



DUAL INDUCTION LOG

Company	RL INVESTMENT, LLC.	Company	RL INVESTMENT, LLC.
Well	SMOKEY #1	Well	SMOKEY #1
Field	UNNAMED	Field	UNNAMED
County	LOGAN	County	LOGAN
State	KANSAS	State	KANSAS
Location:	API # : 15-109-21627-0000 2305' FNL & 2015' FWL	Other Services CDL/CNL MEL	
Permanent Datum	SEC 29 TWP 14S RGE 33W	Elevation	
Log Measured From	GROUND LEVEL	K.B. 2934	
Drilling Measured From	KELLY BUSHING 7' A.G.L. KELLY BUSHING	D.F. 2932	
		G.L. 2927	
Date	10/05/21		
Run Number	ONE		
Depth Driller	4666		
Depth Logger	4665		
Bottom Logged Interval	4663		
Top Log Interval	00		
Casing Driller	8 5/8" @ 214		
Casing Logger	214		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2/67		
pH / Fluid Loss	9.1/10.5		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.4@ 65F		
Rmf @ Meas. Temp	.30@ 65F		
Rmc @ Meas. Temp	.48 @ 65F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.21 @ 122F	CHLORIDES 76000	
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	122F		
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

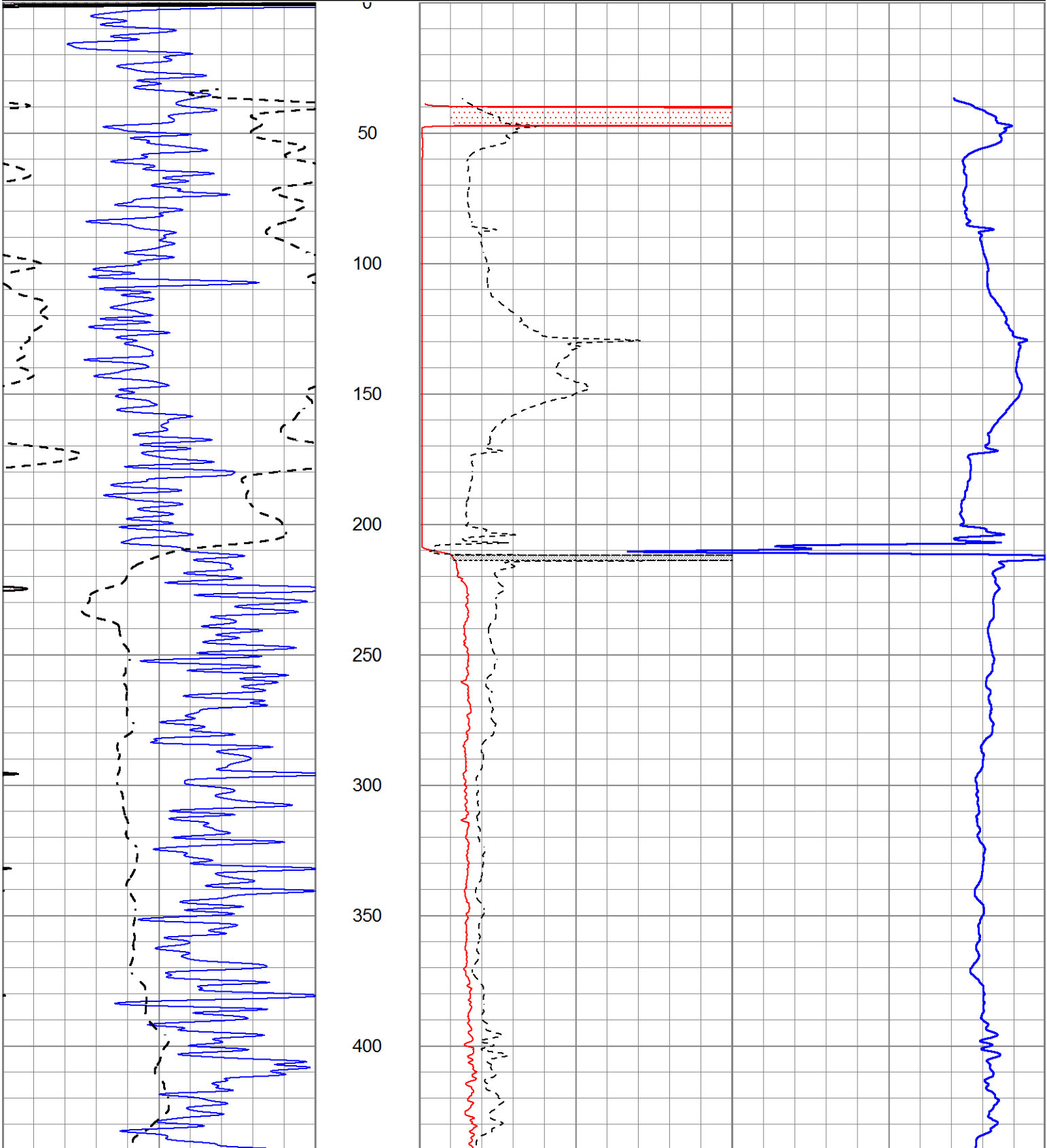
DIRECTIONS: MONUMENT SOUTH TO INDIAN RD., THEN 1/2 SOUTH, EAST INTO.

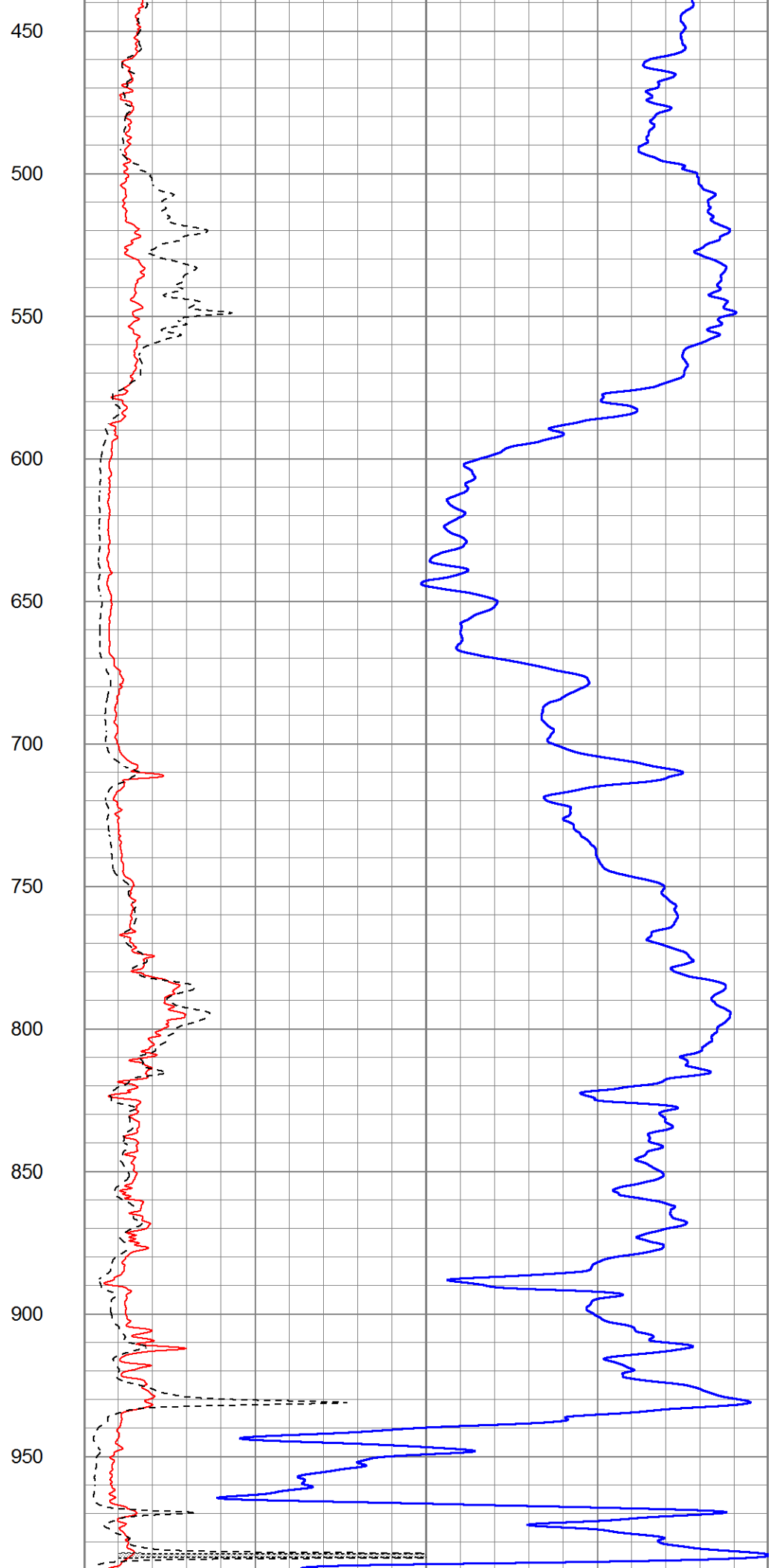
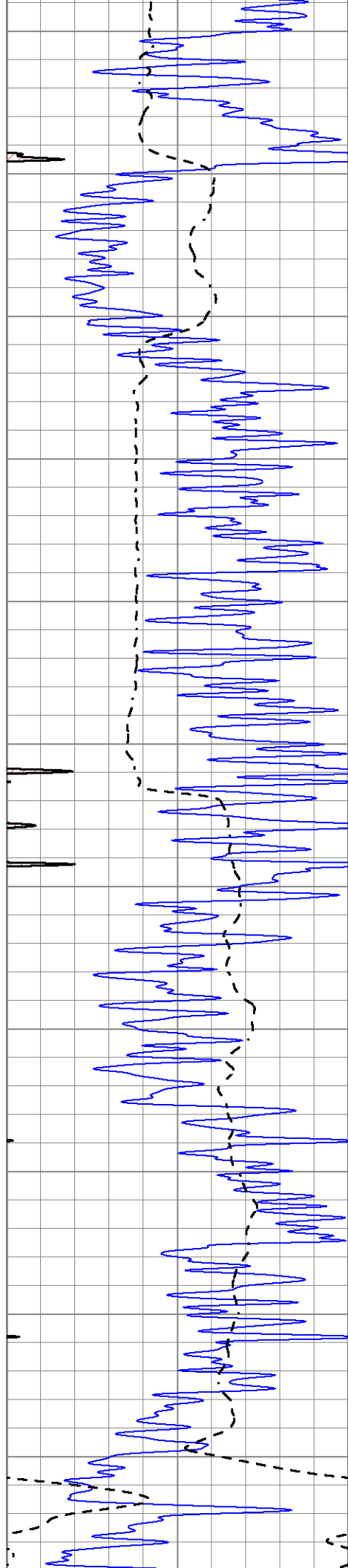


