

# DUAL INDUCTION LOG

Company PALOMINO PETROLEUM, INC.  
 Well ARIKAREE BREAKS #1  
 Field WILDCAT  
 County CHEYENNE State KANSAS

Location: API #: 15-023-21557-0000  
 SE - NE - NE - SE  
 SEC 31 TWP 1S RGE 40W  
 Permanent Datum GROUND LEVEL Elevation 3311  
 Log Measured From KELLY BUSHING 5" A.G.L.  
 Drilling Measured From KELLY BUSHING  
 Other Services CDL/CNL/PE MEL/SONIC  
 Elevation K.B. 3316 D.F. 3314 G.L. 3311

Date	9/30/21
Run Number	ONE
Depth Driller	5150
Depth Logger	5151
Bottom Logged Interval	5149
Top Log Interval	00
Casing Driller	8 5/8"@201'
Casing Logger	201
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL
Density / Viscosity	9.3/59
pH / Fluid Loss	11.0/7.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.30@105F
Rmf @ Meas. Temp	.975@105F
Rmc @ Meas. Temp	1.56@105F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	1.08@126F
Time Circulation Stopped	2.5 HOURS
Time Logger on Bottom	6:00 P.M.
Maximum Recorded Temperature	126F
Equipment Number	922339
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	RYAN DAVIS

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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.

15-023-21557-0000 Comments

THANK YOU FOR USING E.L.I. WIRELINE SERVICES HAYS, KANSAS (785)628-6395  
 DIRECTIONS  
 ST. FRANCIS, KS., (HWY 27 & 36) 6.8 N&W ON HWY 27 TO "RD. 11", 4.8 N. TO "RD. Y", 1.2 E.&S., W. I

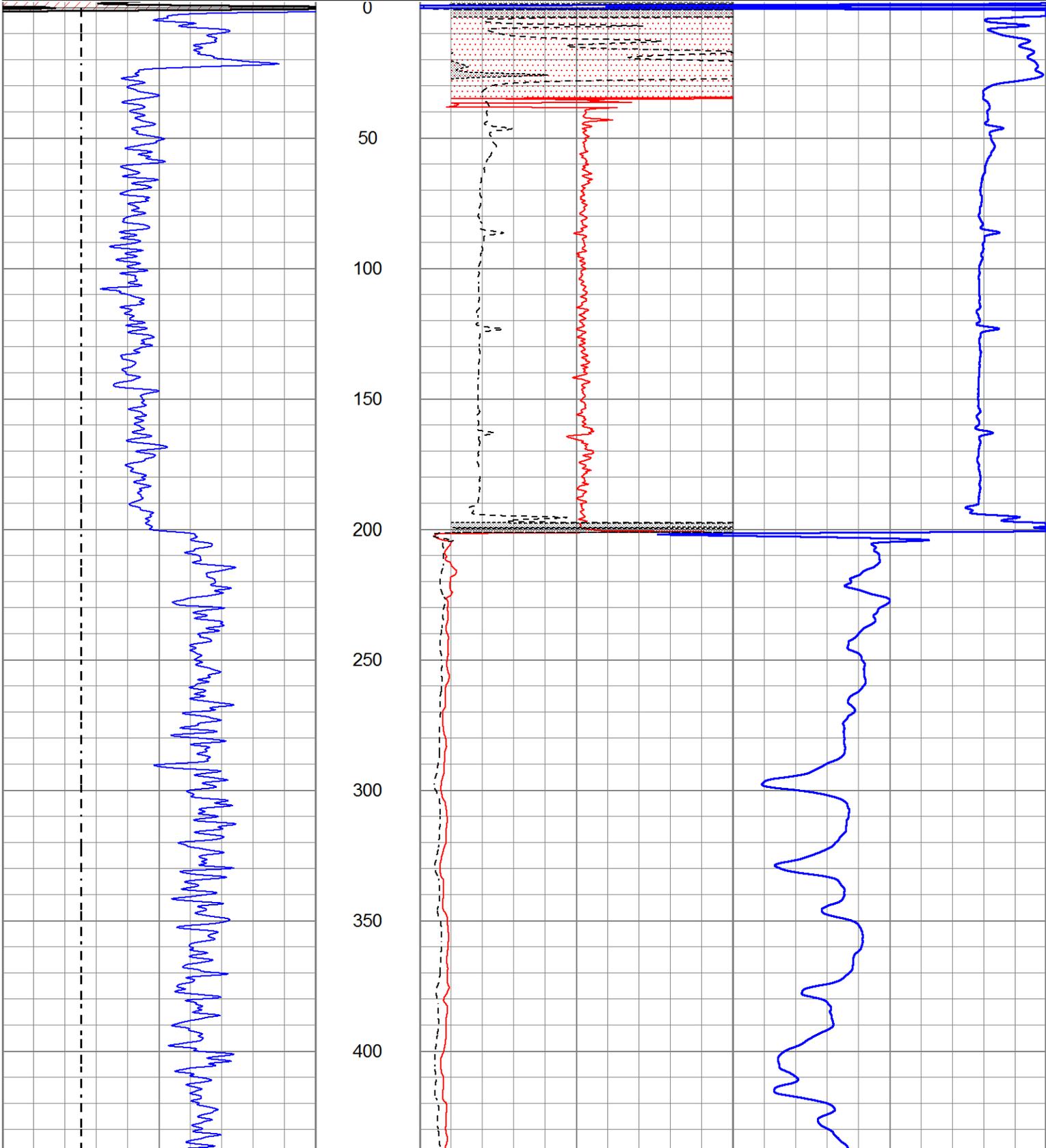


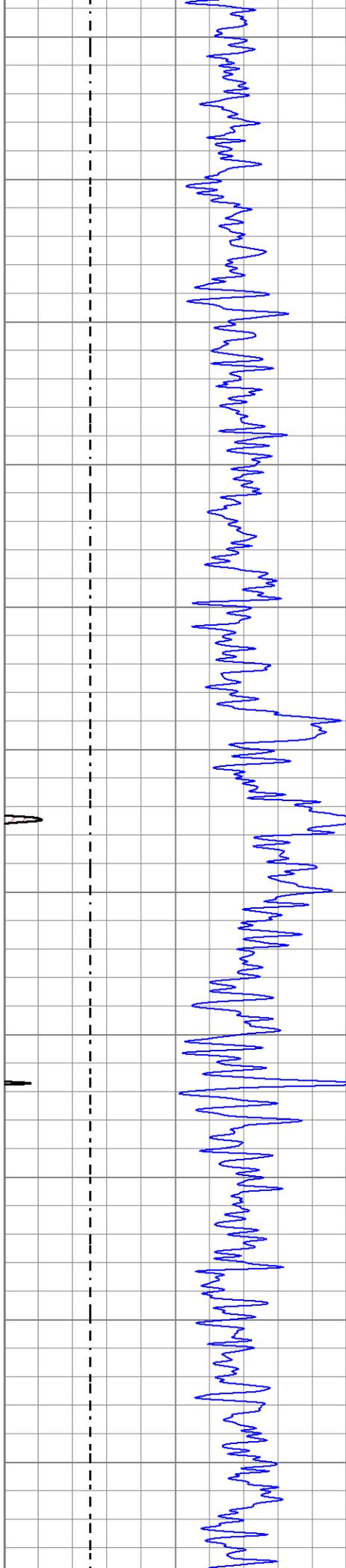
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 Dataset Pathname pass3.2M  
 Presentation Format dil2  
 Dataset Creation Thu Sep 30 21:05:43 2021  
 Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

