



DUAL
INDUCTION
LOG

Company DARRAH OIL COMPANY, LLC.

Well ELLIOT #1-11

Field UNAMED

County OSBORNE State KANSAS

Location: API #: 15-141-20492-0000

Permanent Datum GROUND LEVEL Elevation 1966
Log Measured From KELLY BUSHING 5' A.G.L
Drilling Measured From KELLY BUSHING

SEC 11 TWP 10S RGE 14W

Elevation
K.B. 1971
D.F. 1969
G.L. 1966

Date 12/21/21

Run Number ONE

Depth Driller 3939

Depth Logger 3938

Bottom Logged Interval 3936

Top Log Interval 00

Casing Driller 8 5/8" @ 220

Casing Logger 220

Bit Size 7 7/8

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity N/A

pH / Fluid Loss N/A

Source of Sample FLOWLINE

Rm @ Meas. Temp .59 @ 62F

Rmf @ Meas. Temp .44 @ 62F

Rmc @ Meas. Temp .70 @ 62F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .31 @ 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 SEAN DEENIHAN

TJ DREILING

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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.

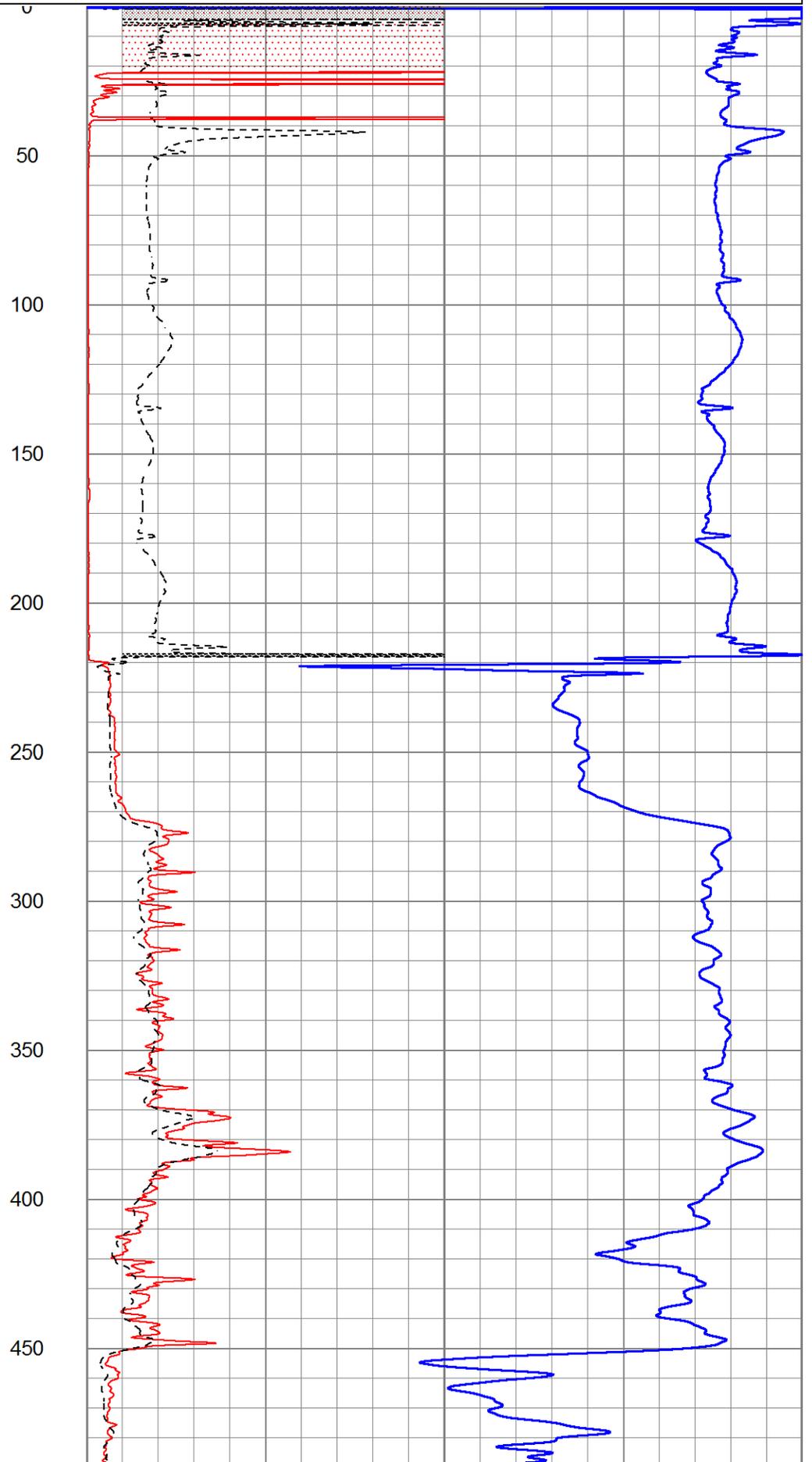
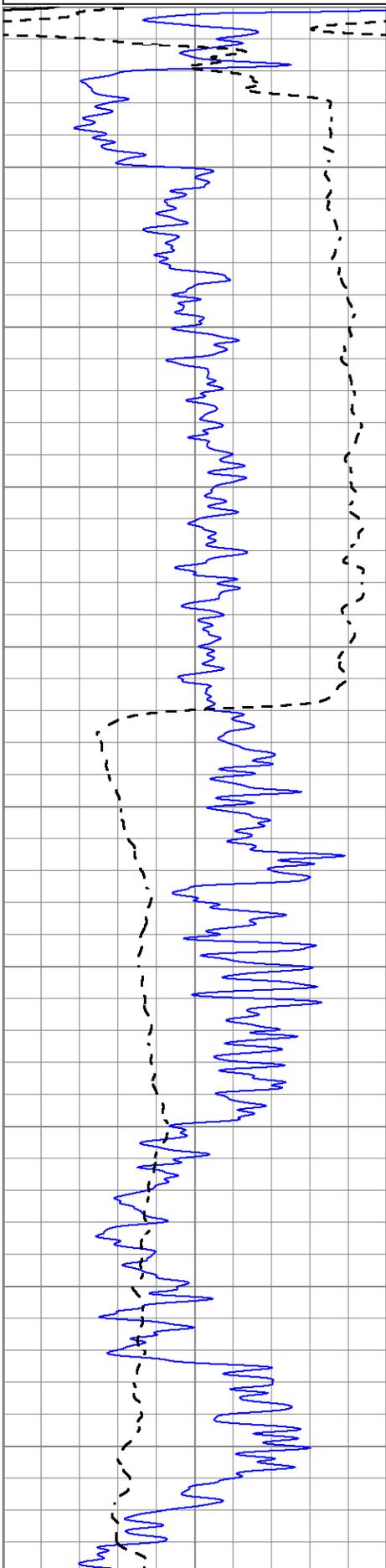
Comments

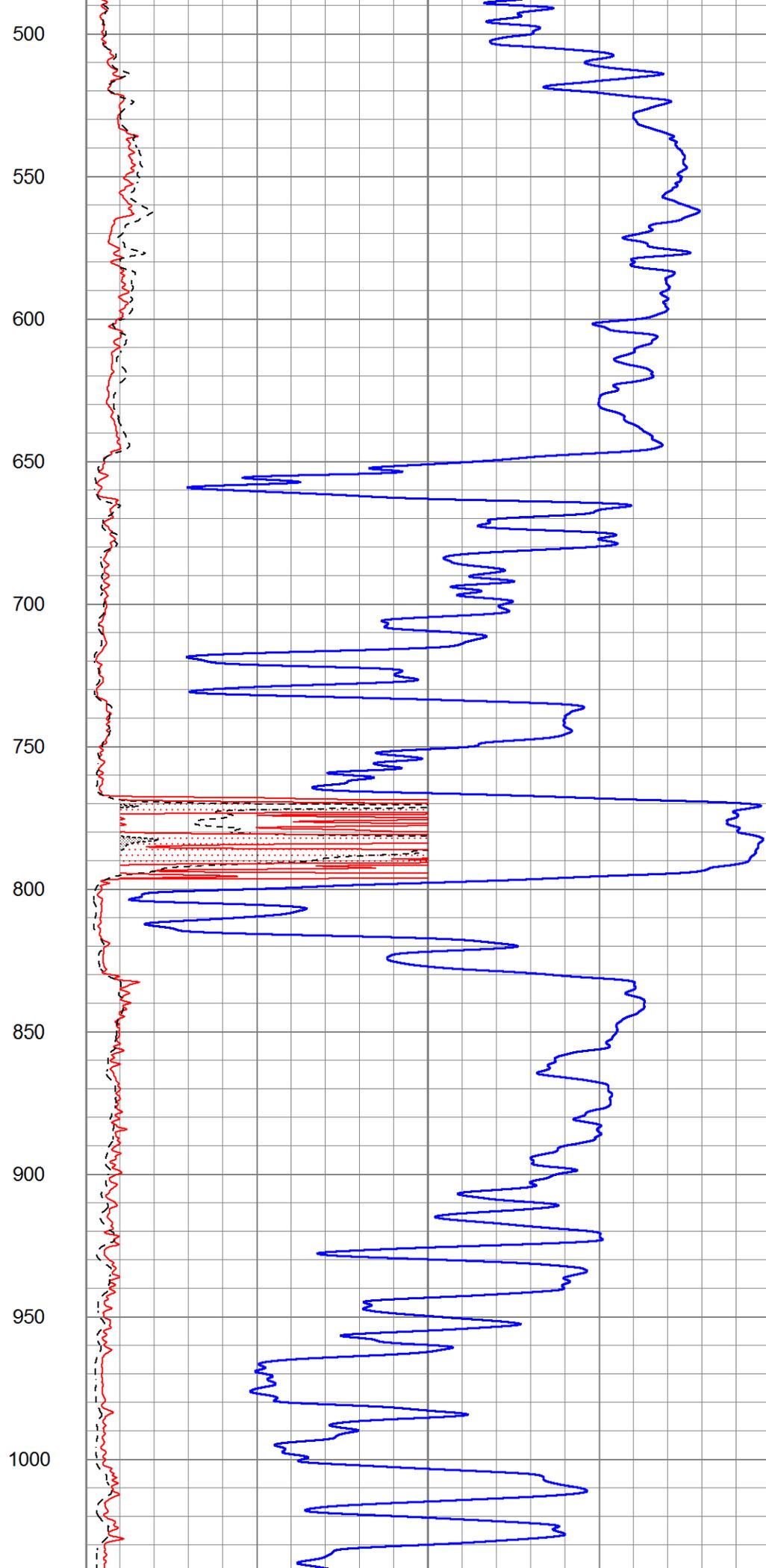
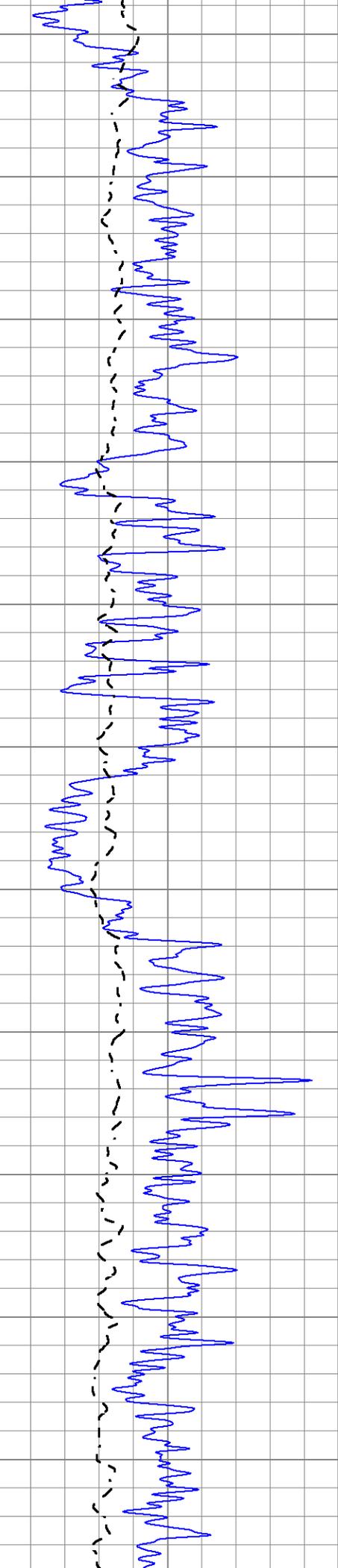
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
LURAY, KS. - 5 NORTH TO RD. 412 - 6 WEST TO CURVE NORTH 1 MILE
BACK WEST 3 1/2 MILES - SOUTH INTO

