



DUAL INDUCTION LOG

Company PICKRELL DRILLING COMPANY, INC.

Well SUTTON "C" #7

Field

County NESS

State KANSAS

Location: API #: 15-135-26112-0000

268' FSL & 1450' FWL

SEC 8 TWP 18S RGE 24W

Permanent Datum GROUND LEVEL Elevation 2310
Log Measured From KELLY BUSHING 7' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL/PE
MEL

Elevation

K.B. 2317
D.F. 2315
G.L. 2310

Date 8/11/21

Run Number ONE

Depth Driller 4450

Depth Logger 4452

Bottom Logged Interval 4450

Top Log Interval 00

Casing Driller 8 5/8" @ 220

Casing Logger 220

Bit Size 7 7/8

Type Fluid in Hole CHEMICAL MUD CHLORIDES 5000 PPM

Density / Viscosity 9.1/55

pH / Fluid Loss 10.0/9.2

Source of Sample FLOWLINE

Rm @ Meas. Temp .90 @ 86F

Rmf @ Meas. Temp .67 @ 86F

Rmc @ Meas. Temp 1.08 @ 86F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .64 @ 120F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 1111

Maximum Recorded Temperature 120F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By JASON CAPPELLUCCI

Witnessed By AARON YOUNG

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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

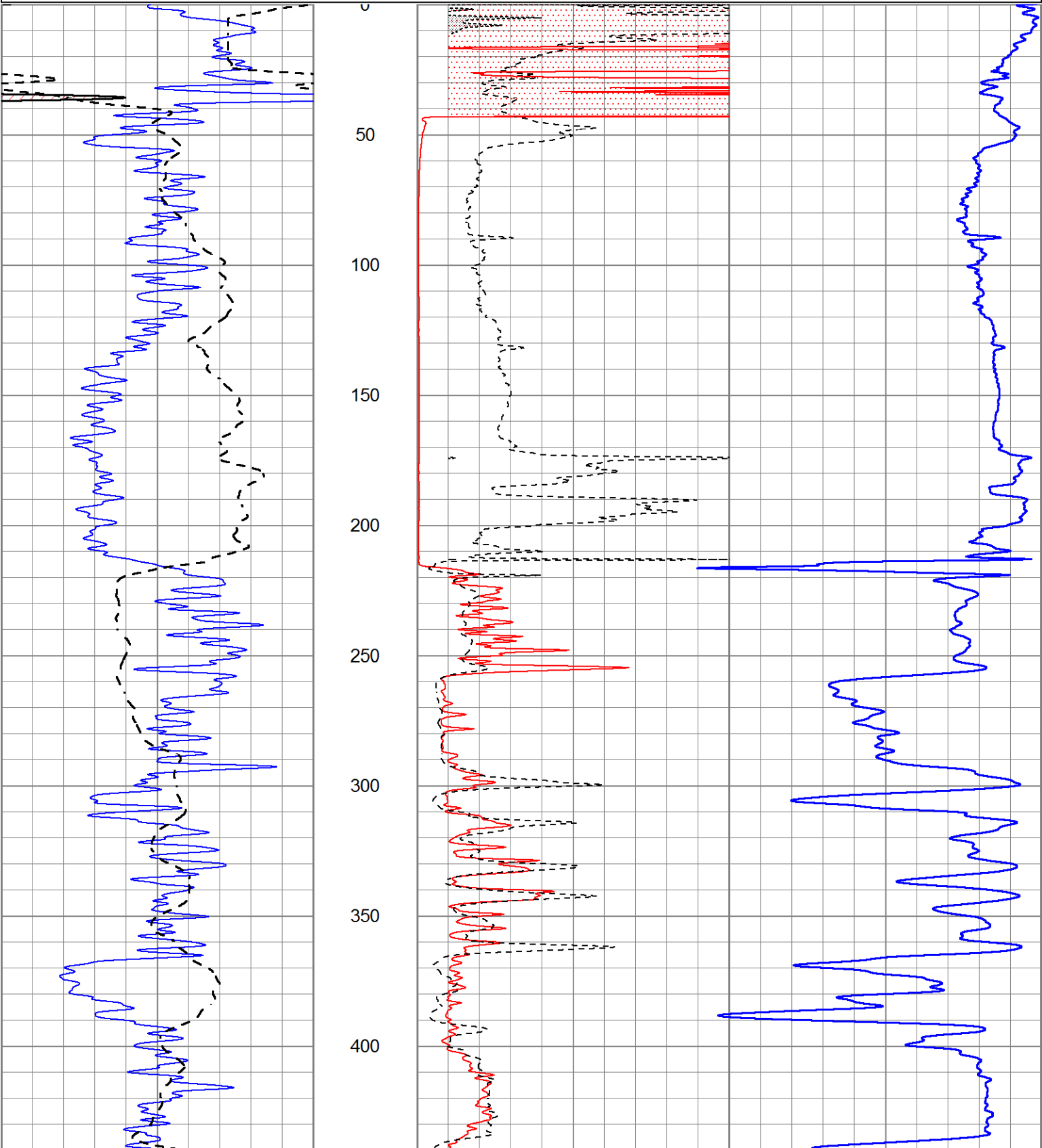
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
NESS CITY, KS. - NORTH TO RD. 160 - 5 3/4 WEST - NORTH INTO



