



DUAL INDUCTION LOG

Company SCHIPPERS OIL SERVICES, LLC.

Well MARK ALLEN #1

Field UNNAMED

County SHERIDAN State KANSAS

Location: API # : 15-179-21510-0000

2210 FSL & 1940 FEL
SW - NE - NW - SE

SEC 17 TWP 6S RGE 29W

Permanent Datum GROUND LEVEL Elevation 2833

Log Measured From KELLY BUSHING 7' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL
CNL

Elevation
K.B. 2840
D.F. 2838
G.L. 2833

Date 10/14/24

Run Number ONE

Depth Driller 4173

Depth Logger 4175

Bottom Logged Interval 4173

Top Log Interval 00

Casing Driller 8.625 @ 278

Casing Logger 278

Bit Size 7.875

Type Fluid in Hole CHEMICAL MUD CHLORIDES 1,500 PPM

Density / Viscosity 9.3/57

pH / Fluid Loss 10.5/7.2

Source of Sample FLOWLINE

Rm @ Meas. Temp 1.70 @ 70F

Rmf @ Meas. Temp 1.28 @ 70F

Rmc @ Meas. Temp 2.04 @ 70F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT 1.01 @ 118F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 8:30 P.M.

Maximum Recorded Temperature 118F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By COLE ROBBEN

Witnessed By SEAN DEENIHAN

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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 SERVICES, HAYS, KS. (785) 628-6395

DIRECTIONS:

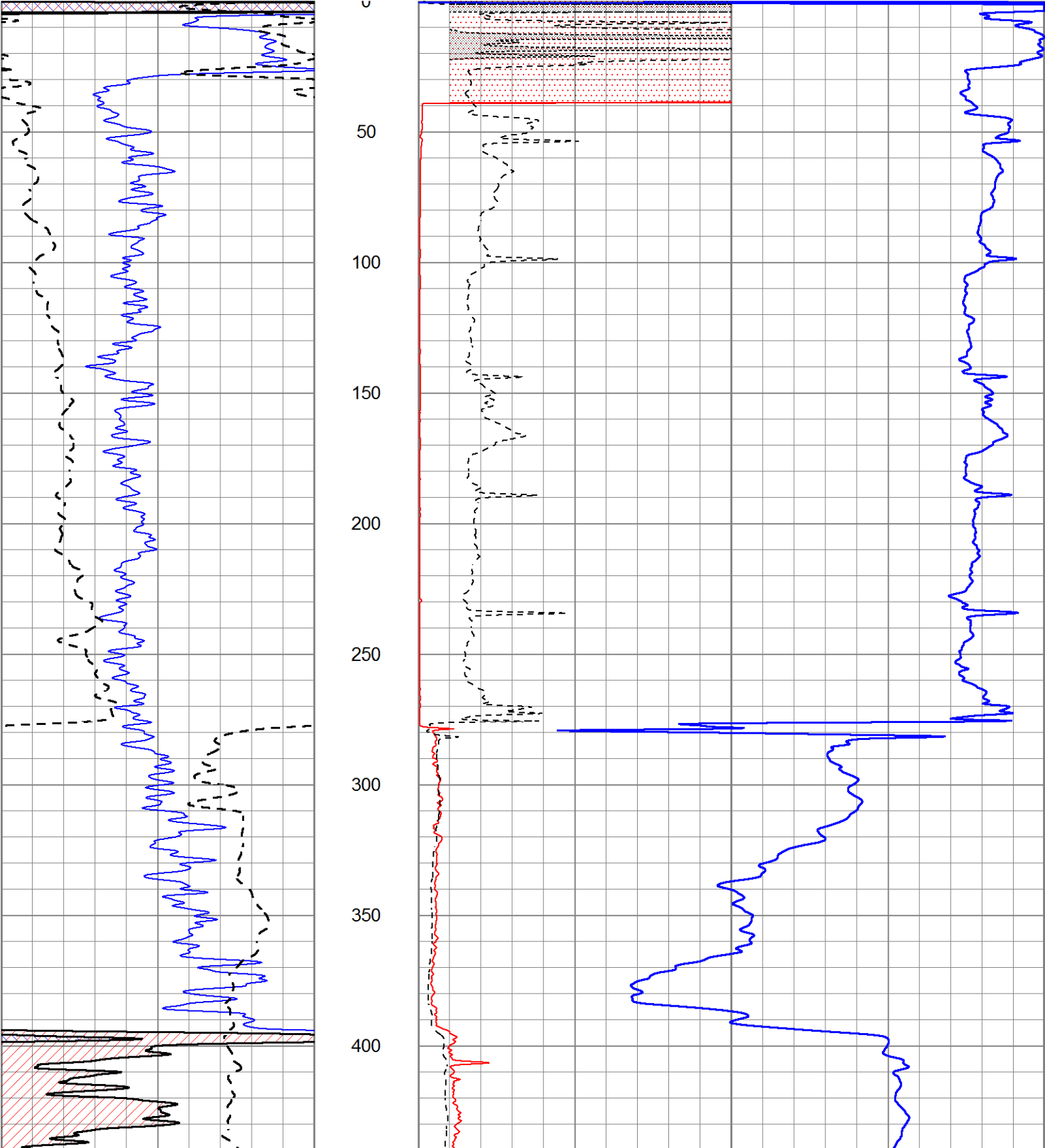
FROM SELDEN, KANSAS GO 1/2 MILE SOUTH ON SOUTH KENTUCKY AVE., WEST INTO



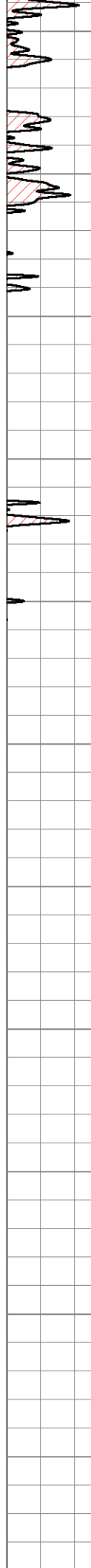
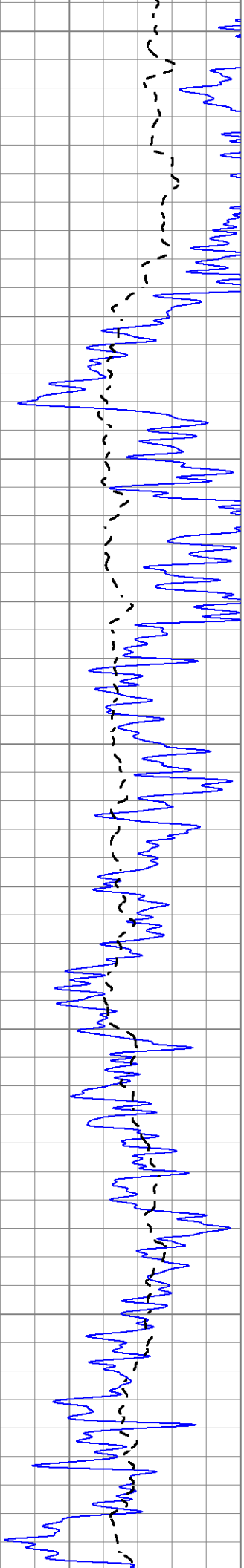
MAIN SECTION

