

DUAL INDUCTION LOG

Company	PICKRELL DRILLING CO., INC.	Company	PICKRELL DRILLING CO., INC.
Well	PETERSILIE BT#1	Well	PETERSILIE BT#1
Field	PETERSILIE NE	Field	PETERSILIE NE
County	NESS	County	NESS
State	KANSAS	State	KANSAS
Location:	API # : 15-135-26103-0000 2310' FNL & 1320' FEL	Other Services CDL/CNL ML	
Permanent Datum	SEC 12 TWP 20S RGE 24W	Elevation	
Log Measured From	GROUND LEVEL Elevation 2321	K.B. 2328	
Drilling Measured From	KELLY BUSHING 7' A.G.L. KELLY BUSHING	D.F. 2326	
		G.L. 2321	
Date	07/01/21		
Run Number	ONE		
Depth Driller	4535		
Depth Logger	4534		
Bottom Logged Interval	4533		
Top Log Interval	00		
Casing Driller	8 5/8" @ 221		
Casing Logger	221		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4/46		
pH / Fluid Loss	10.5/9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.5@ 80F		
Rmf @ Meas. Temp	.38@ 80F		
Rmc @ Meas. Temp	.60 @ 80F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.34@ 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	AARON YOUNG		

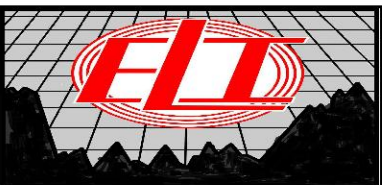
<<< Fold Here >>>

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

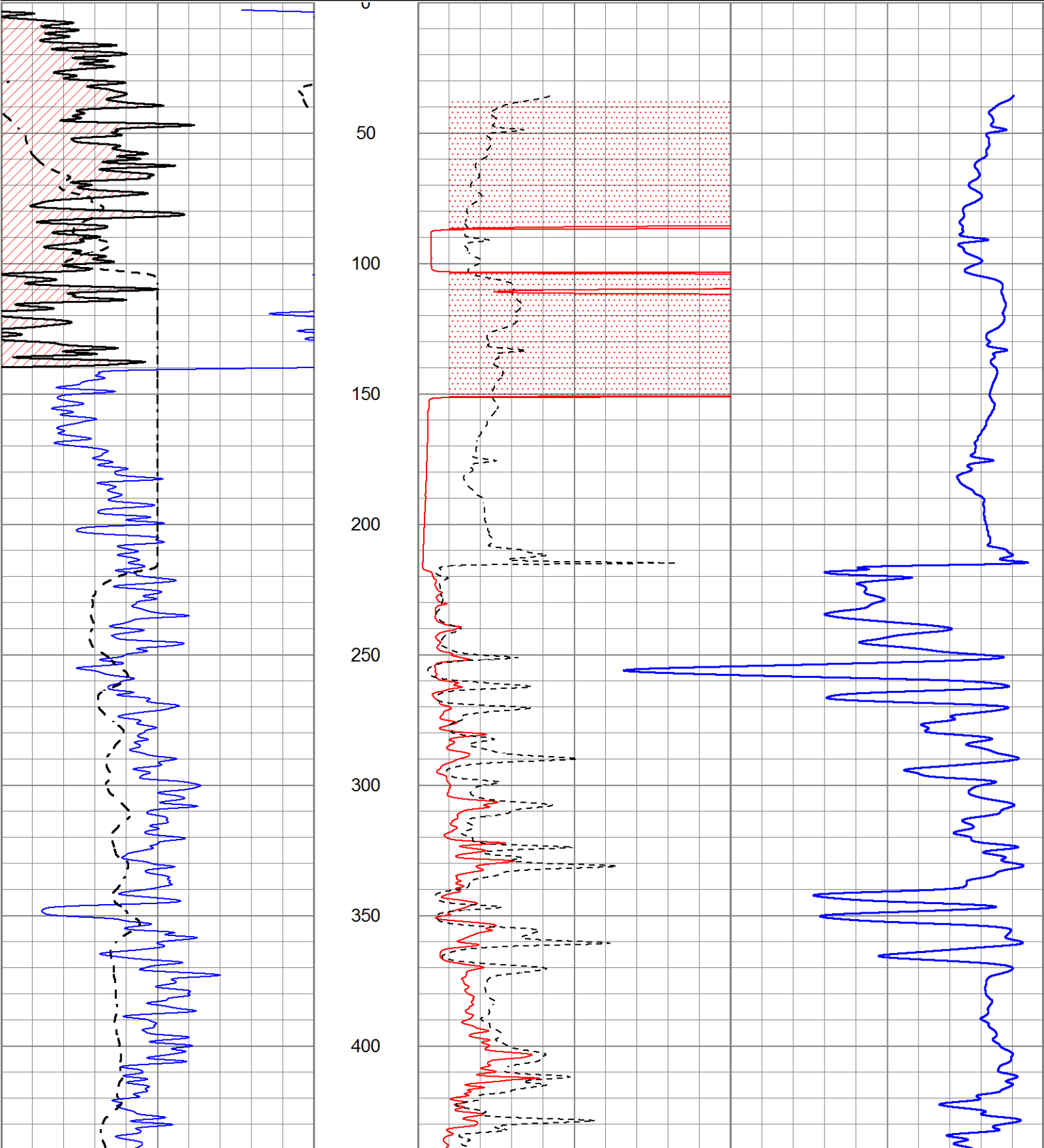
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395

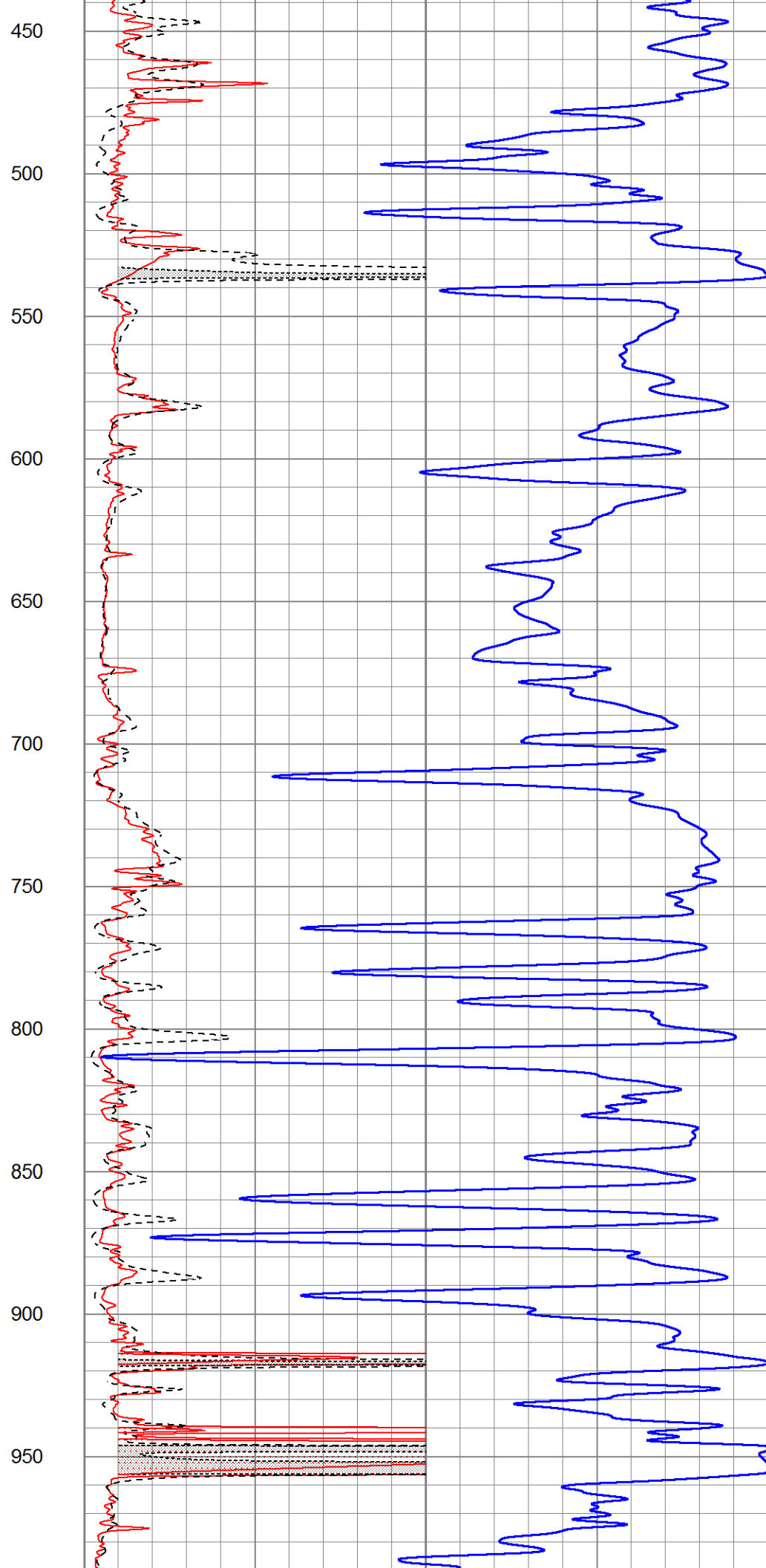
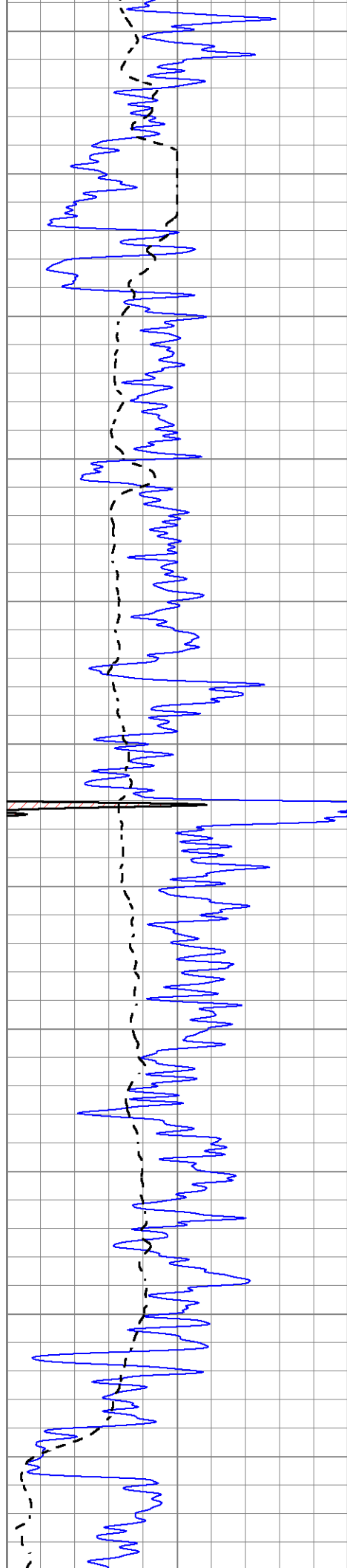
DIRECTIONS:NESS CITY SOUTH TO RD. W 40, 1 MILE WEST
1/4 NORTH, WEST INTO.