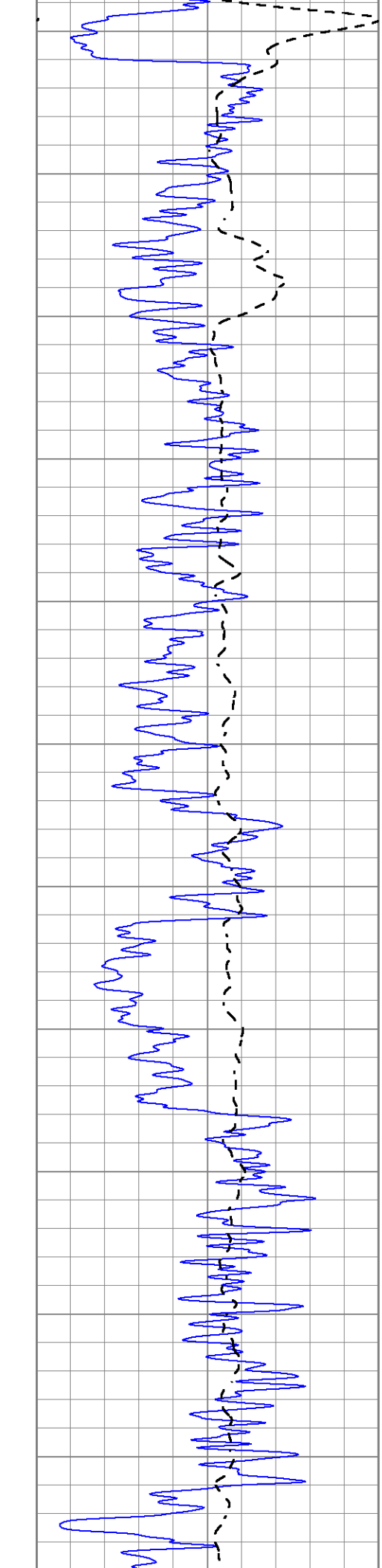
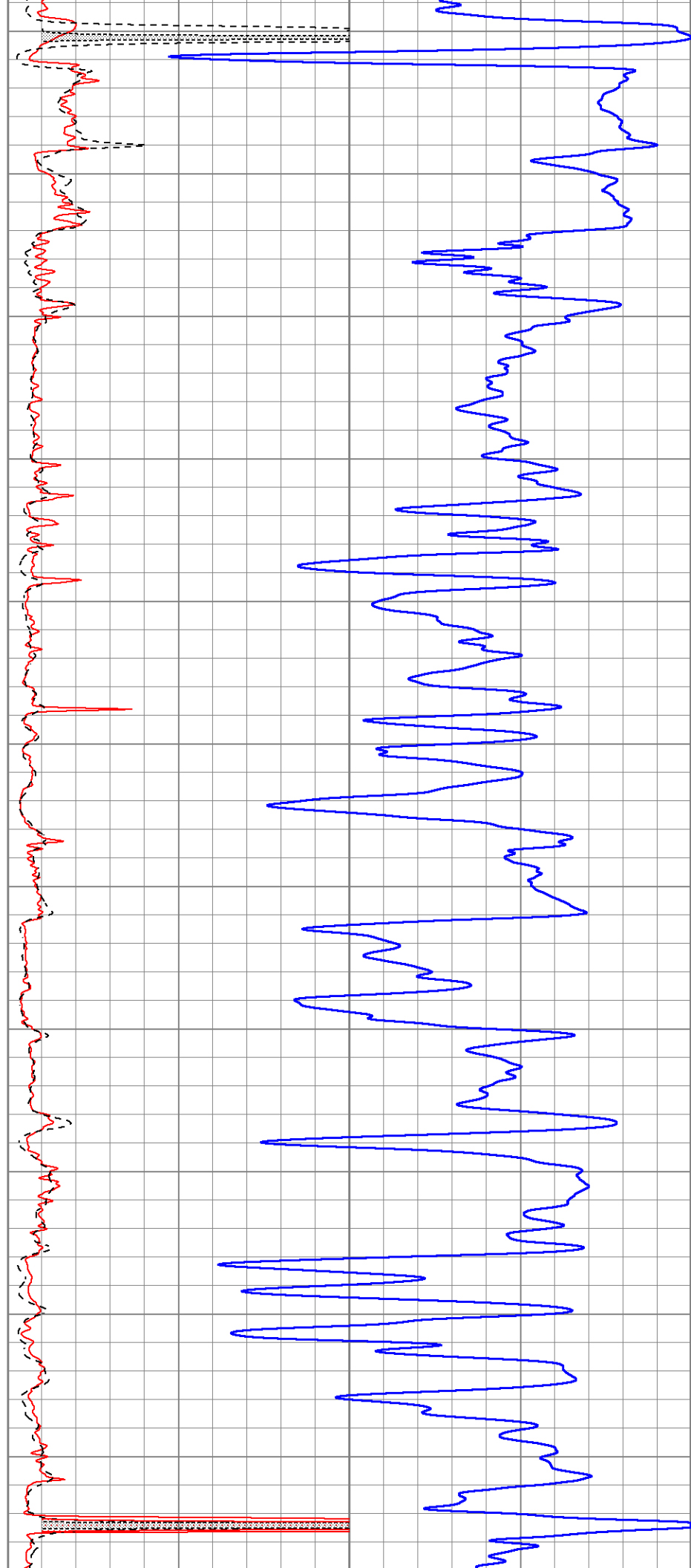
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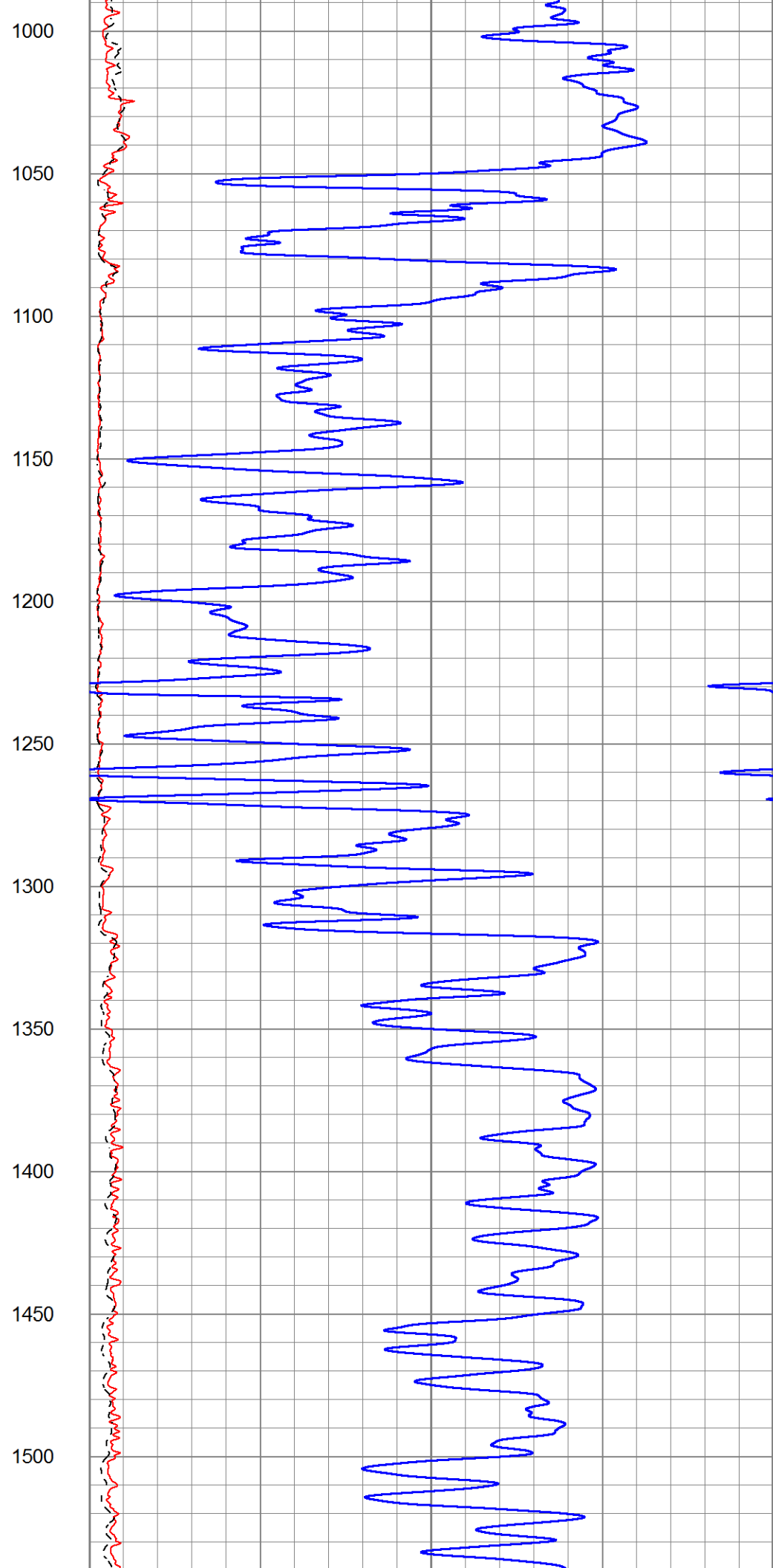
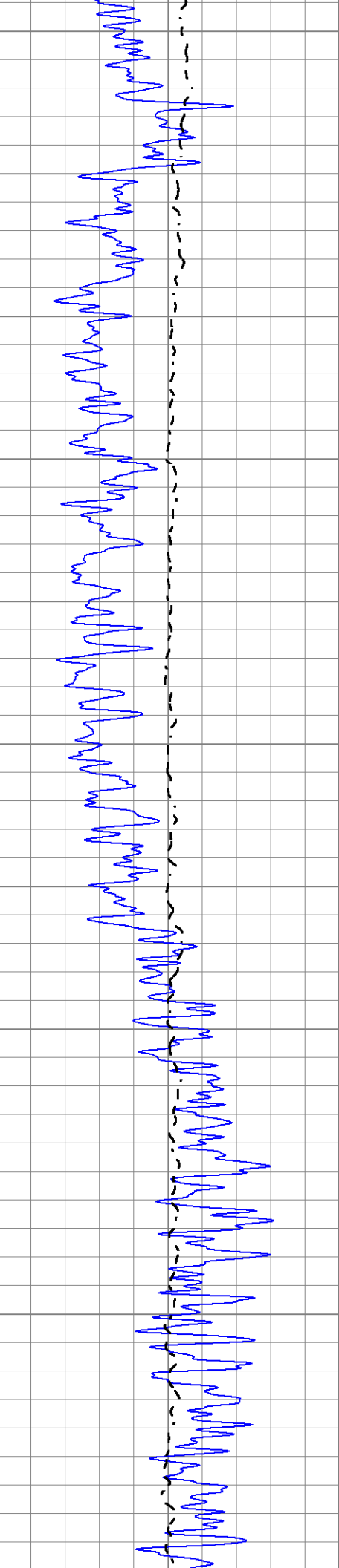
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Dataset Pathname	pass3.3
Presentation Format	_dil2
Dataset Creation	Thu Aug 12 00:41:36 2021
Charted by	Depth in Feet scaled 1:600