1000	CILD (mmho/m)	0
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

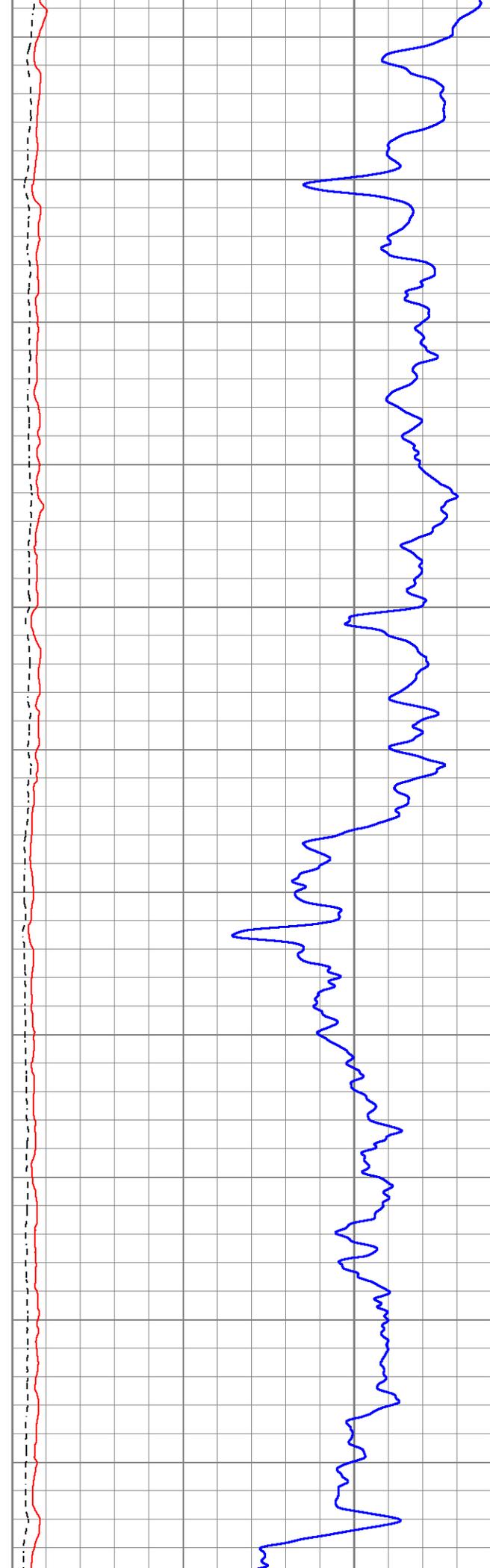
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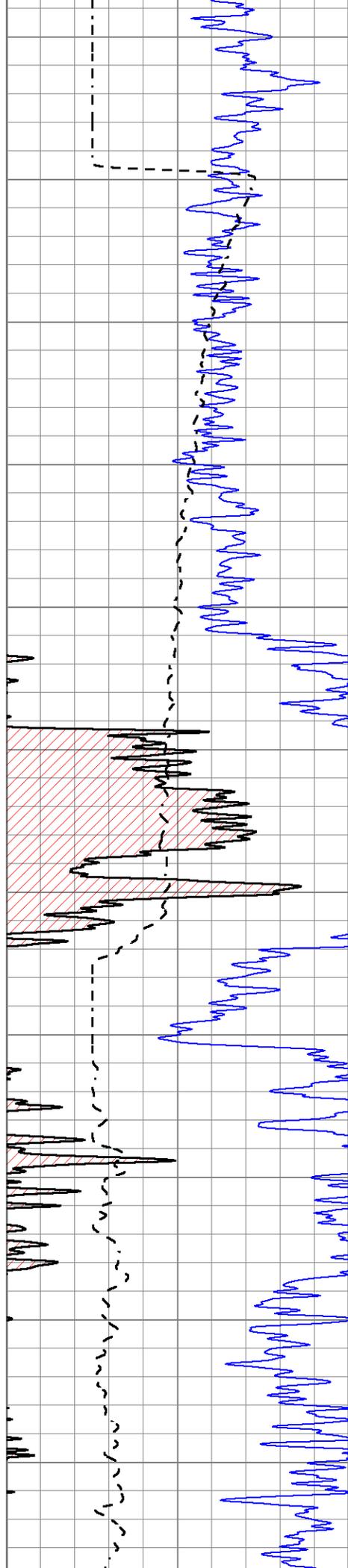
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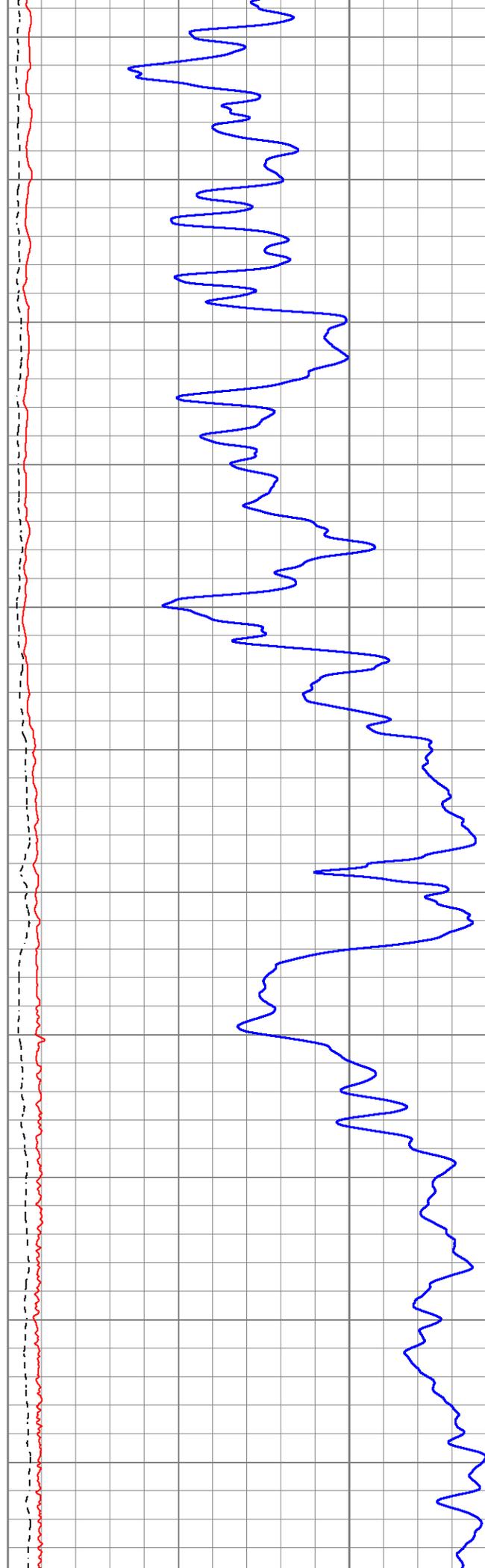
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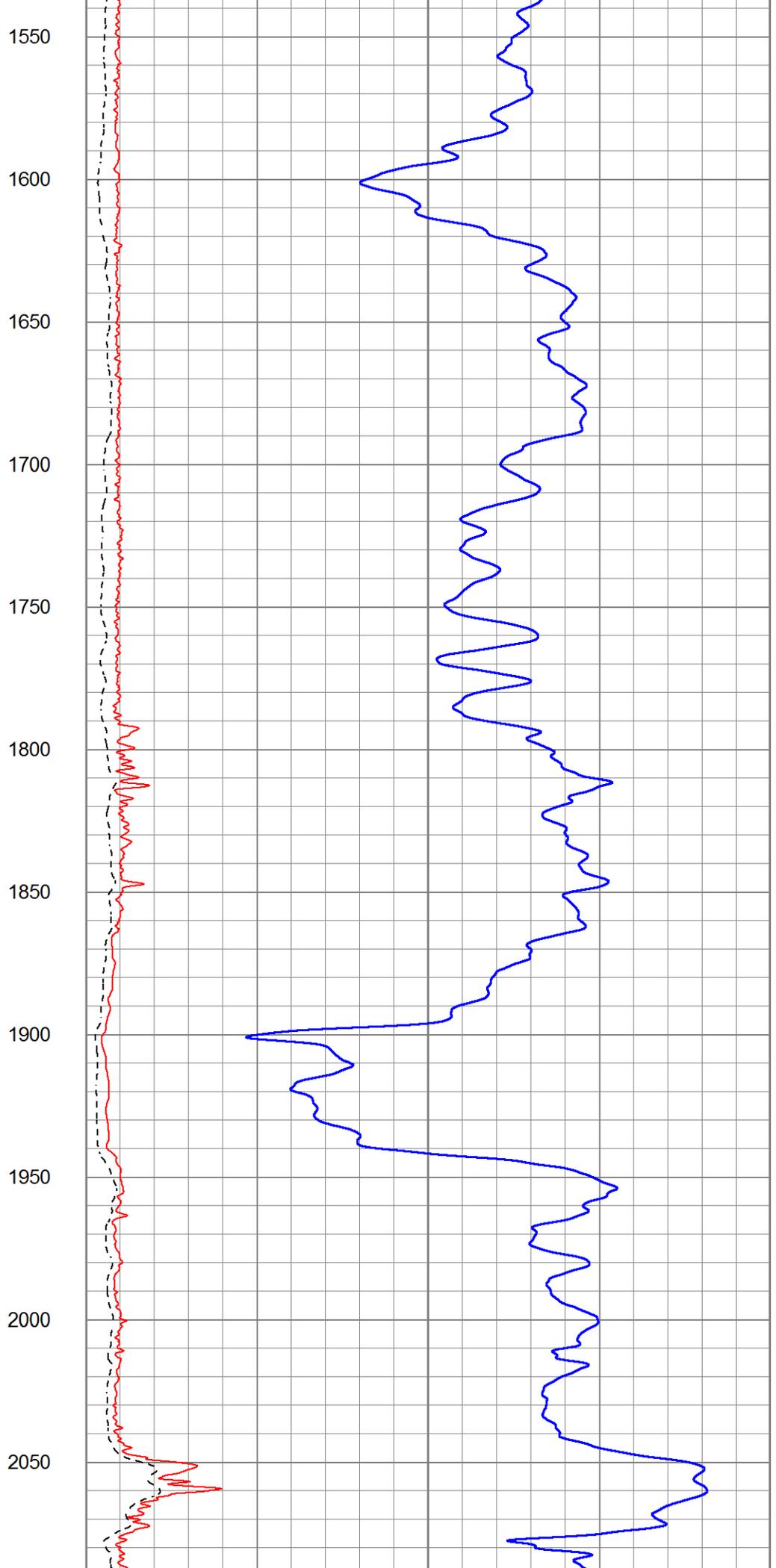
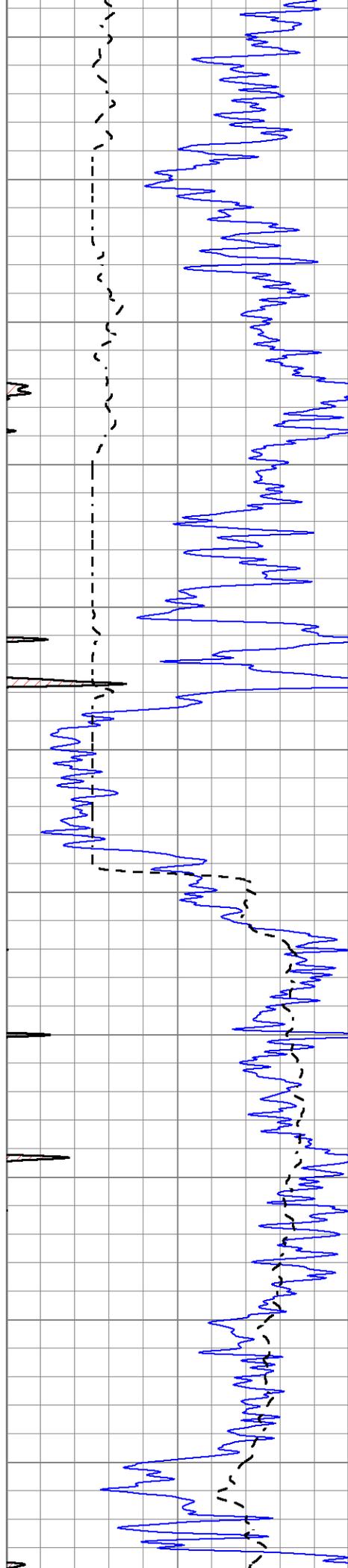
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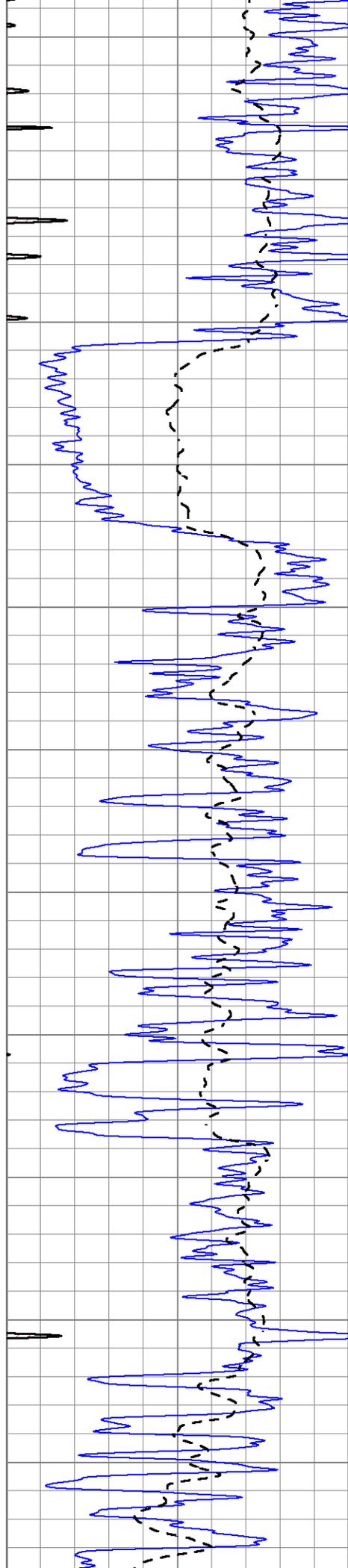