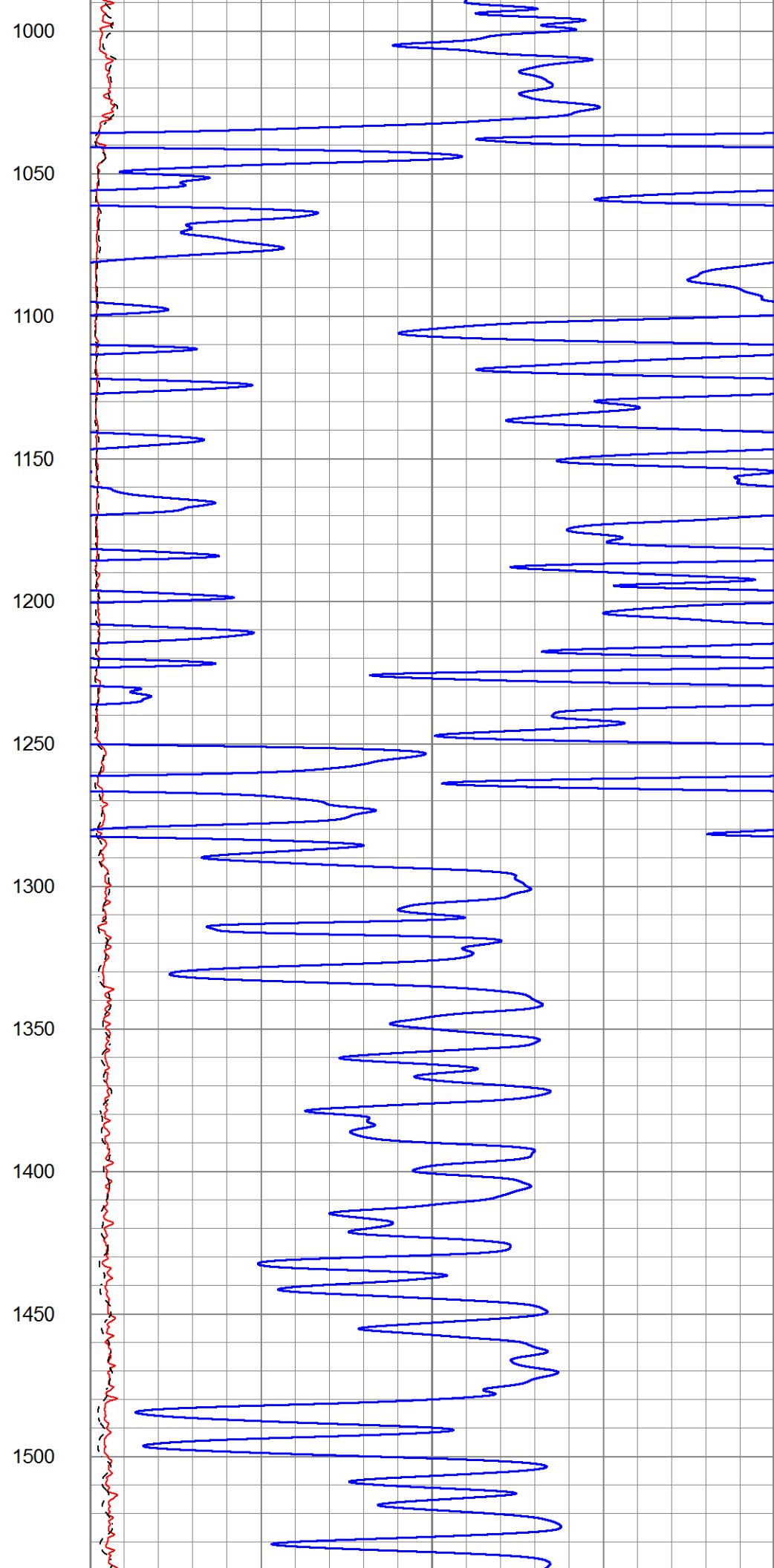
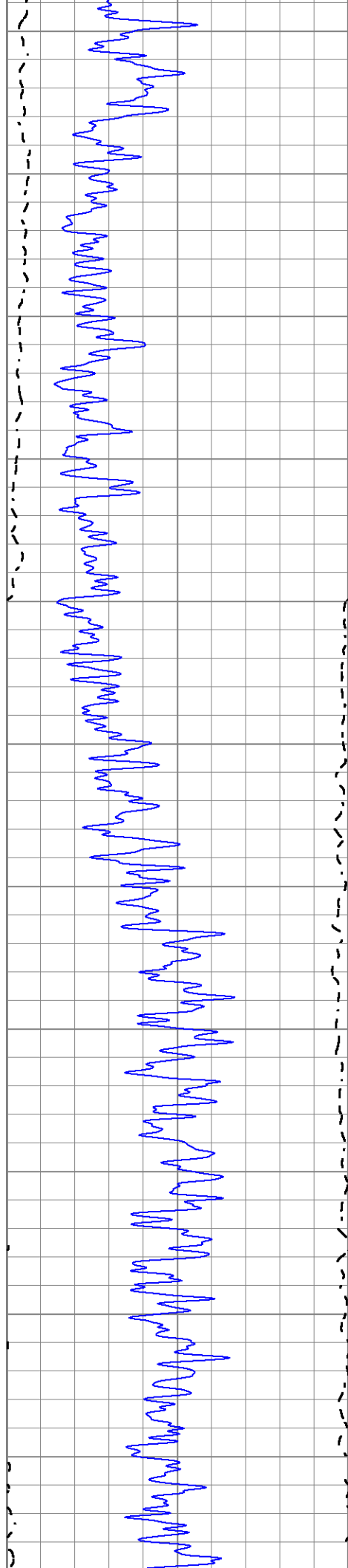


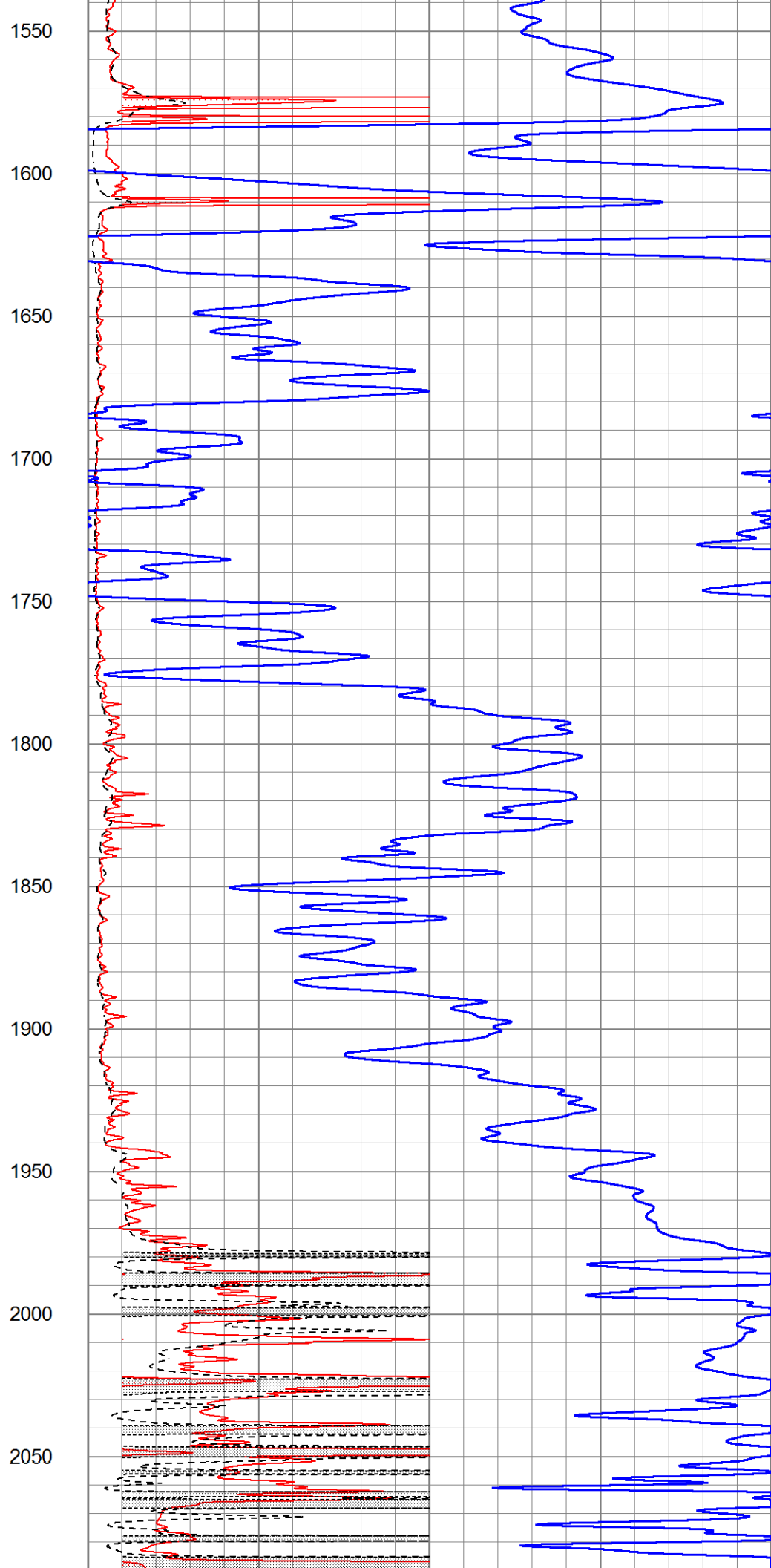
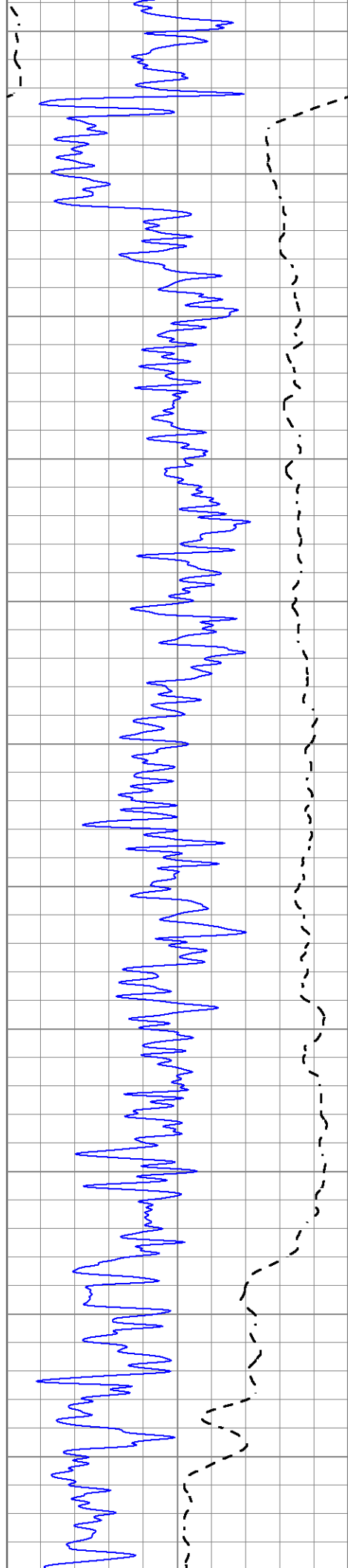
MAIN PASS