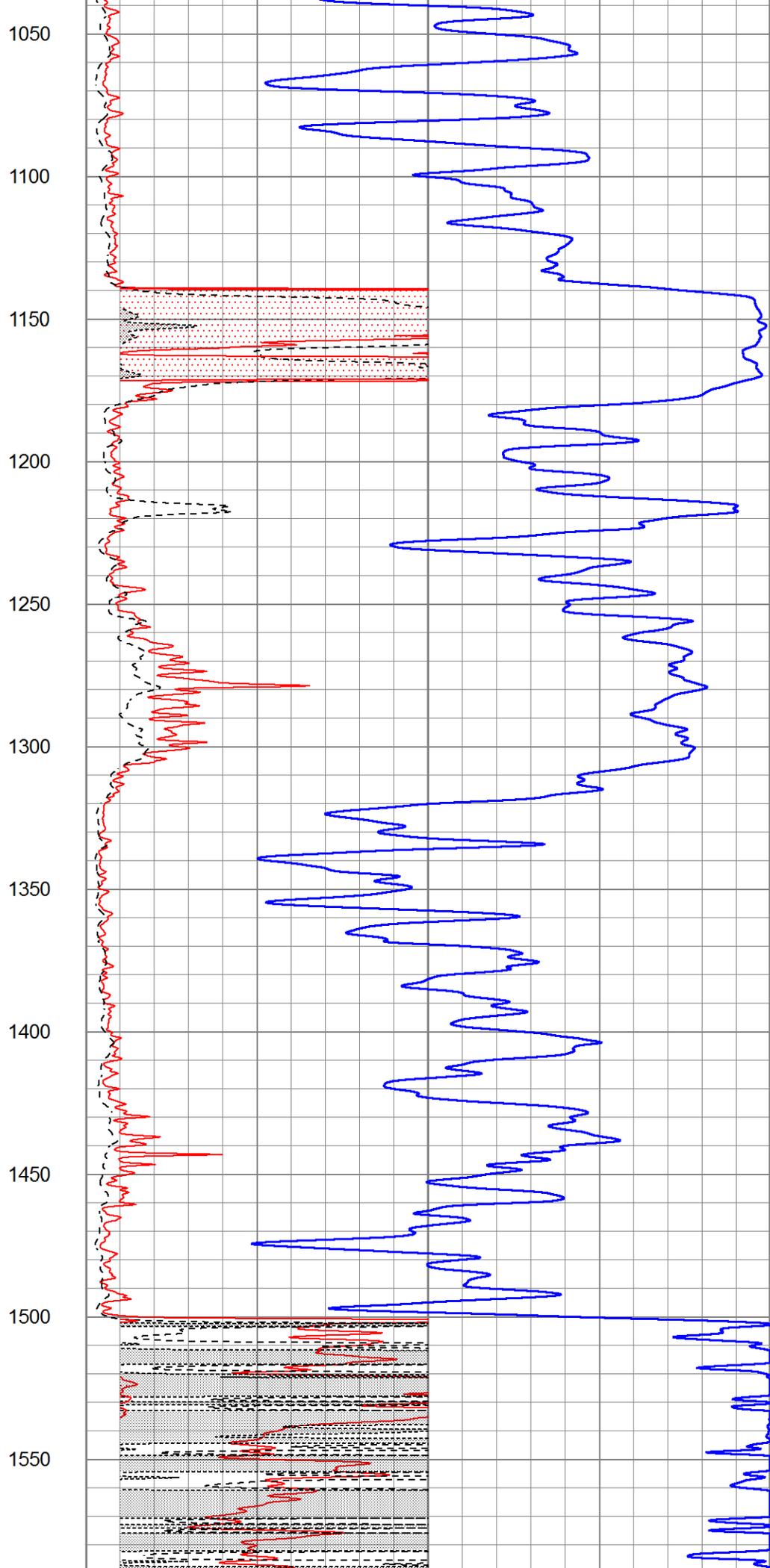
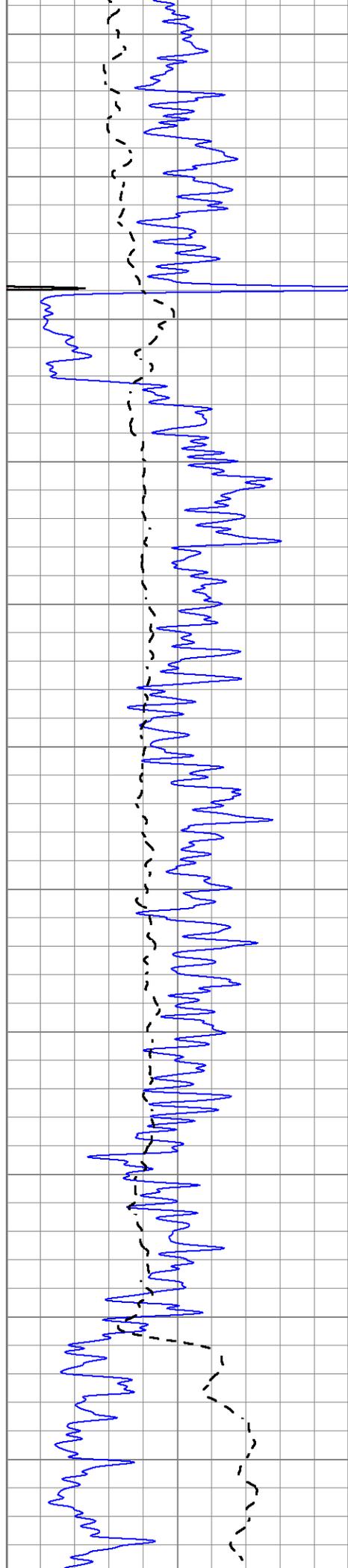
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Presentation Format _dil2
Dataset Creation Tue Dec 21 16:30:28 2021
Charted by Depth in Feet scaled 1:600

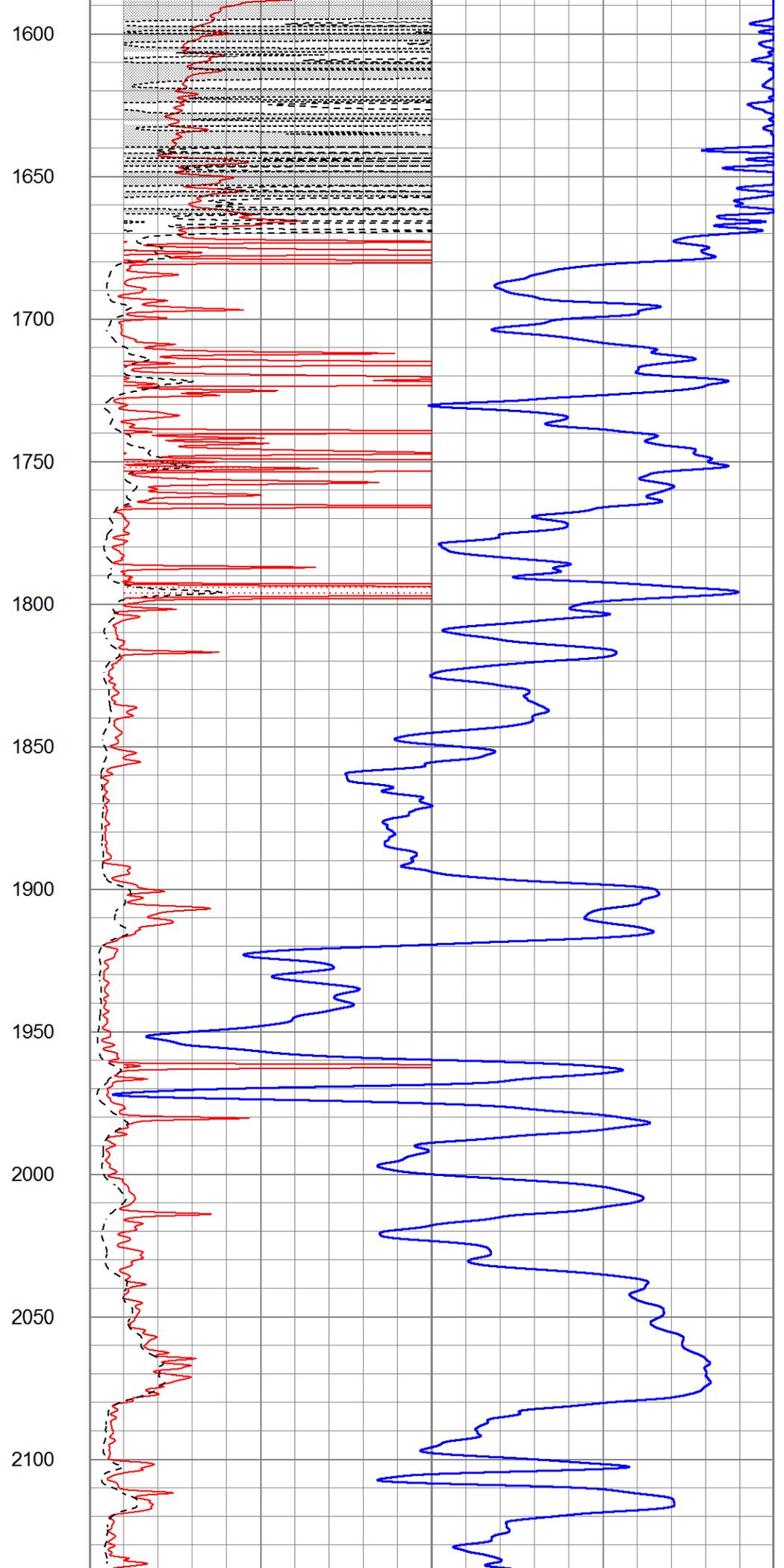
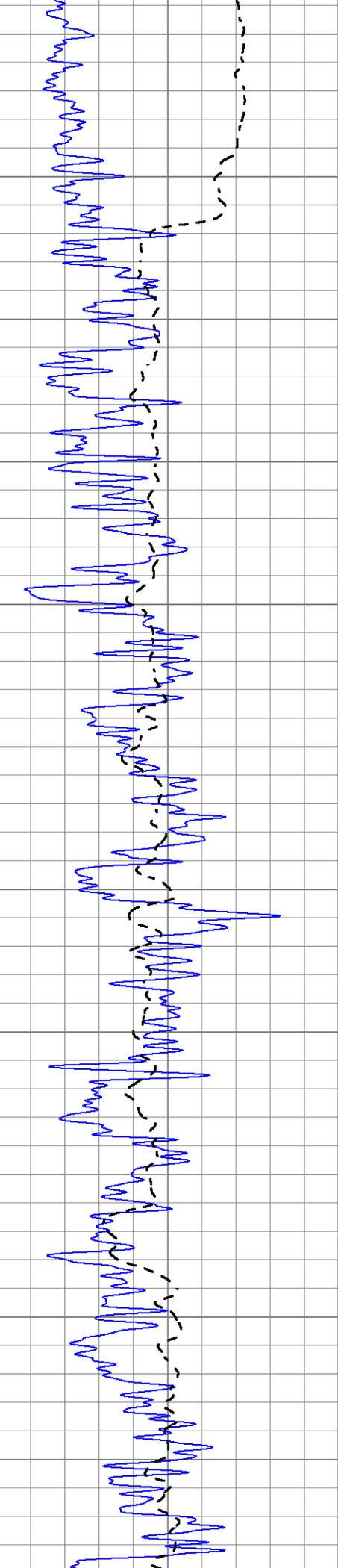
0 Gamma Ray (GAPI) 150
-100 SP (mV) 100