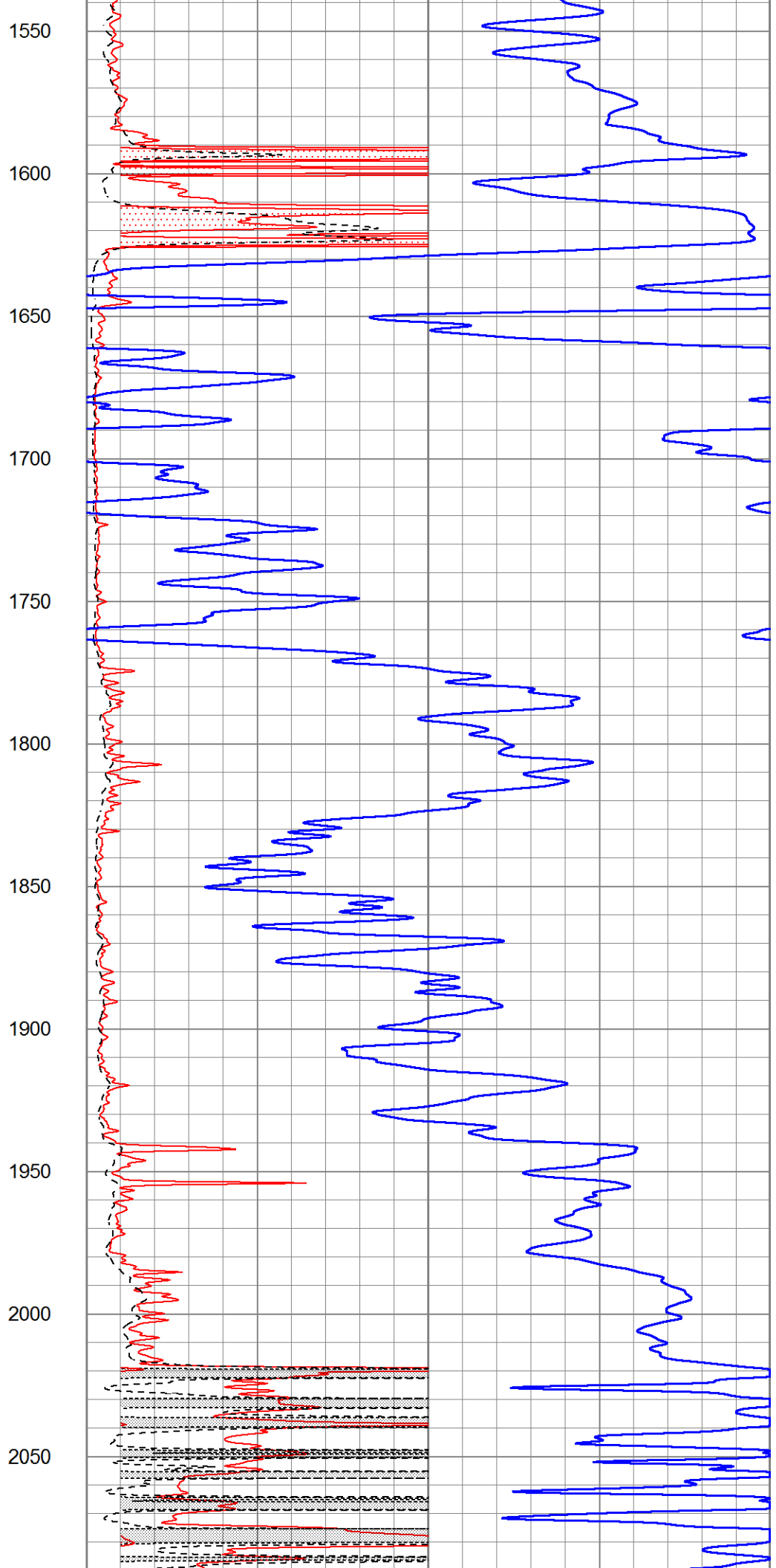
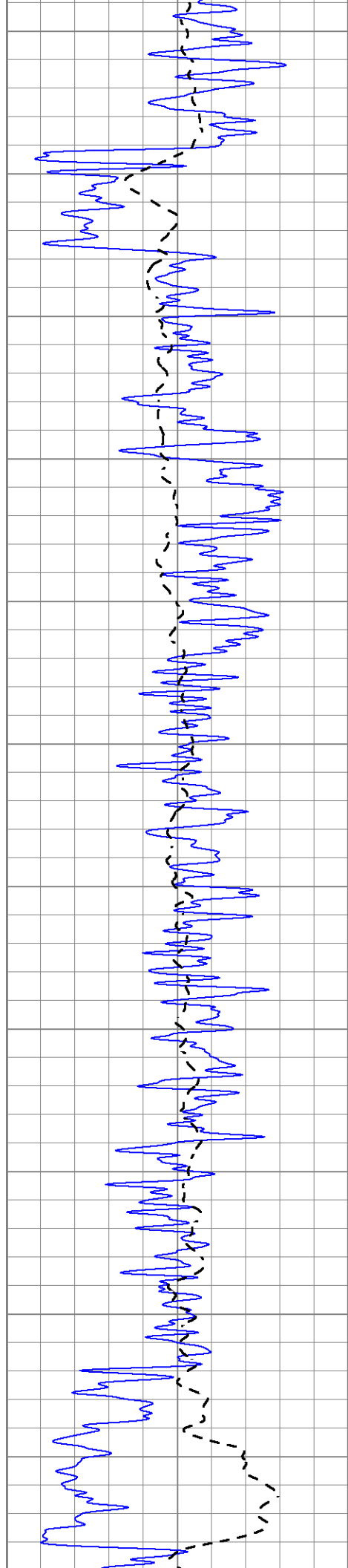
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-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500

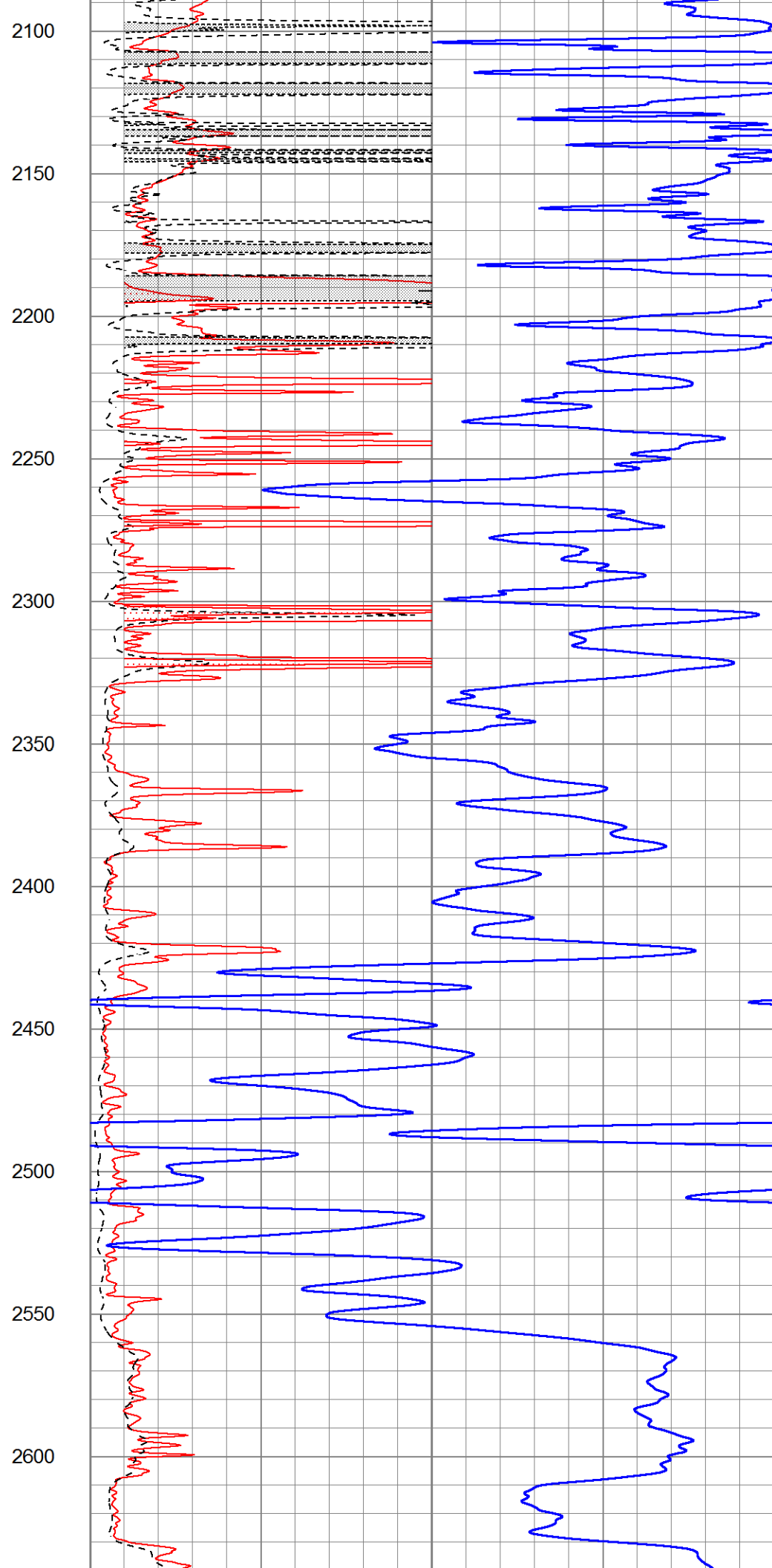
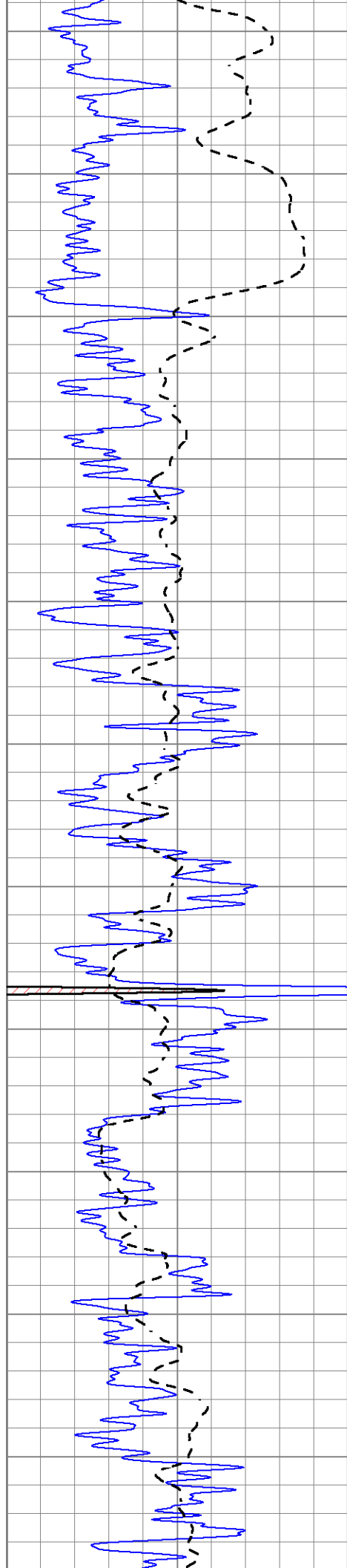