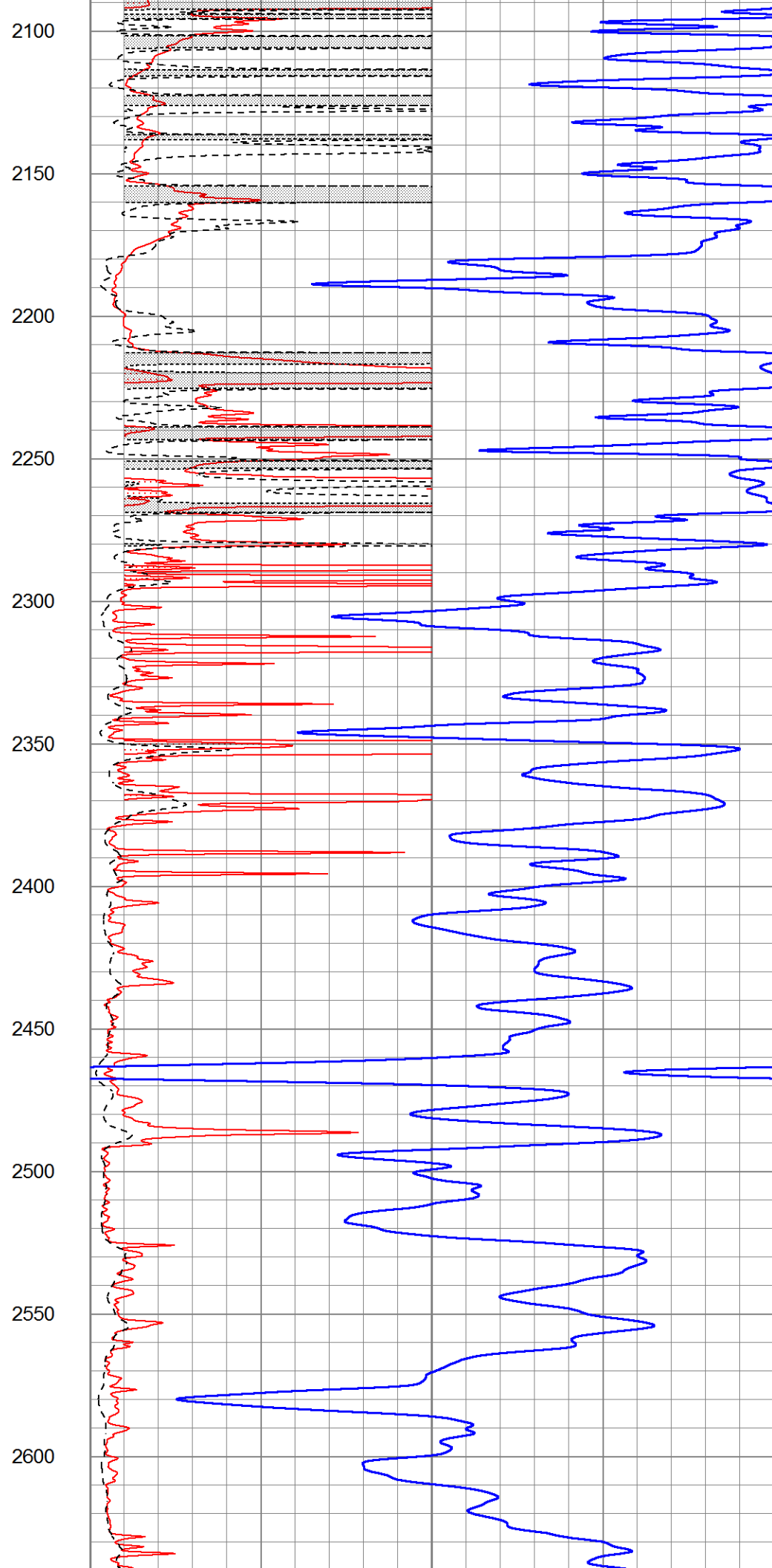
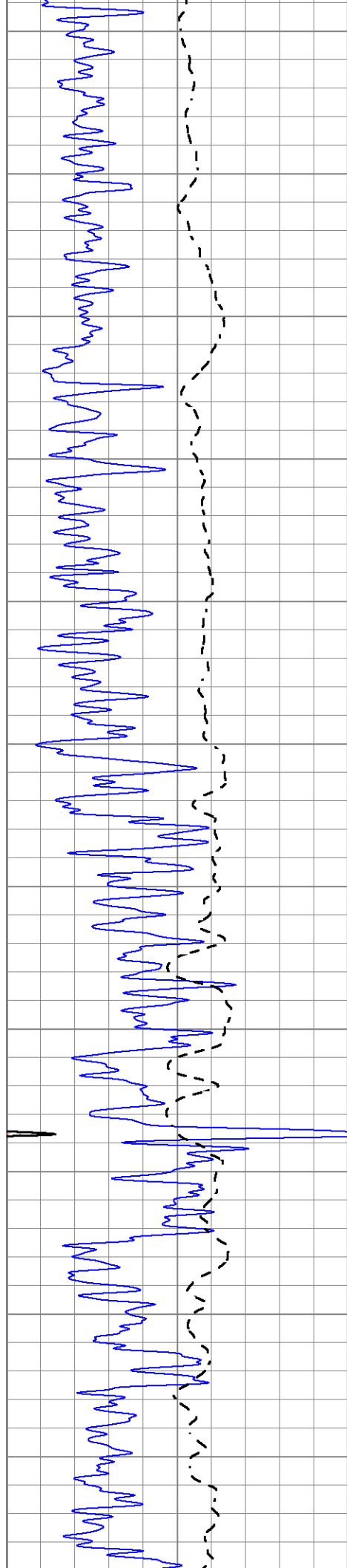
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500

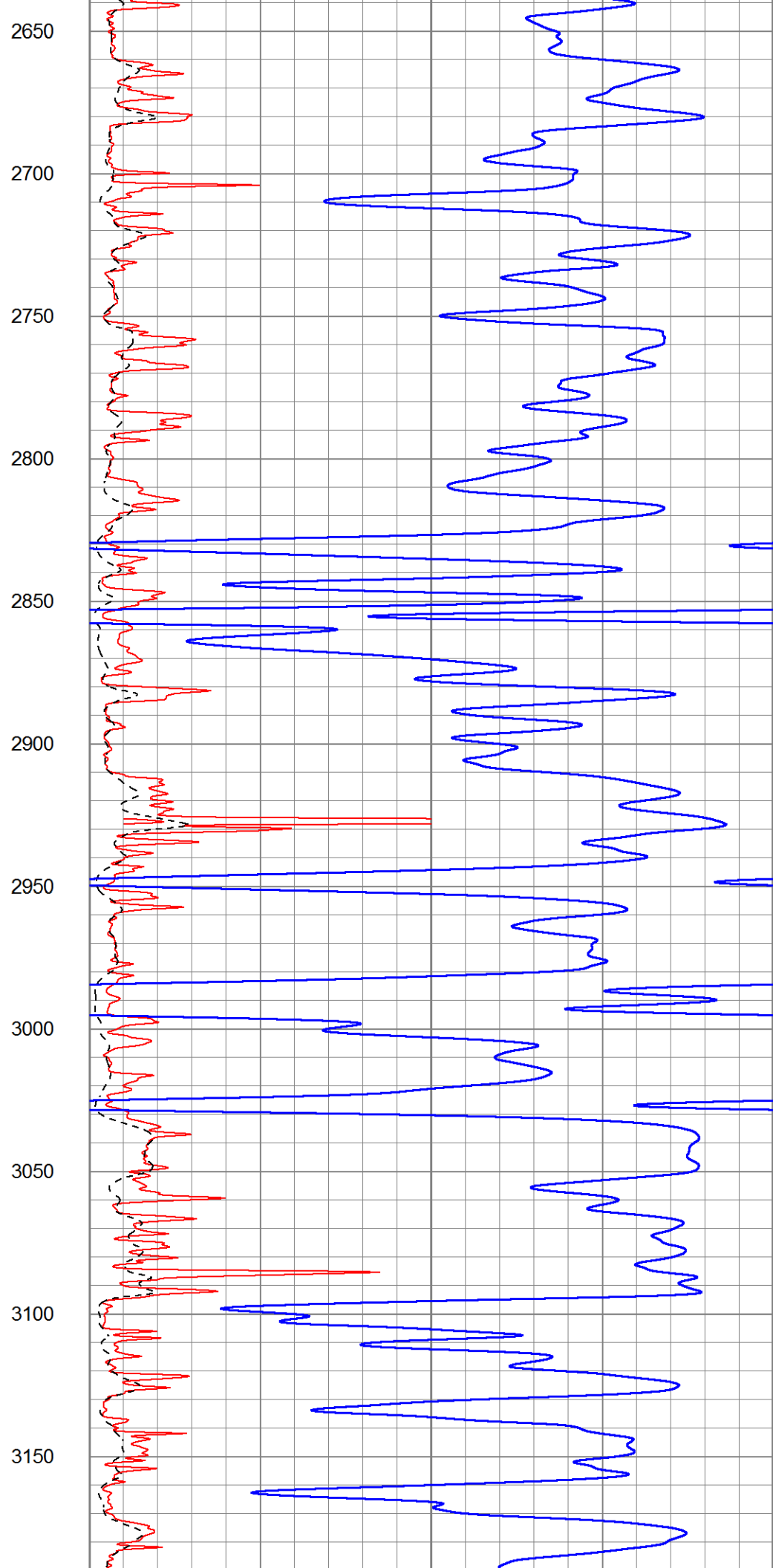
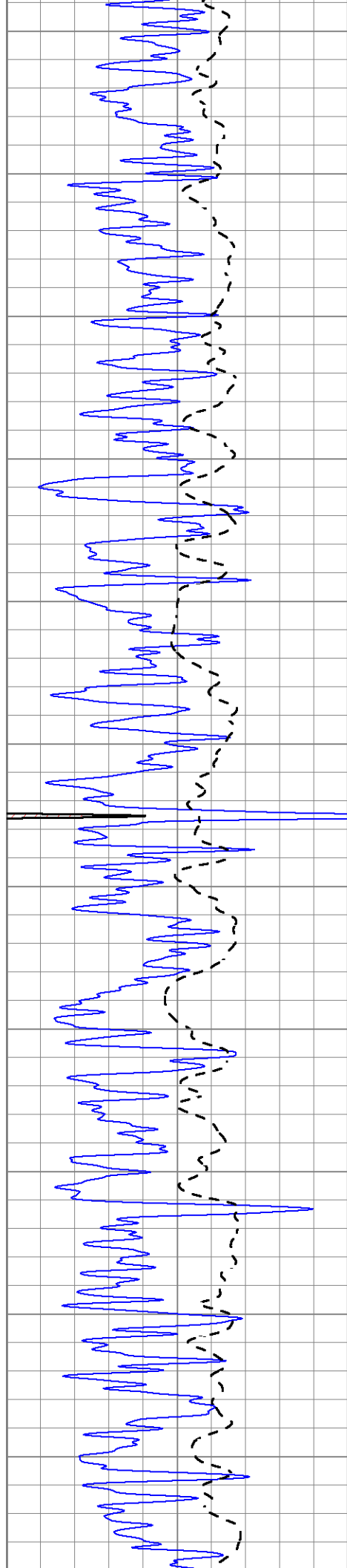


