

DUAL INDUCTION LOG

Company DOWNING-NELSON OIL CO., INC.

Well POORE #1-4

Field WILDCAT

County RAWLINS State KANSAS

Location: API # : 15-153-21257-0000

2190' FSL & 1190' FEL

SEC 4 TWP 5S RGE 36W

Permanent Datum GROUND LEVEL Elevation 3358
Log Measured From KELLY BUSHING 12' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL
ML/SO

Elevation
K.B. 3370
D.F. 3368
G.L. 3358

Date 04/29/21

Run Number ONE

Depth Driller 4911

Depth Logger 4913

Bottom Logged Interval 4911

Top Log Interval 00

Casing Driller 8 5/8" @ 485

Casing Logger 485

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.4/64

pH / Fluid Loss 8.5/8.8

Source of Sample FLOWLINE

Rm @ Meas. Temp 2.0@ 70F

Rmf @ Meas. Temp 1.5@ 70F

Rmc @ Meas. Temp 2.4 @ 70F

Source of Rmf / Rmc MEASURED

Rm @ BHT 1.12@ 124F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom

Maximum Recorded Temperature 124F

Equipment Number 1523

Location HAYS, KANSAS

Recorded By GUS PFANENSTIEL

Witnessed By MARC DOWNING

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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

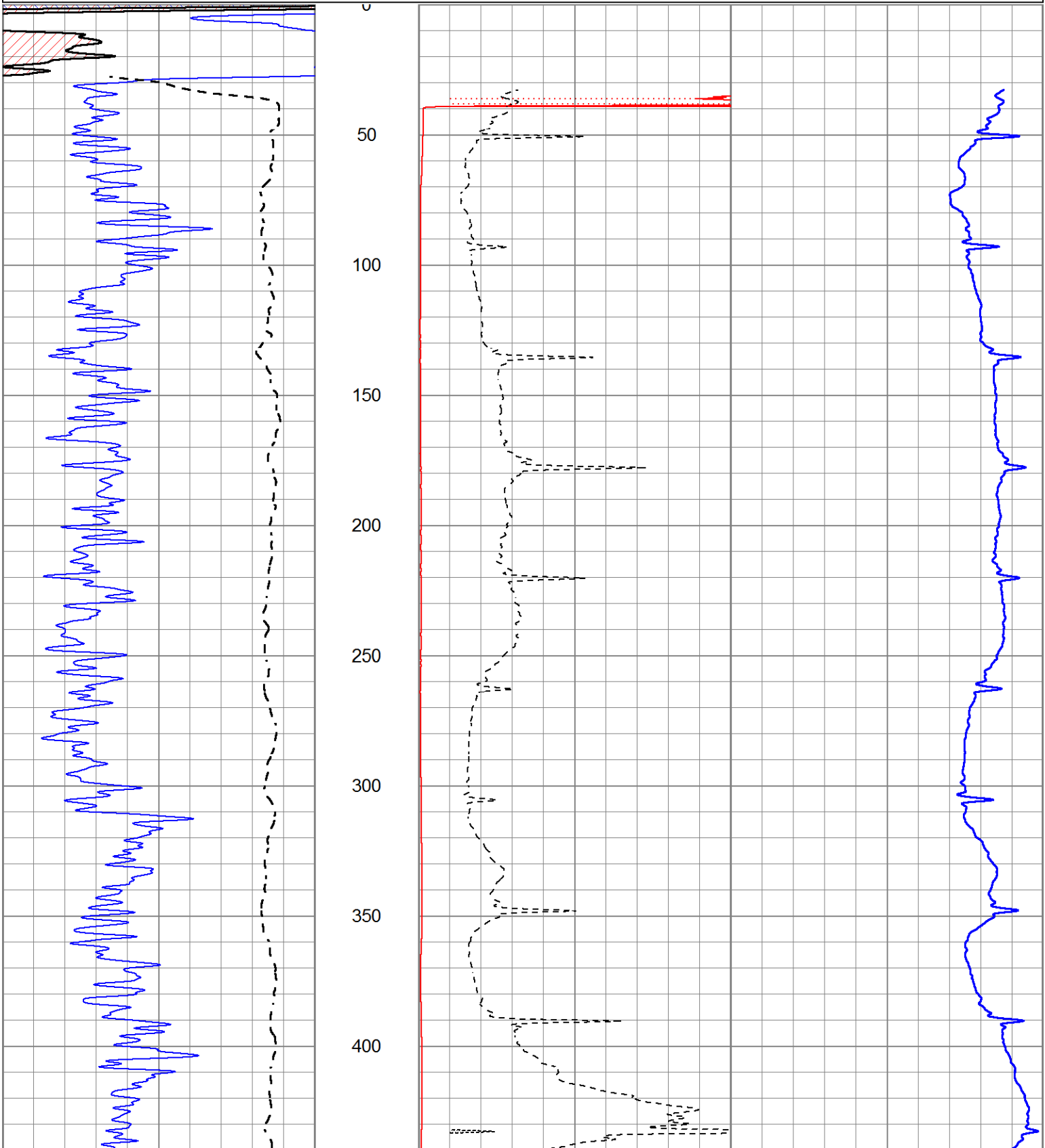
DIRECTIONS:BREWSTER NORTH TO RD. G IN RAWLINS COUNTY,
EAST INTO.

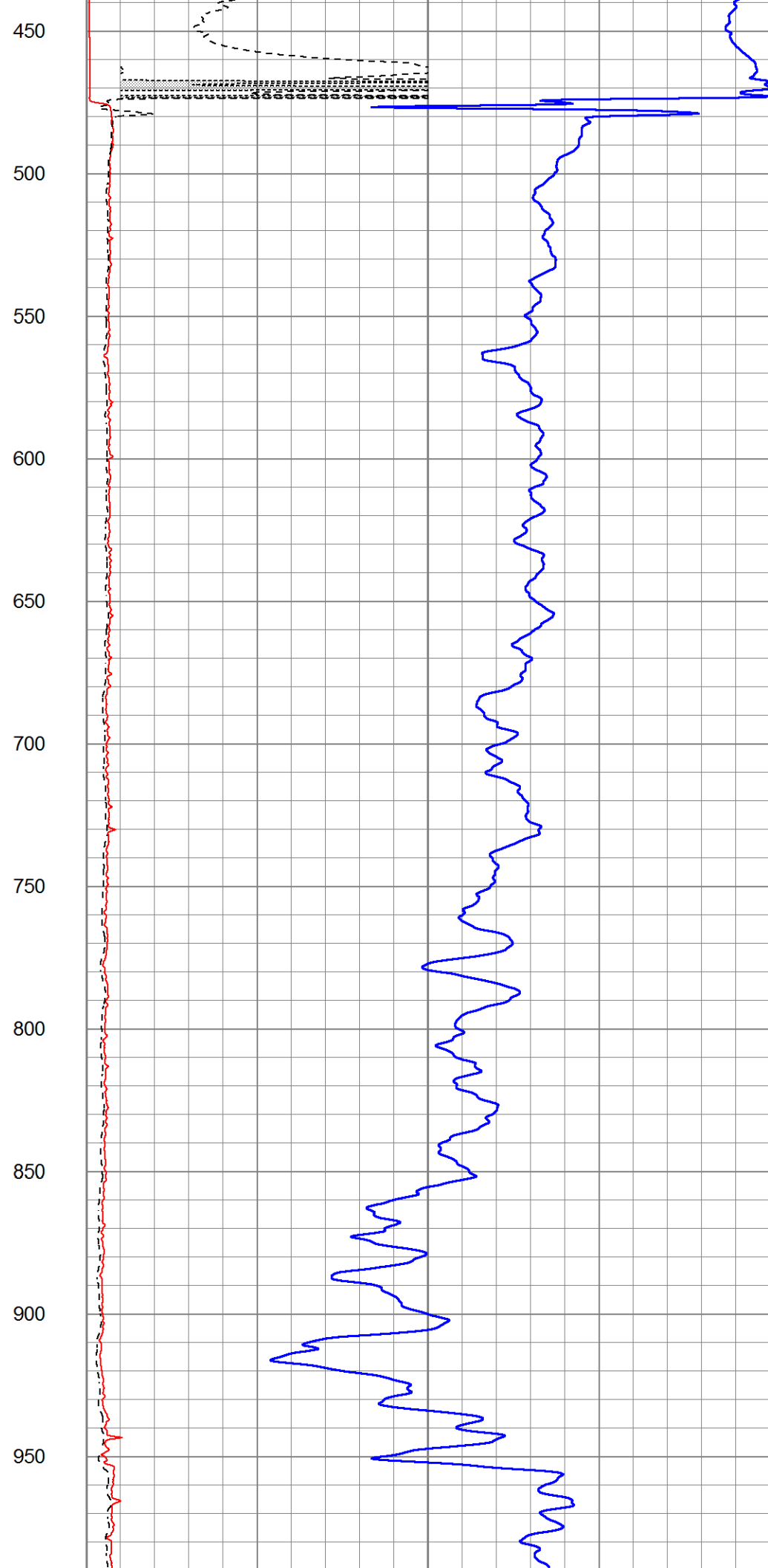
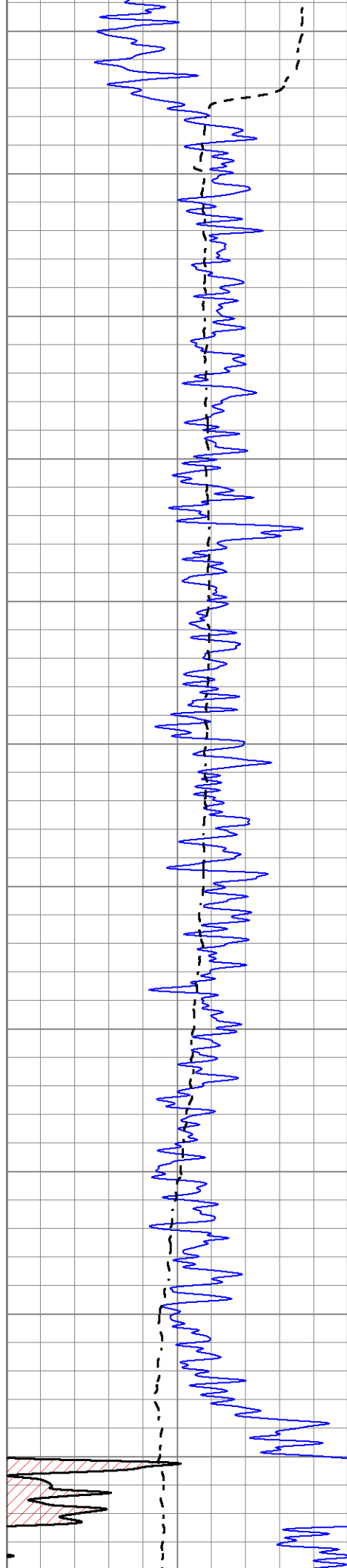


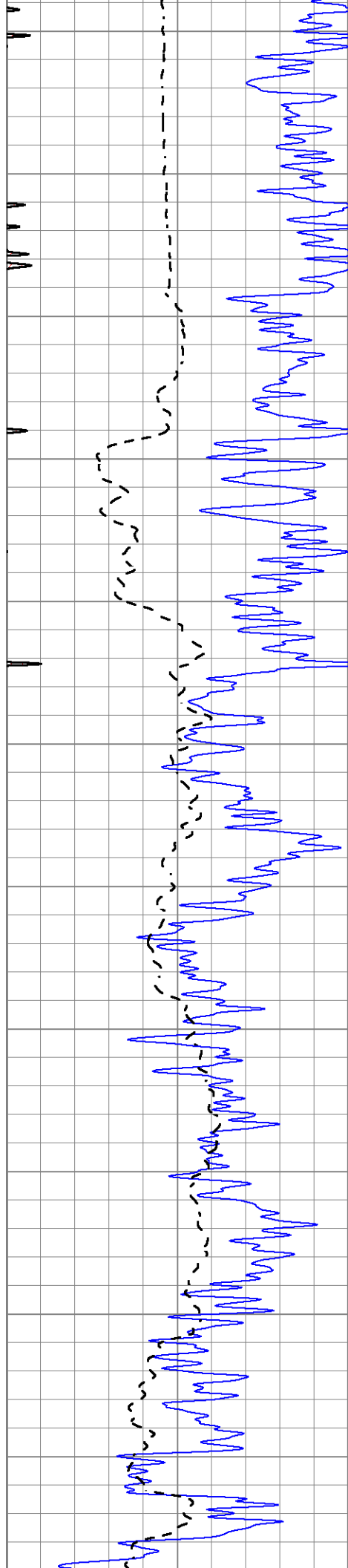
MAIN PASS

Database File	5432ddn.db
Dataset Pathname	pass3
Presentation Format	_dil2
Dataset Creation	Thu Apr 29 19:00:09 2021
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-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