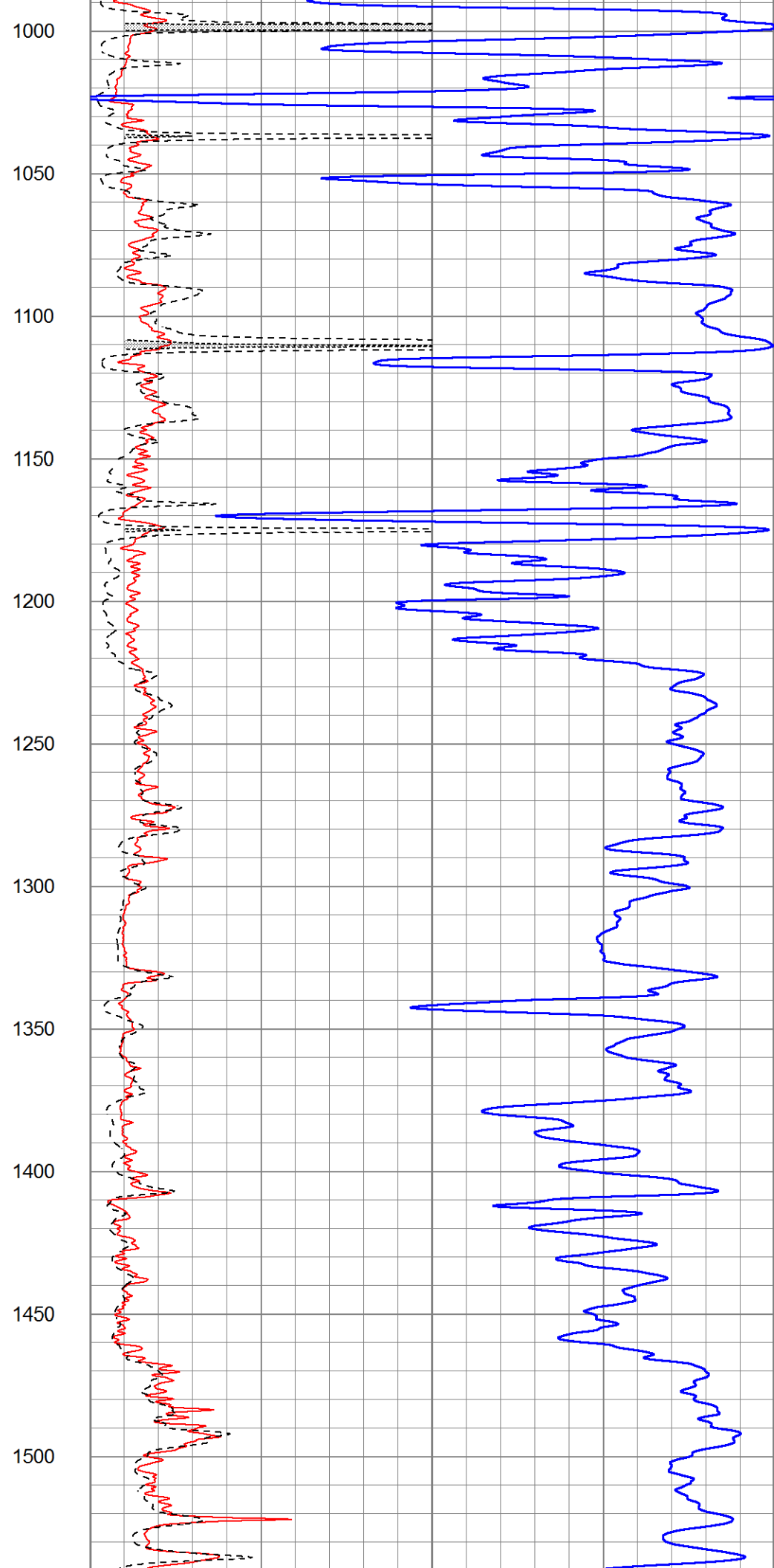
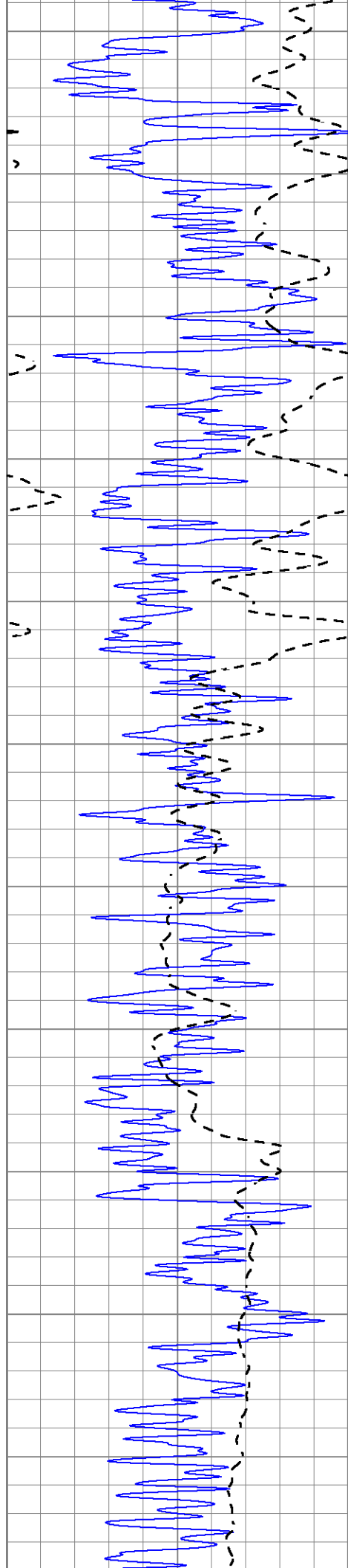
MAIN PASS

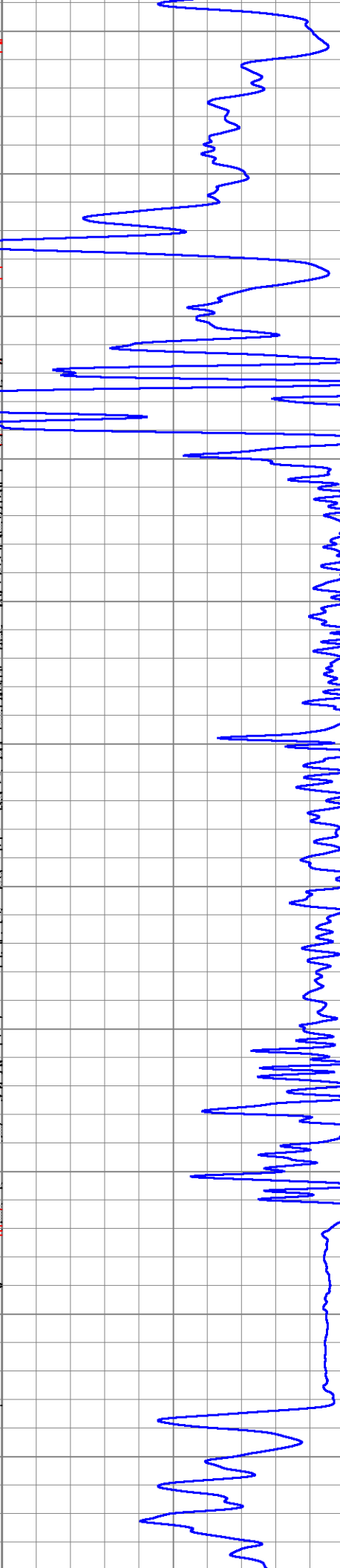
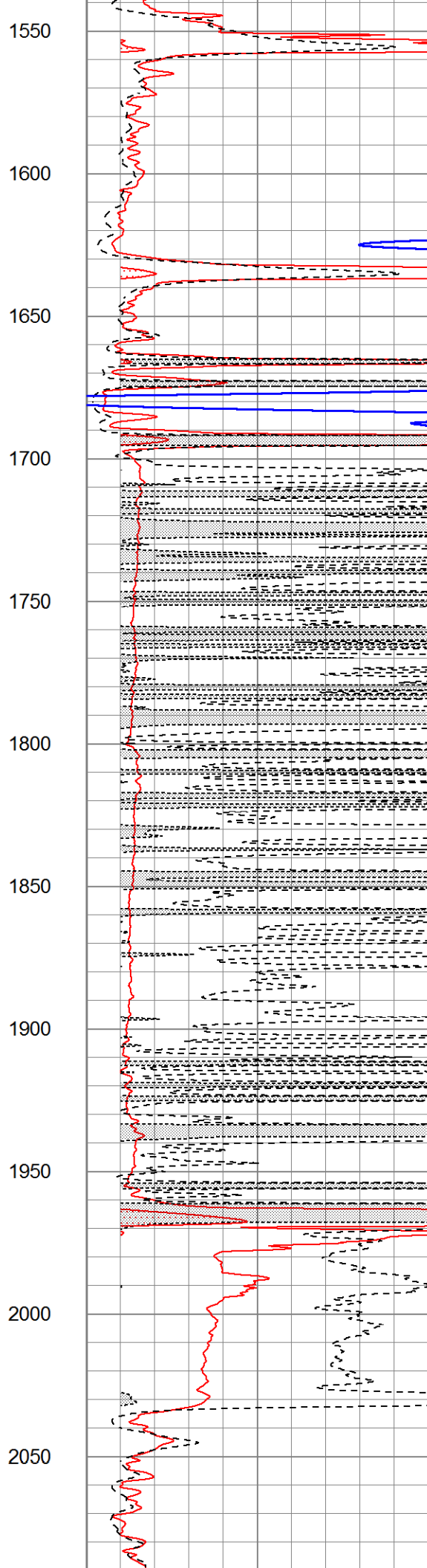
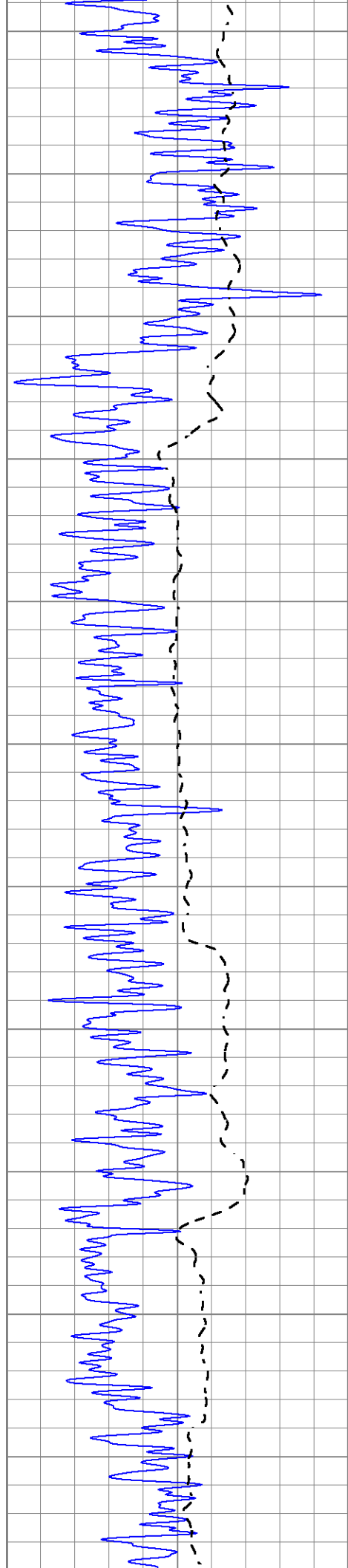
Database File	5880ddn.db
Dataset Pathname	pass4.1
Presentation Format	_dil2
Dataset Creation	Tue Oct 05 08:16:05 2021
Charted by	Depth in Feet scaled 1:600

