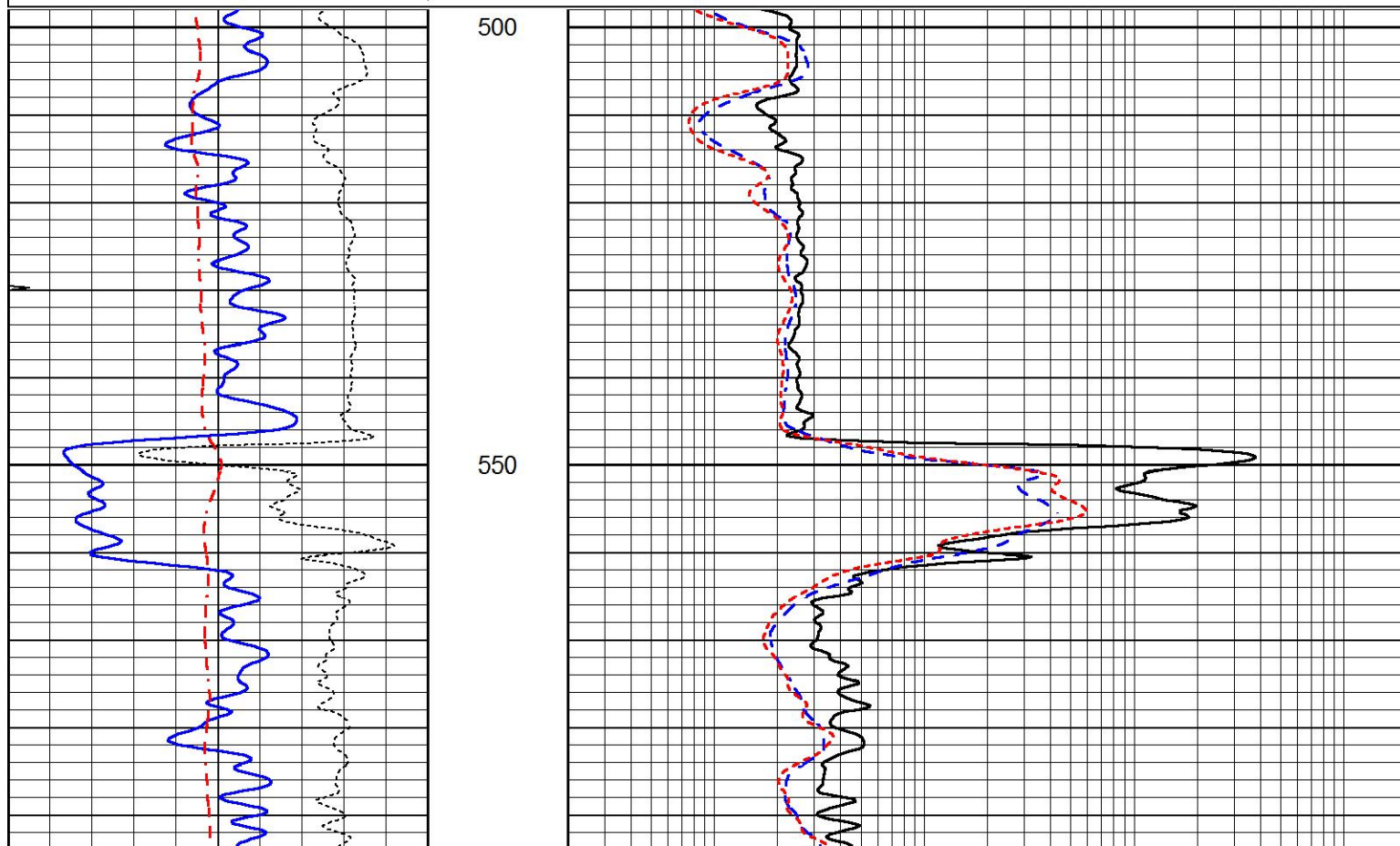


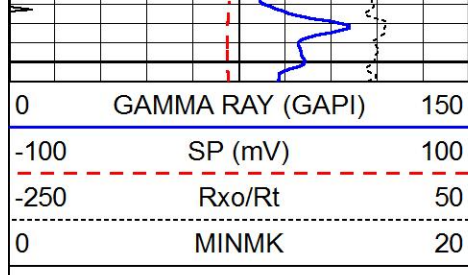


ANHYDRITE

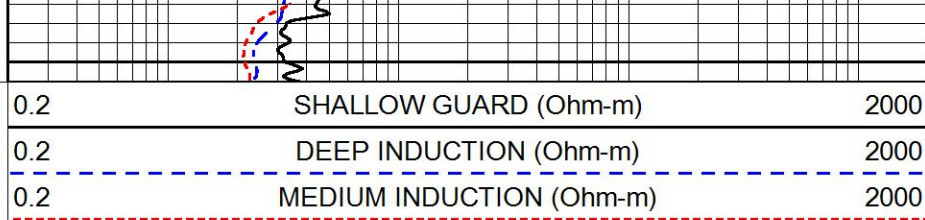
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 Presentation Format _dil
 Dataset Creation Mon Jul 11 15:50:09 2022
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



