



DUAL INDUCTION LOG

Company GLOBE OPERATING, INC.

Well WILLIAMS #5

Field SMALLWOOD

County STAFFORD State KANSAS

Location: API # : 15-185-24072-0000

1640' FNL & 960' FEL

Other Services
CDL/CNL
MEL

SEC 11 TWP 22S RGE 14W

Elevation

Permanent Datum GROUND LEVEL Elevation 1926
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING

K.B. 1934
D.F. 1932
G.L. 1926

Date 10/11/20

Run Number ONE

Depth Driller 3835

Depth Logger 3833

Bottom Logged Interval 3831

Top Log Interval 00

Casing Driller 8 5/8" @ 357'

Casing Logger 356

Bit Size 7 7/8

Type Fluid in Hole CHEMICAL MUD CHLORIDES 9300 PPM

Density / Viscosity 9.2/54

pH / Fluid Loss 10.5/10.8

Source of Sample FLOWLINE

Rm @ Meas. Temp .40 @ 80F

Rmf @ Meas. Temp .30 @ 80F

Rmc @ Meas. Temp .48 @ 80F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .27 @ 115F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom ////

Maximum Recorded Temperature 115F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By JASON CAPPELLUCCI

Witnessed By CHAD COUNTS

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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

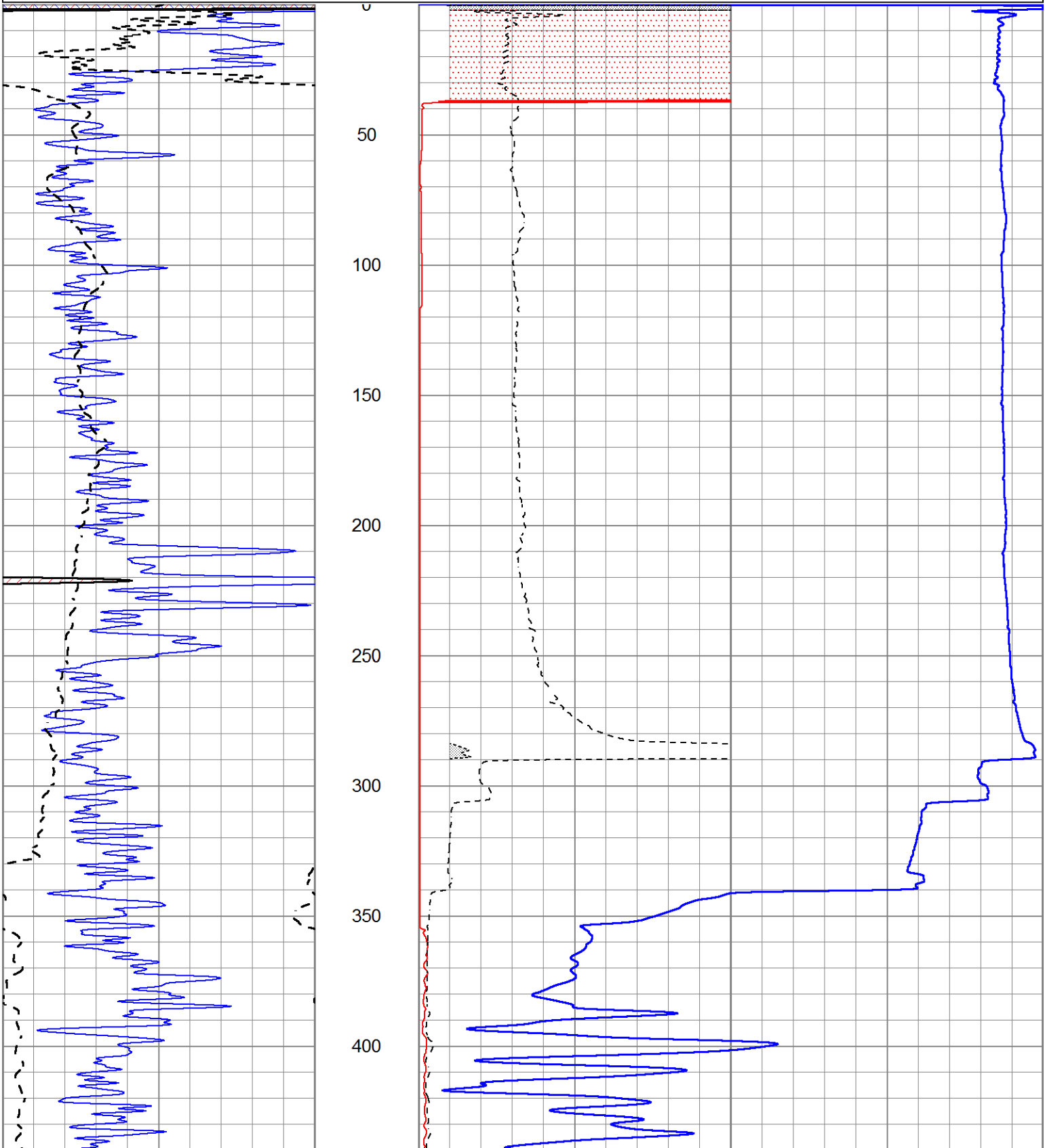
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
RADIUM, KS. - 4 EAST ON HWY 19 - 1/2 SOUTH - WEST INTO

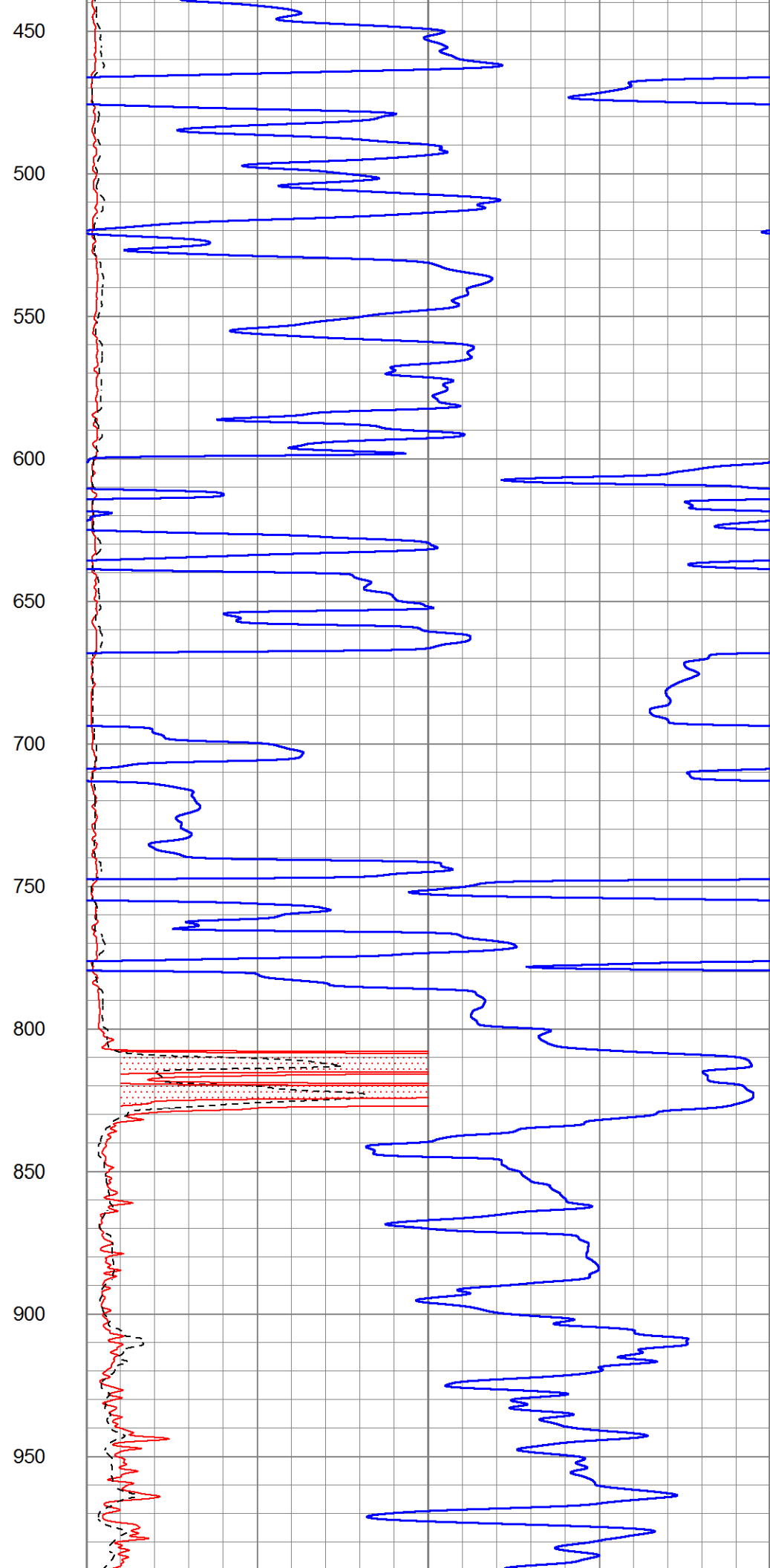
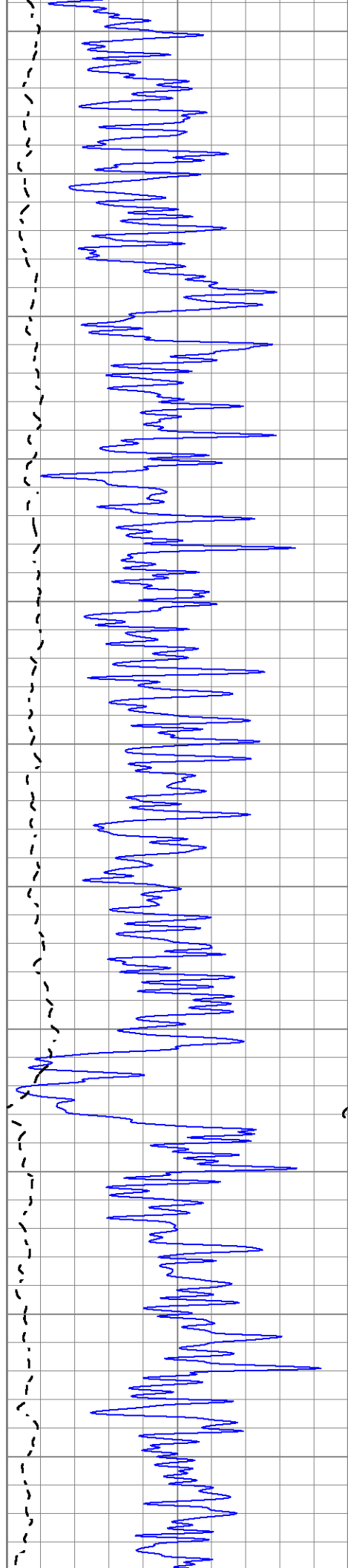