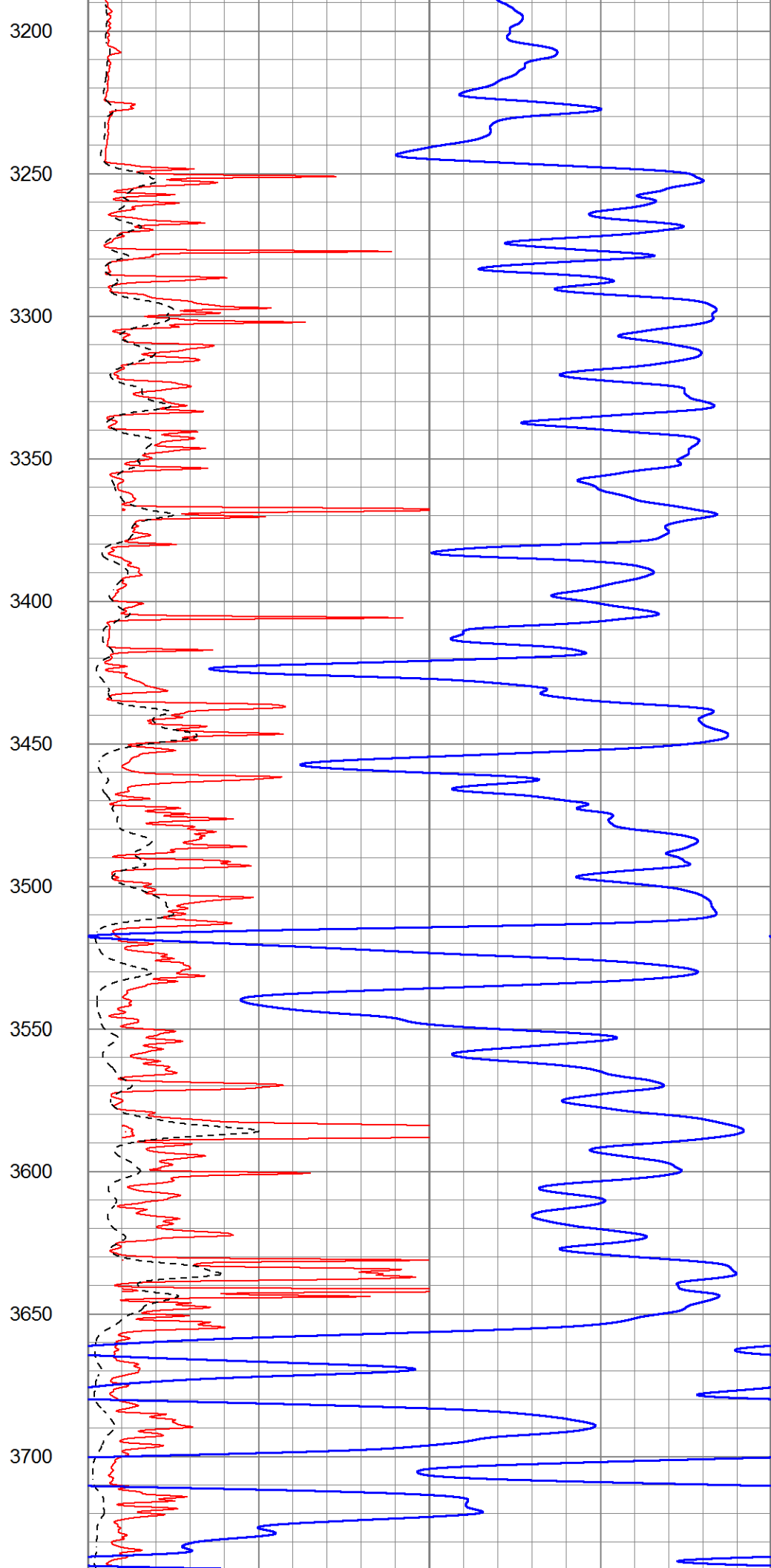
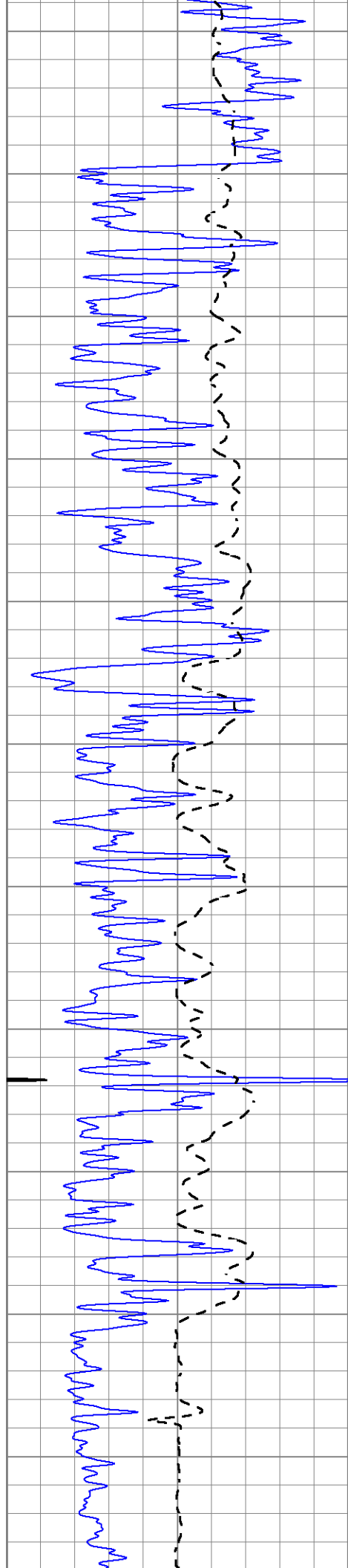


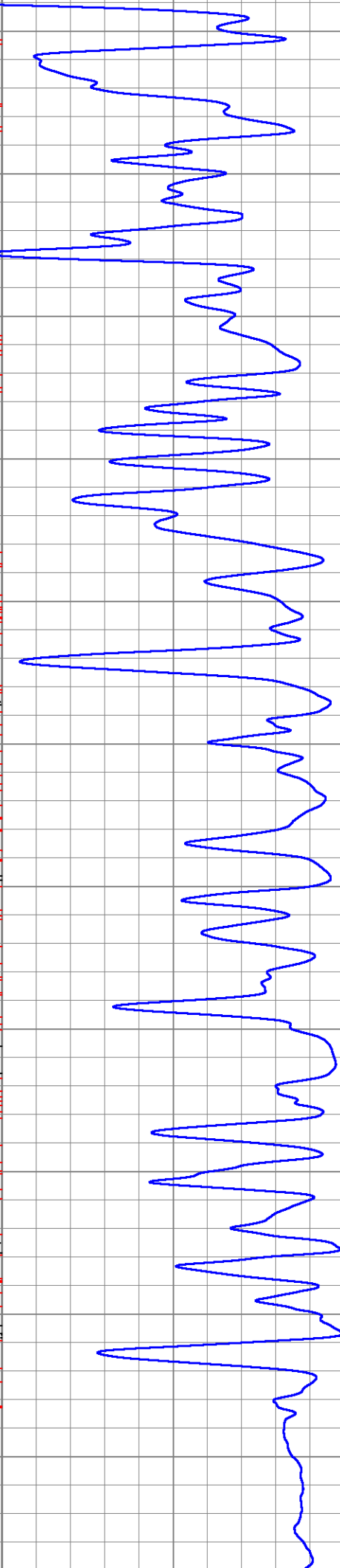
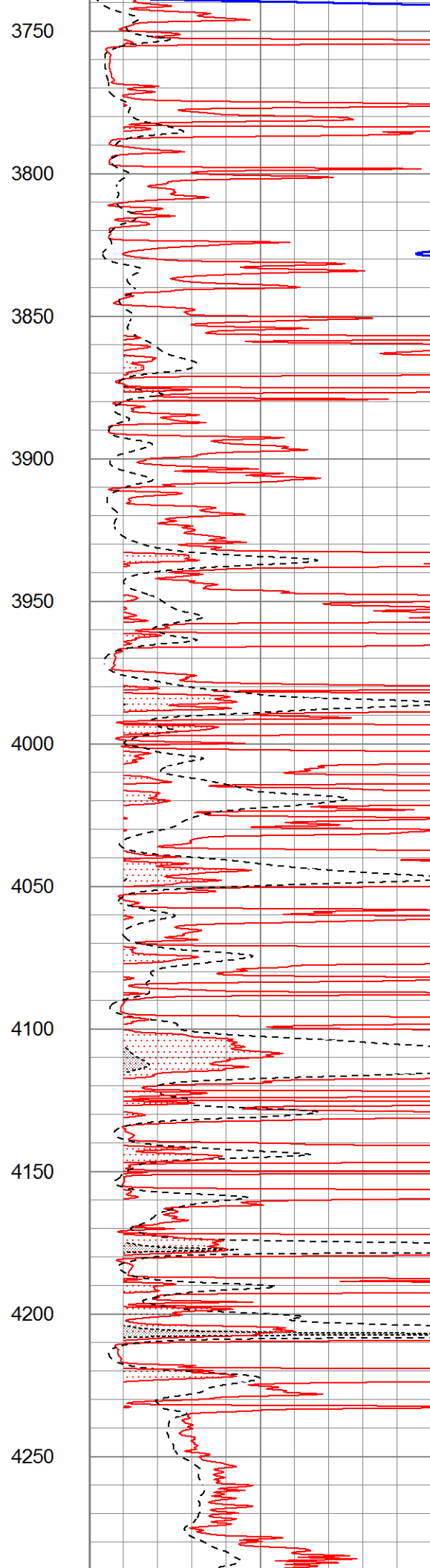
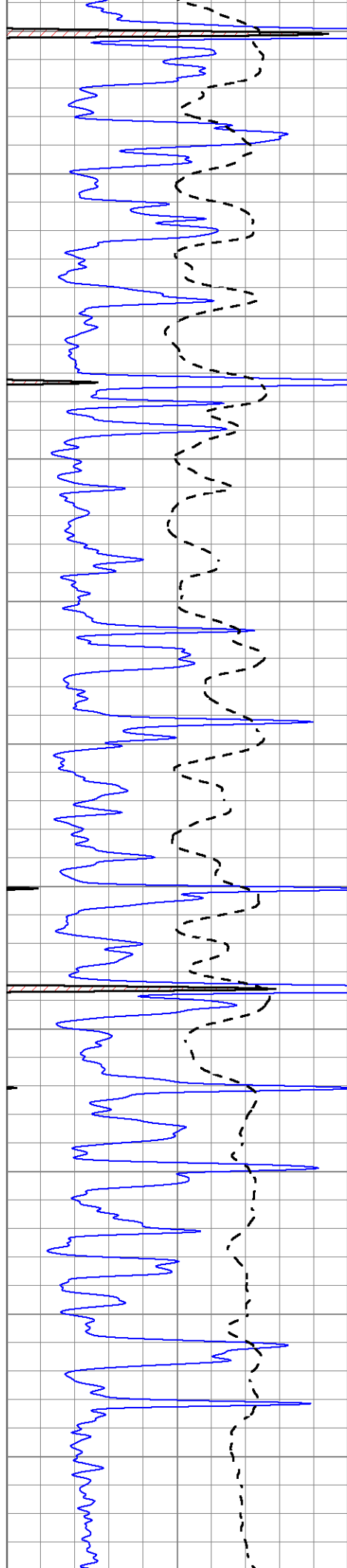