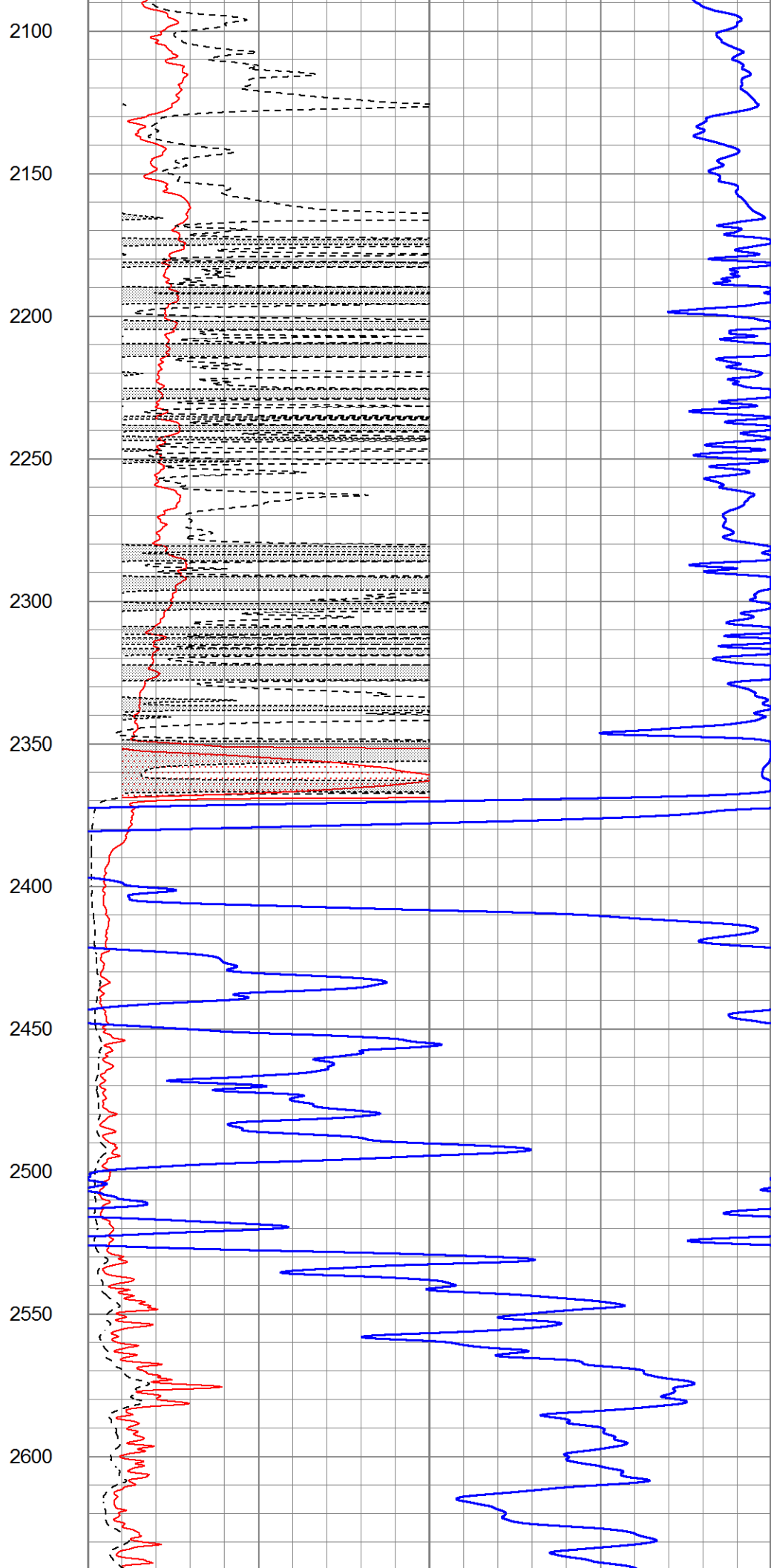
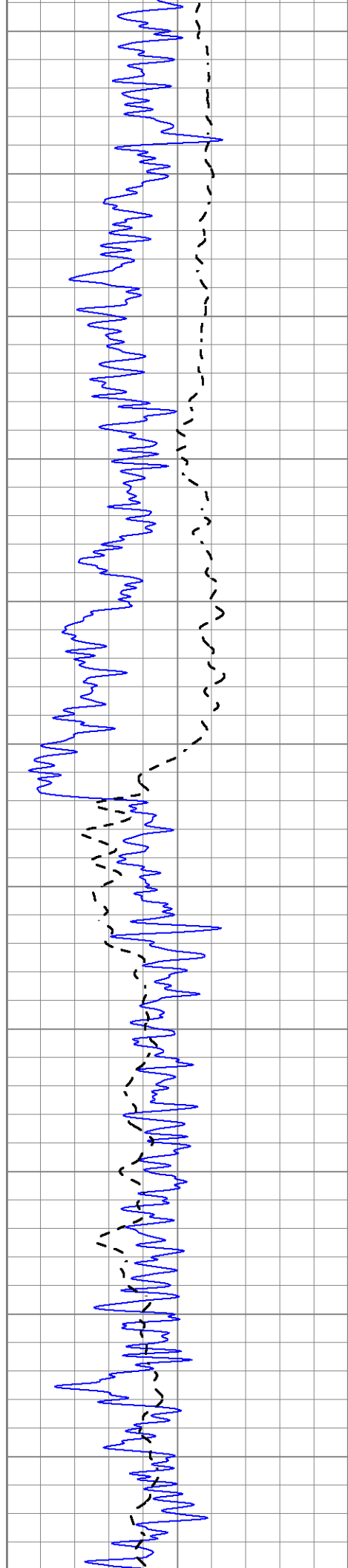
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-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
			0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500

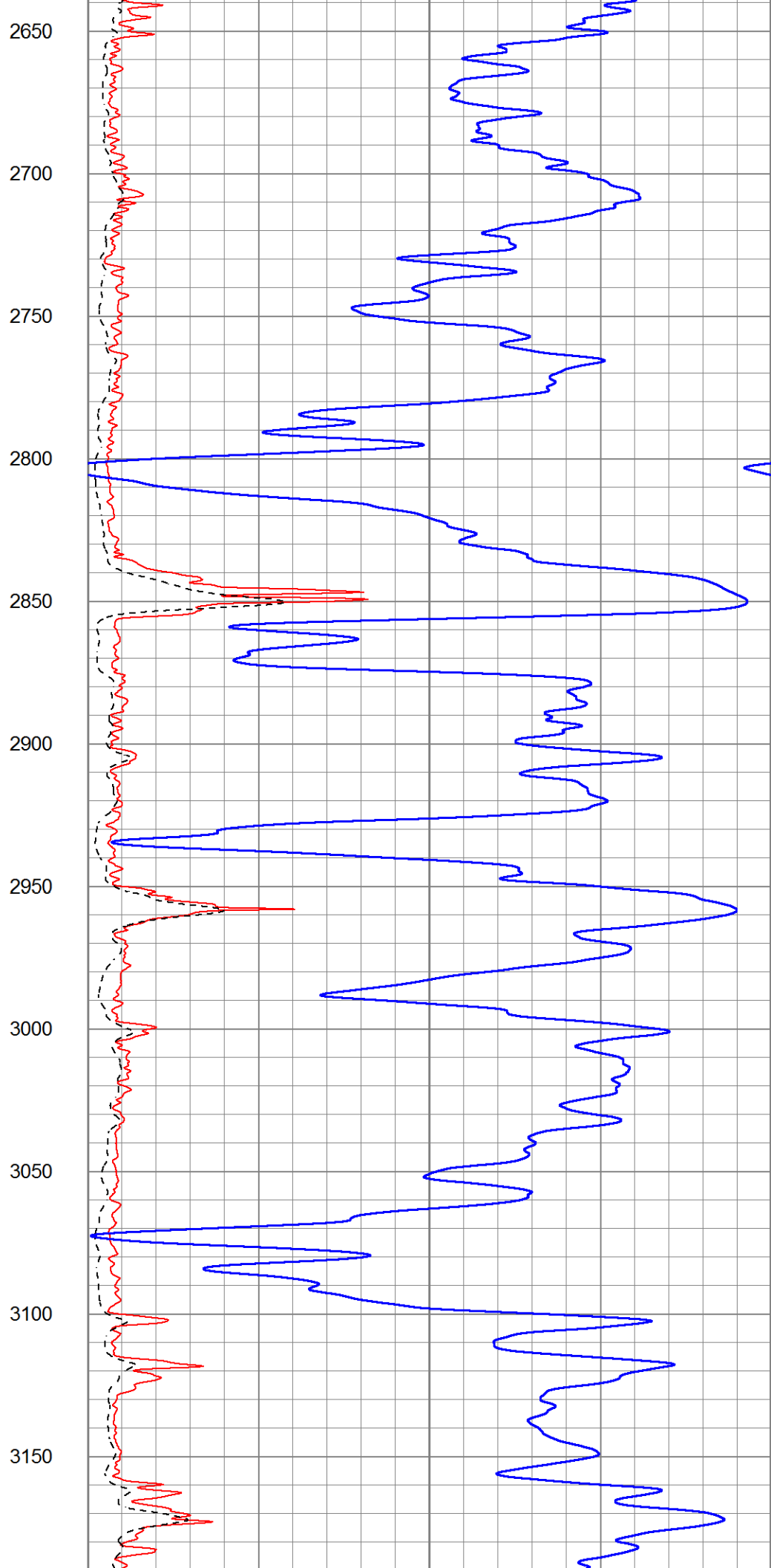
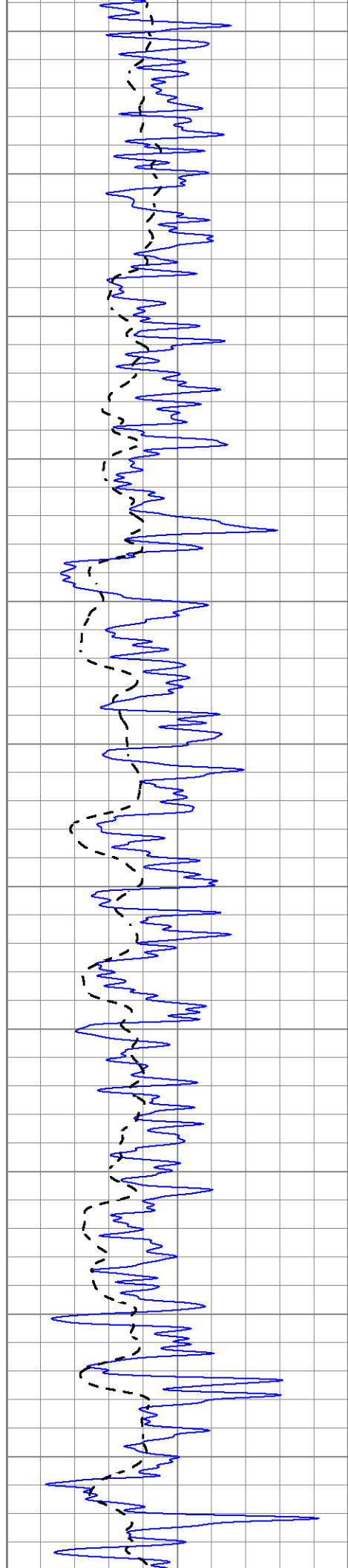