MAIN SECTION

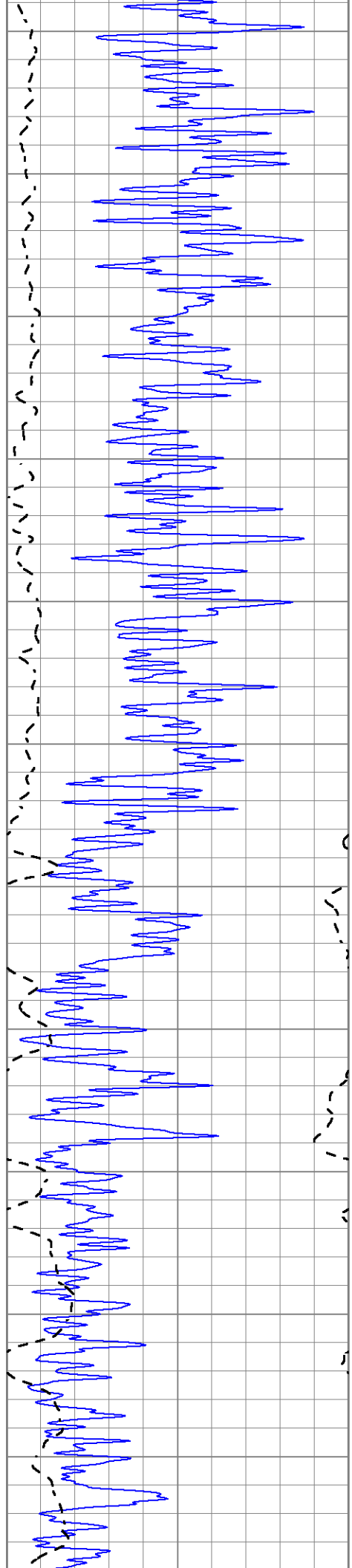
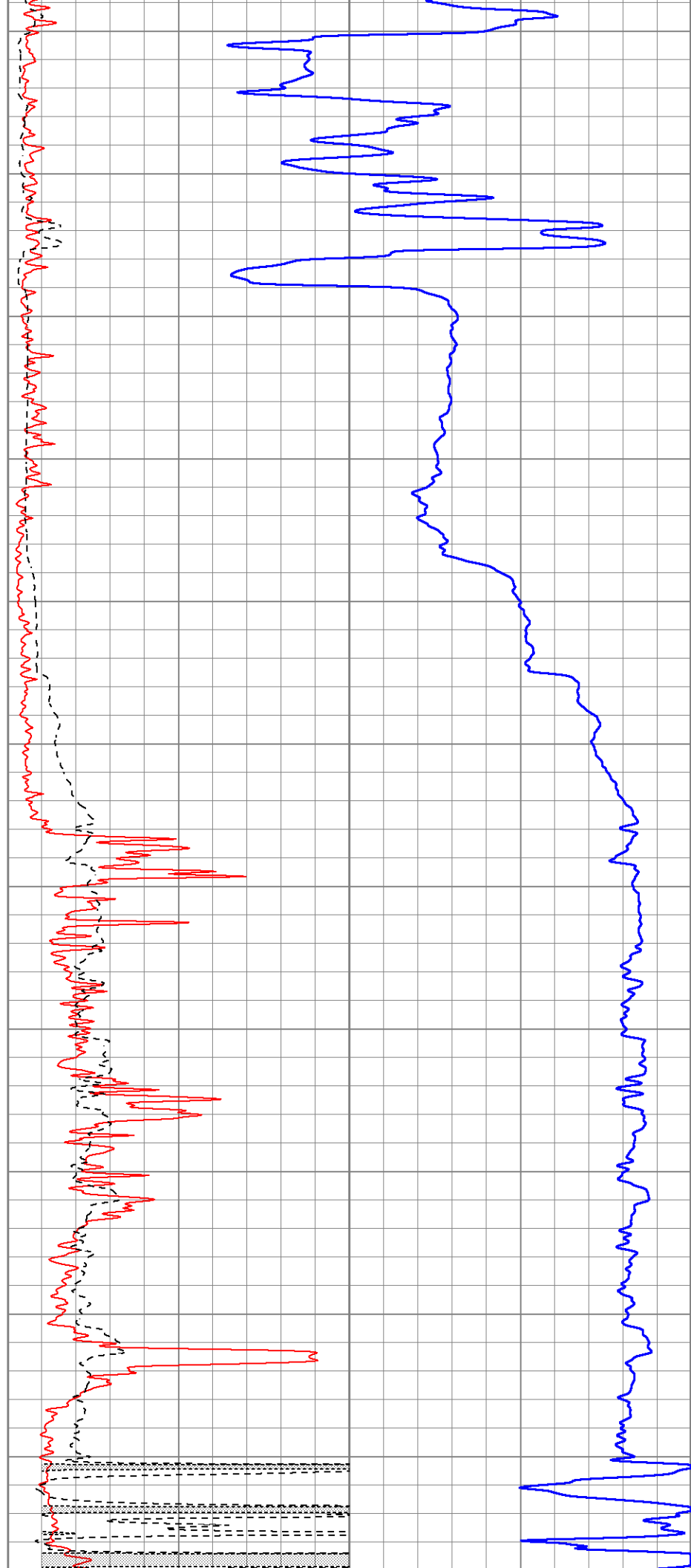
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Dataset Pathname	pass4.3
Presentation Format	_dil2
Dataset Creation	Sun Oct 11 23:03:32 2020
Charted by	Depth in Feet scaled 1:600