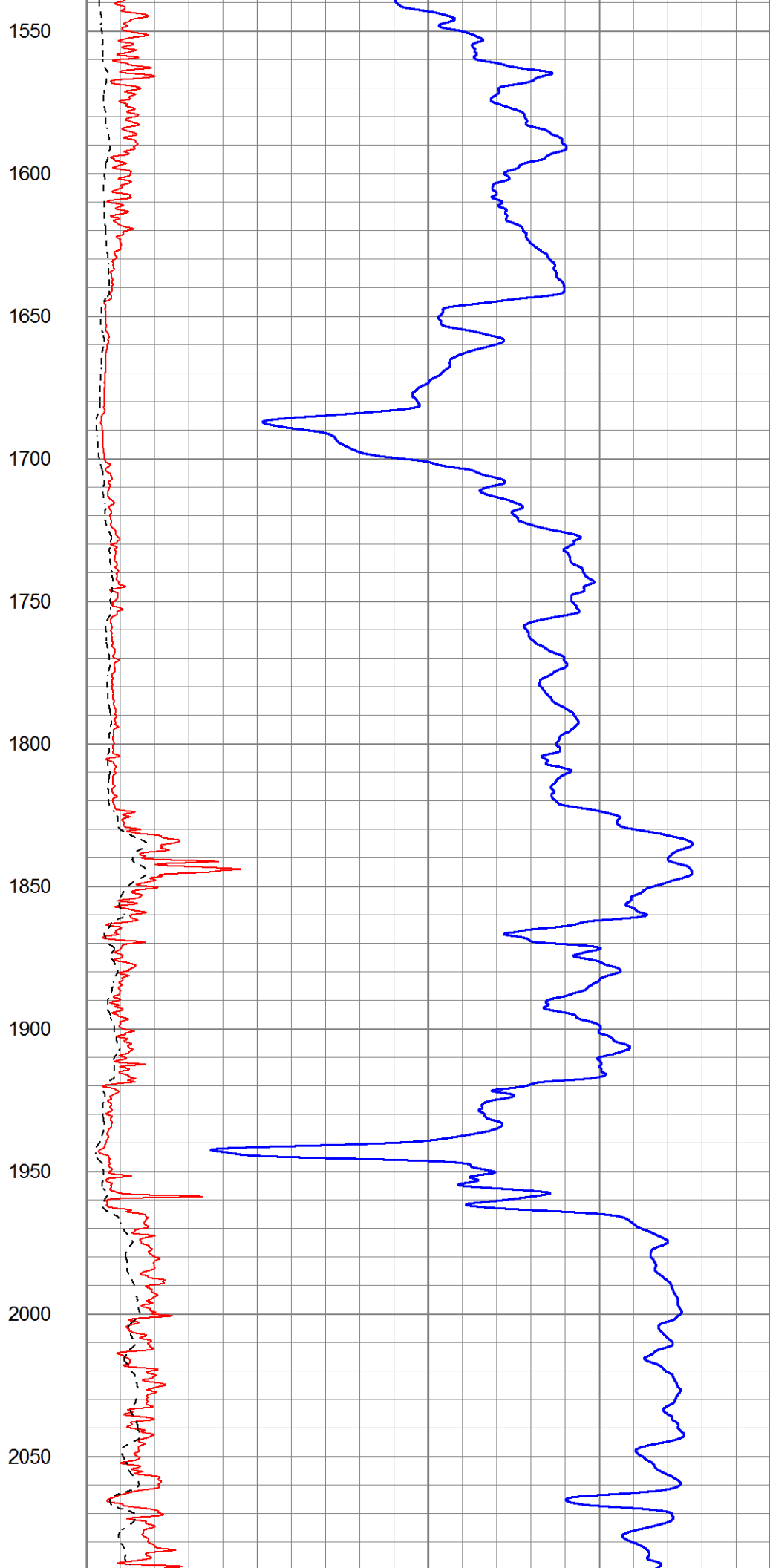
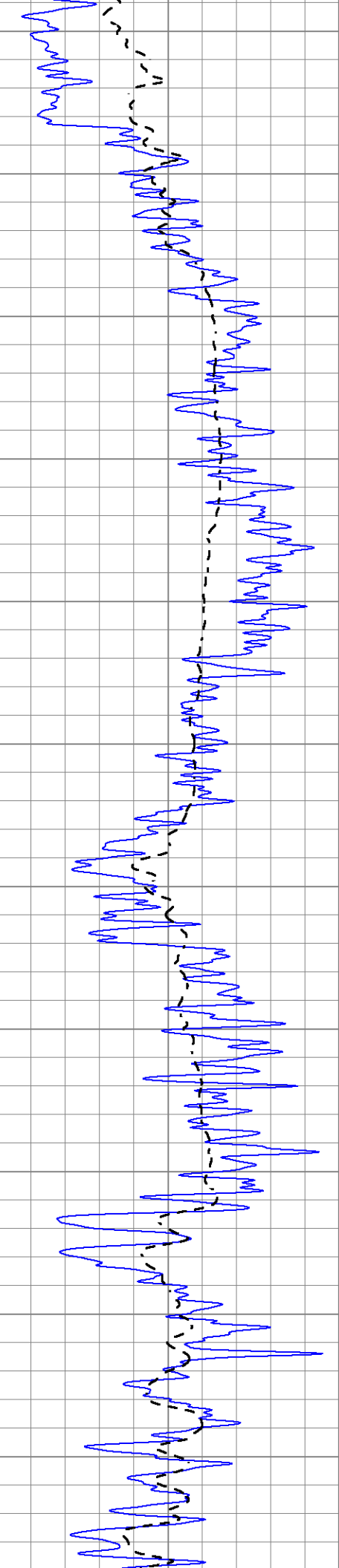


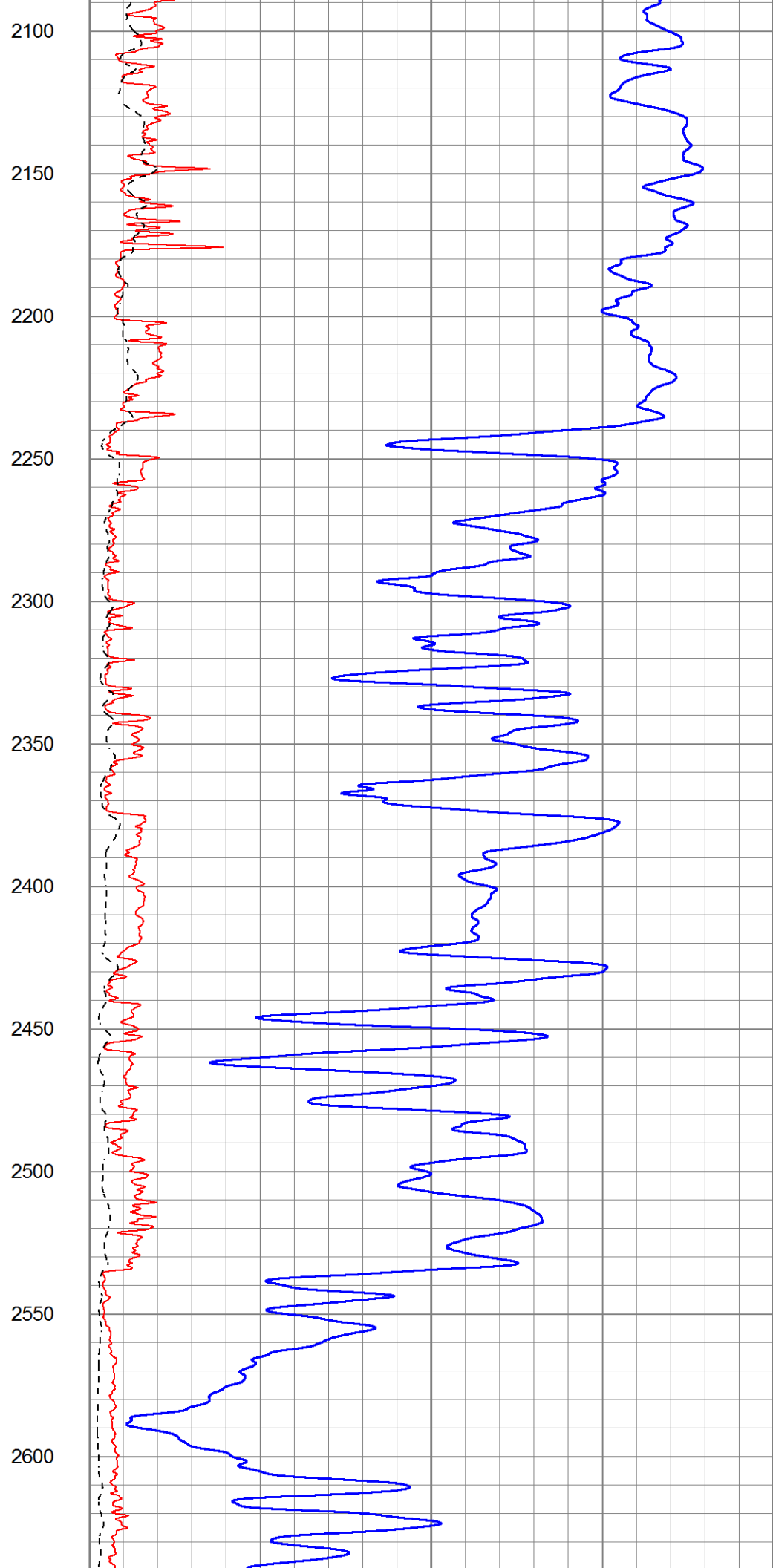
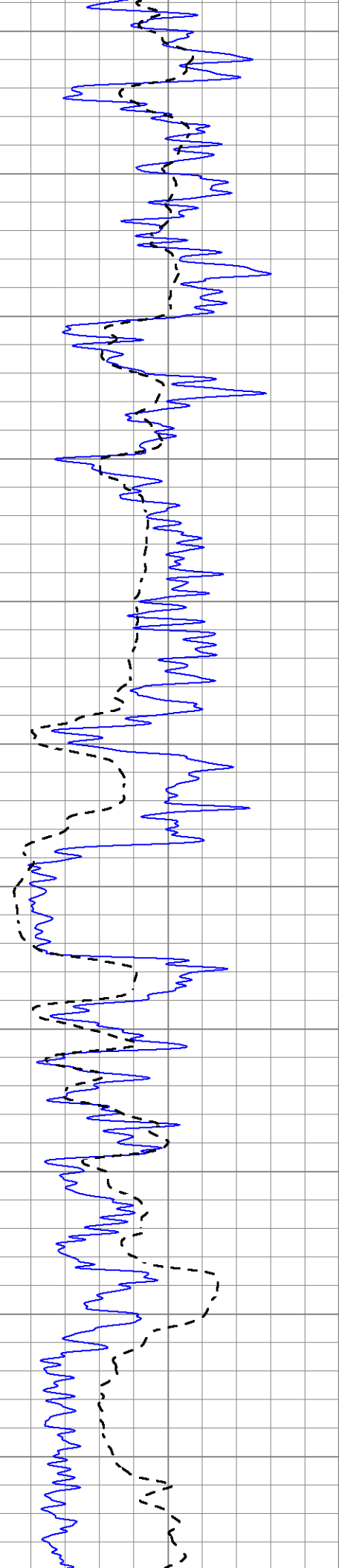


