

DUAL INDUCTION LOG

Company	RL INVESTMENT, LLC.	Location:	API # : 15-179-21471-0000	Other Services CDL/CNL/MEL
Well	PRATT "A" #5-35	SEC 35	TWP 8S	RGE 29W
Field	HOXIE WEST	Permanent Datum	GROUND LEVEL	Elevation
County	SHERIDAN	Log Measured From	KELLY BUSHING 7' A.G.L.	K.B. 2824
State	KANSAS	Drilling Measured From	KELLY BUSHING	D.F. 2822
				G.L. 2817
Date	04/20/21			
Run Number	ONE			
Depth Driller	4406			
Depth Logger	4406			
Bottom Logged Interval	4404			
Top Log Interval	00			
Casing Driller	8 5/8" @ 262			
Casing Logger	262			
Bit Size	7 7/8"			
Type Fluid in Hole	CHEMICAL MUD			
Density / Viscosity	9.3/65			
pH / Fluid Loss	8.1/11.0			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	1.3 @ 65F			
Rmf @ Meas. Temp	.98 @ 65F			
Rmc @ Meas. Temp	1.56 @ 65F			
Source of Rmf / Rmc	MEASURED			
Rm @ BHT	.70 @ 120F			
Time Circulation Stopped	2 HOURS			
Time Logger on Bottom	////			
Maximum Recorded Temperature	120F			
Equipment Number	1523			
Location	HAYS, KANSAS			
Recorded By	GUS PFANENSTIEL			
Witnessed By	CLAYTON ERICKSON			

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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

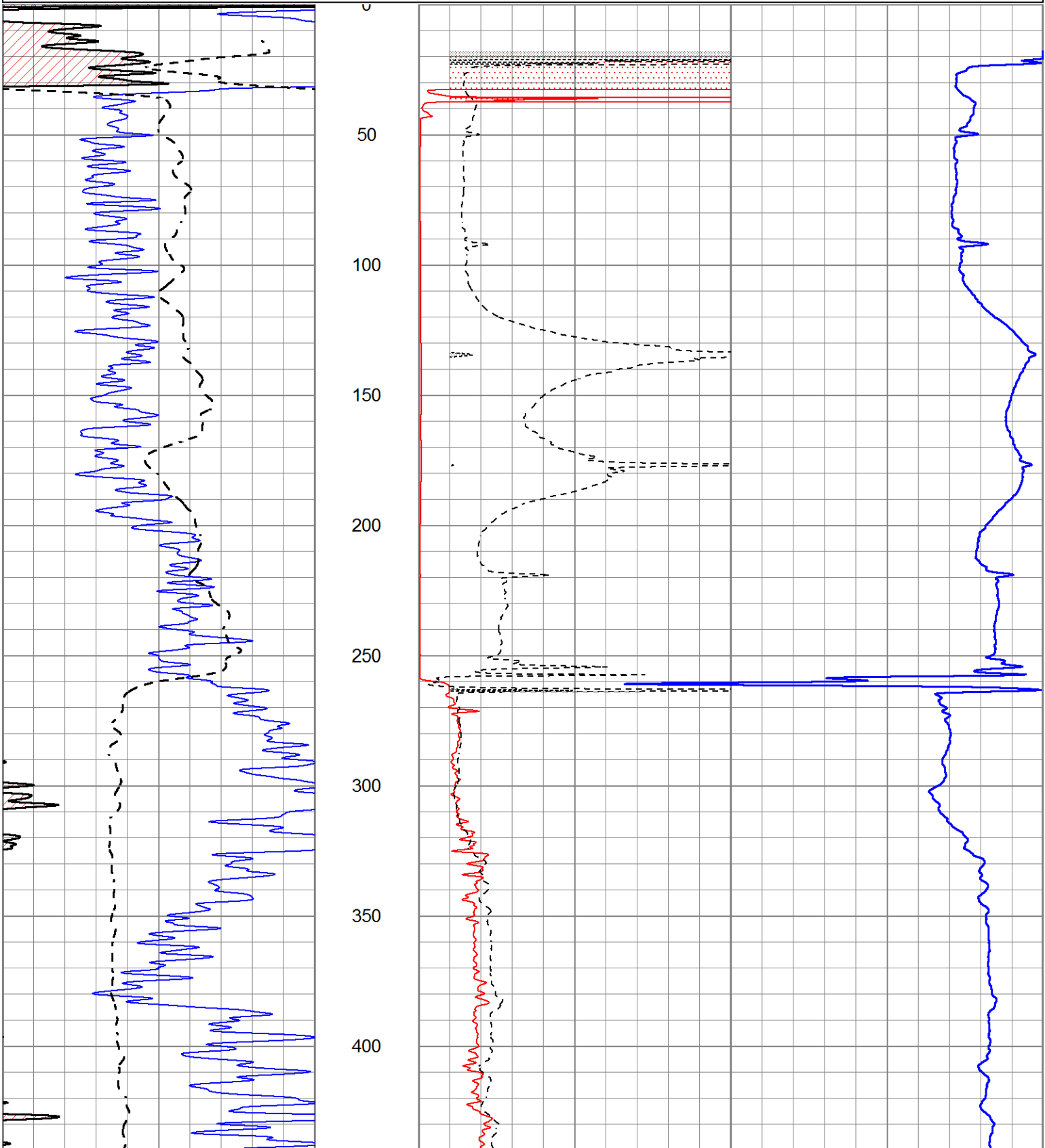
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395

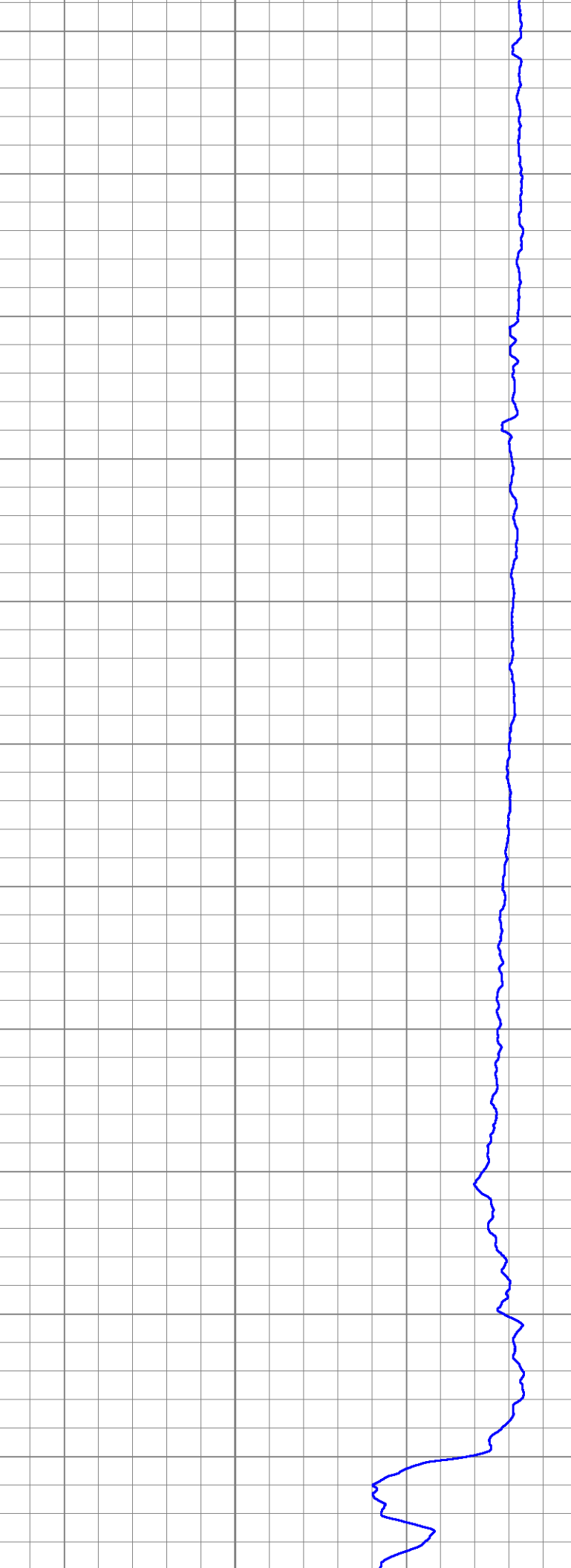
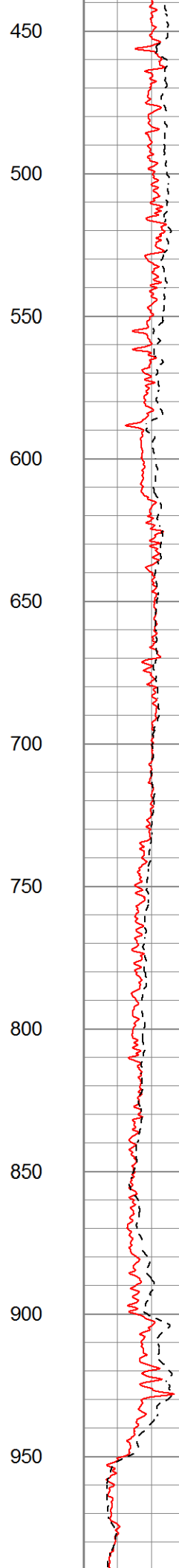
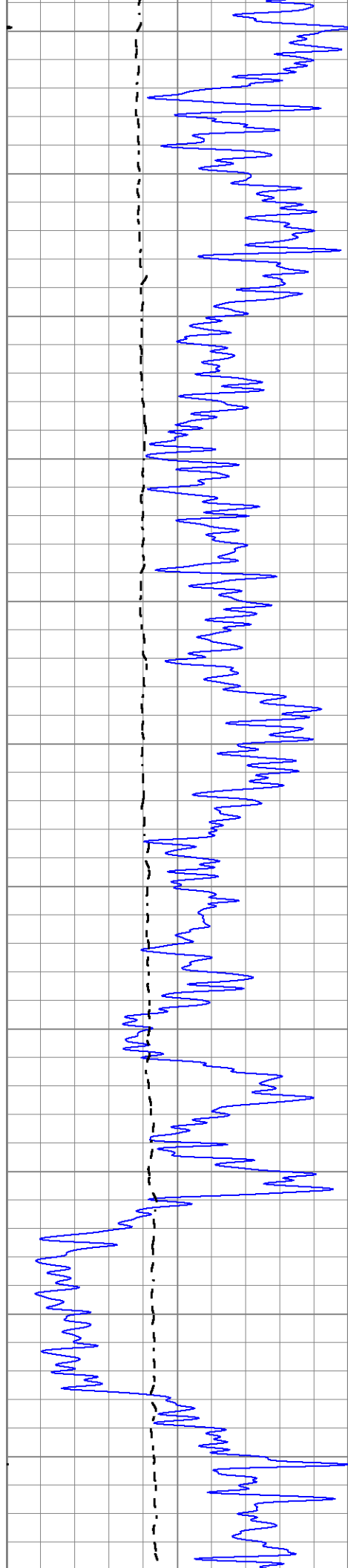
DIRECTIONS: HOXIE 3 S TO 30 RD., 5 W TO 50 RD.,
1/2 S, E INTO.