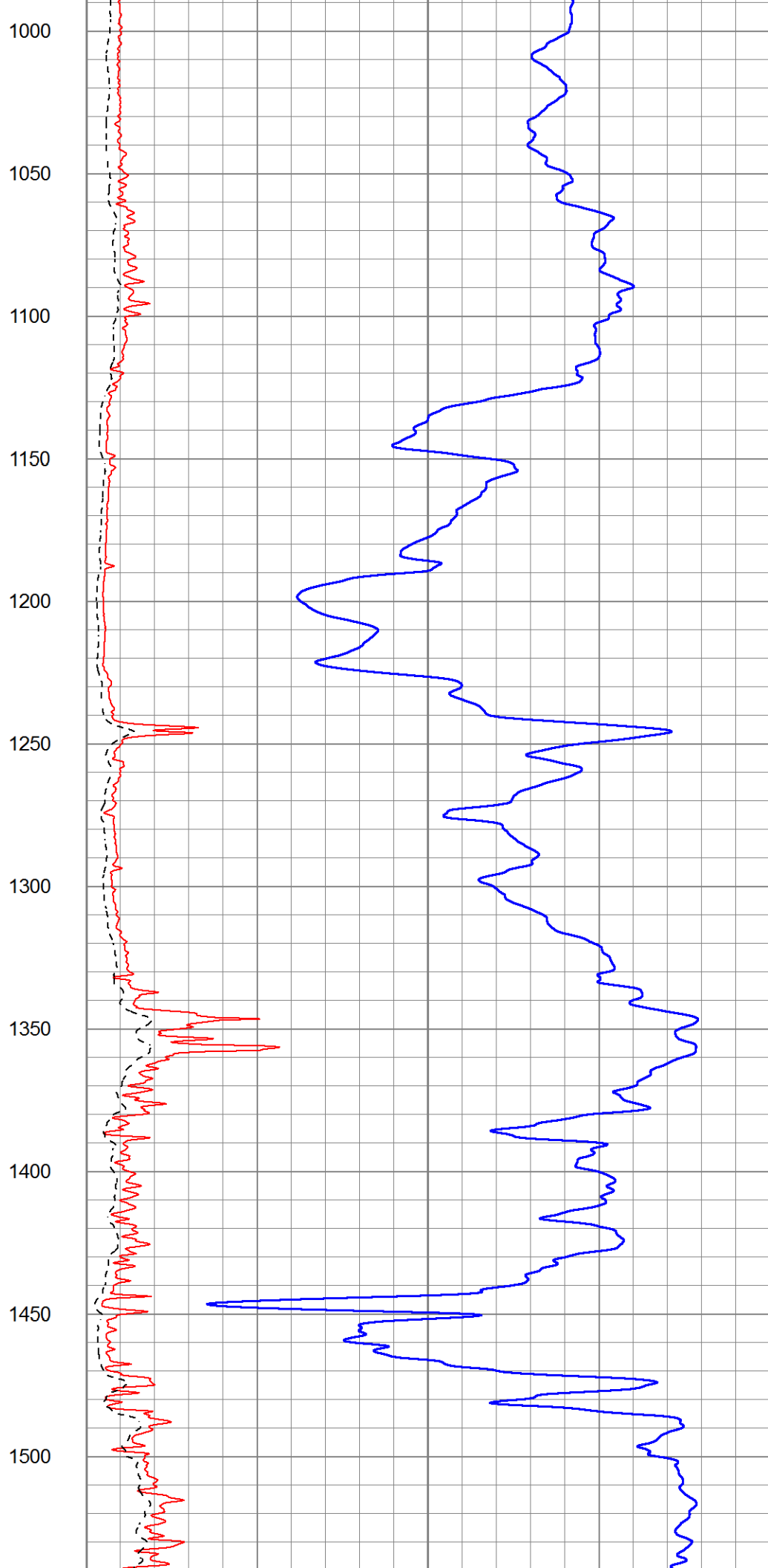
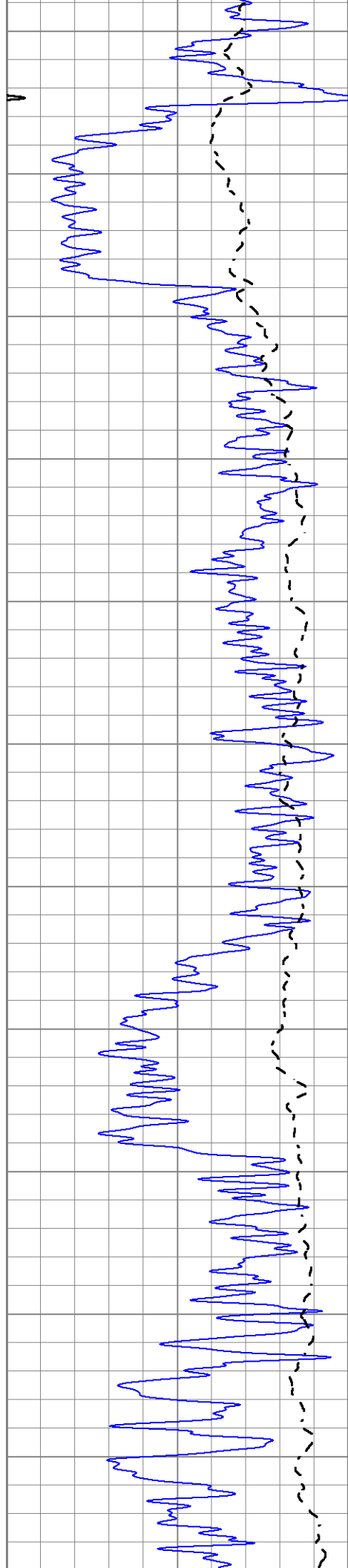
Database File	9058ddn.db
Dataset Pathname	pass3.8
Presentation Format	_dil2
Dataset Creation	Mon Oct 14 21:52:33 2024
Charted by	Depth in Feet scaled 1:600

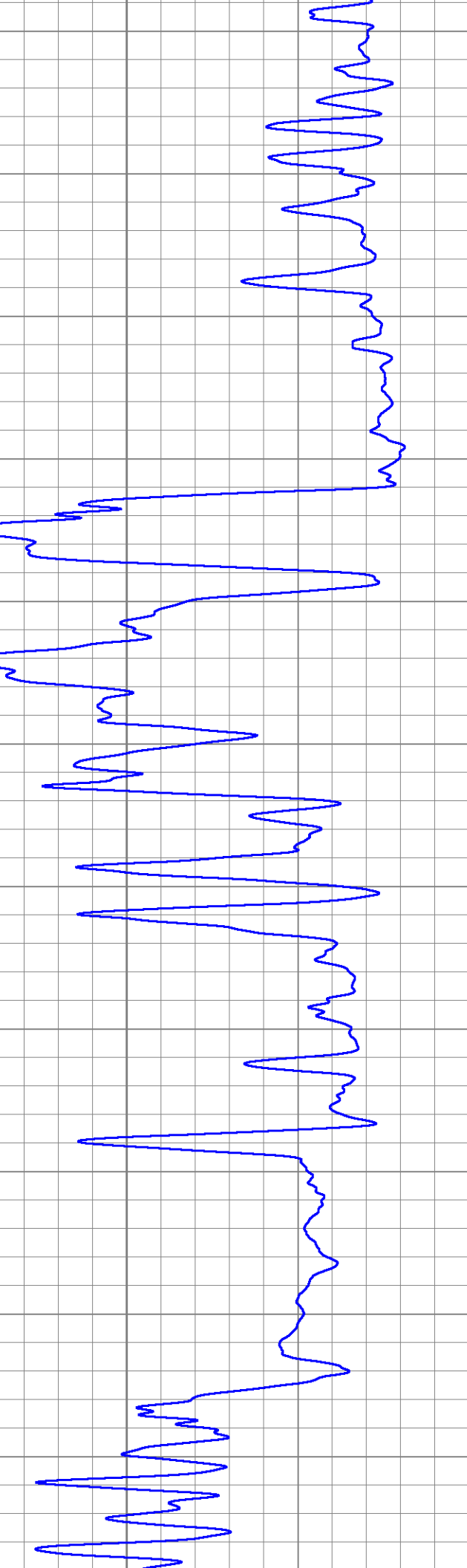
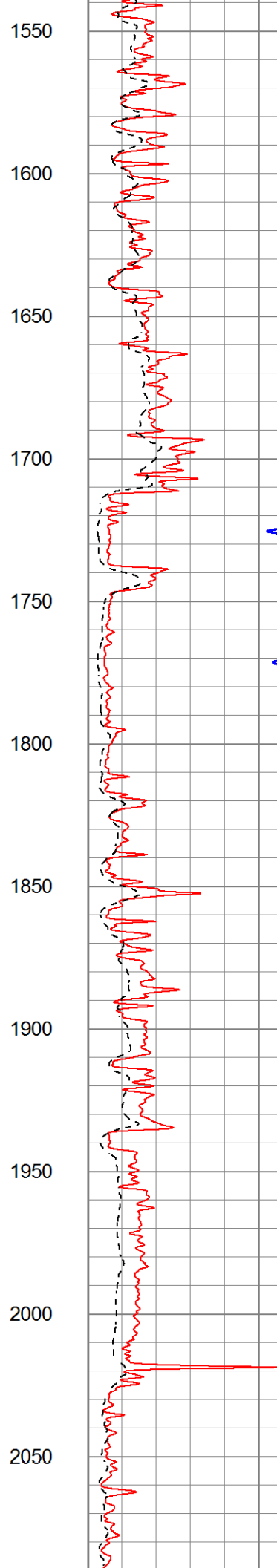
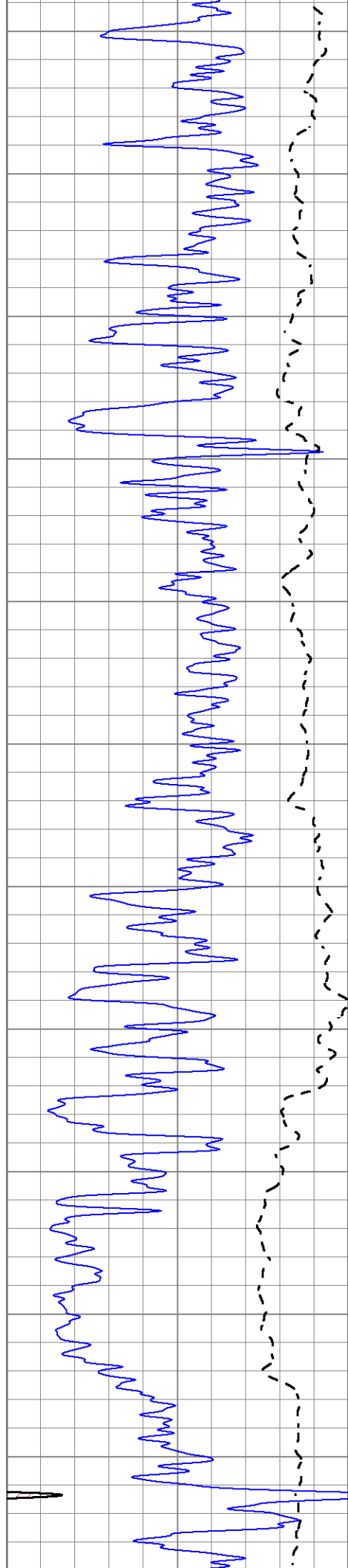
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500