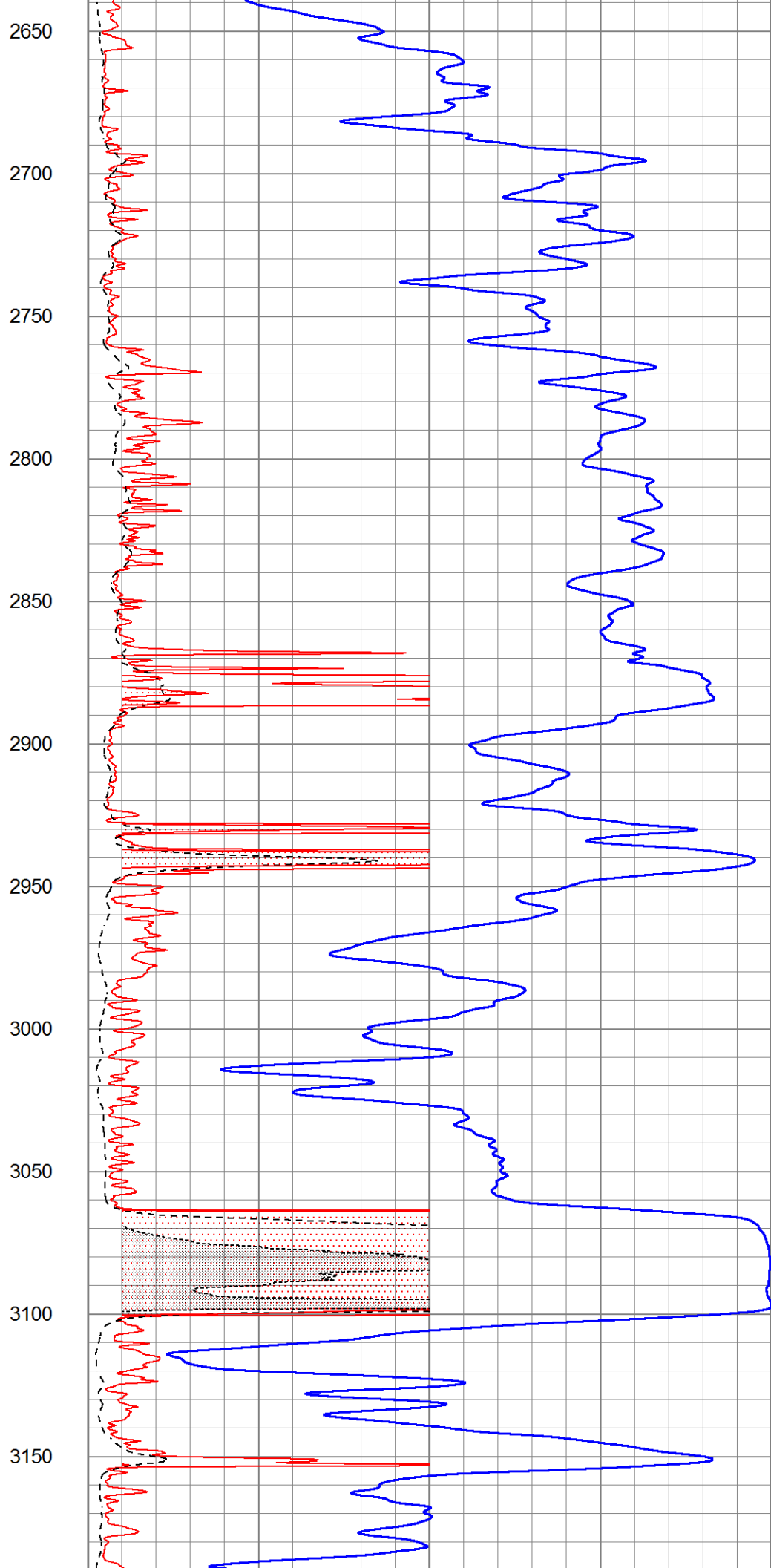
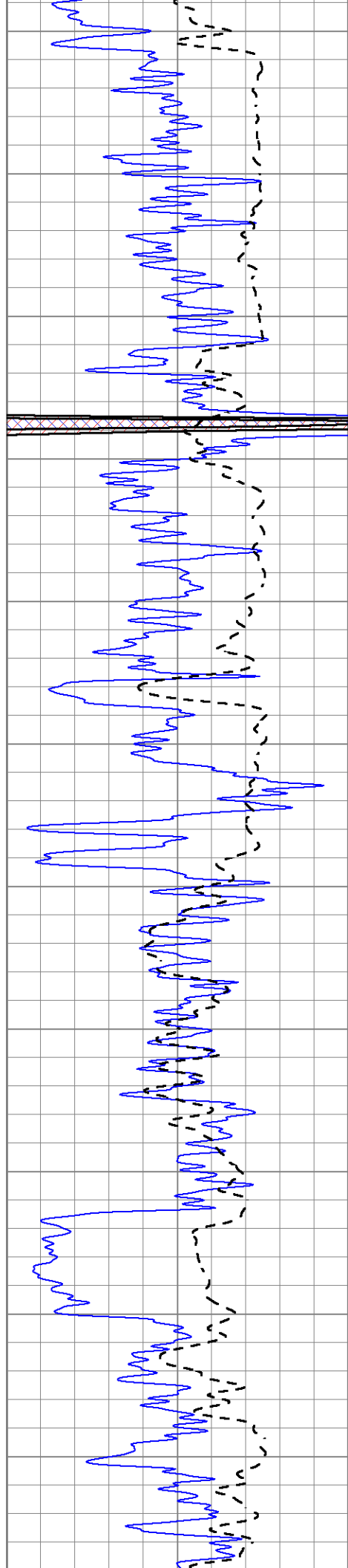


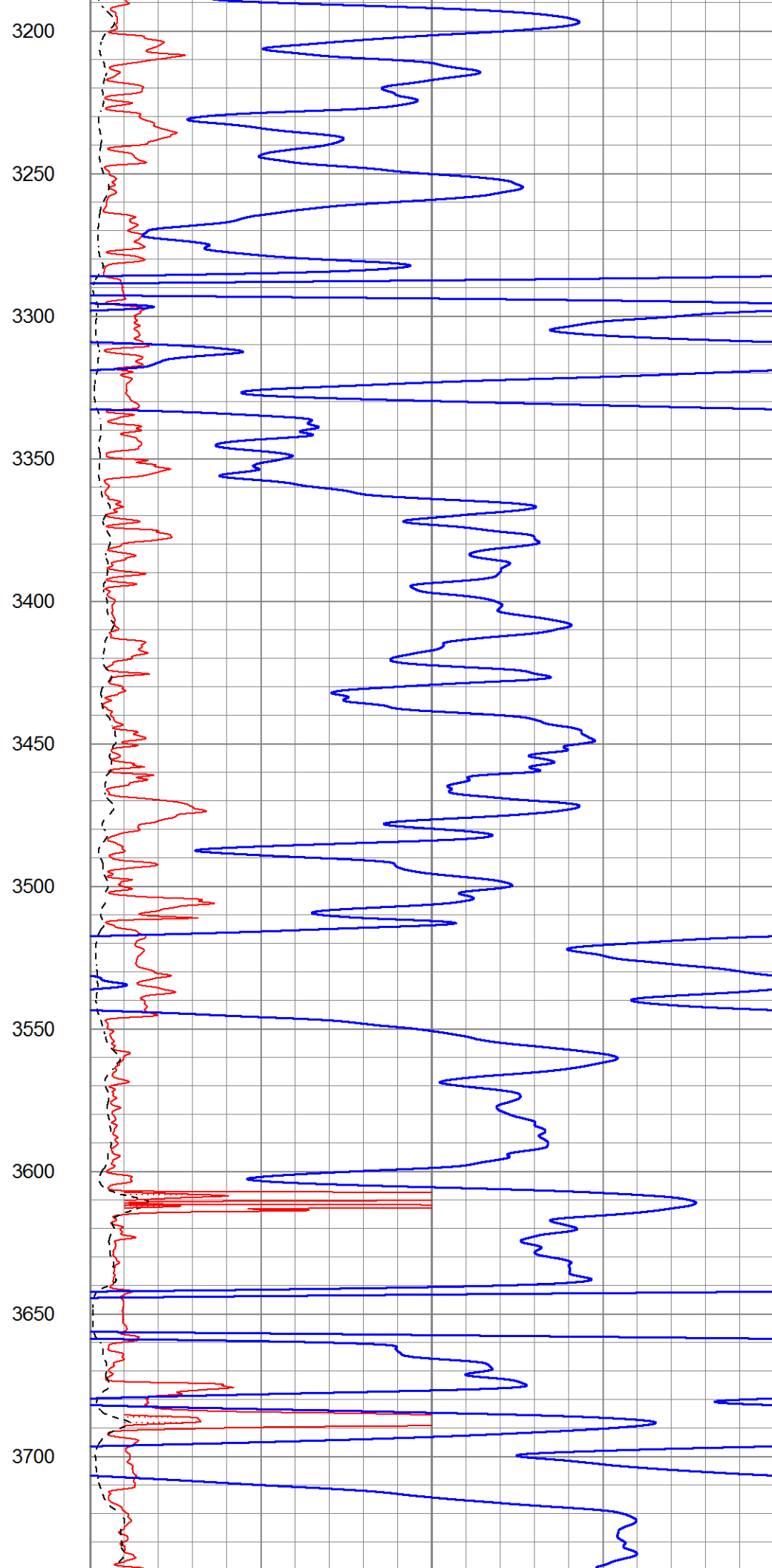
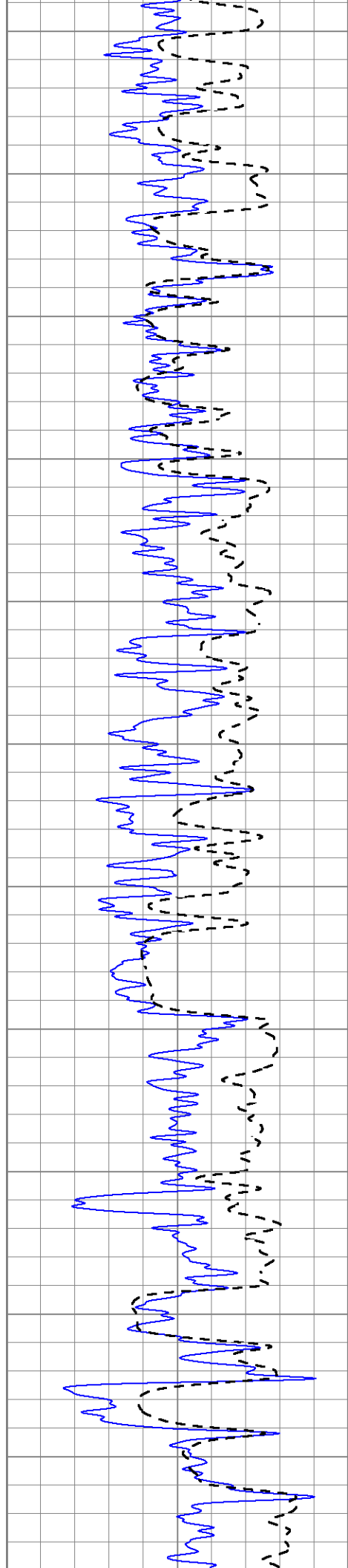
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1050
1100
1150
1200
1250
1300
1350
1400
1450
1500