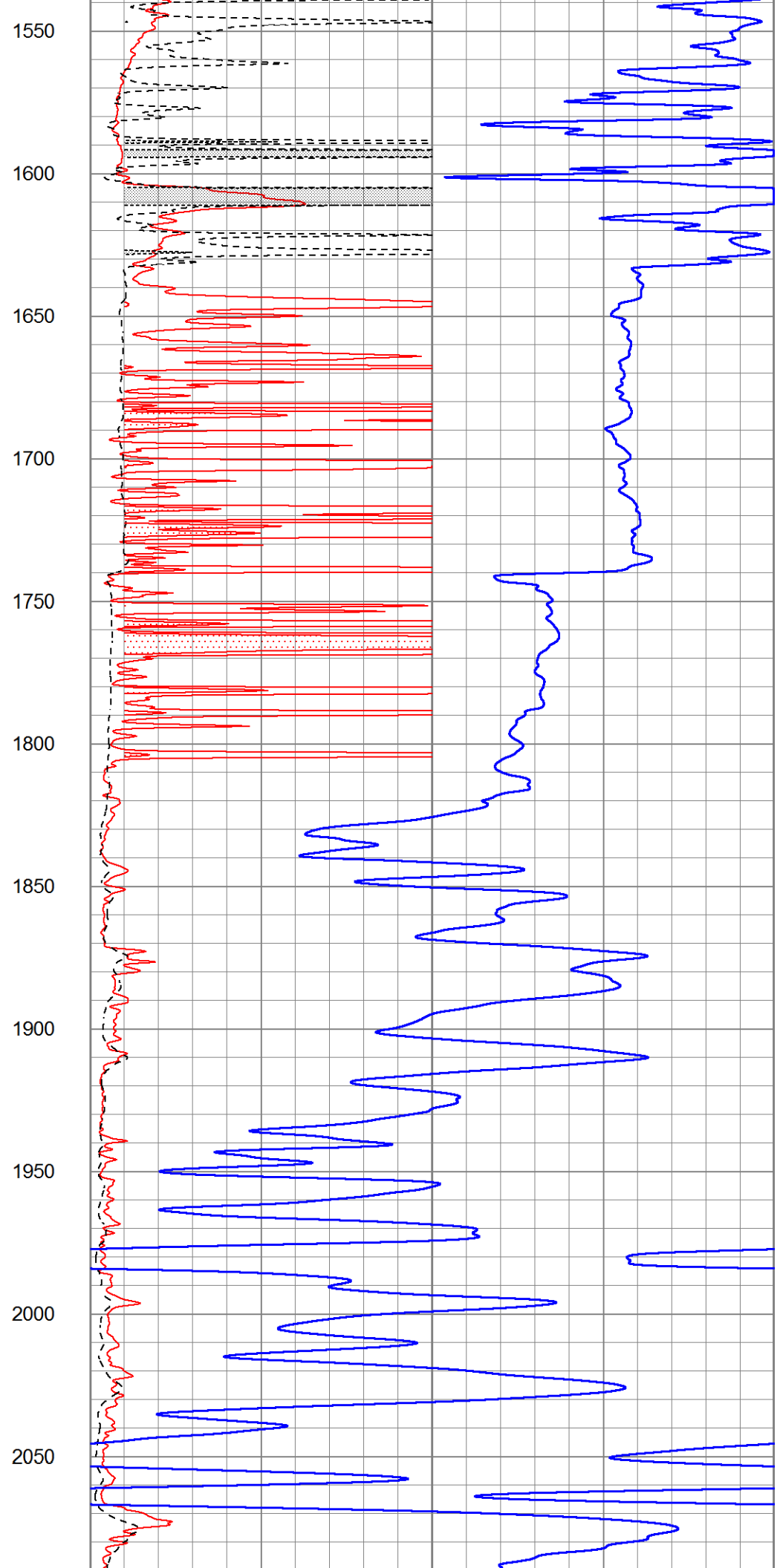
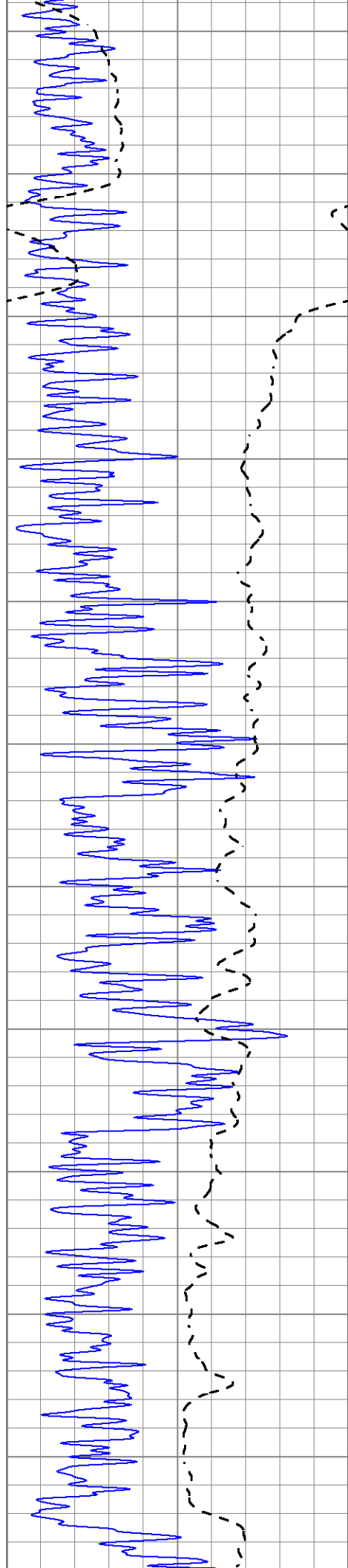
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500

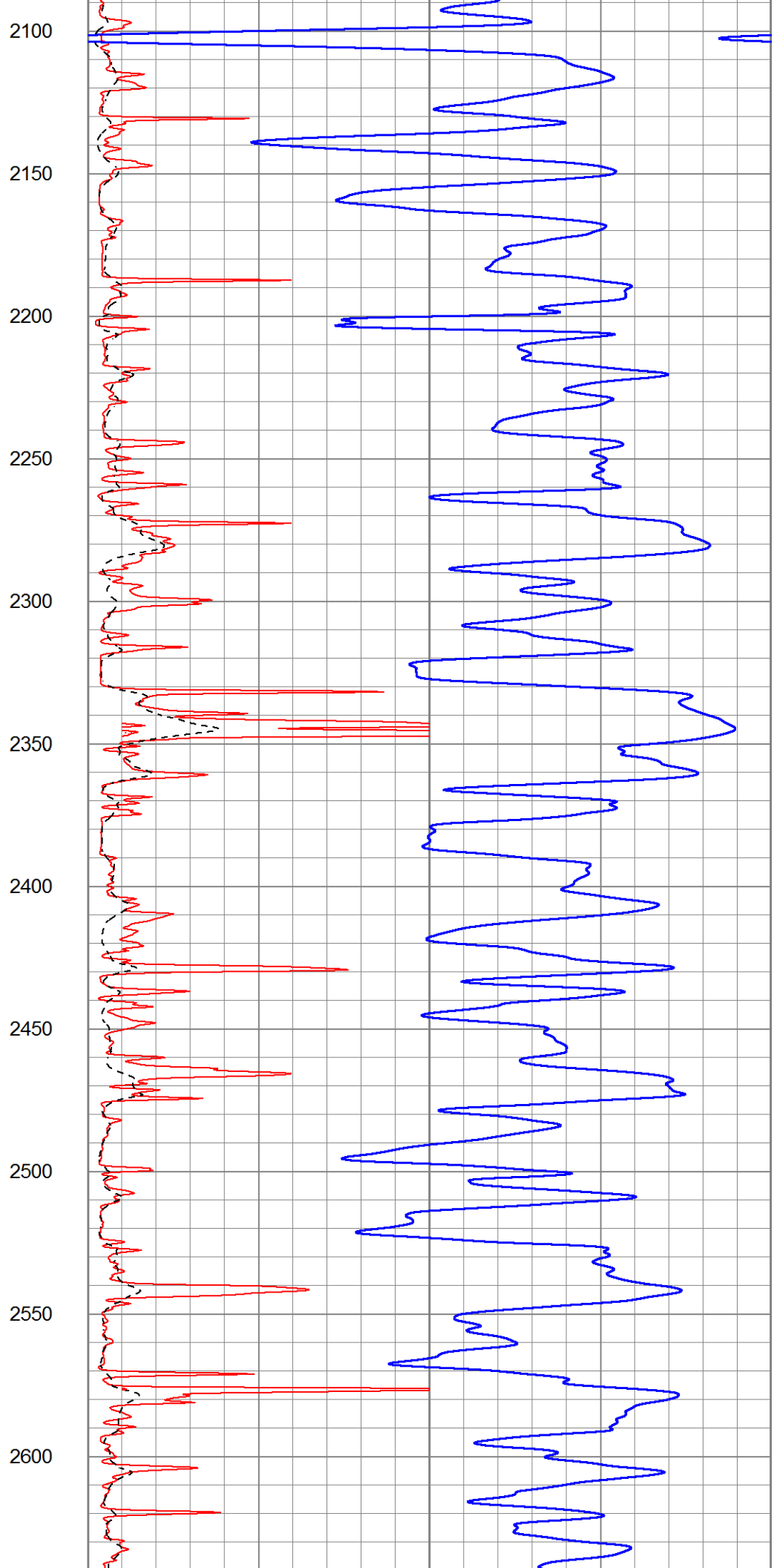
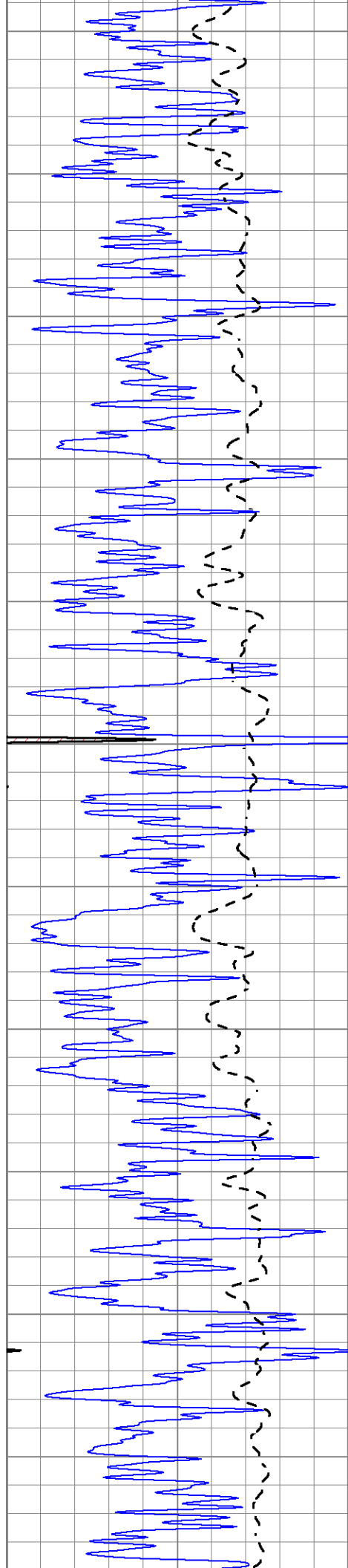