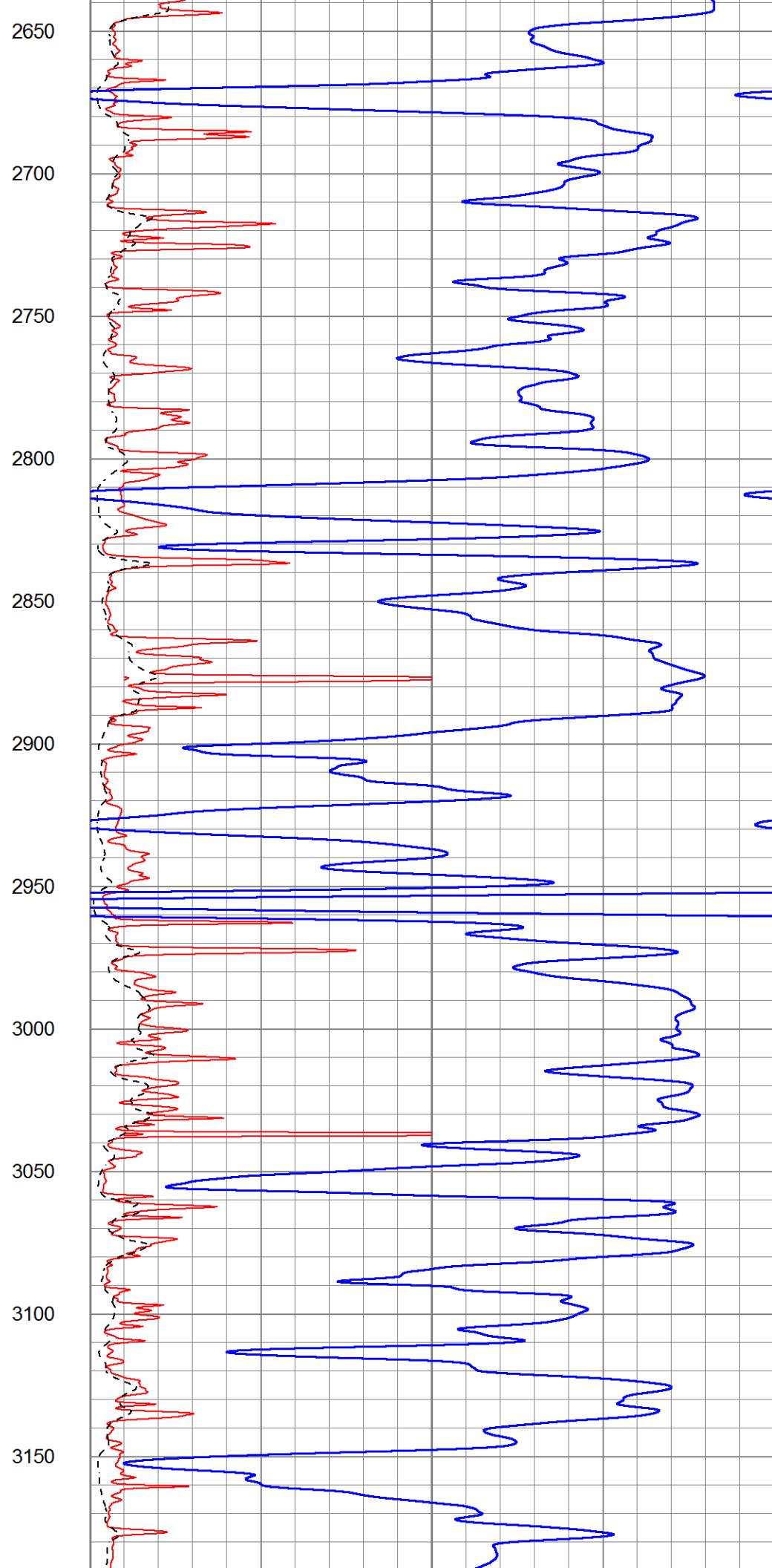
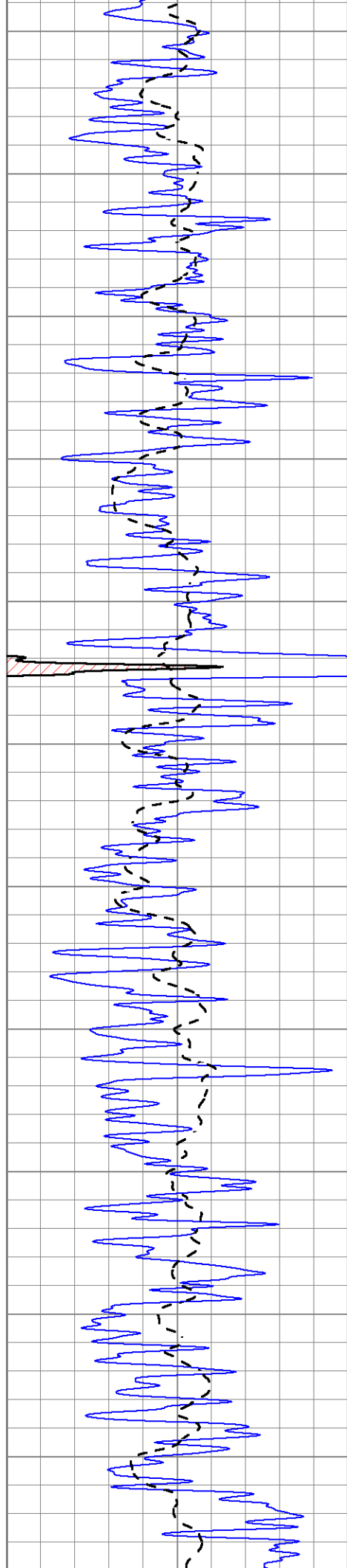
450
500
550
600
650
700
750
800
850
900
950

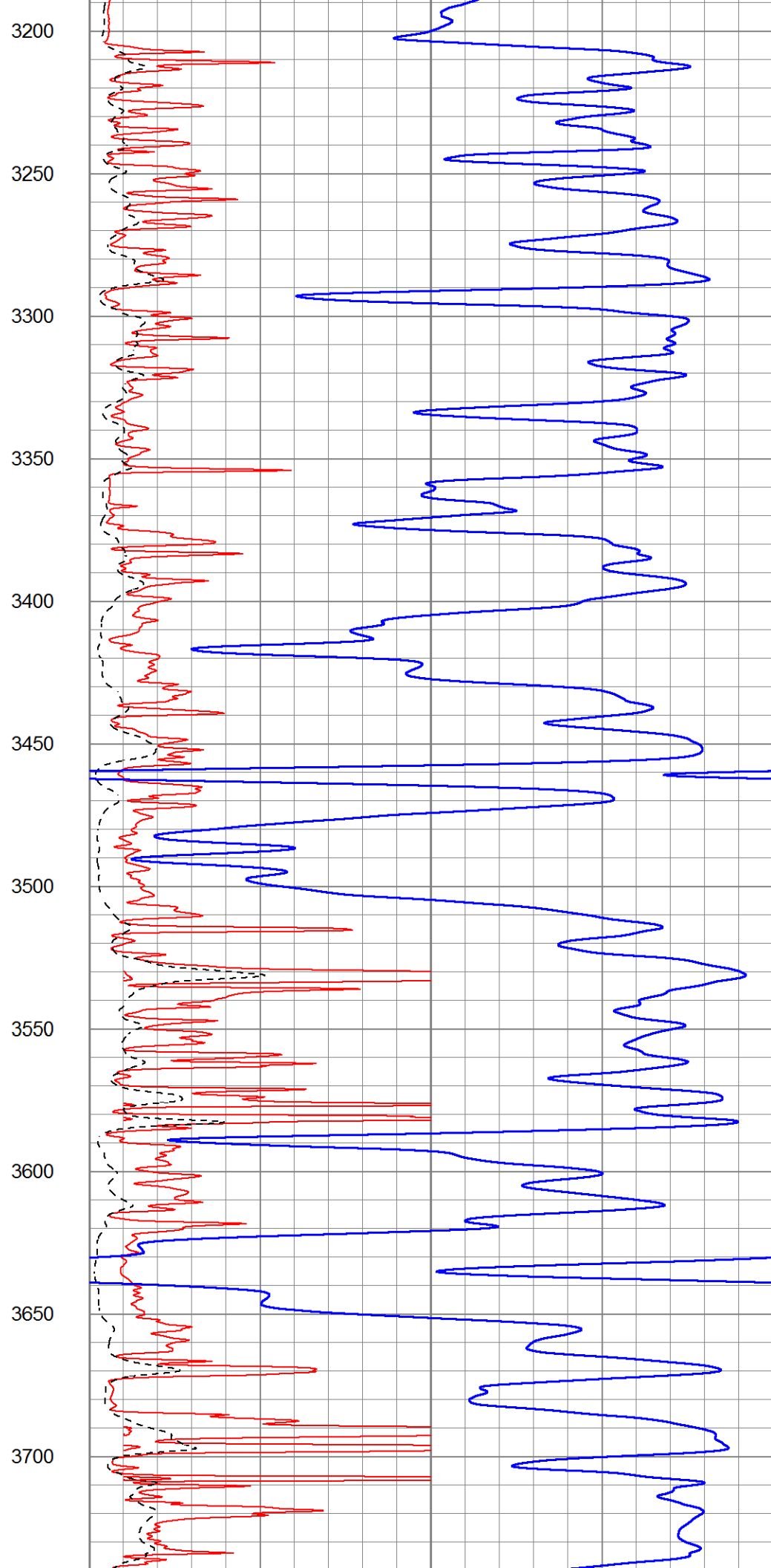
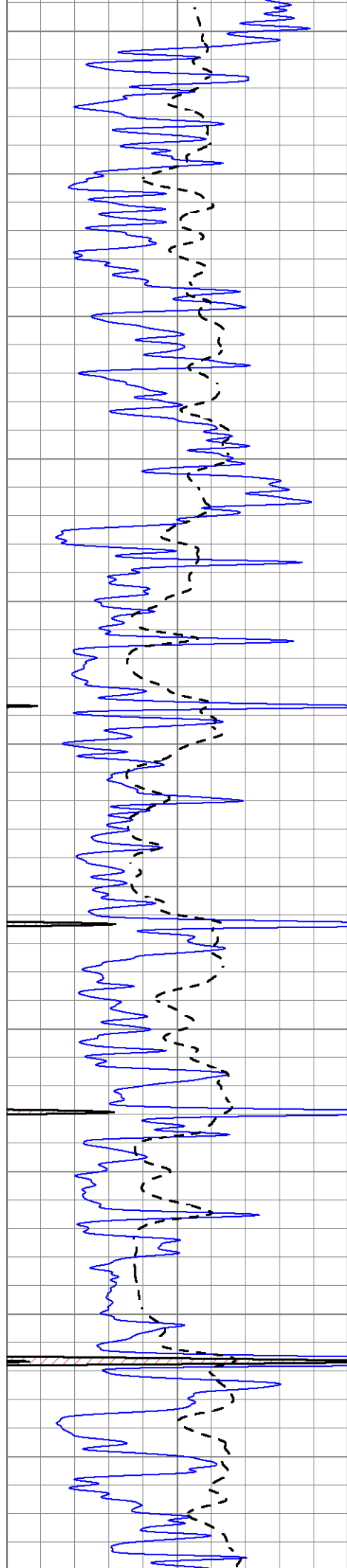