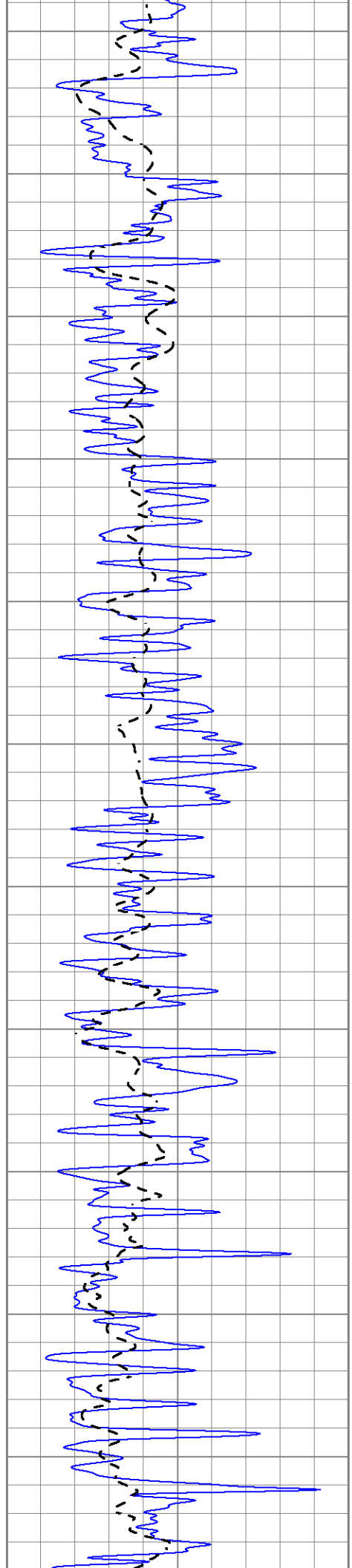
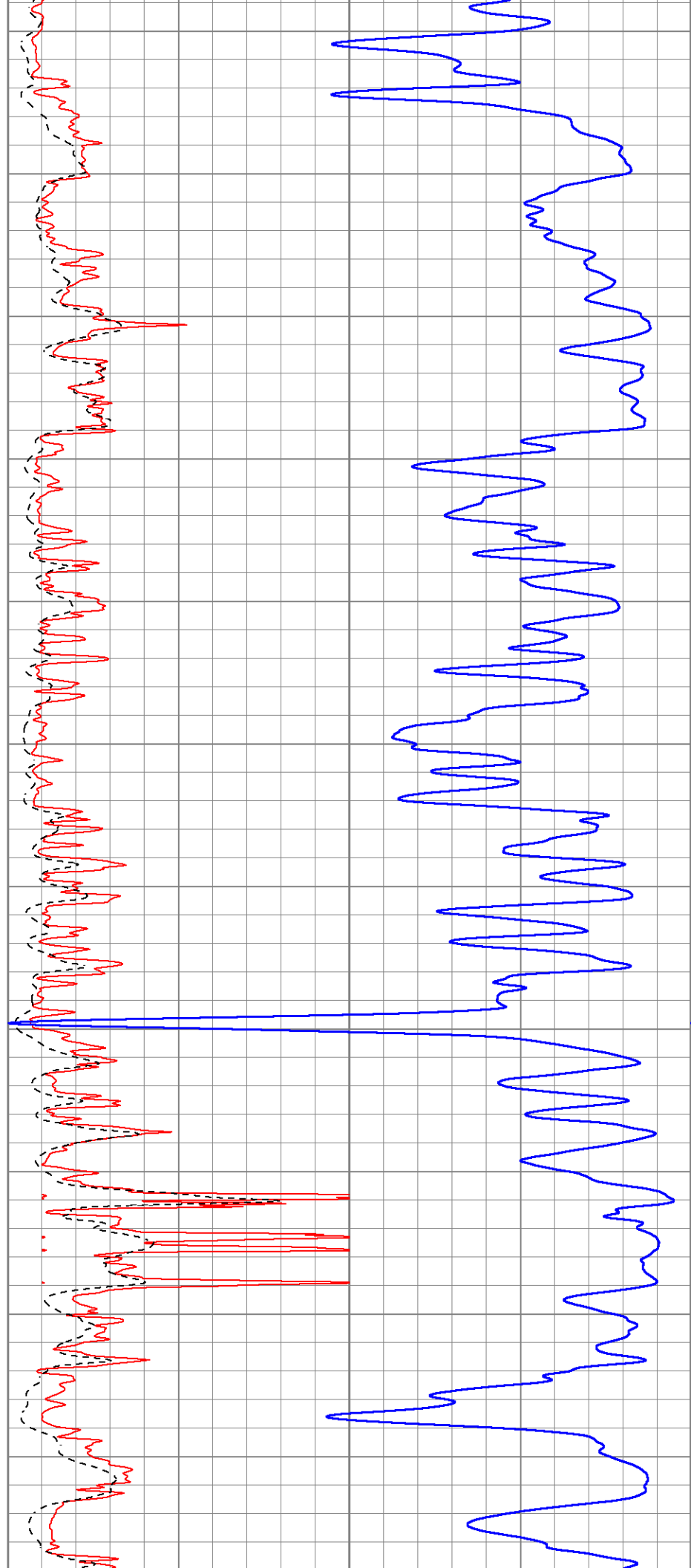


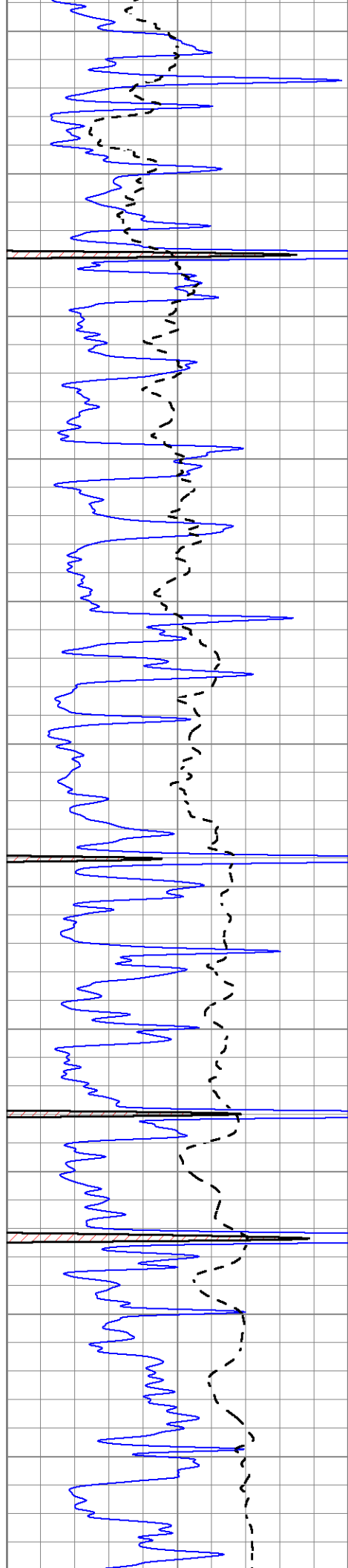






3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700





3750

3800

3850

3900

3950

4000

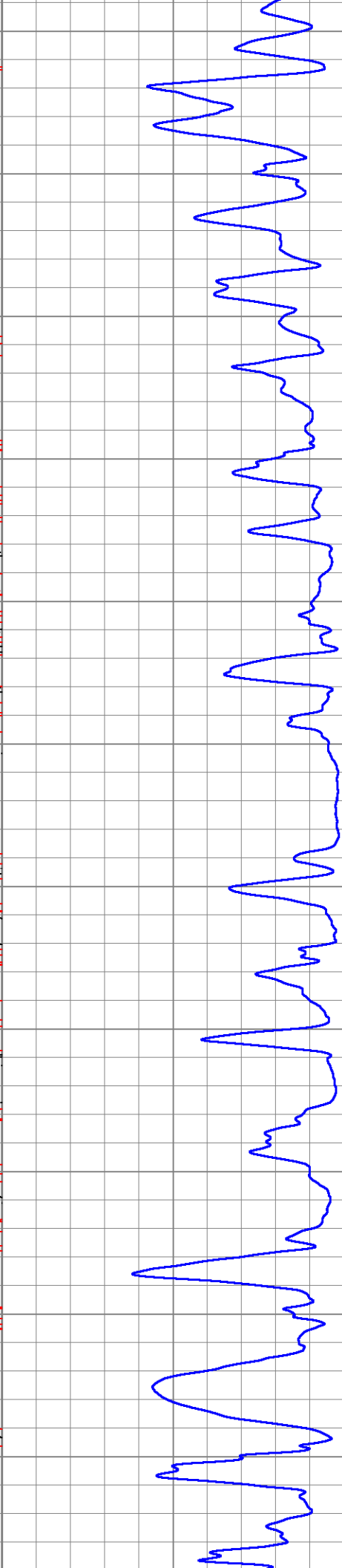
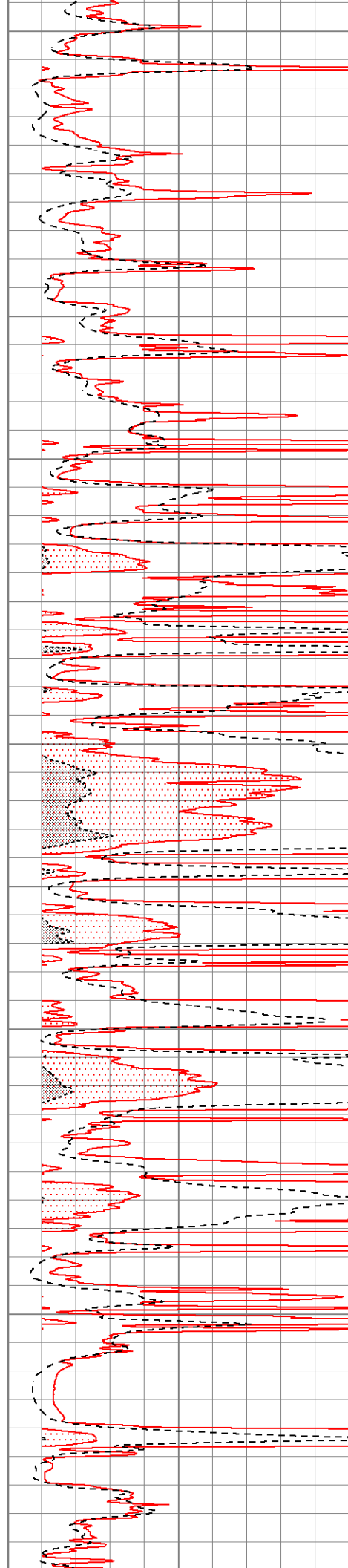
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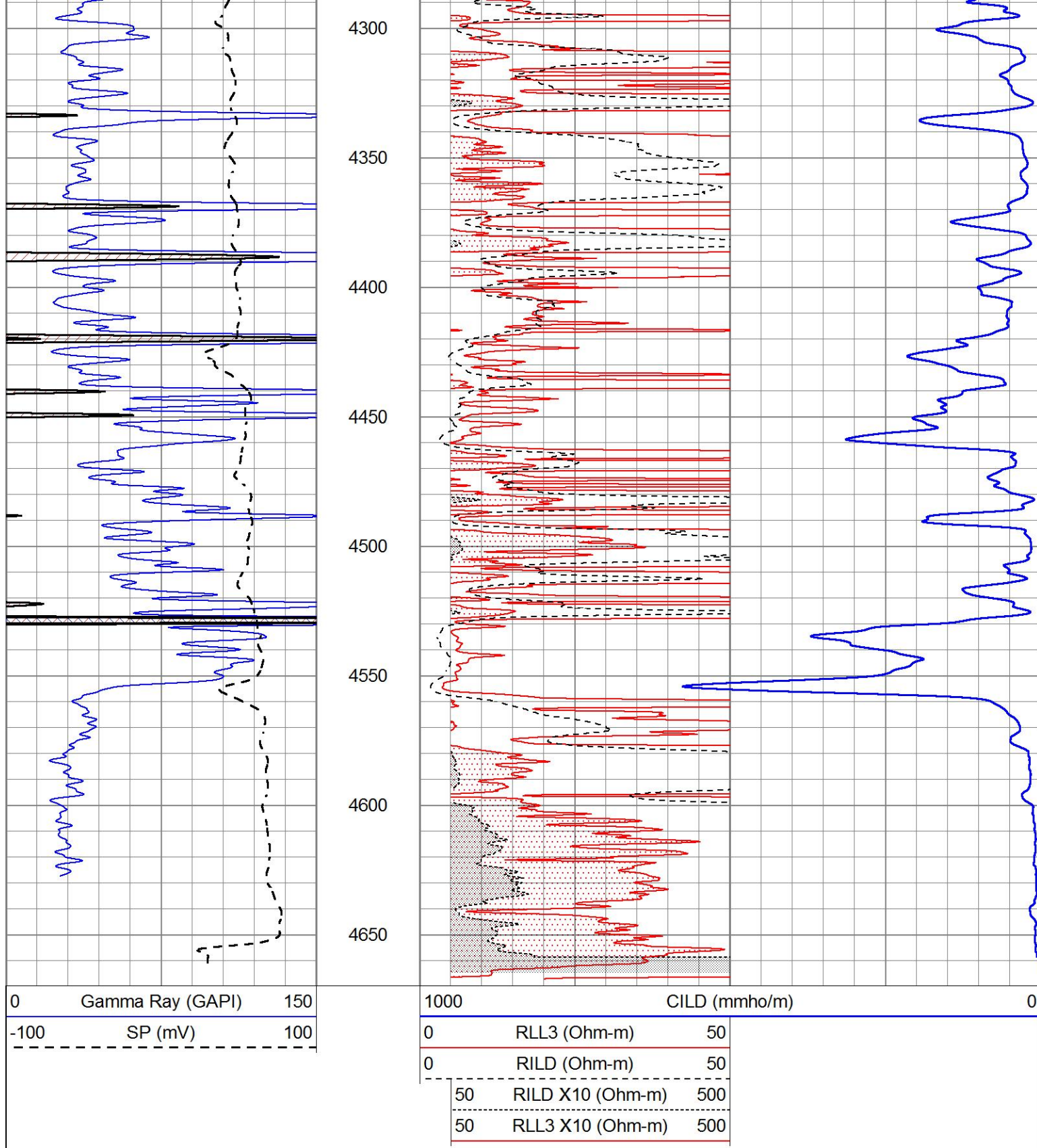
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4150