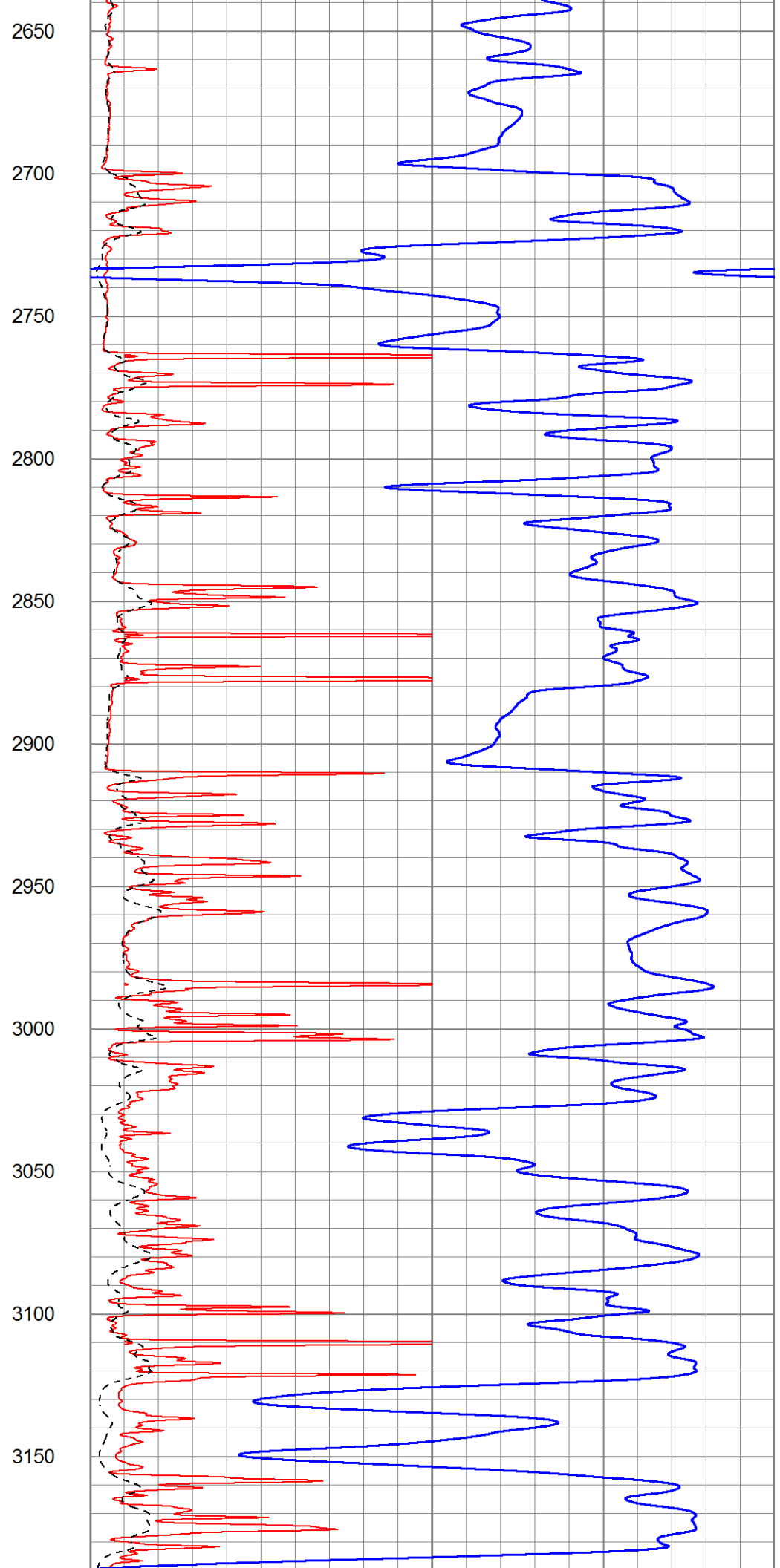
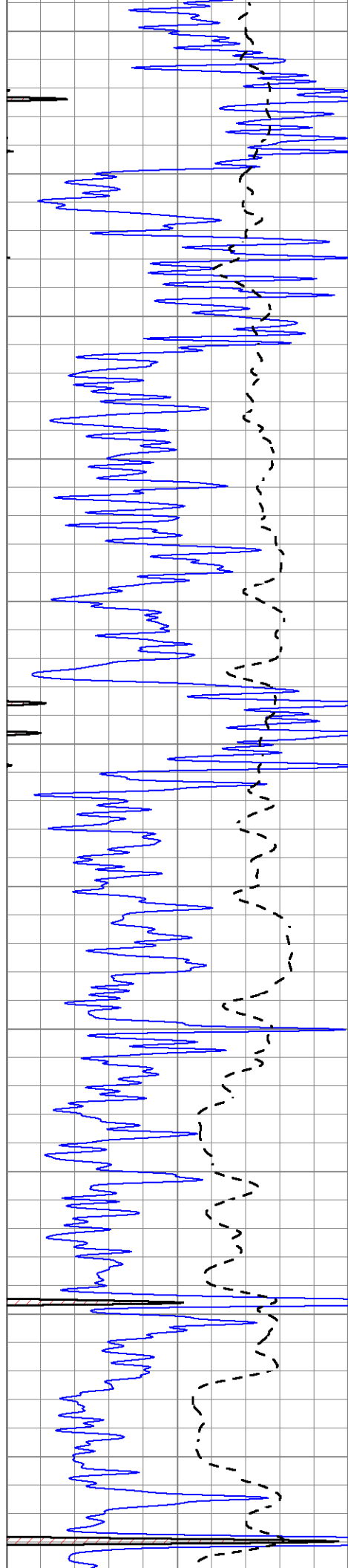


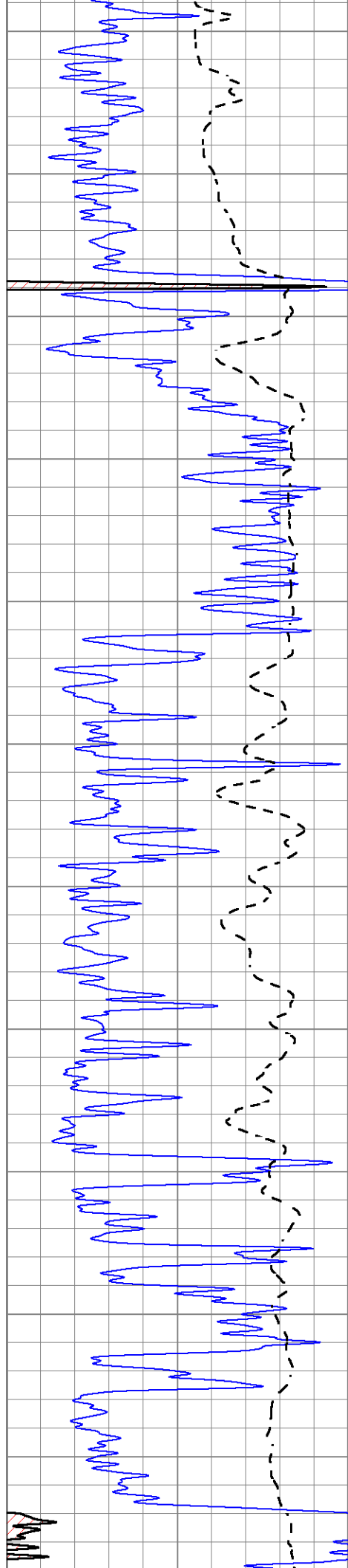
1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500