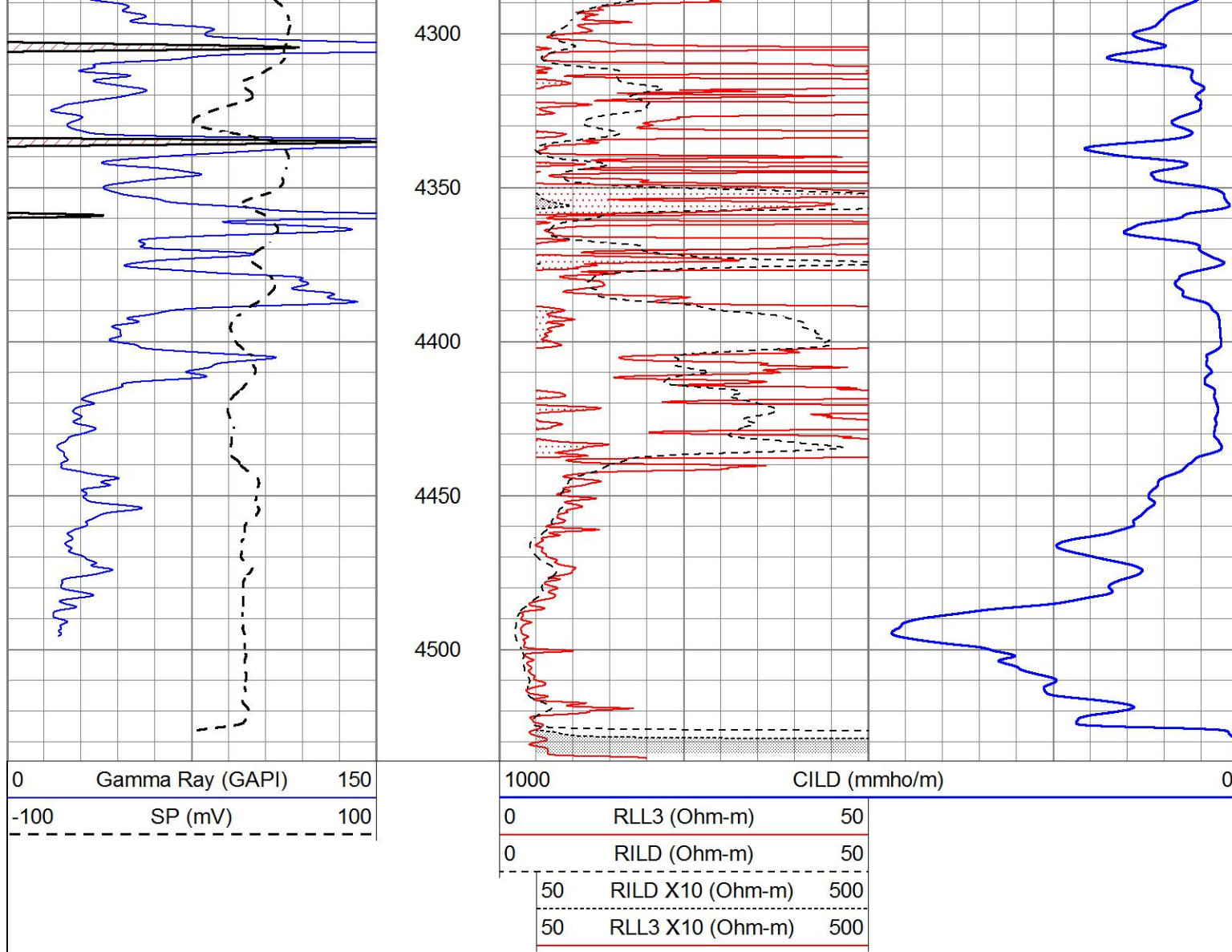








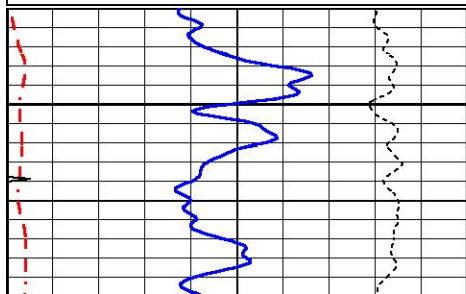




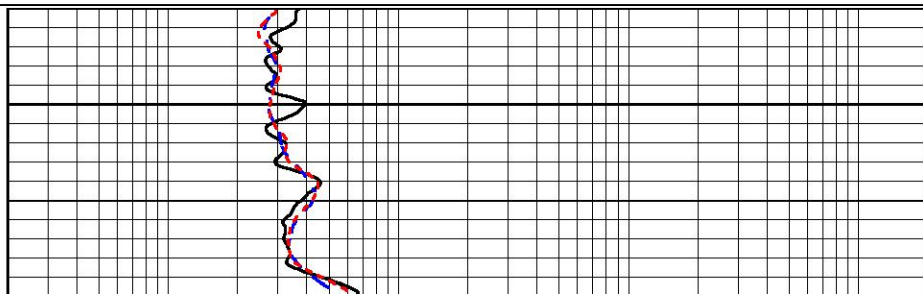
MAIN PASS

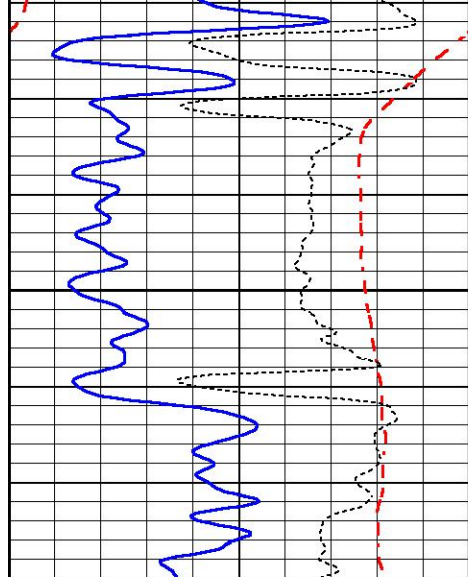
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Dataset Pathname pass3.1
Presentation Format _dil
Dataset Creation Thu Jul 01 01:57:30 2021
Charted by Depth in Feet scaled 1:240

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			



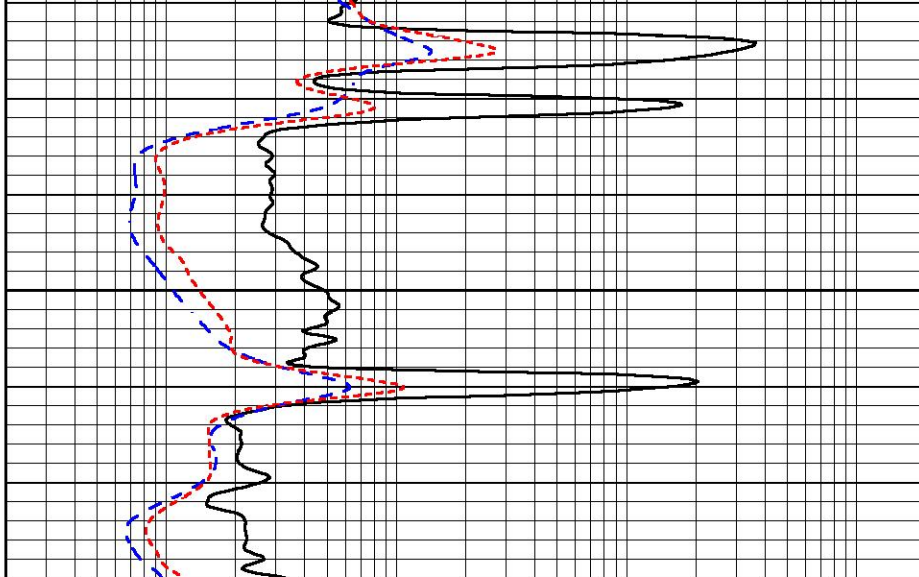
1550





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

1600



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

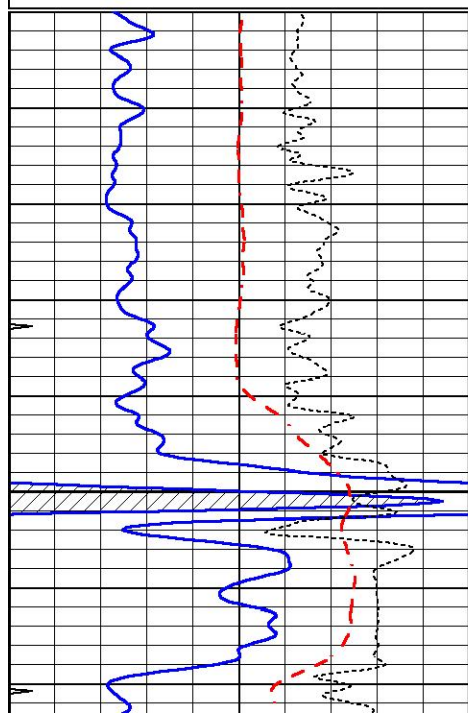


MAIN PASS

Database File 5448pe.db
 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Thu Jul 01 01:57:30 2021
 Charted by Depth in Feet scaled 1:240

