



DUAL INDUCTION LOG

Company				ABERCROMBIE ENERGY, LLC.					
Well				#1-6 VASQUEZ					
Field				UNNAMED					
County				TREGO		State		KANSAS	
Location:				API # : 15-195-23145-0000 770' FSL & 1010' FEL SW - NW - SE - SE				Other Services CDL/CNL/PE MEL	
Permanent Datum				GROUND LEVEL		Elevation		2453	
Log Measured From				KELLY BUSHING 5' A.G.L.					
Drilling Measured From				KELLY BUSHING					
SEC 6				TWP 13S		RGE 23W			
Date				8/16/22					
Run Number				ONE					
Depth Driller				4400					
Depth Logger				4400					
Bottom Logged Interval				4398					
Top Log Interval				00					
Casing Driller				8 5/8"@218'					
Casing Logger				218					
Bit Size				7 7/8"					
Type Fluid in Hole				CHEMICAL MUD		CHLORIDES 4,400 PPM			
Density / Viscosity				9.1/55					
pH / Fluid Loss				10.0/6.0					
Source of Sample				FLOWLINE					
Rm @ Meas. Temp				.900@84F					
Rmf @ Meas. Temp				.675@84F					
Rmc @ Meas. Temp				1.08@84F					
Source of Rmf / Rmc				MEASUREMENT					
Rm @ BHT				.630@120F					
Time Circulation Stopped				2 HOURS					
Time Logger on Bottom				3:00 P.M.					
Maximum Recorded Temperature				120F					
Equipment Number				922339					
Location				HAYS, KANSAS					
Recorded By				JEFF LUEBBERS					
Witnessed By				KEVIN KESSLER					

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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.

15-195-23145-0000

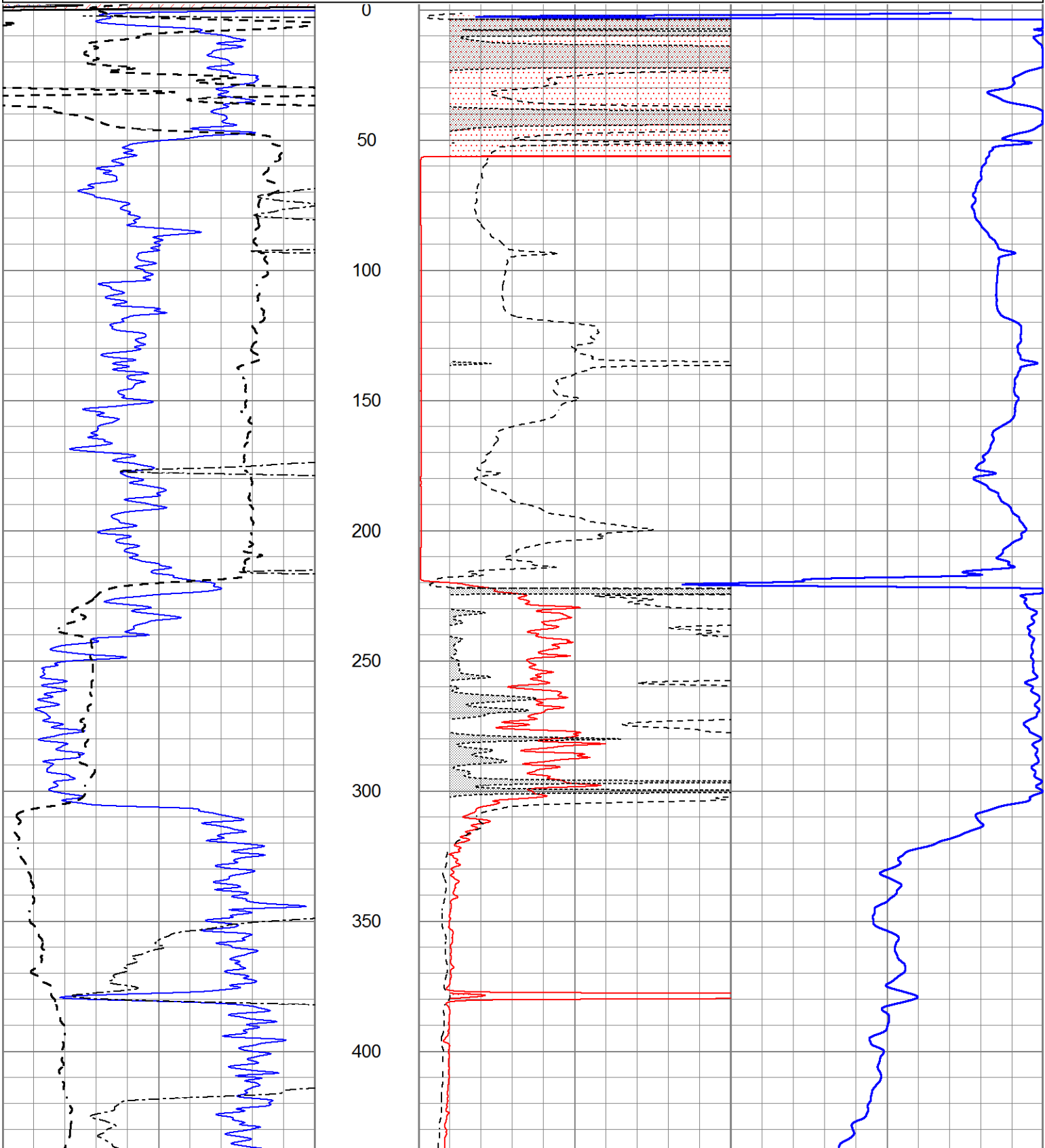
Comments

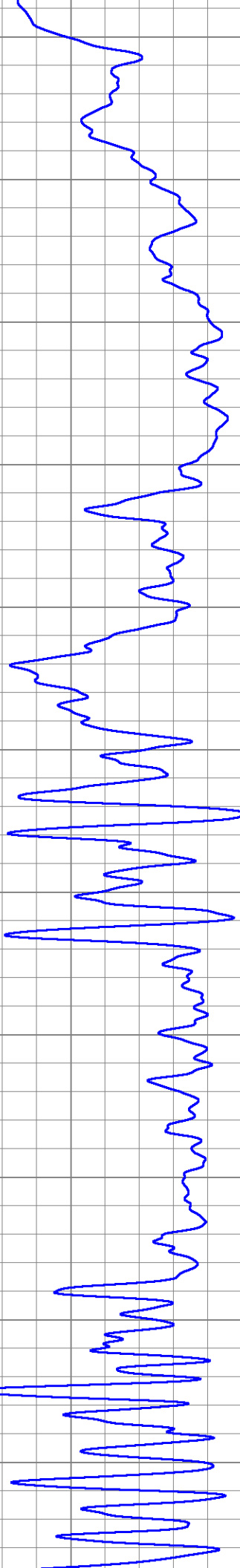
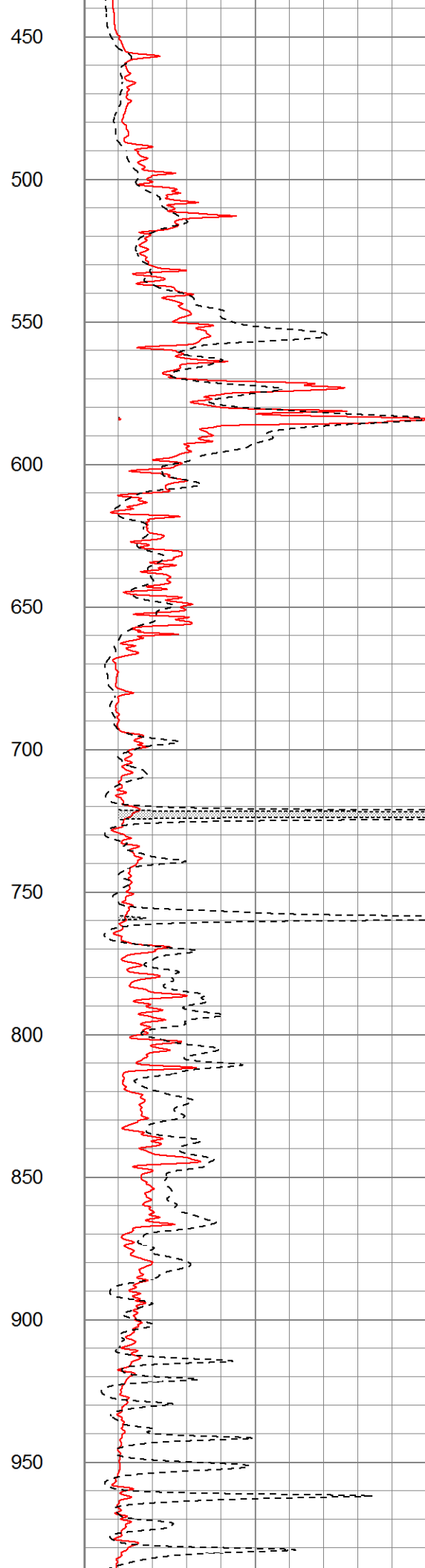
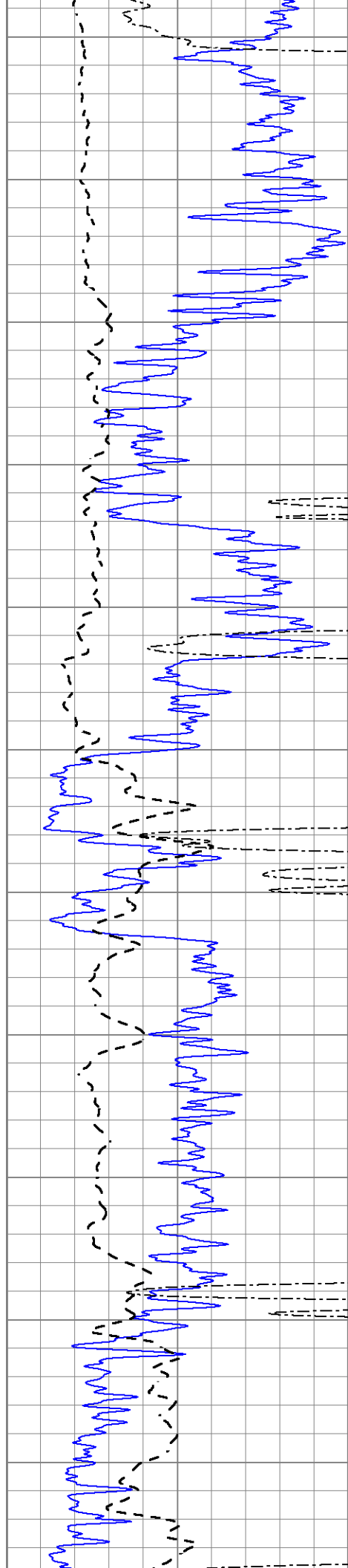
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
WAKEENEY, KS.(I-70 & HWY 283) 5S. ON HWY 283, 1 1/4W., N. INTO