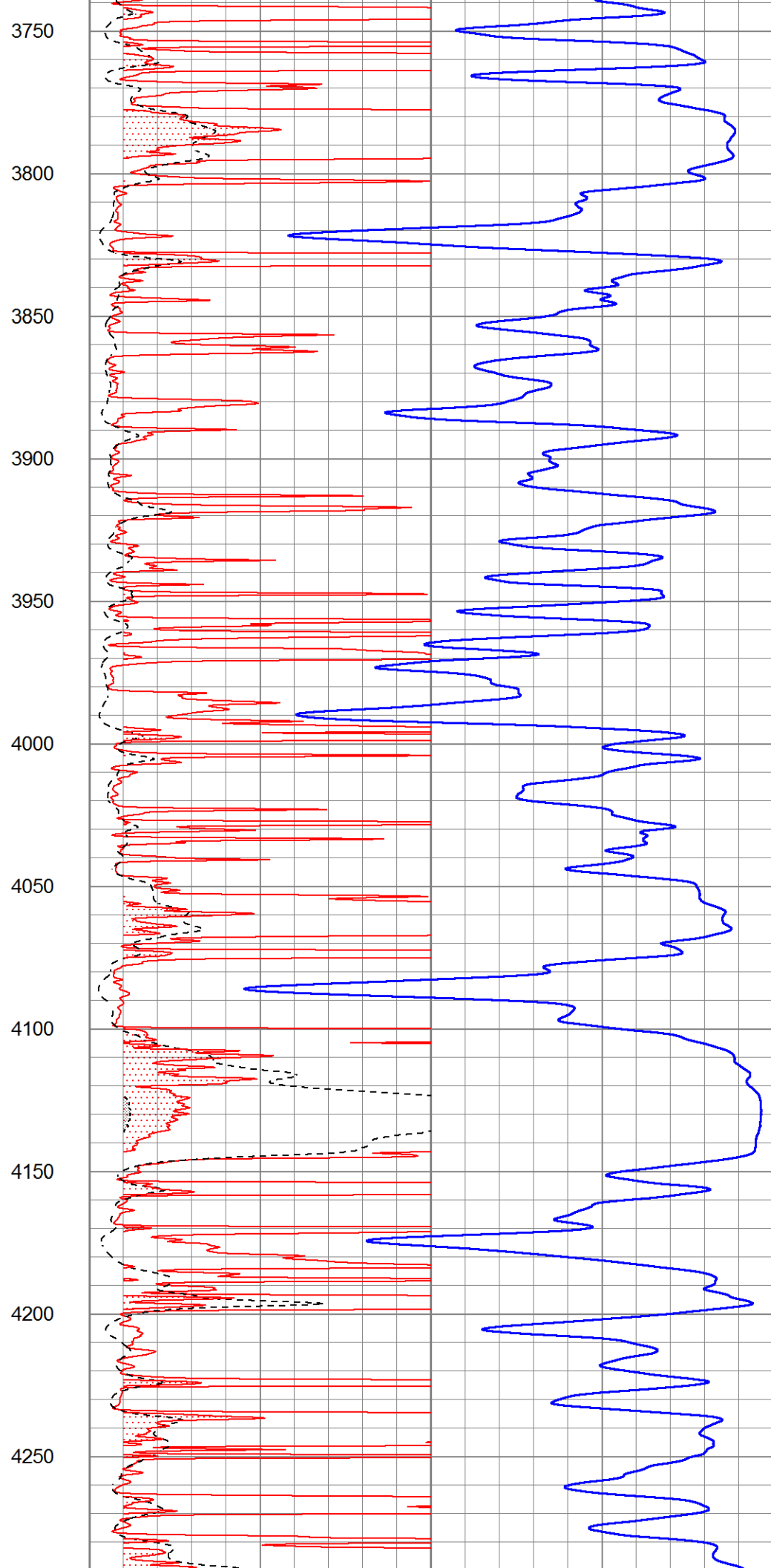
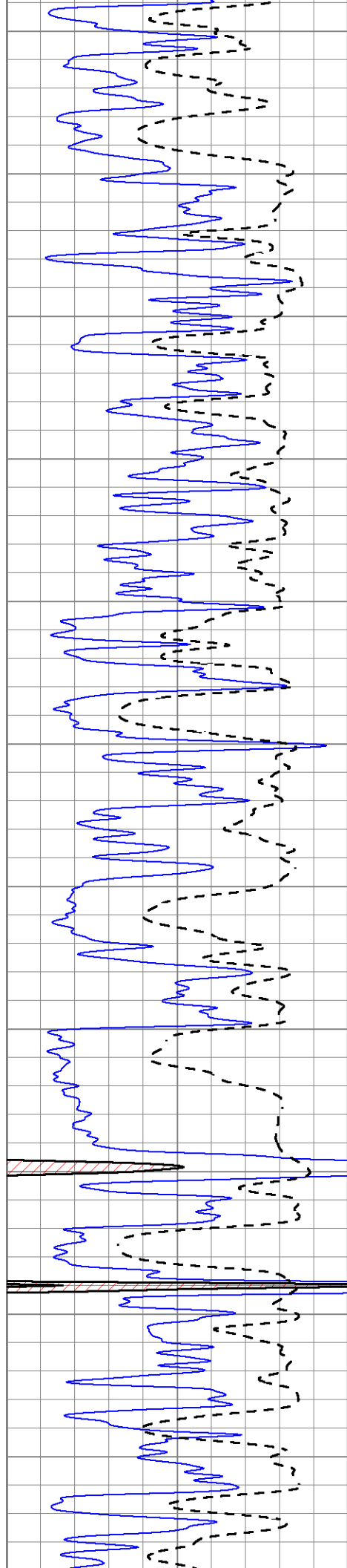


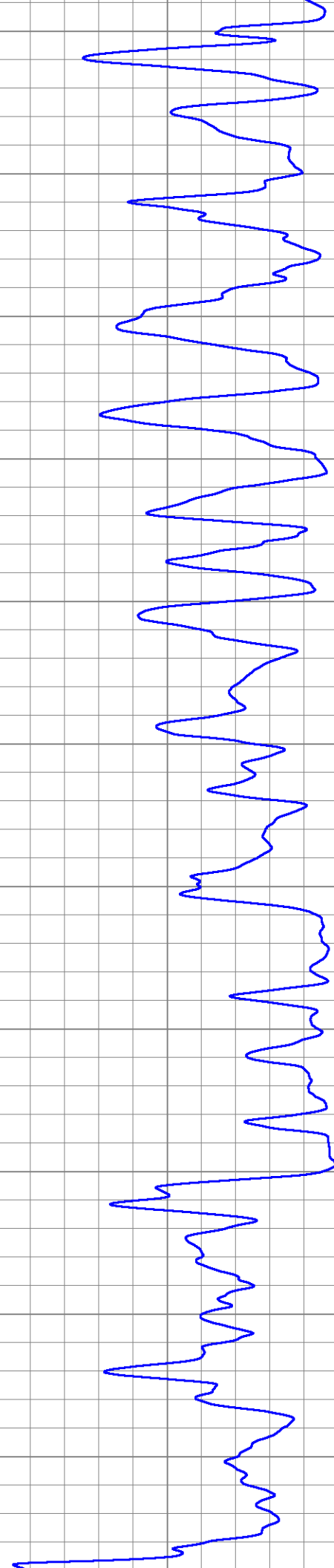
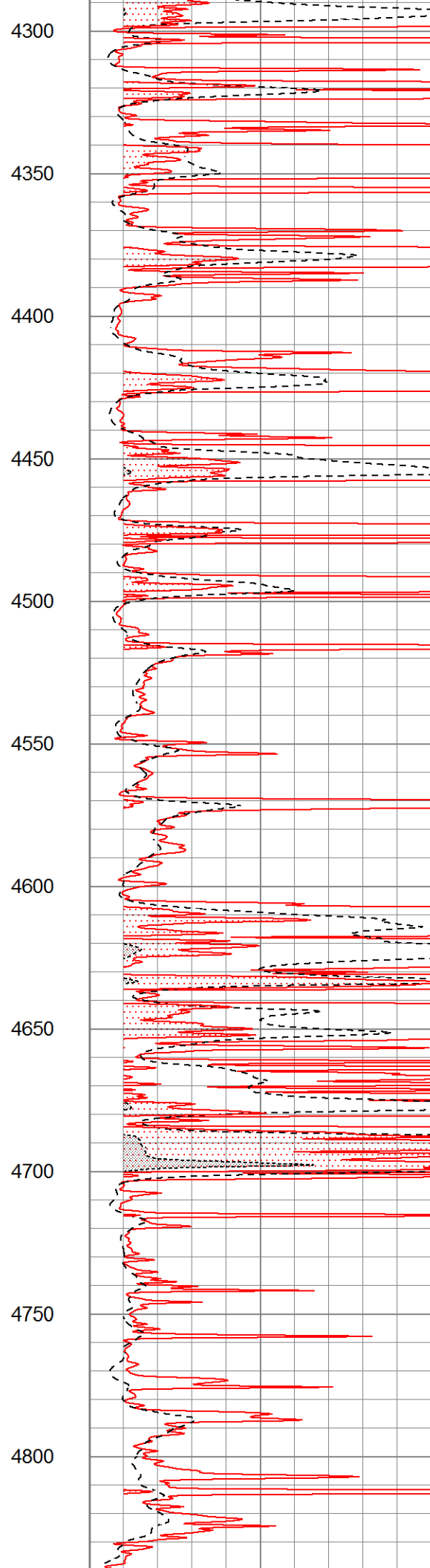
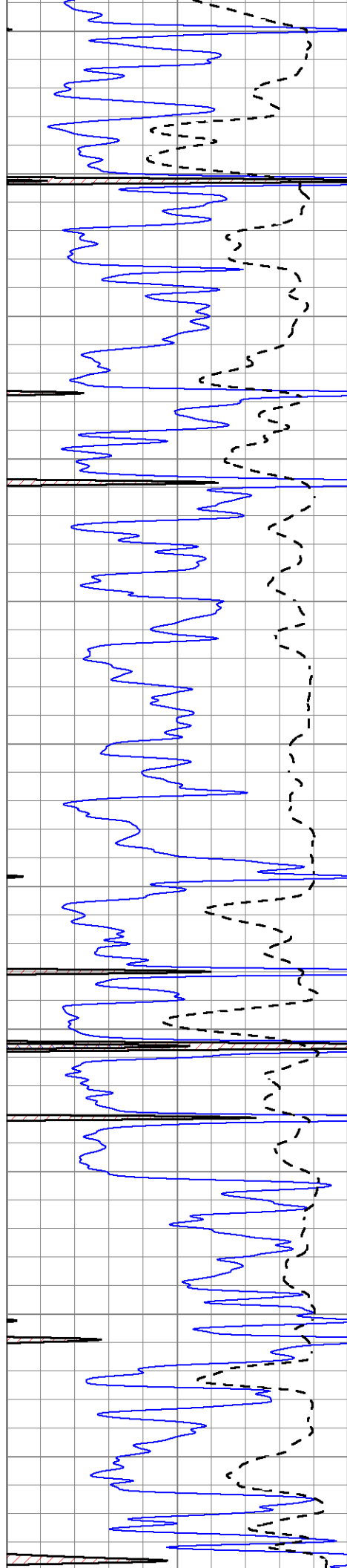