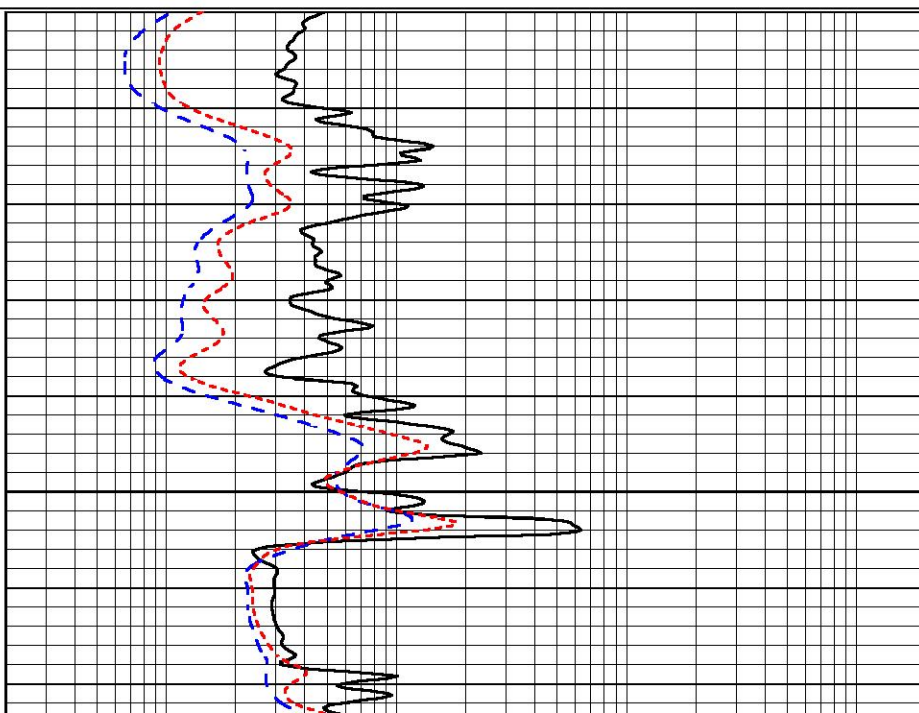
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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

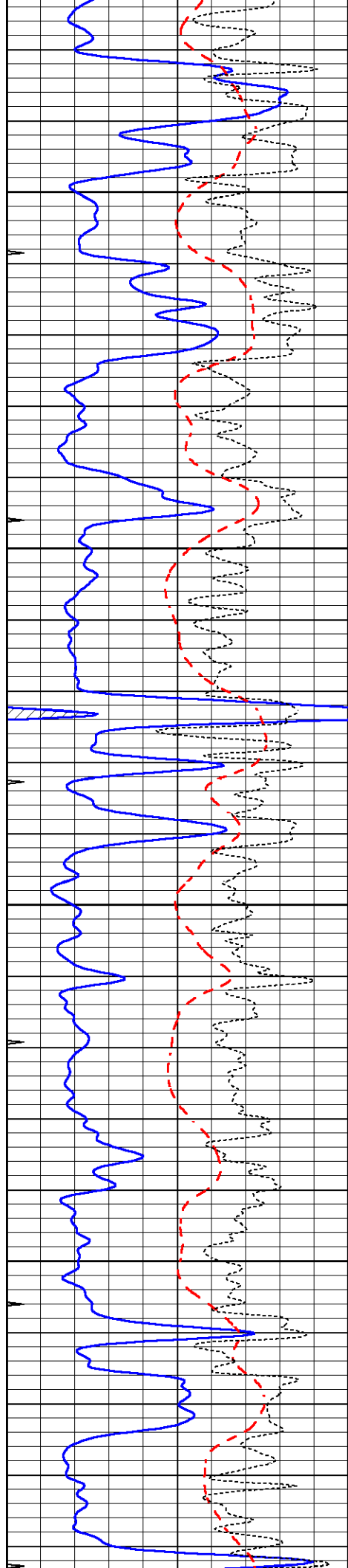
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