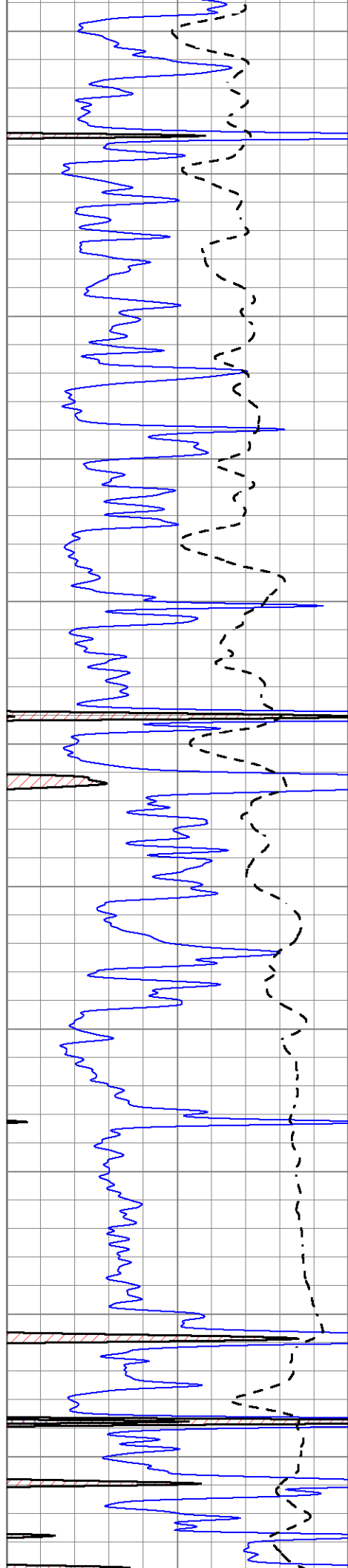












3750

3800

3850

3900

3950

4000

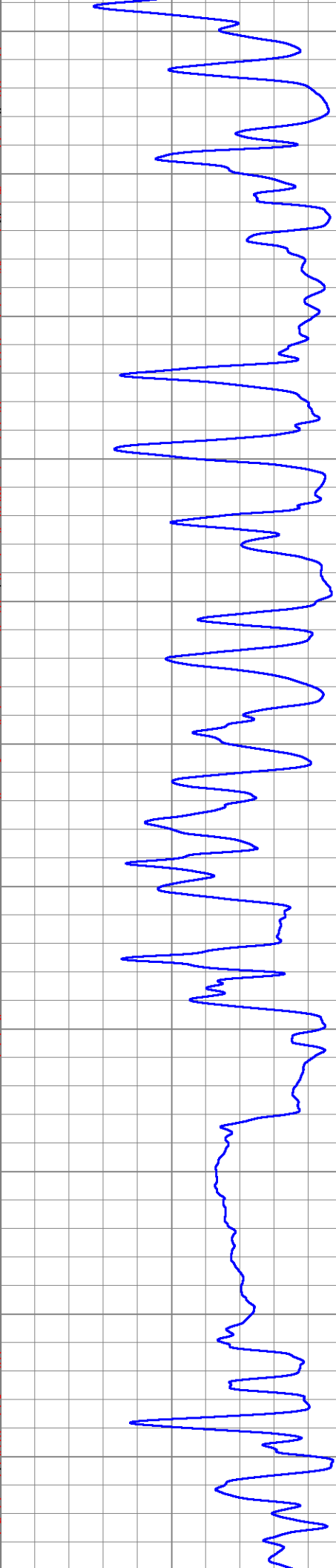
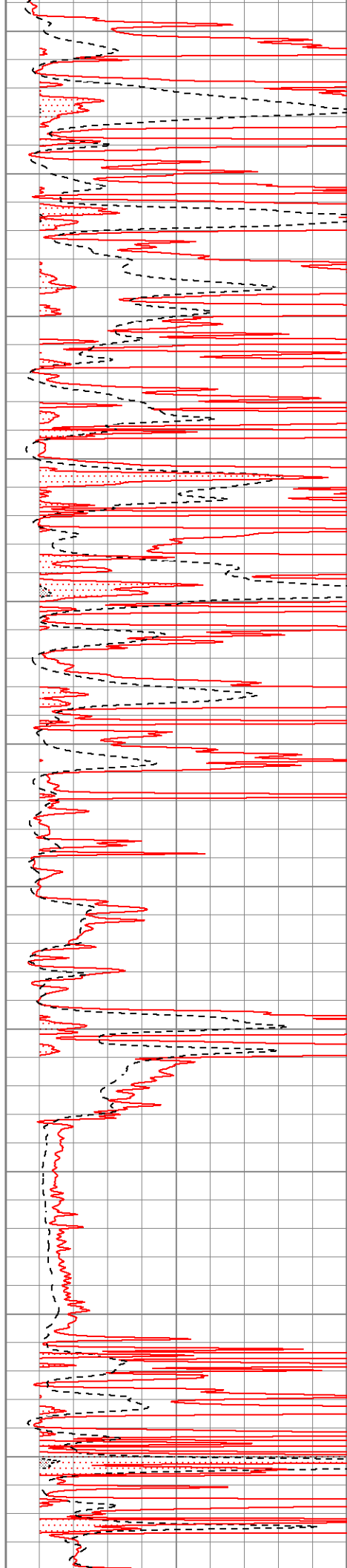
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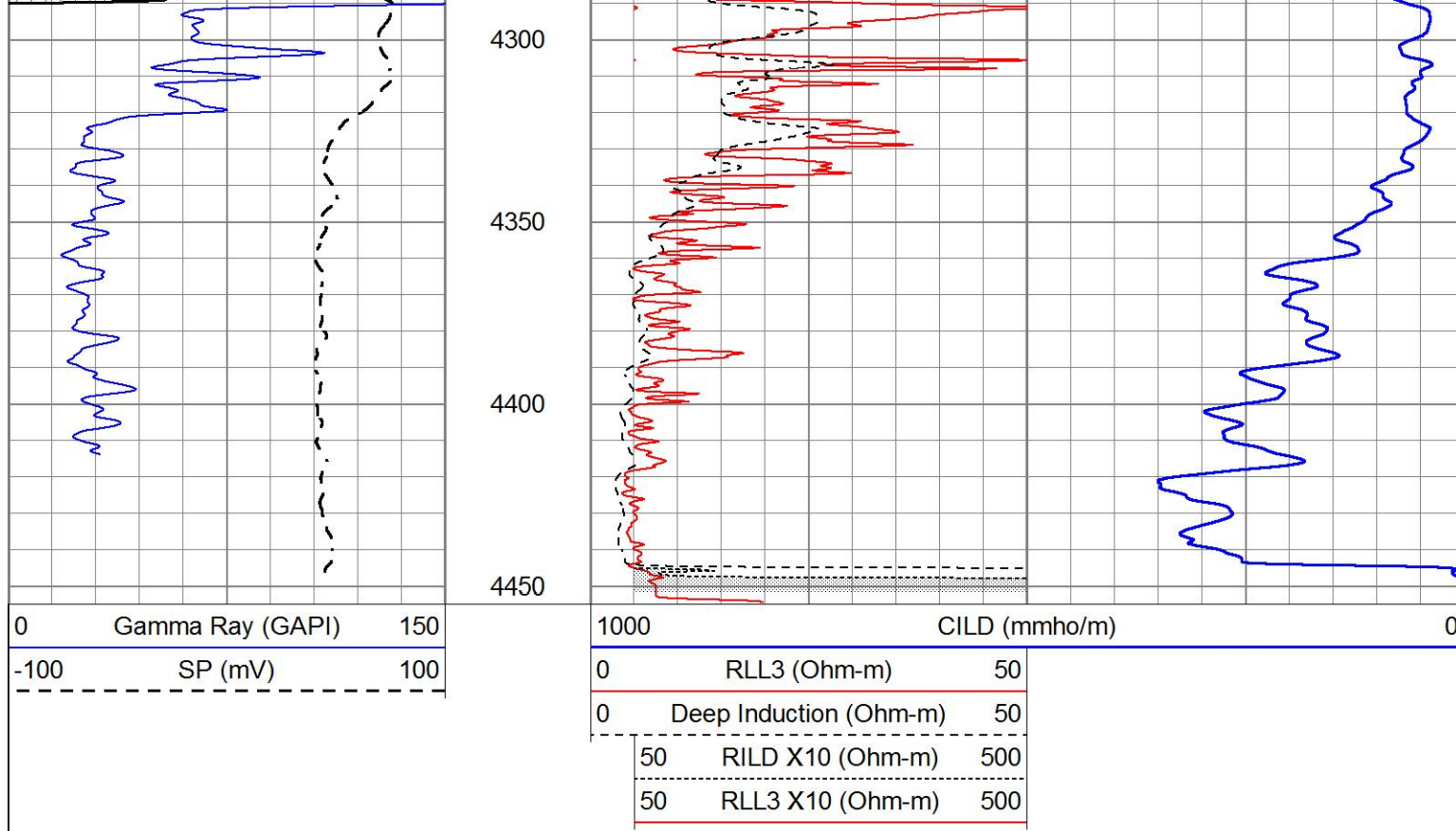
4100