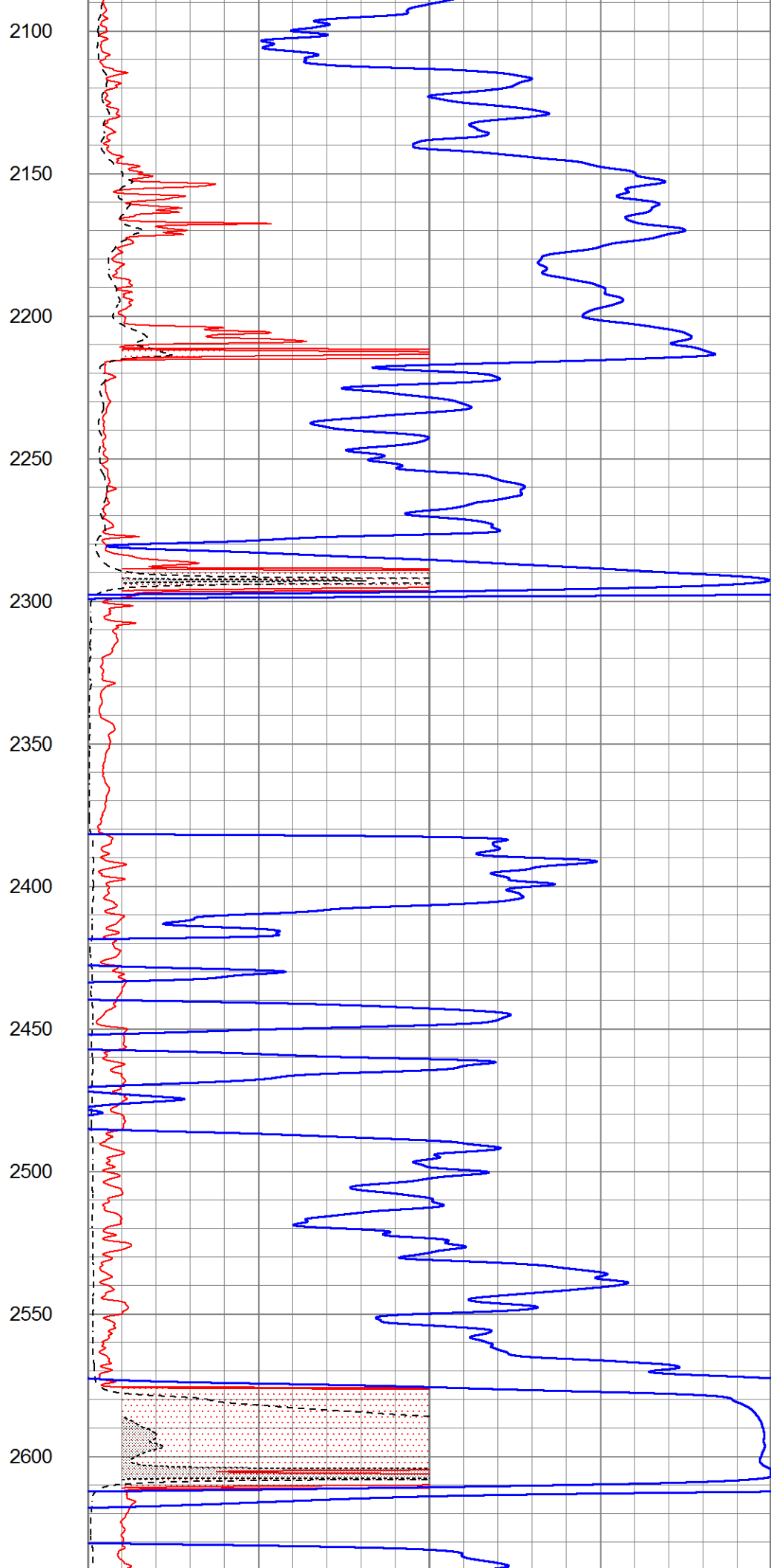
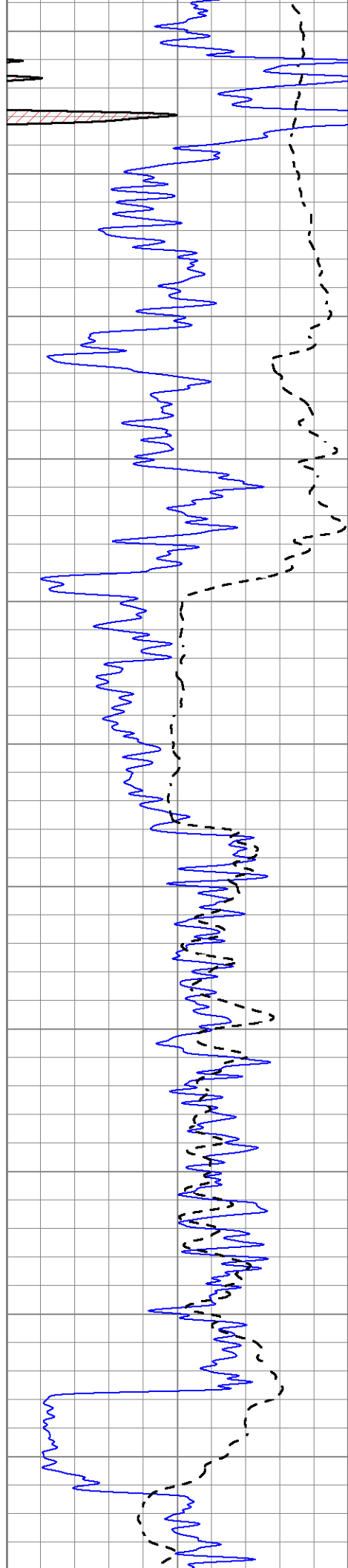