1000  
1050  
1100  
1150  
1200  
1250  
1300  
1350  
1400  
1450  
1500







2100

2150

2200

2250

2300

2350

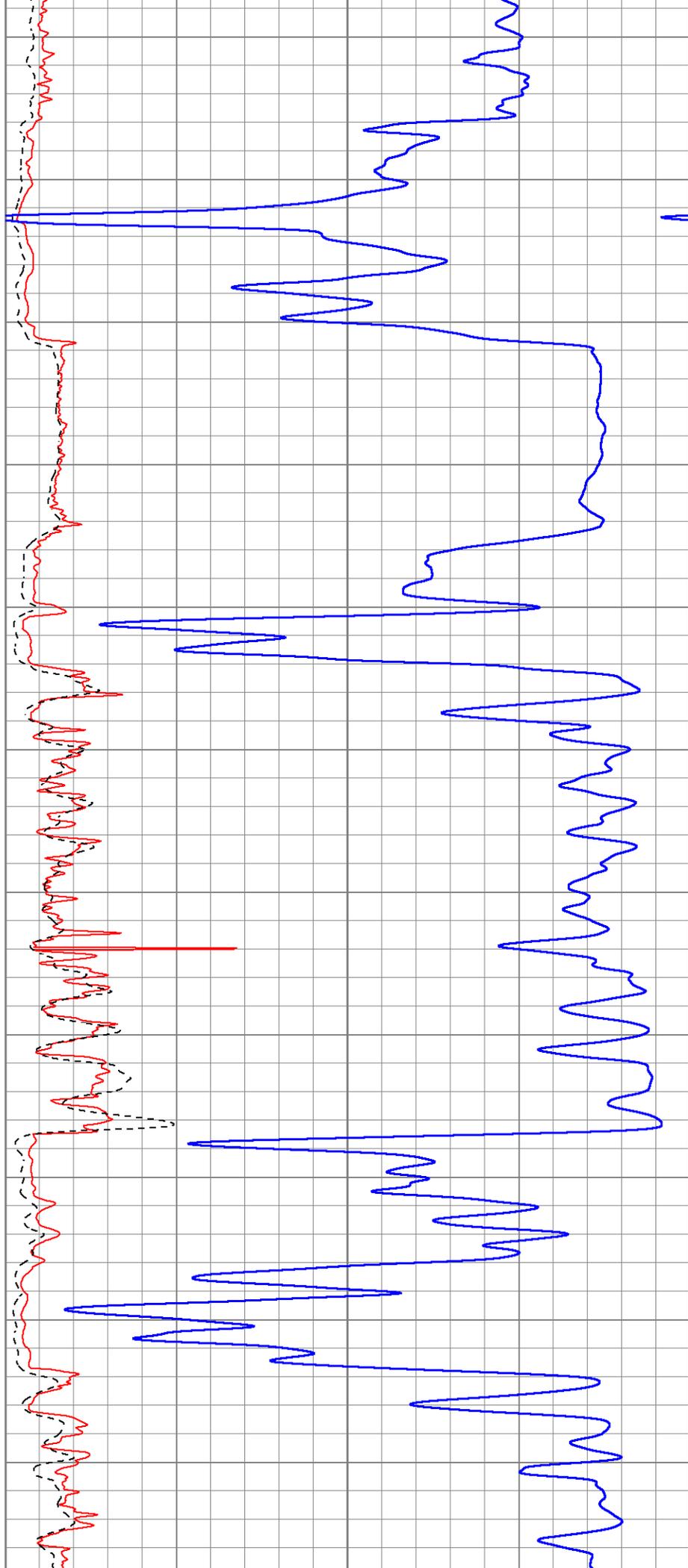
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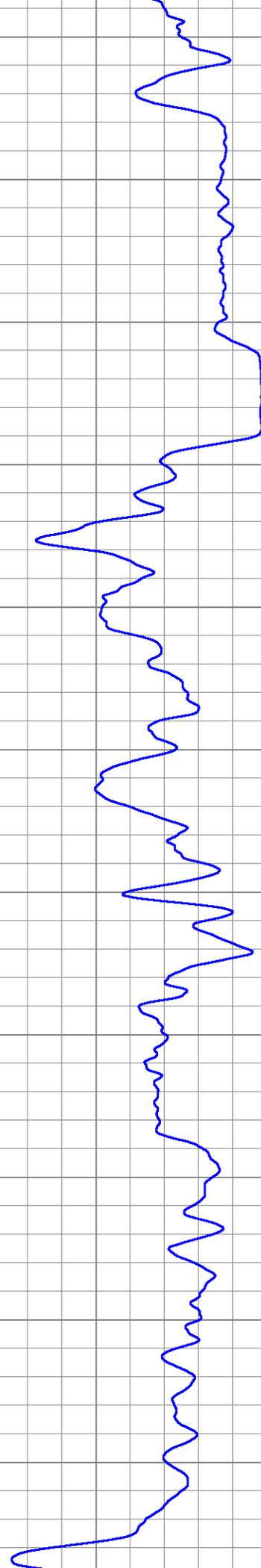
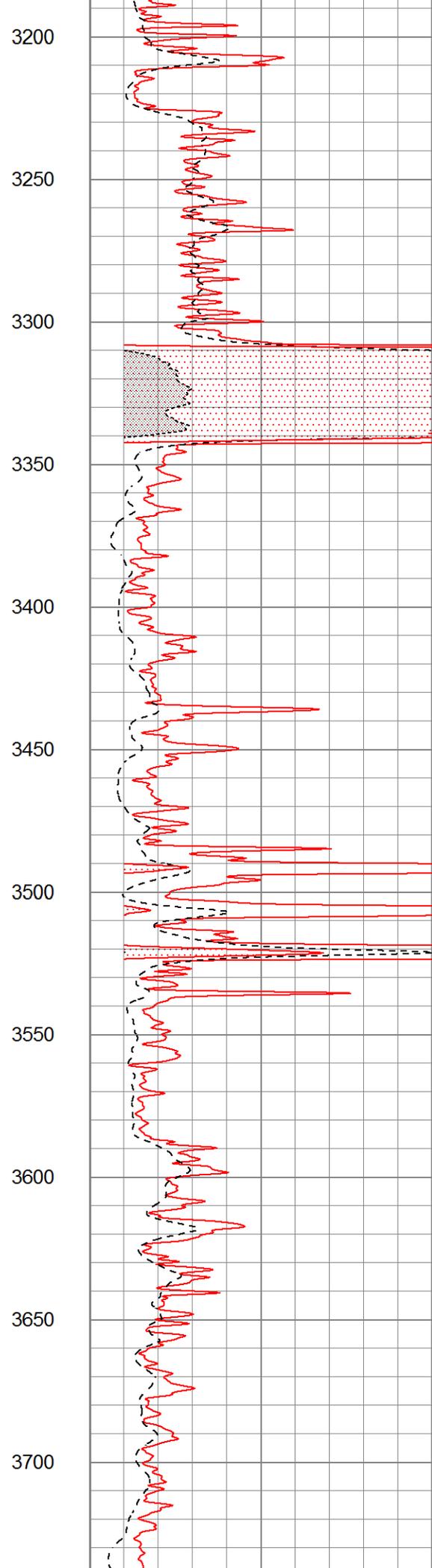
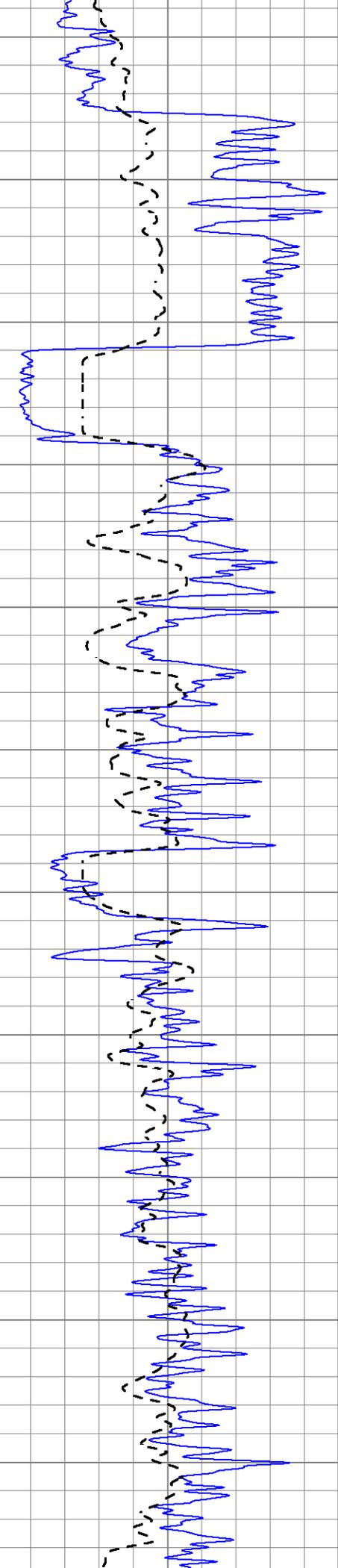
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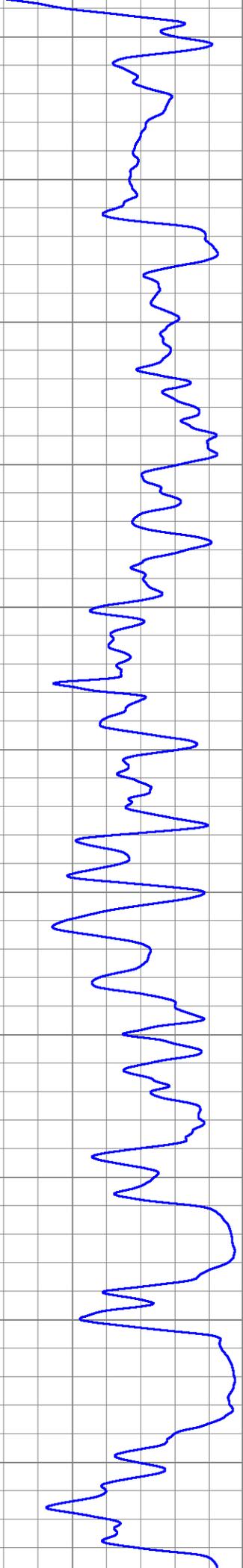