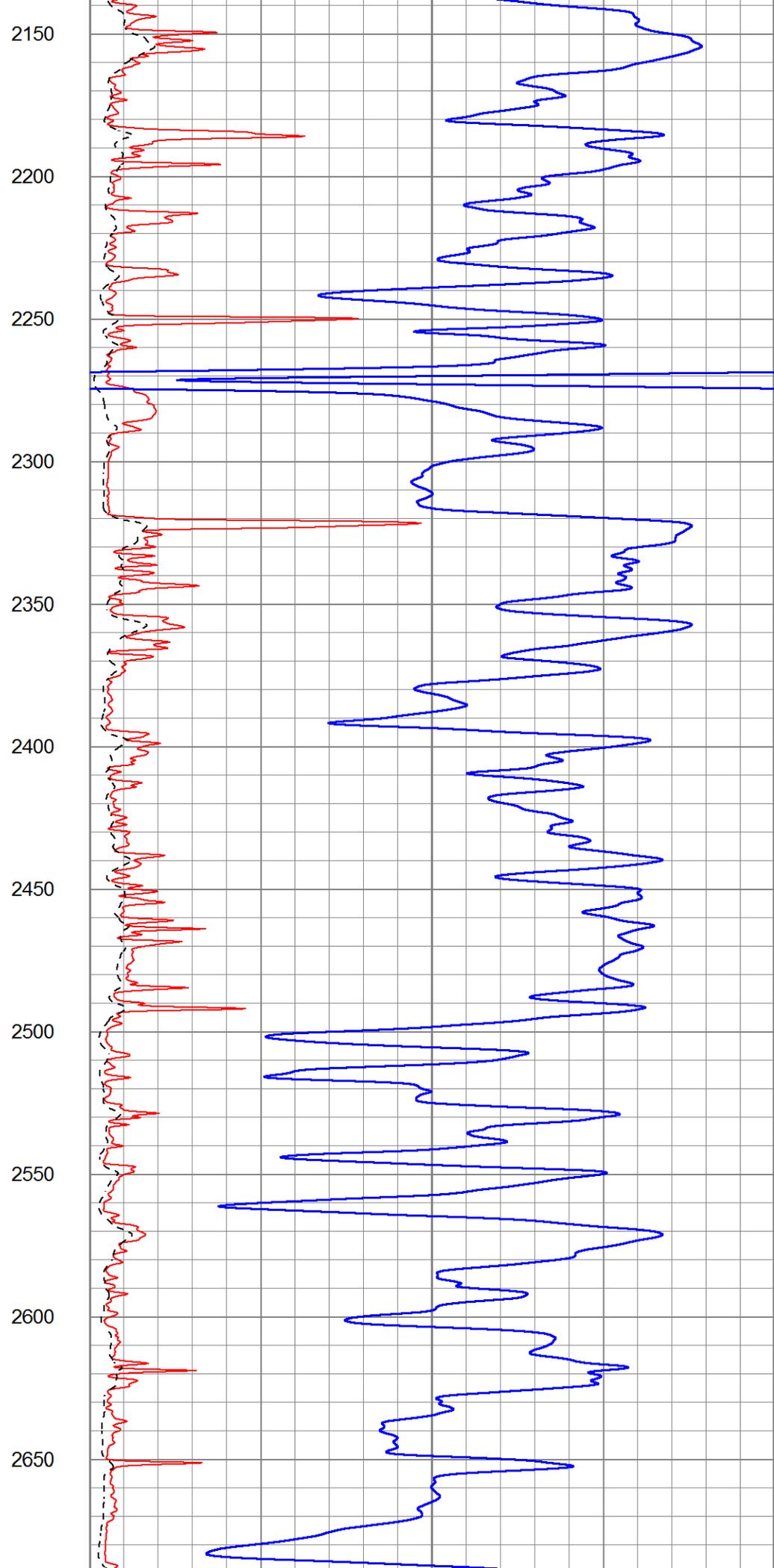
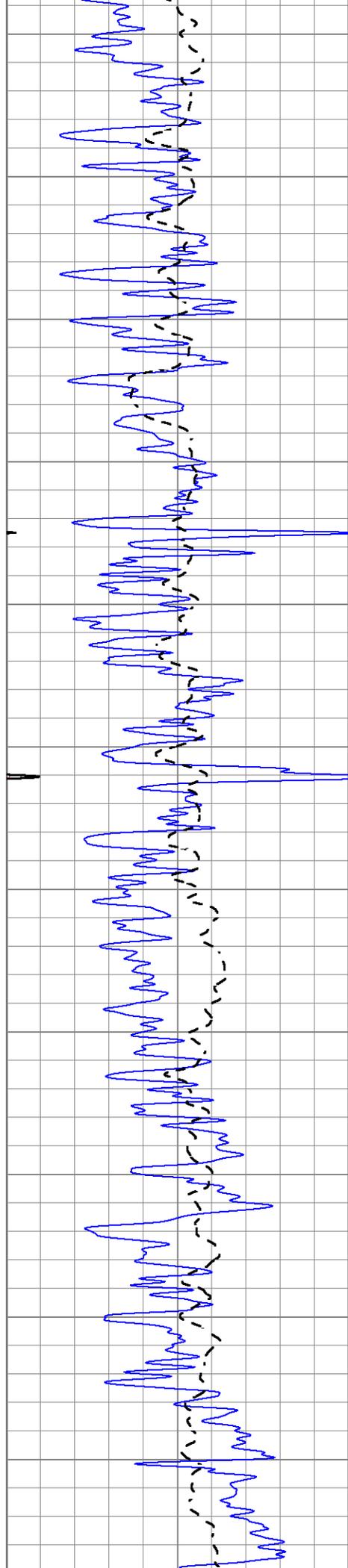
1000 CILD (mmho/m) 0
0 RLL3 (Ohm-m) 50
0 Deep Induction (Ohm-m) 50
50 RILD X10 (Ohm-m) 500
50 RLL3 X10 (Ohm-m) 500

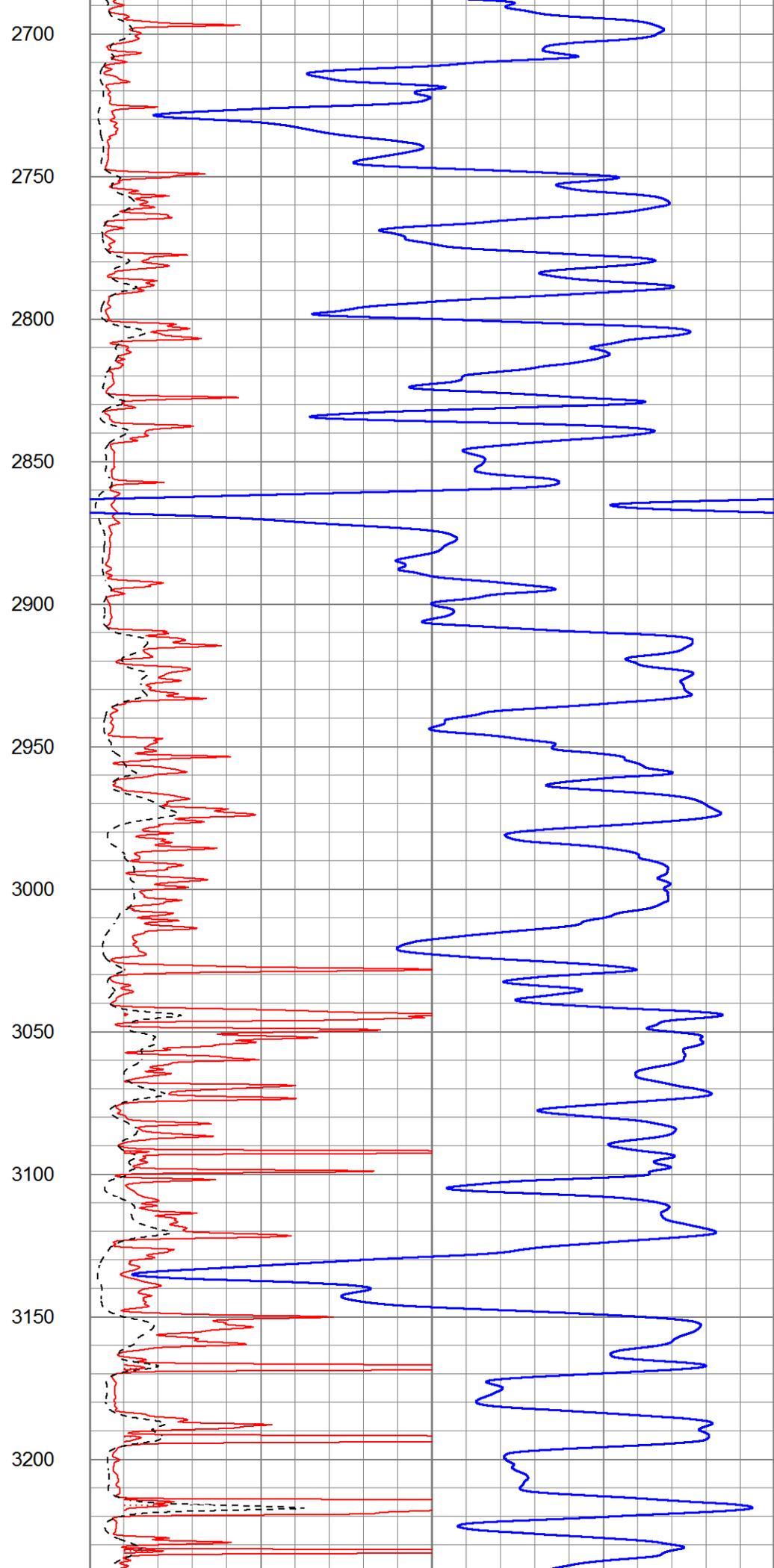
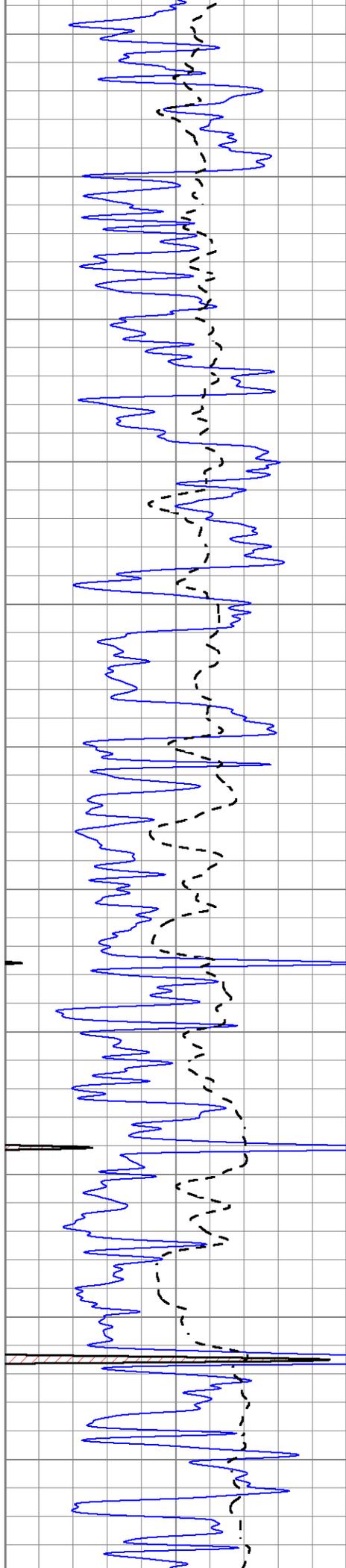