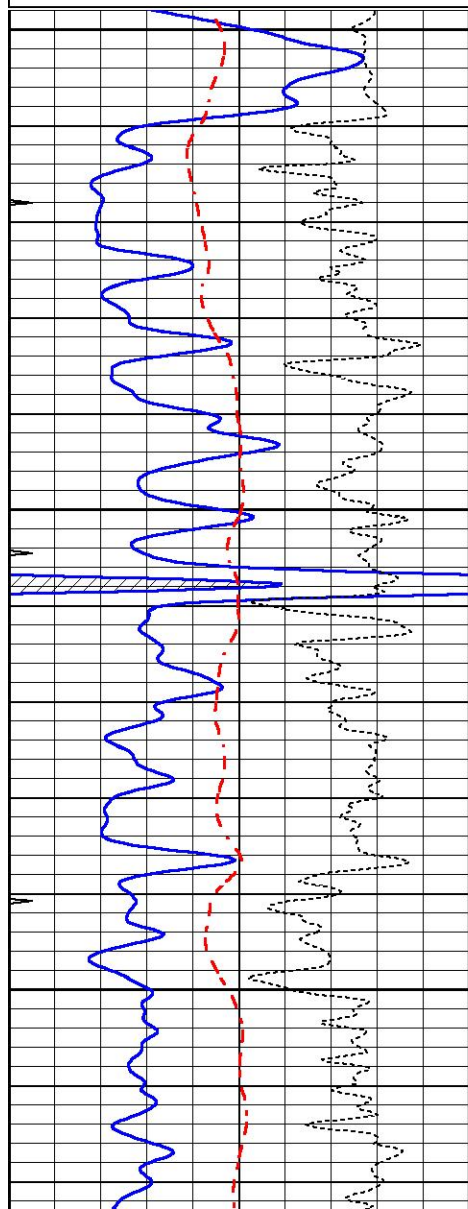
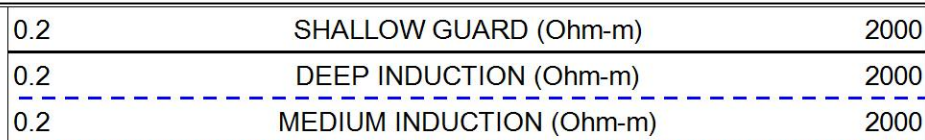
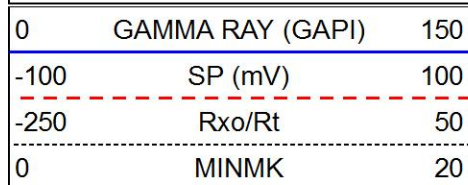


600



MAIN SECTION

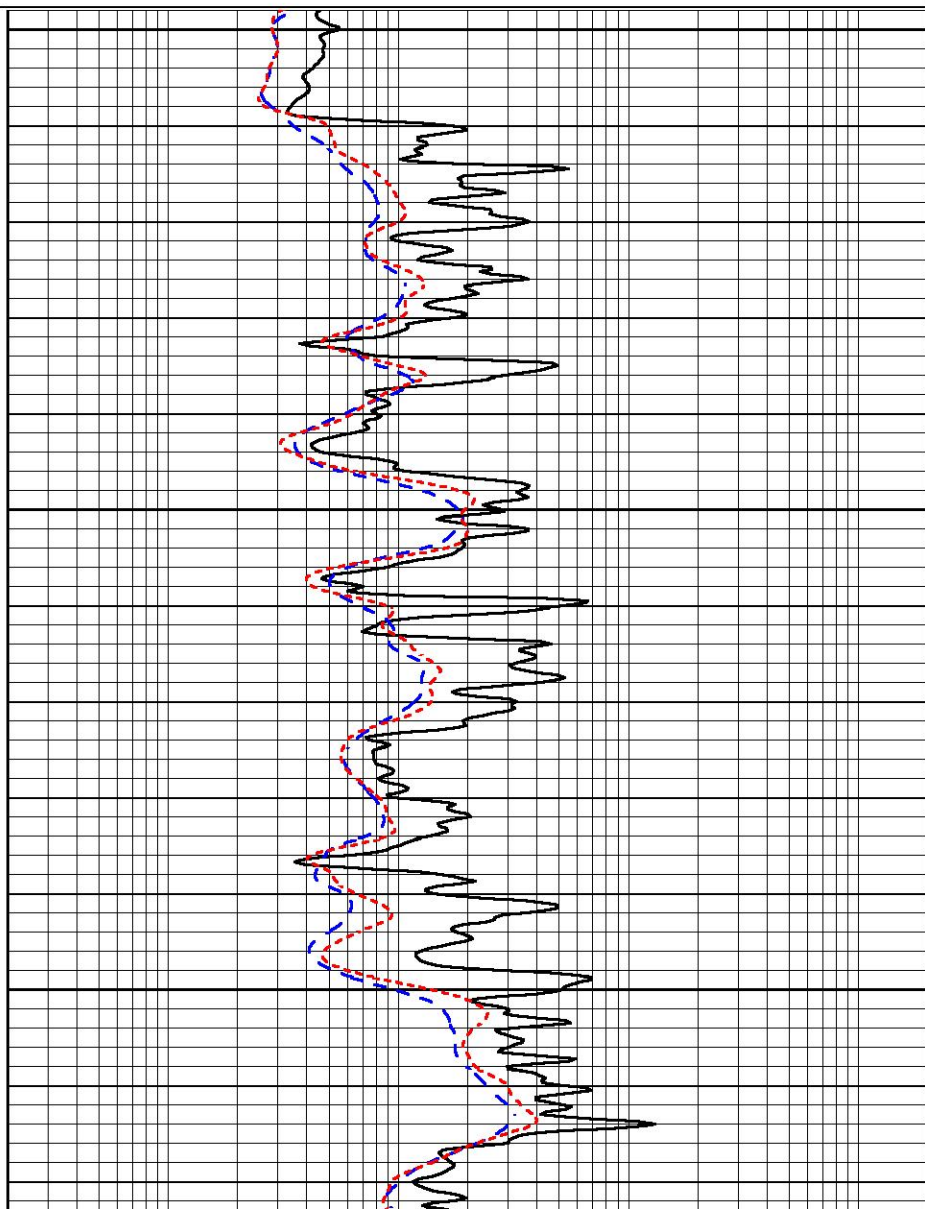
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 Dataset Pathname pass4.4M
 Presentation Format _dil
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 Charted by Depth in Feet scaled 1:240