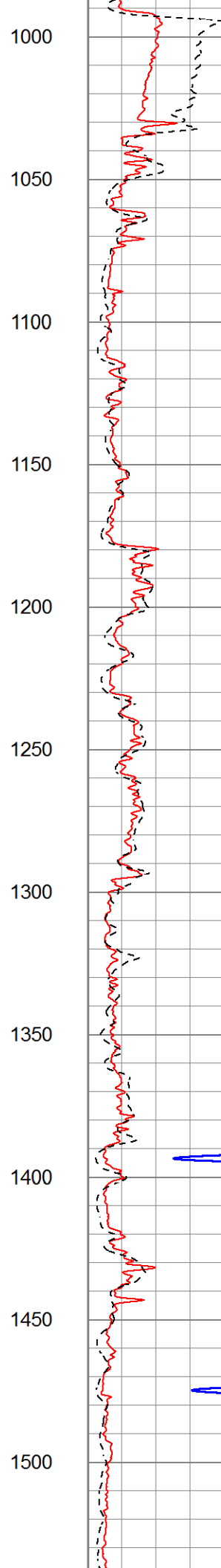
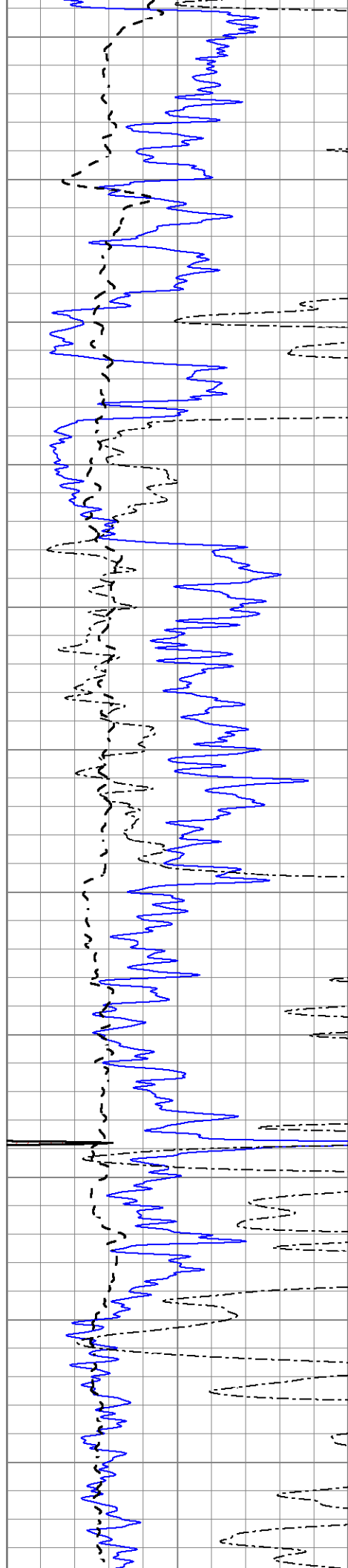


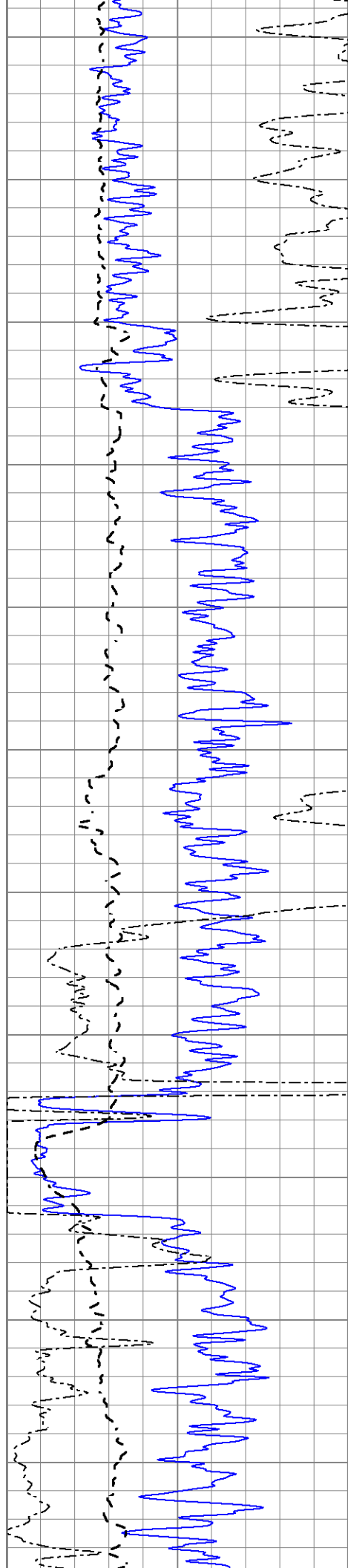
MAIN SECTION

0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
0	RWA (Ohm-m)	1	0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500









1550

1600

1650

1700

1750

1800

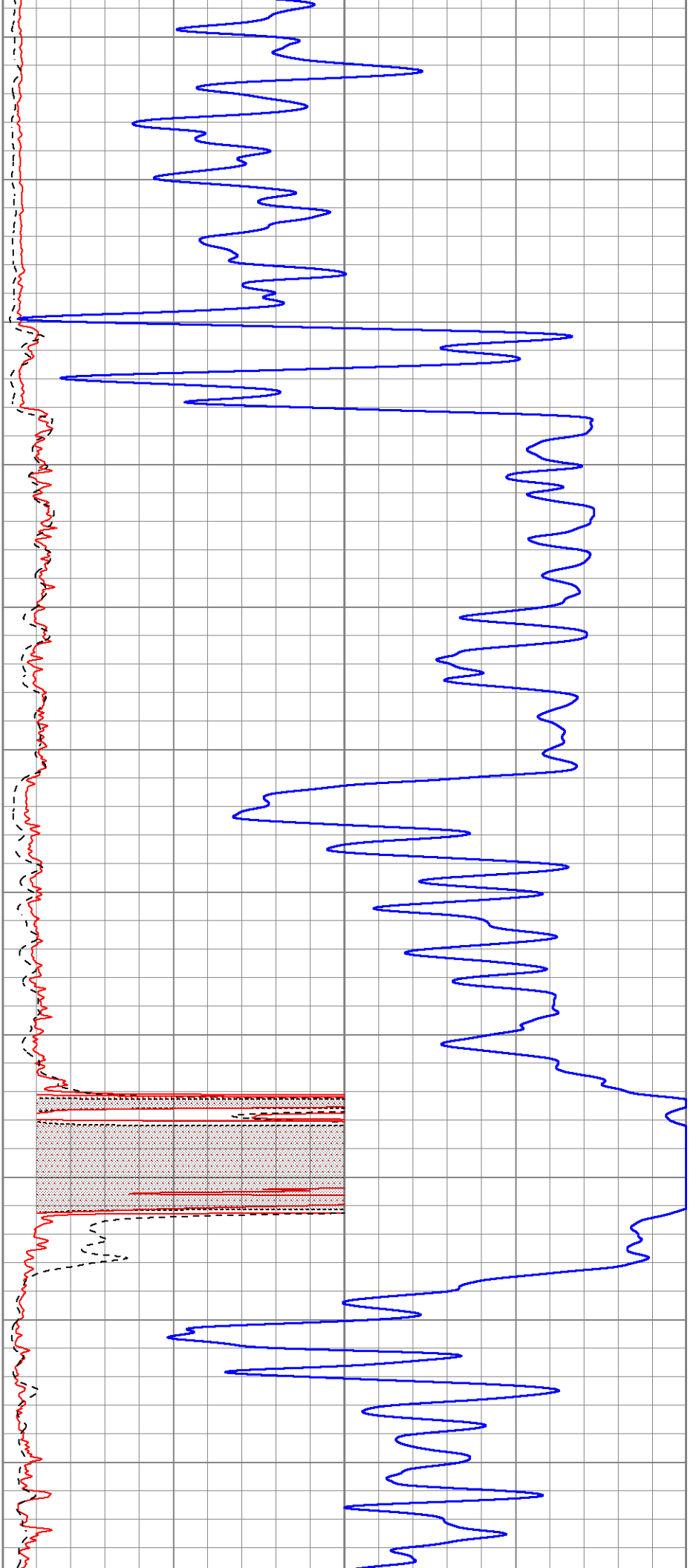
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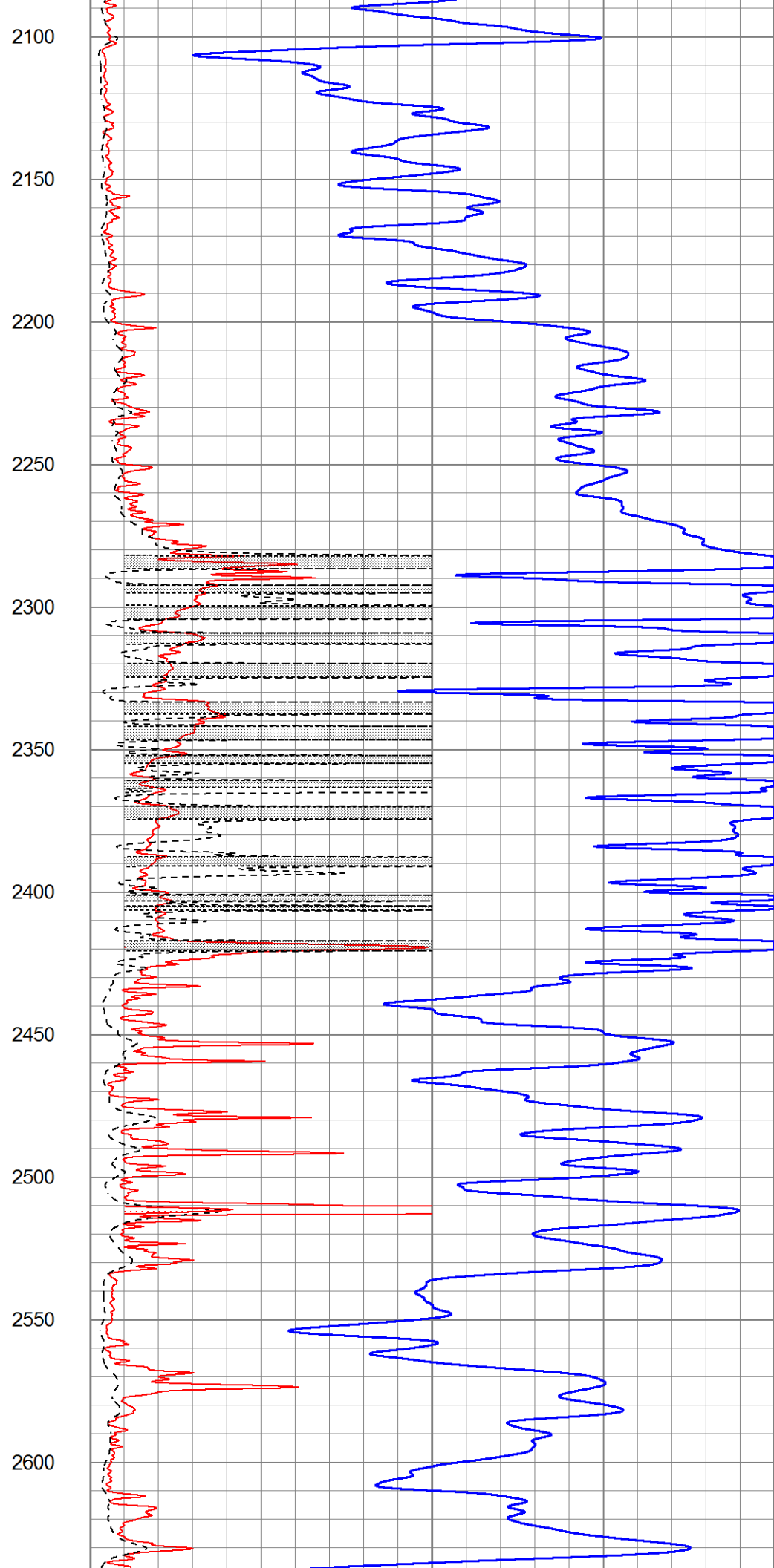
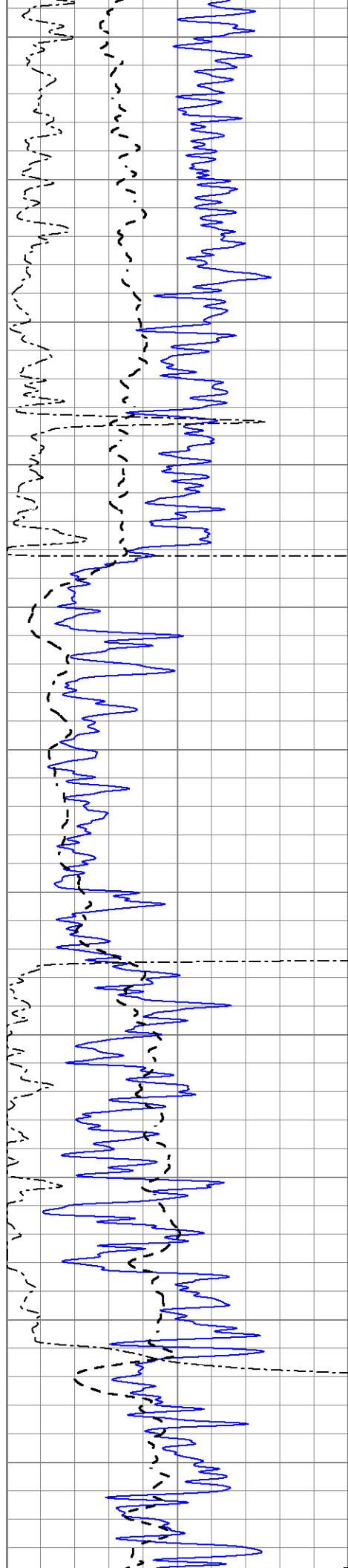
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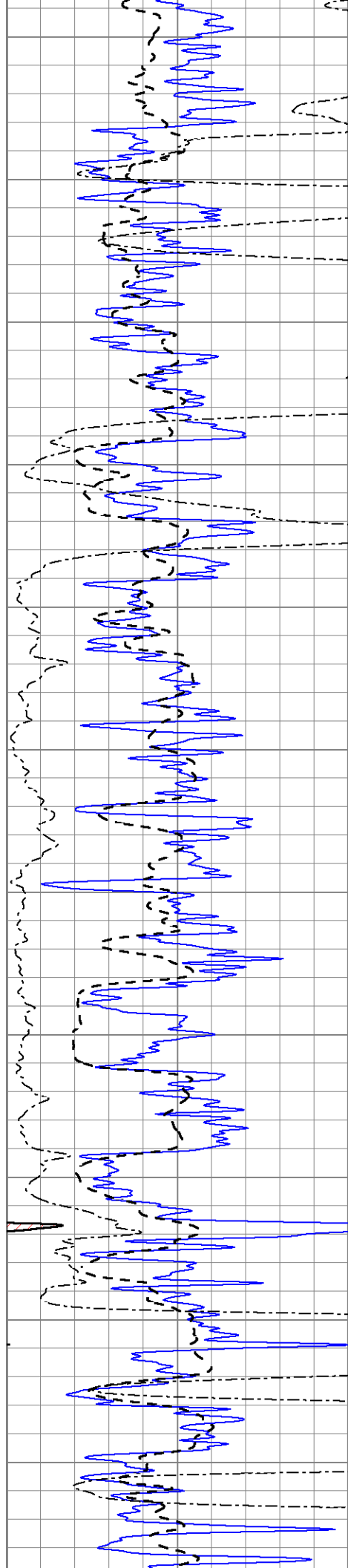
1950