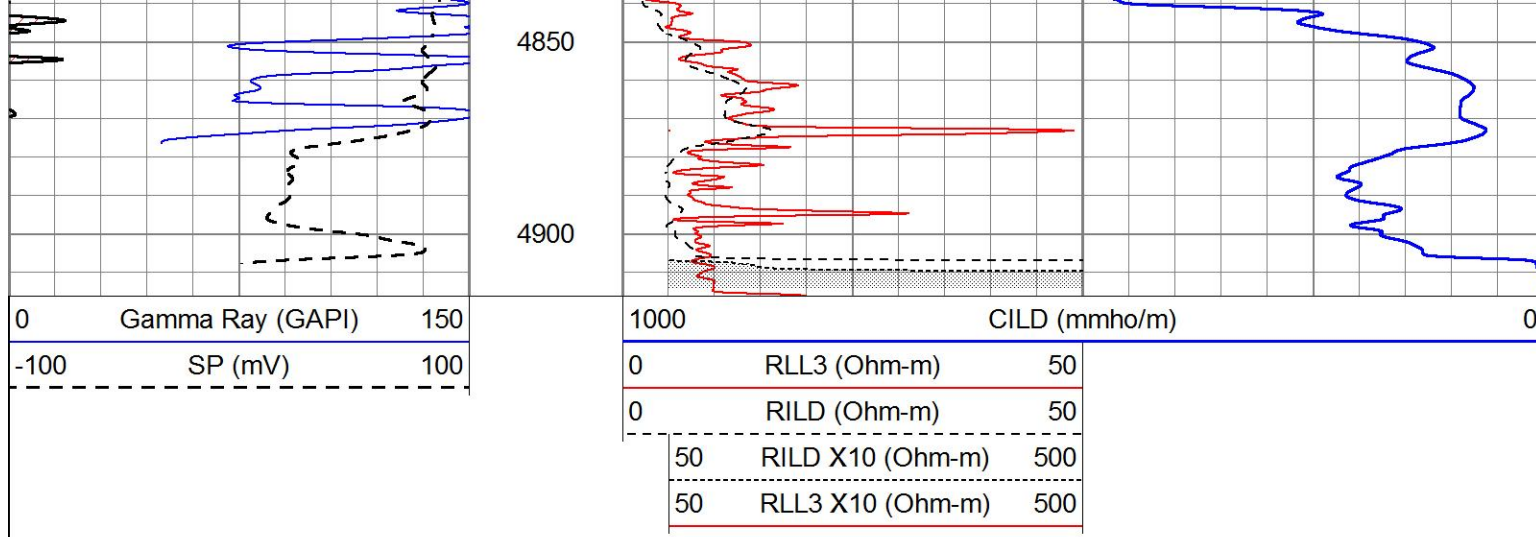






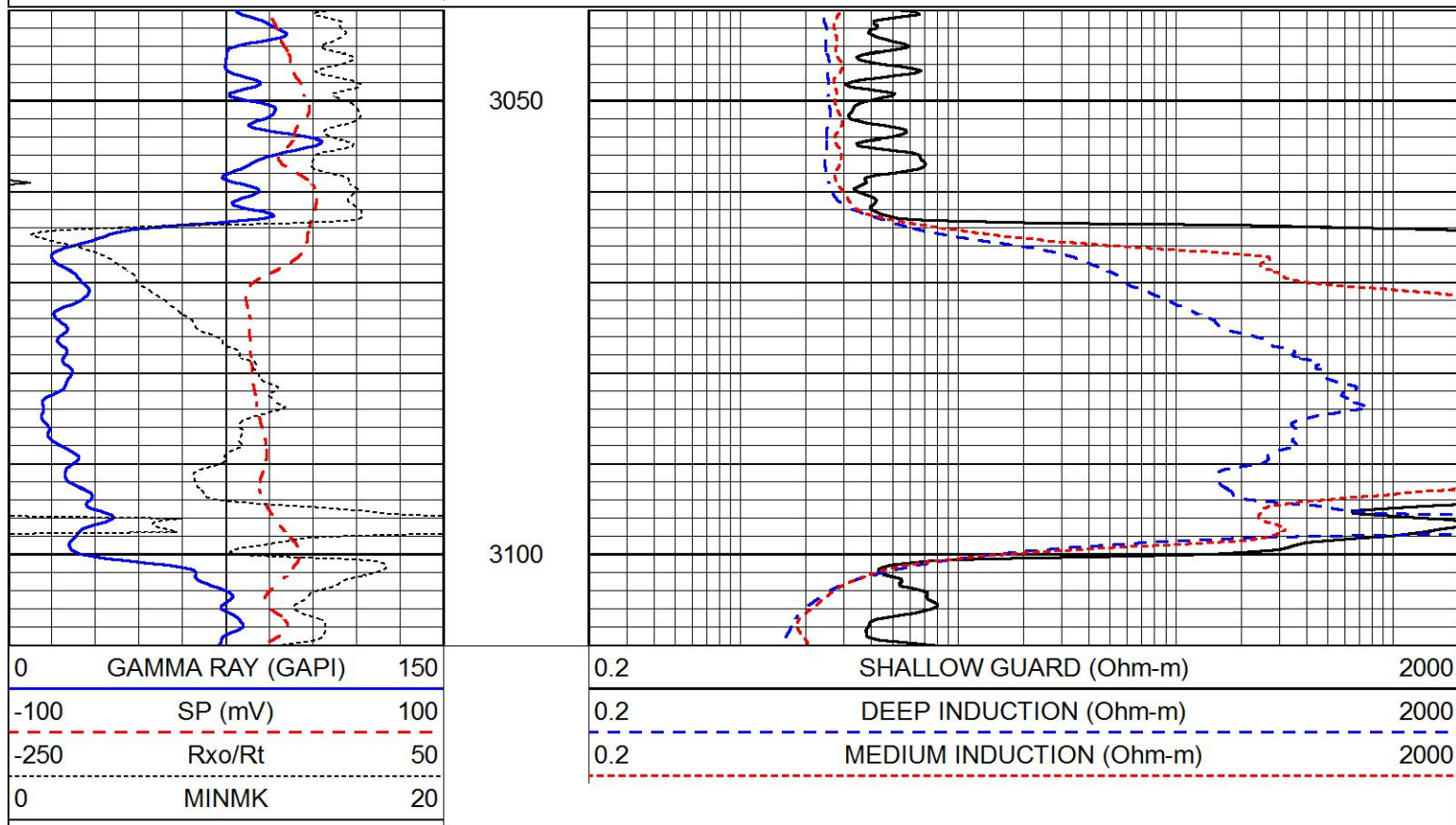






MAIN PASS

Database File 5432ddn.db
 Dataset Pathname pass3
 Presentation Format _dil
 Dataset Creation Thu Apr 29 19:00:09 2021
 Charted by Depth in Feet scaled 1:240



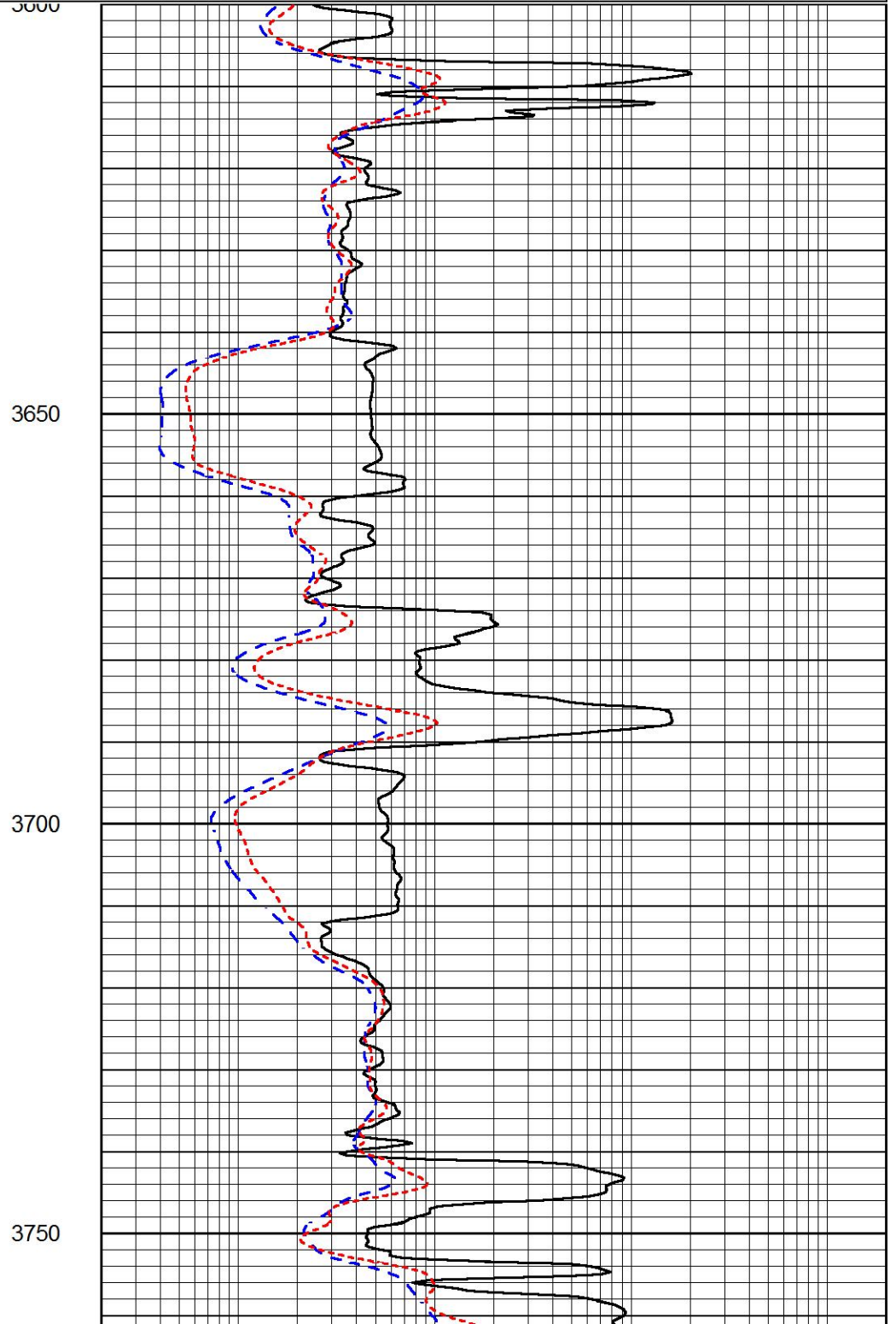
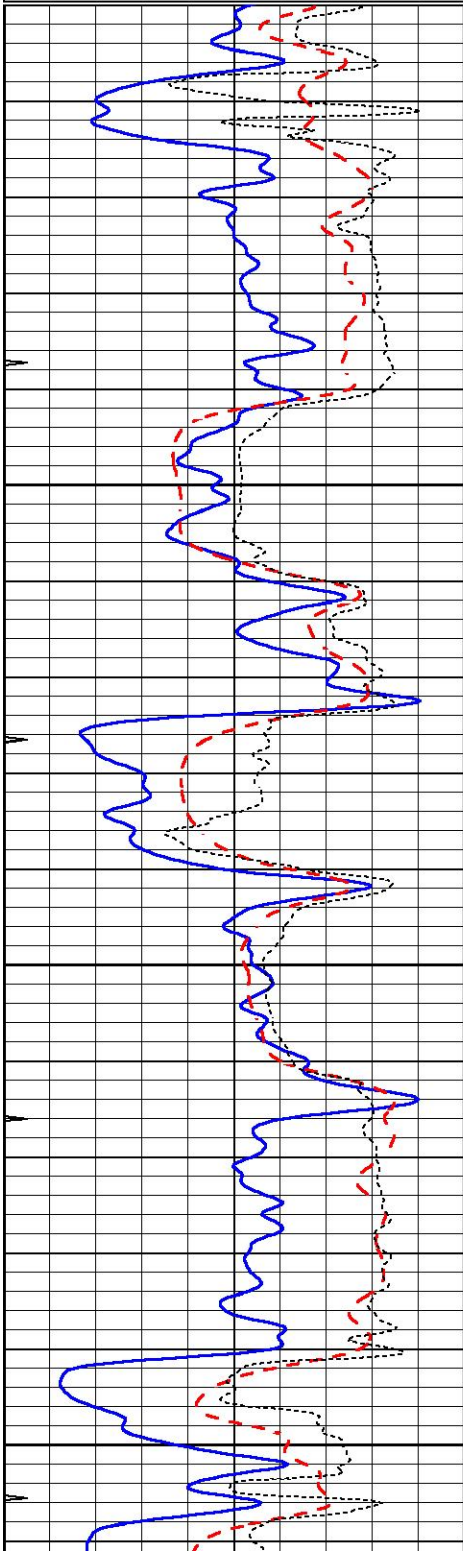


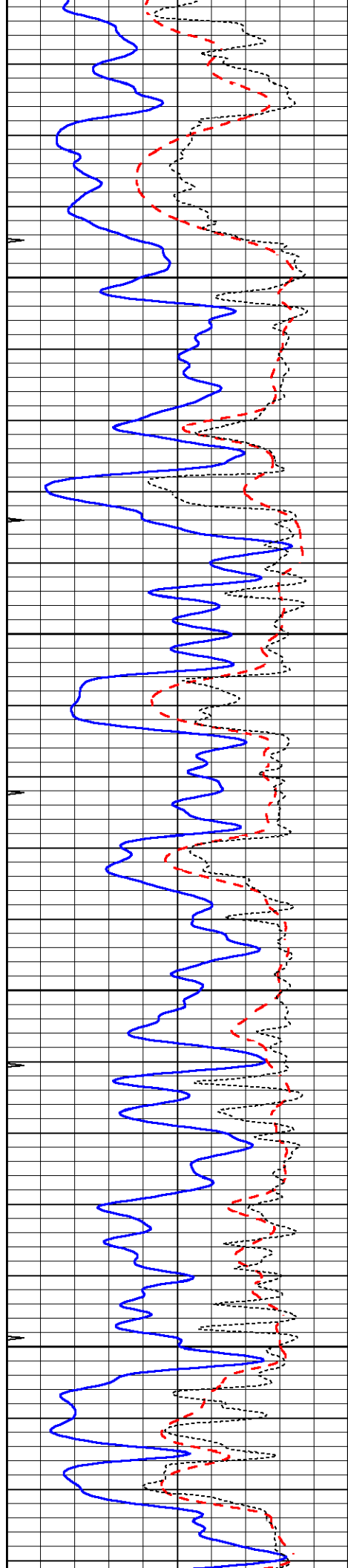
MAIN PASS

Database File 5432ddn.db
Dataset Pathname pass3.1
Presentation Format _dil
Dataset Creation Thu Apr 29 19:49:56 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