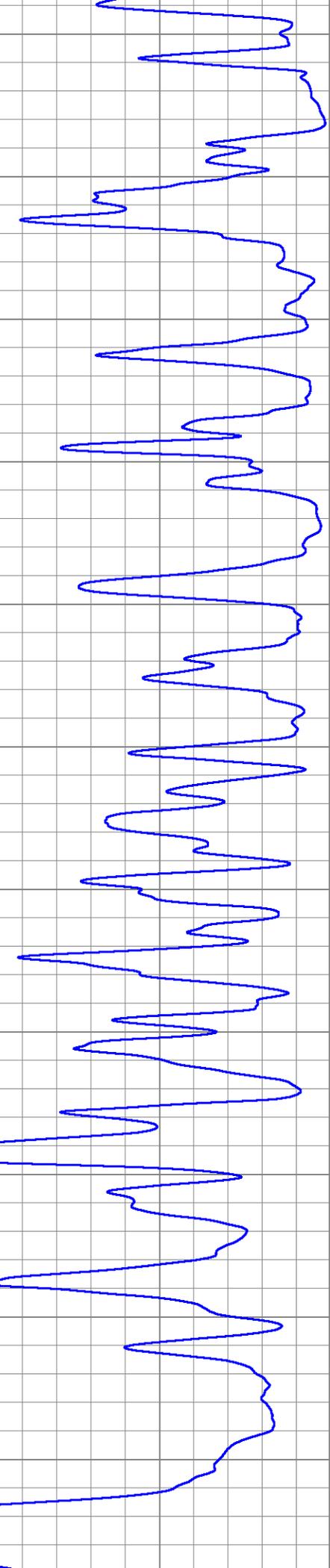
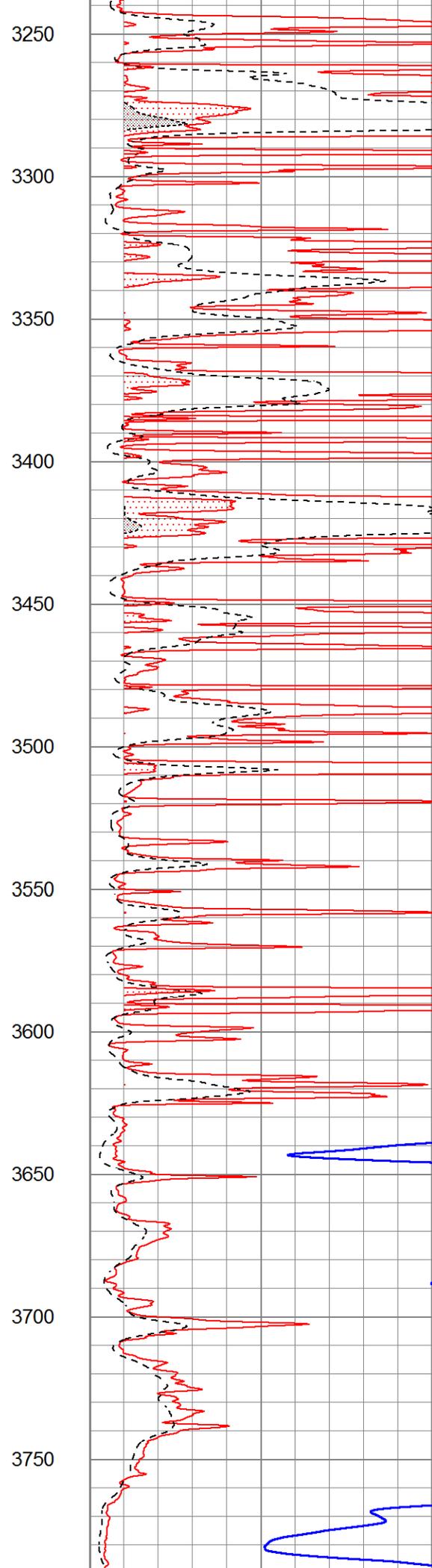
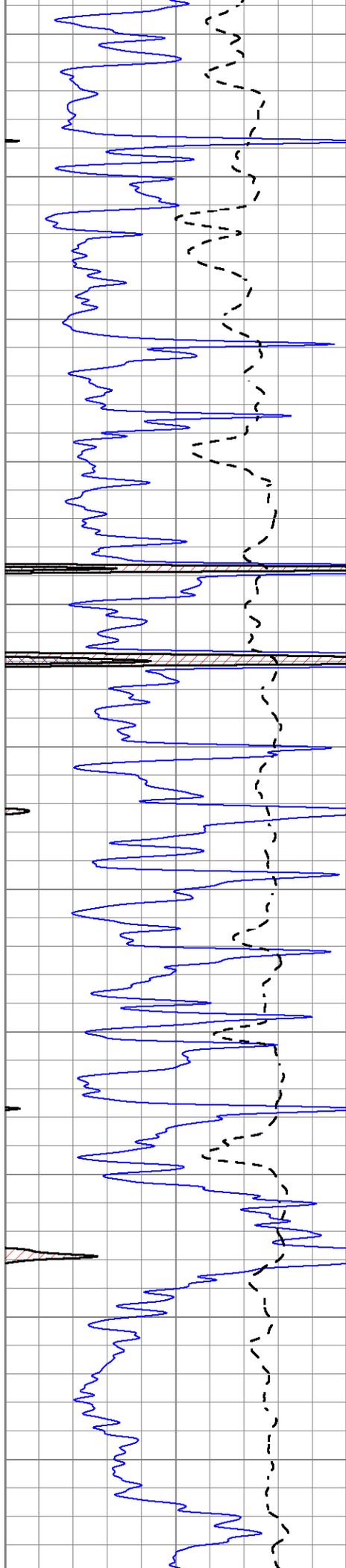