2000

2050







2650

2700

2750

2800

2850

2900

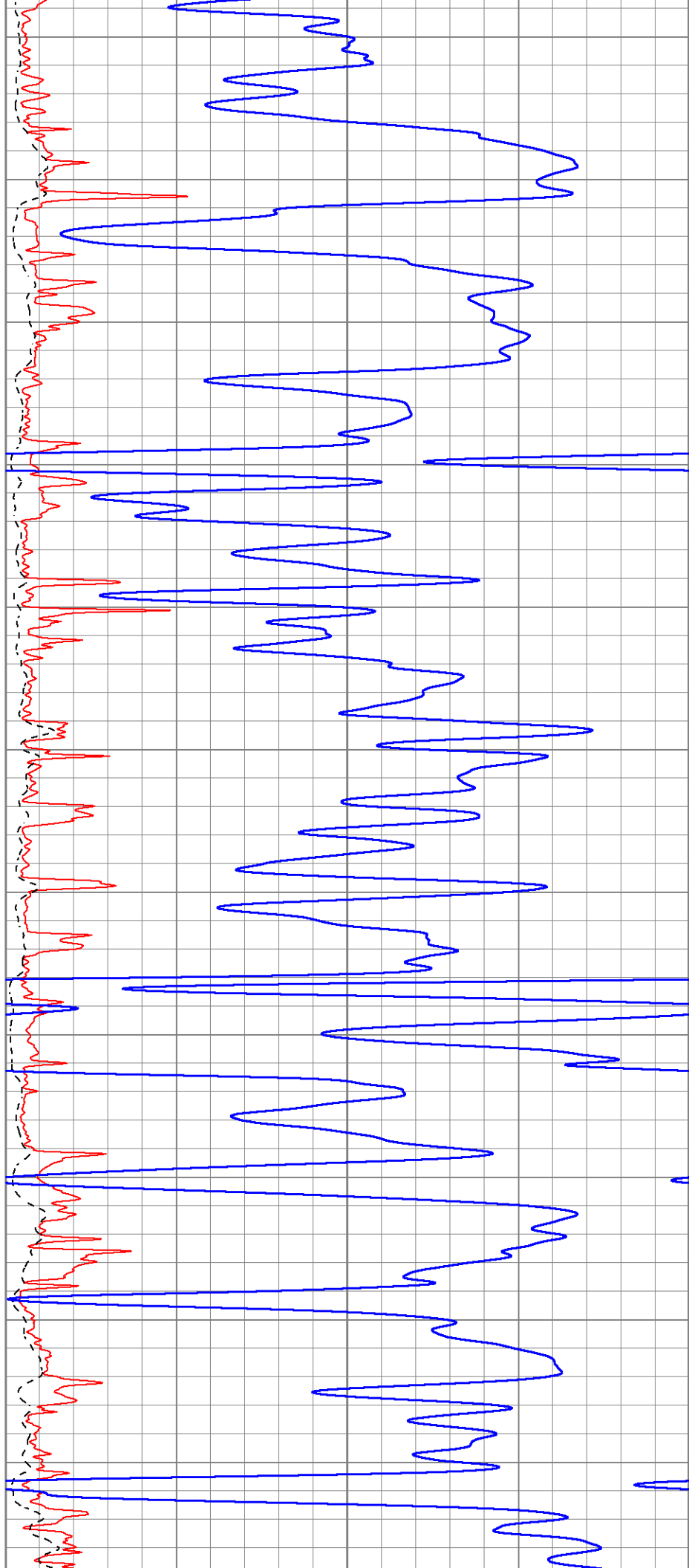
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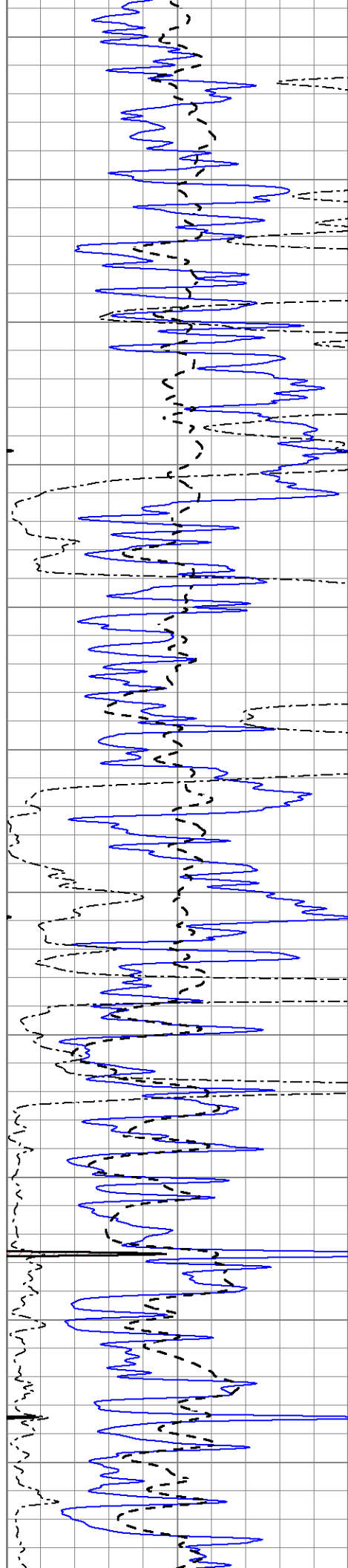
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3050