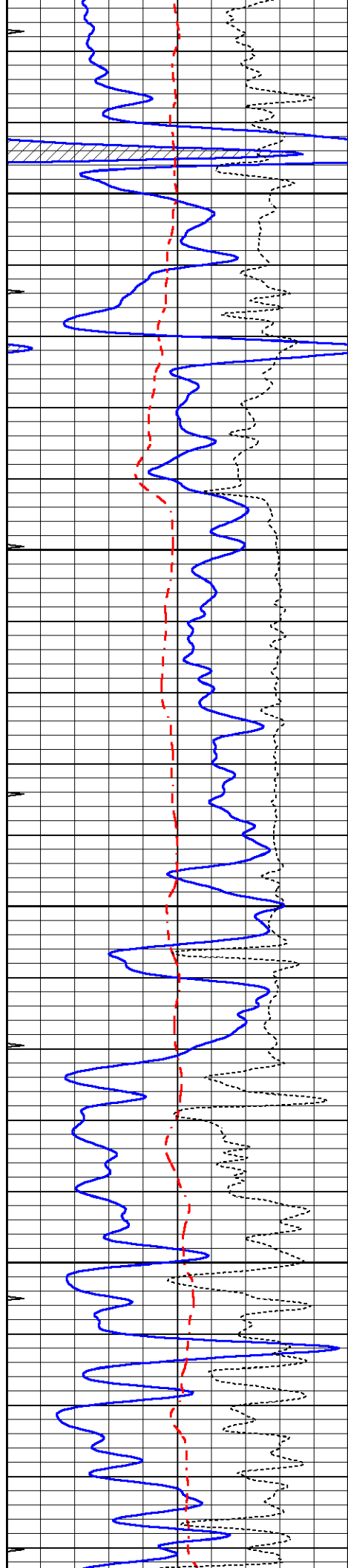


2700

2750

2800



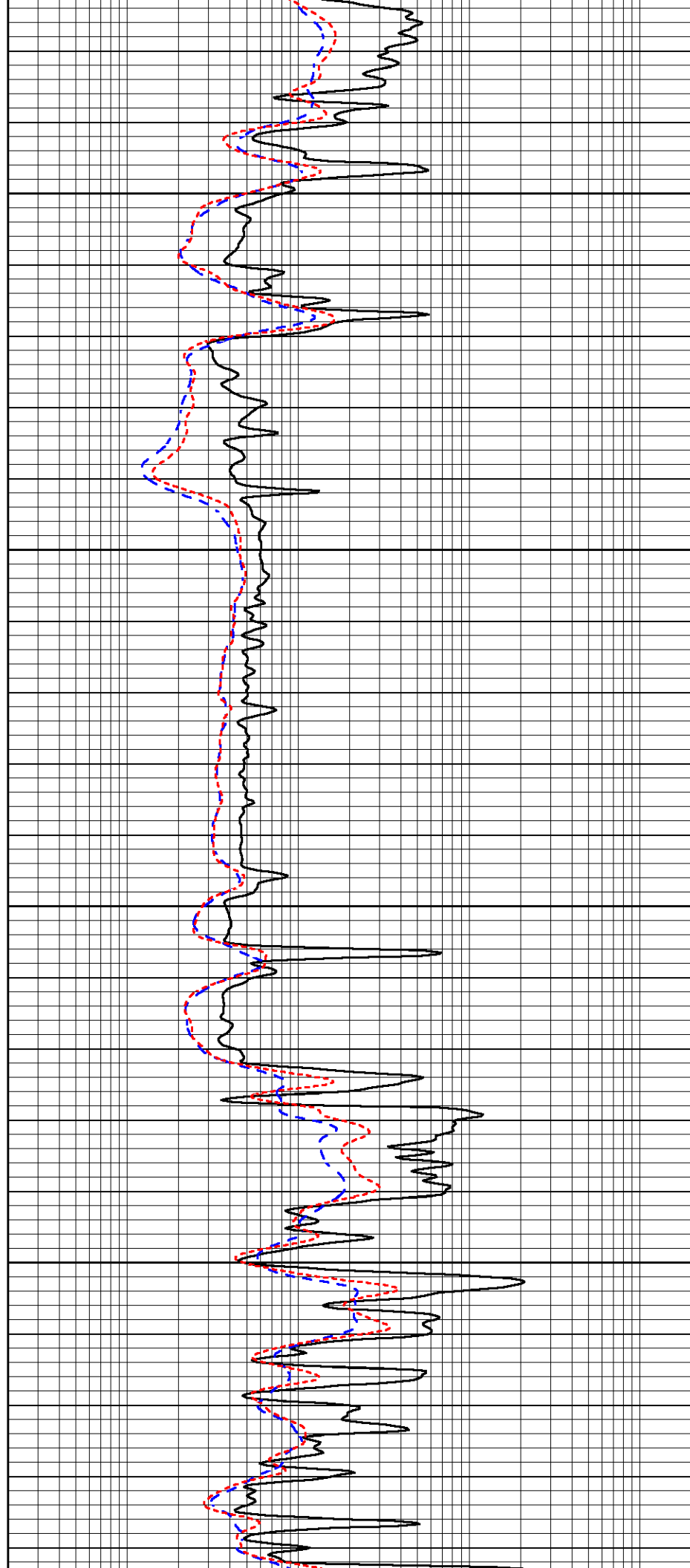


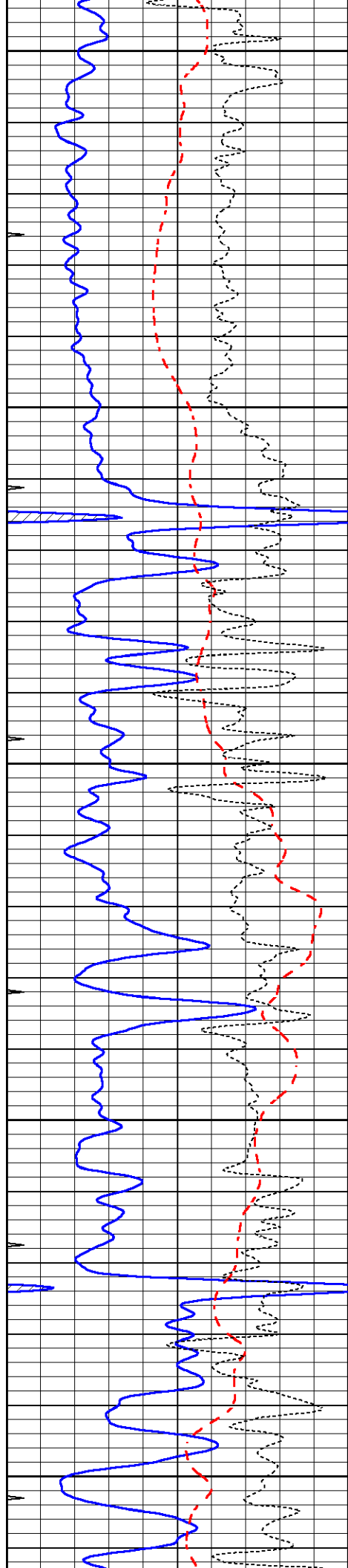
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2900