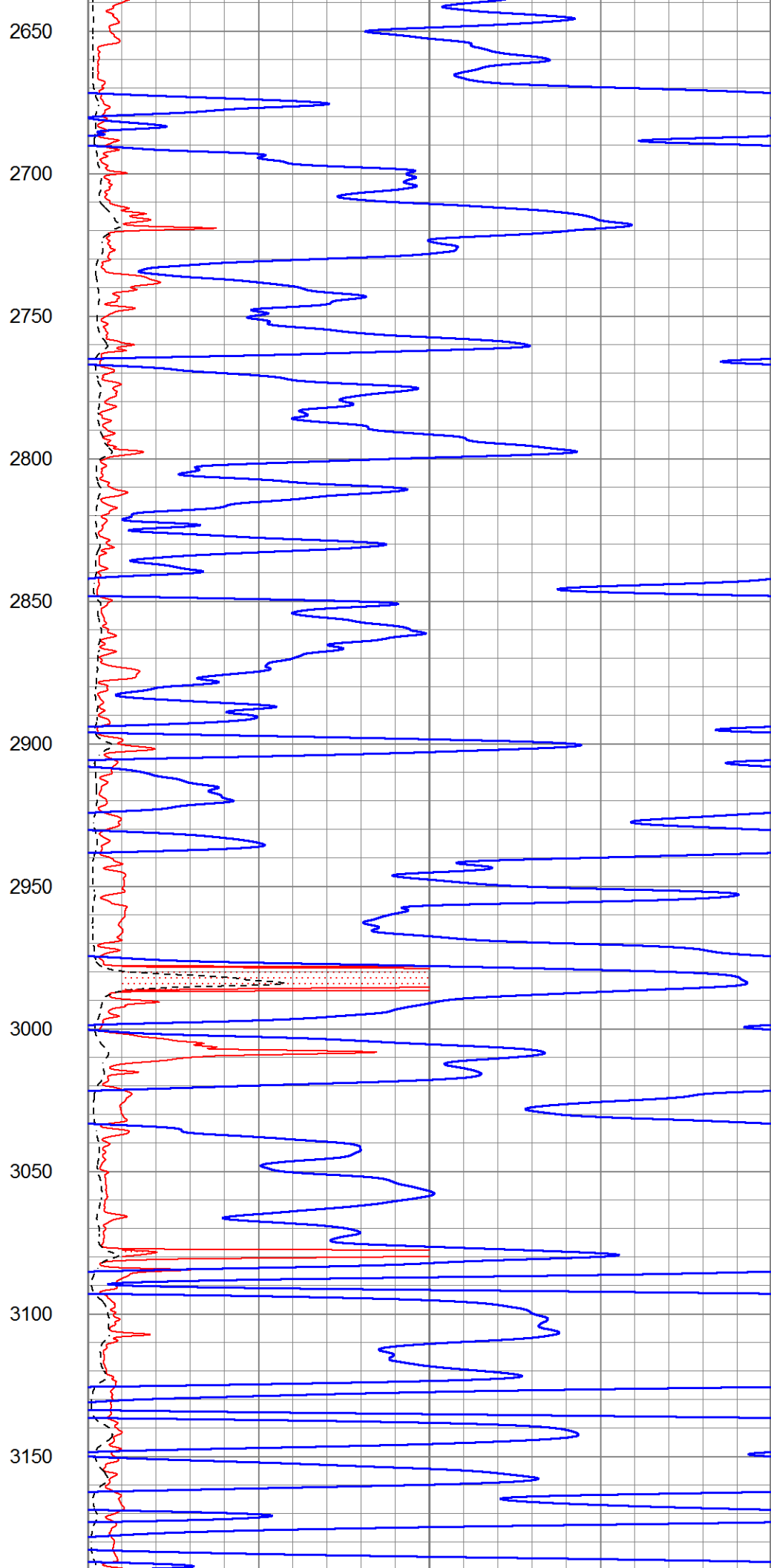
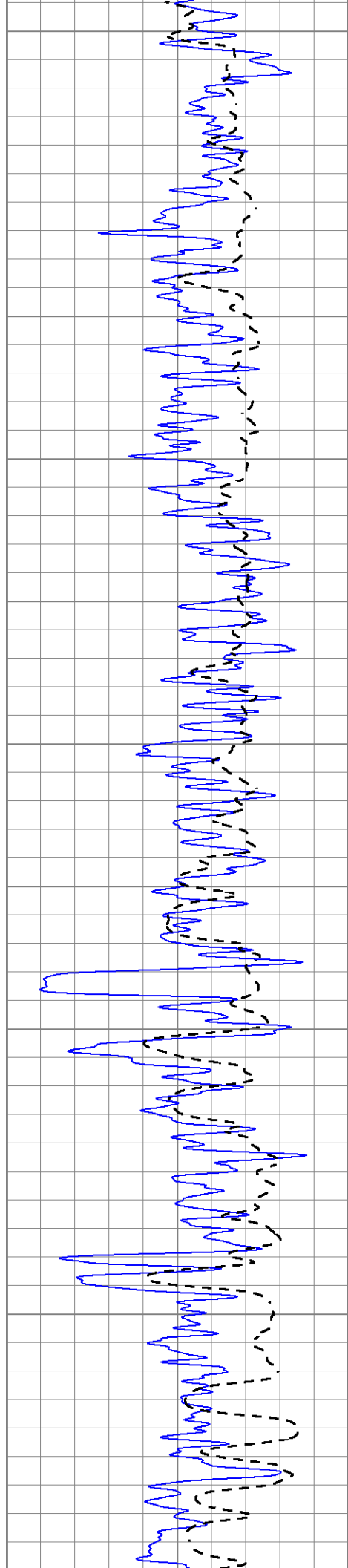
450
500
550
600
650
700
750
800
850
900
950

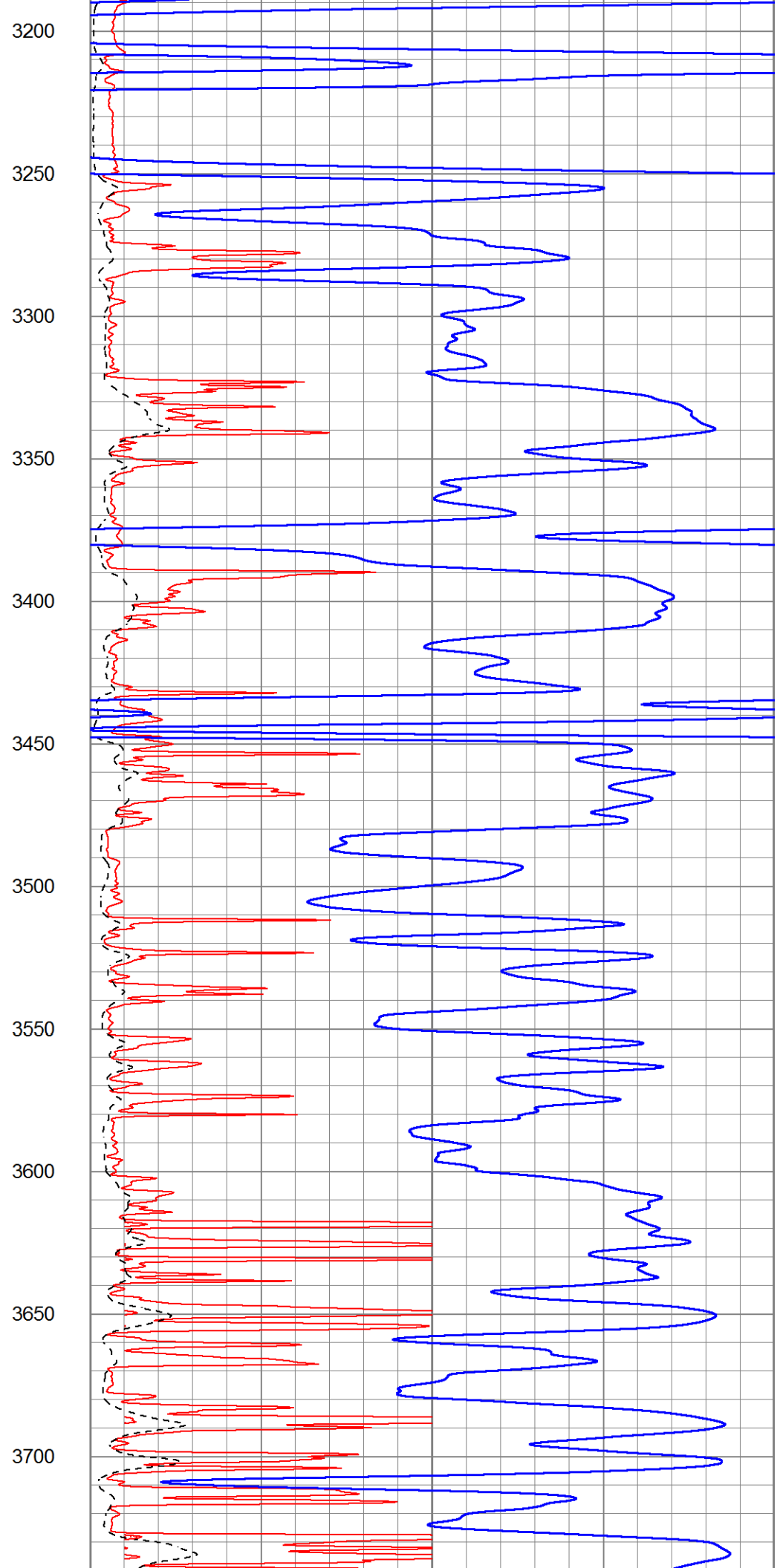
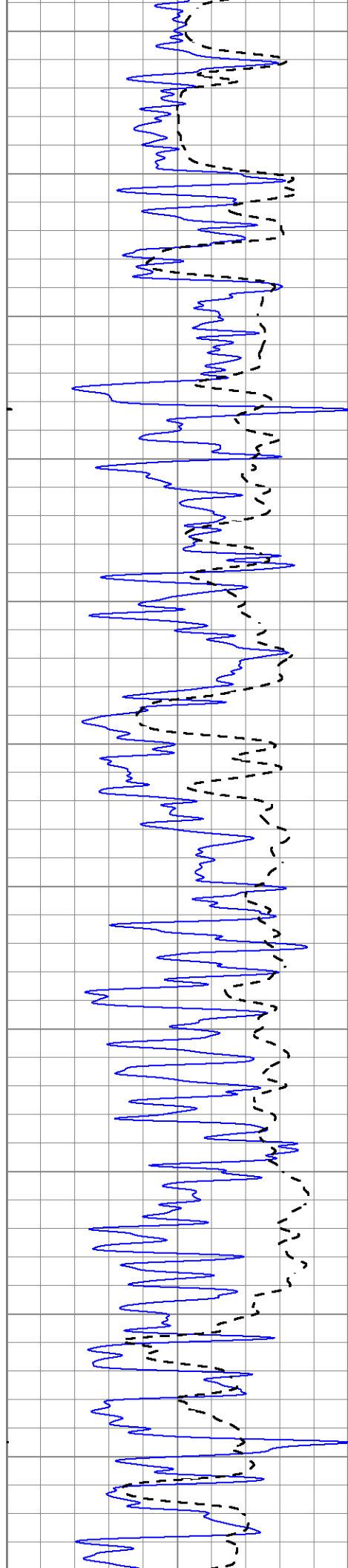