4200

4250

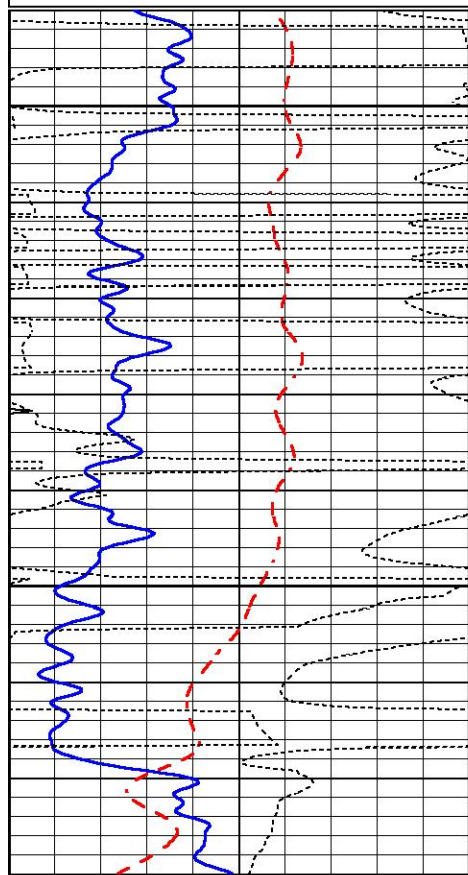




MAIN PASS

Database File 5880ddn.db
Dataset Pathname pass4.1
Presentation Format _dil
Dataset Creation Tue Oct 05 08:16:05 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

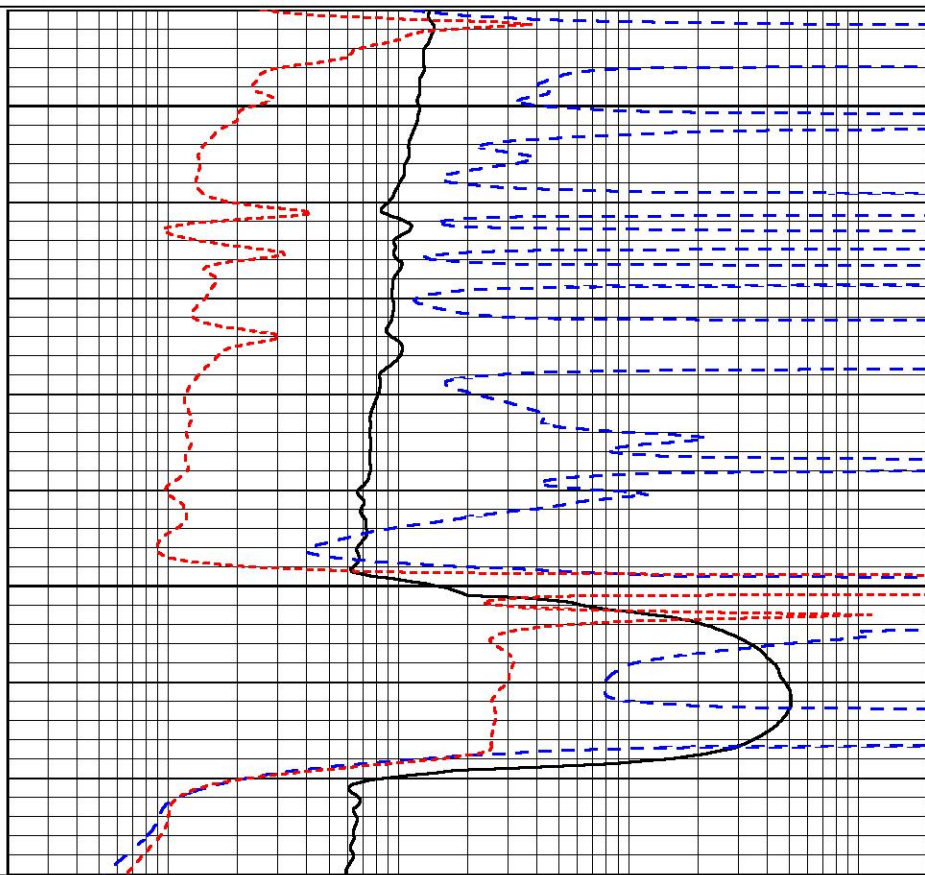


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

2300

2350

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



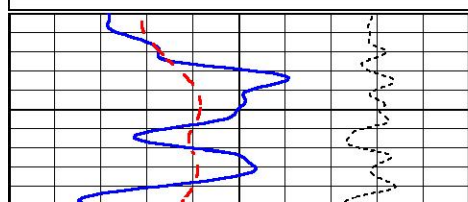
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



MAIN PASS

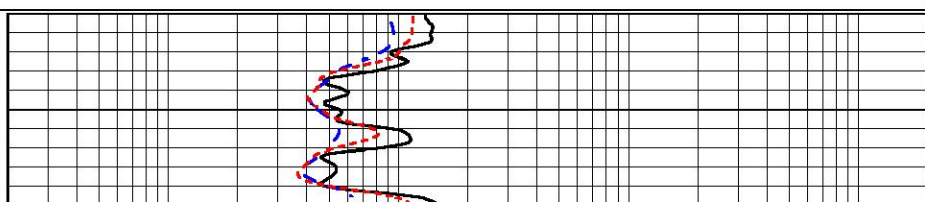
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Dataset Pathname pass4.1
Presentation Format _dil
Dataset Creation Tue Oct 05 08:16:05 2021
Charted by Depth in Feet scaled 1:240

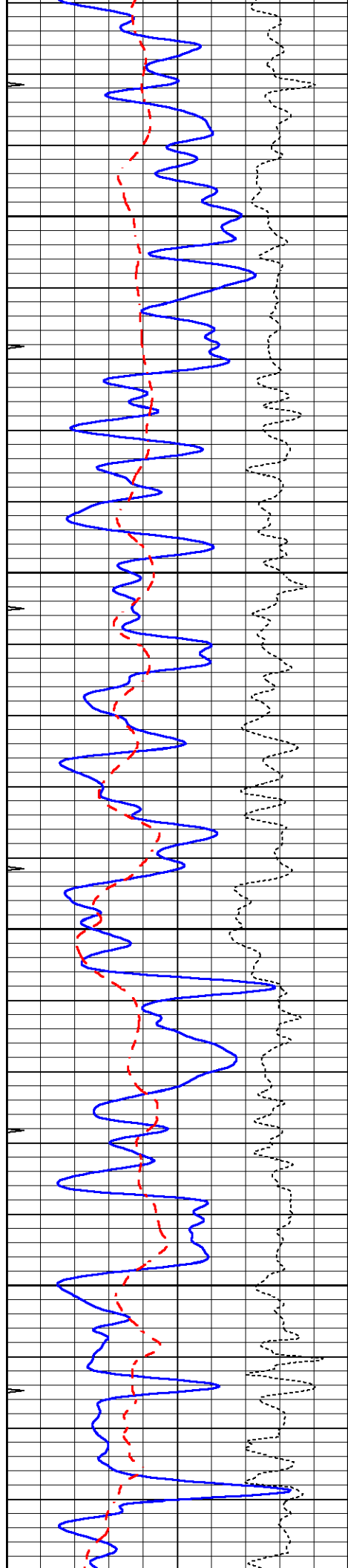
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