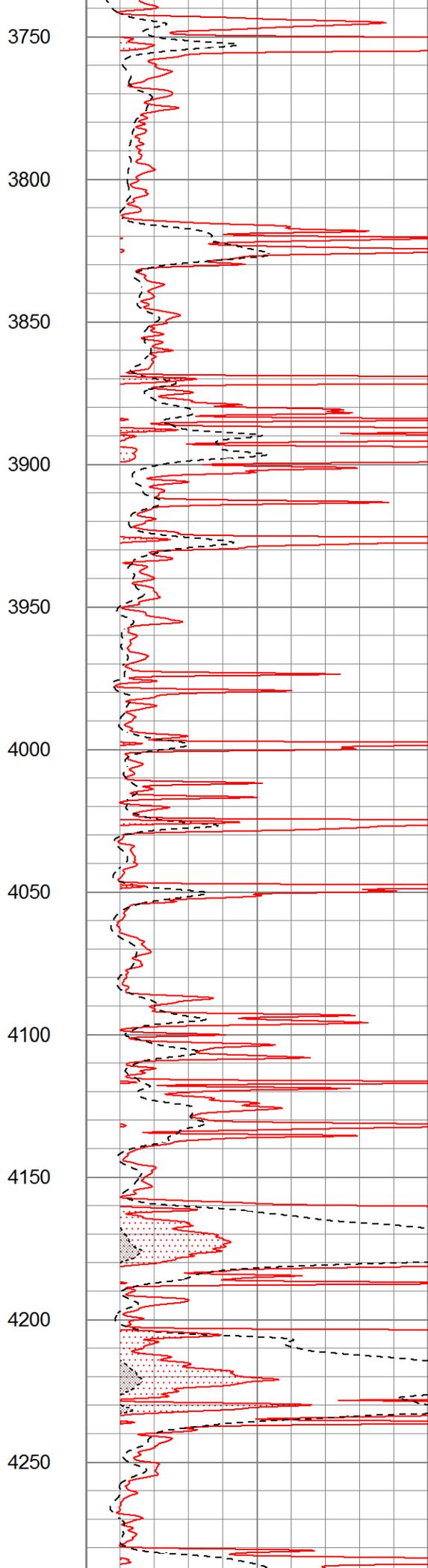
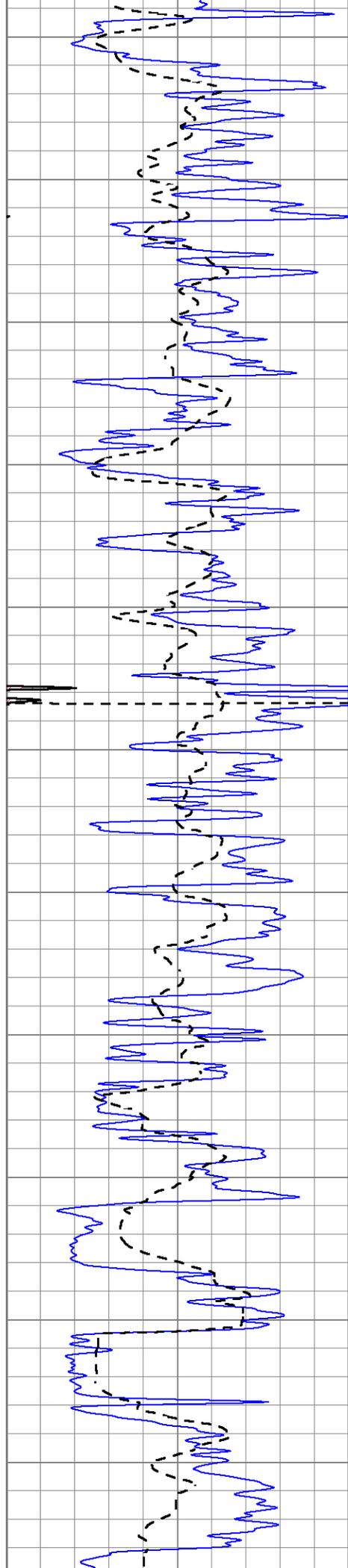
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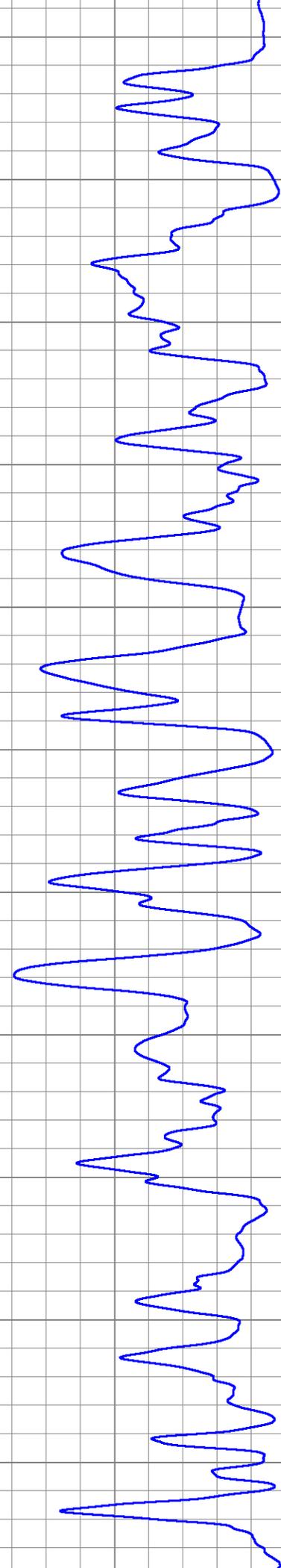
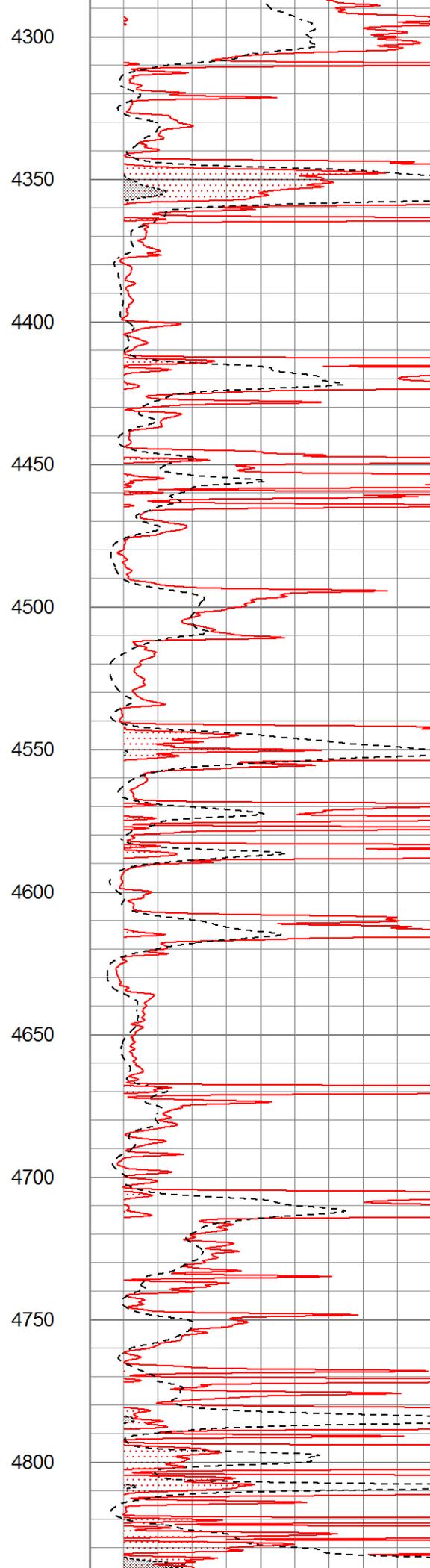
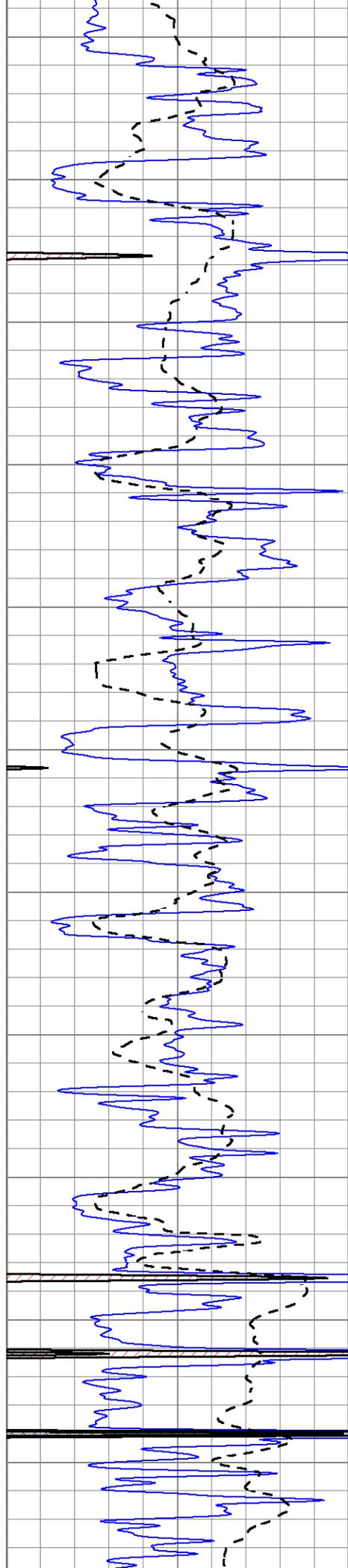
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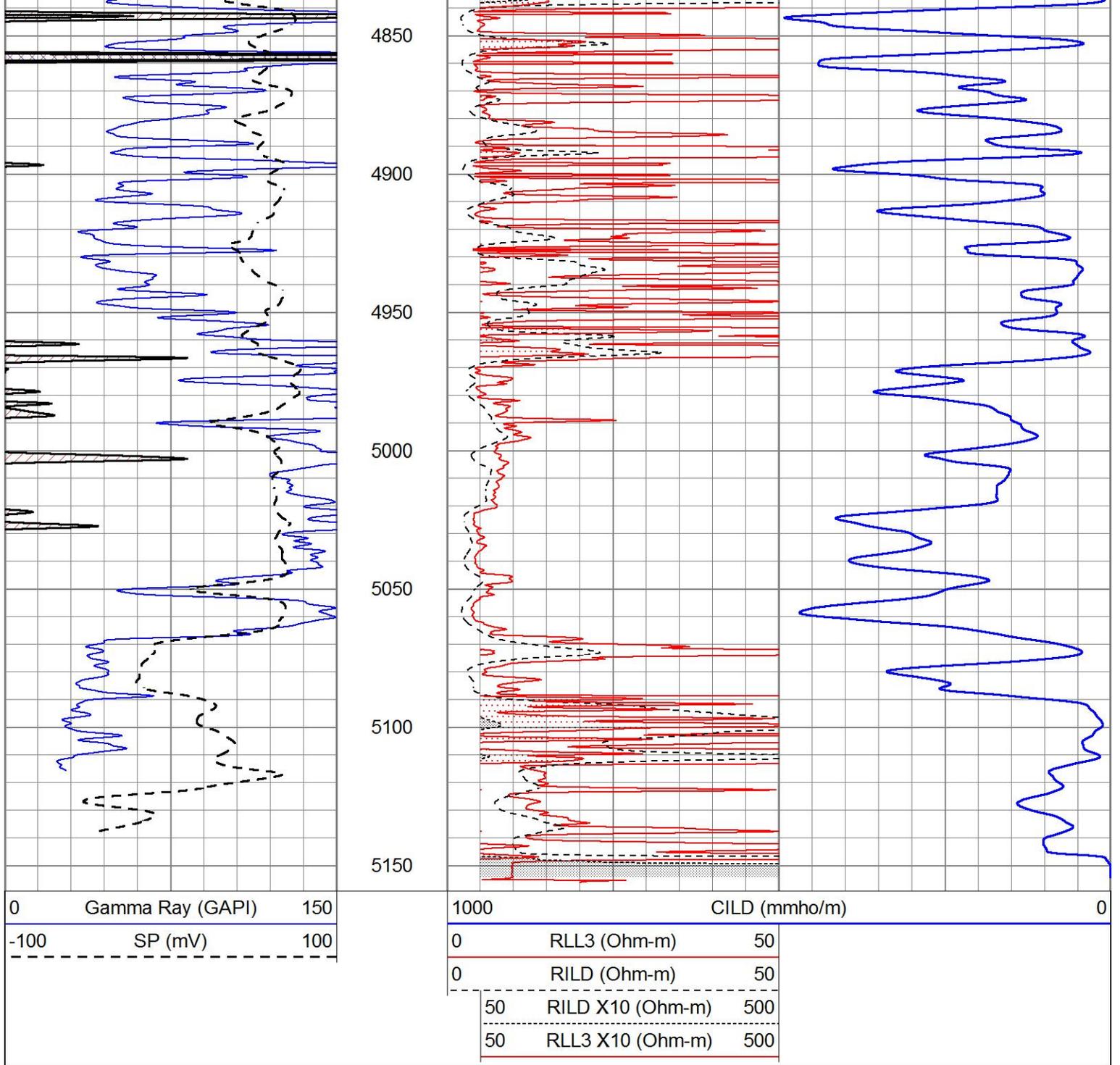