4150

4200

4250

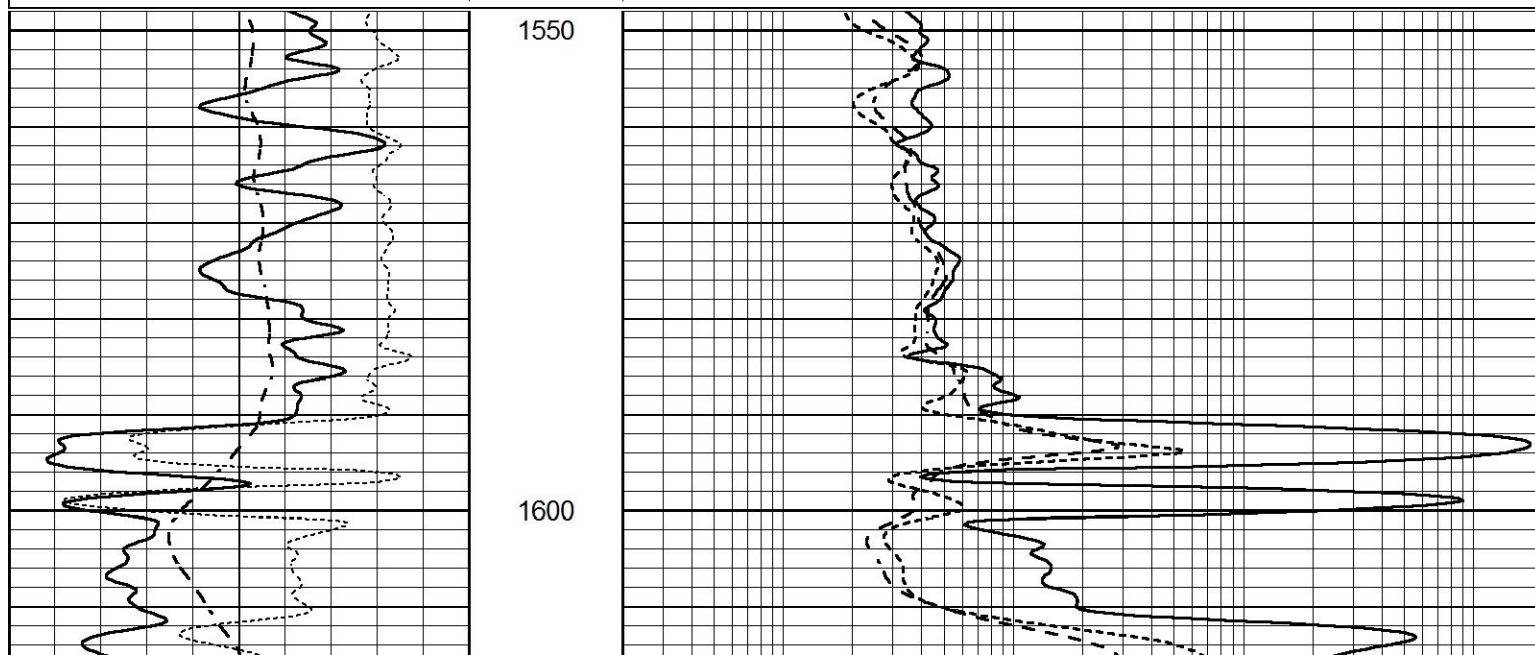


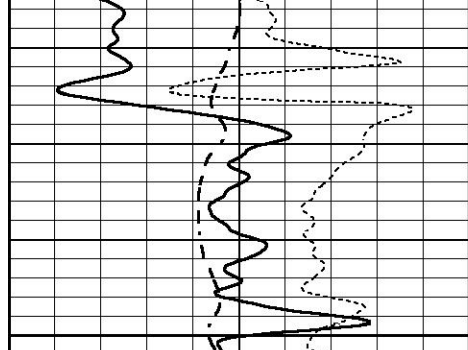


ANHYDRITE

Database File 5640pe.db
 Dataset Pathname pass3.2
 Presentation Format _dil
 Dataset Creation Wed Aug 11 23:59:14 2021
 Charted by Depth in Feet scaled 1:240

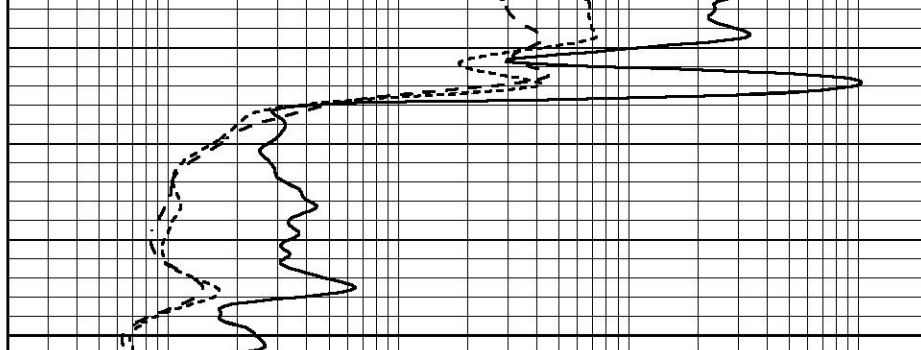
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000





1650

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

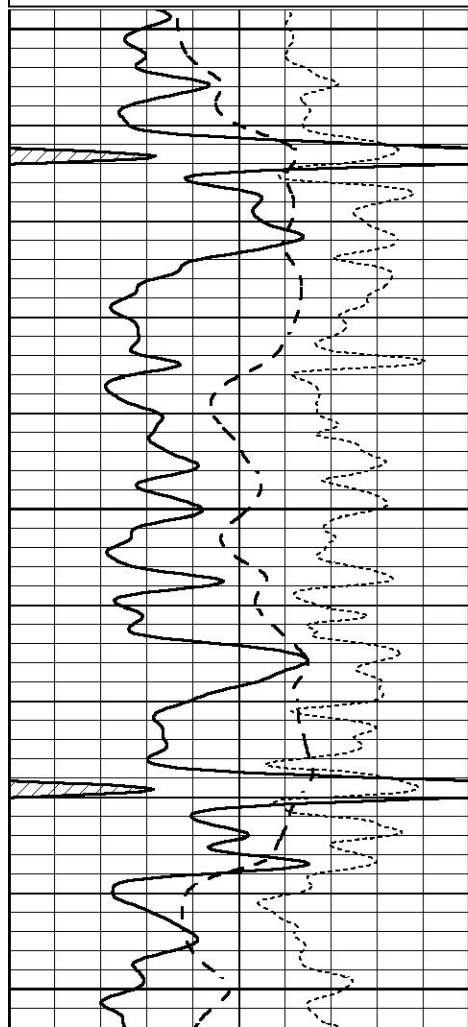


MAIN SECTION

Database File 5640pe.db
 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Wed Aug 11 23:41:44 2021
 Charted by Depth in Feet scaled 1:240