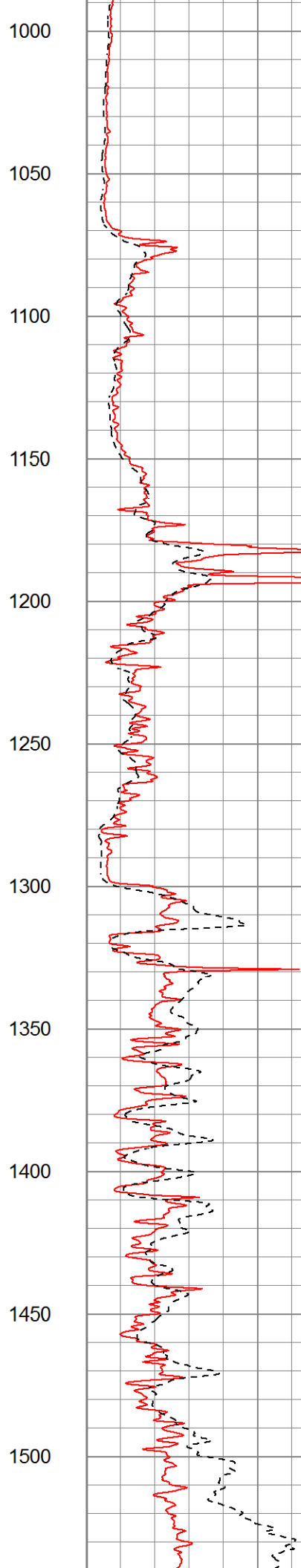
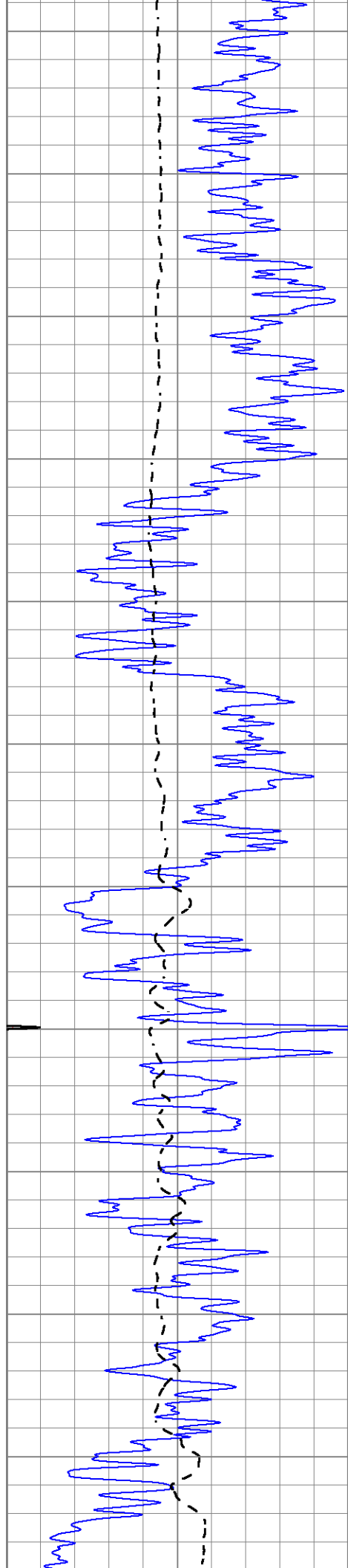


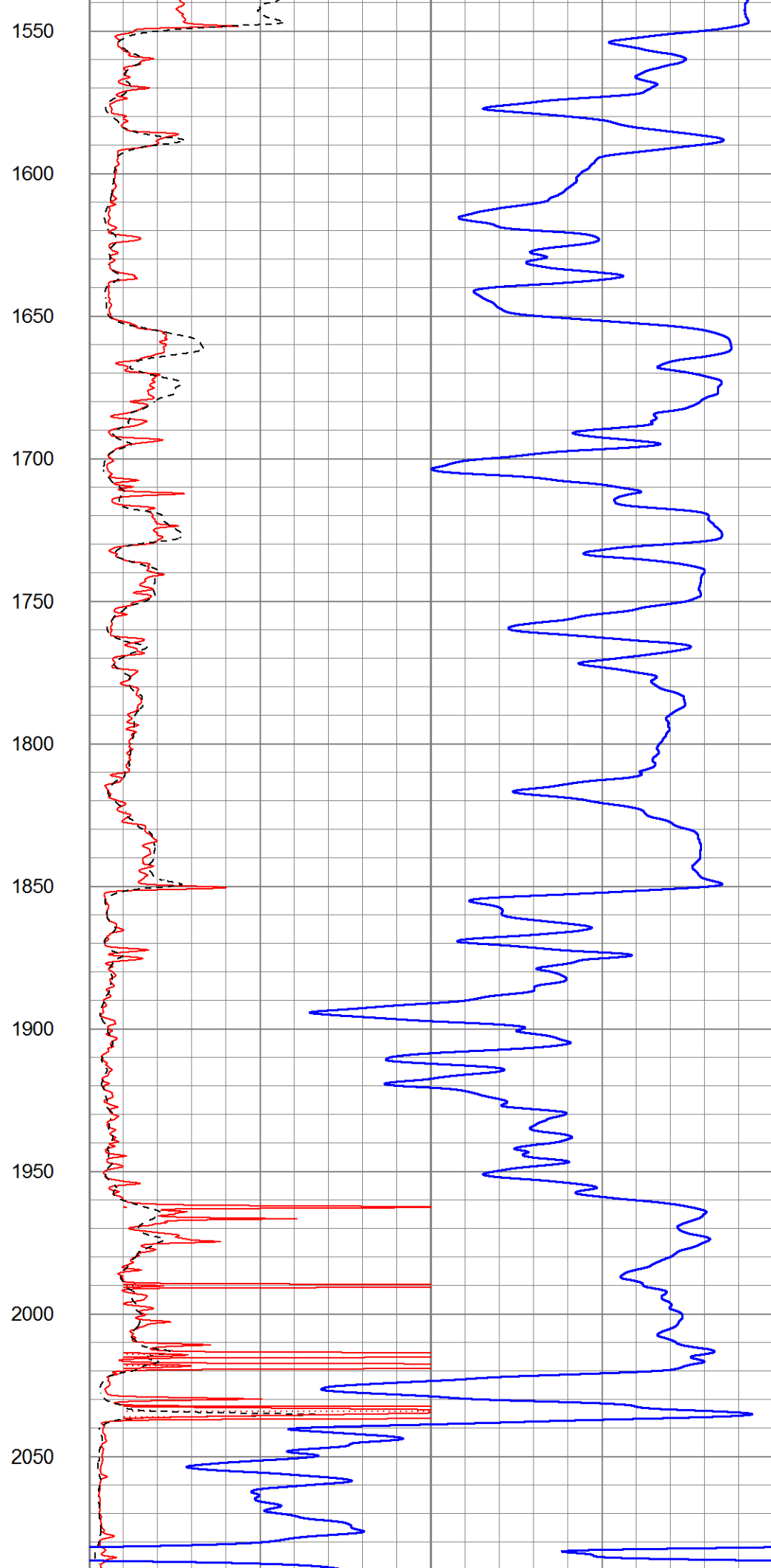
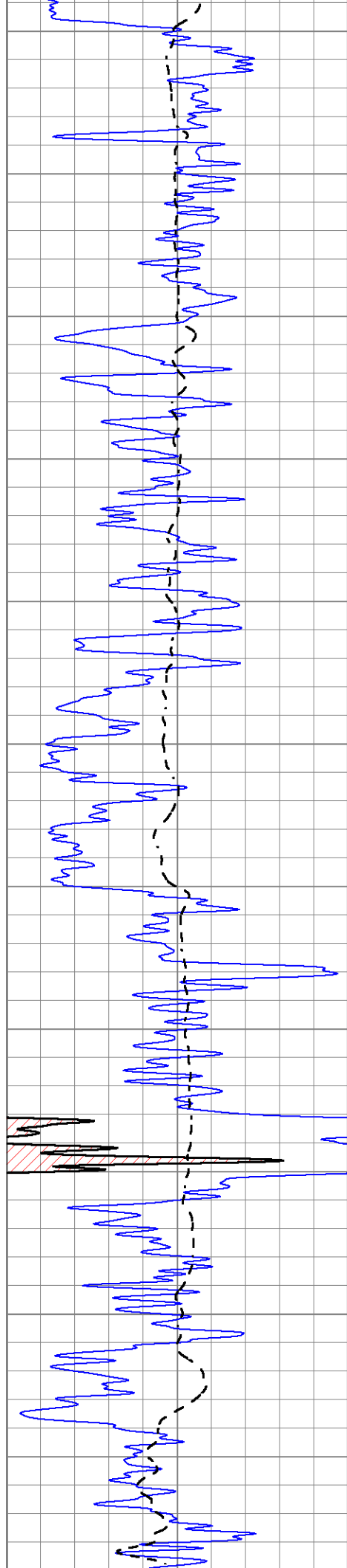
MAIN PASS