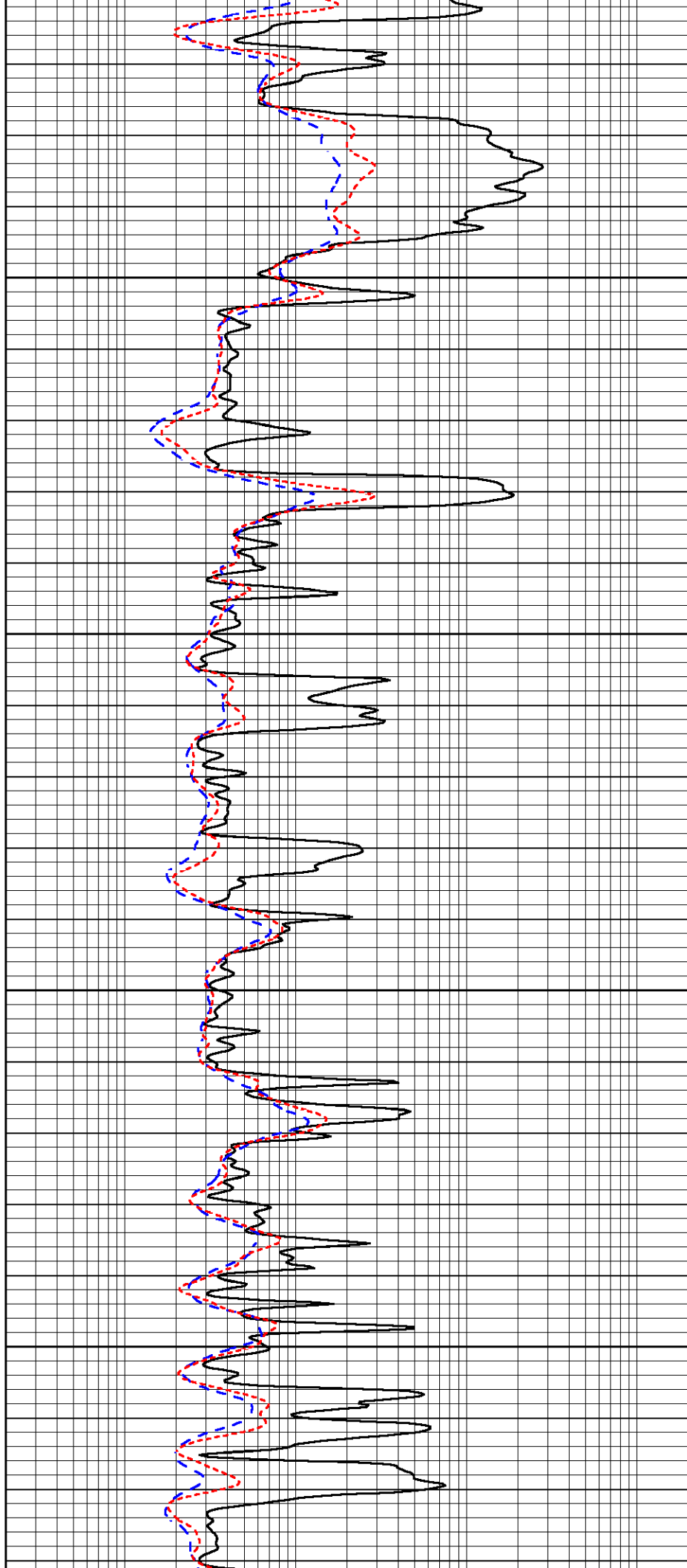


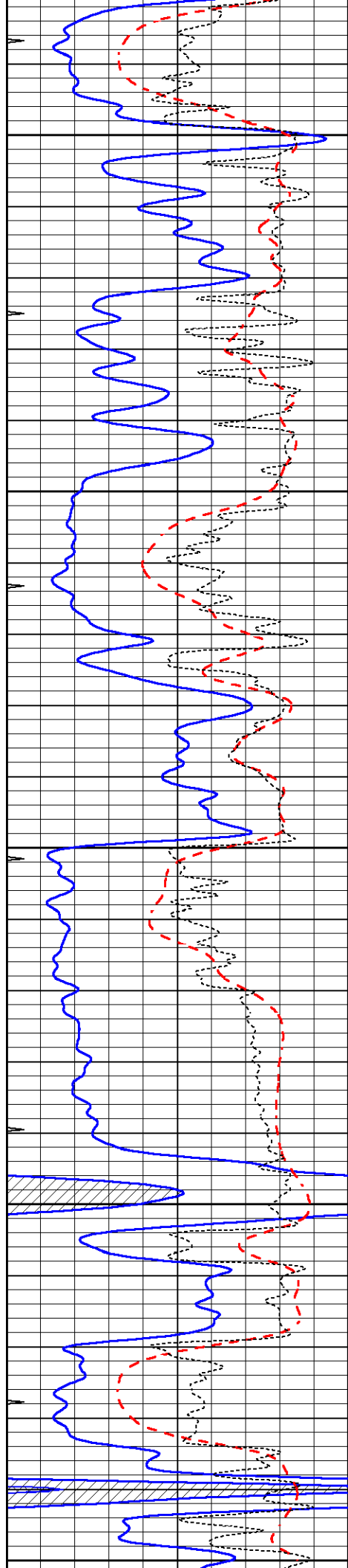
3800

3850

3900

3950





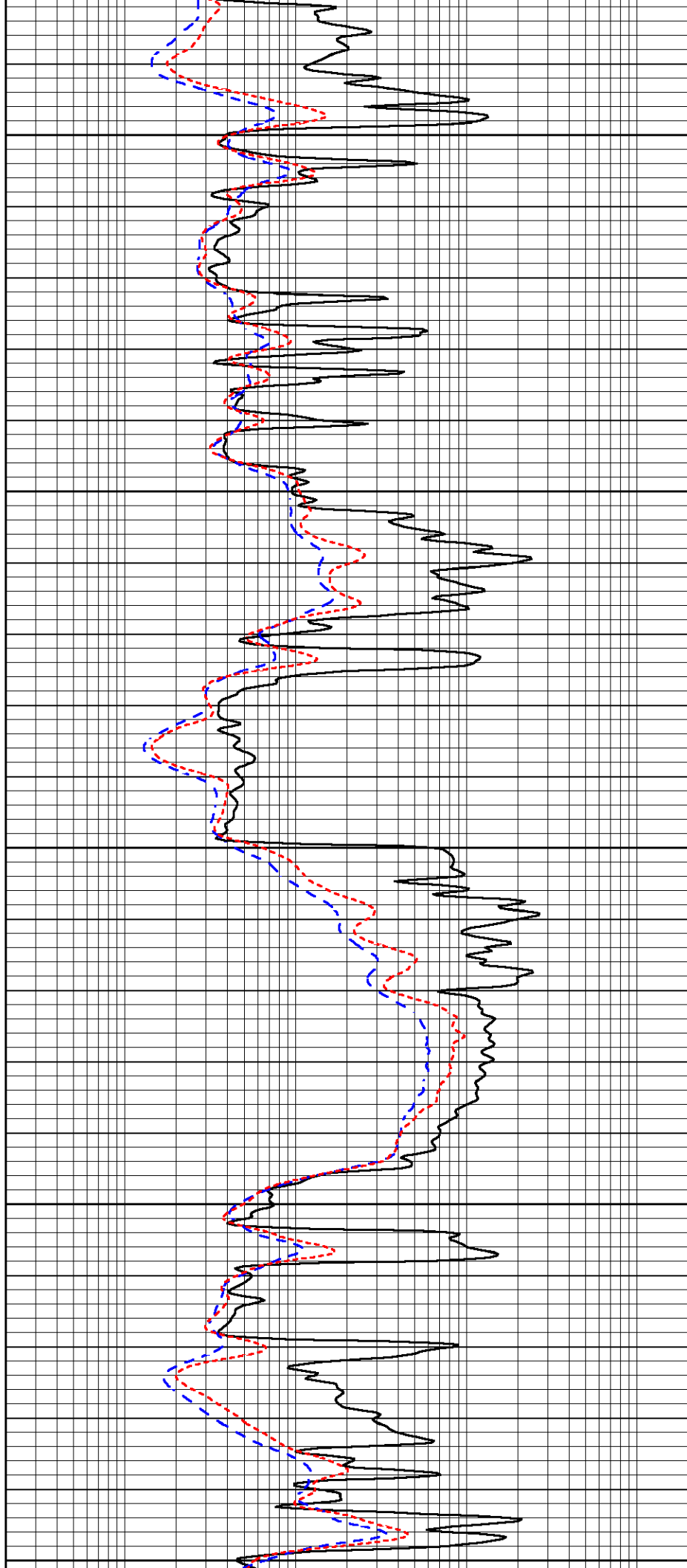
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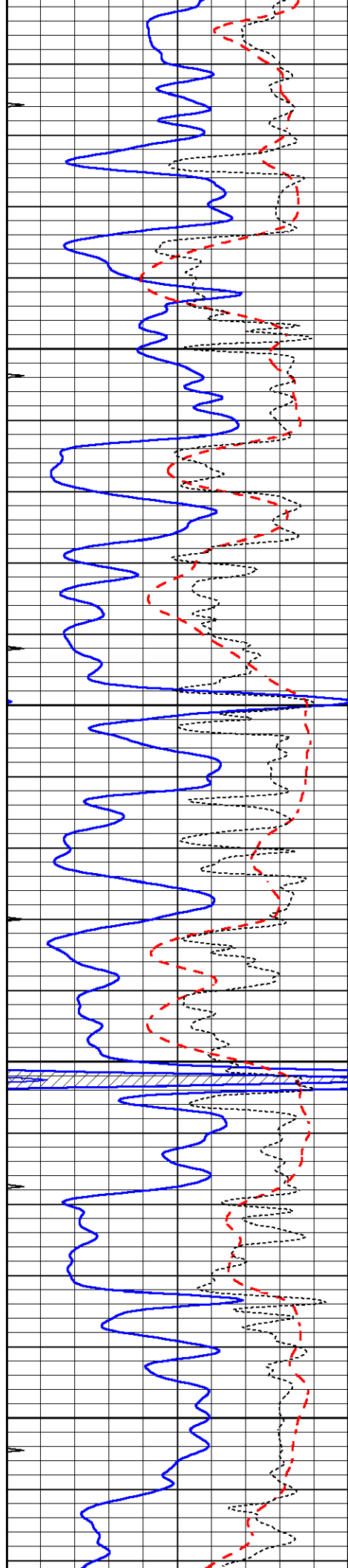
4050