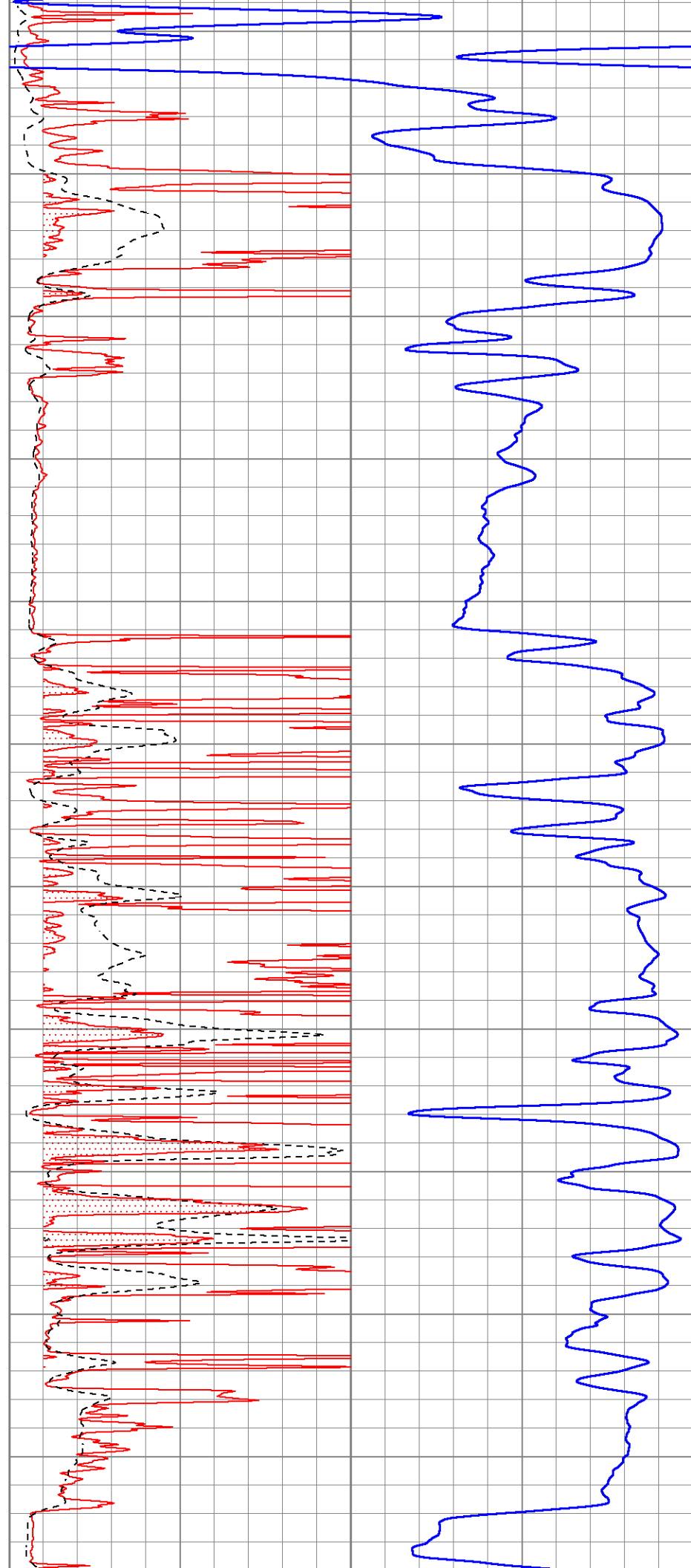


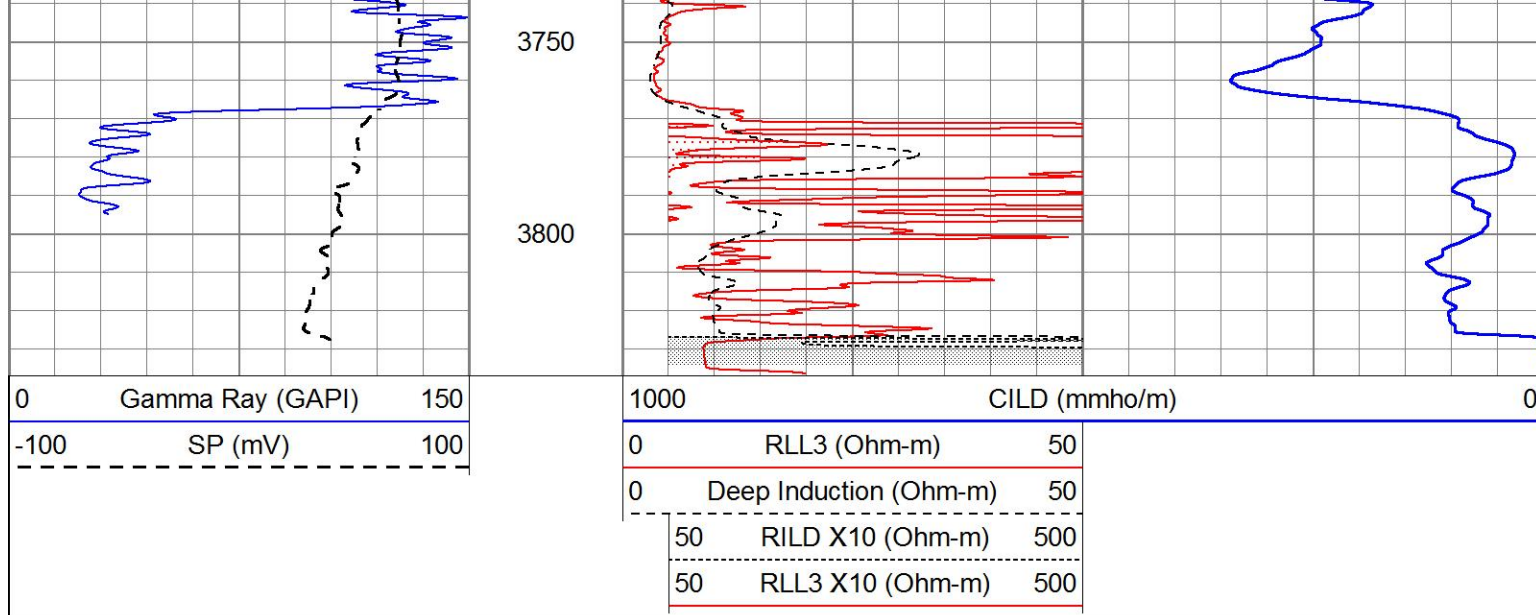






3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700

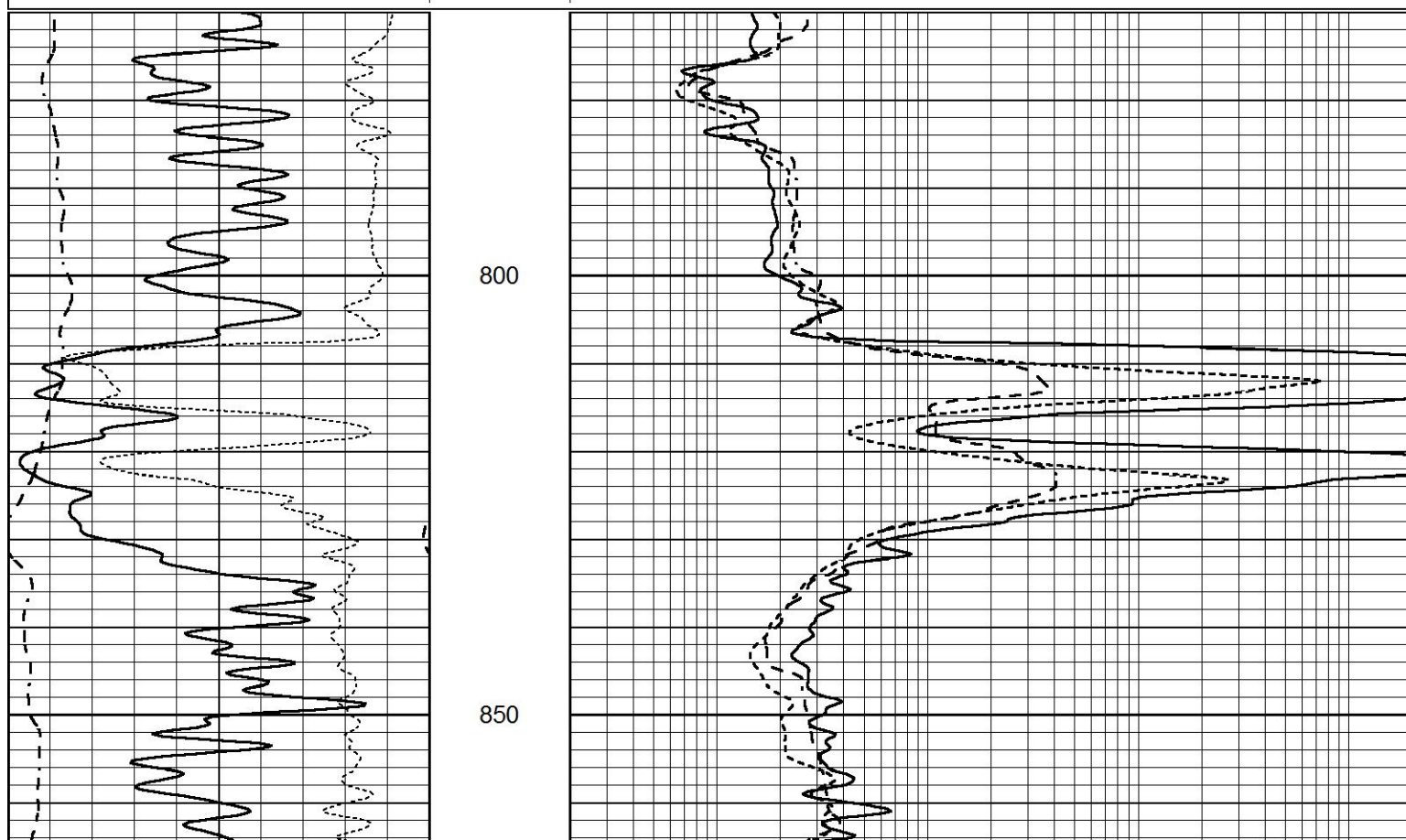




ANHYDRITE

Database File 5230ddn.db
 Dataset Pathname pass4.2
 Presentation Format _dil
 Dataset Creation Sun Oct 11 22:00:28 2020
 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	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000