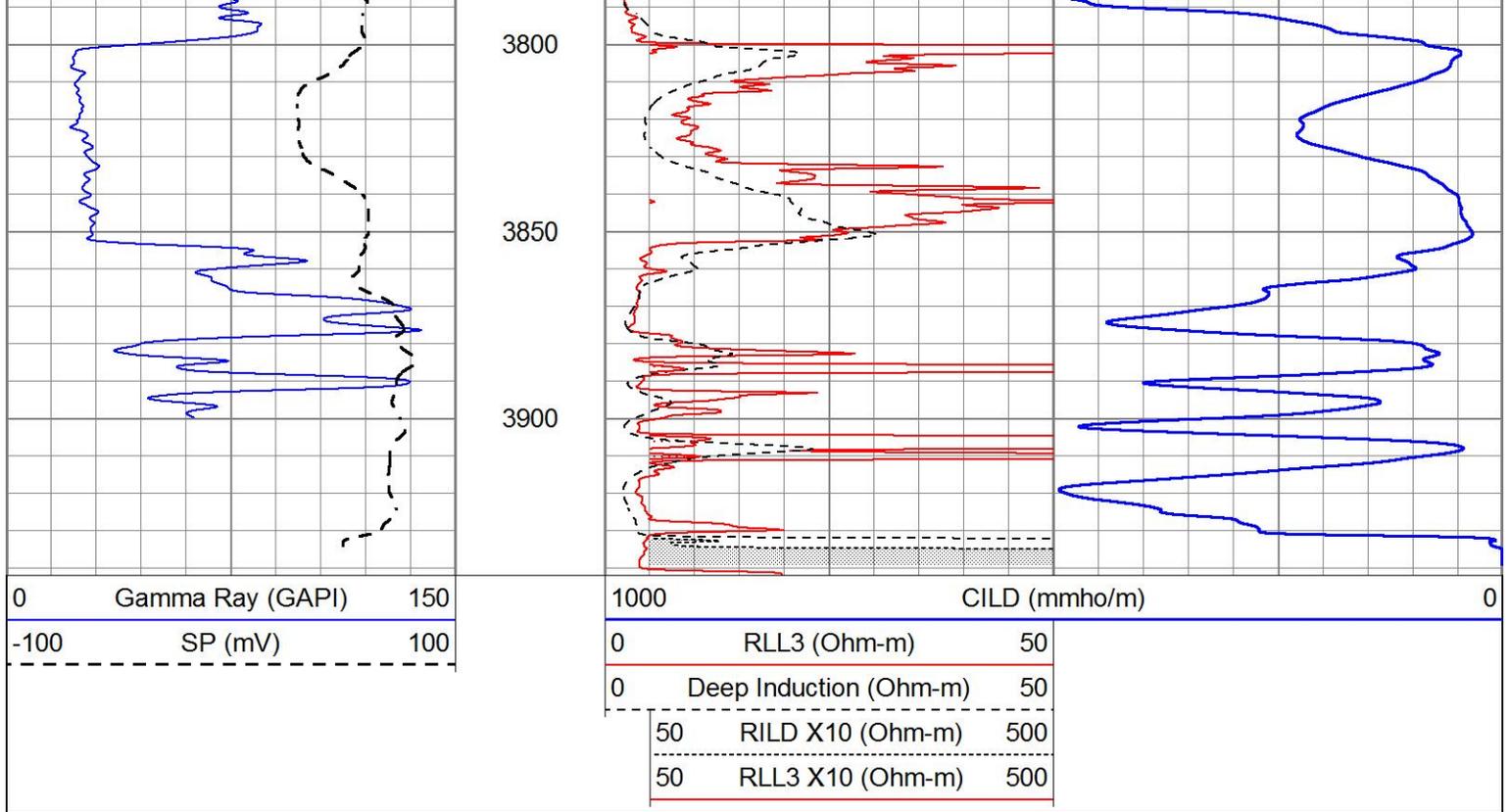








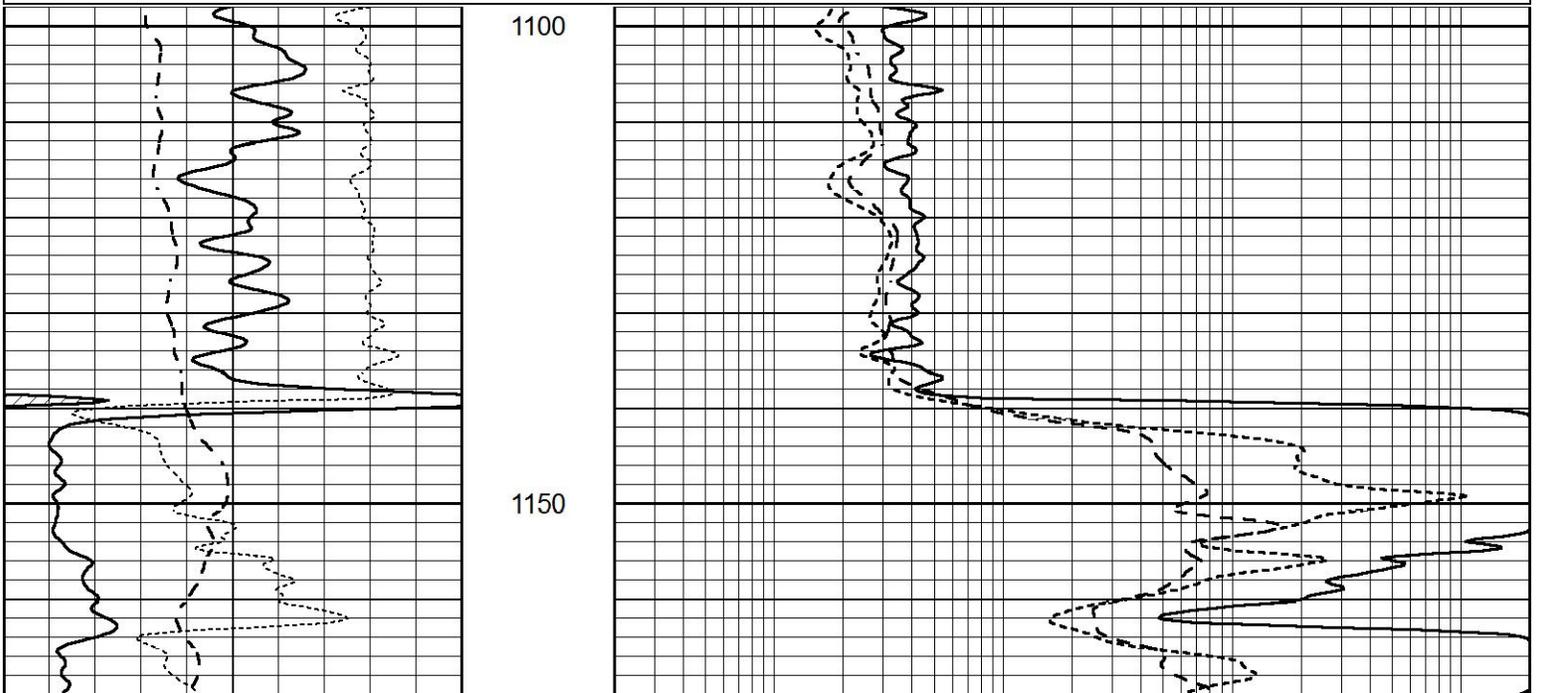


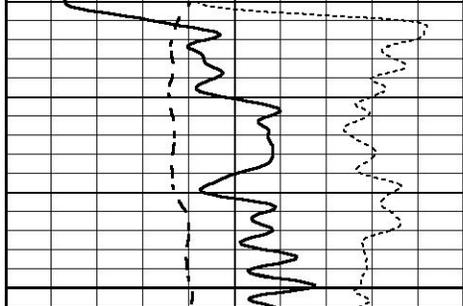


ANHYDRITE

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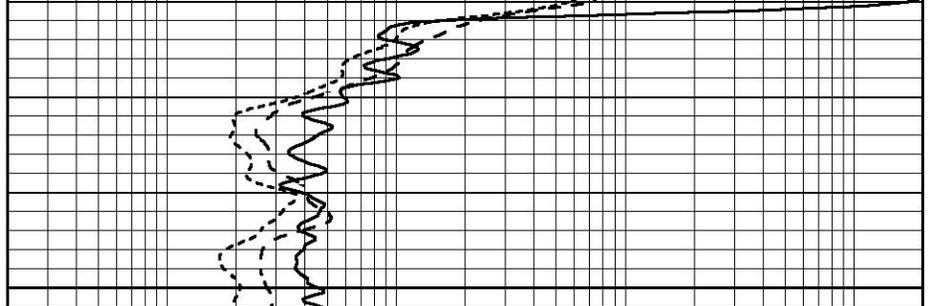
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000





1200

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

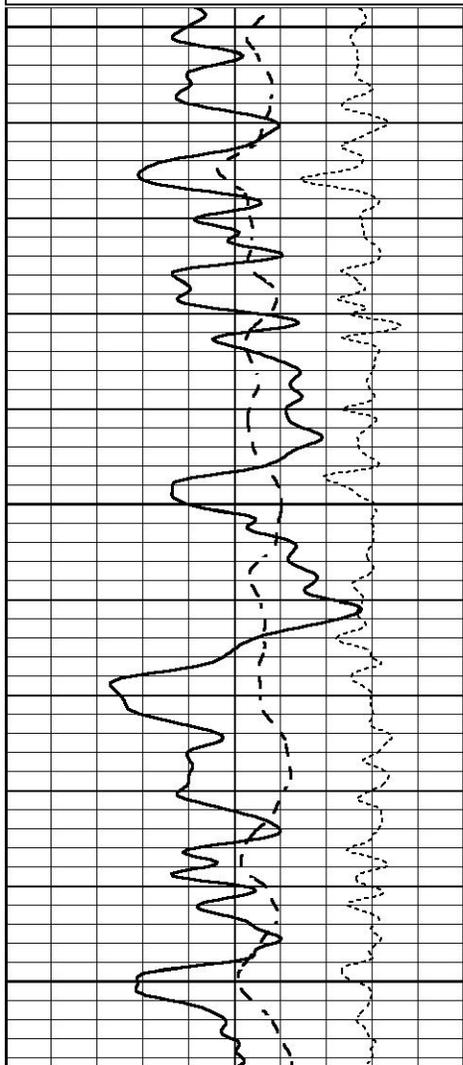


MAIN SECTION

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

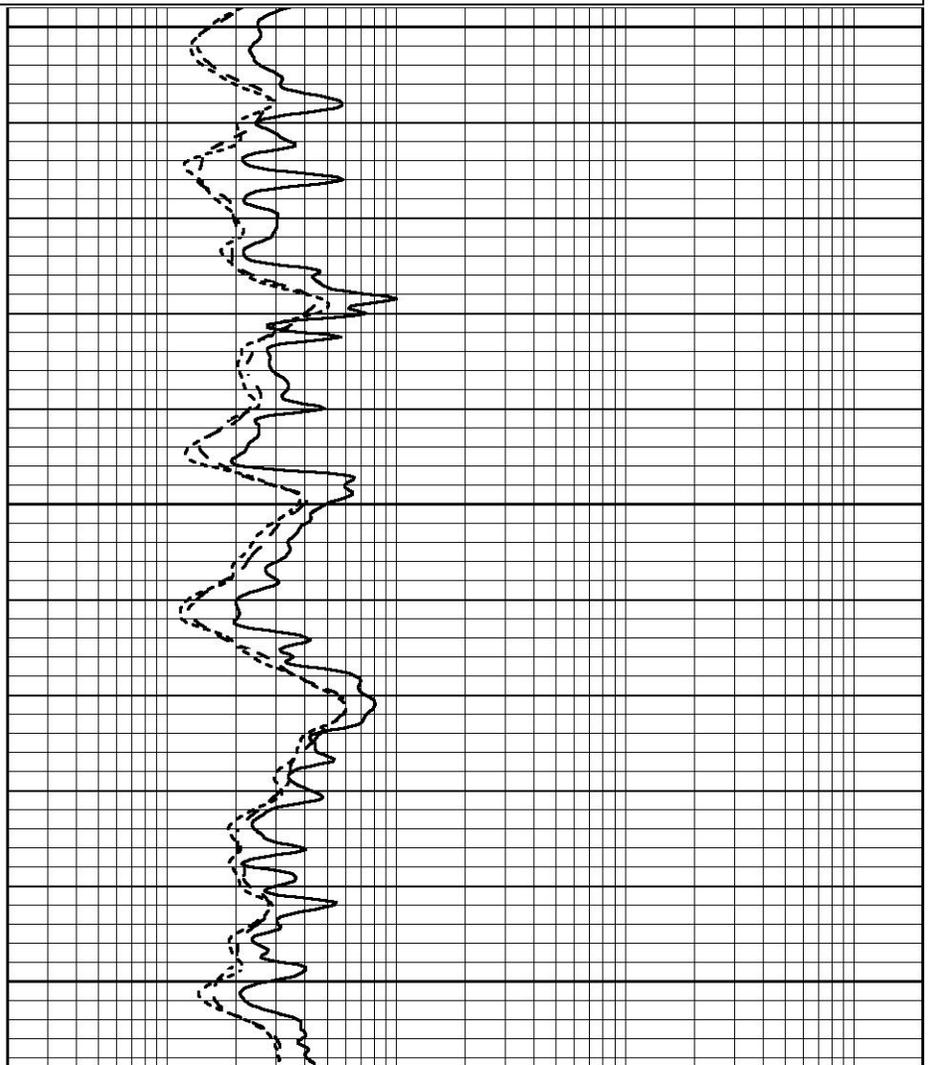
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