4100

4150

4200



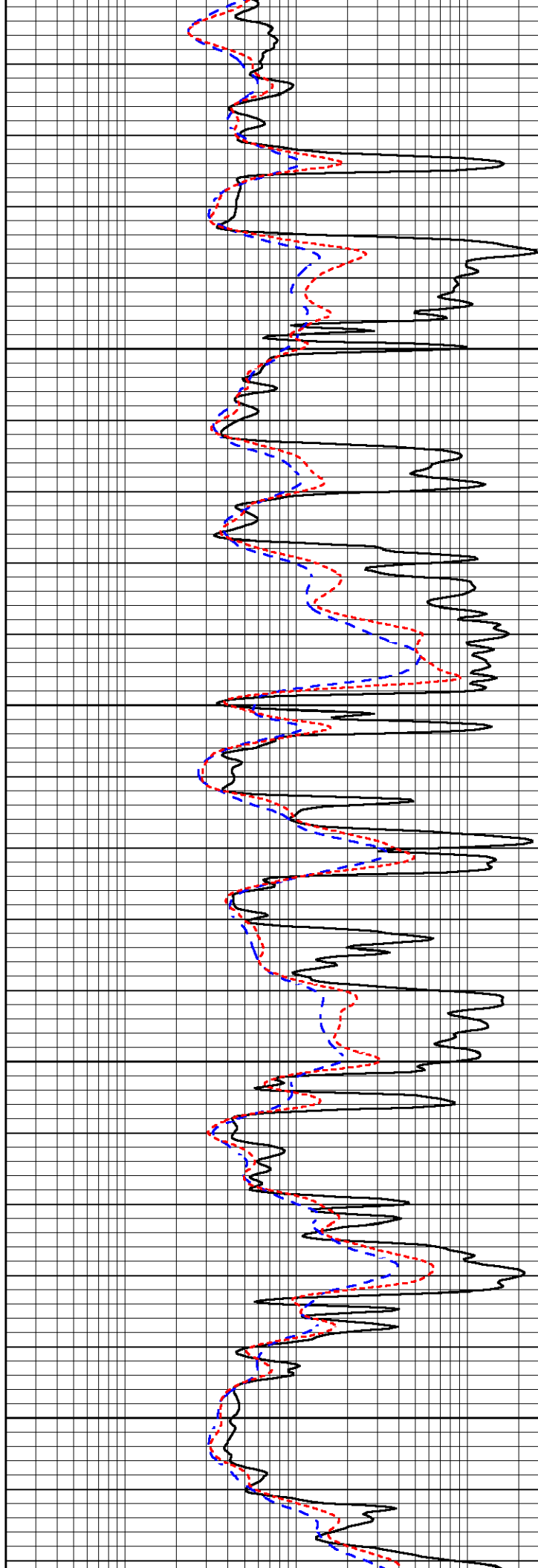


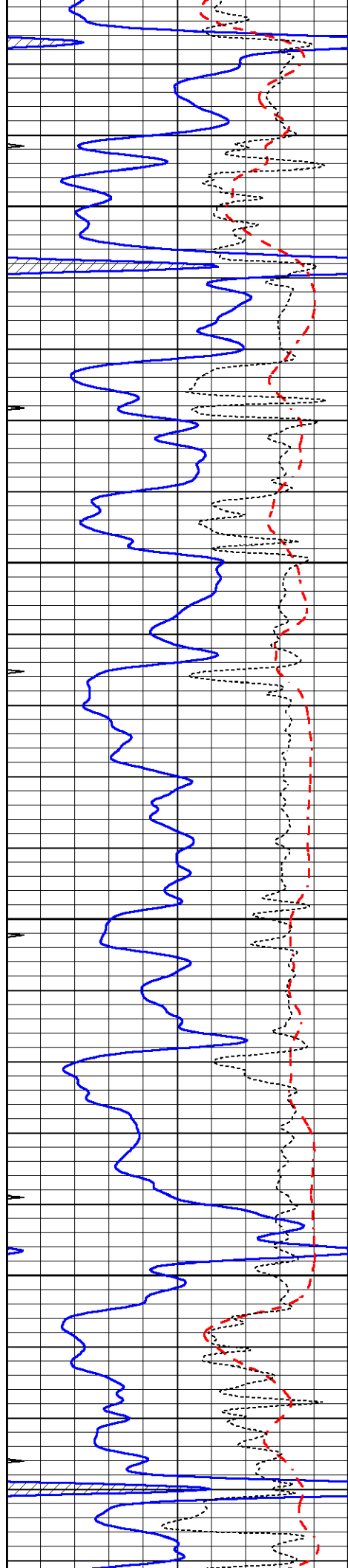
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4300

4350

4400



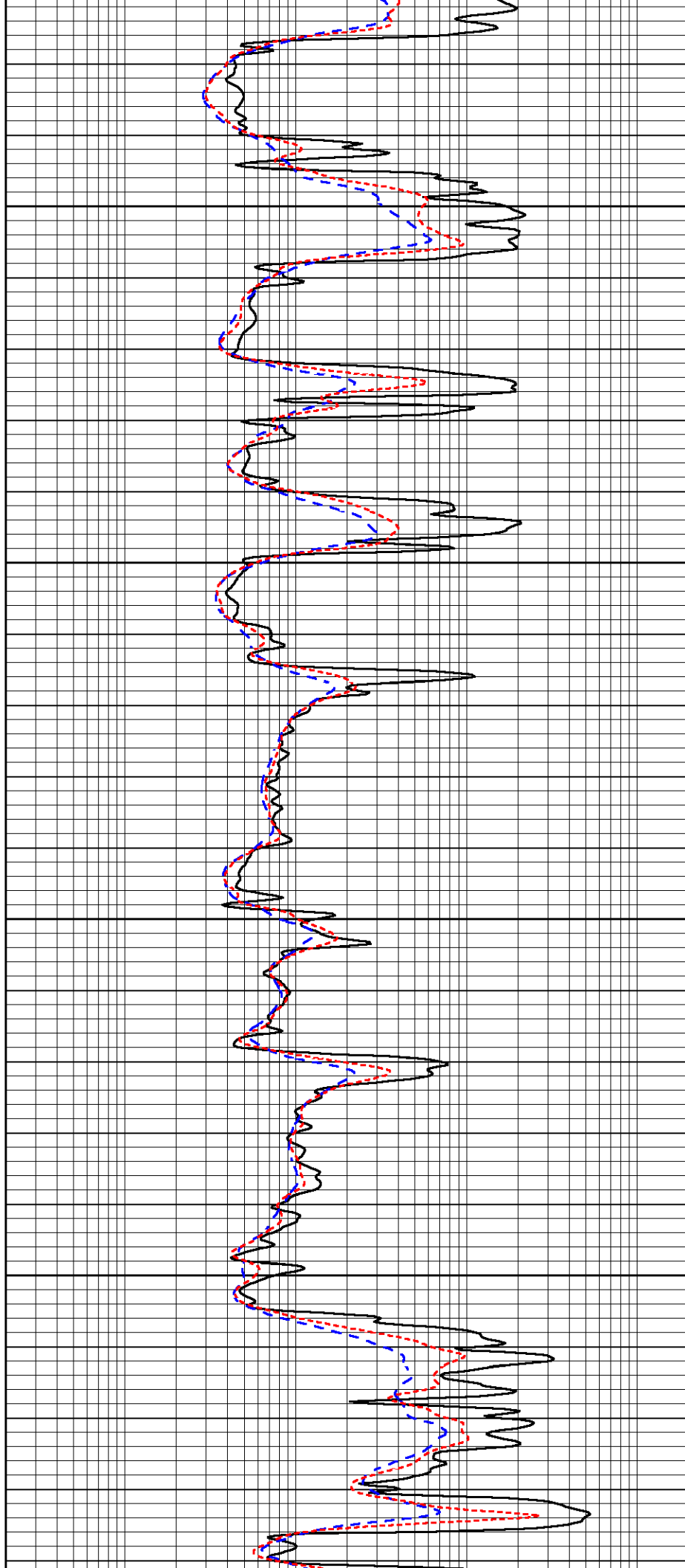


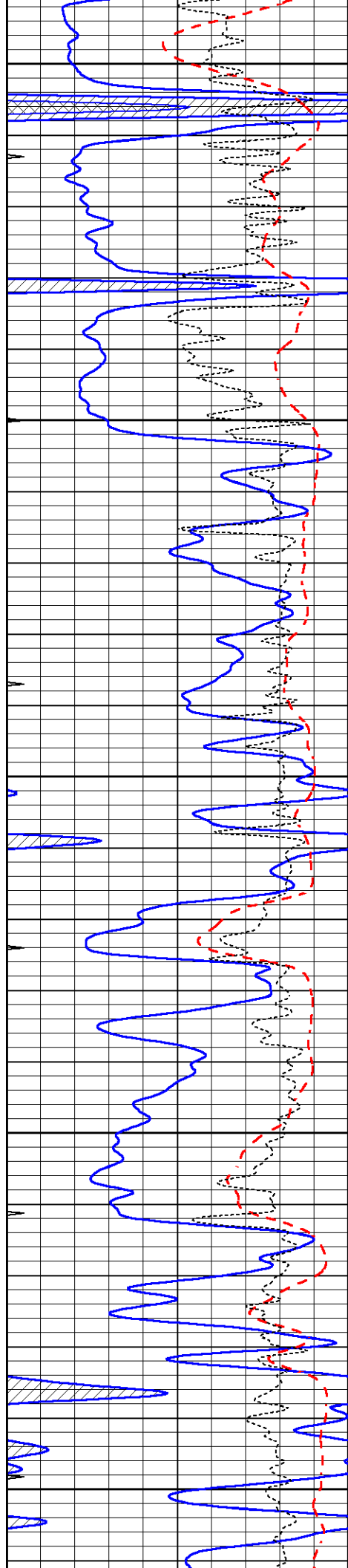
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4500