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

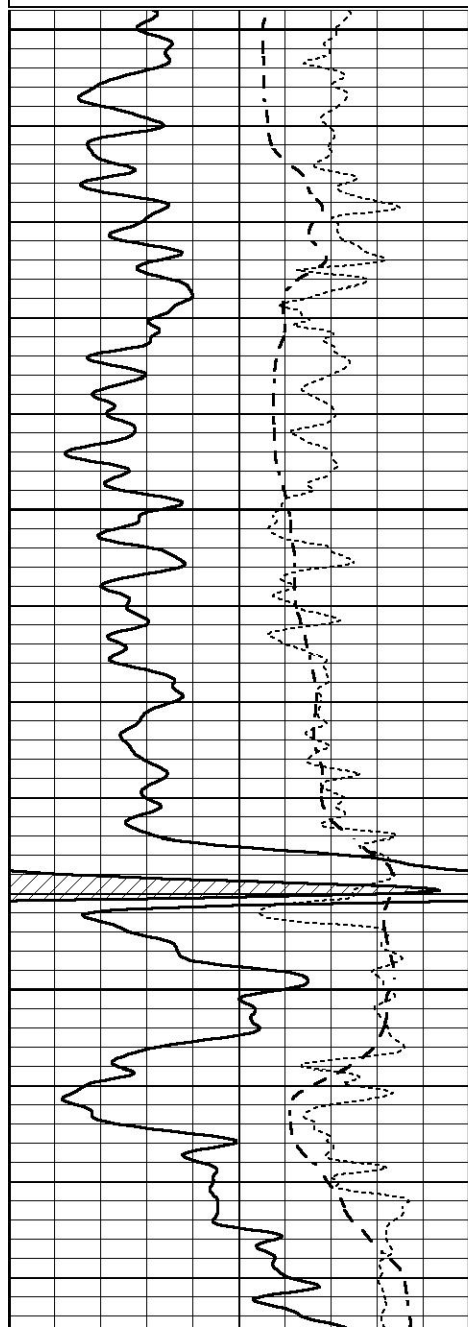


MAIN SECTION

Database File 5230ddn.db
 Dataset Pathname pass4.1
 Presentation Format _dil
 Dataset Creation Sun Oct 11 21:38:38 2020
 Charted by Depth in Feet scaled 1:240

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

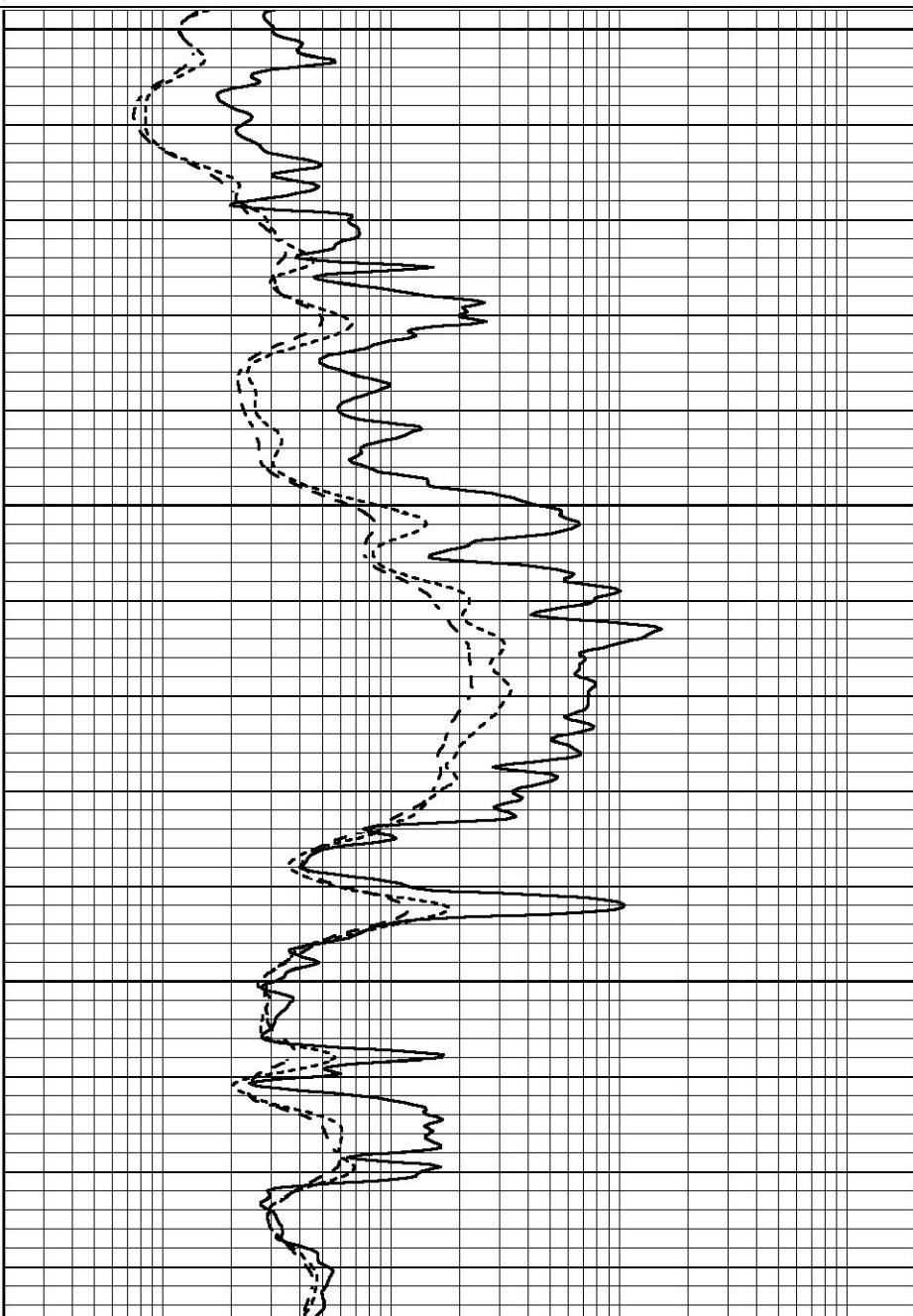
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