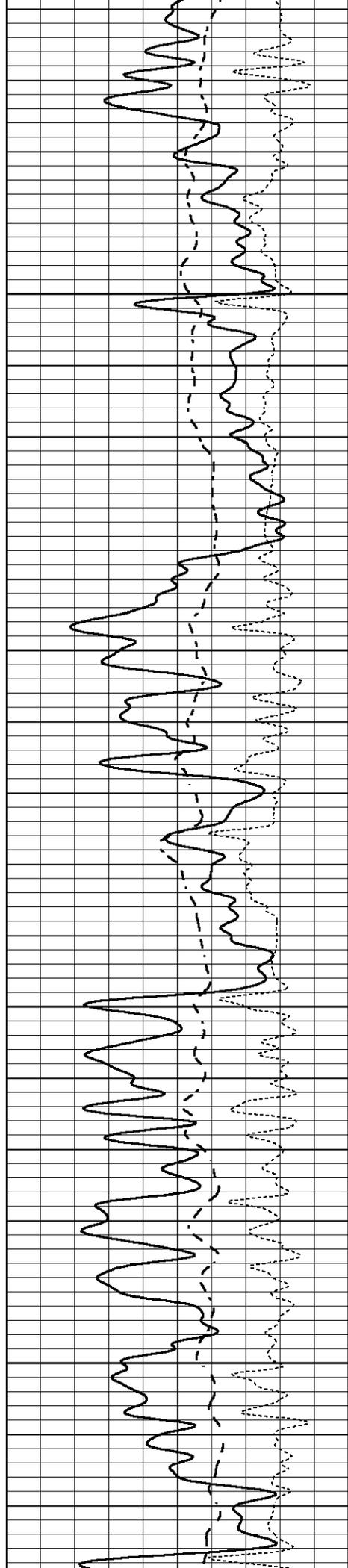


2500

2550

2600



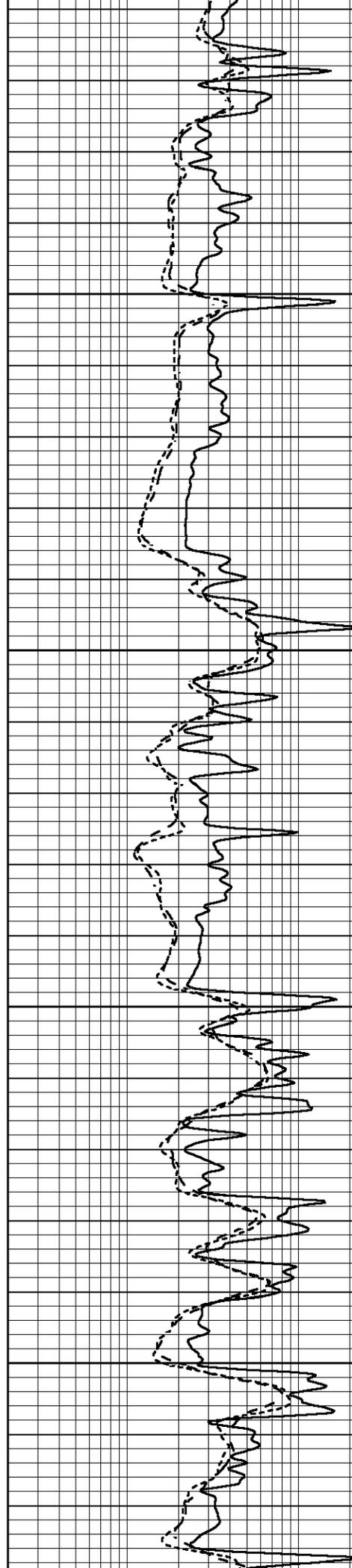


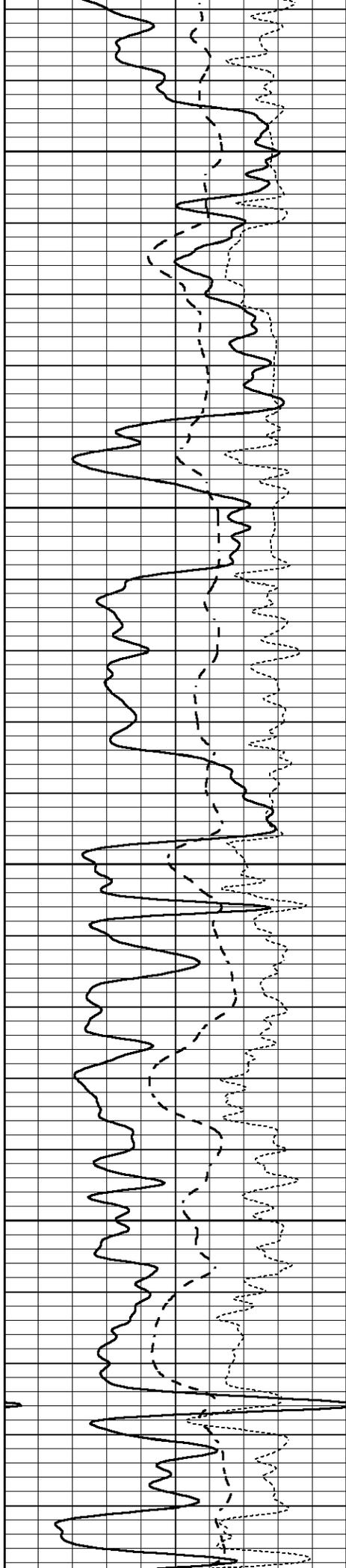
2650

2700

2750

2800



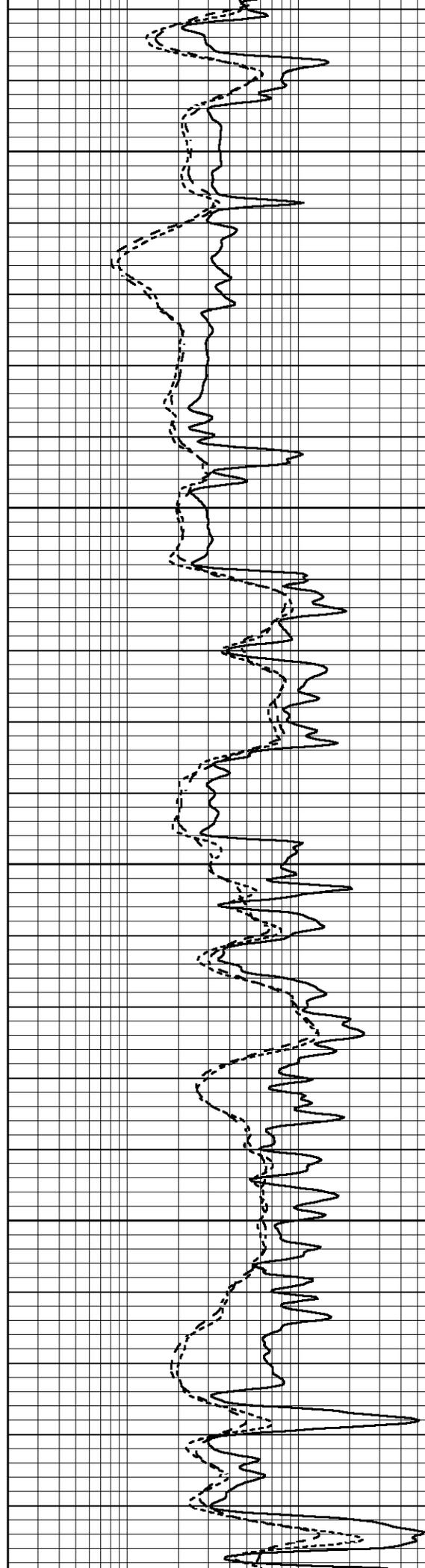


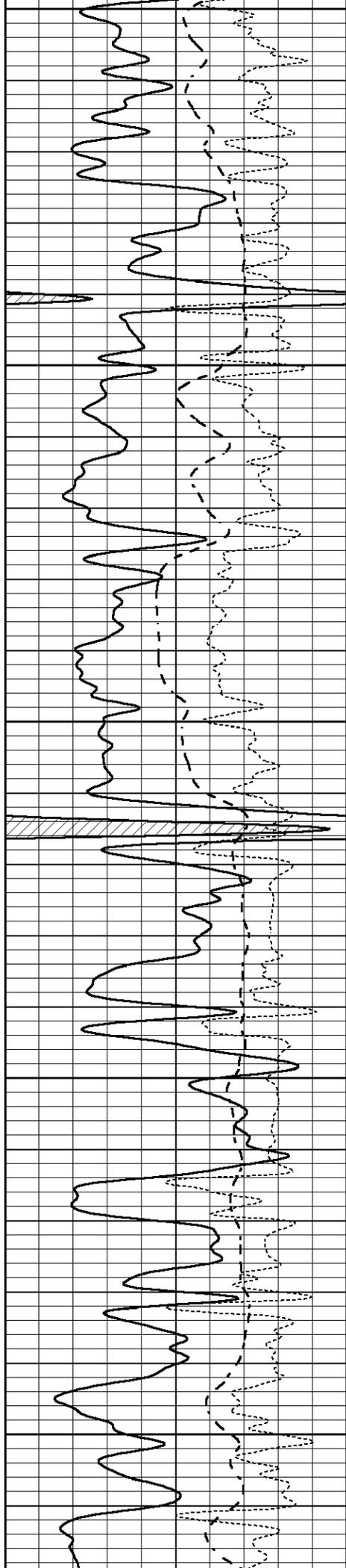
2850

2900

2950

3000





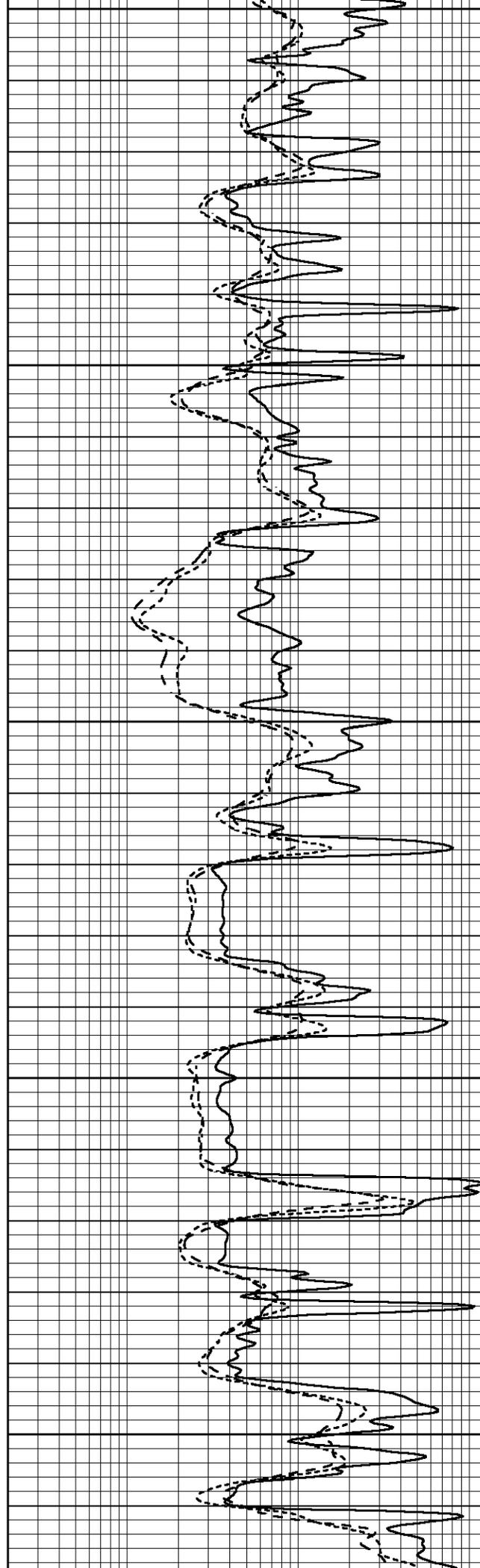
3050