3100

3150





3200

3250

3300

3350

3400

3450

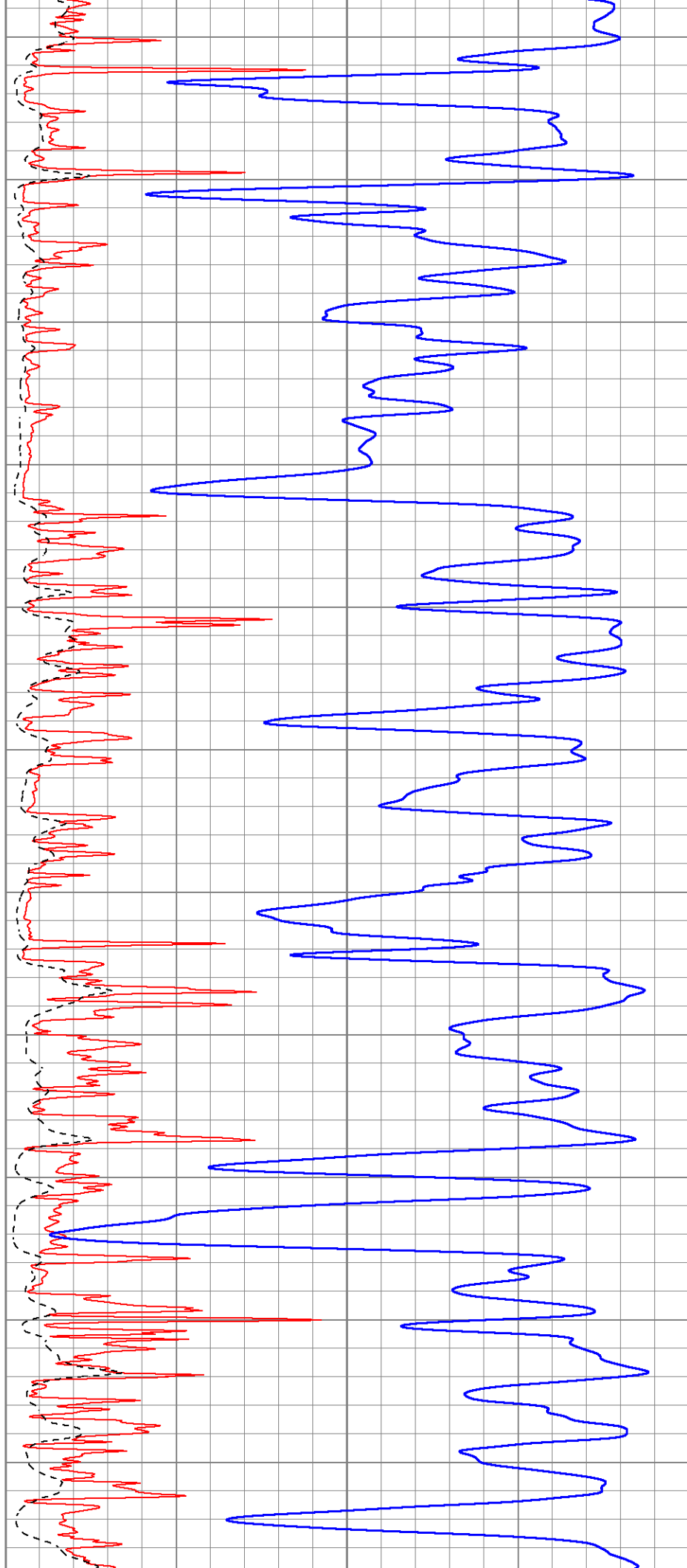
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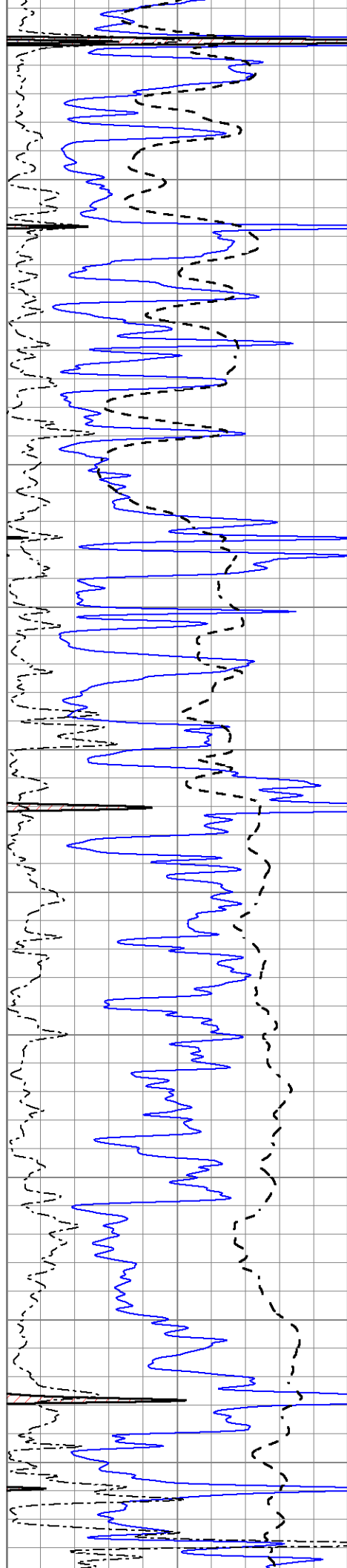
3550

3600

3650

3700





3750

3800

3850

3900

3950

4000

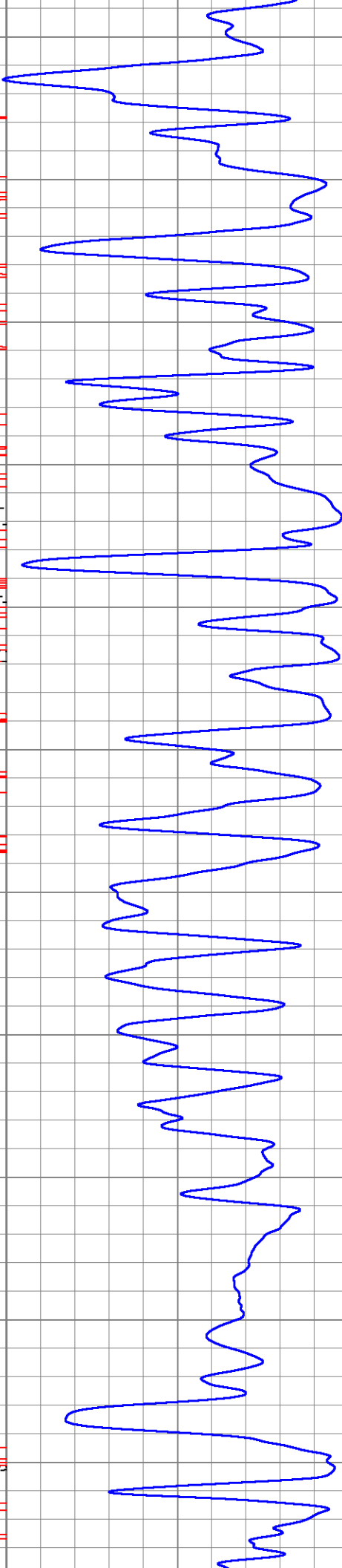
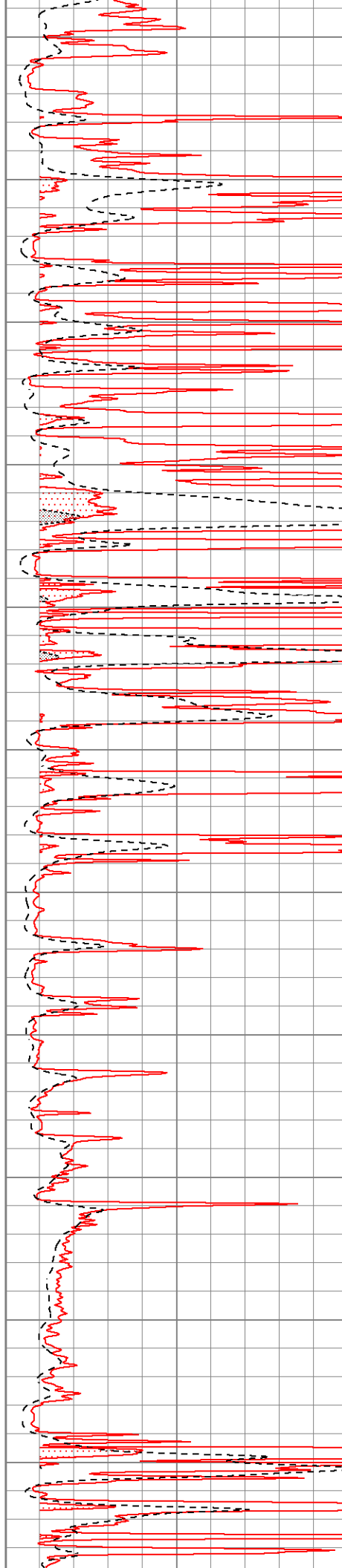
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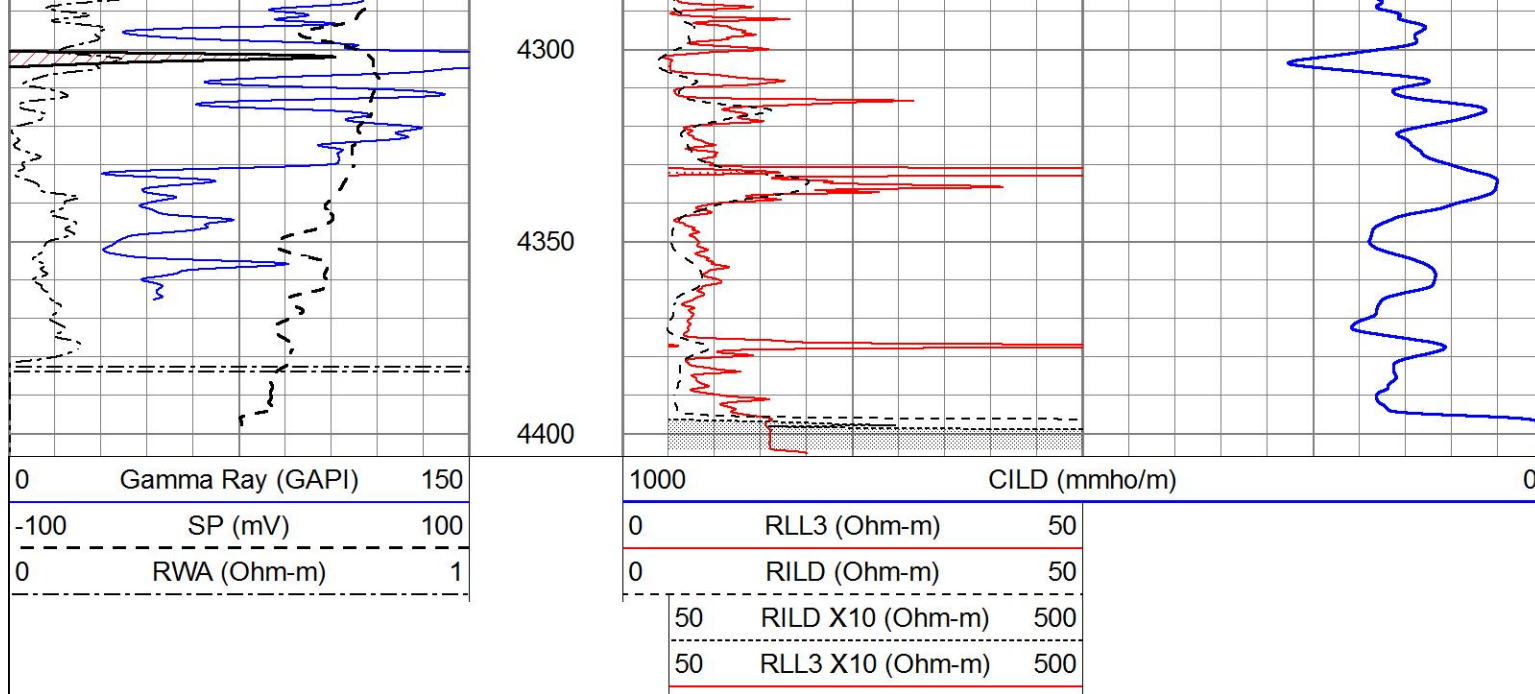
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4150