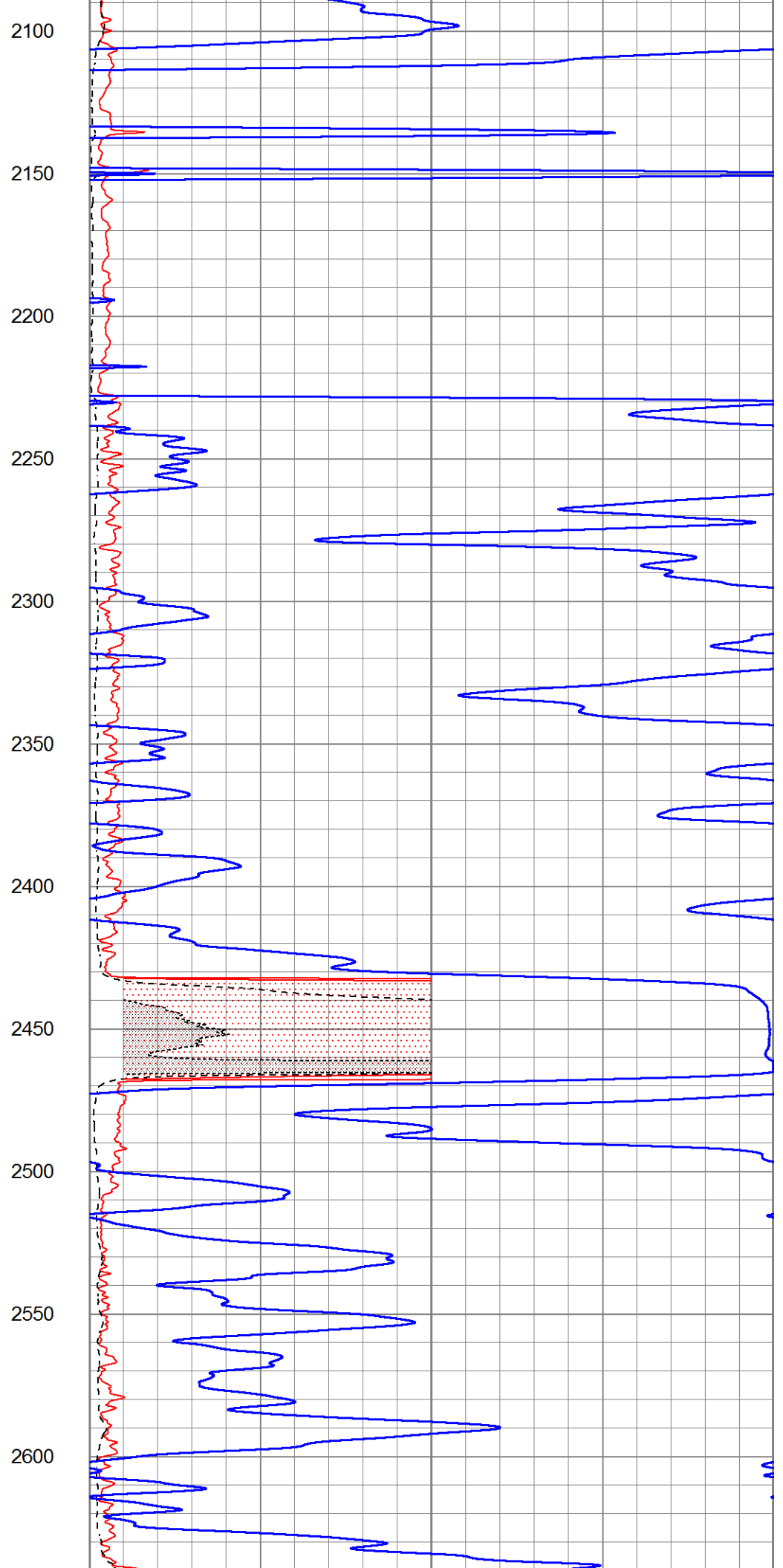
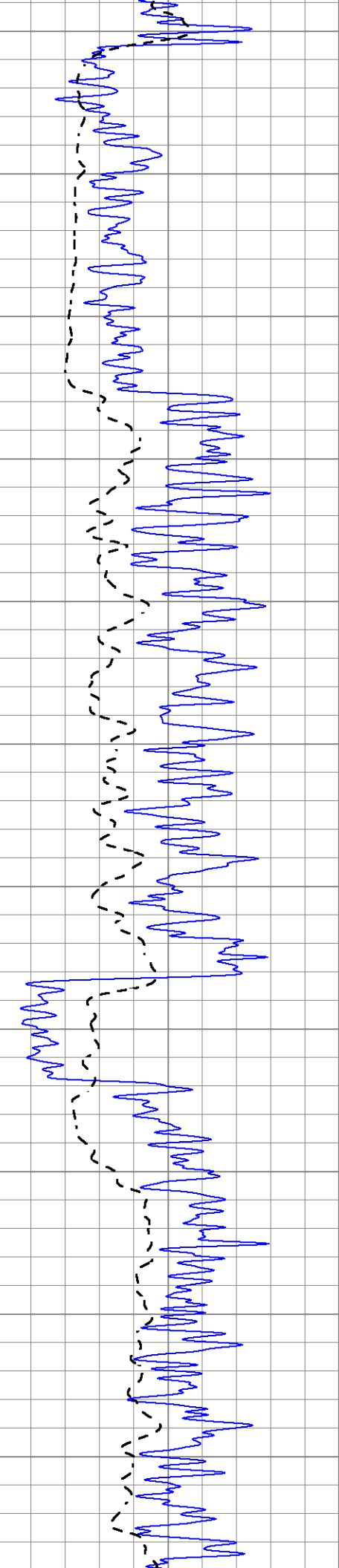
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-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500

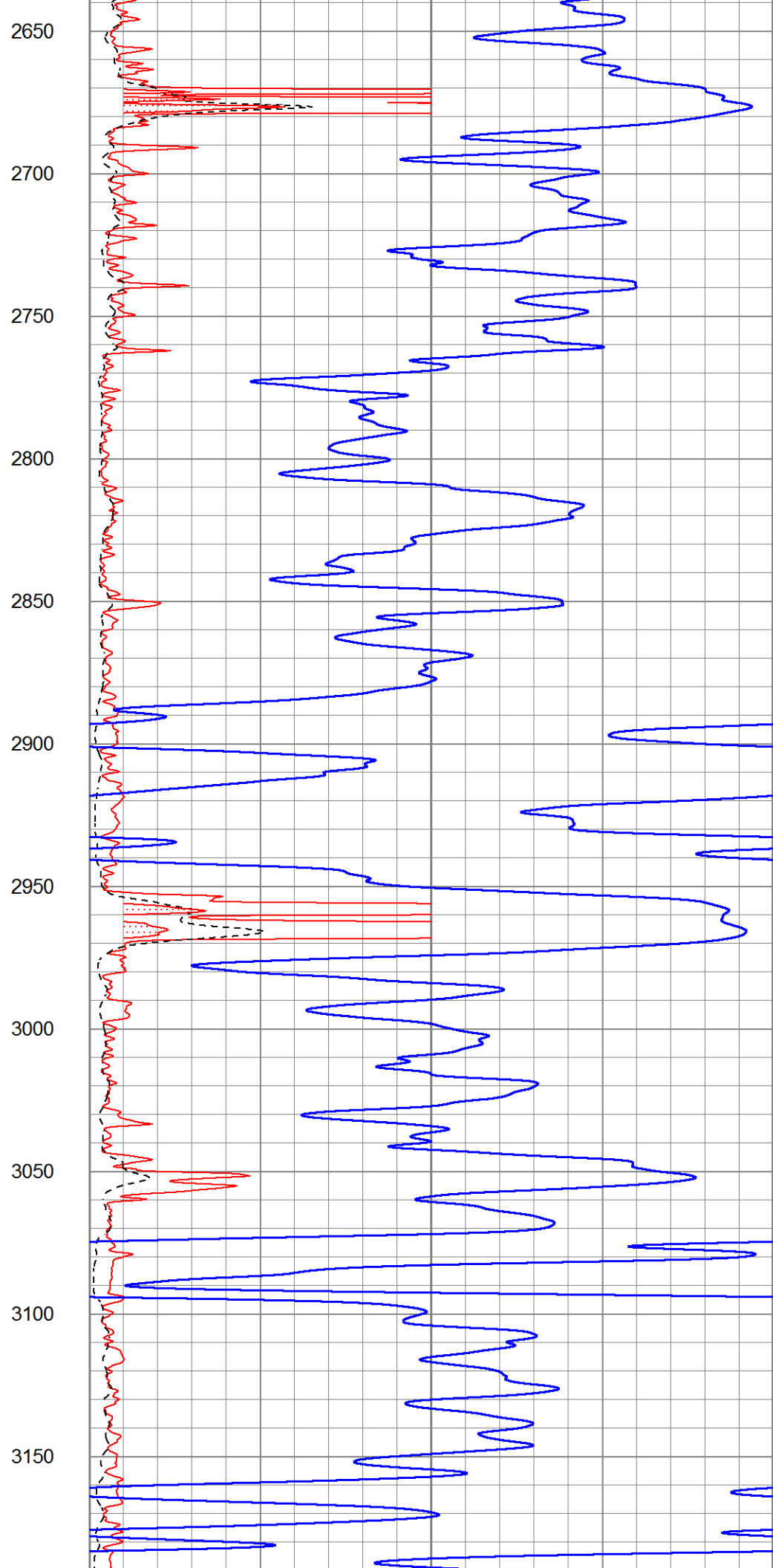
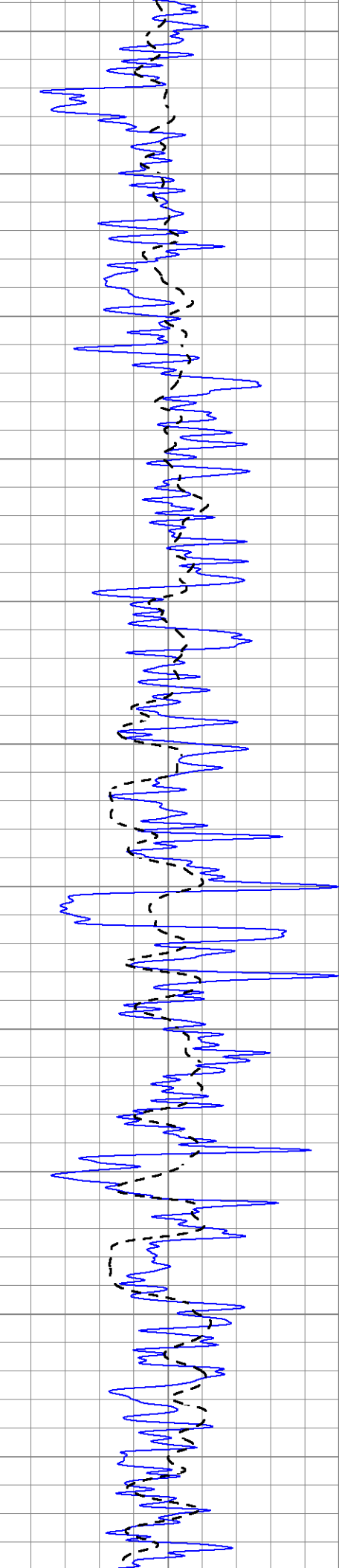