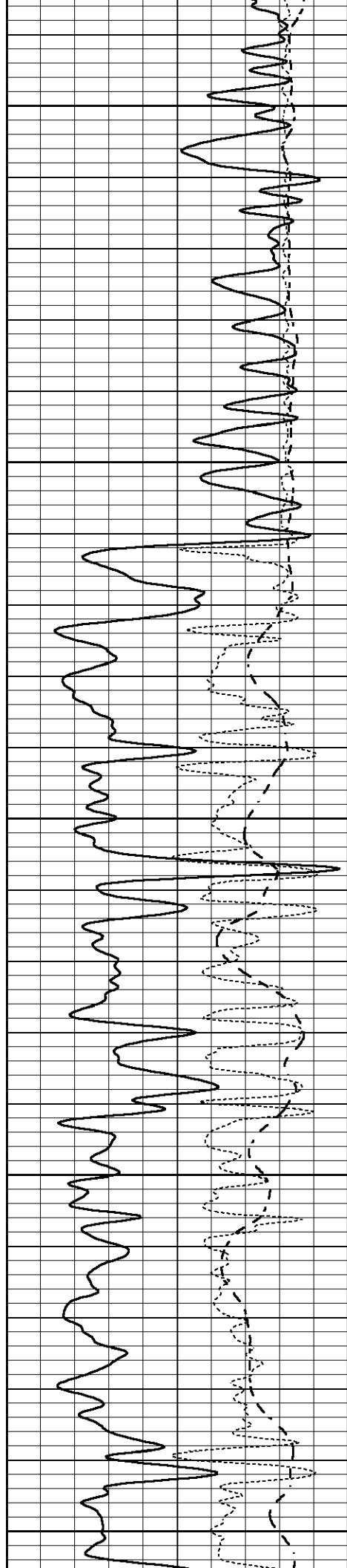


3200

3250

3300





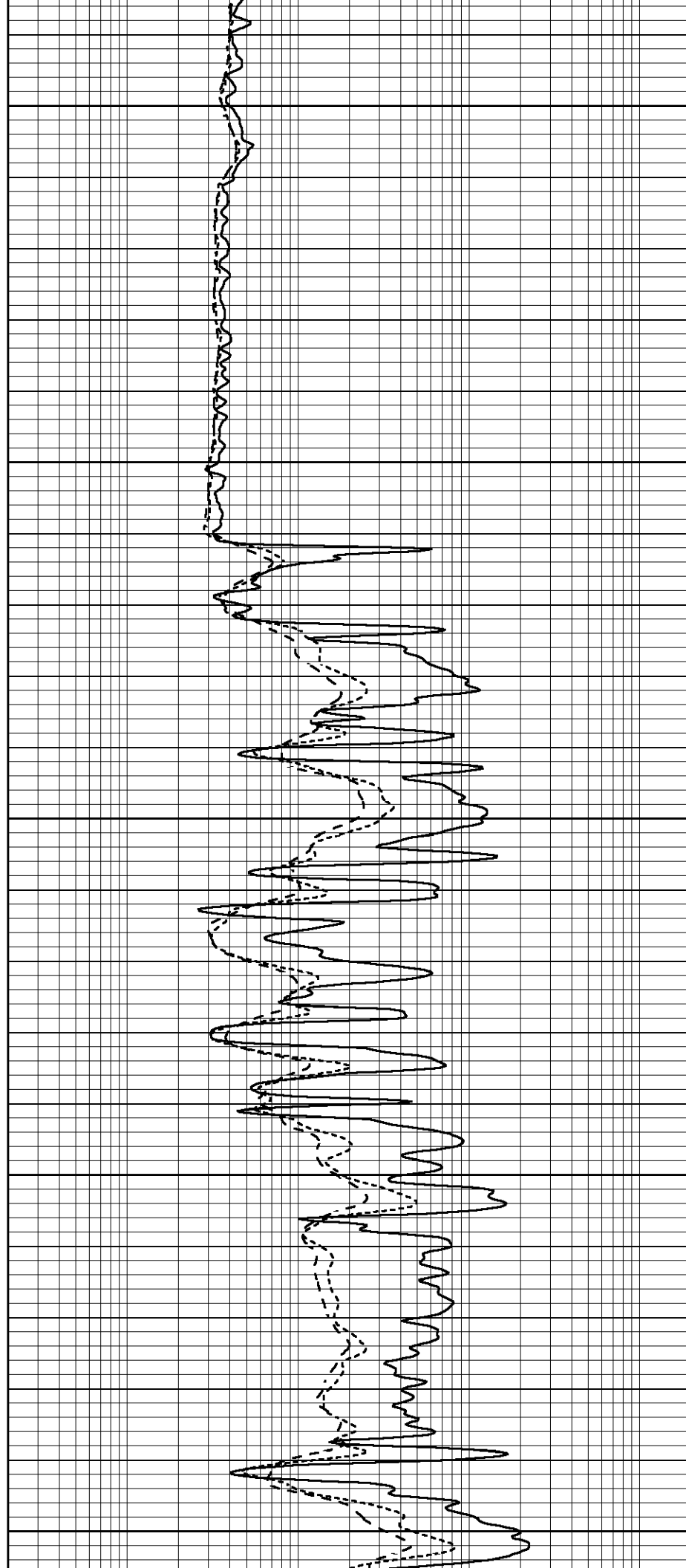
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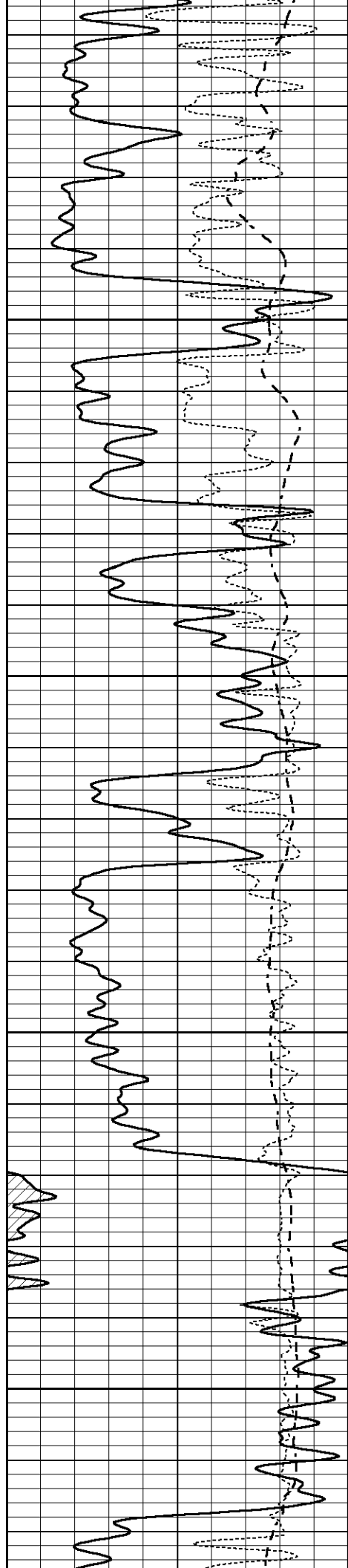
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3450

3500

3550



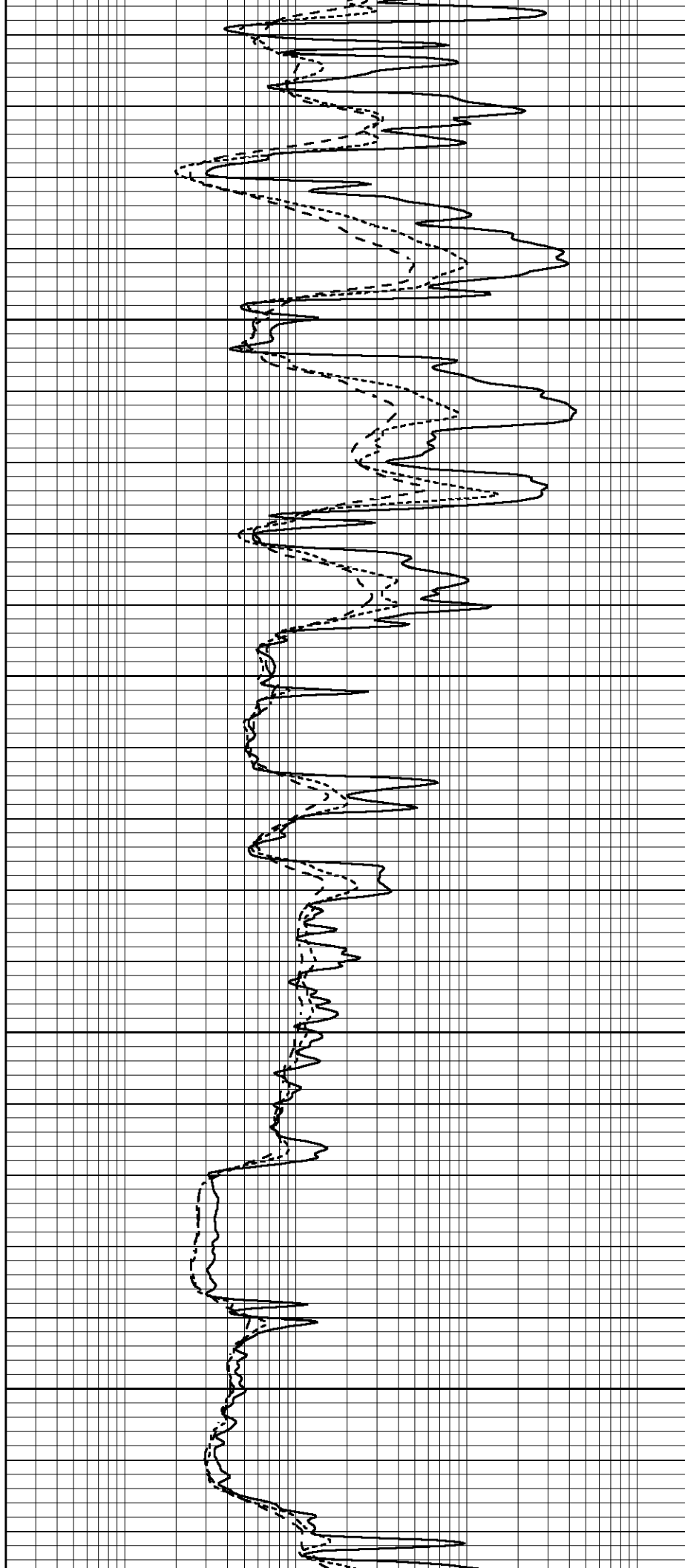


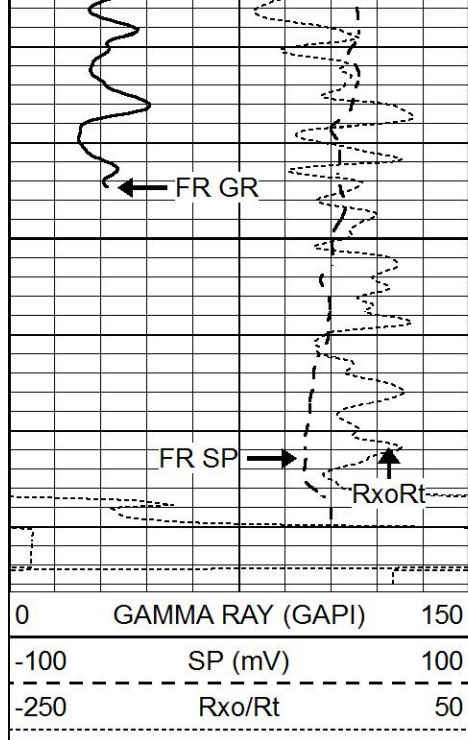
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3650