2950

3000





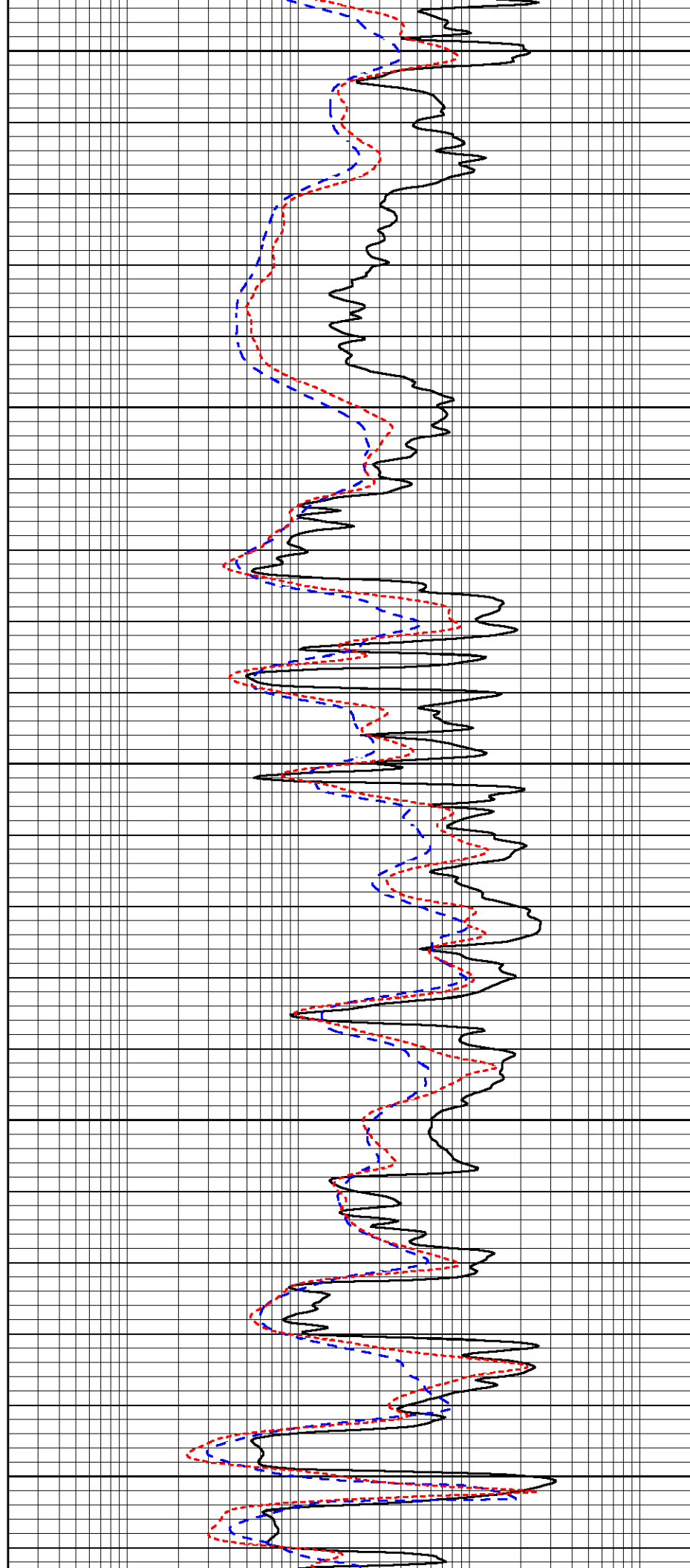
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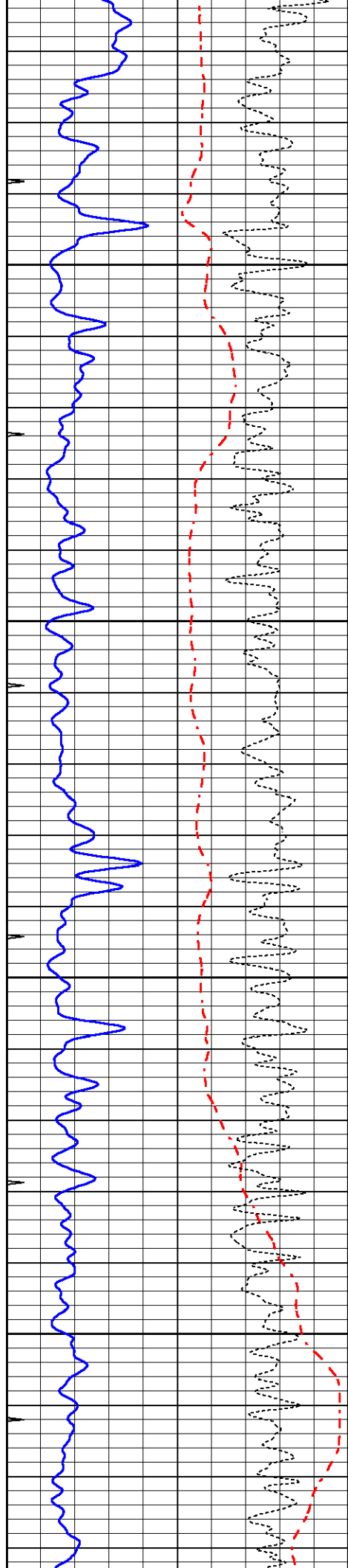
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3150