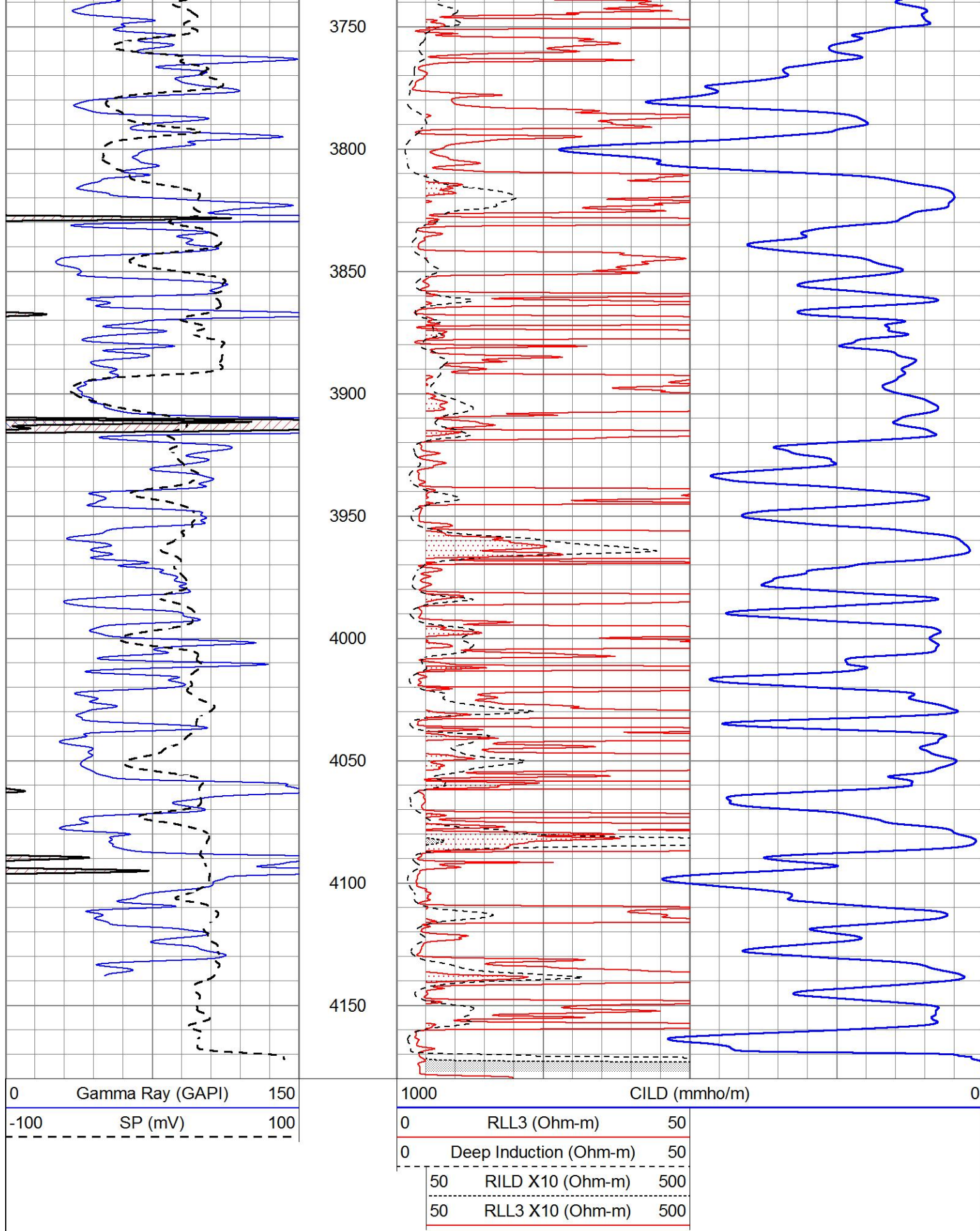










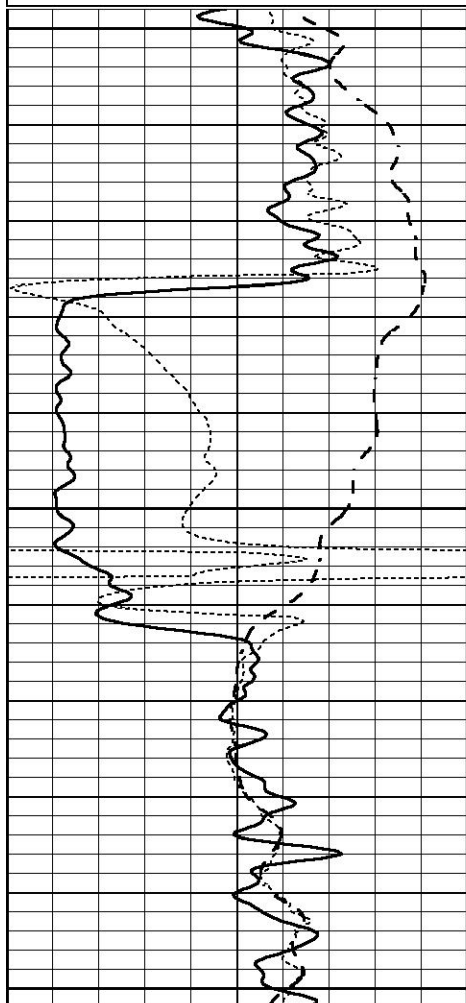


ANHYDRITE

Database File 9058ddn.db
Dataset Pathname pass3A
Presentation Format _dil
Dataset Creation Mon Oct 14 21:42:15 2024
Charted by Depth in Feet scaled 1:240

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

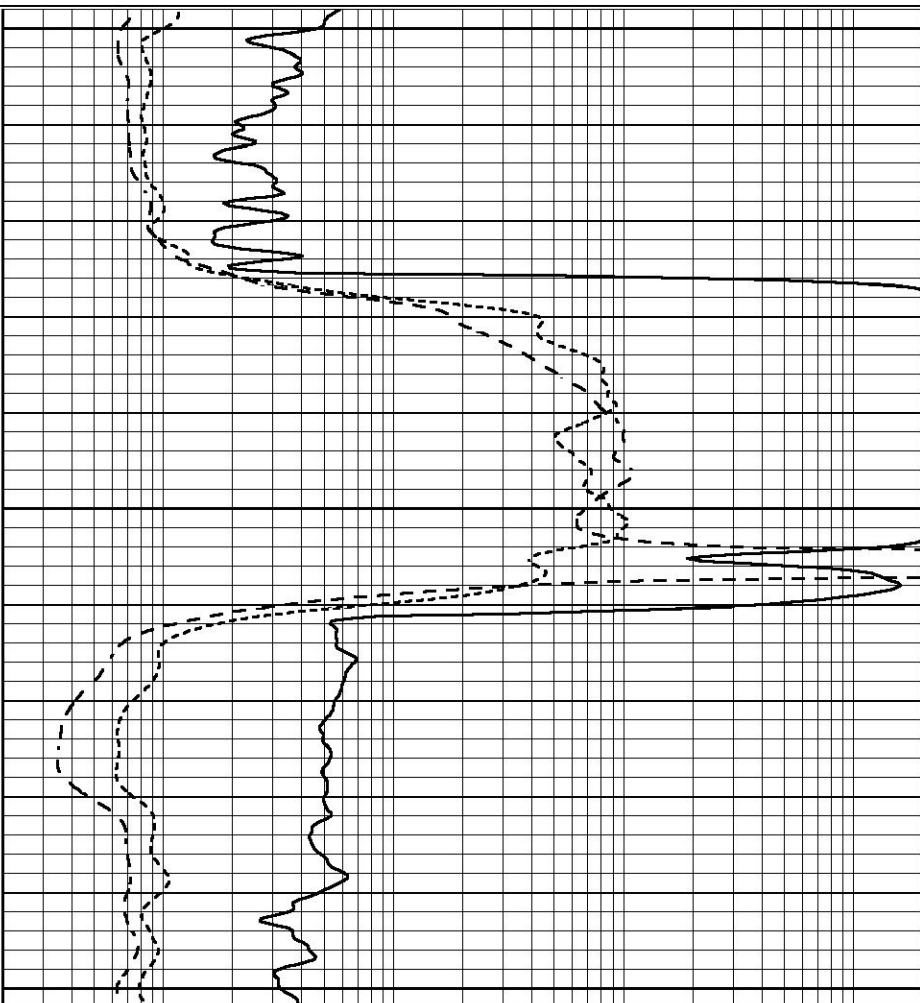
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