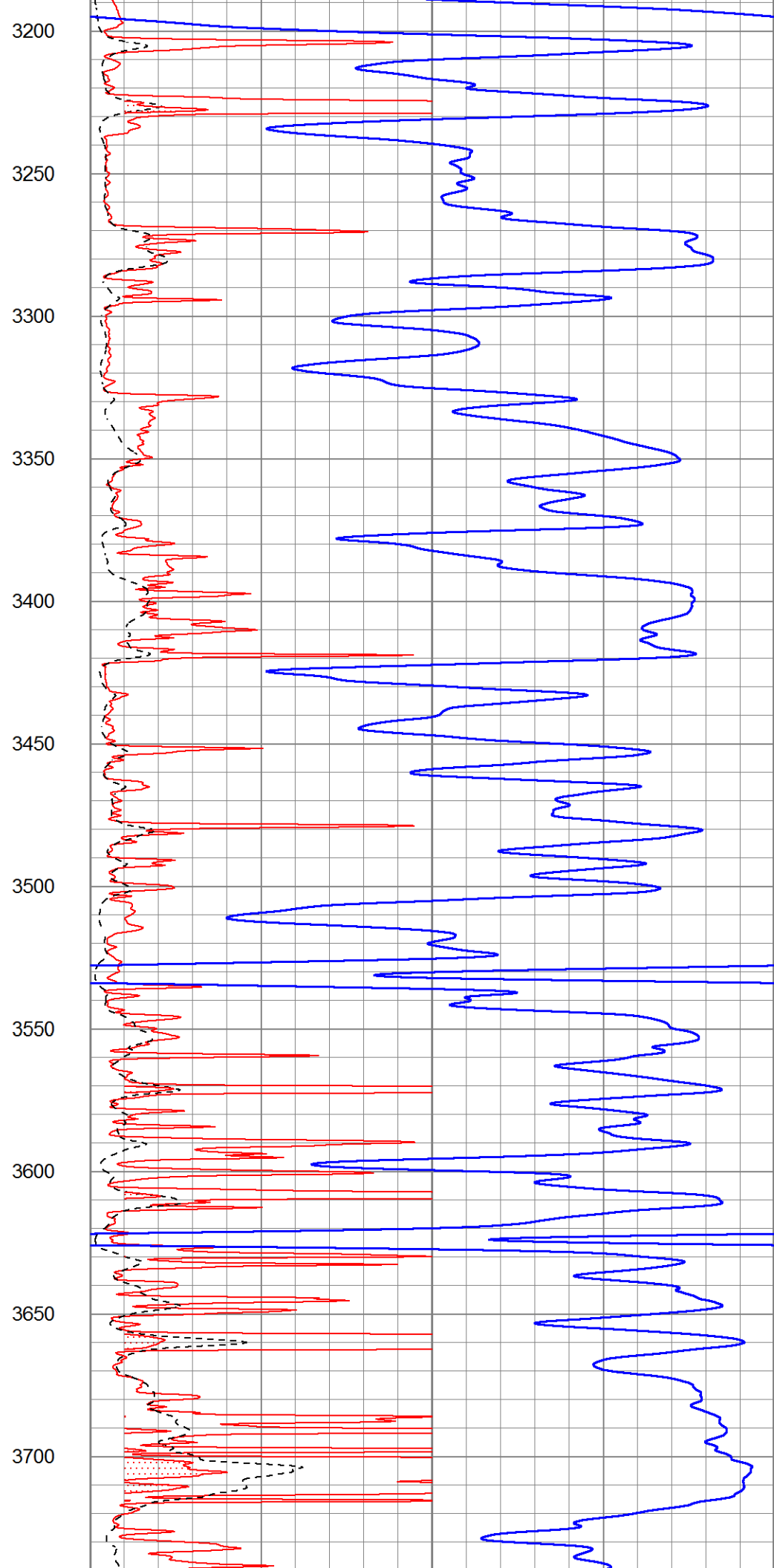
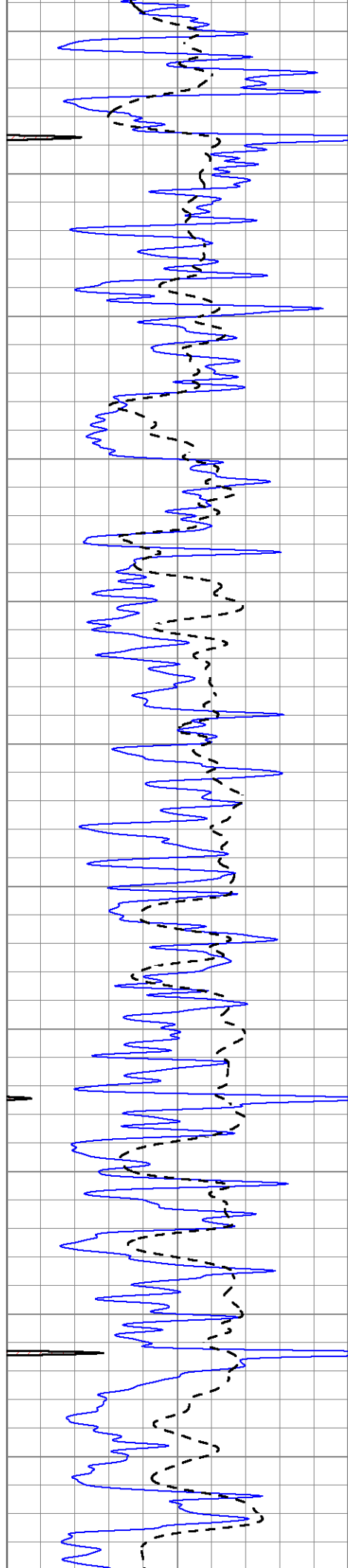


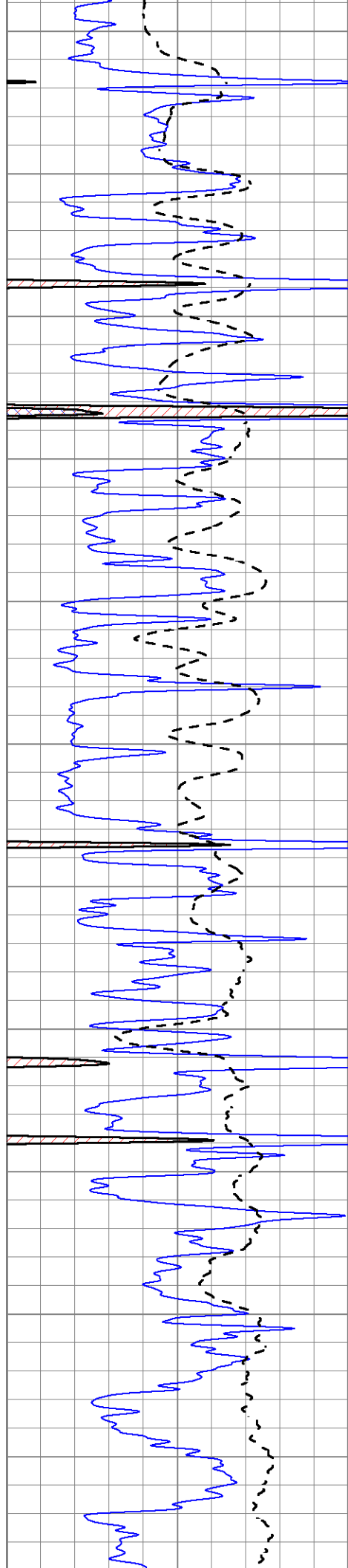












3750

3800

3850

3900

3950

4000

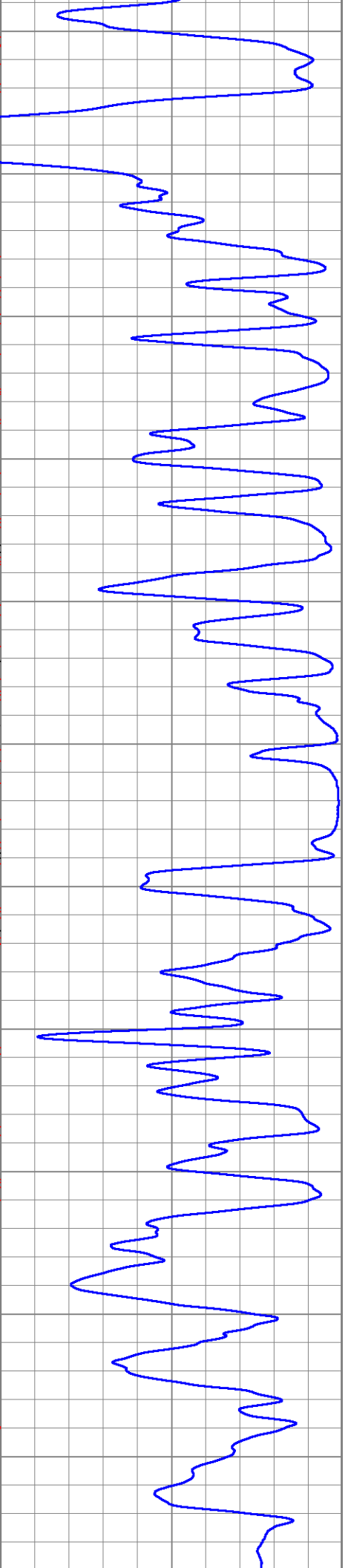
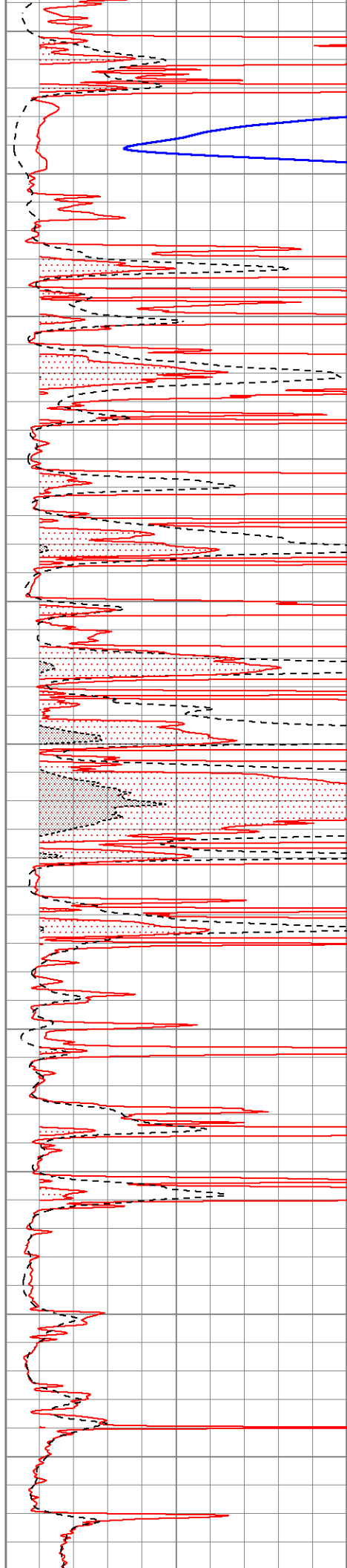
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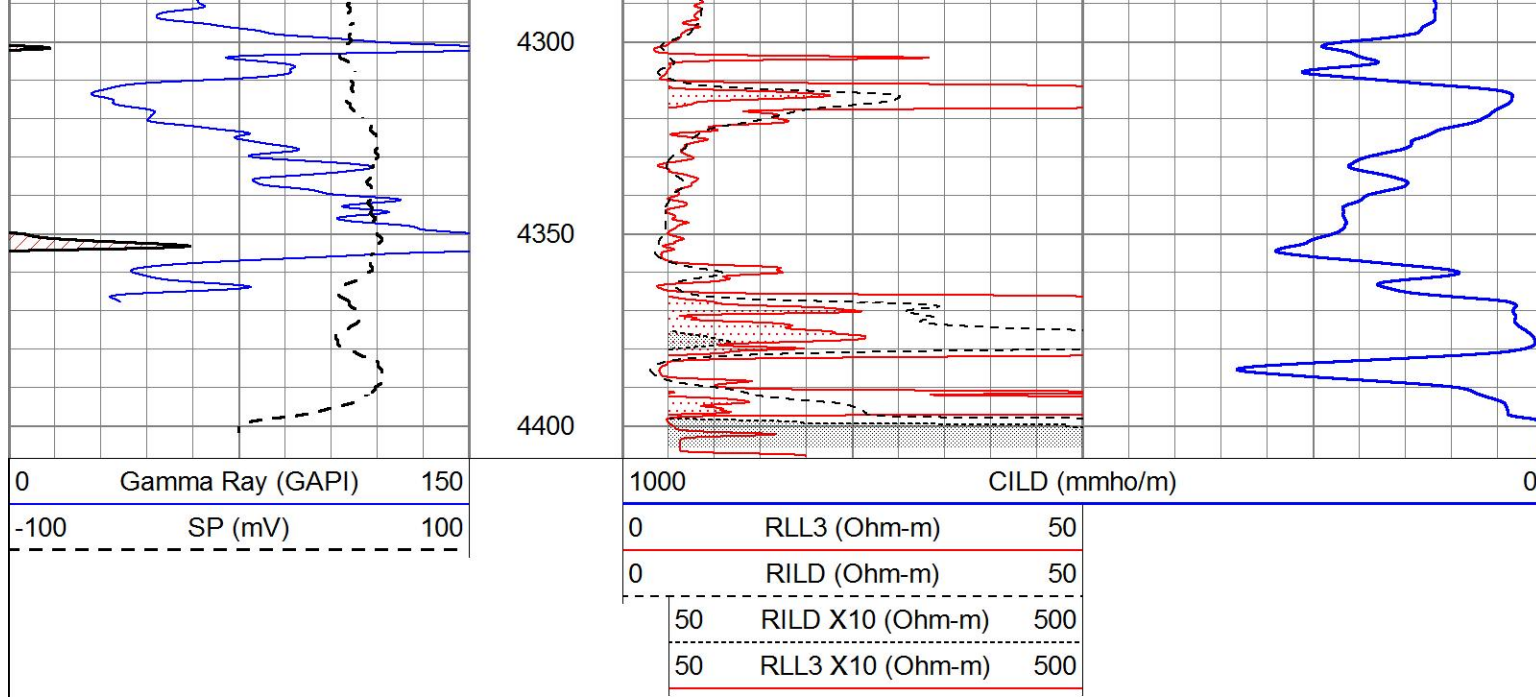
4100