3200

3250



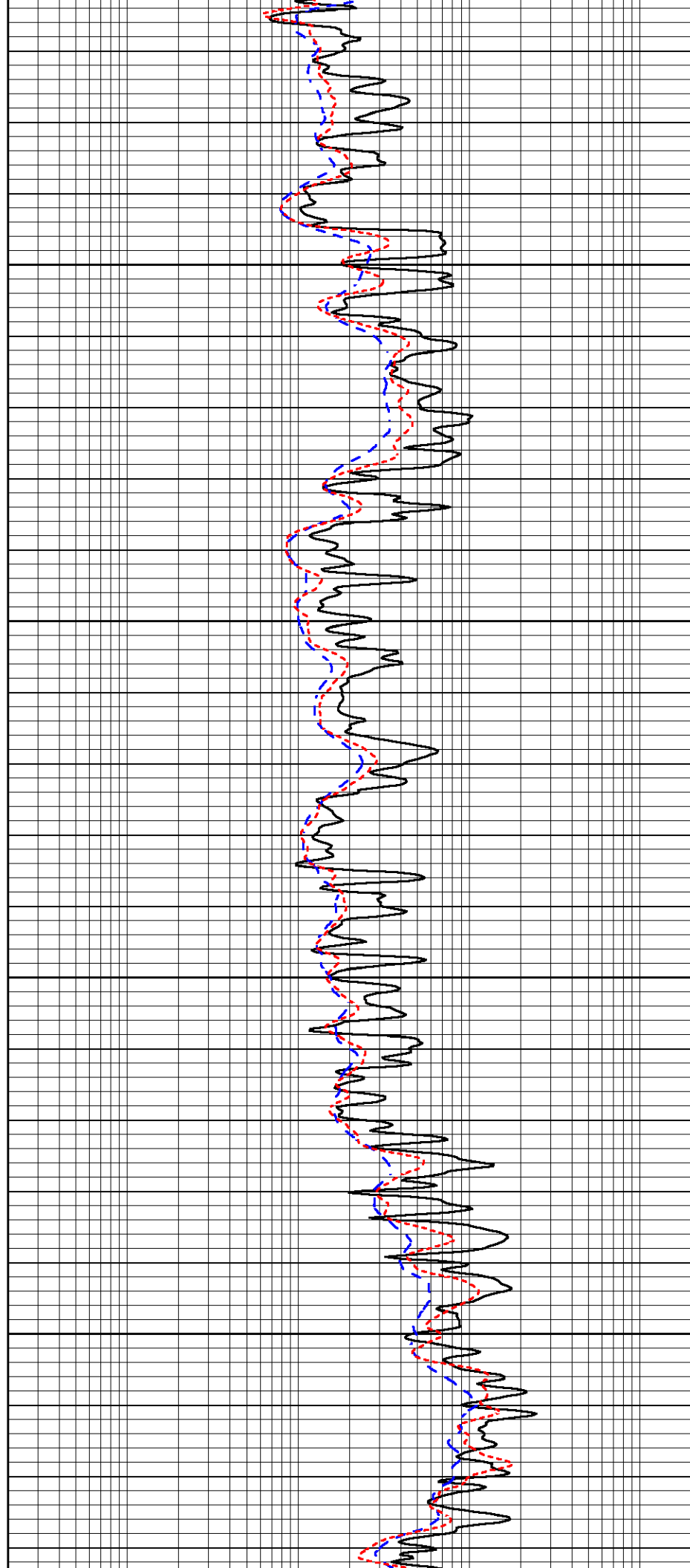


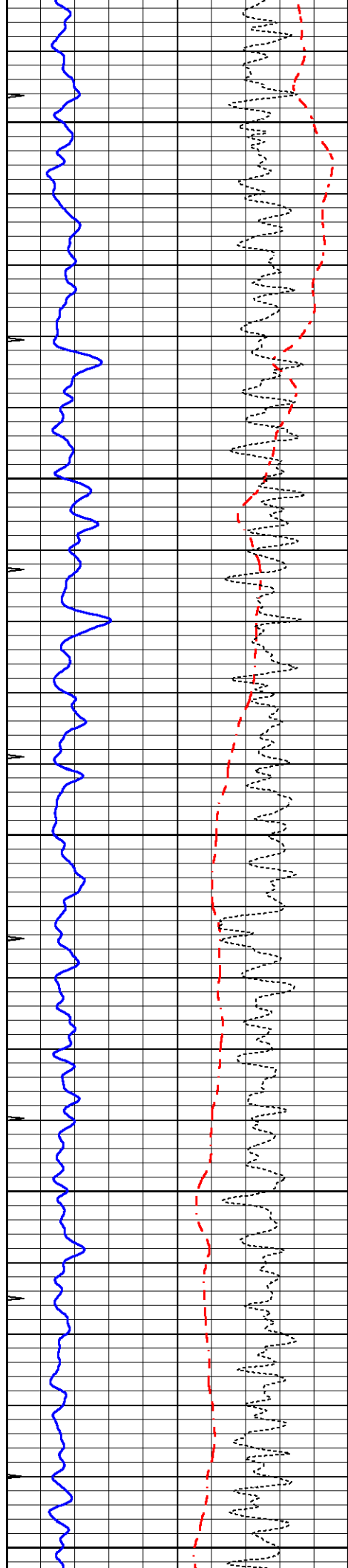
3300

3350

3400

3450





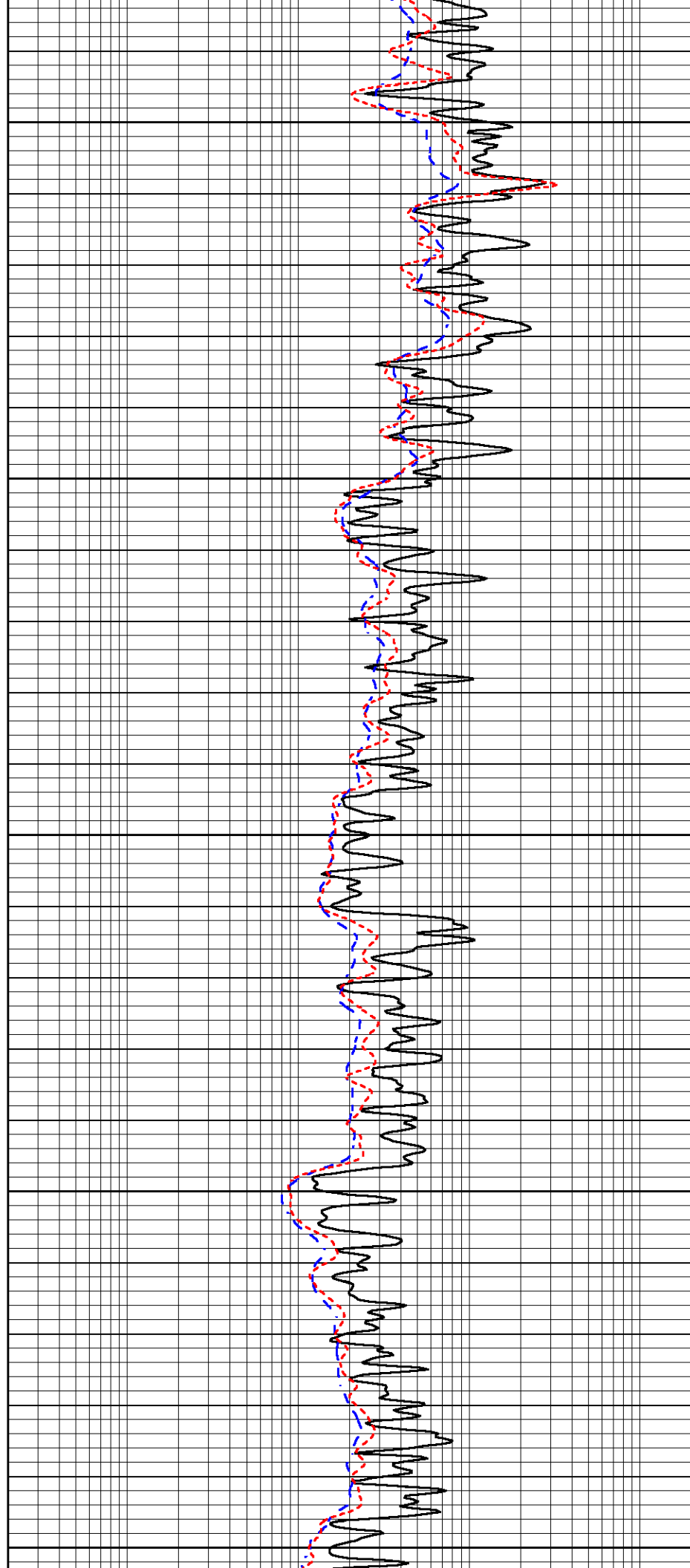
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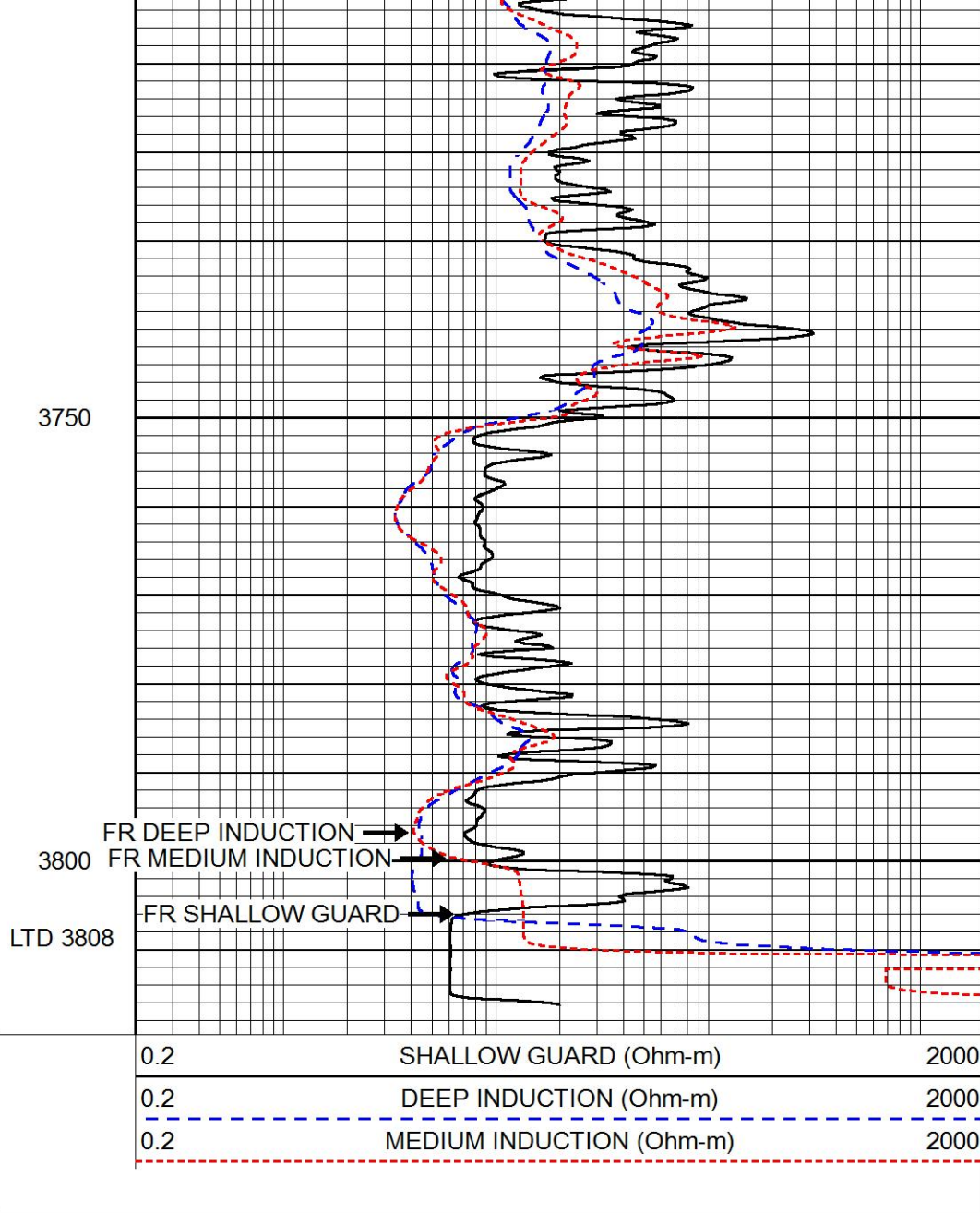