4200

4250

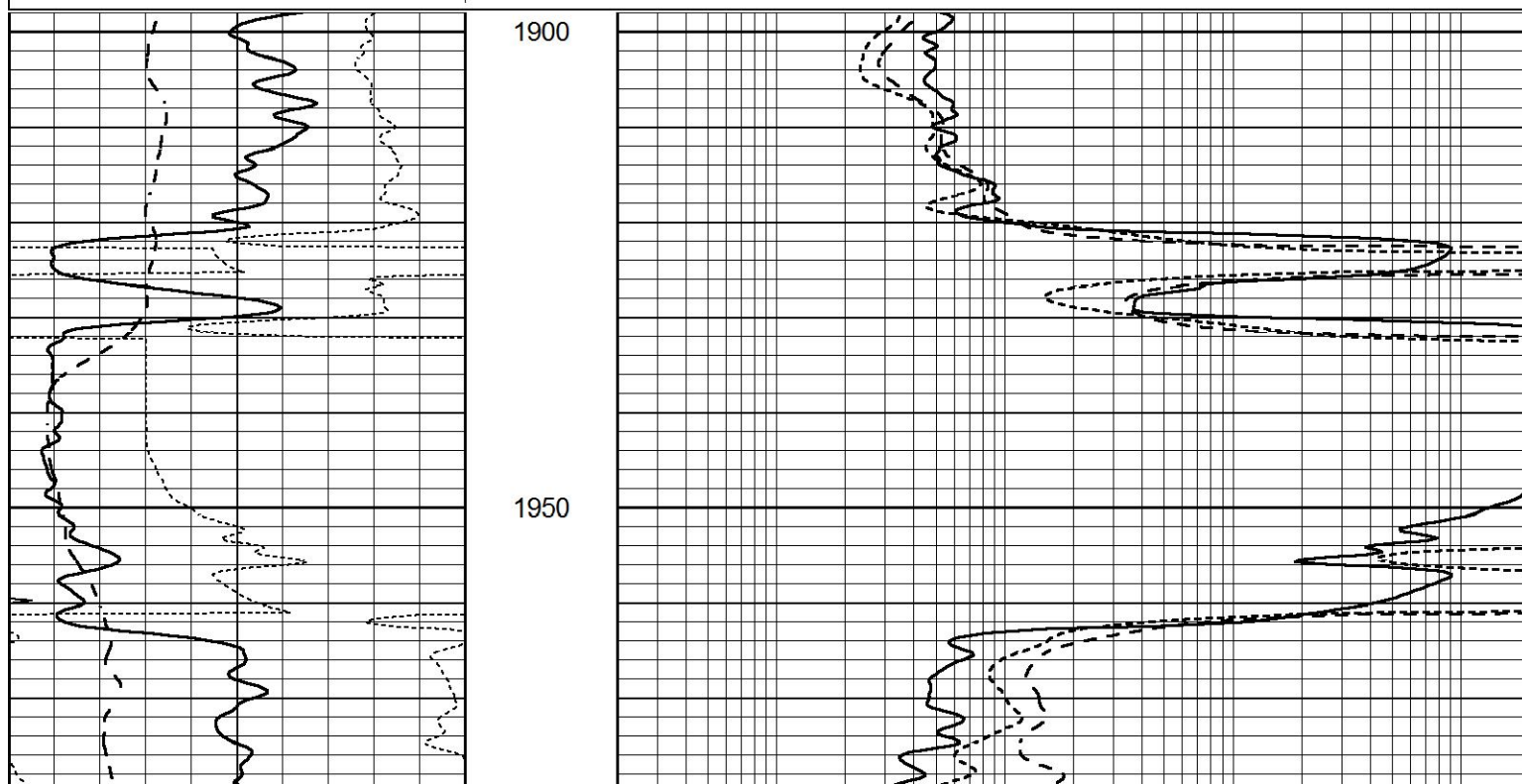


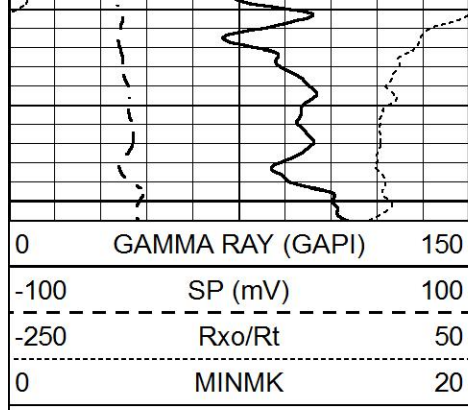


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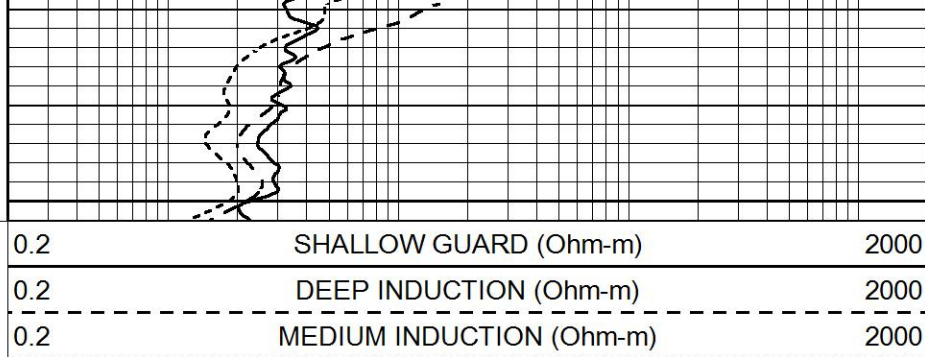
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 Dataset Pathname pass4.1A
 Presentation Format _dil
 Dataset Creation Tue Aug 16 16:36:12 2022
 Charted by Depth in Feet scaled 1:240

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			



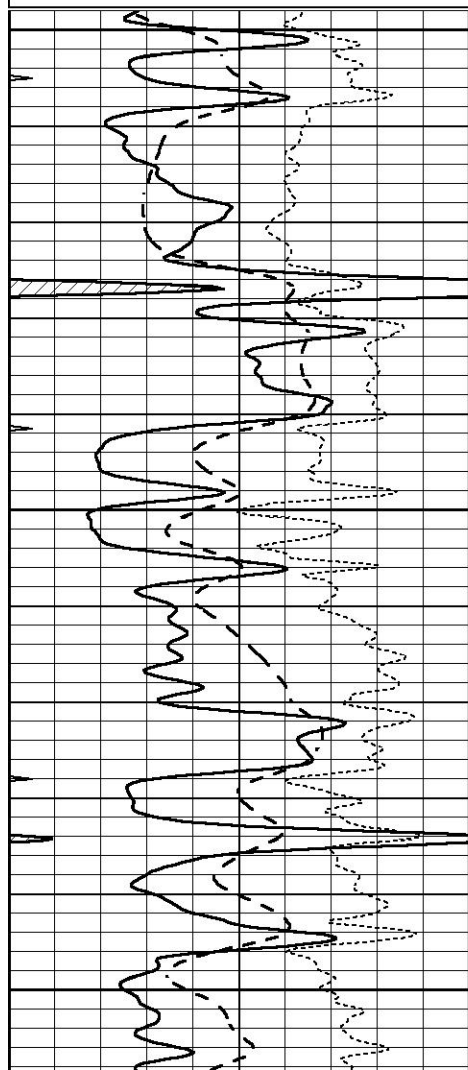
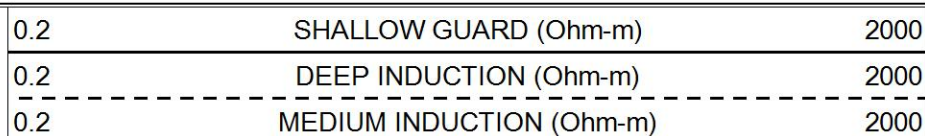
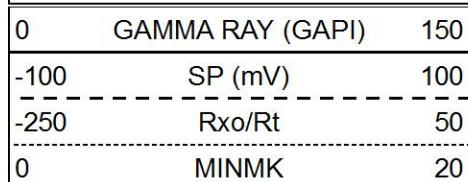