3400

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



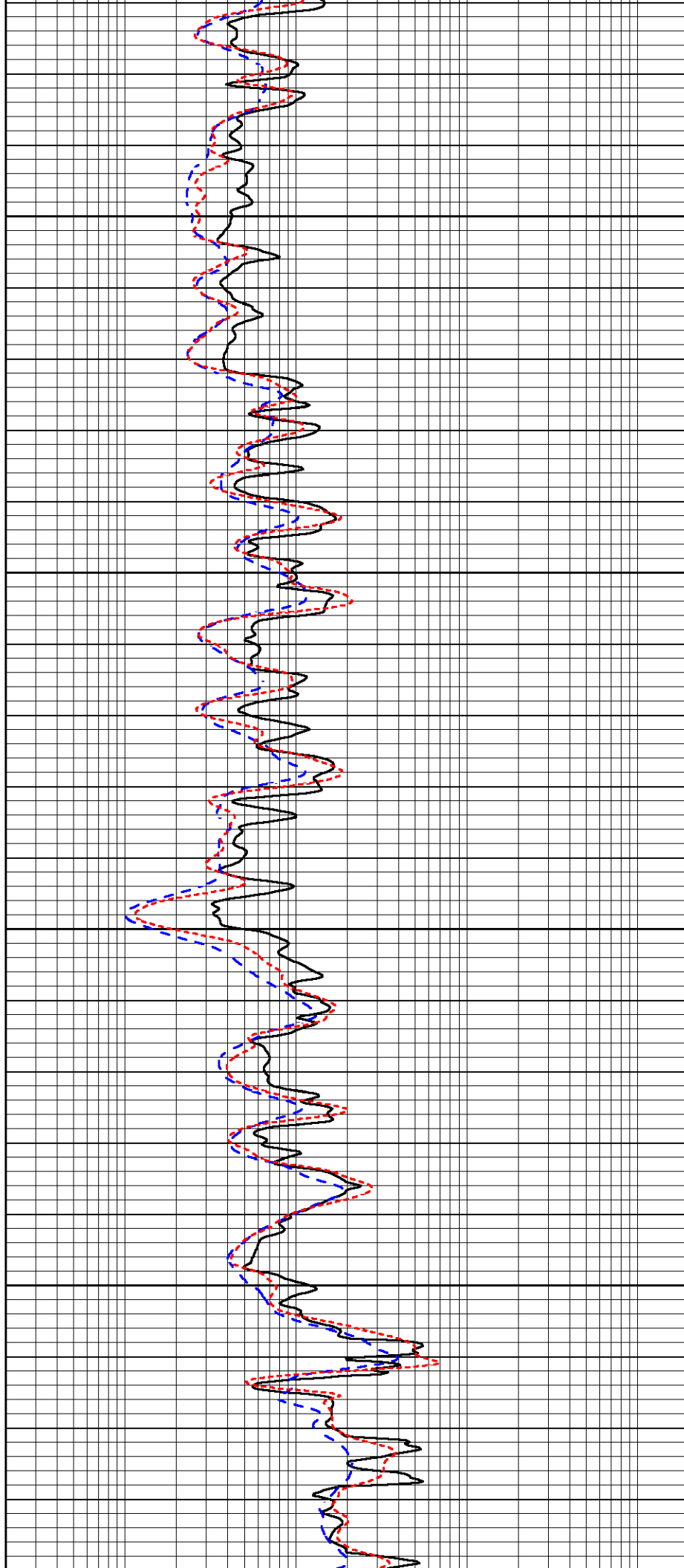


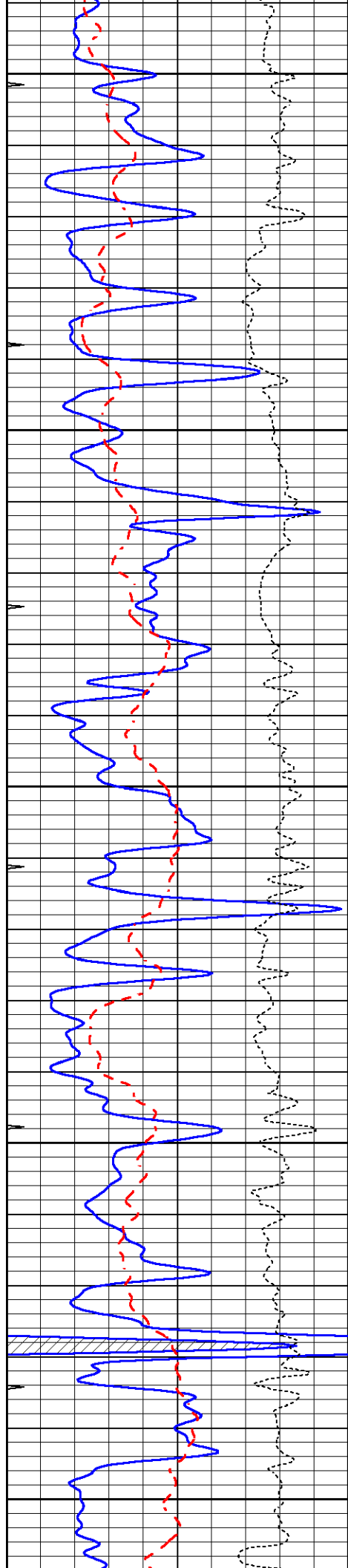
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3500

3550

3600





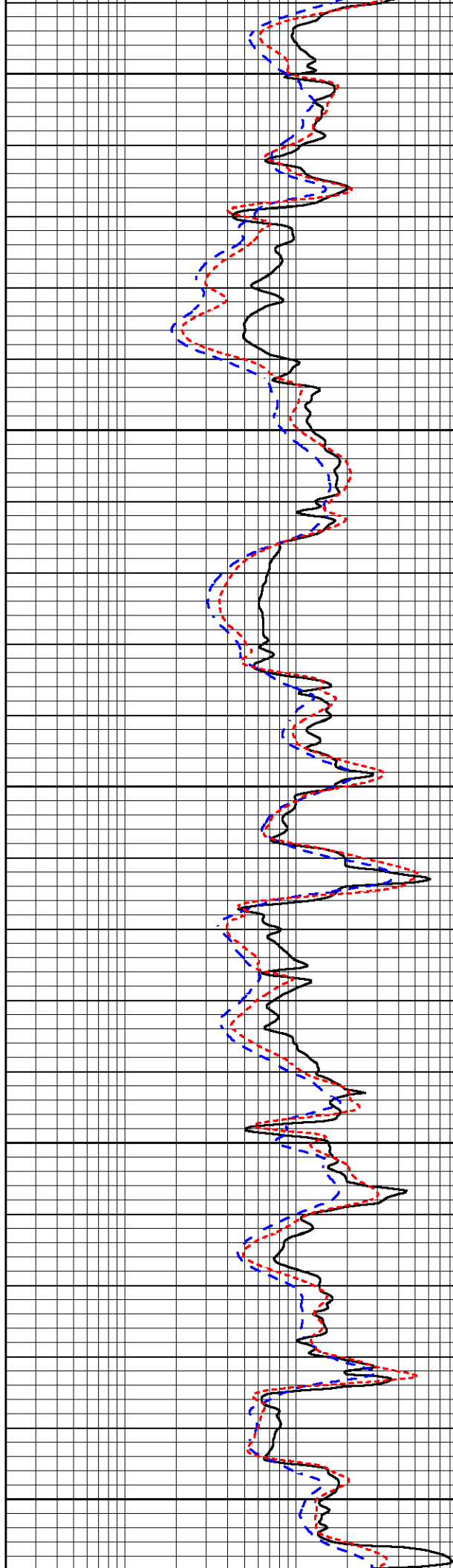
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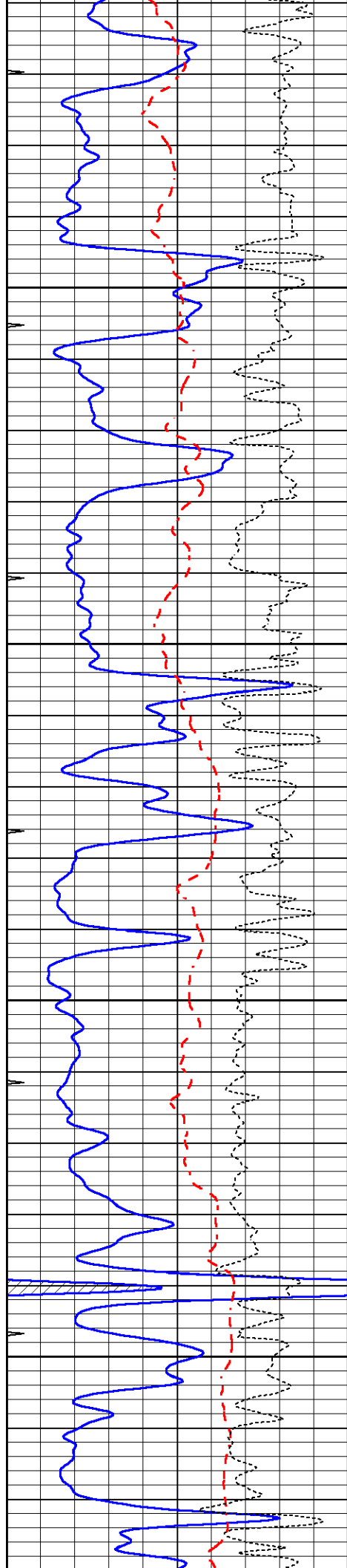
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3750

3800

3850



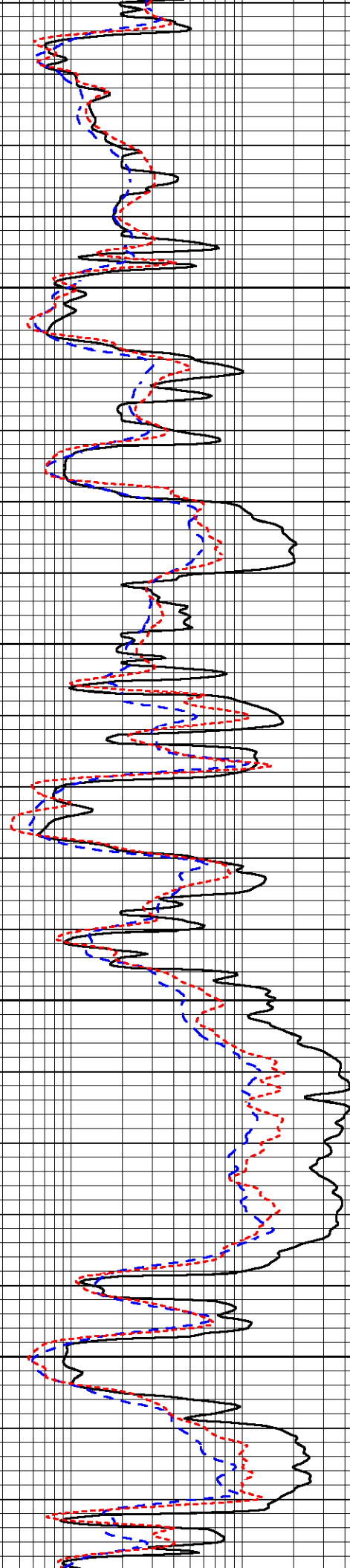


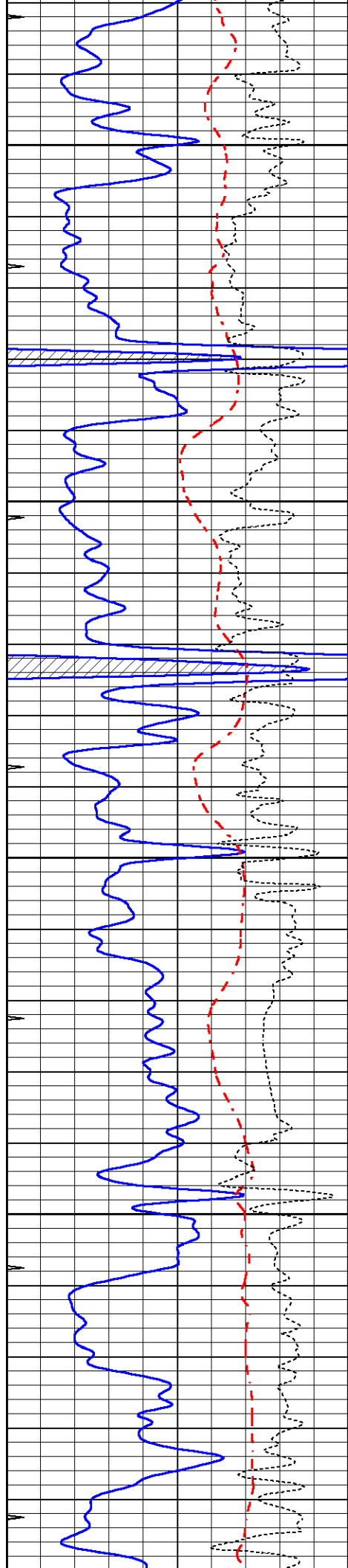
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3950