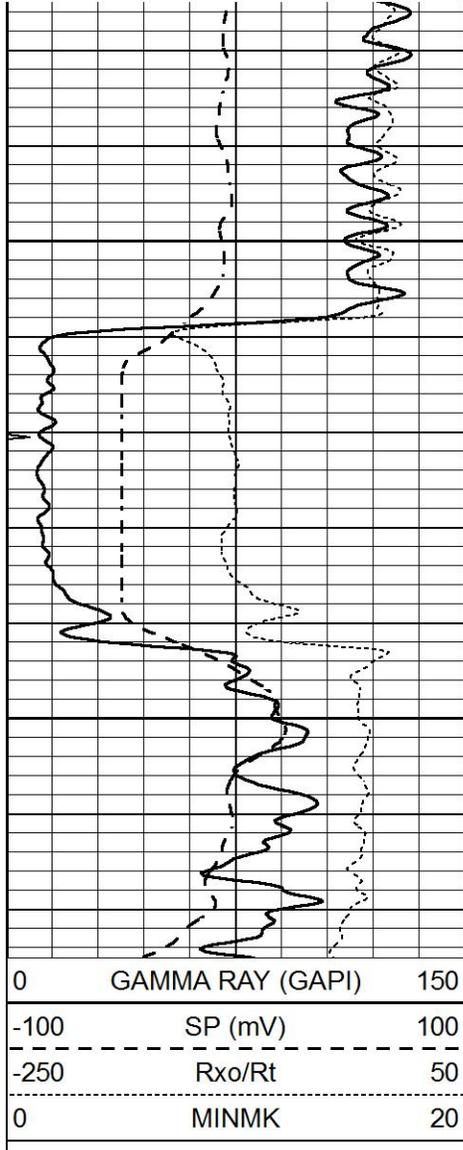




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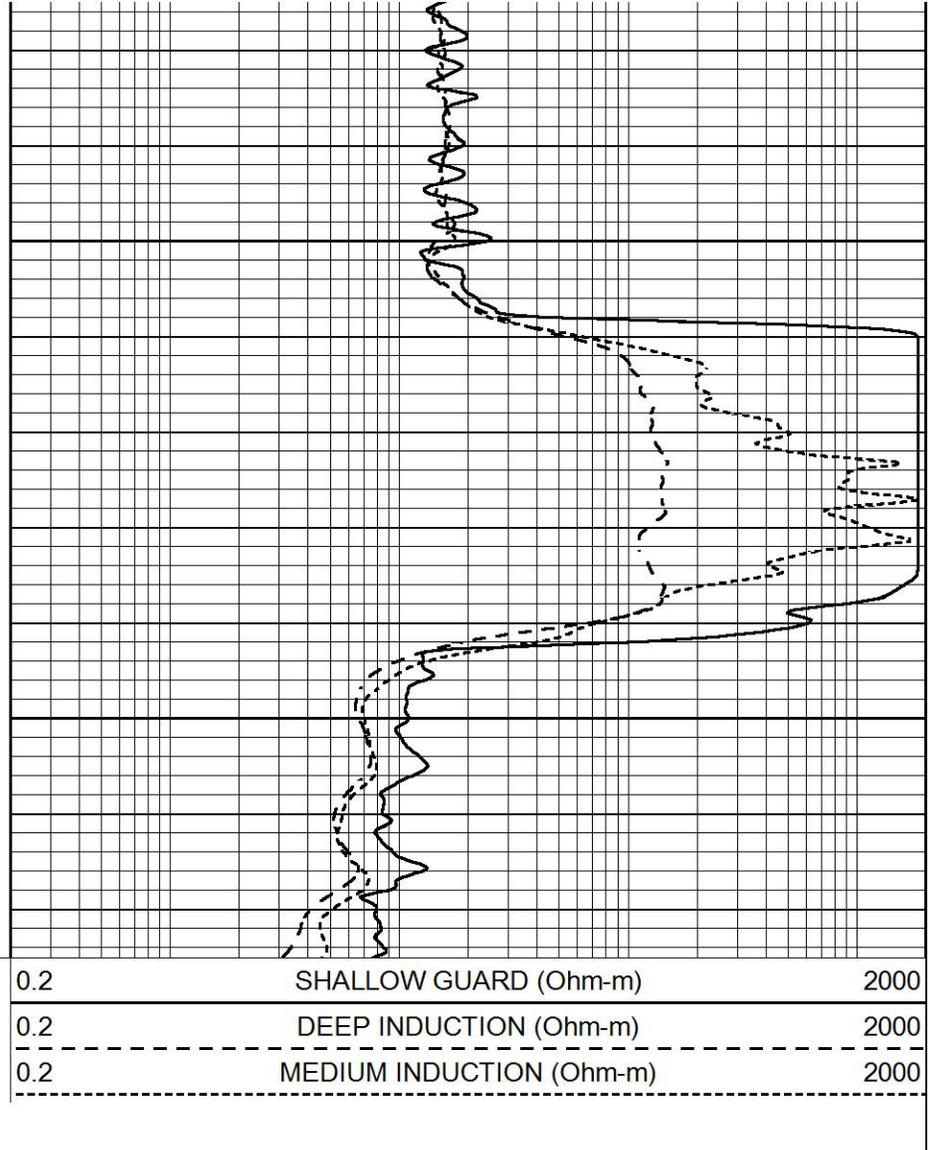
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 Presentation Format      \_dil  
 Dataset Creation      Thu Sep 30 21:31:49 2021  
 Charted by      Depth in Feet scaled 1:240

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			



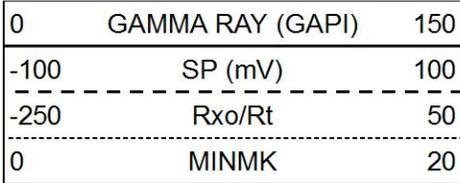
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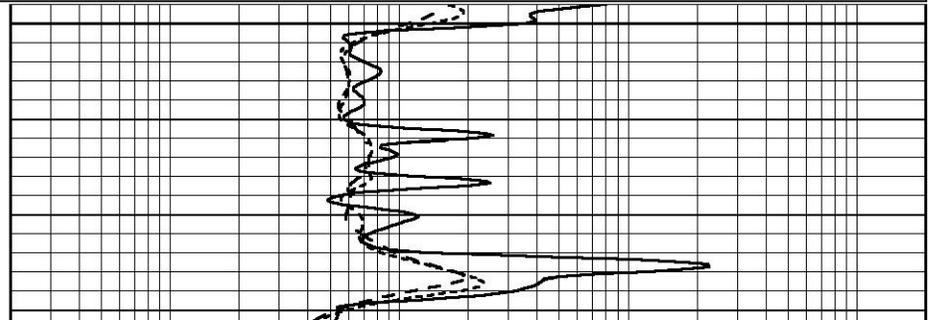
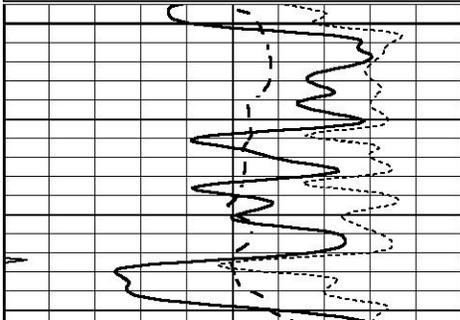
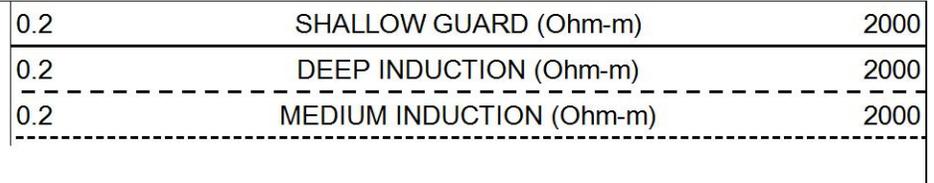


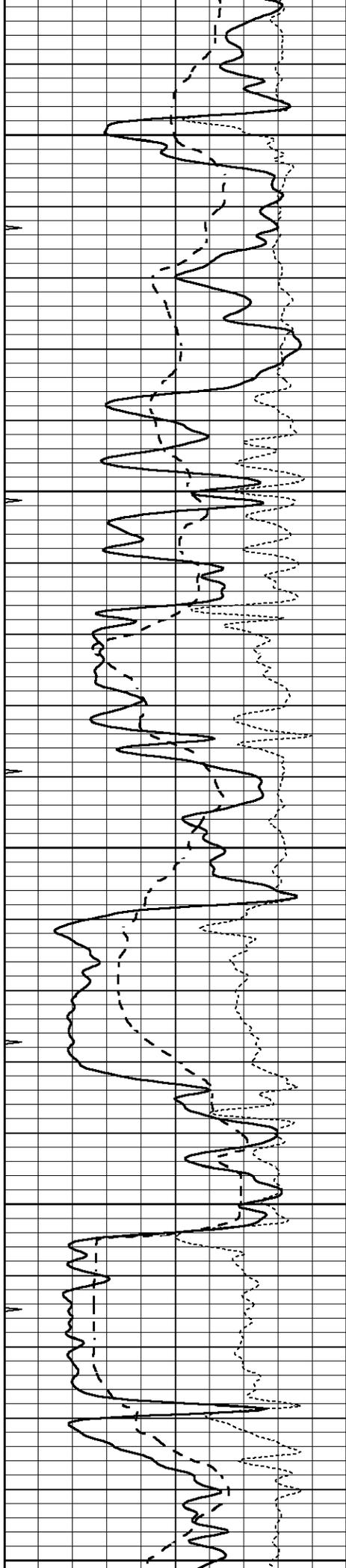
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 Dataset Creation Thu Sep 30 21:05:43 2021  
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4000