2000

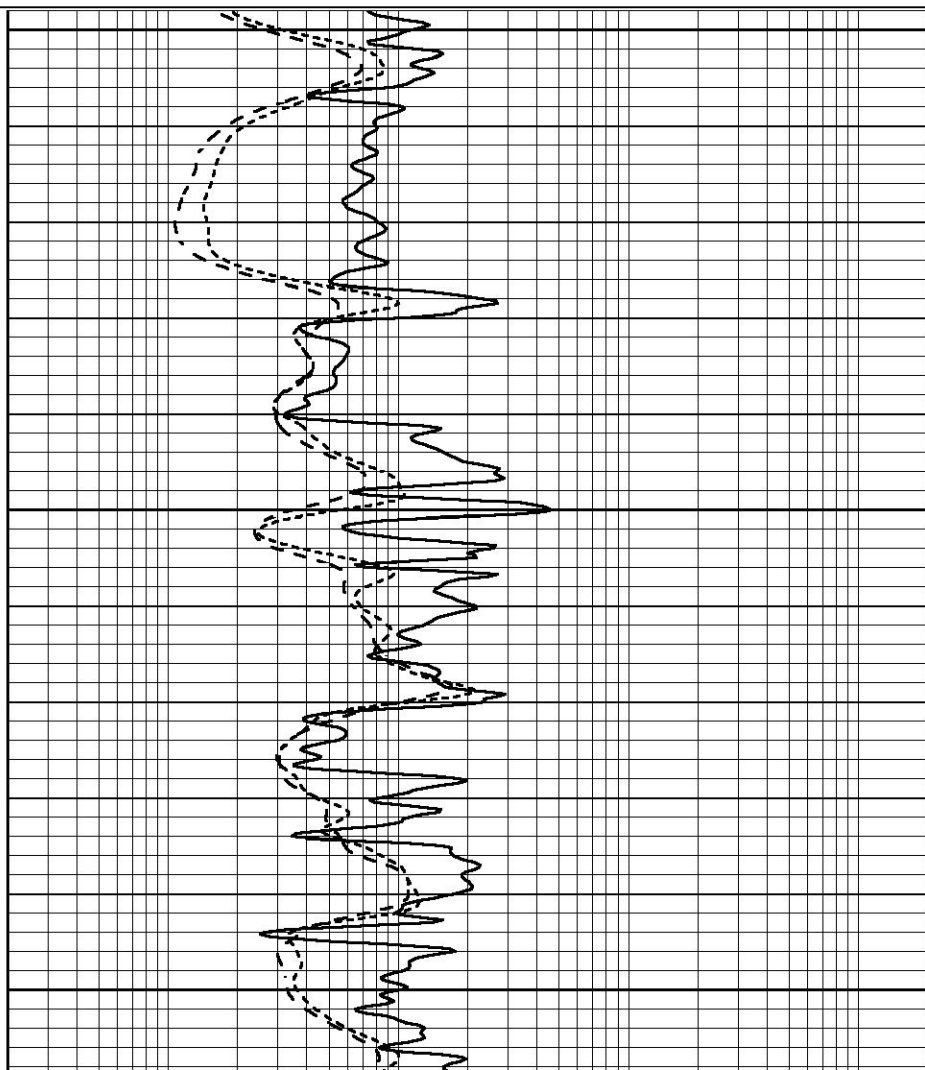


MAIN SECTION

Database File 6903pe.db
 Dataset Pathname pass4.1M
 Presentation Format _dil
 Dataset Creation Tue Aug 16 16:35:52 2022
 Charted by Depth in Feet scaled 1:240

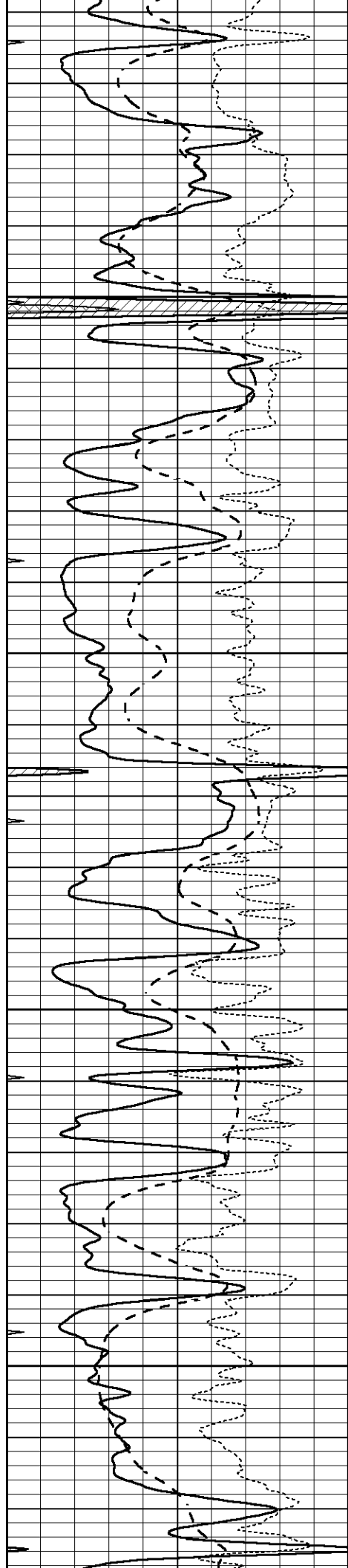


3600



3650

3700

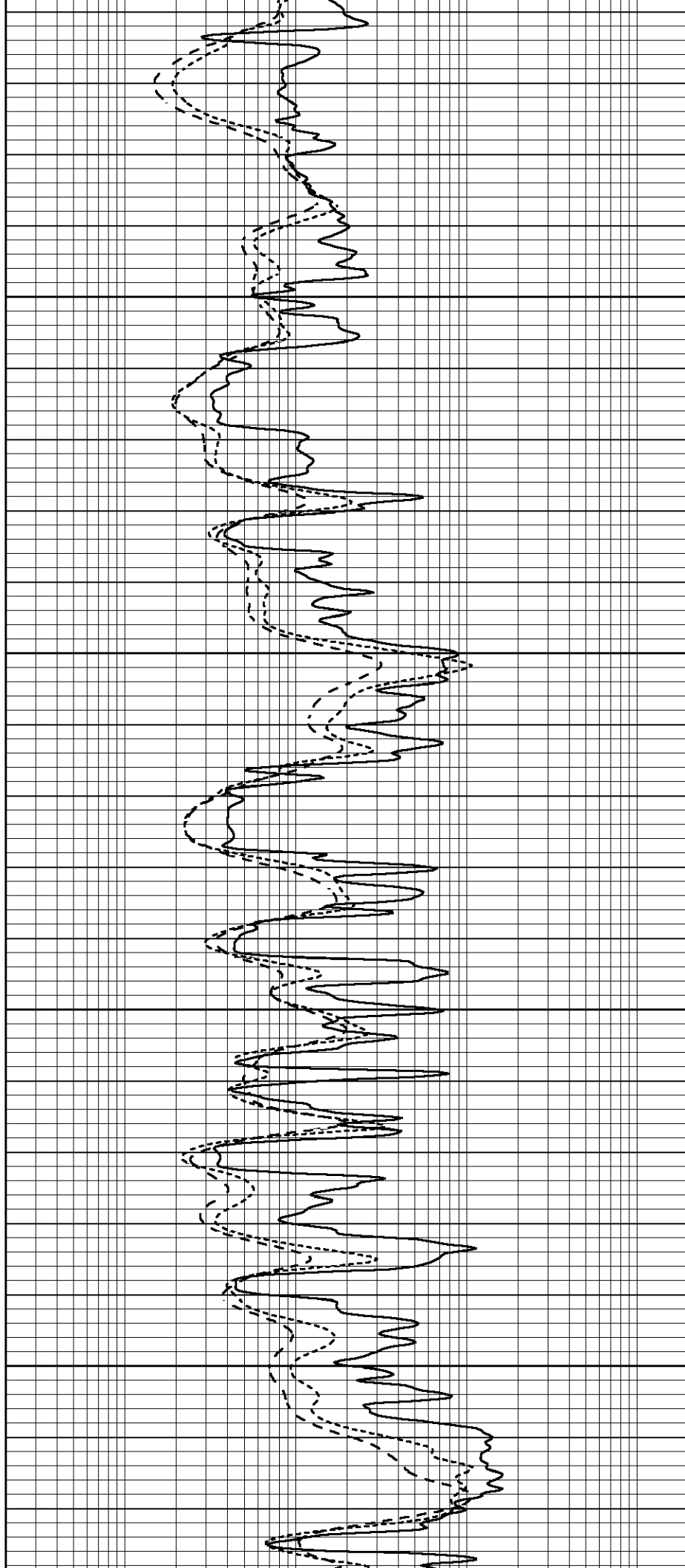


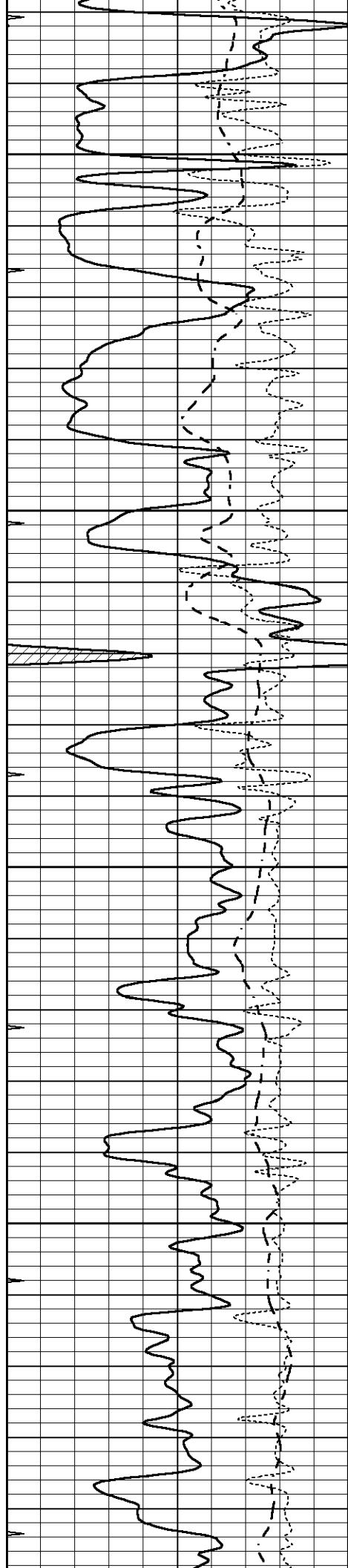
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3800