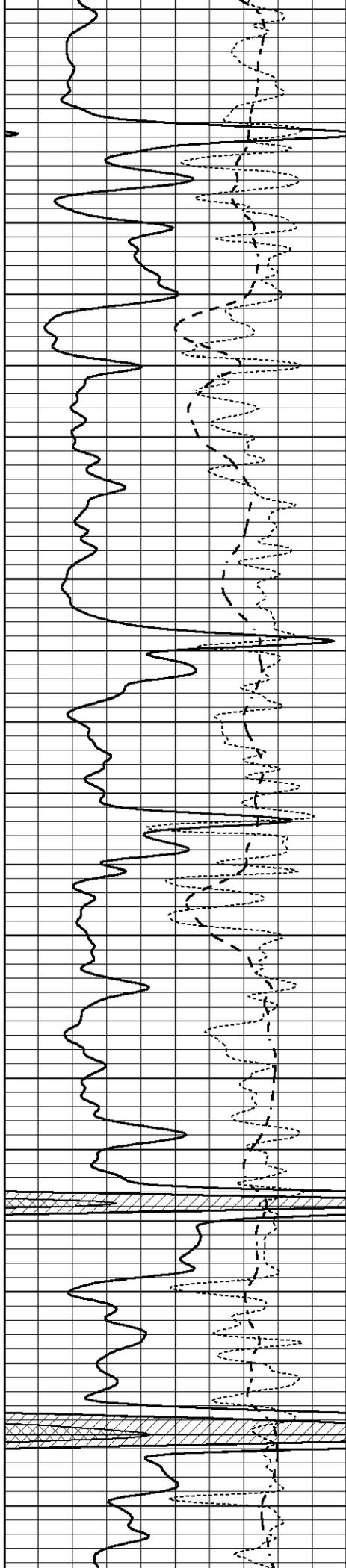
3100

3150

3200

3250



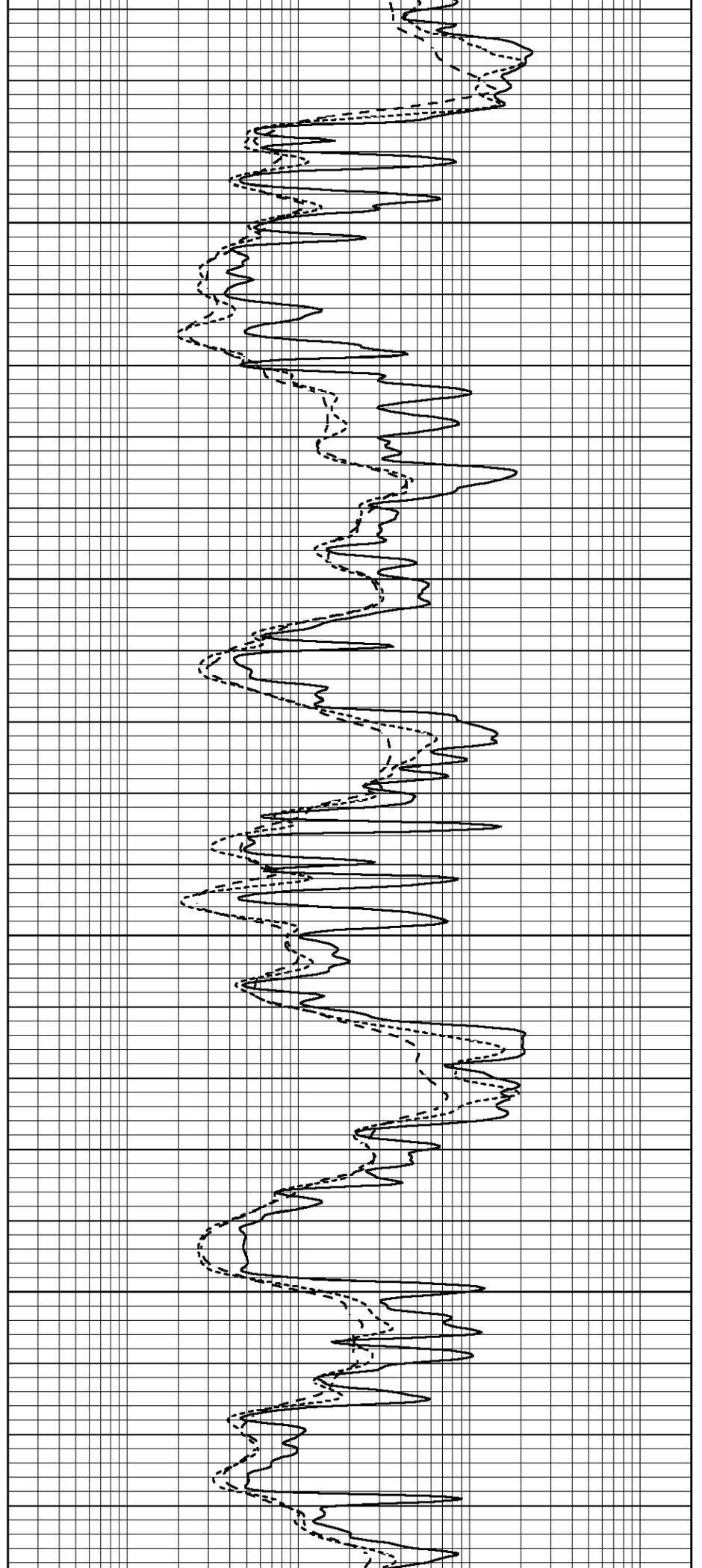


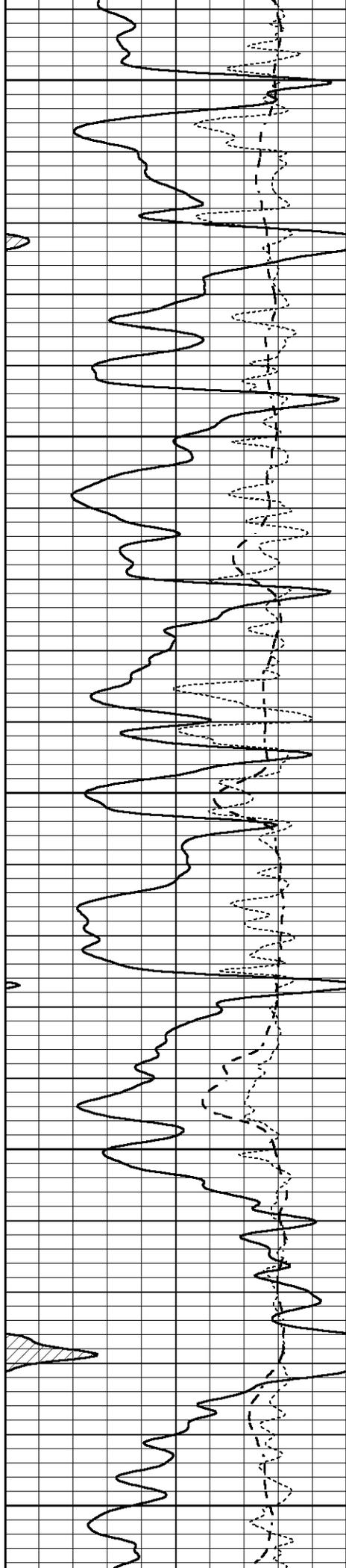
3300

3350

3400

3450





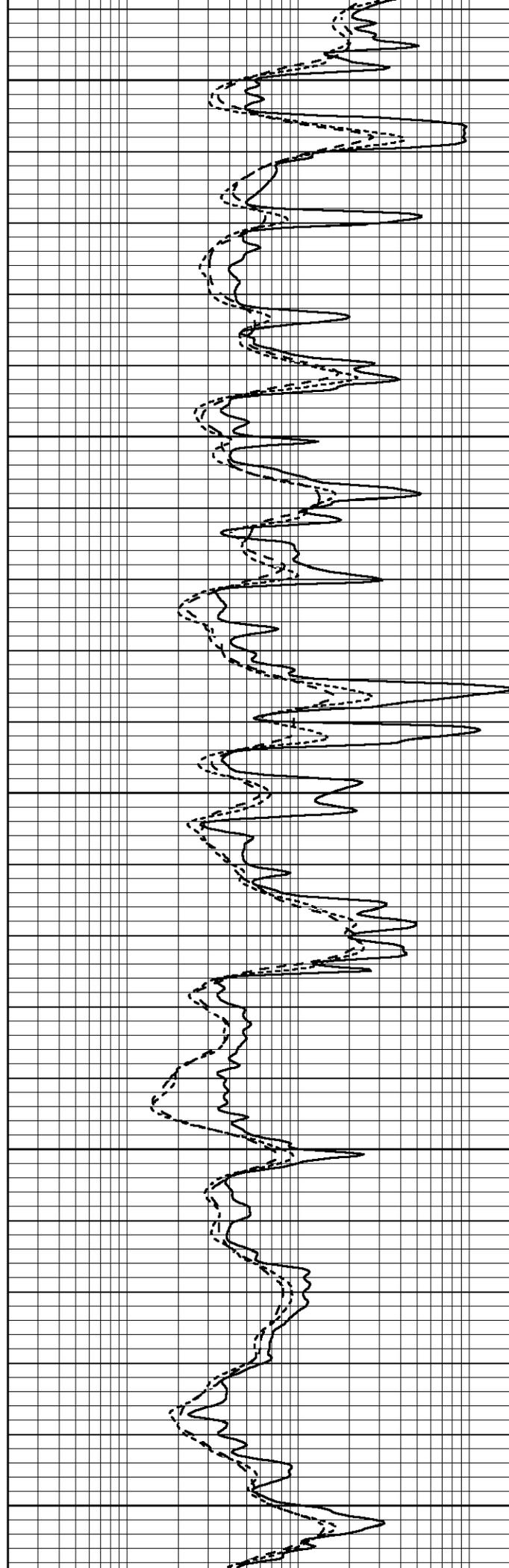
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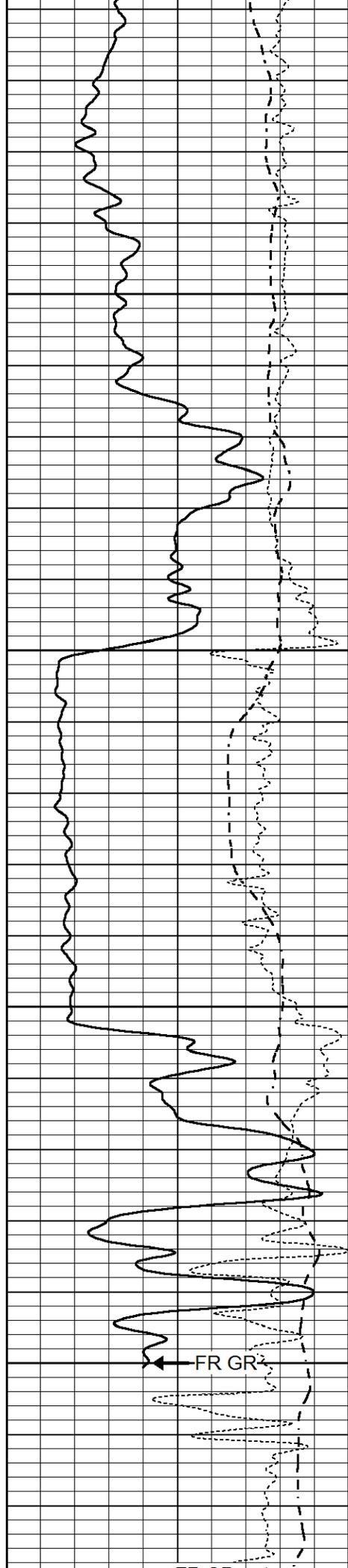
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3600