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

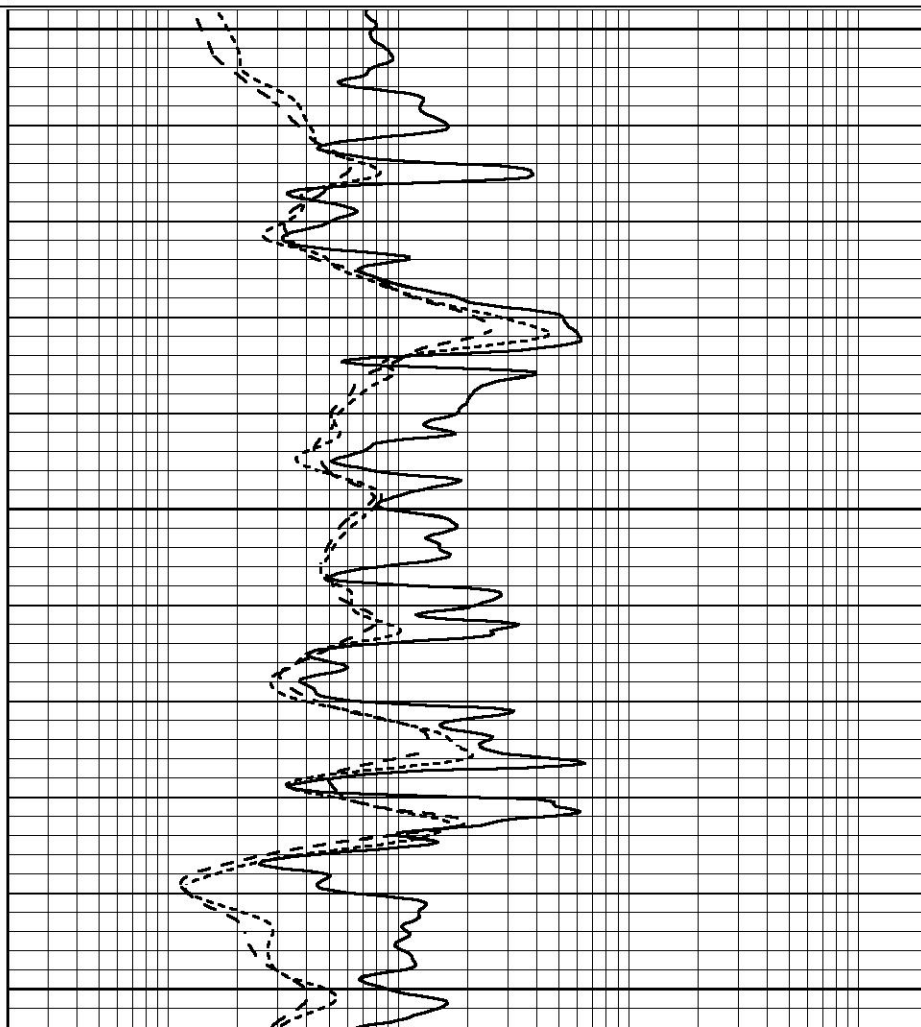
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