3700

3750



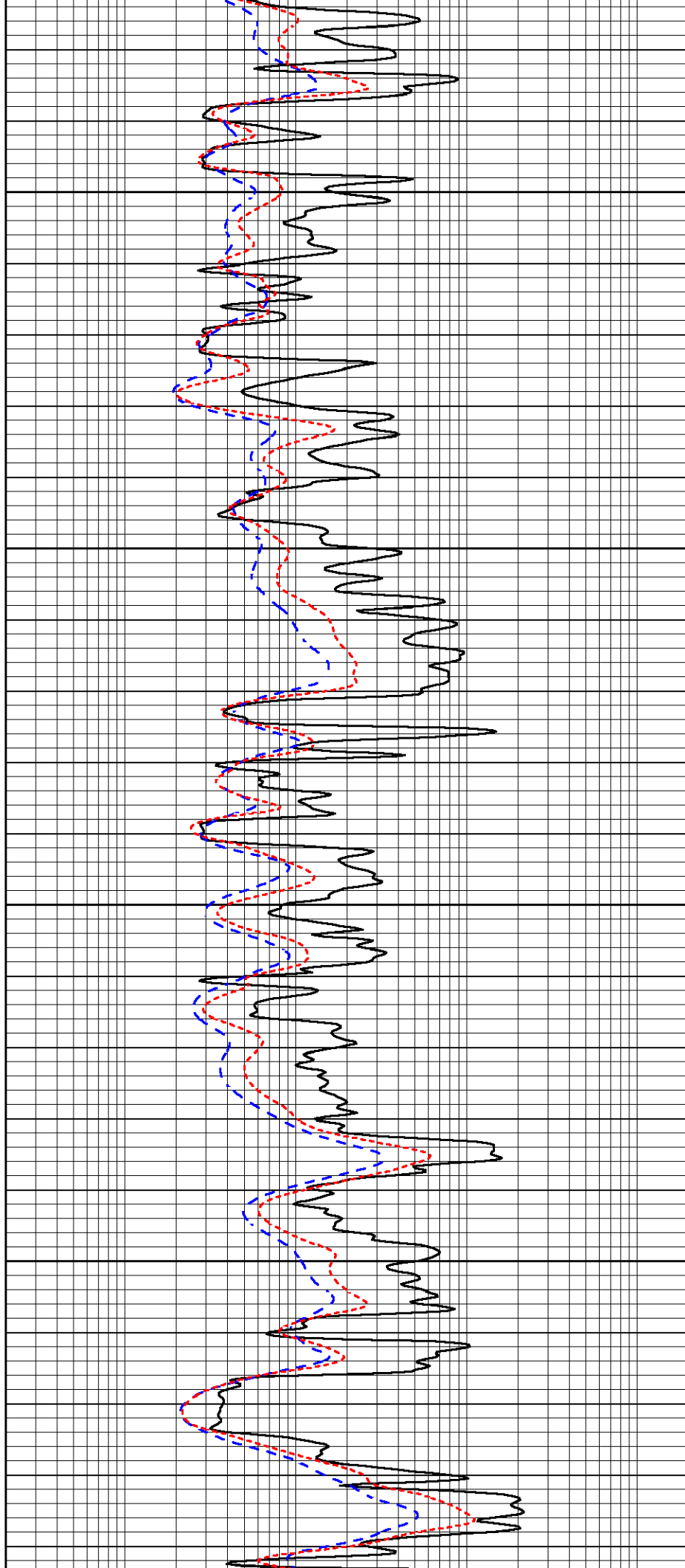


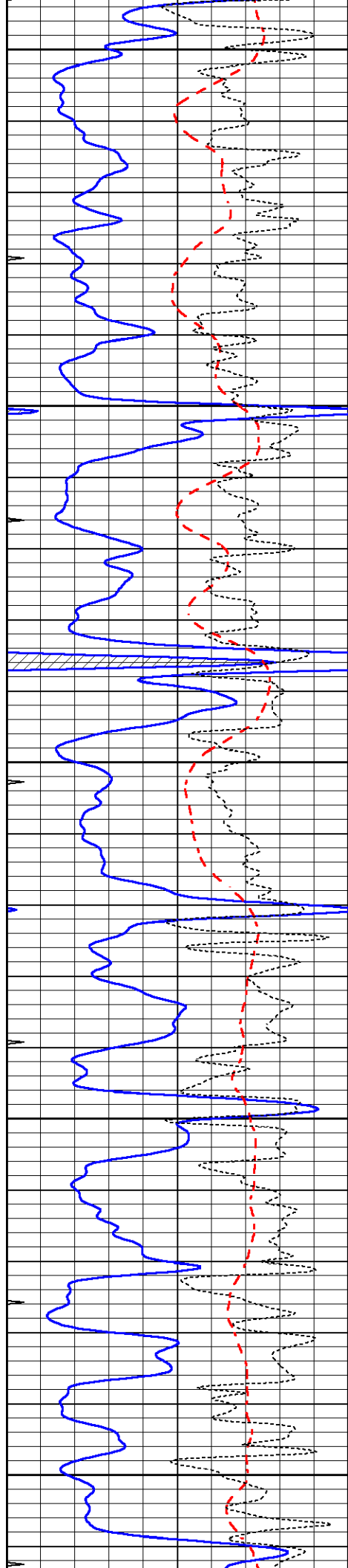
3800

3850

3900

3950





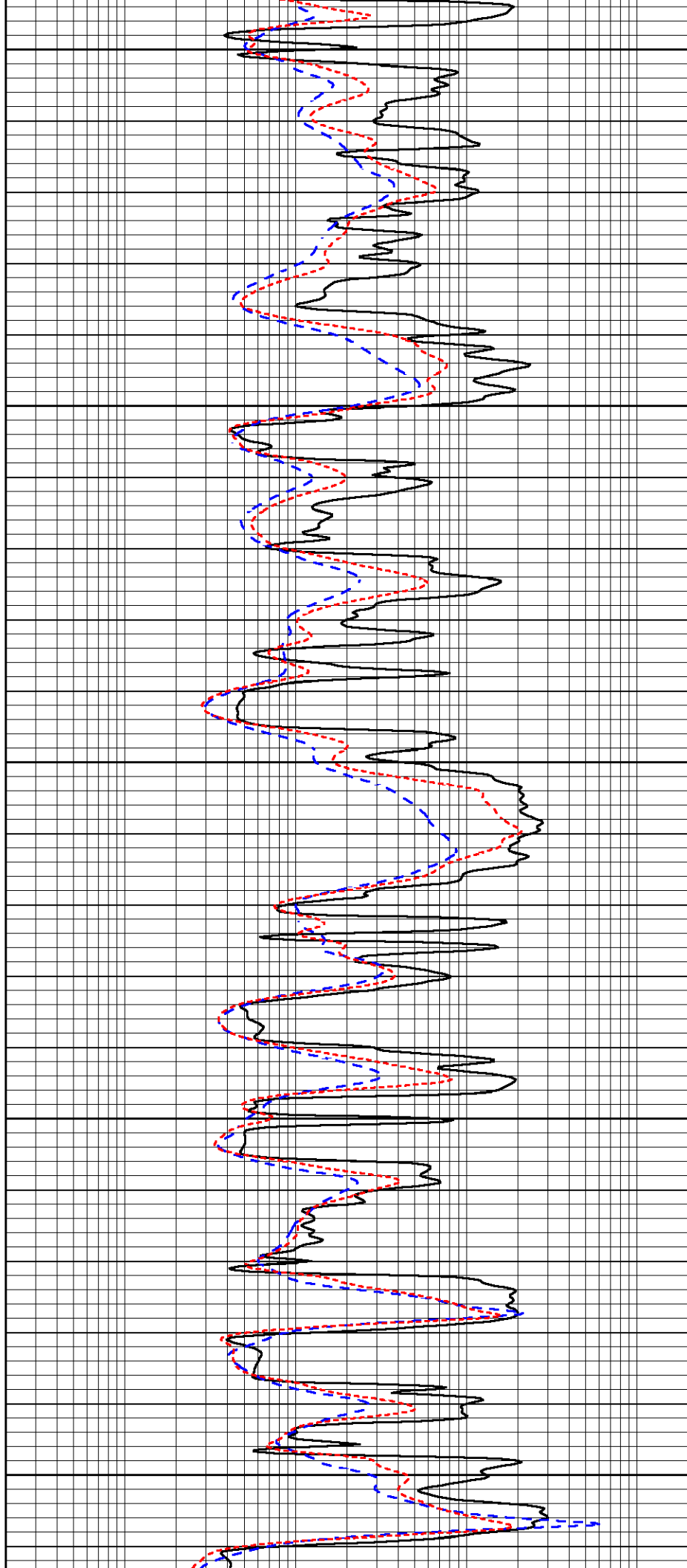
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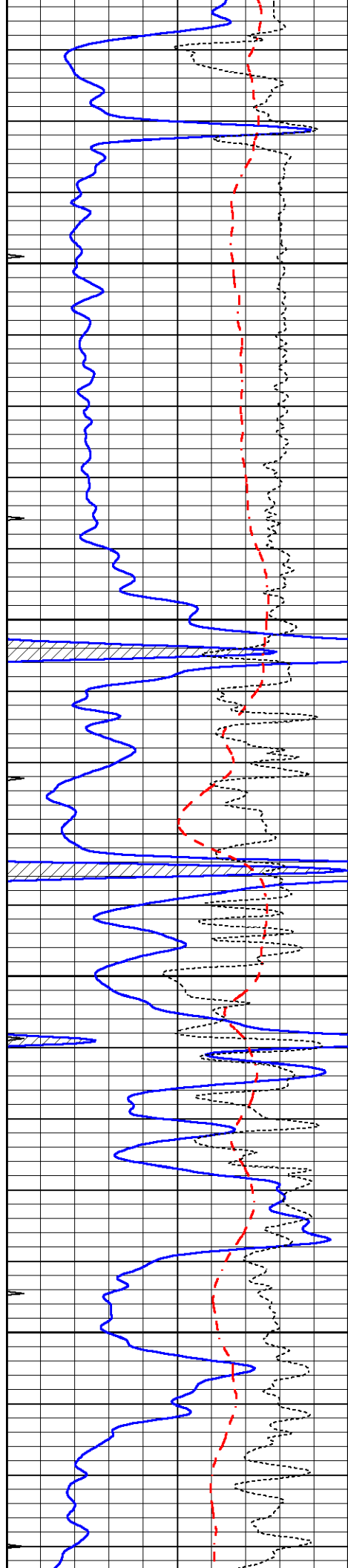
4050