3850

3900



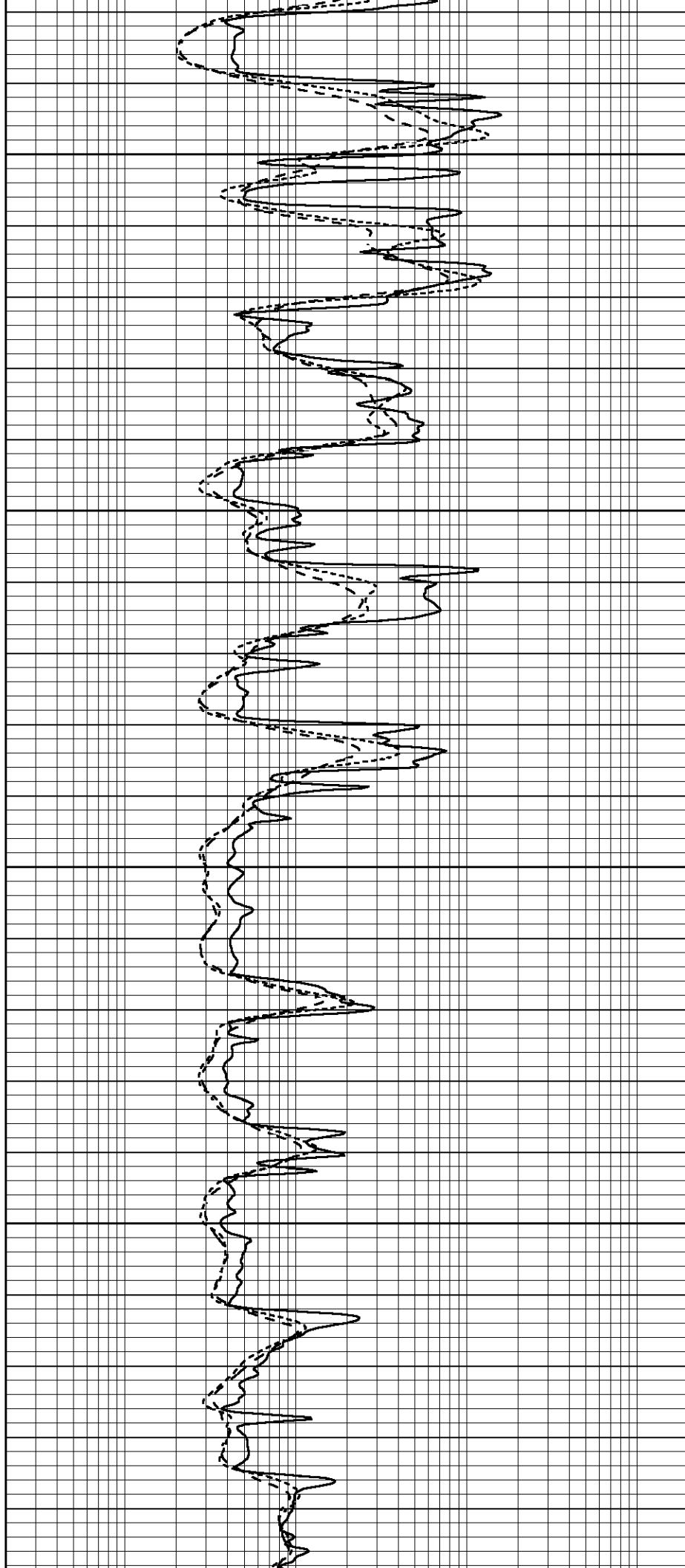


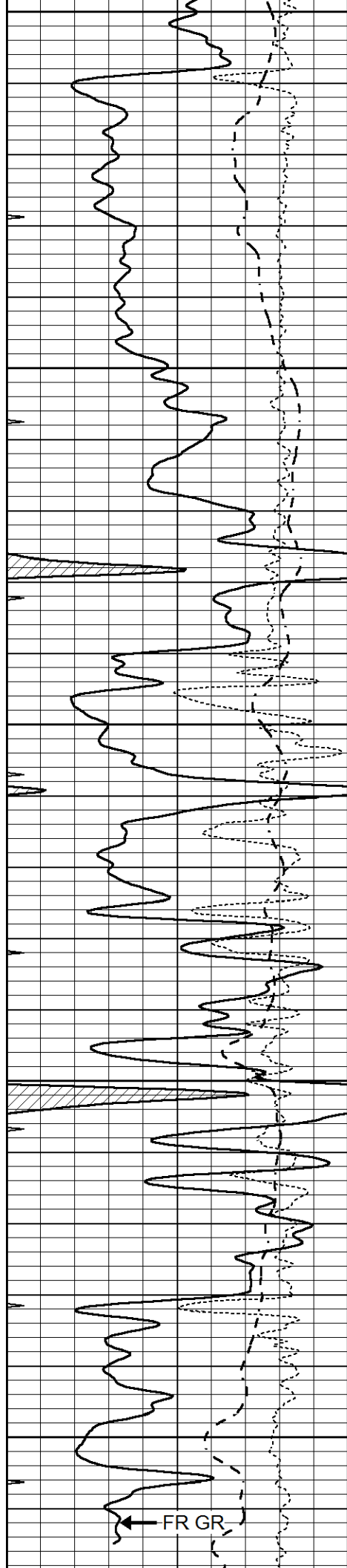
3950

4000

4050

4100





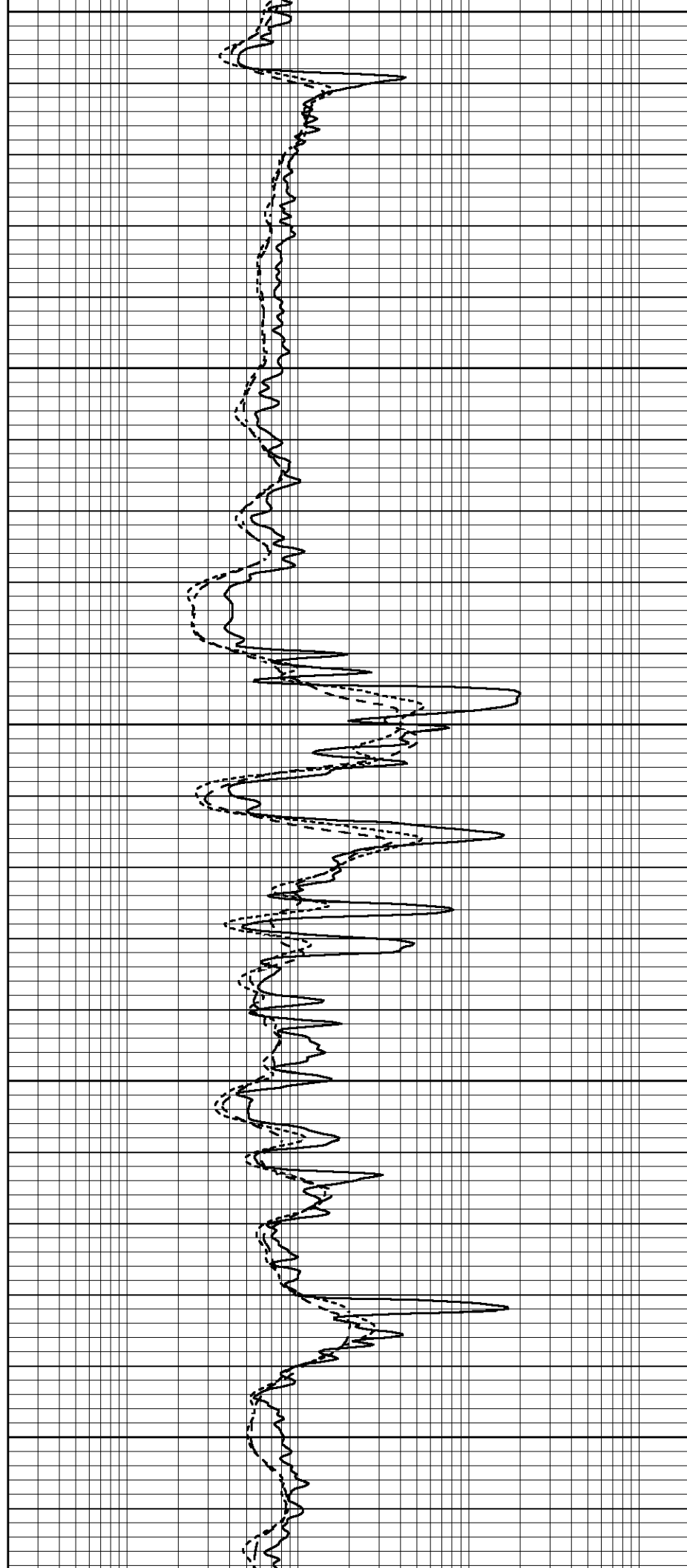
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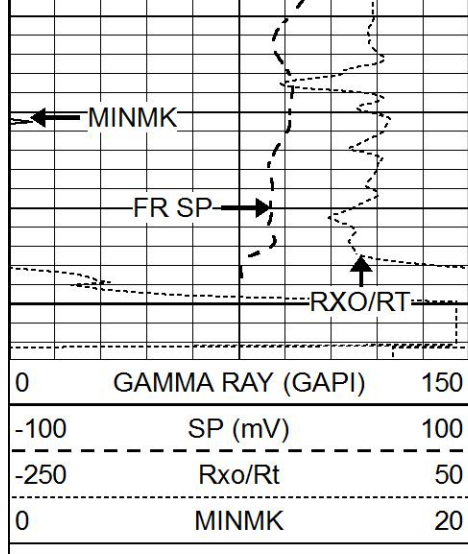
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4250

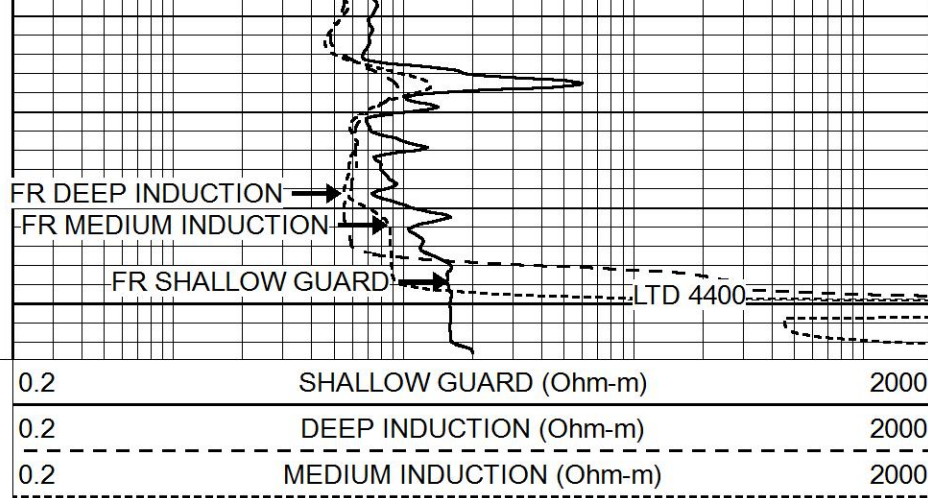
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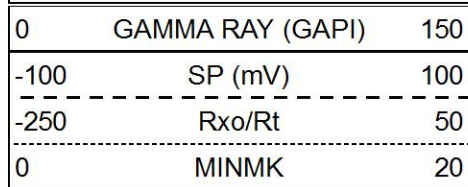