3700

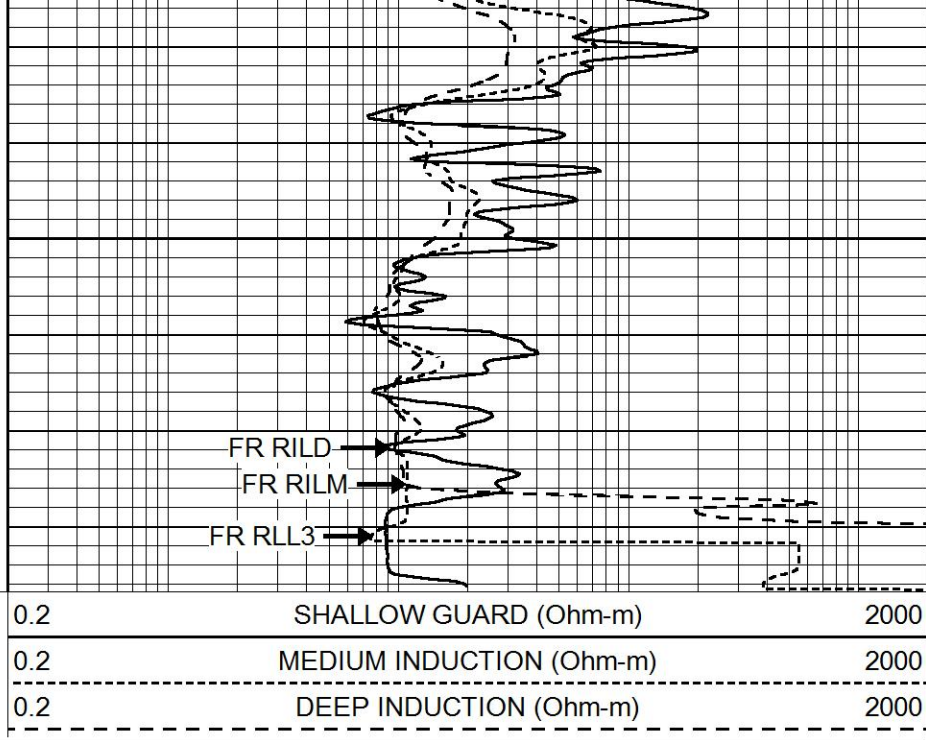
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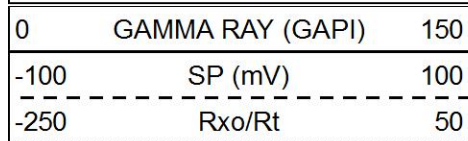
3800

LTD 3833



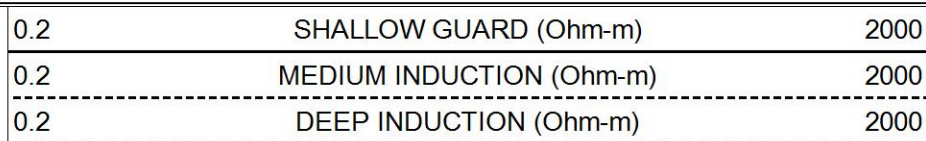
REPEAT SECTION

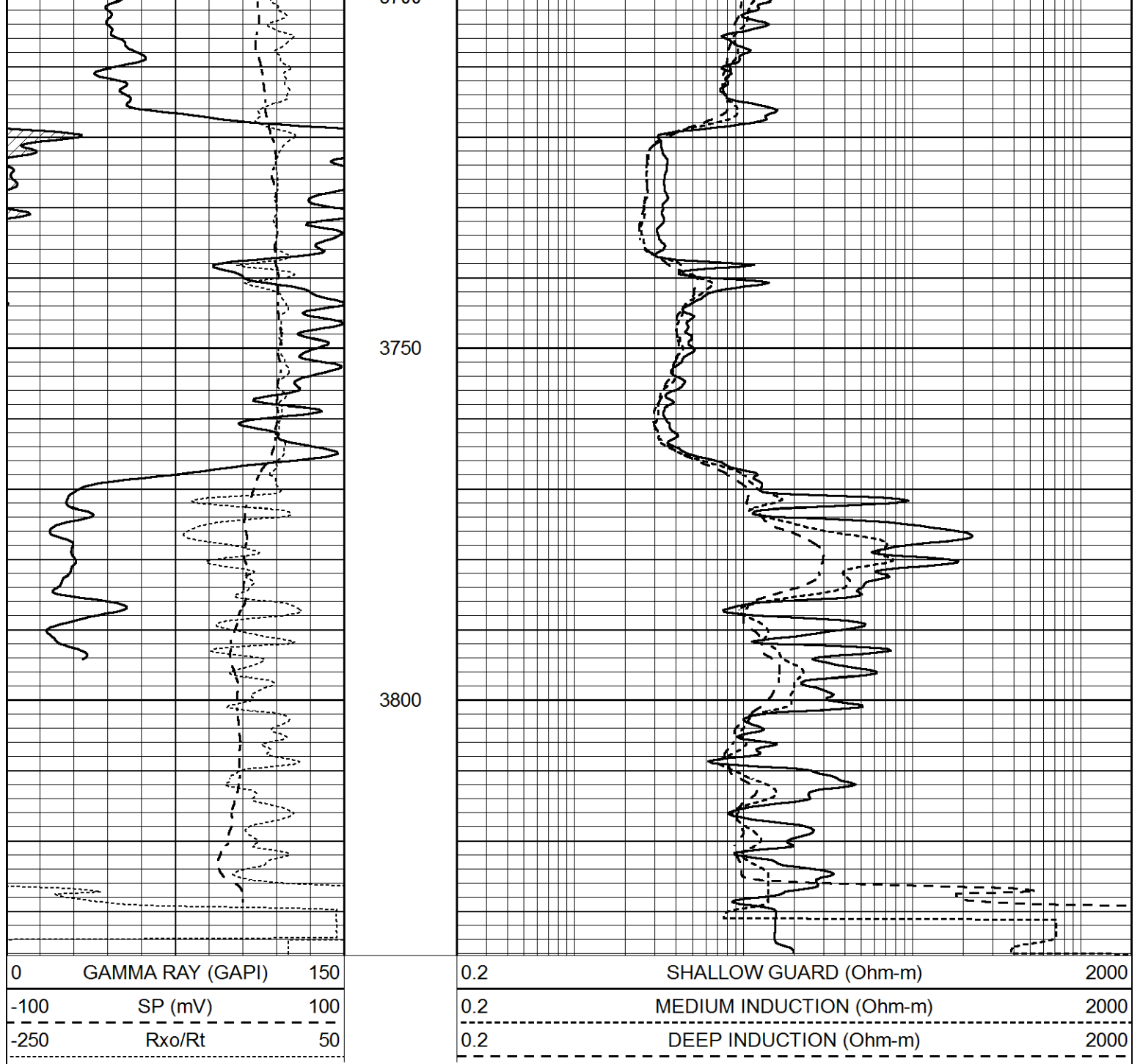
Database File 5230ddn.db
 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Sun Oct 11 21:38:08 2020
 Charted by Depth in Feet scaled 1:240



3650

3700





Calibration Report

Database File 5230ddn.db
 Dataset Pathname pass3.1
 Dataset Creation Sun Oct 11 21:38:08 2020

Dual Induction Calibration Report

Serial-Model: FW1410-56-Probe
 Surface Cal Performed: Mon Jun 15 22:52:02 2020
 Downhole Cal Performed: Tue Jul 25 12:15:37 2017
 After Survey Verification Performed: Tue Jul 25 12:15:38 2017

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.008	0.765	V	1.000	400.000	mmho/m	400.061	-3.201
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	425.187	32.510

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		5000.000	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		
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:			7					
Tool Model:			Probe1					
Performed:			Tue Dec 10 10:02:55 2019					
Calibrator Value:			1.0		GAPI			
Background Reading:			0.0		cps			
Calibrator Reading:			1.0		cps			
Sensitivity:			0.4800		GAPI/cps			