2550

2600

2650



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

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

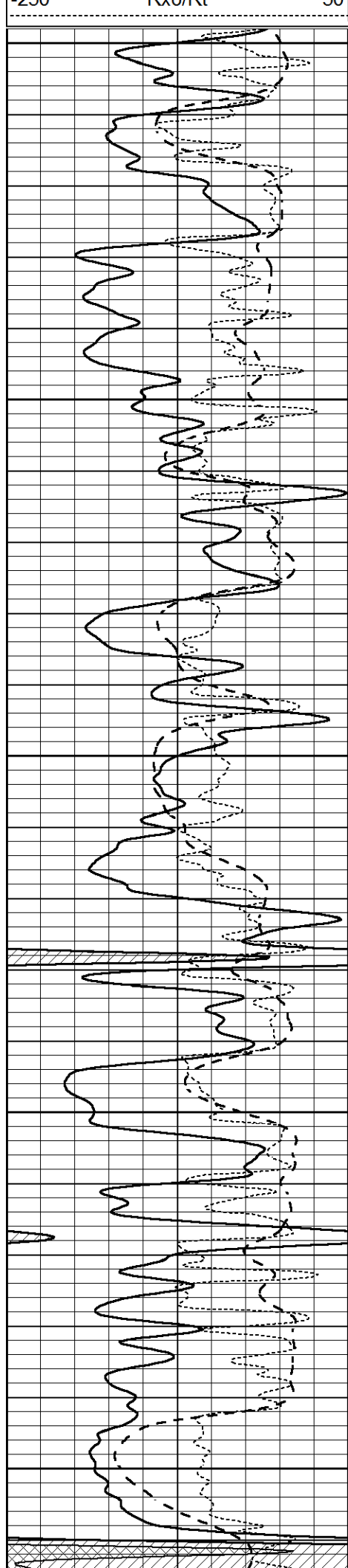


MAIN SECTION

Database File 9058ddn.db
Dataset Pathname pass3D
Presentation Format _dil
Dataset Creation Mon Oct 14 21:14:48 2024
Charted by Depth in Feet scaled 1:240