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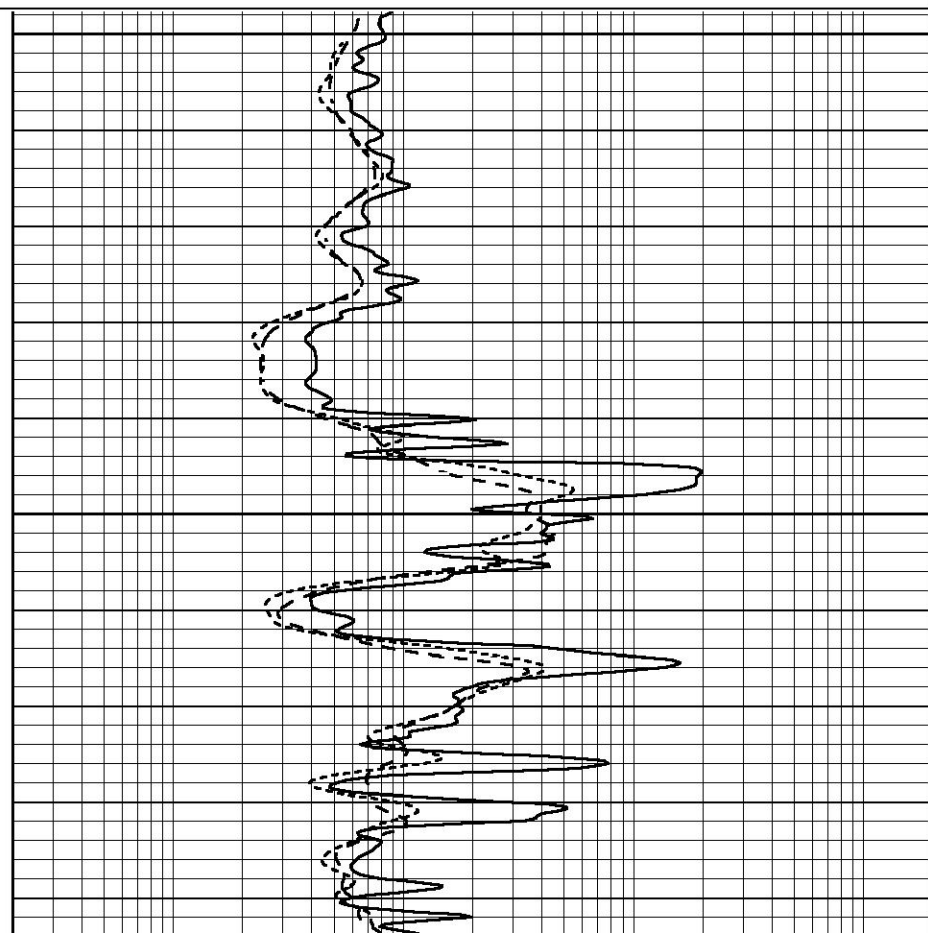
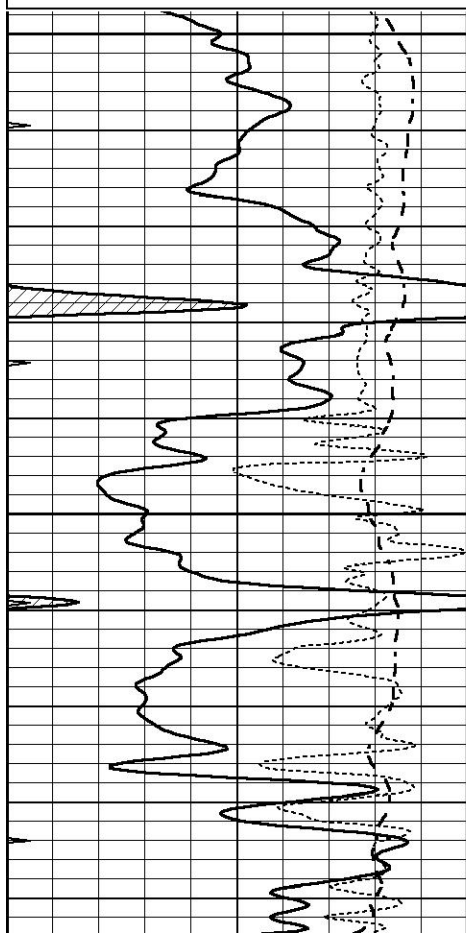
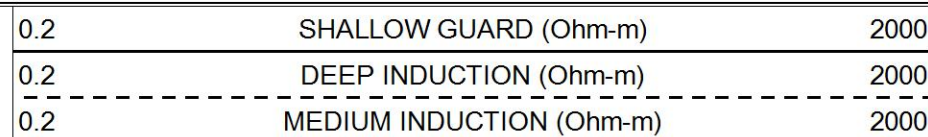
REPEAT SECTION

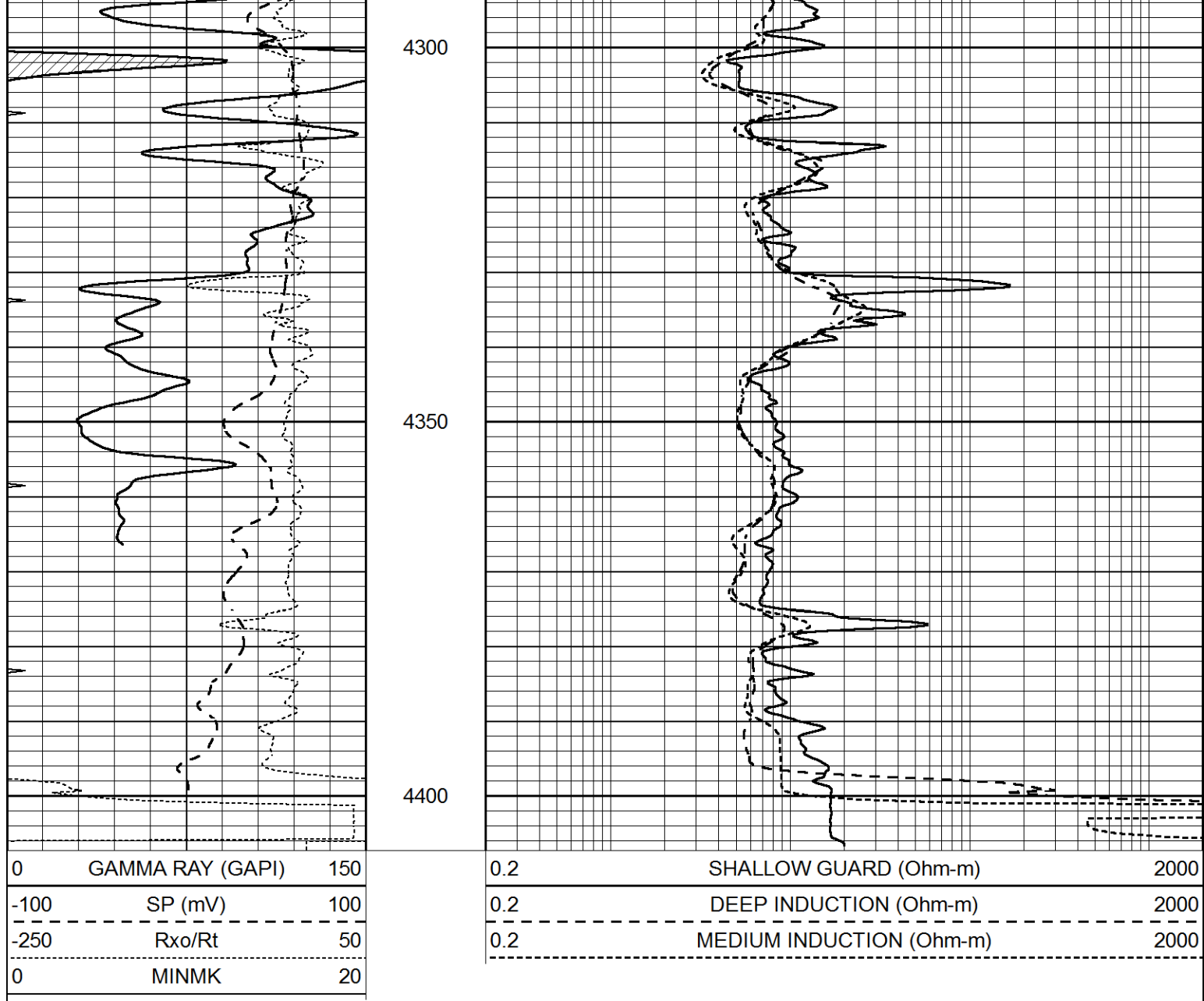
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 Dataset Pathname pass3.1R
 Presentation Format _dil
 Dataset Creation Tue Aug 16 16:38:00 2022
 Charted by Depth in Feet scaled 1:240



4200

4250





Calibration Report									
Database File	6903pe.db								
Dataset Pathname	pass4.1M								
Dataset Creation	Tue Aug 16 16:35:52 2022								
Dual Induction Calibration Report									
Serial-Model:					PROBE8-DILG				
Surface Cal Performed:					Sat Aug 13 16:07:30 2022				
Downhole Cal Performed:					Mon Jul 28 11:08:27 2008				
After Survey Verification Performed:					Mon Jul 28 11:08:27 2008				
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.015	0.648	V	0.000	400.000	mmho/m	640.000	-4.000	
Medium	0.029	0.796	V	0.000	464.000	mmho/m	630.000	-13.000	
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 Tue Aug 02 11:29:35 2022					
	Background	Magnesium		Aluminum		Aluminum+Fe		
Window 1	1154.2	10019.5		3137.9		2795.6		cps
Window 2	1054.4	8597.6		2733.4		2469.5		cps
Window 3	902.3	5241.4		1832.1		1719.3		cps
Window 4	251.9	261.1		255.8		252.9		cps
Long Space	0.0	7543.2		1679.0		1415.0		cps
Short Space	4.4	2049.3		1321.7		1116.8		cps
Rho		1.7100		2.5900		0.0000		g/cc
Pe		2.0000		2.7500		5.7900		
Rib Angle	: 43.7	Rib Slope	: 0.957	Density/Spine Ratio			: 0.562	
Spine Angle	: 73.7	Spine Slope	: 3.426	Spine Intercept			: -17.2	
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:		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:	Tue Aug 16 14:40:27 2022			
Calibrator Value:	1.0	GAPI		
Background Reading:	0.0	cps		
Calibrator Reading:	1.0	cps		
Sensitivity:	0.3000	GAPI/cps		