4550

4600





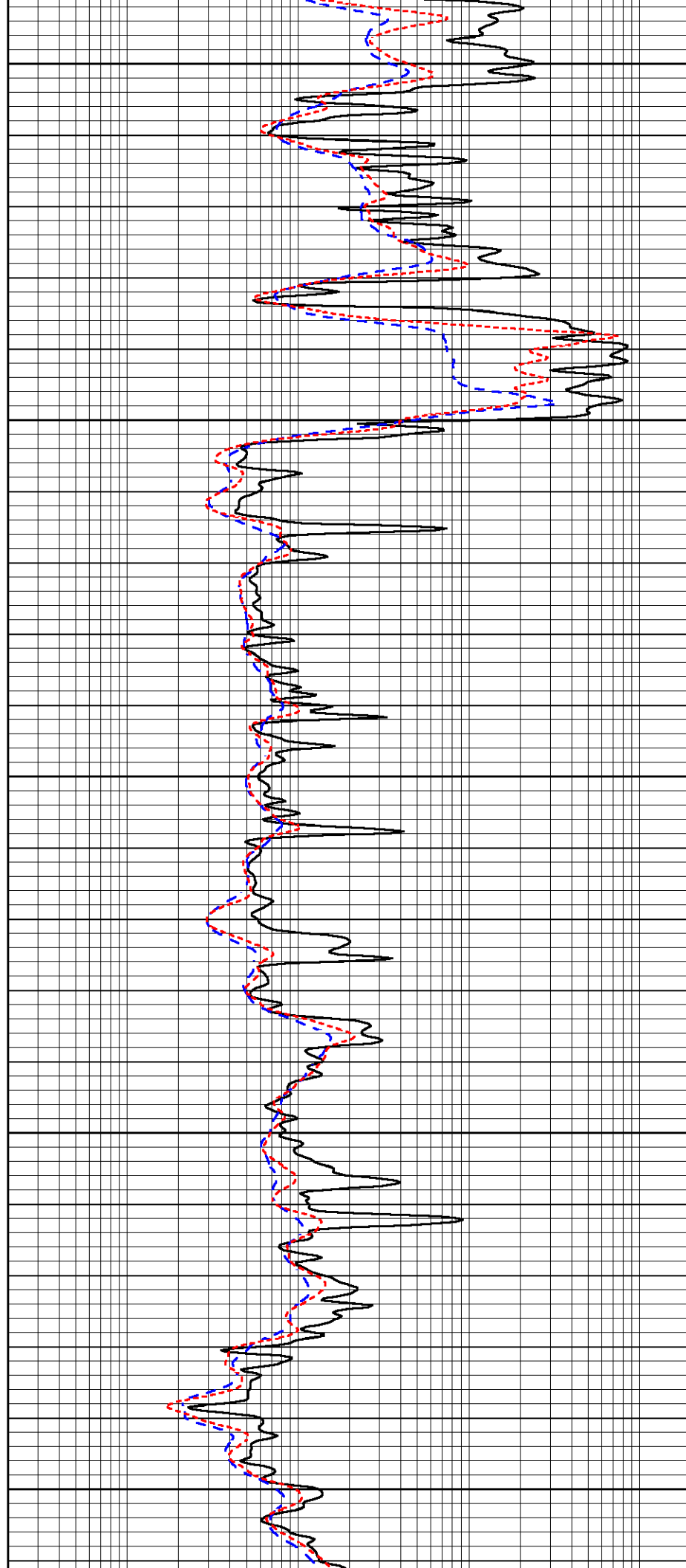
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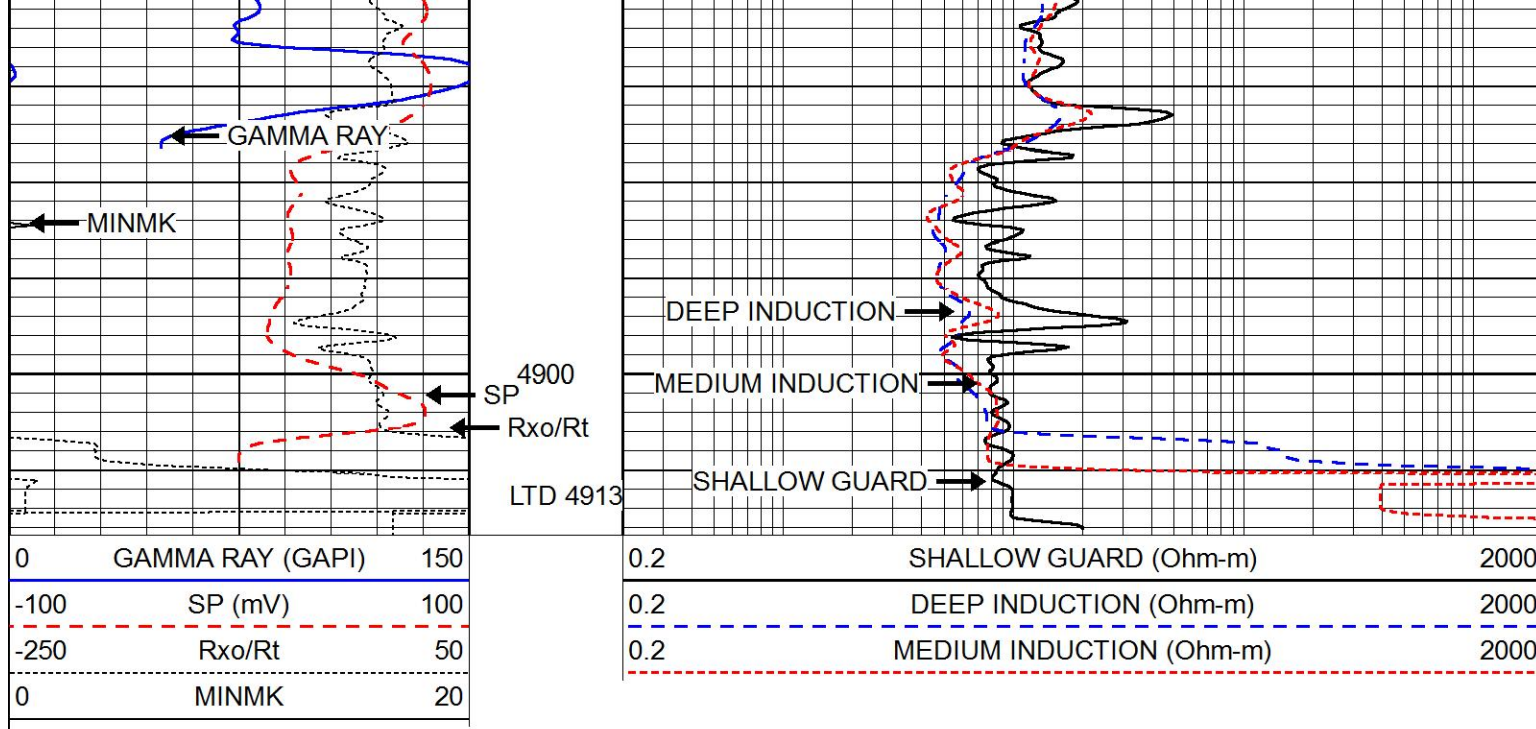
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4750

4800

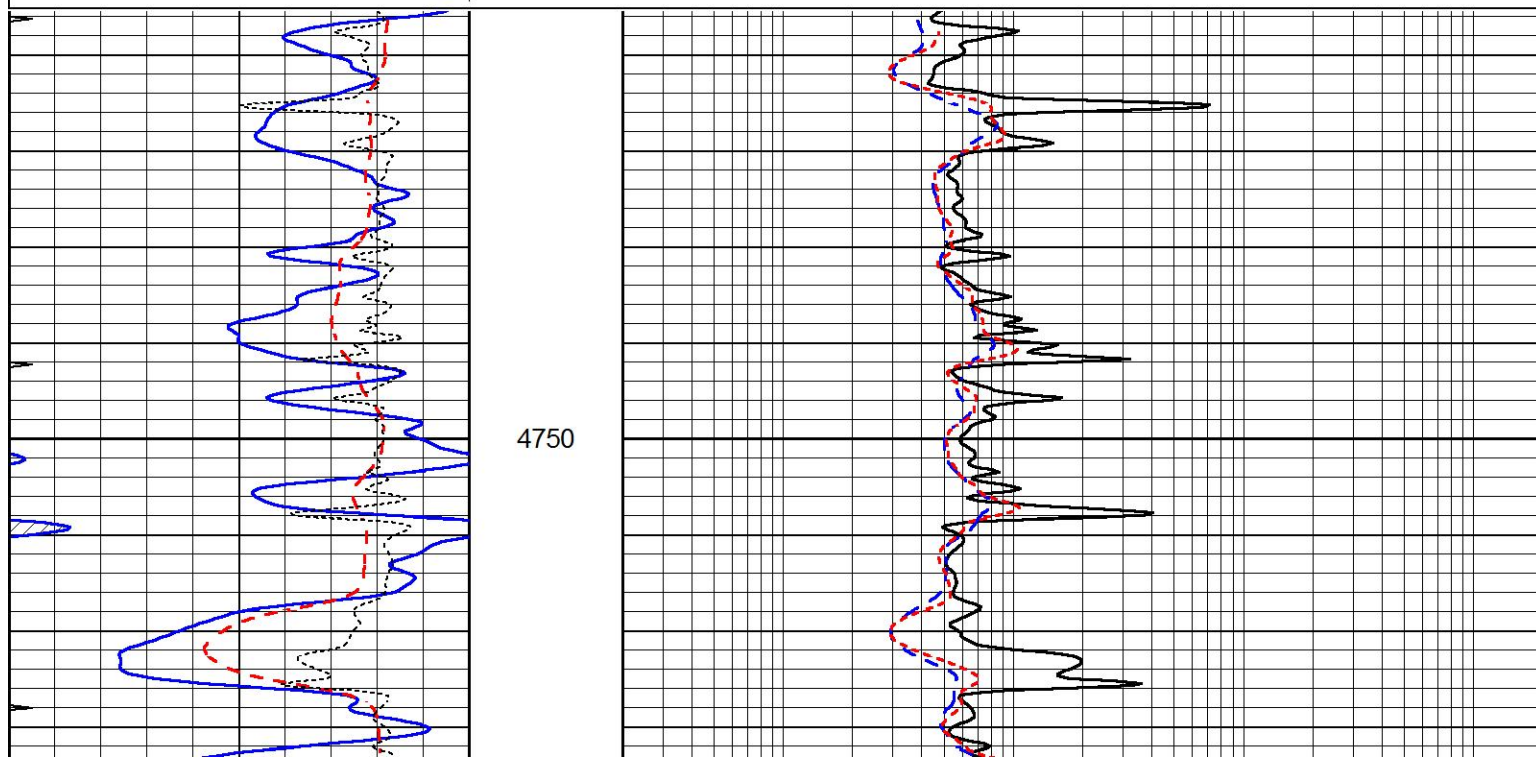
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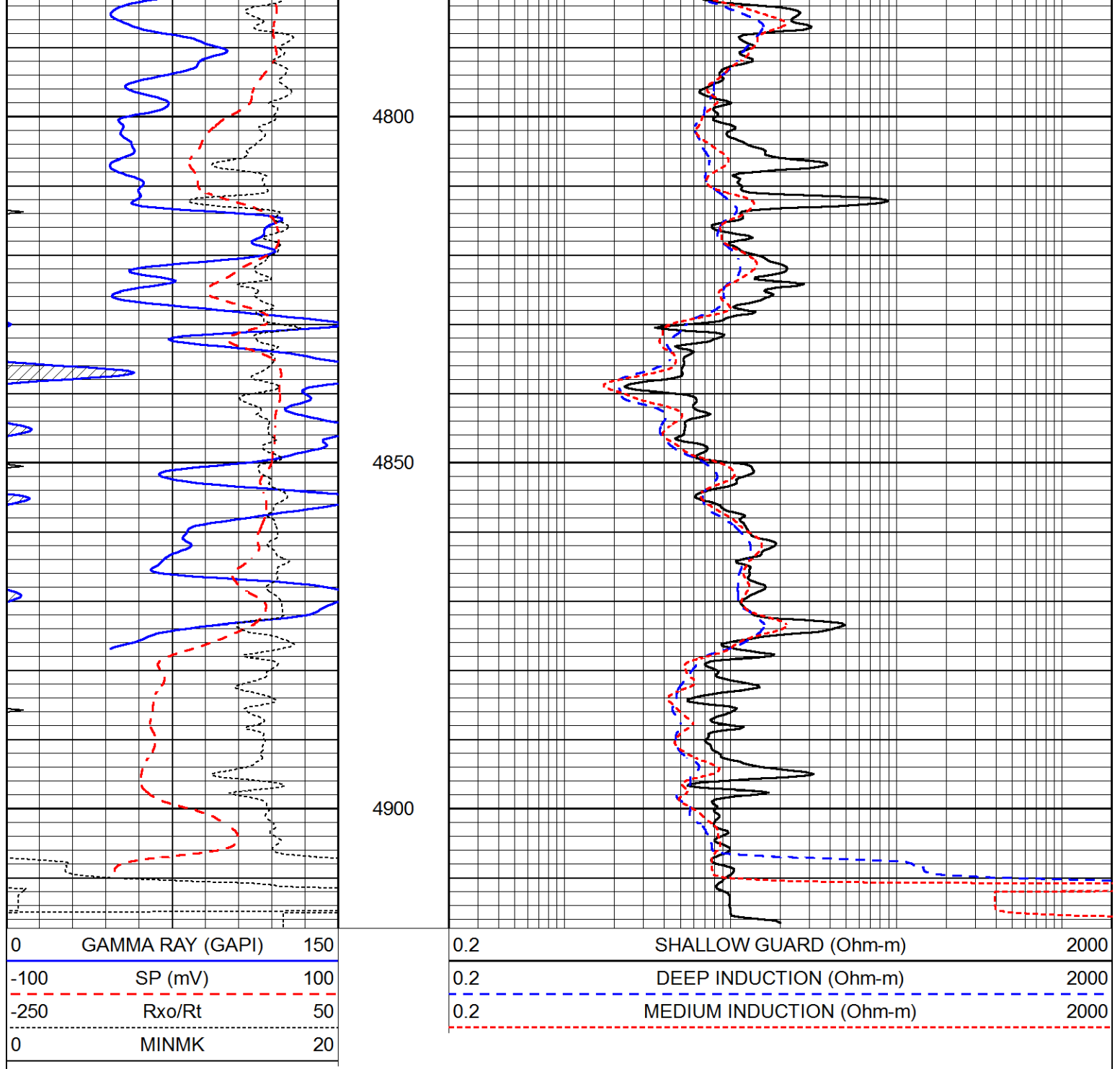




REPEAT SECTION

Database File 5432ddn.db
 Dataset Pathname pass2.1
 Presentation Format _dil
 Dataset Creation Thu Apr 29 19:10:44 2021
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File 5432ddn.db
 Dataset Pathname pass2.1
 Dataset Creation Thu Apr 29 19:10:44 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		
Window 2	1446.2		6523.9	2552.8		2409.9		
Window 3	1060.9		3611.4	1731.5		1684.8		
Window 4	145.5		363.4	363.2		368.1		
Long Space	0.0		5077.7	1106.6		963.7		
Short Space	3.1		1709.3	1103.4		916.9		
Rho			1.7100	2.5900		0.0000		
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	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			
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	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	1.0000
Long Space		1.00	cps	1.00	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					
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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	