4150

4200

4250

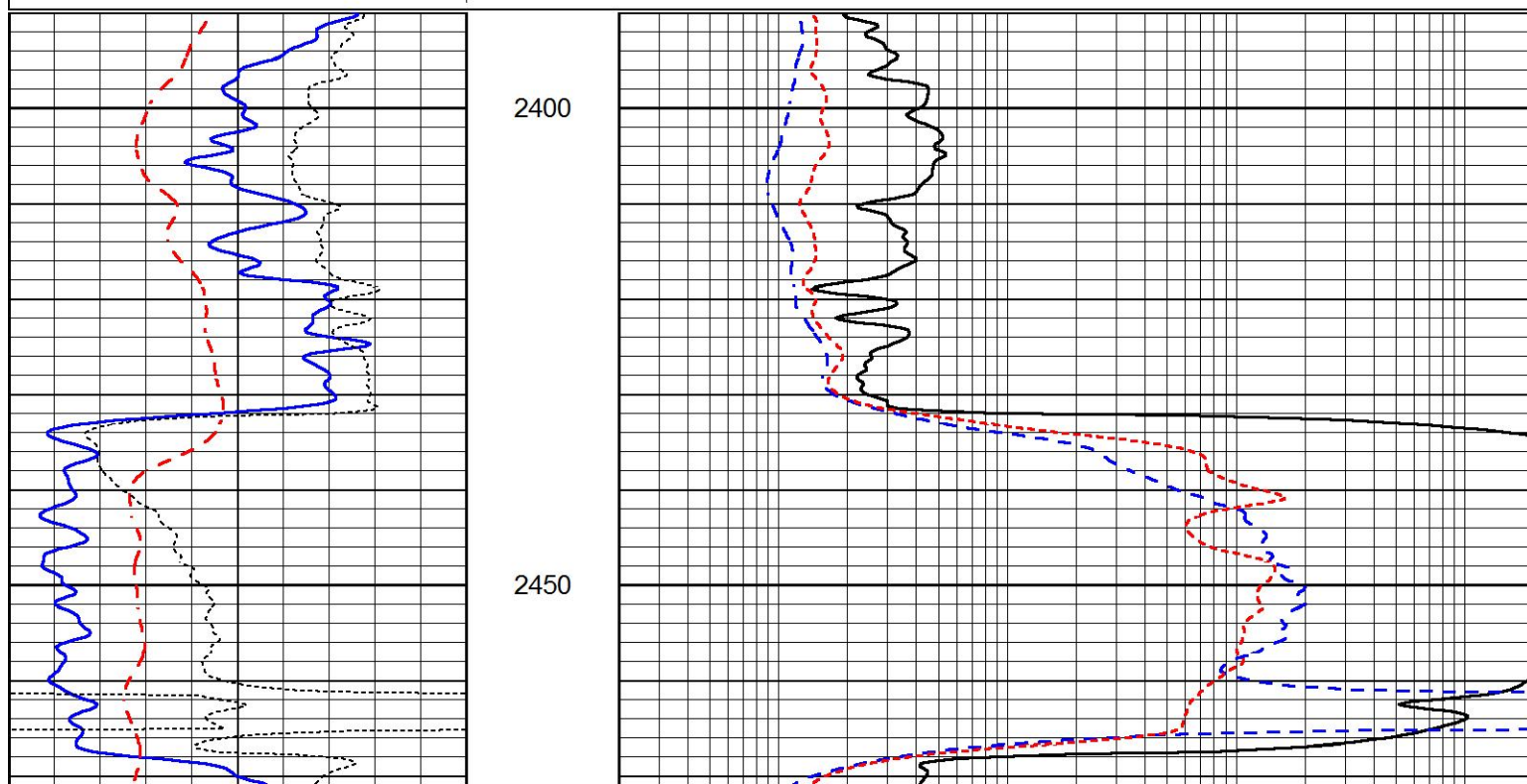


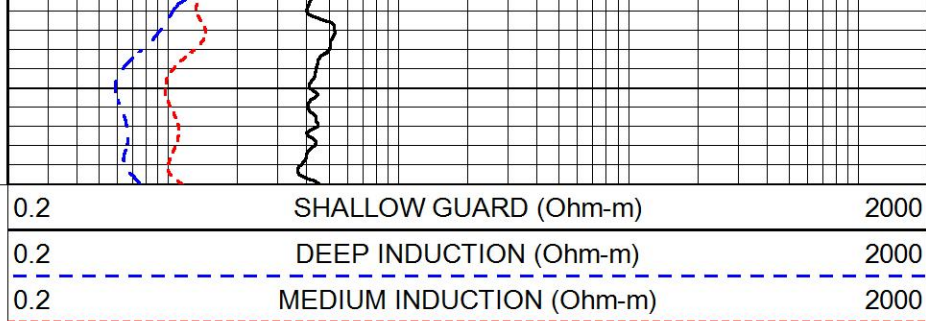
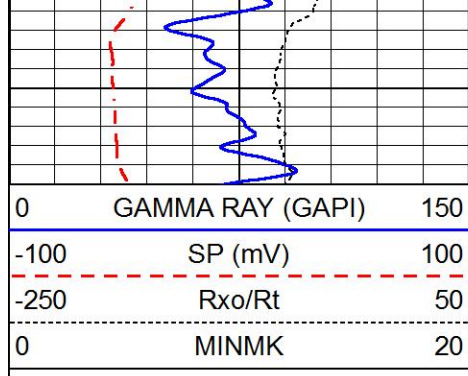


MAIN PASS

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Presentation Format _dil
Dataset Creation Tue Apr 20 05:49:33 2021
Charted by Depth in Feet scaled 1:240

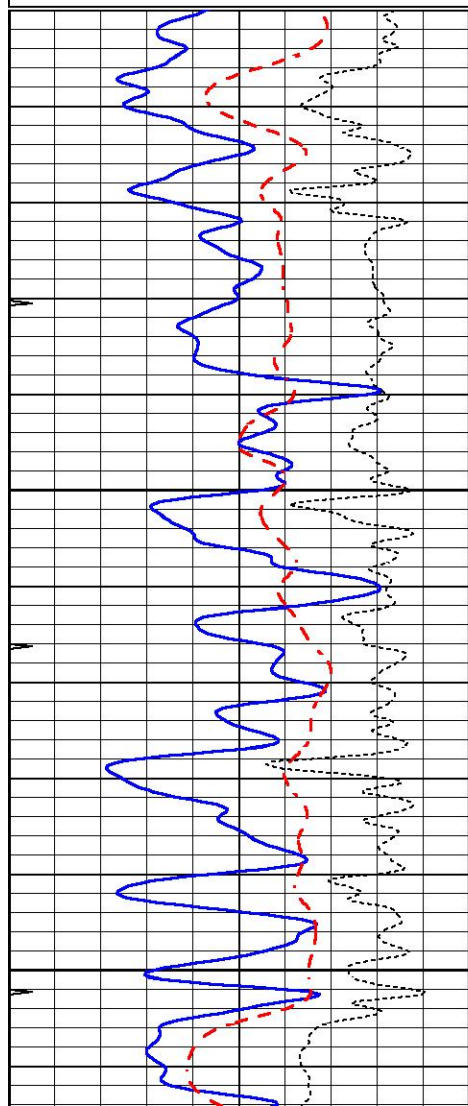
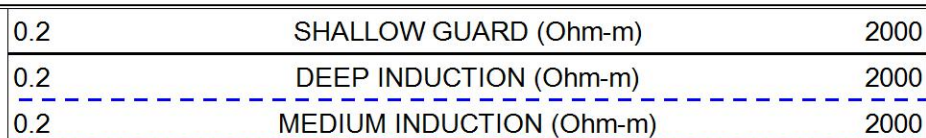
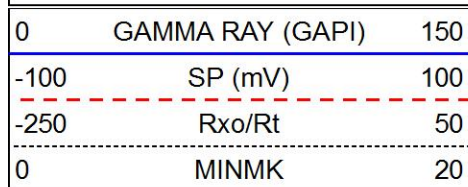
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			