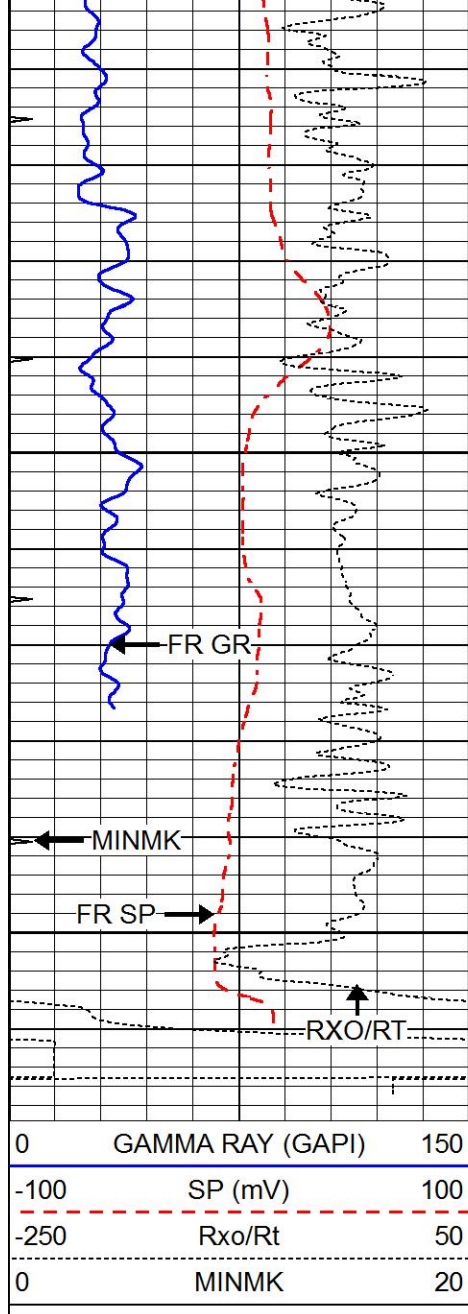
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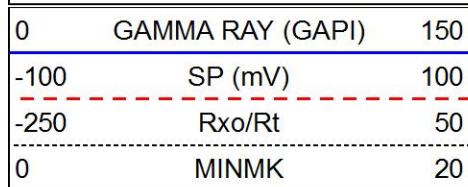
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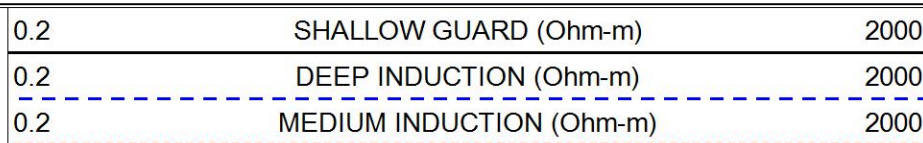