3650

3700





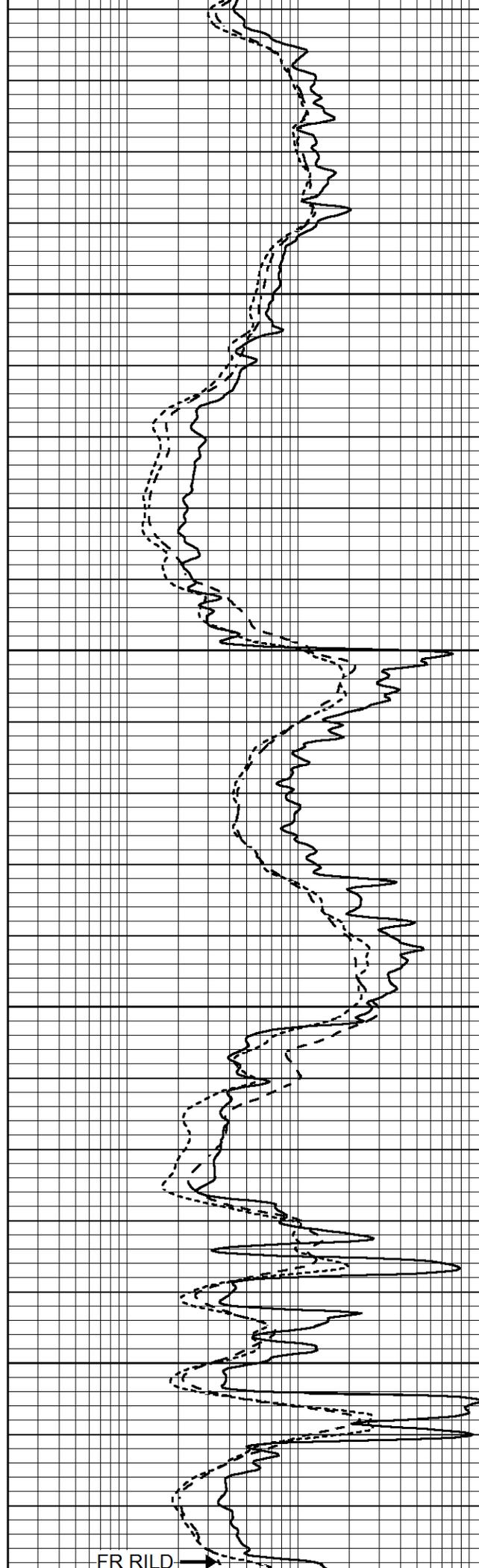
3750

3800

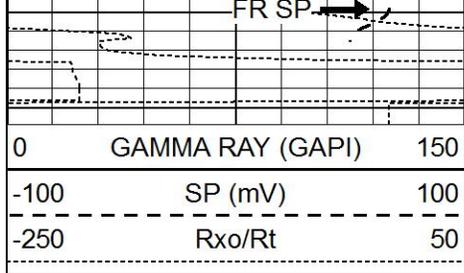
3850

3900

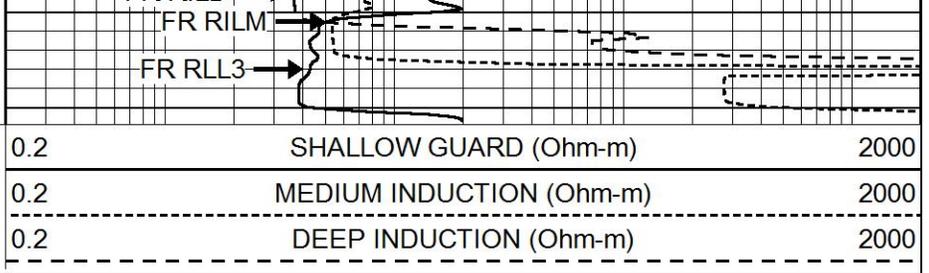
FR GR



FR RILD



LTD 3938



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

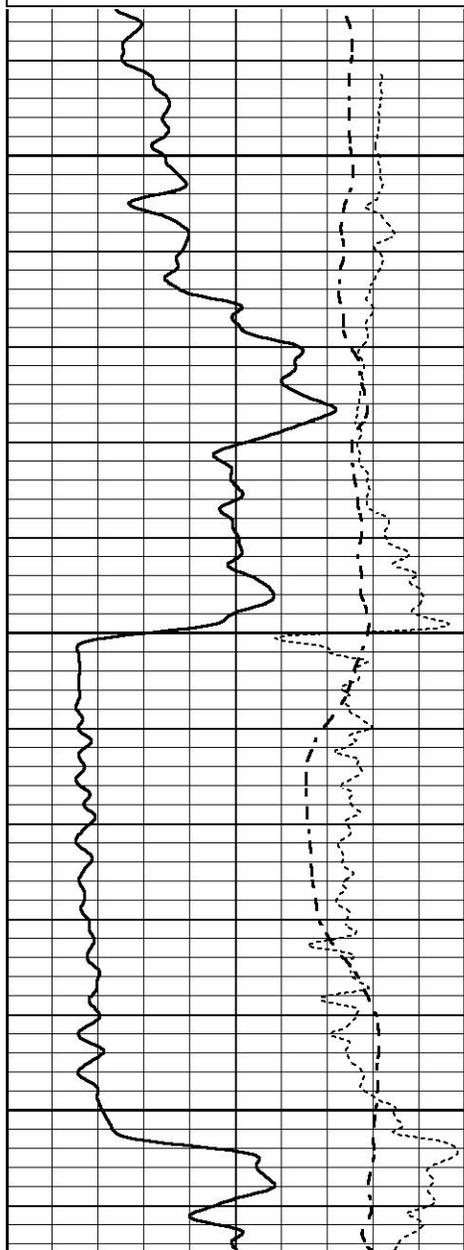


REPEAT SECTION

Database File 6070pe.db
 Dataset Pathname pass2.1
 Presentation Format _dil
 Dataset Creation Tue Dec 21 15:36:22 2021
 Charted by Depth in Feet scaled 1:240

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

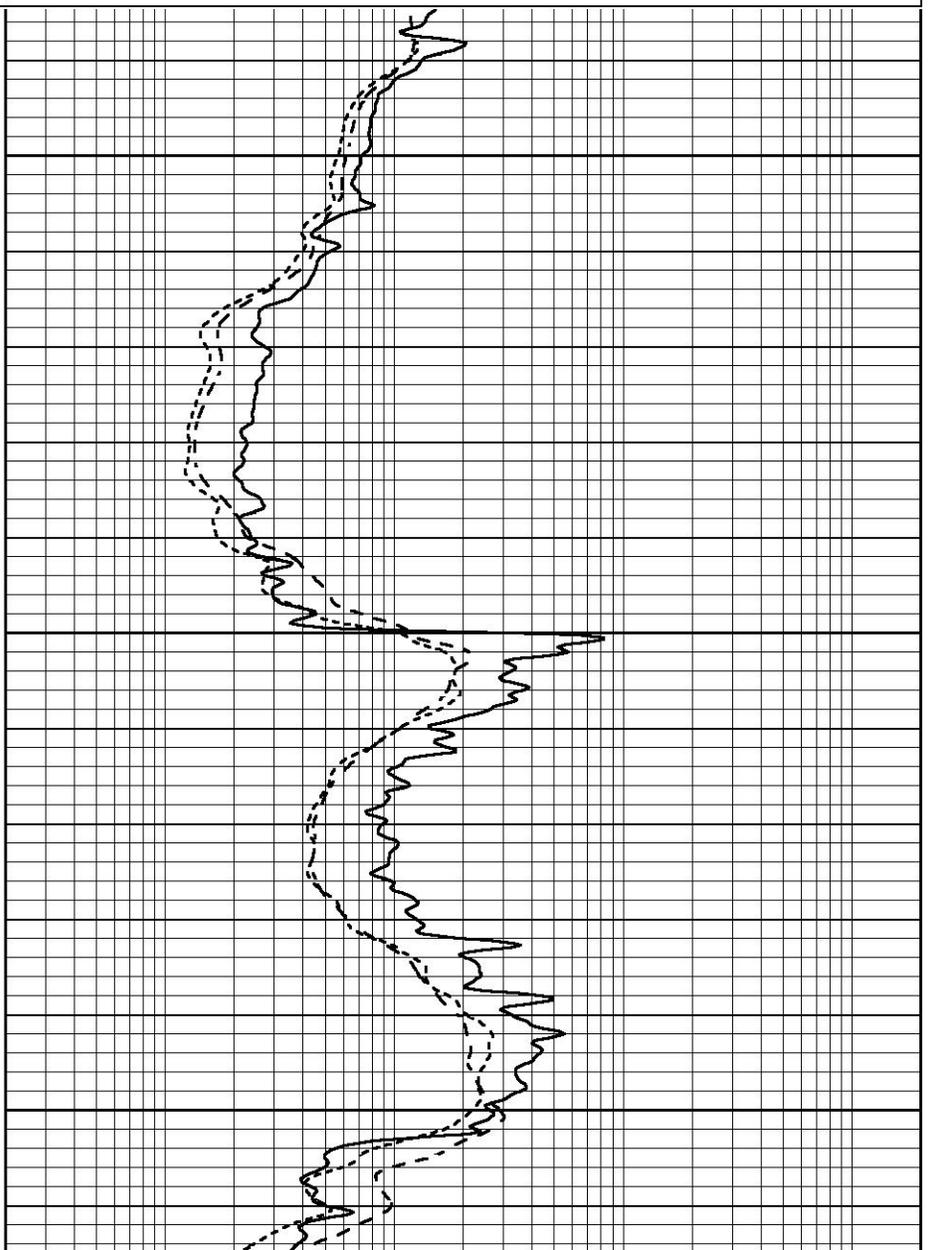
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

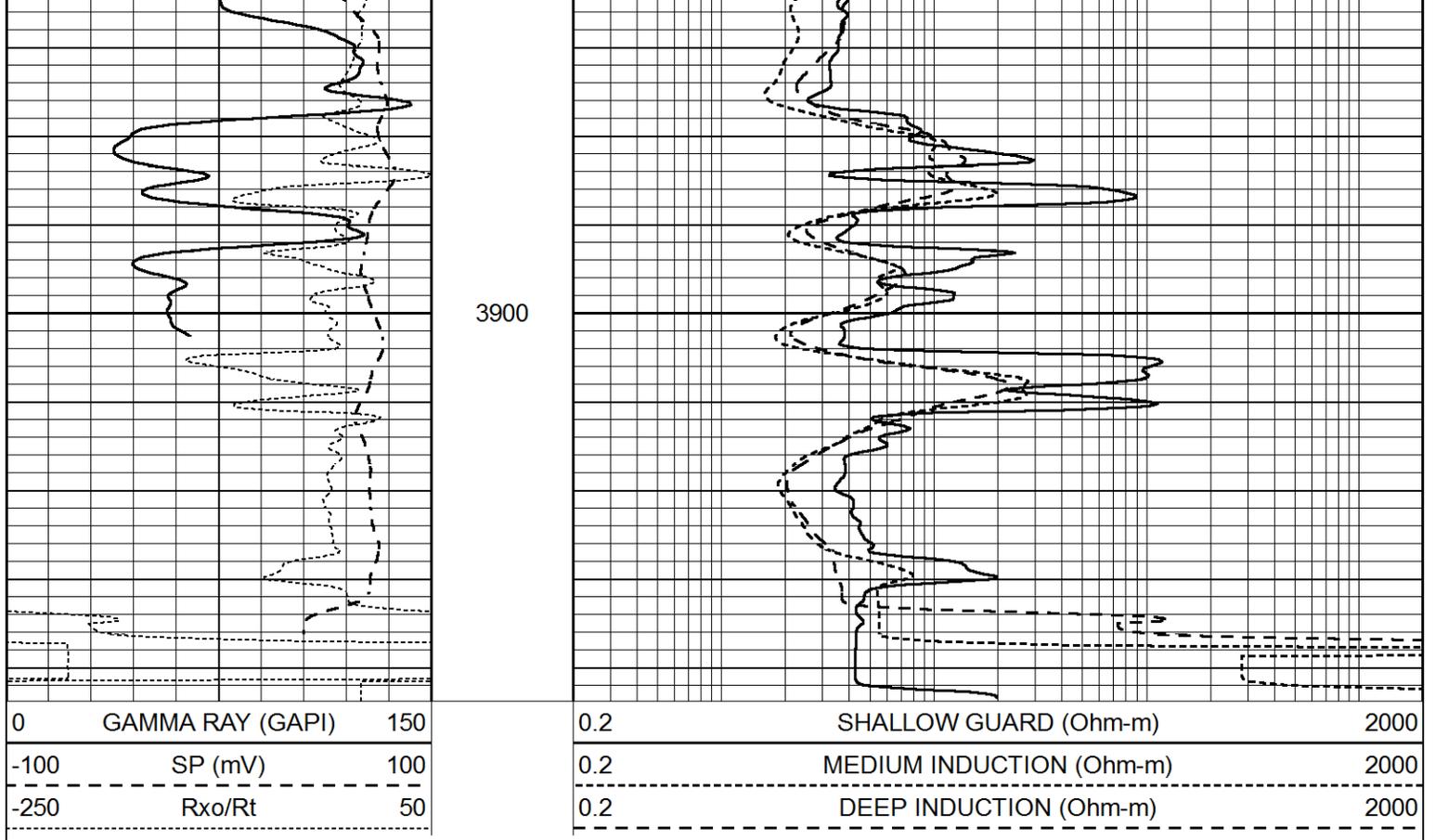


3750

3800

3850





Calibration Report

Database File 6070pe.db
 Dataset Pathname pass2.1
 Dataset Creation Tue Dec 21 15:36:22 2021

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Tue Feb 19 11:44:18 2019
 Downhole Cal Performed: Tue Feb 19 11:44:24 2019
 After Survey Verification Performed: Tue Feb 19 11:44:27 2019

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop	V	Air	Loop	mmho/m	m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration

	Readings			References			Results	
	Zero	Cal	mmho/m	Zero	Cal	mmho/m	m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification

Caliper (in)

After Survey Caliper Verification

Performed:

Reference

Reading

Caliper (in)

Compensated Neutron Calibration Report

Serial Number:
Tool Model:

080621PMC
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 Jan 19 17:50:08 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5300	GAPI/cps