4100

4150

4200



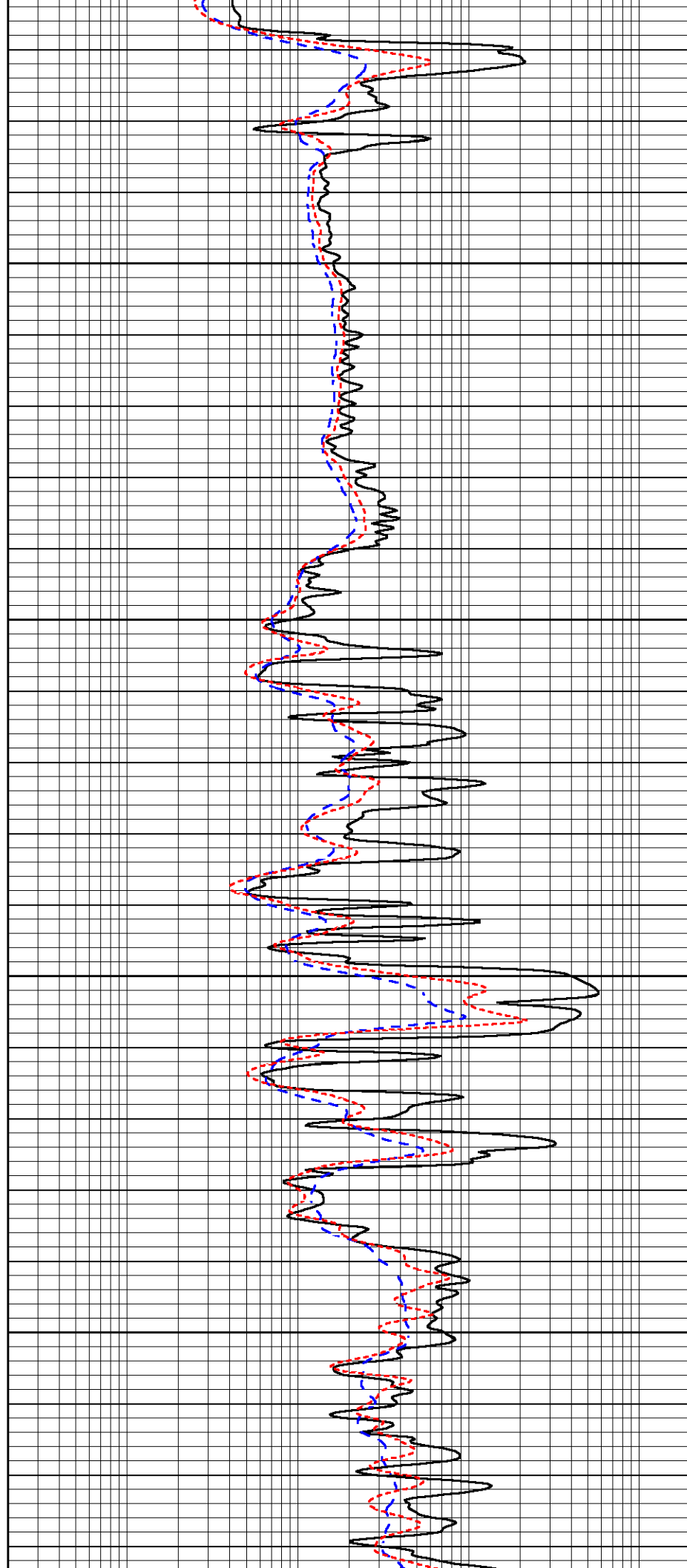


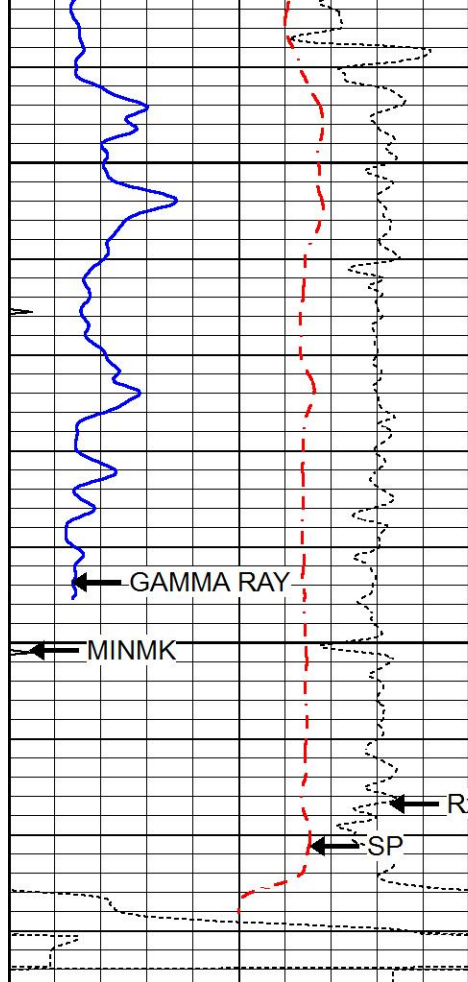
4250

4300

4350

4400



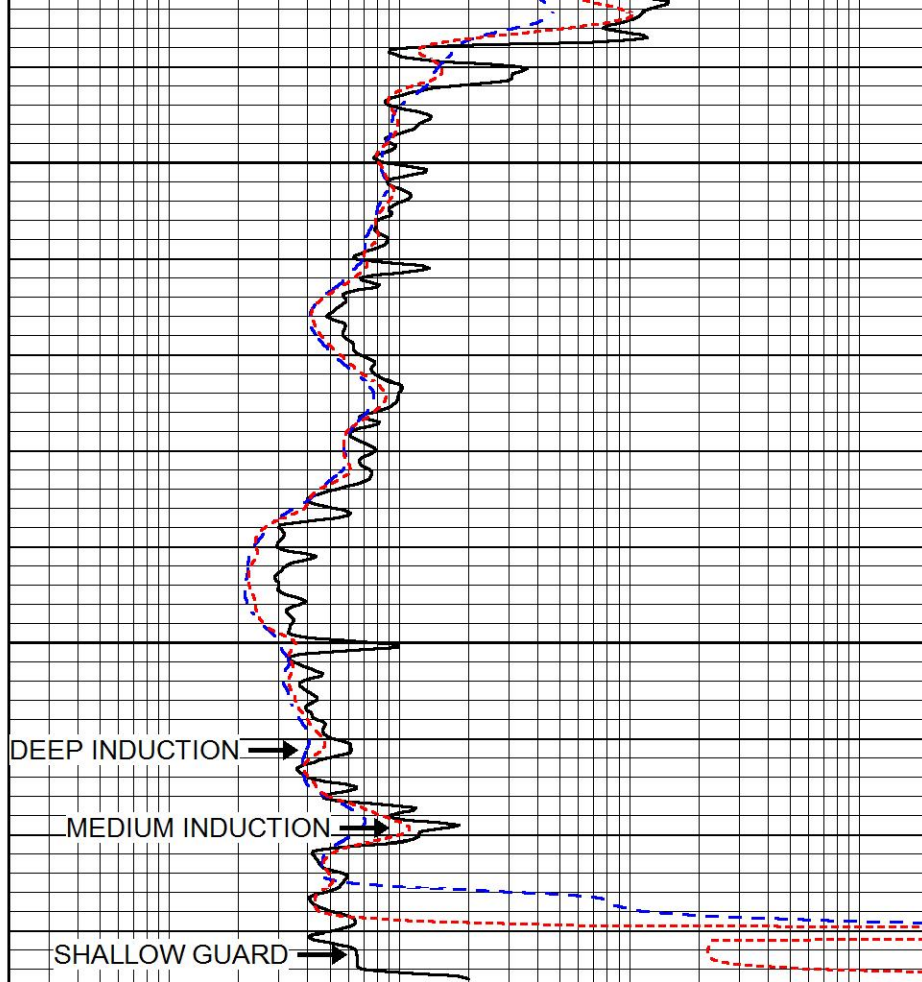


4450

4500

LTD 4534

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

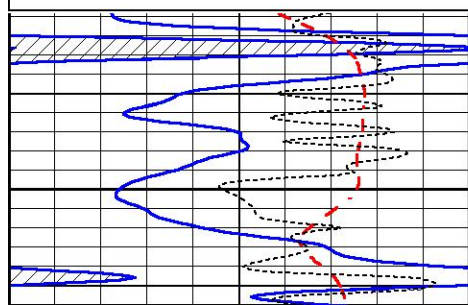


REPEAT SECTION

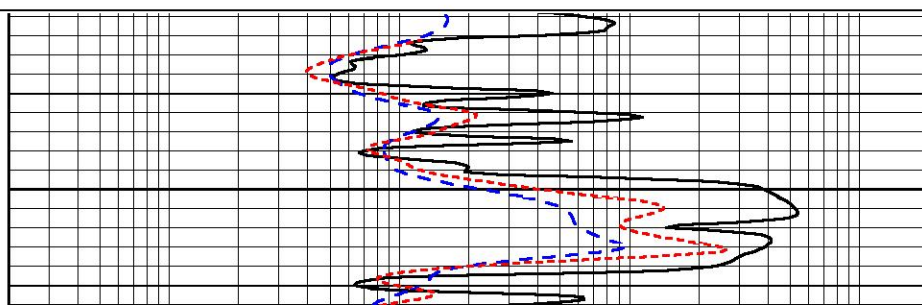
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 Dataset Pathname pass2.1
 Presentation Format _dil
 Dataset Creation Thu Jul 01 01:02:07 2021
 Charted by Depth in Feet scaled 1:240

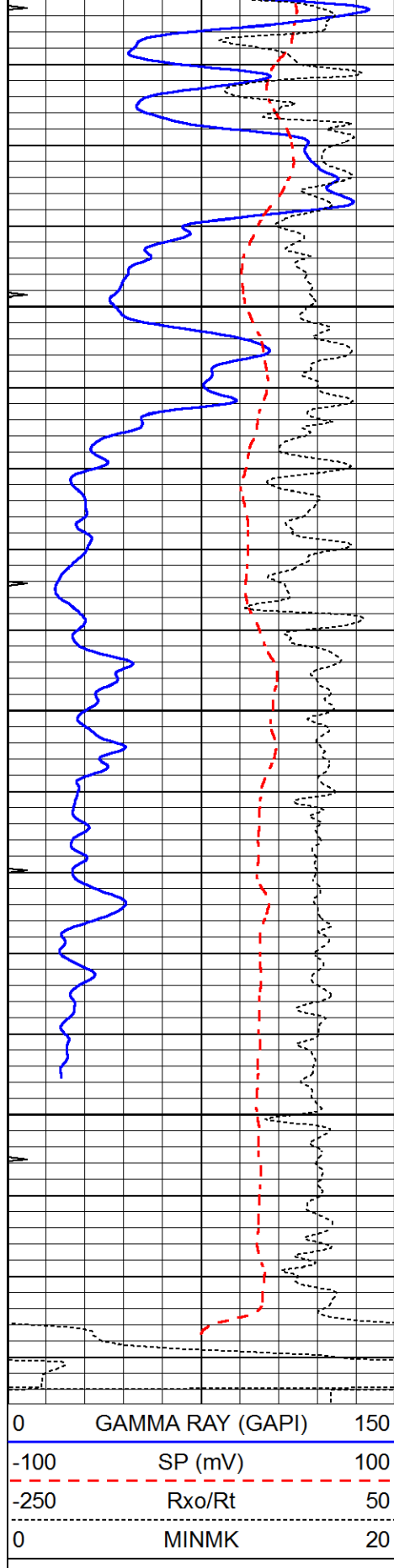
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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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



4350

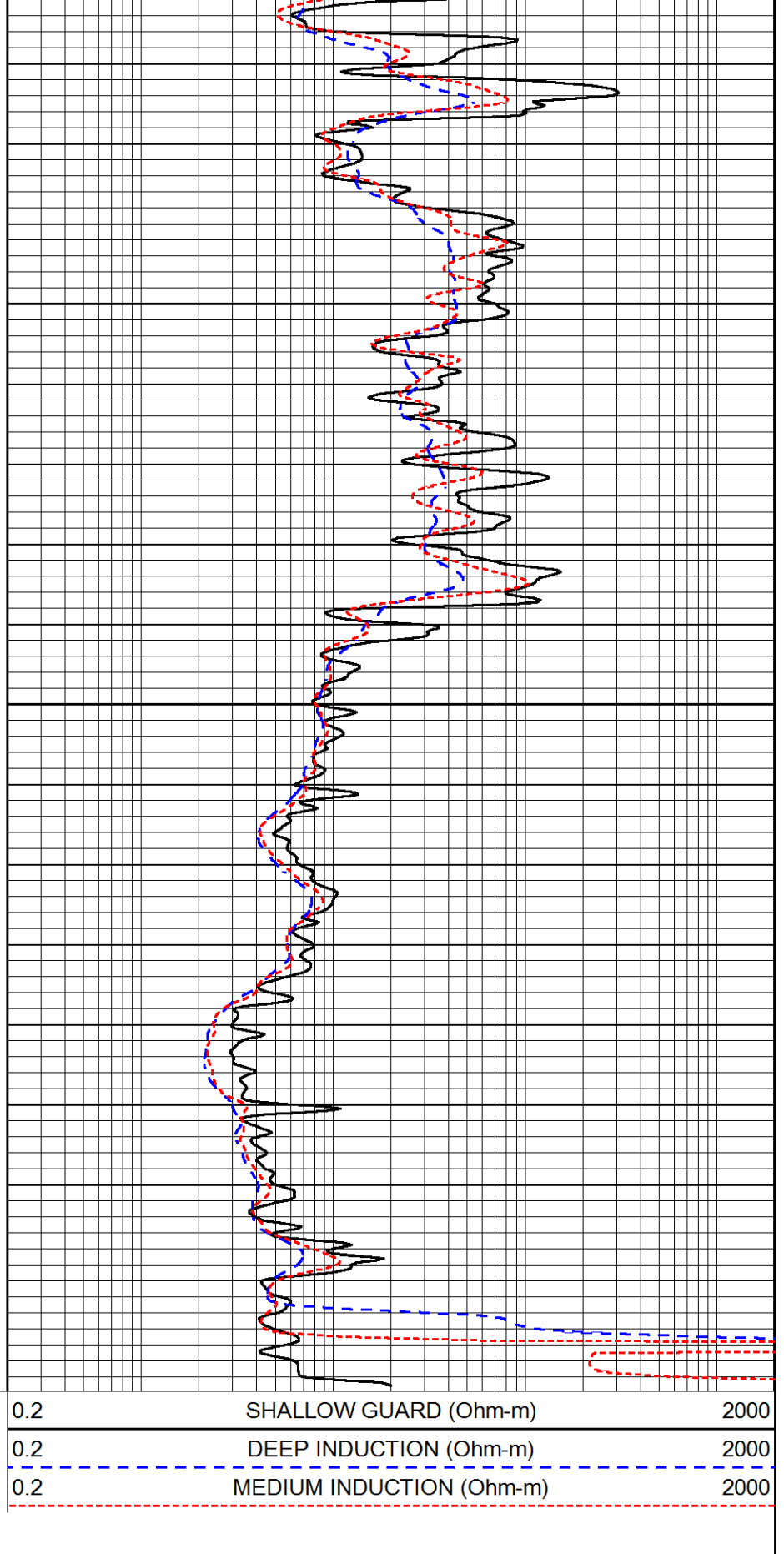




4400

4450

4500



Calibration Report

Database File 5448pe.db
Dataset Pathname pass2.1
Dataset Creation Thu Jul 01 01:02:07 2021

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: 002N Model: PRB

Master Calibration

Performed Tue Mar 10 15:08:00 2020

	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	780.1	6981.9	2088.6	1871.2	cps
Window 2	718.6	5898.2	1813.8	1664.1	cps
Window 3	580.0	2989.5	1088.0	1039.1	cps
Window 4	172.8	175.7	175.3	173.5	cps
Long Space	0.0	5179.6	1095.2	945.5	cps
Short Space	1.1	1228.6	821.2	690.4	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	
Rib Angle	: 45.5	Rib Slope	: 1.016	Density/Spine Ratio	: 0.548
Spine Angle	: 75.5	Spine Slope	: 3.857	Spine Intercept	: -18.9

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

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	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