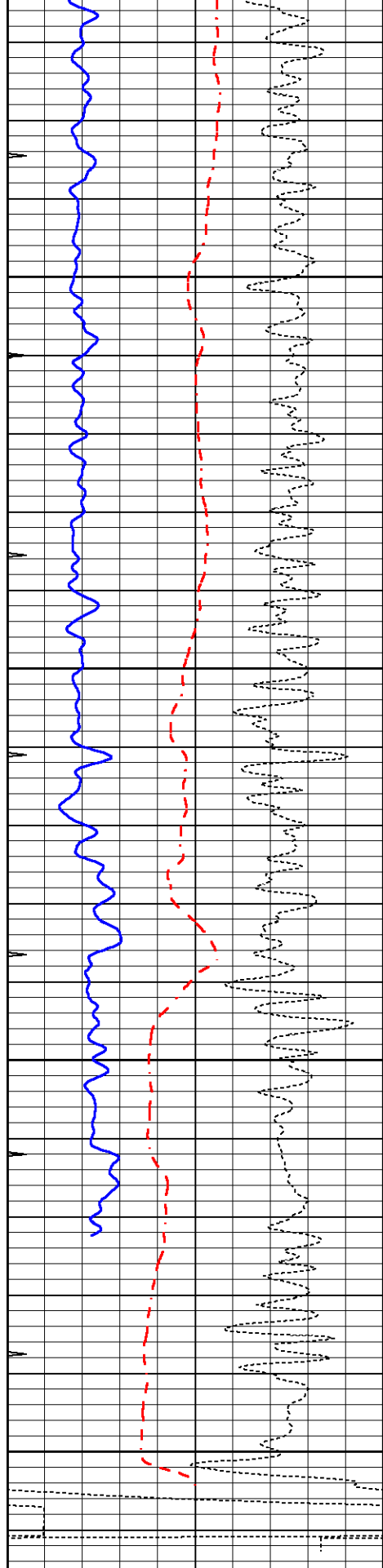
REPEAT SECTION

Database File 6709pe.db
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 Dataset Creation Mon Jul 11 15:14:19 2022
 Charted by Depth in Feet scaled 1:240