4000

4050





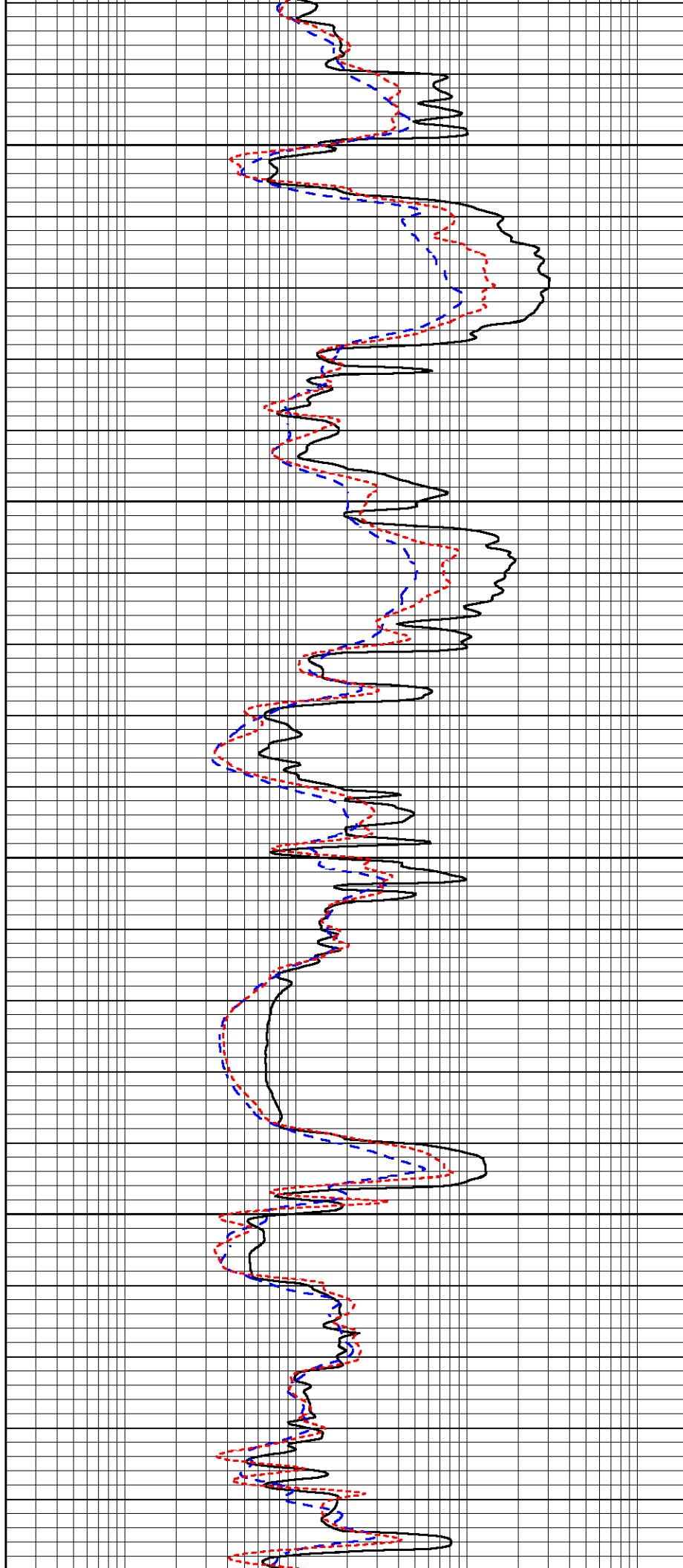
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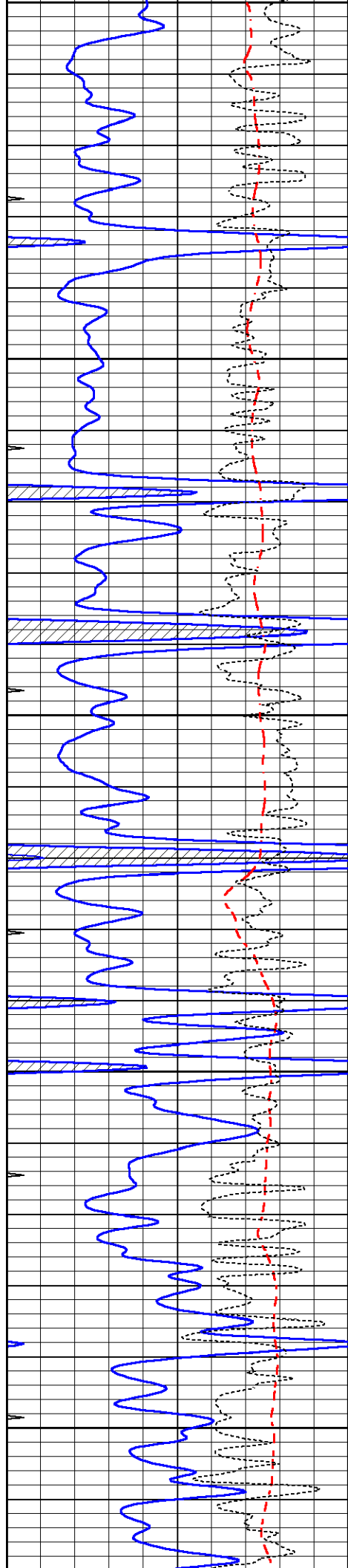
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4200

4250

4300





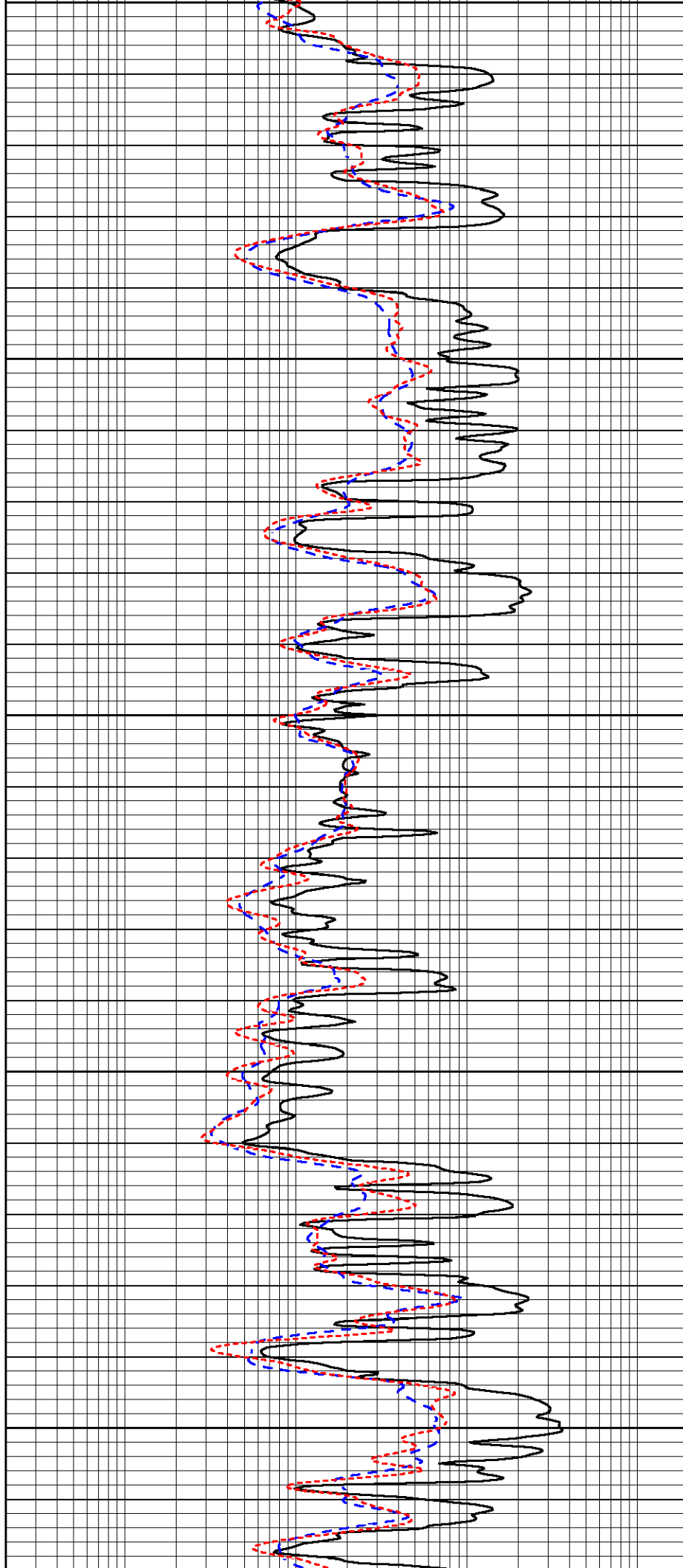
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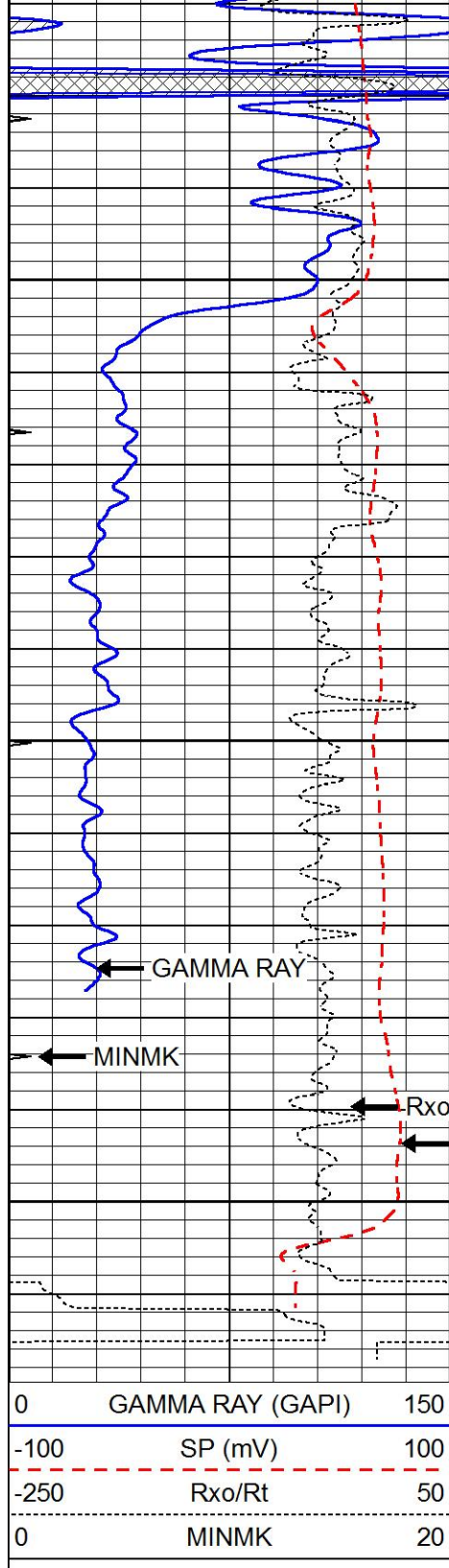
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4400