MAIN PASS

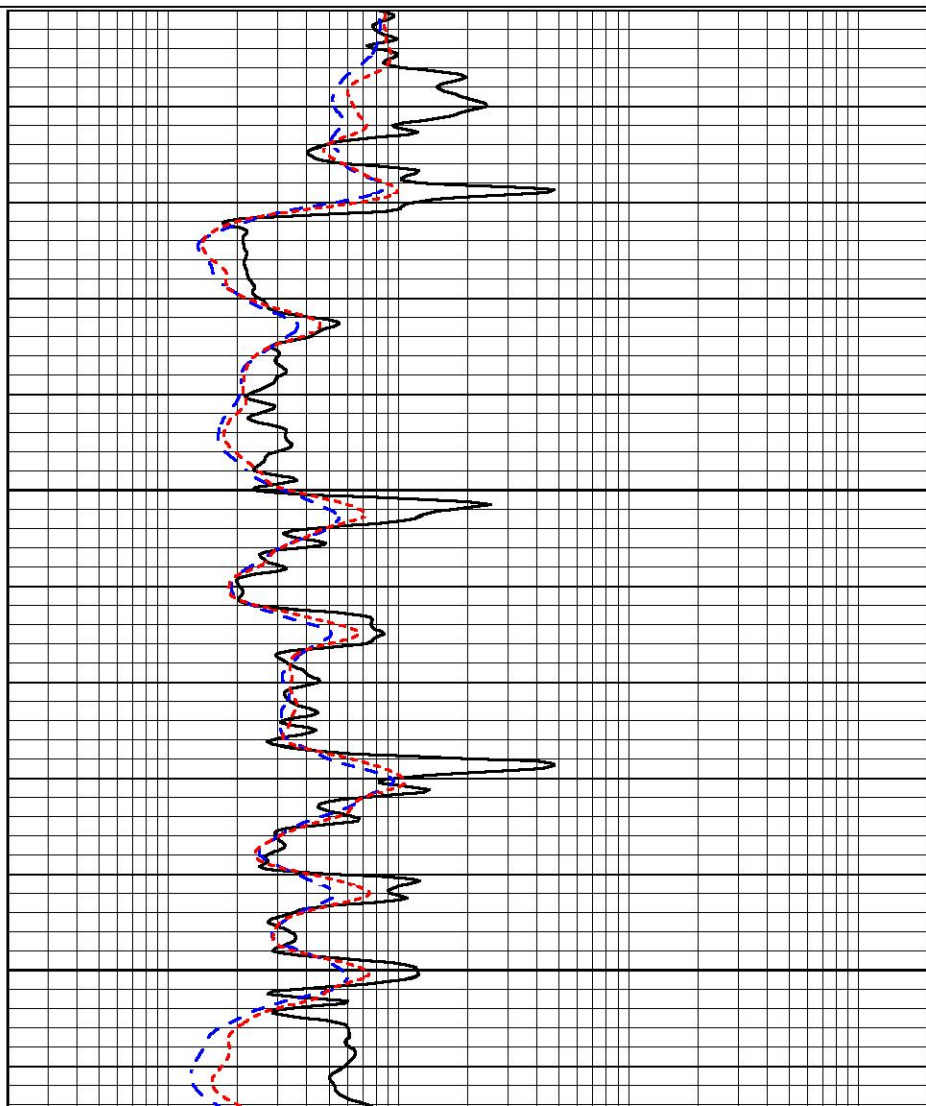
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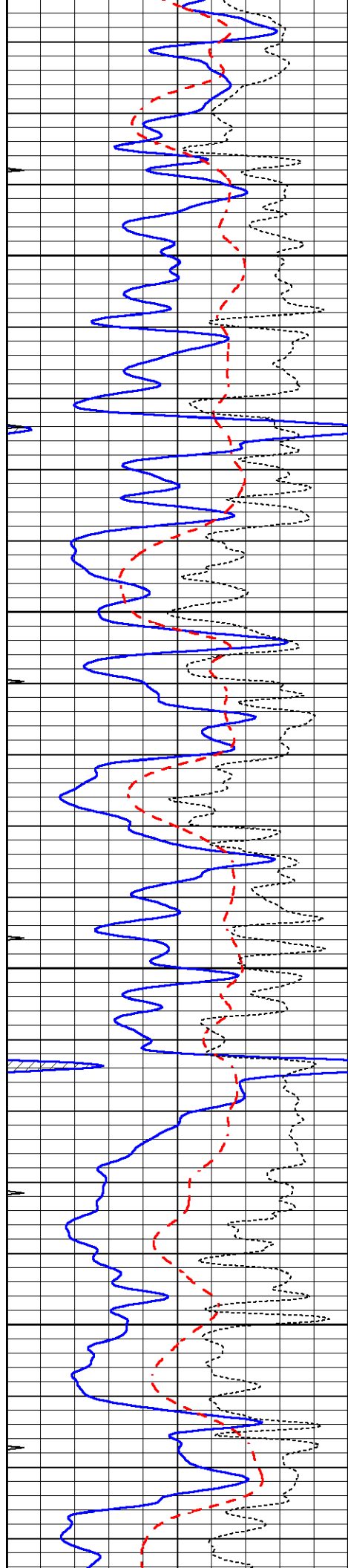


3400

3450

3500



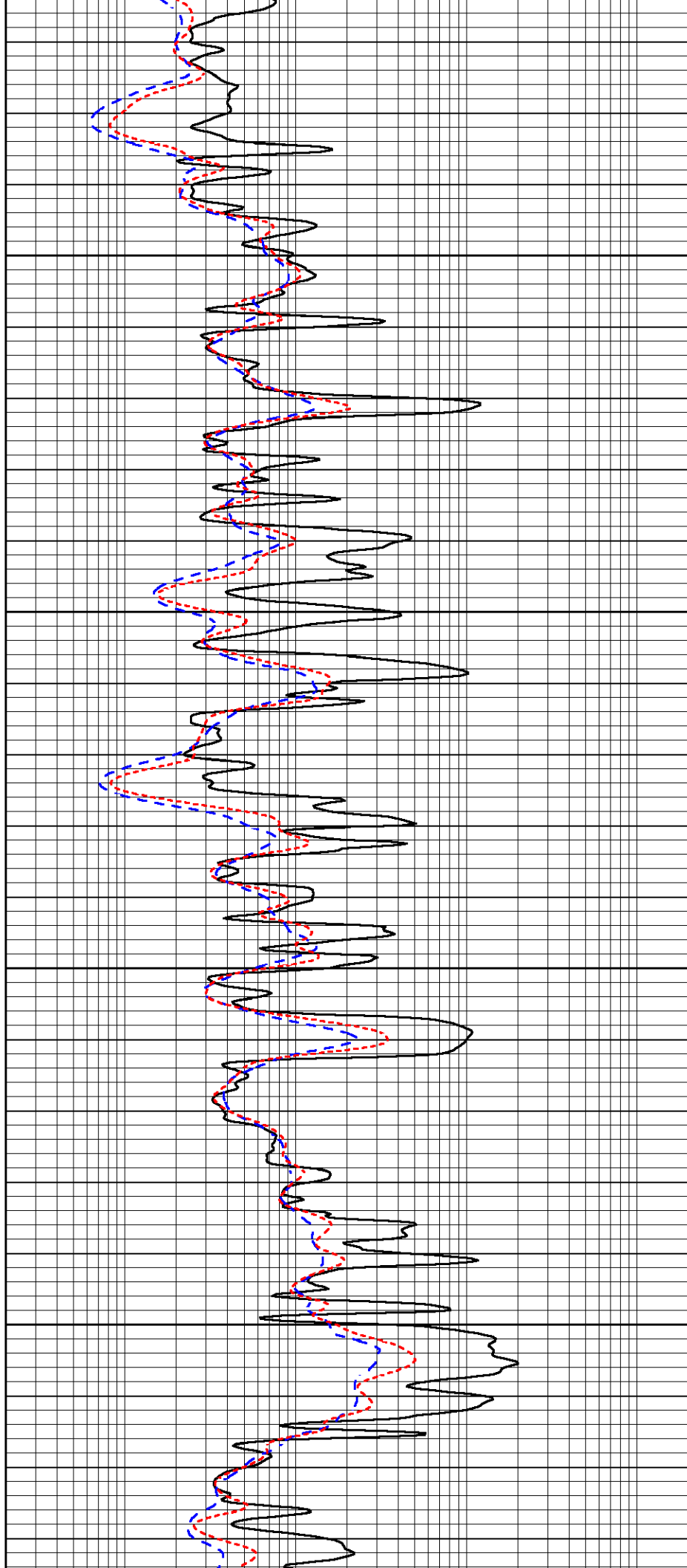


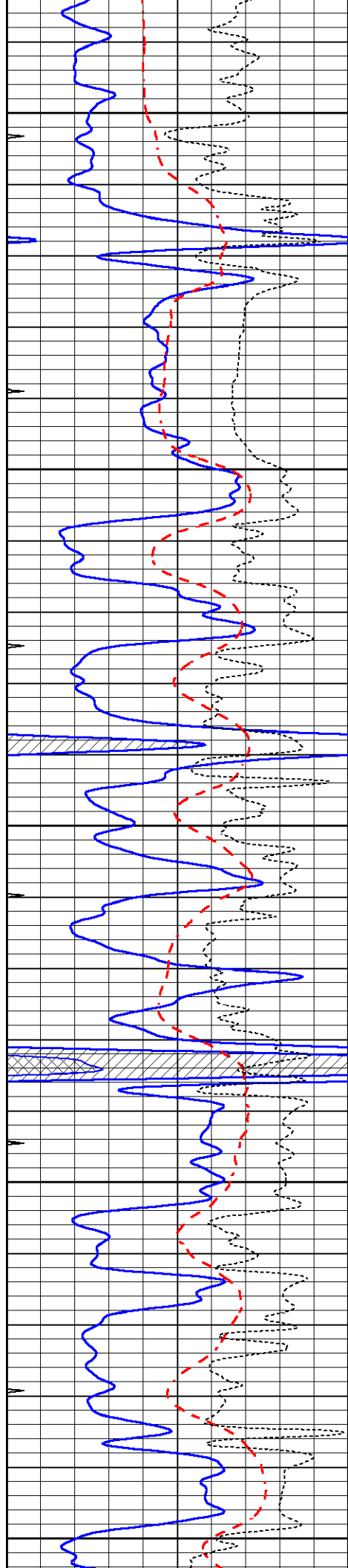
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3600

3650

3700





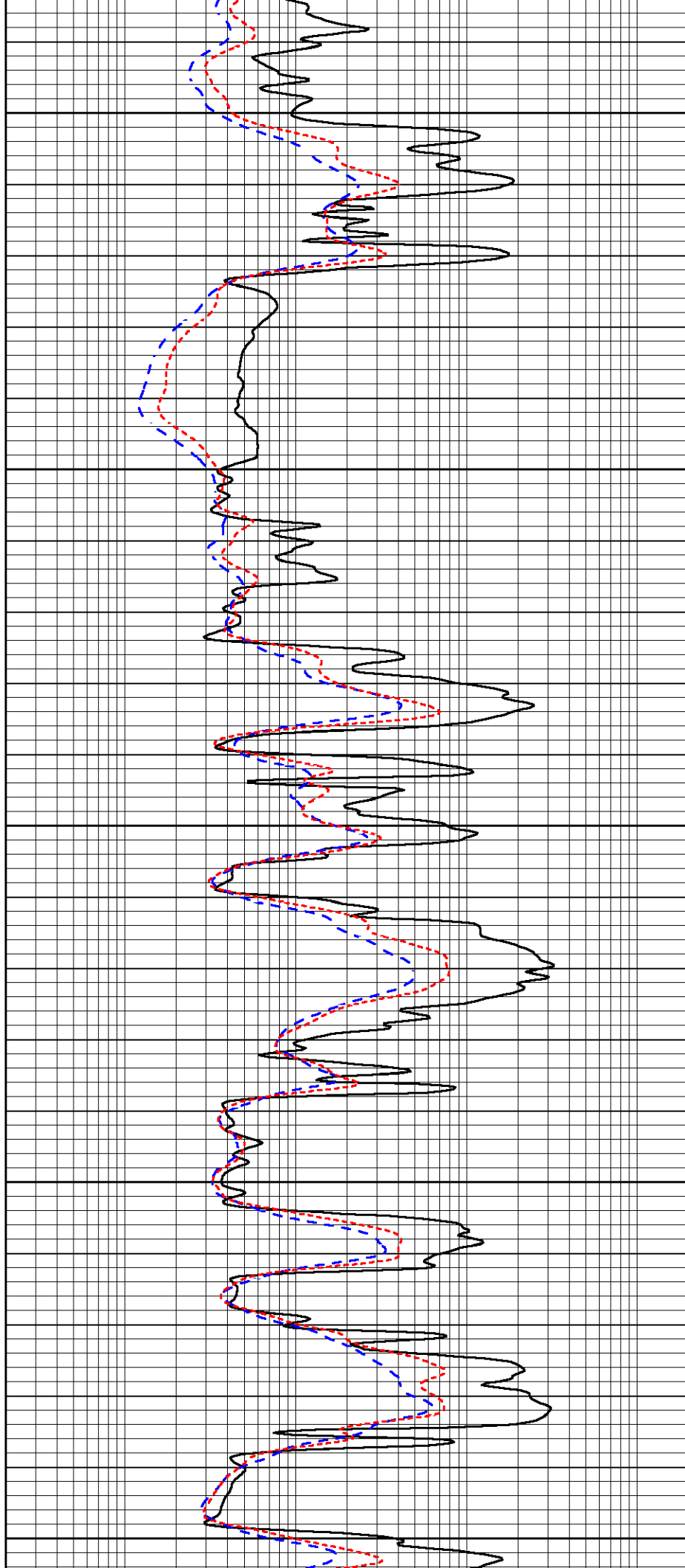
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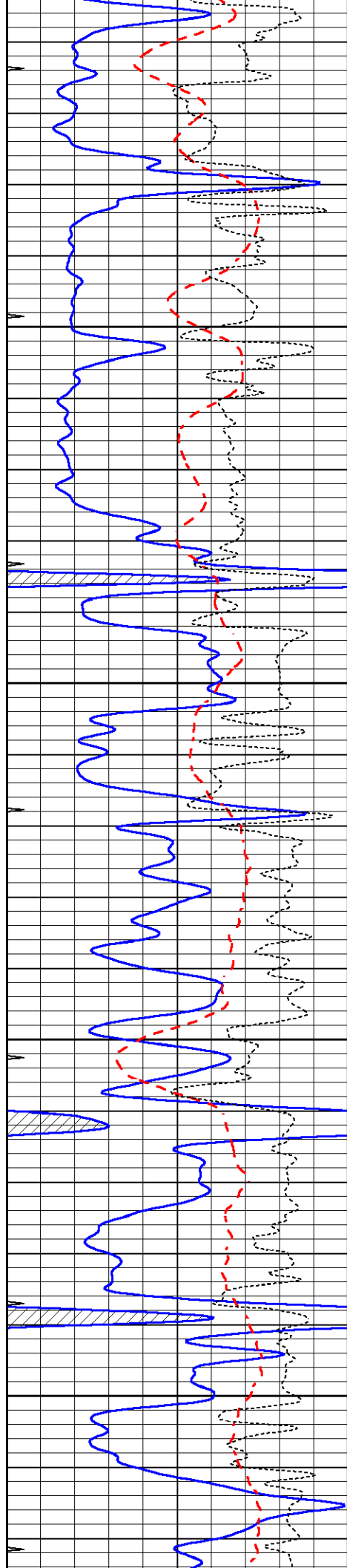
3800