3600





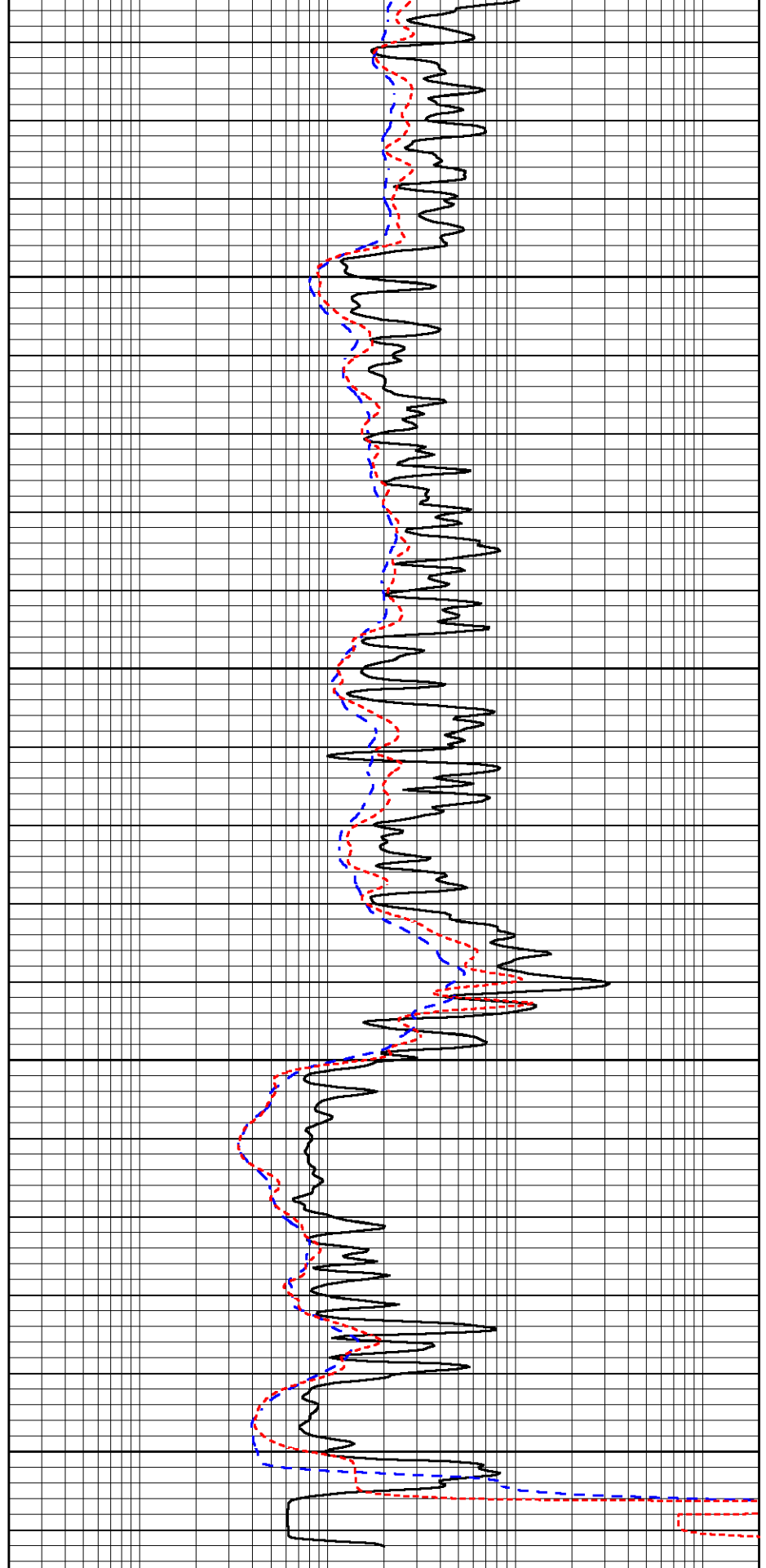
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

3650

3700

3750

3800



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

Calibration Report								
Database File	6709pe.db							
Dataset Pathname	pass4.4M							
Dataset Creation	Mon Jul 11 16:19:00 2022							
Dual Induction Calibration Report								
Serial-Model:			PROBE8-DILG					
Surface Cal Performed:			Fri Jul 08 06:41:07 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	620.000	0.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	600.000	-14.000
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: 001N			Model: PRB					
Master Calibration				Performed Thu Mar 19 11:30:16 2020				
	Background	Magnesium		Aluminum	Aluminum+Fe			
Window 1	1572.2	7510.8		2837.3	2643.1			cps
Window 2	1446.2	6523.9		2552.8	2409.9			cps
Window 3	1060.9	3611.4		1731.5	1684.8			cps
Window 4	145.5	363.4		363.2	368.1			cps
Long Space	0.0	5077.7		1106.6	963.7			cps
Short Space	3.1	1709.3		1103.4	916.9			cps
Rho		1.7100		2.5900	0.0000			g/cc
Pe		2.0000		2.7500	5.7900			
Rib Angle	: 44.0	Rib Slope	: 0.965	Density/Spine Ratio			: 0.555	
Spine Angle	: 74.0	Spine Slope	: 3.481	Spine Intercept			: -17.4	

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

Serial Number:	6l
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						
	Detector	Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps	pu		pu
2)	Short Space		cps			
	Long Space		cps	pu		pu
3)	Short Space		cps			
	Long Space		cps	pu		pu

Long Space

cps

pa

pa

Gamma Ray Calibration Report

Serial Number:	GR6	
Tool Model:	OPEN	
Performed:	Mon Jun 20 01:31:16 2022	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	276.0	cps
Sensitivity:	0.8500	GAPI/cps