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

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



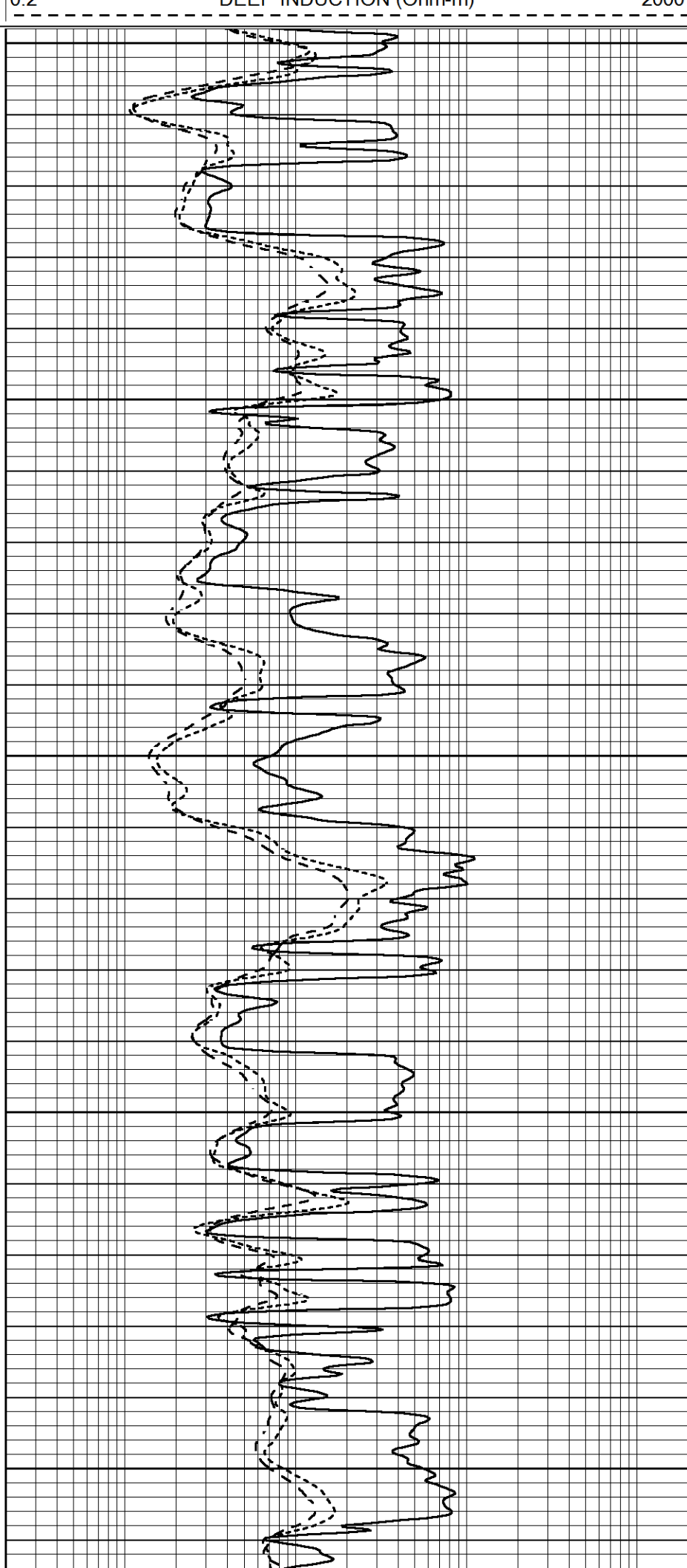
3700

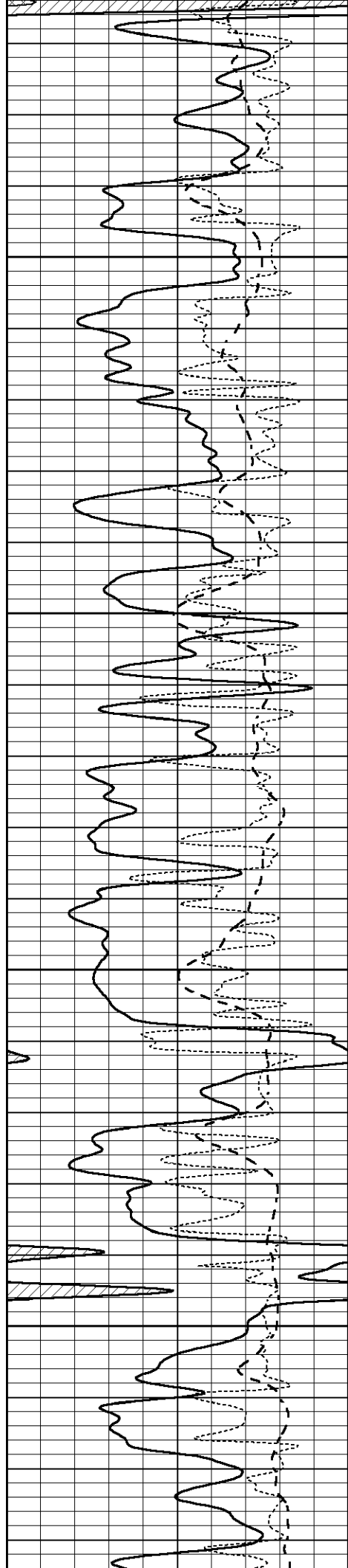
3750

3800

3850

3900



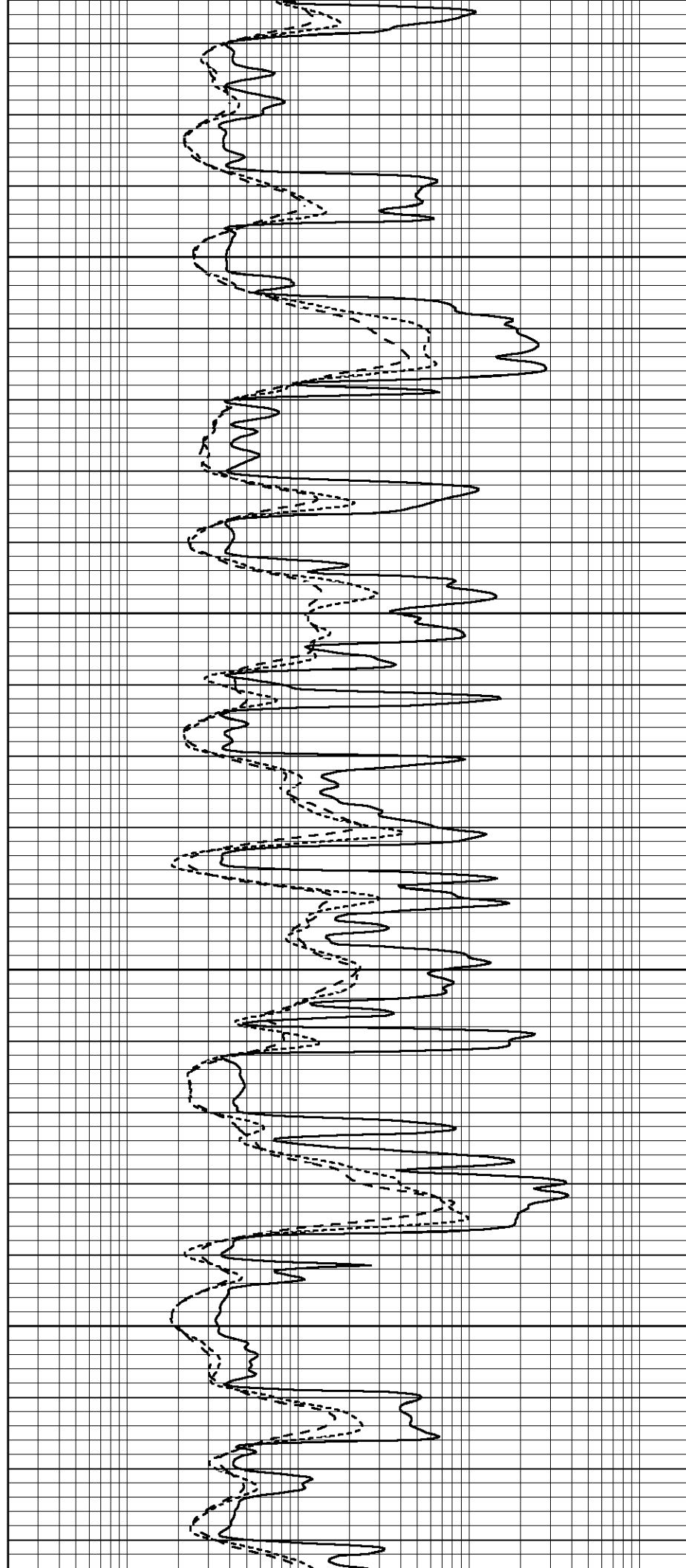


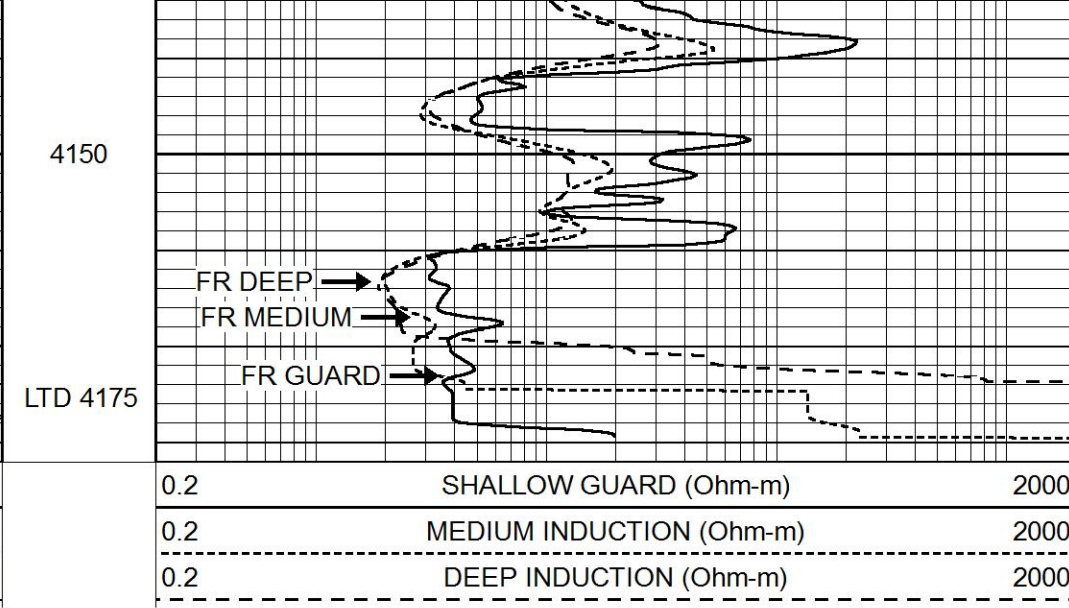
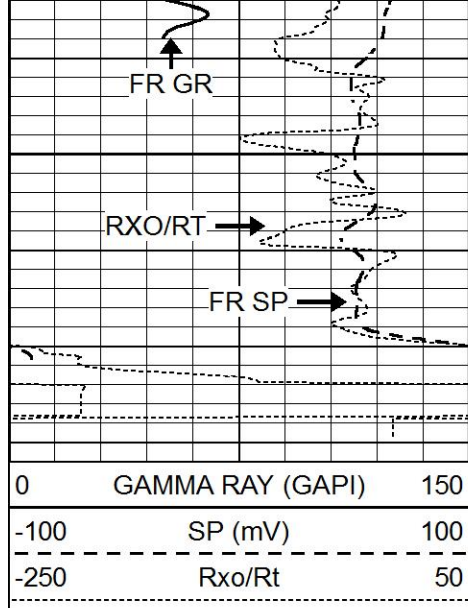
3950

4000

4050

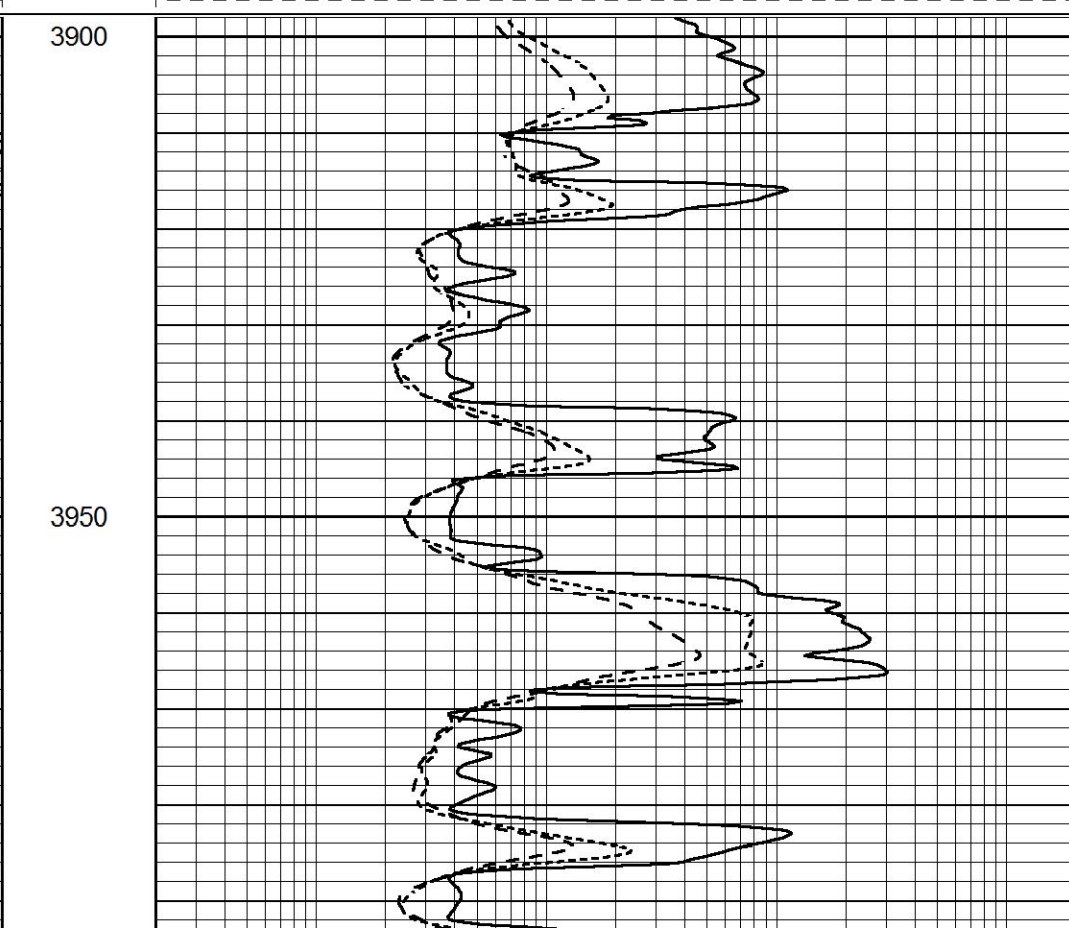
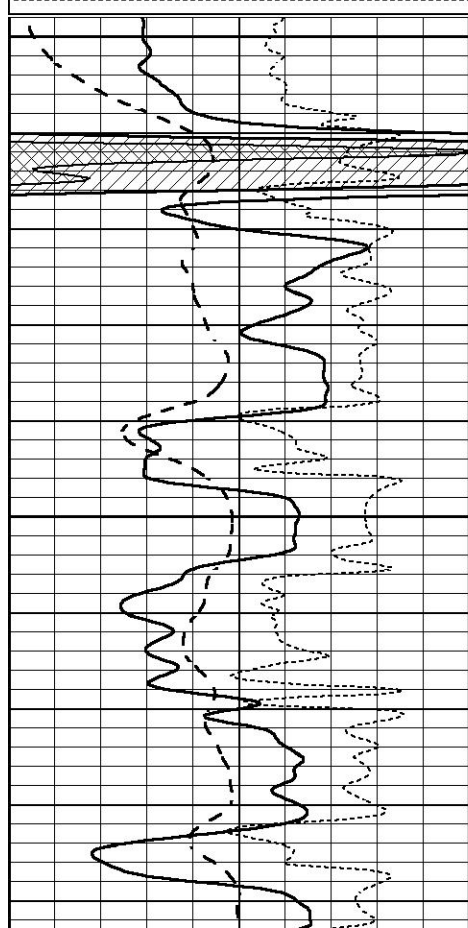
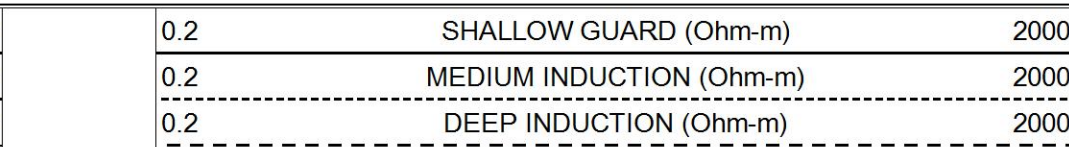
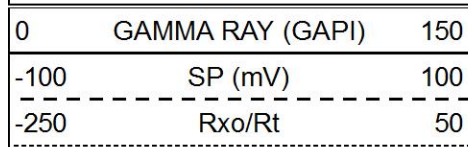
4100