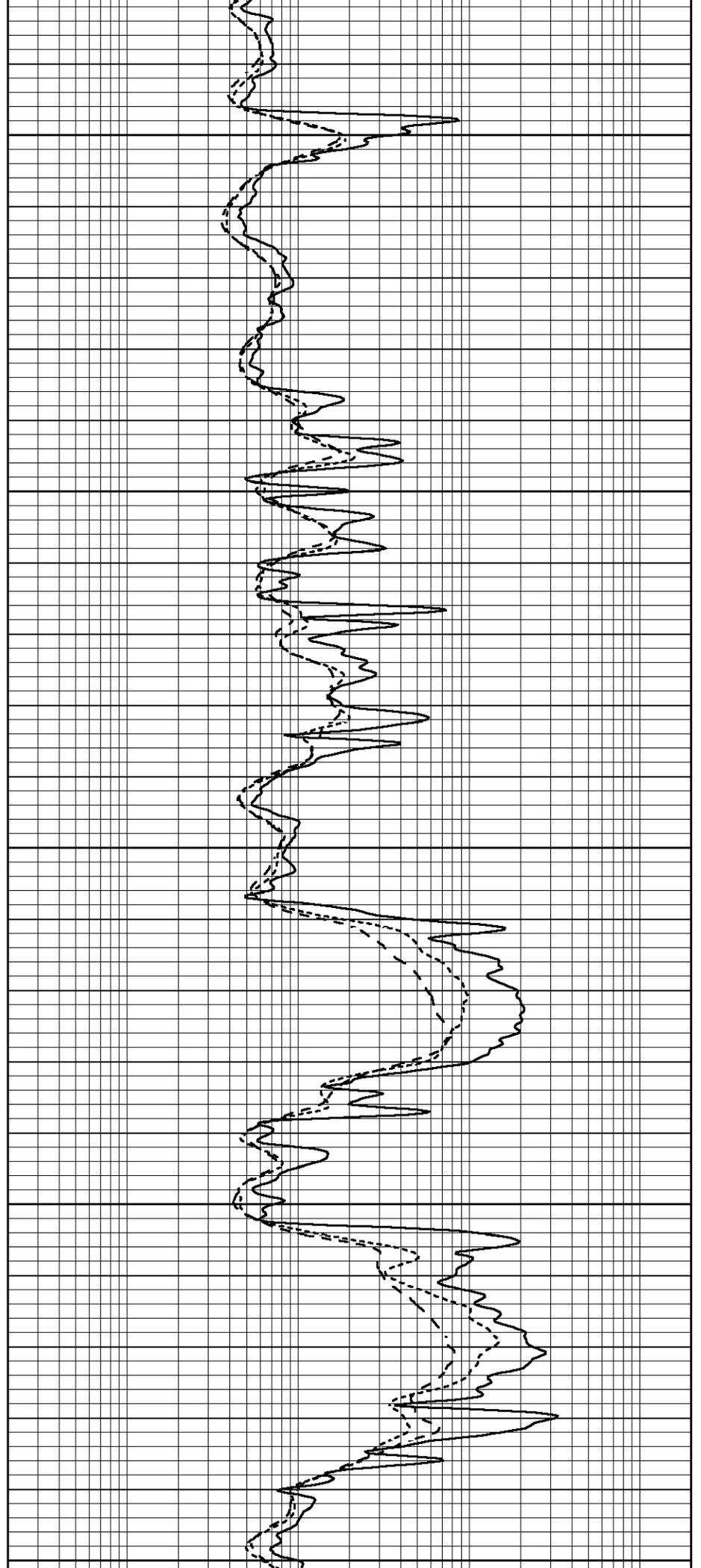
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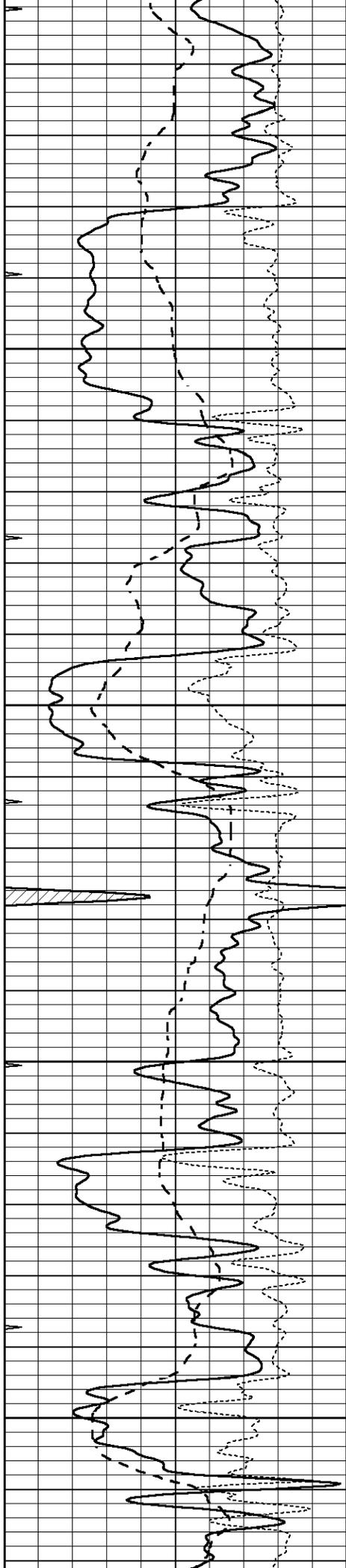
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4150

4200

4250



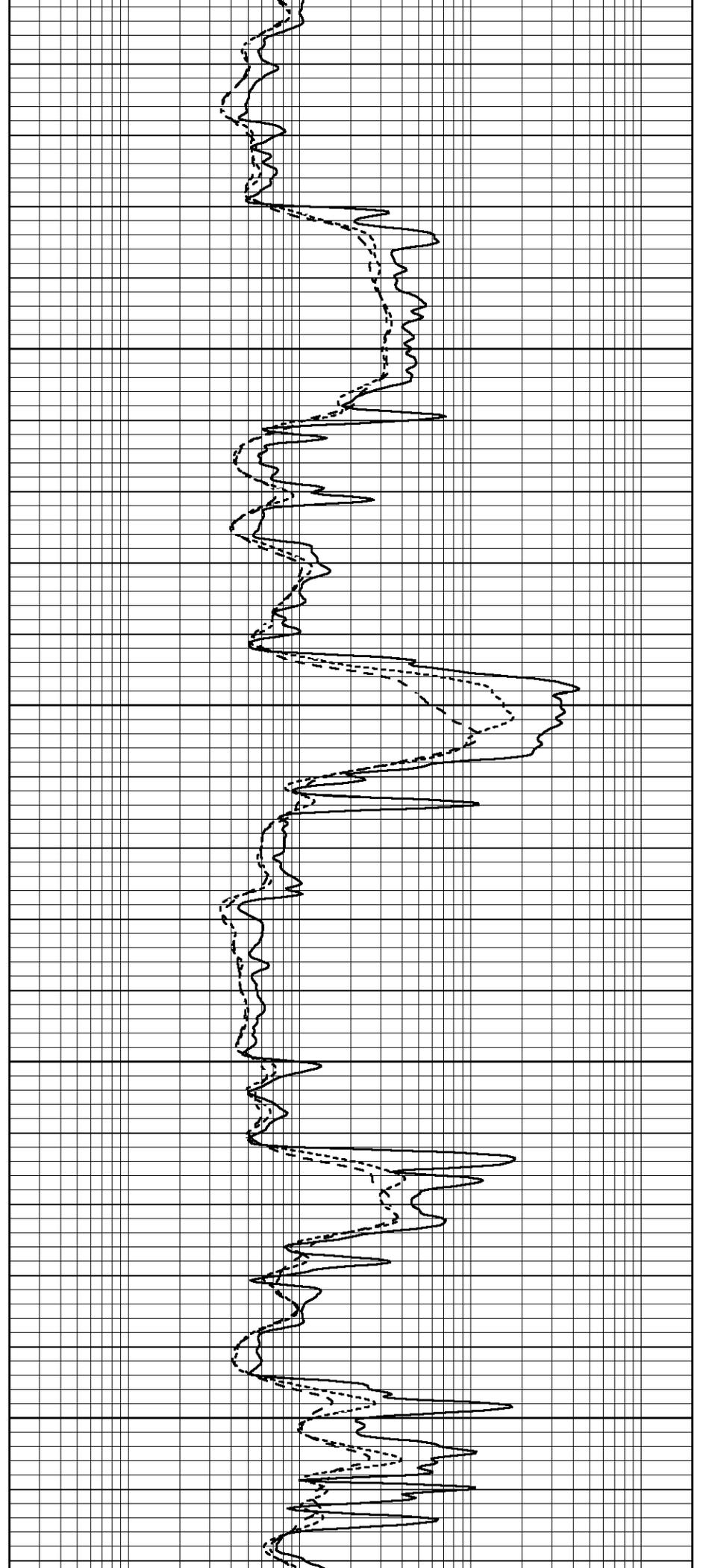


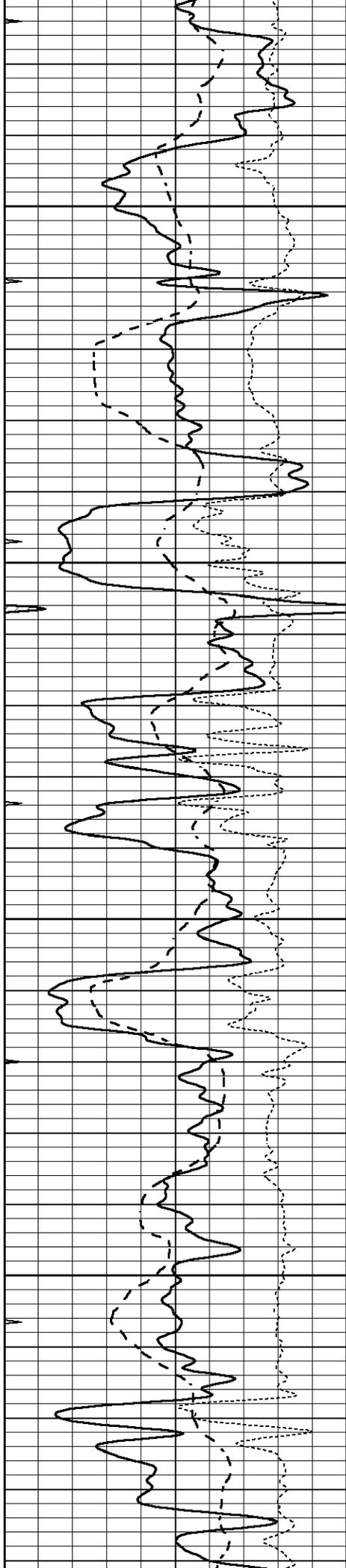
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4400