3850

3900

3950



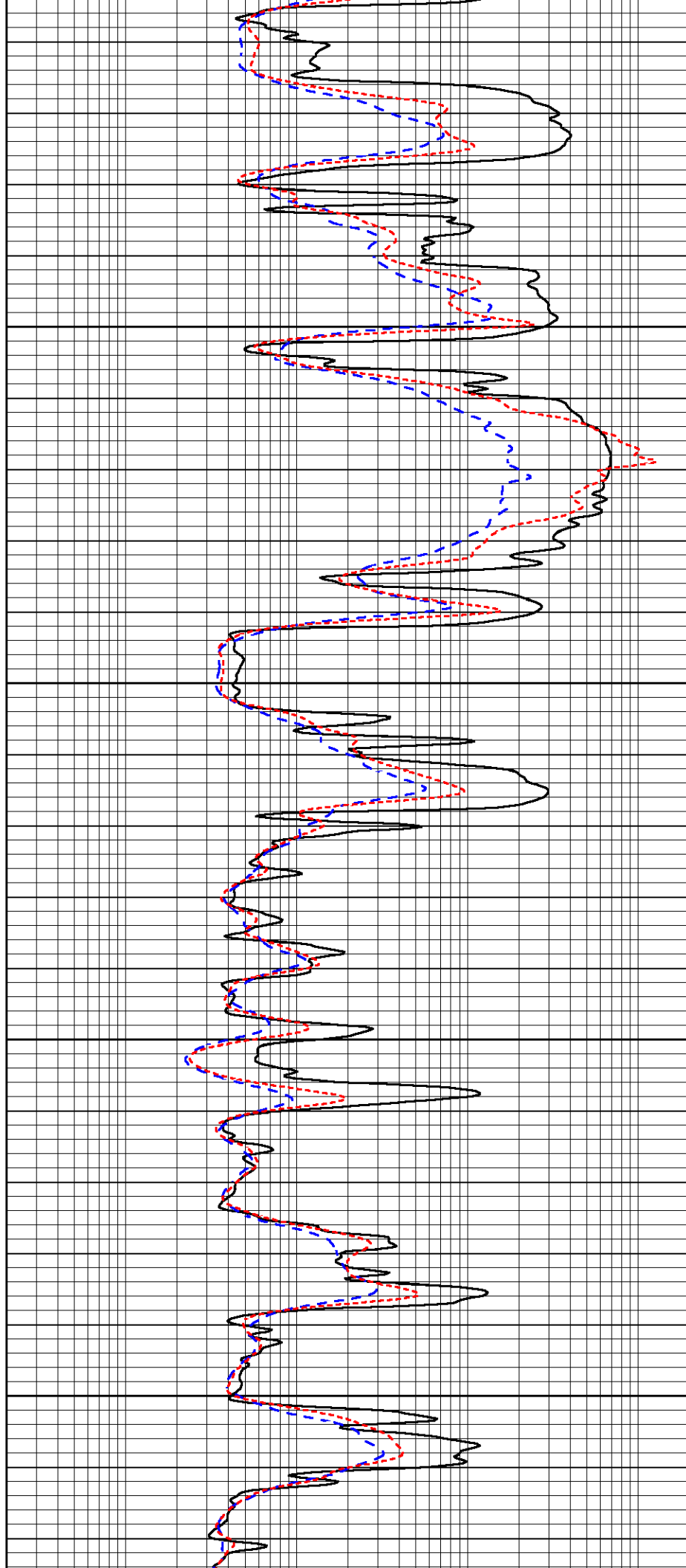


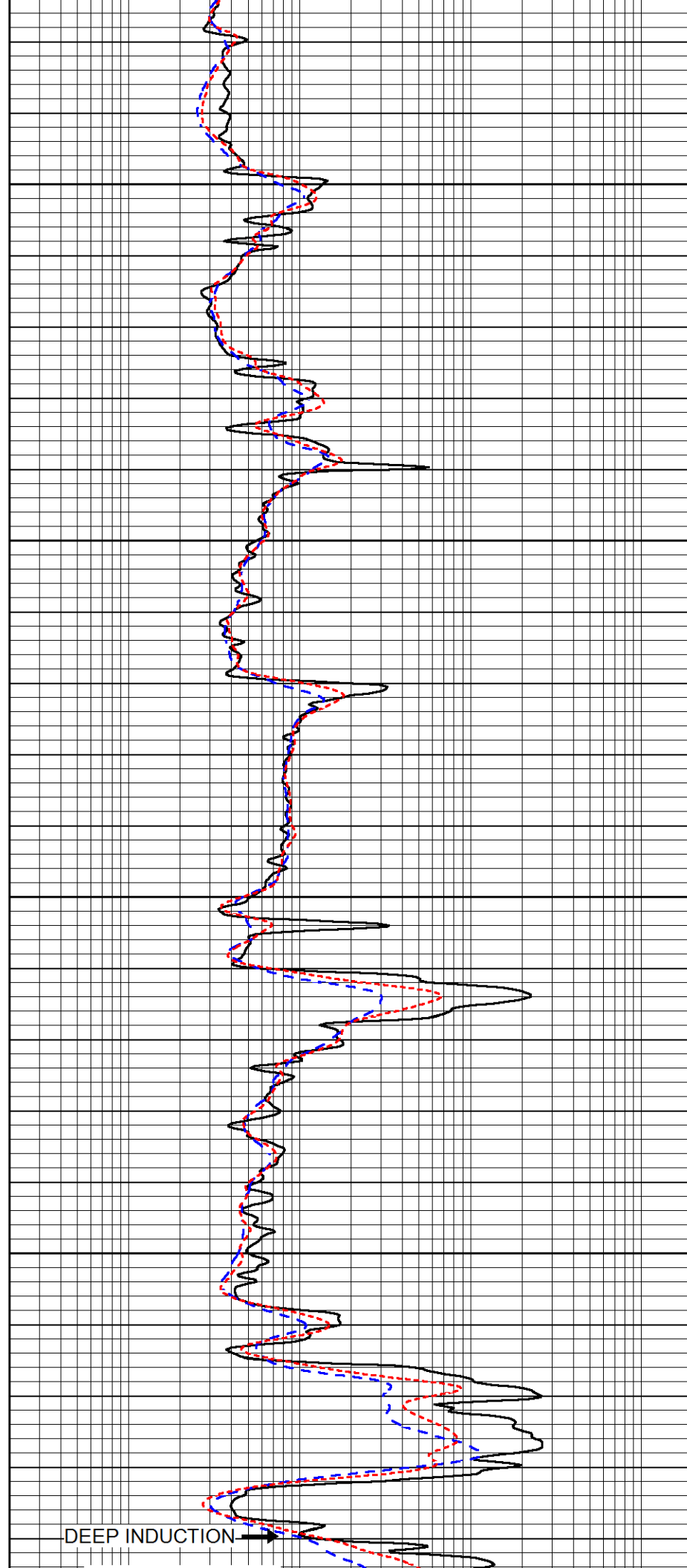
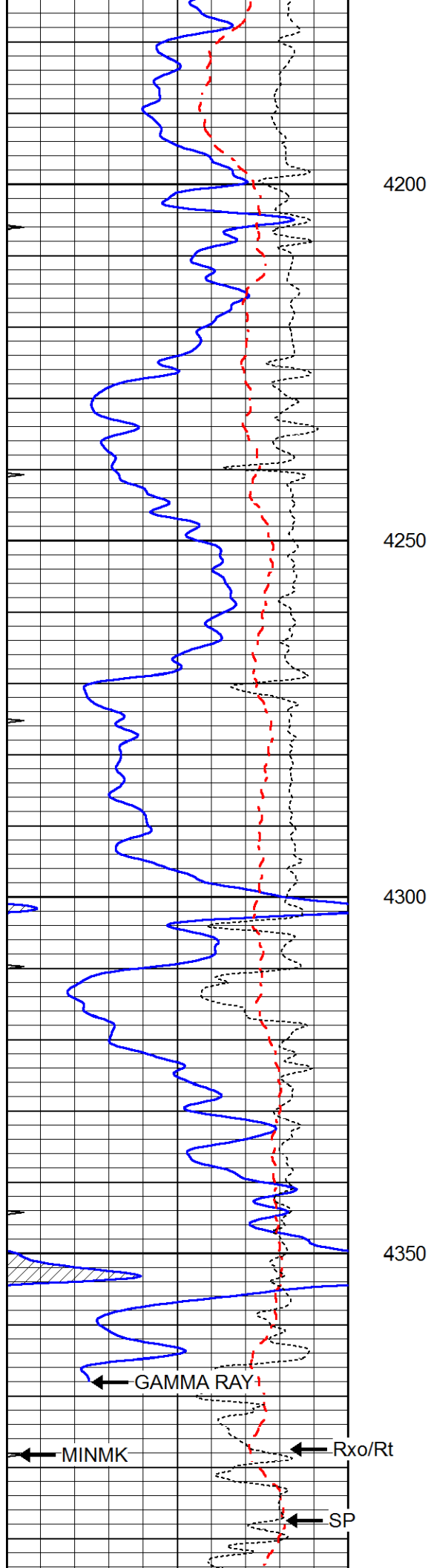
4000