4450

4500



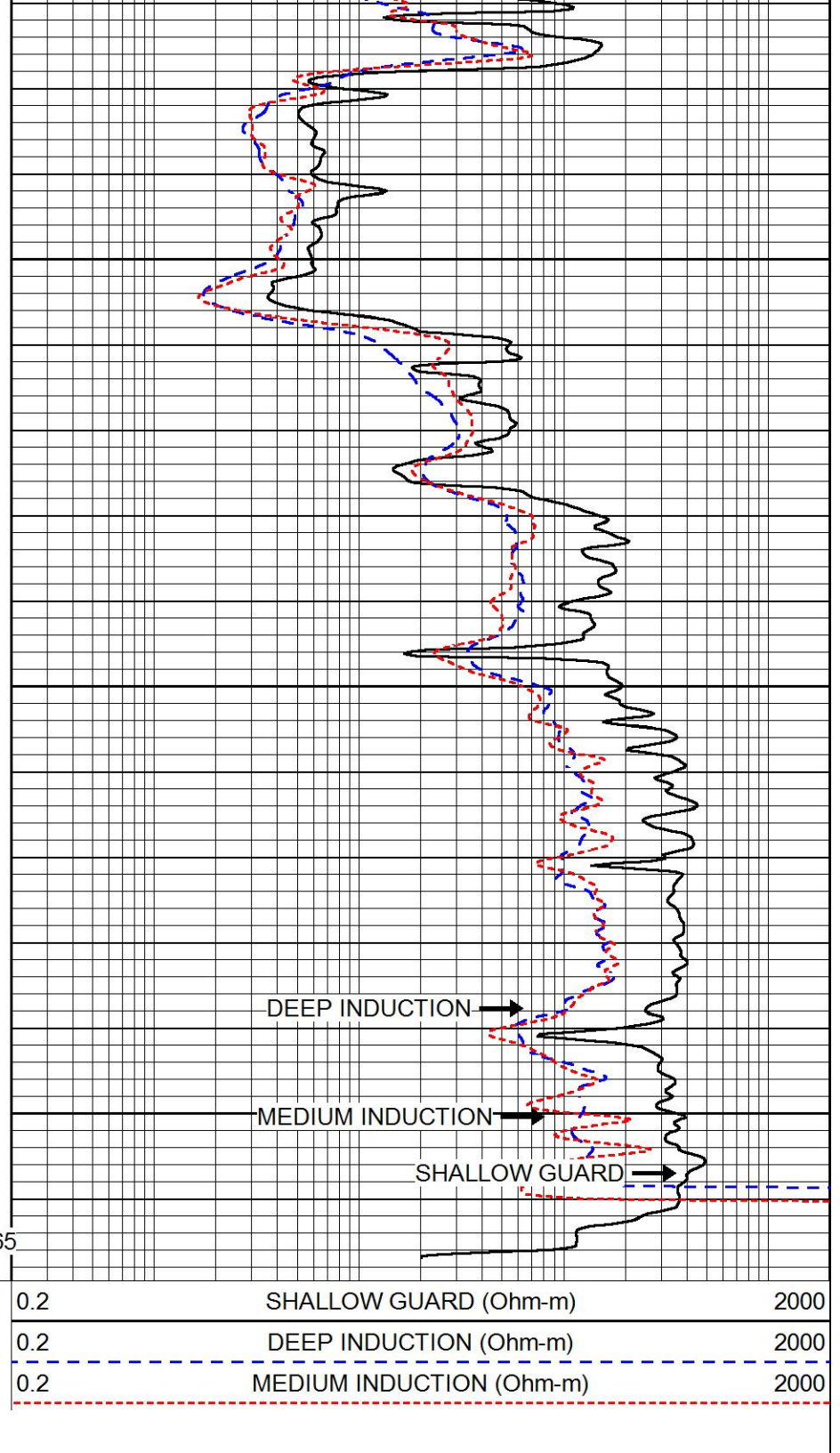


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4600

4650

LTD 4665



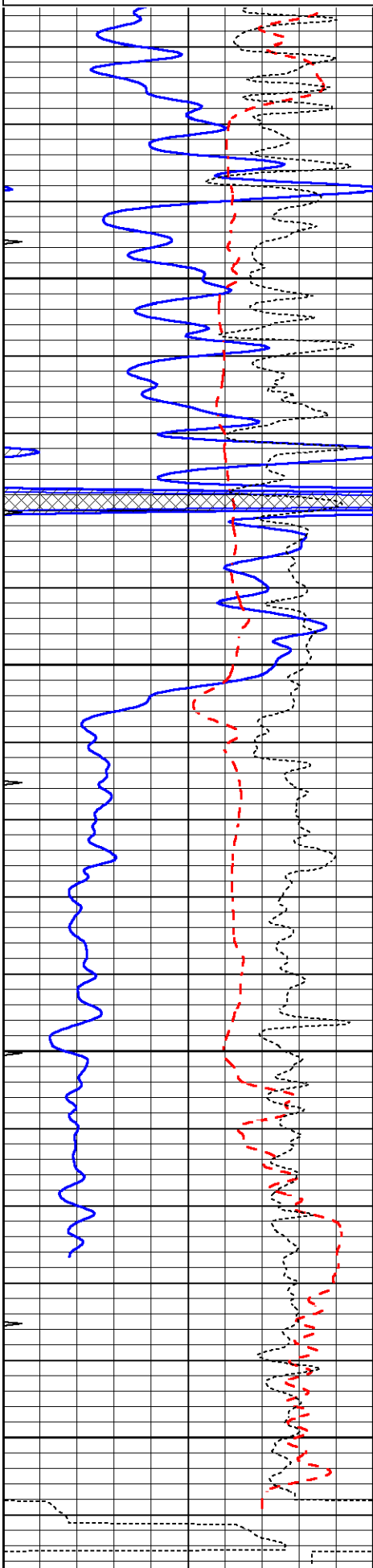
REPEAT SECTION

Database File 5880ddn.db
 Dataset Pathname pass3RP
 Presentation Format _dil
 Dataset Creation Tue Oct 05 08:12:33 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
-250	Rxo/Rt	50
0	MINMK	20



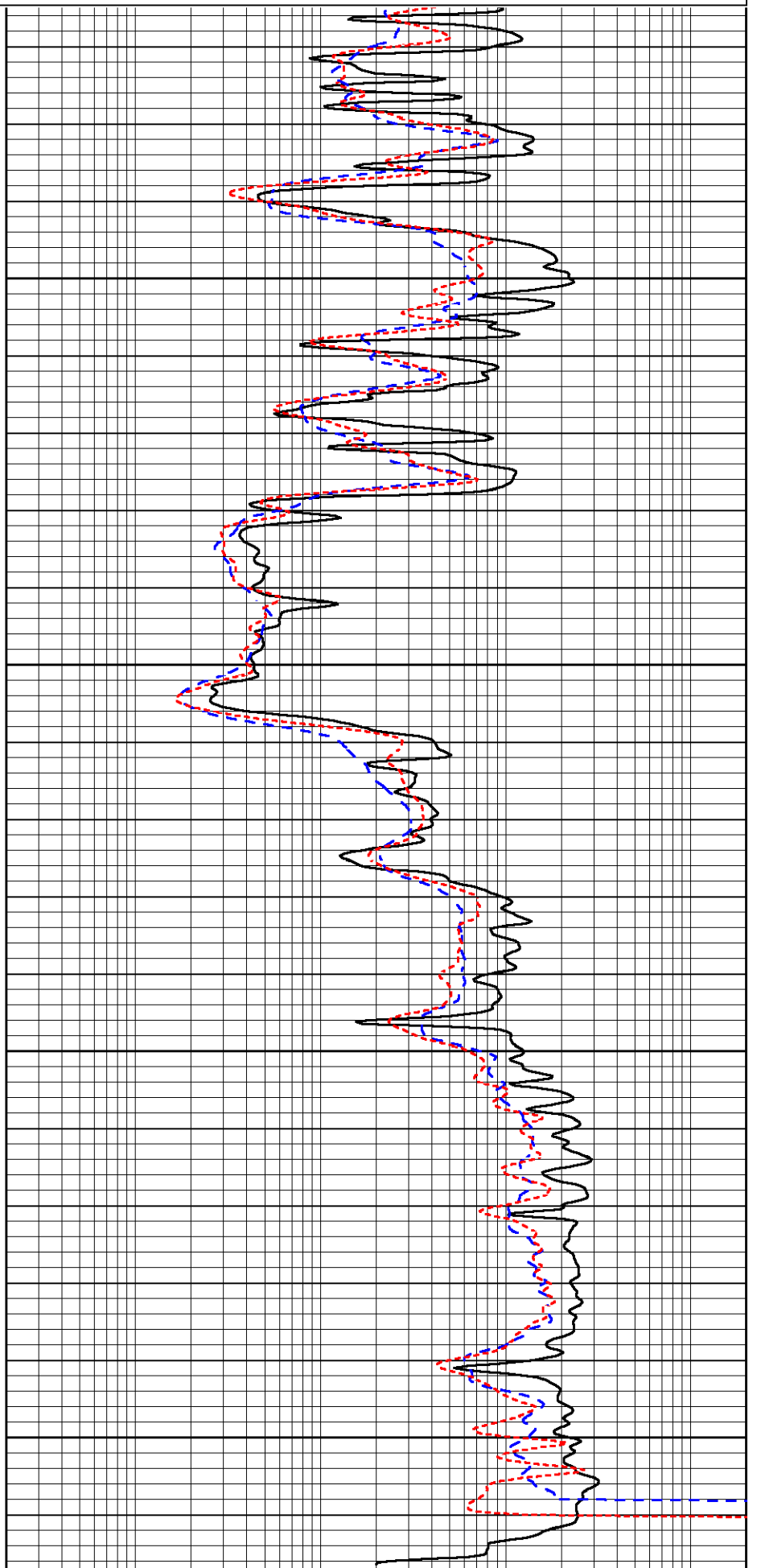
4500

4550

4600

4650

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



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			

Calibration Report									
Database File	5880ddn.db								
Dataset Pathname	pass4.1								
Dataset Creation	Tue Oct 05 08:16:05 2021								
Dual Induction Calibration Report									
Serial-Model:				PROBE8-DILG					
Surface Cal Performed:				Fri Oct 01 14:24:33 2021					
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	-15.000	
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	
Blank		1.7100	0.5000	0.0000					

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					
		Serial Number:		6I	
		Tool Model:		G	
CALIBRATION					
Detector		Readings		Target	
				Normalization	
Short Space		1.00	cps	1.00	cps
Long Space		1.00	cps	1.00	cps
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 Long Space	cps cps	pu	pu
3)	Short Space Long Space	cps cps	pu	pu

Gamma Ray Calibration Report				
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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		