4450



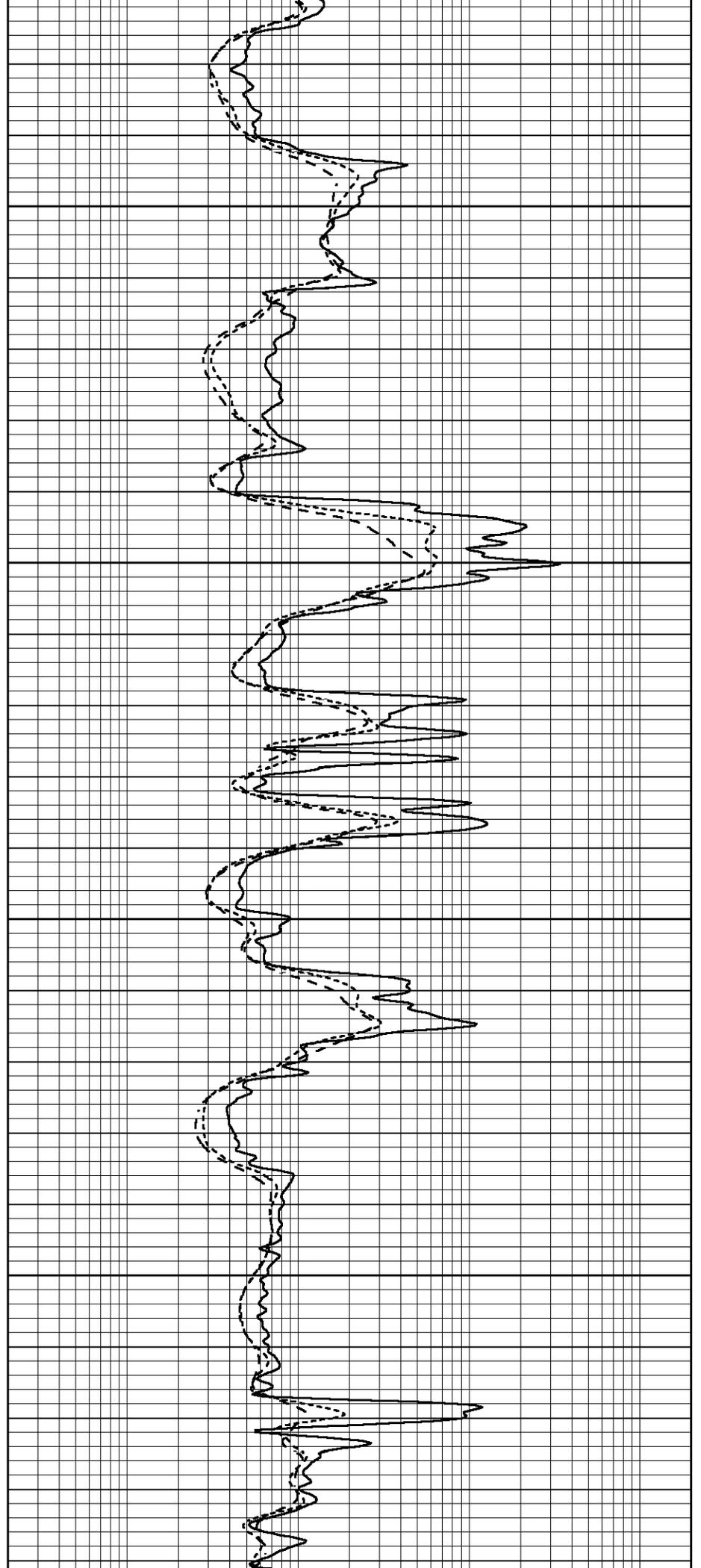


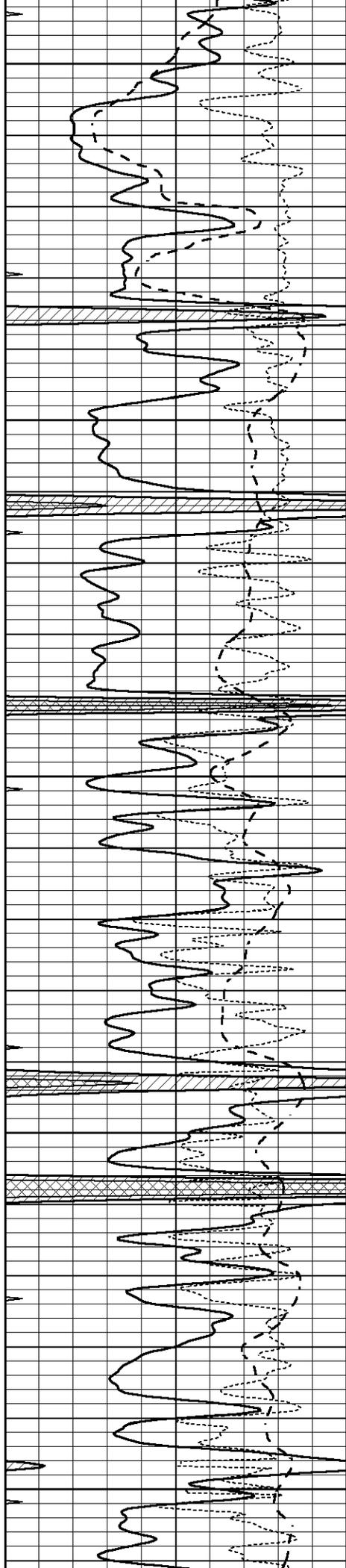
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4600

4650





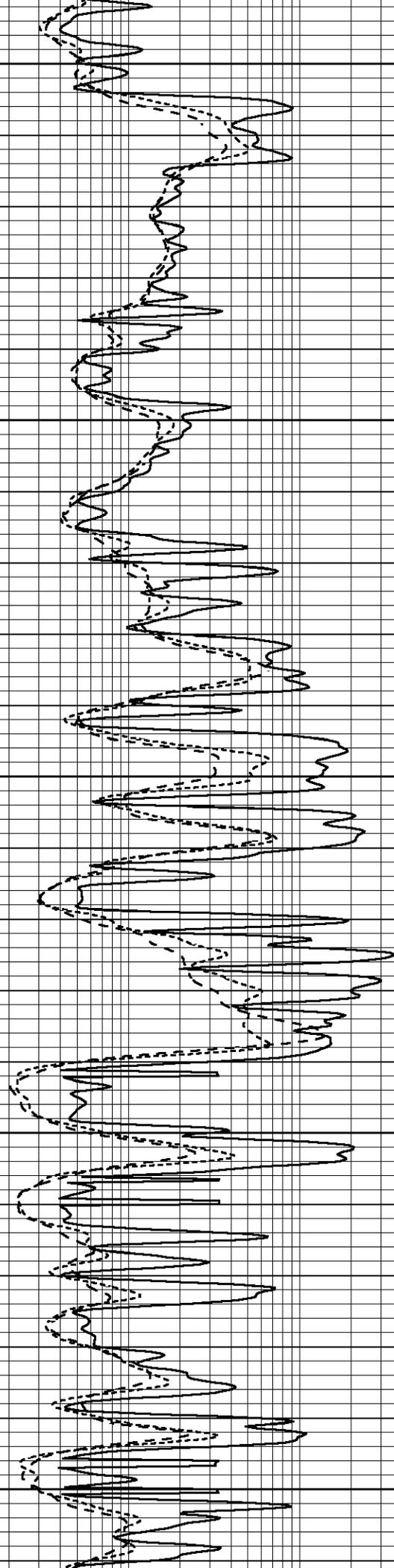
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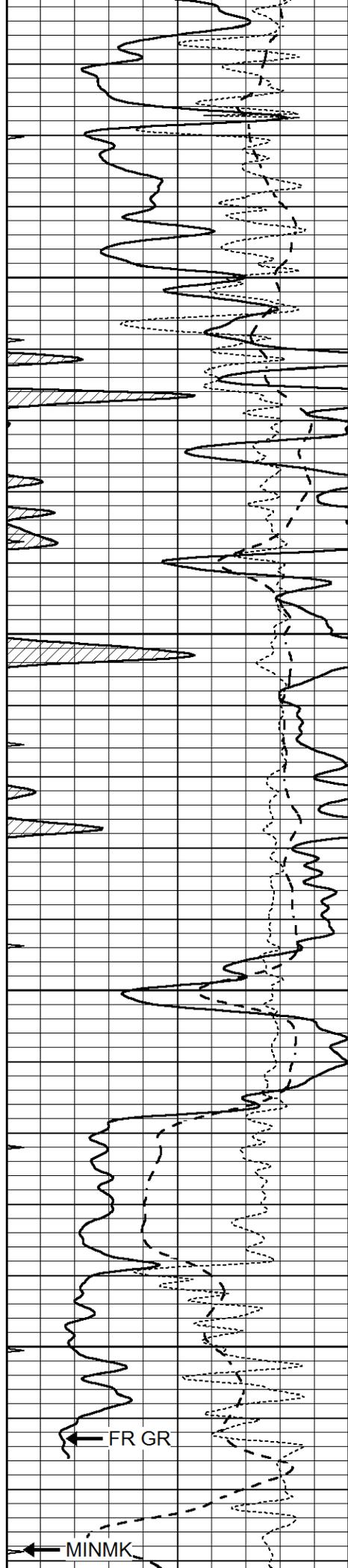
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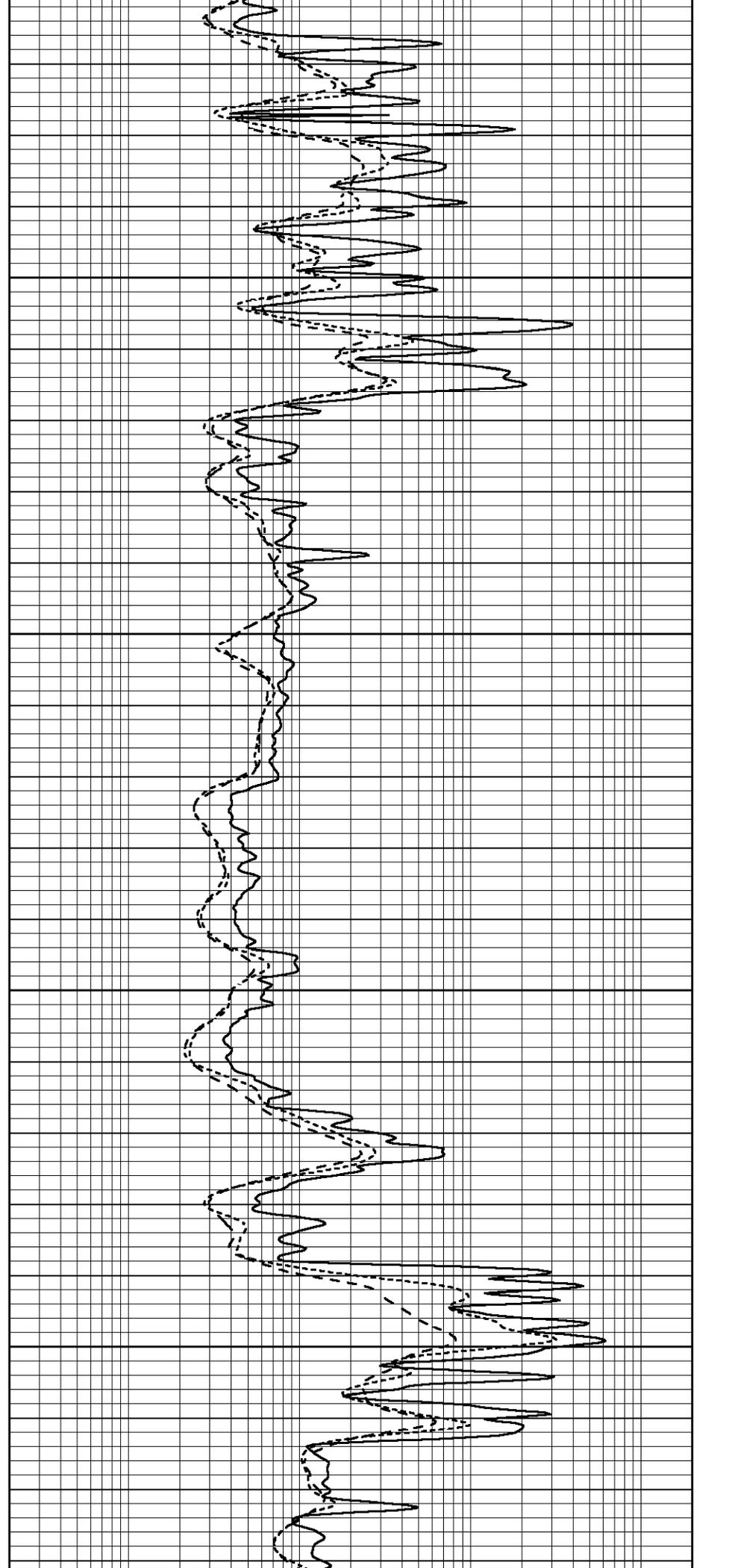
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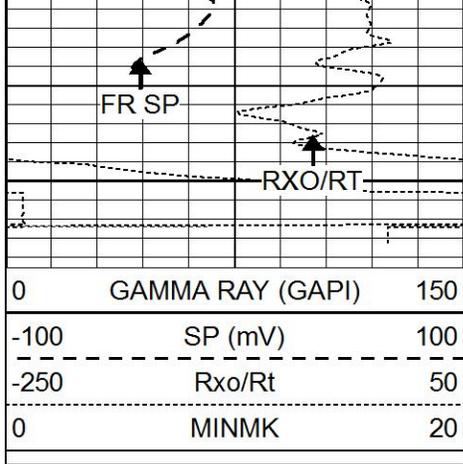
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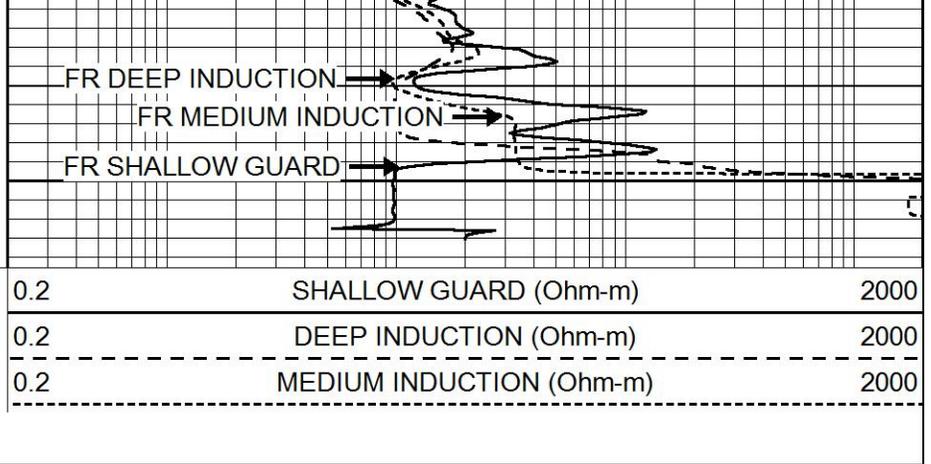
FR GR