4050

4100

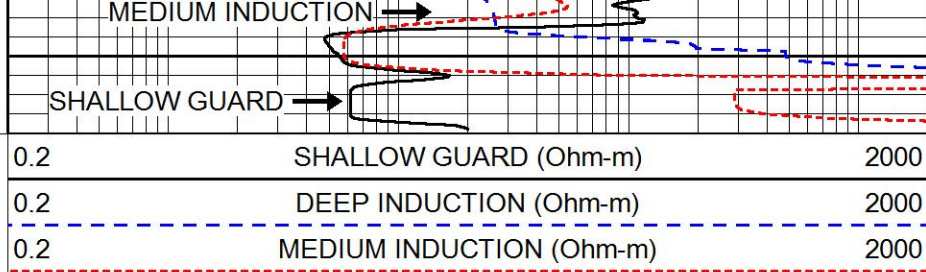
4150





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

4400
LTD 4406

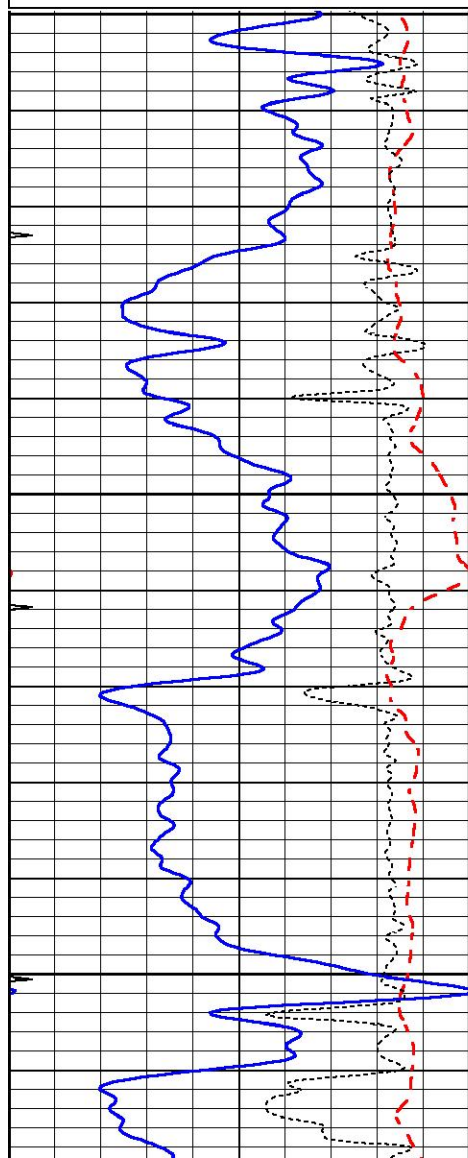


REPEAT SECTION

Database File 5430ddn.db
Dataset Pathname pass2.1
Presentation Format _dil
Dataset Creation Tue Apr 20 05:54:33 2021
Charted by Depth in Feet scaled 1:240

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

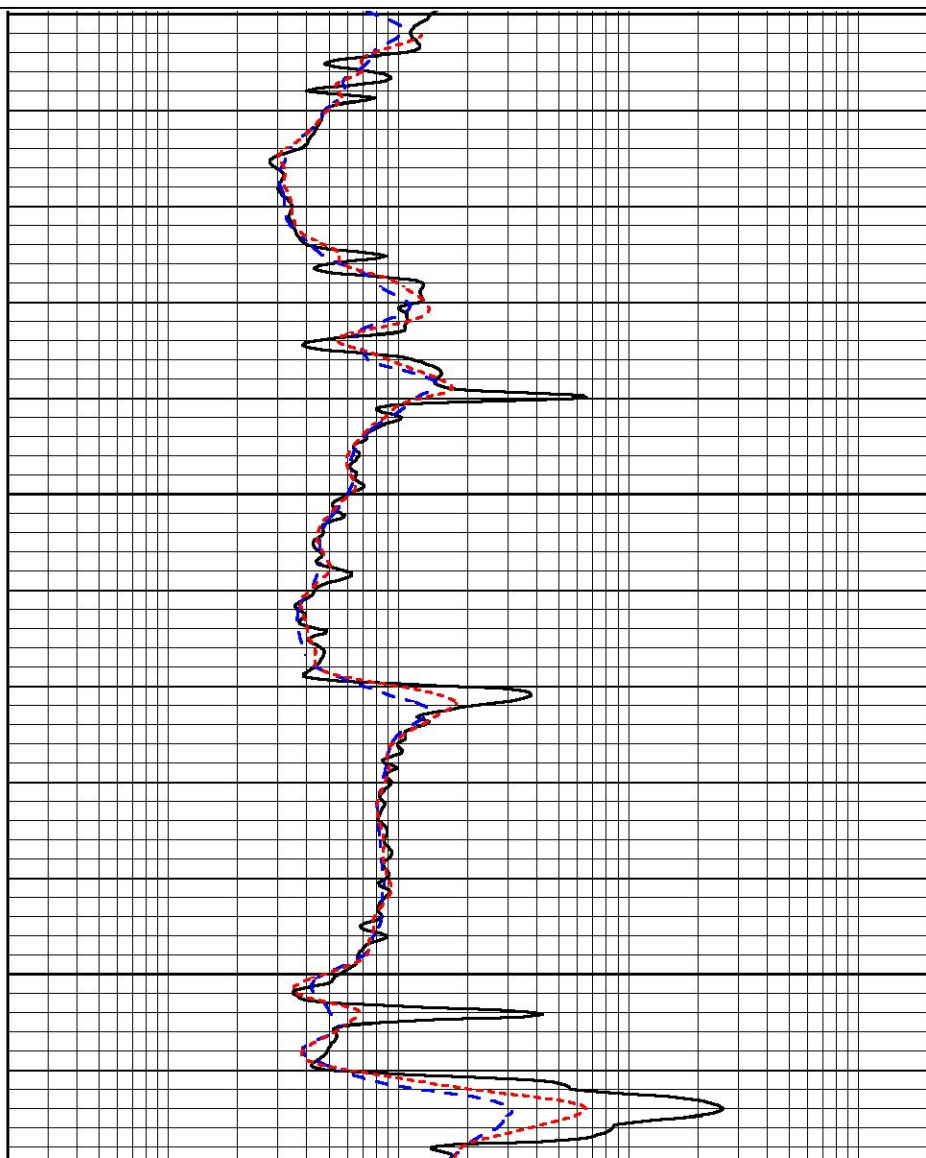
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

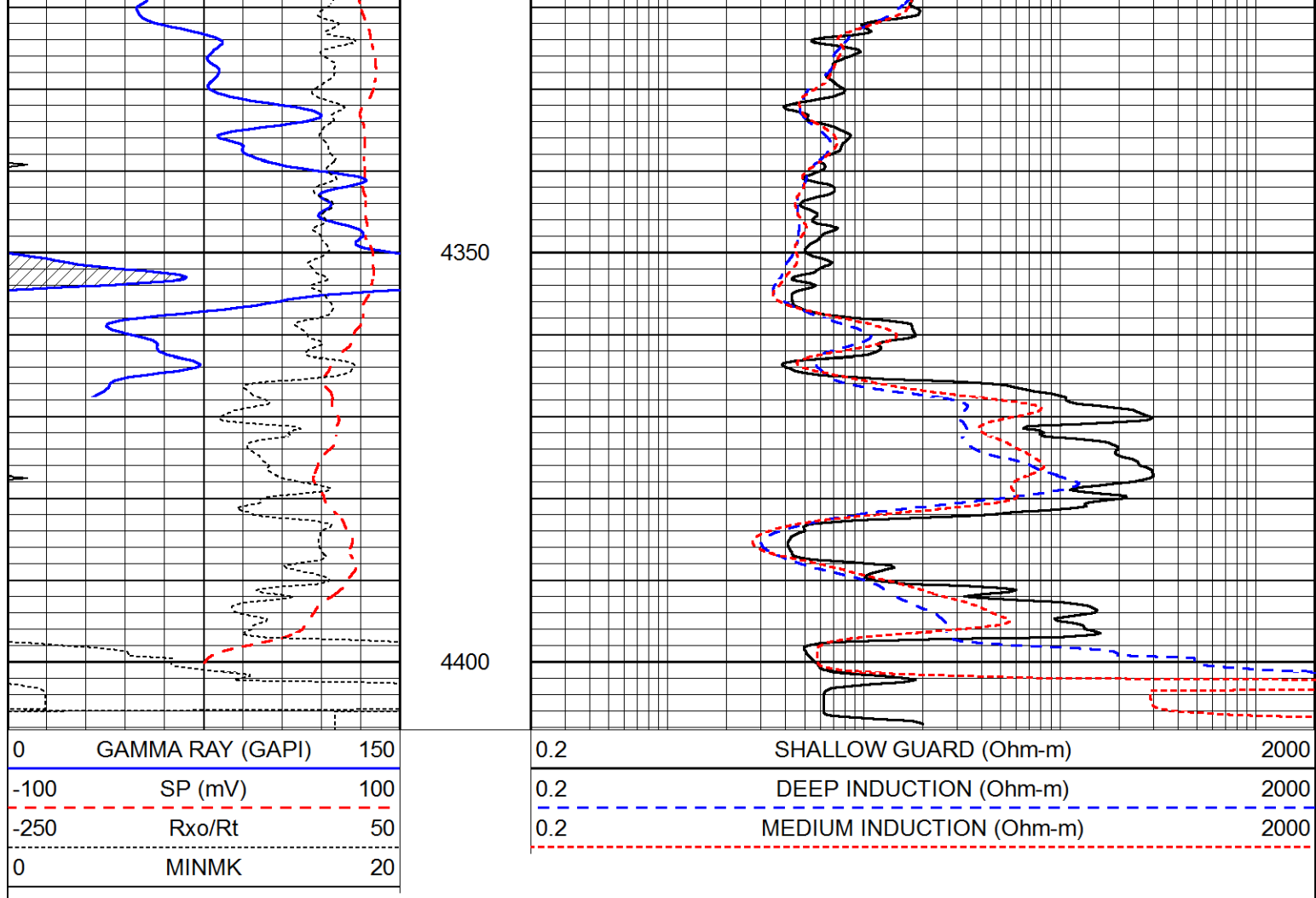


4200

4250

4300





Calibration Report									
Database File	5430ddn.db								
Dataset Pathname	pass2.1								
Dataset Creation	Tue Apr 20 05:54:33 2021								
Dual Induction Calibration Report									
Serial-Model:			PROBE8-DILG						
Surface Cal Performed:			Mon Sep 10 14:28:35 2018						
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	590.000	-12.000	
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				

Compensated Neutron Calibration Report								
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Serial Number:			61					
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Serial Number: GR6
Tool Model: OPEN

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
Gamma Ray Calibration Report						
Serial Number:		GR6				
Tool Model:		OPEN				
Performed:		Thu Jul 30 20:04:35 2020				
Calibrator Value:		150.0	GAPI			
Background Reading:		0.0	cps			
Calibrator Reading:		276.0	cps			
Sensitivity:		0.7500	GAPI/cps			