REPEAT SECTION

Database File 9058ddn.db
 Dataset Pathname pass2.5
 Presentation Format _dil
 Dataset Creation Mon Oct 14 20:52:18 2024
 Charted by Depth in Feet scaled 1:240



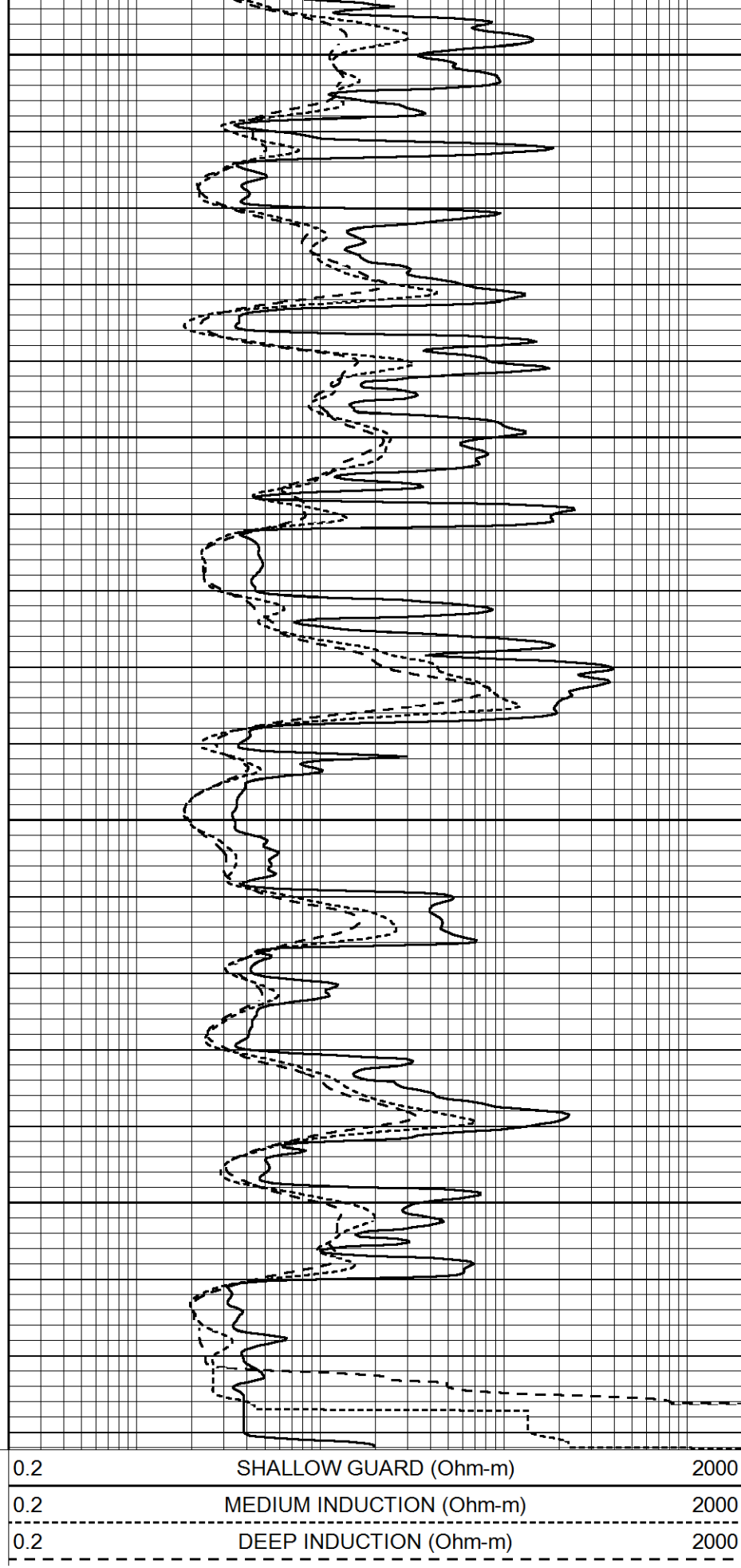


4000

4050

4100

4150



Calibration Report

Dual Induction Calibration Report

Serial-Model: FW1410-56-Probe

Surface Cal Performed: Tue Apr 30 11:10:17 2024

Downhole Cal Performed: Tue Jul 25 12:15:37 2017

After Survey Verification Performed: Tue Jul 25 12:15:38 2017

Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.765	V	1.000	400.000	mmho/m	520.000	18.000
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	540.000	197.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.005	0.624	V	0.000	400.000	mmho/m	645.611	-3.034
Medium	0.012	0.721	V	0.000	464.000	mmho/m	653.591	-7.532

Downhole Calibration								
Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.647	301.329	mmho/m	-0.780	336.378	mmho/m	1.117	-0.058
Medium	38.256	411.013	mmho/m	39.046	441.706	mmho/m	1.080	-2.280
LL3		7.471	V		2500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.085	V		4000.000	mmho-m		

After Survey Verification								
Readings				Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.647	301.329	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	38.256	411.013	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Litho Density Calibration Report
Serial: 003 Model: PRB

Master Calibration					Performed Mon May 22 11:42:40 2023			
	Background	Magnesium	Aluminum	Aluminum+Fe				
Window 1	1512.3	7465.7	2749.0	2519.6				cps
Window 2	1398.8	6705.7	2507.3	2313.8				cps
Window 3	1289.2	5259.5	2124.1	2009.6				cps
Window 4	351.1	351.6	351.8	353.2				cps
Long Space	0.0	5306.9	1108.5	915.0				cps
Short Space	3.3	2239.9	1441.2	1212.0				cps
Rho		1.7100	2.5900	0.0000				g/cc
Pe		2.0000	2.7500	5.7900				
Rib Angle	: 44.3	Rib Slope	: 0.975	Density/Spine Ratio			: 0.541	
Spine Angle	: 74.3	Spine Slope	: 3.551	Spine Intercept			: -18.8	

Before Survey Verification					Performed Wed Dec 31 18:00:00 1969			
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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:	080621PMC	
		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:	46001	
Tool Model:	Probe1	
Performed:	Thu Apr 20 09:55:57 2023	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4300	GAPI/cps