MINMK



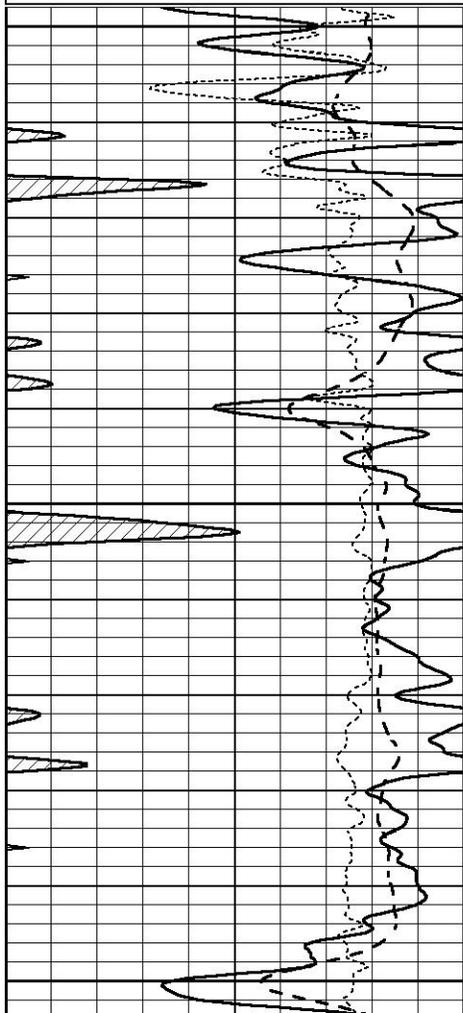
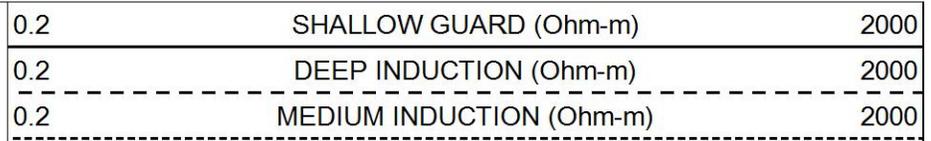
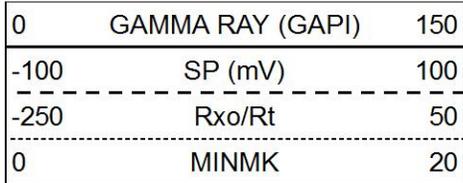


5150  
LTD 5151



# REPEAT SECTION

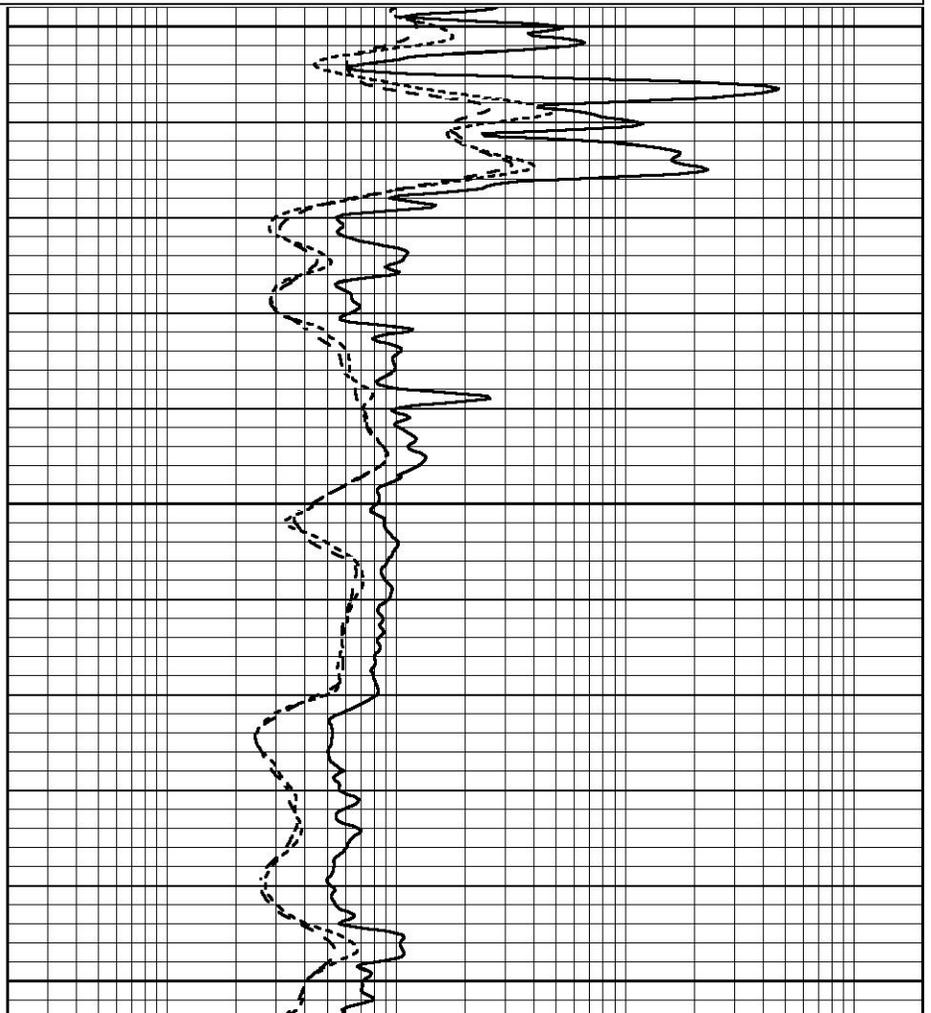
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 Dataset Pathname pass2.2R  
 Presentation Format \_dil  
 Dataset Creation Thu Sep 30 21:25:04 2021  
 Charted by Depth in Feet scaled 1:240



4950

5000

5050





	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	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		
		0.000	mmho-m		4000.000	mmho-m		

Litho Density Calibration Report  
Serial: 003      Model: PRB

Master Calibration		Performed Fri Mar 05 10:51:07 2021					
	Background	Magnesium	Aluminum	Aluminum+Fe			
Window 1	1570.6	10682.1	3457.0	3096.9			cps
Window 2	1451.7	9432.7	3101.4	2816.5			cps
Window 3	1334.0	7160.6	2532.0	2369.3			cps
Window 4	370.4	373.1	366.4	370.9			cps
Long Space	0.0	7981.0	1649.7	1364.8			cps
Short Space	2.8	3522.0	2211.0	1823.6			cps
Rho		1.7100	2.5900	0.0000			g/cc
Pe		2.0000	2.7500	5.7900			
Rib Angle	: 43.5	Rib Slope	: 0.951	Density/Spine Ratio			: 0.535
Spine Angle	: 73.5	Spine Slope	: 3.386	Spine Intercept			: -18.7

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

Compensated Neutron Calibration Report

Serial Number: 070808PMC  
Tool Model: NABORS

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	070558	
Tool Model:	OPEN_GR	
Performed:	Fri Sep 03 05:25:49 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2800	GAPI/cps