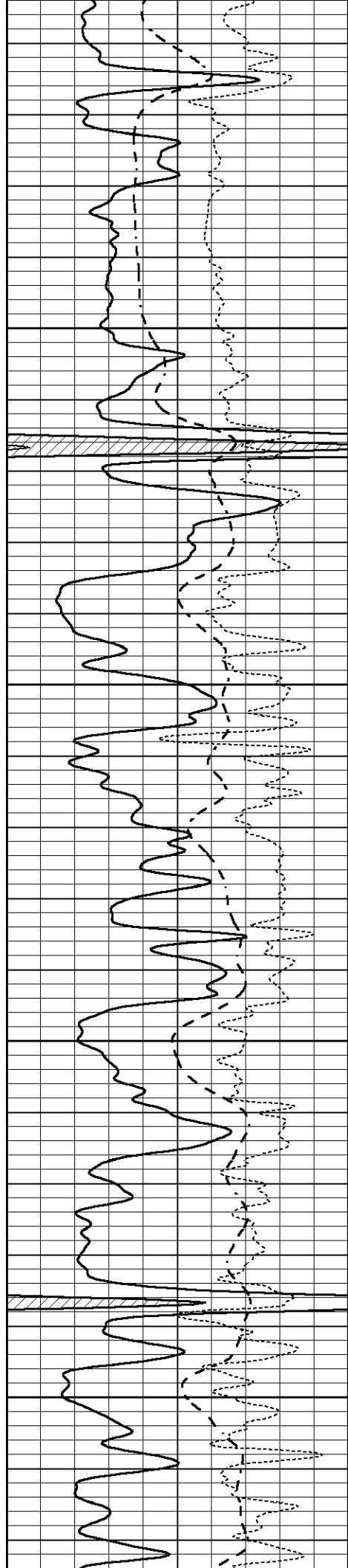


3500

3550

3600



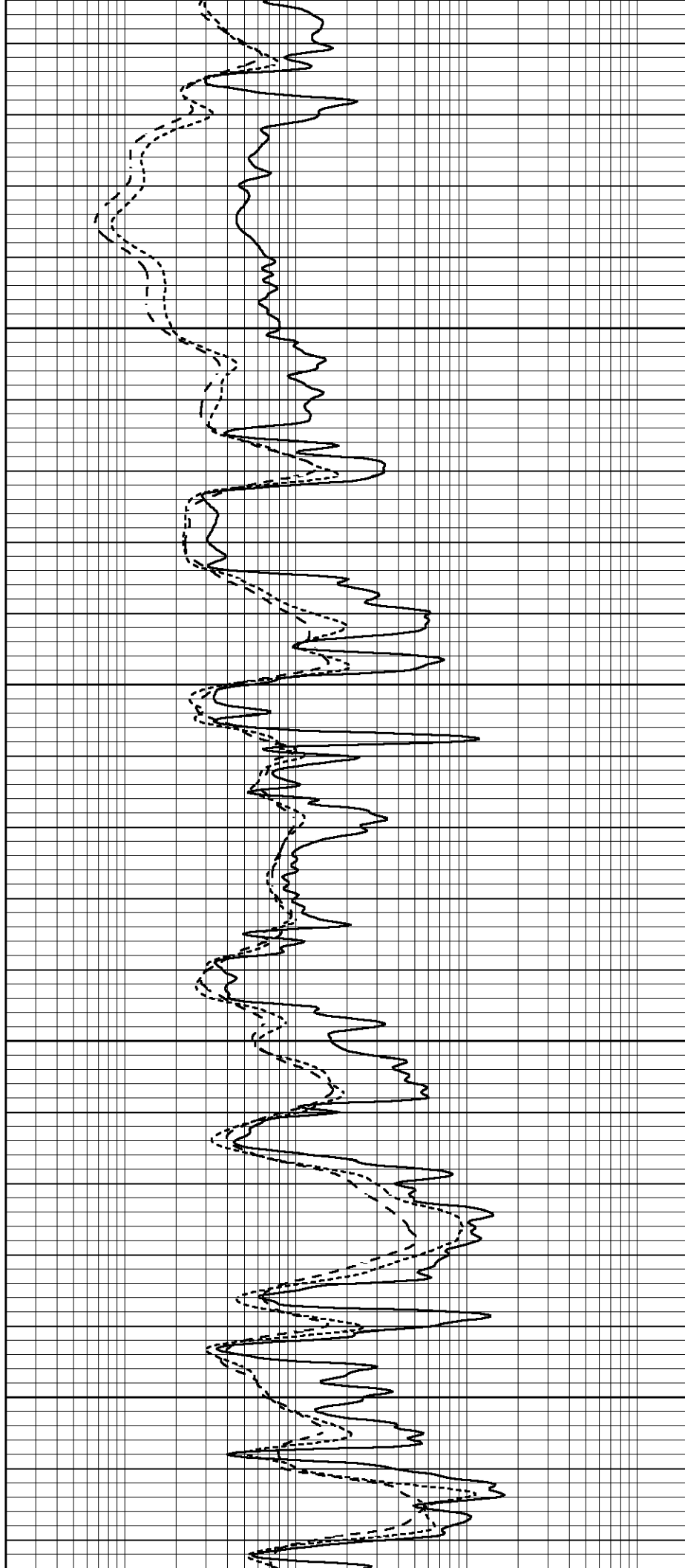


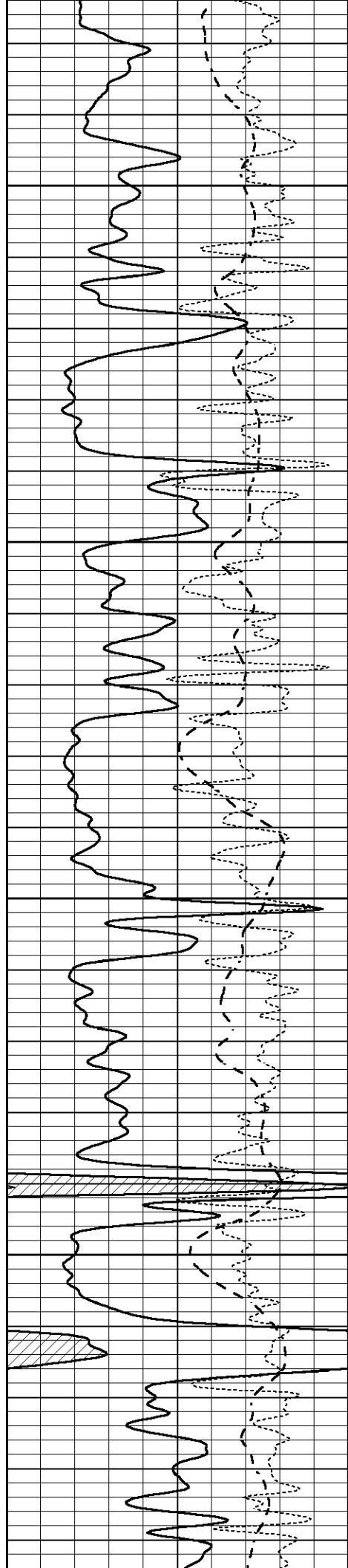
3650

3700

3750

3800



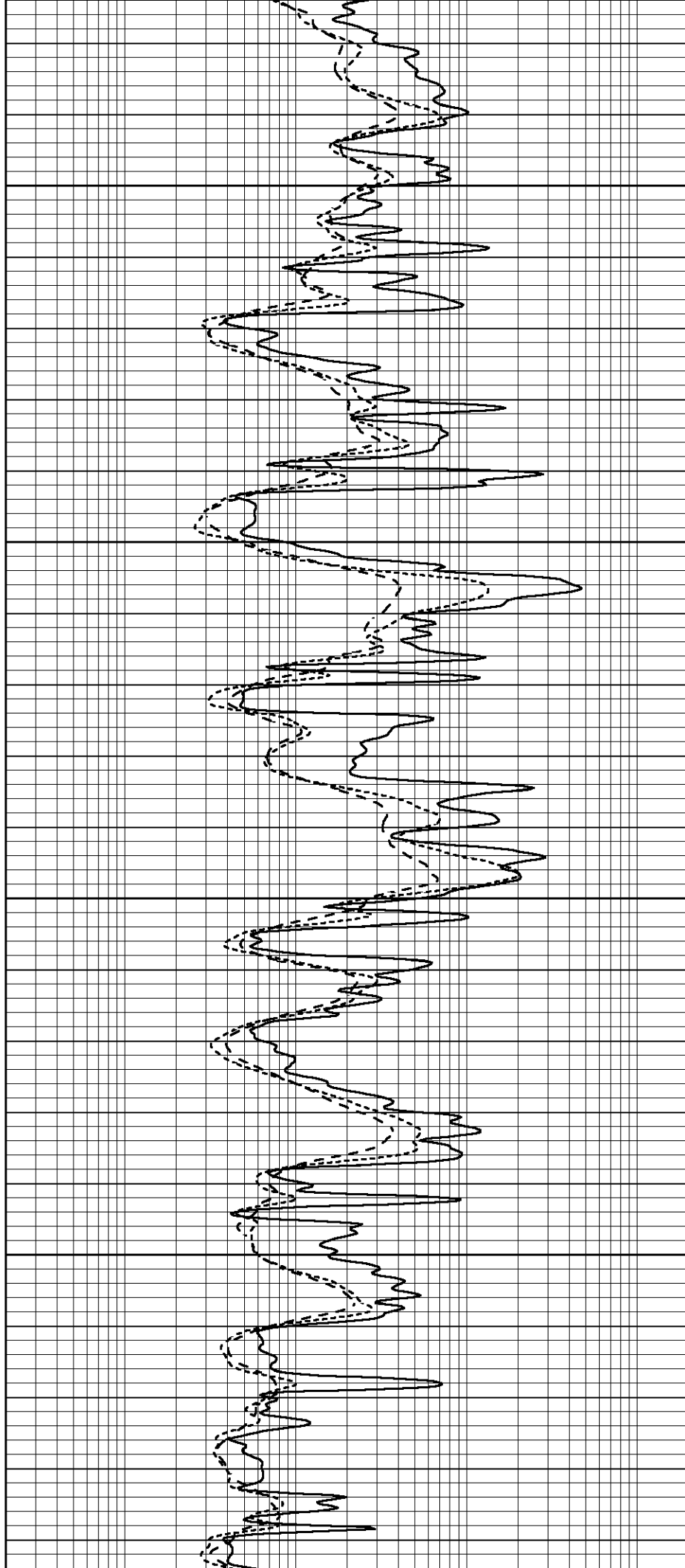


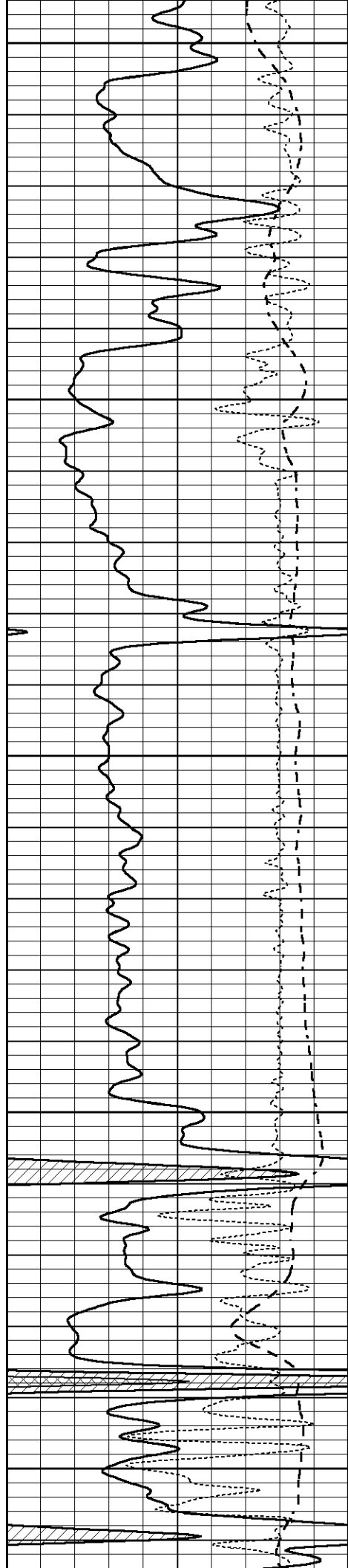
3850

3900

3950

4000





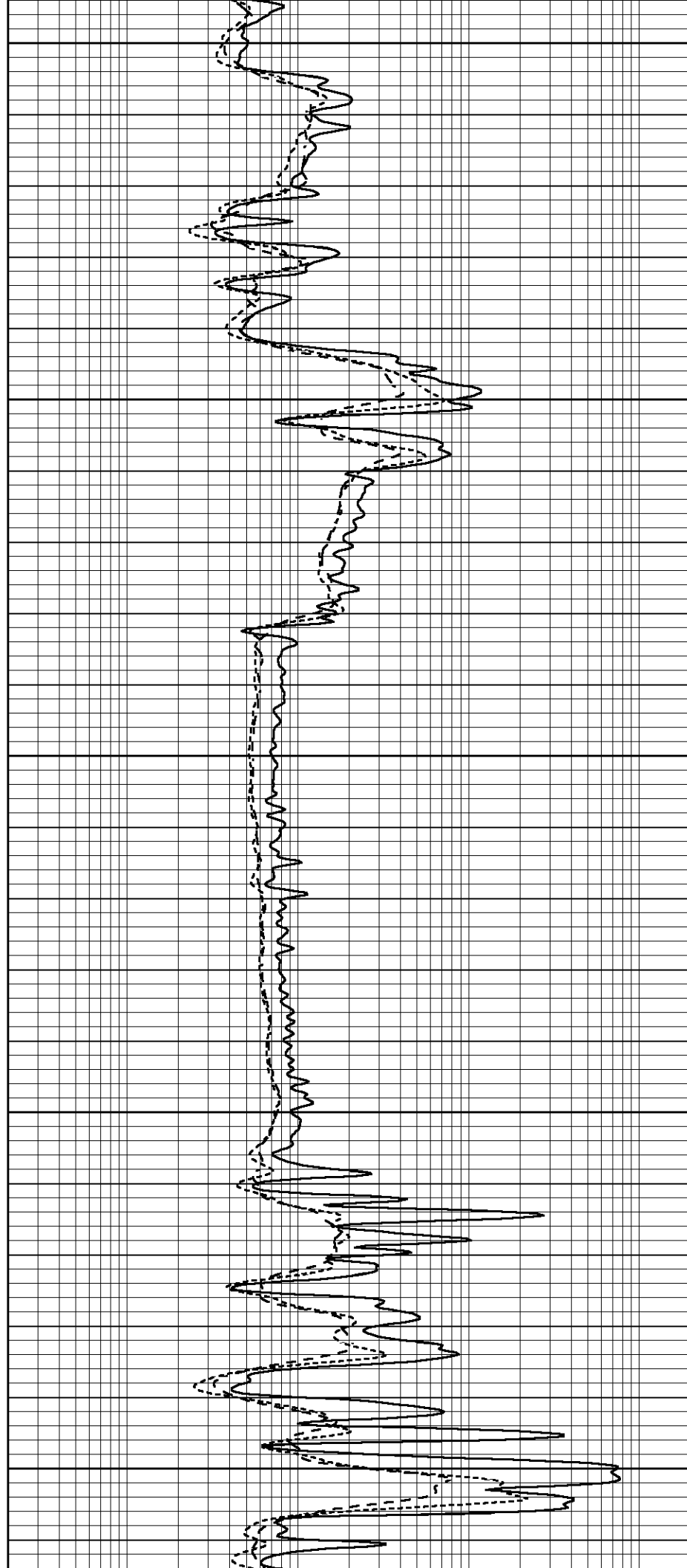
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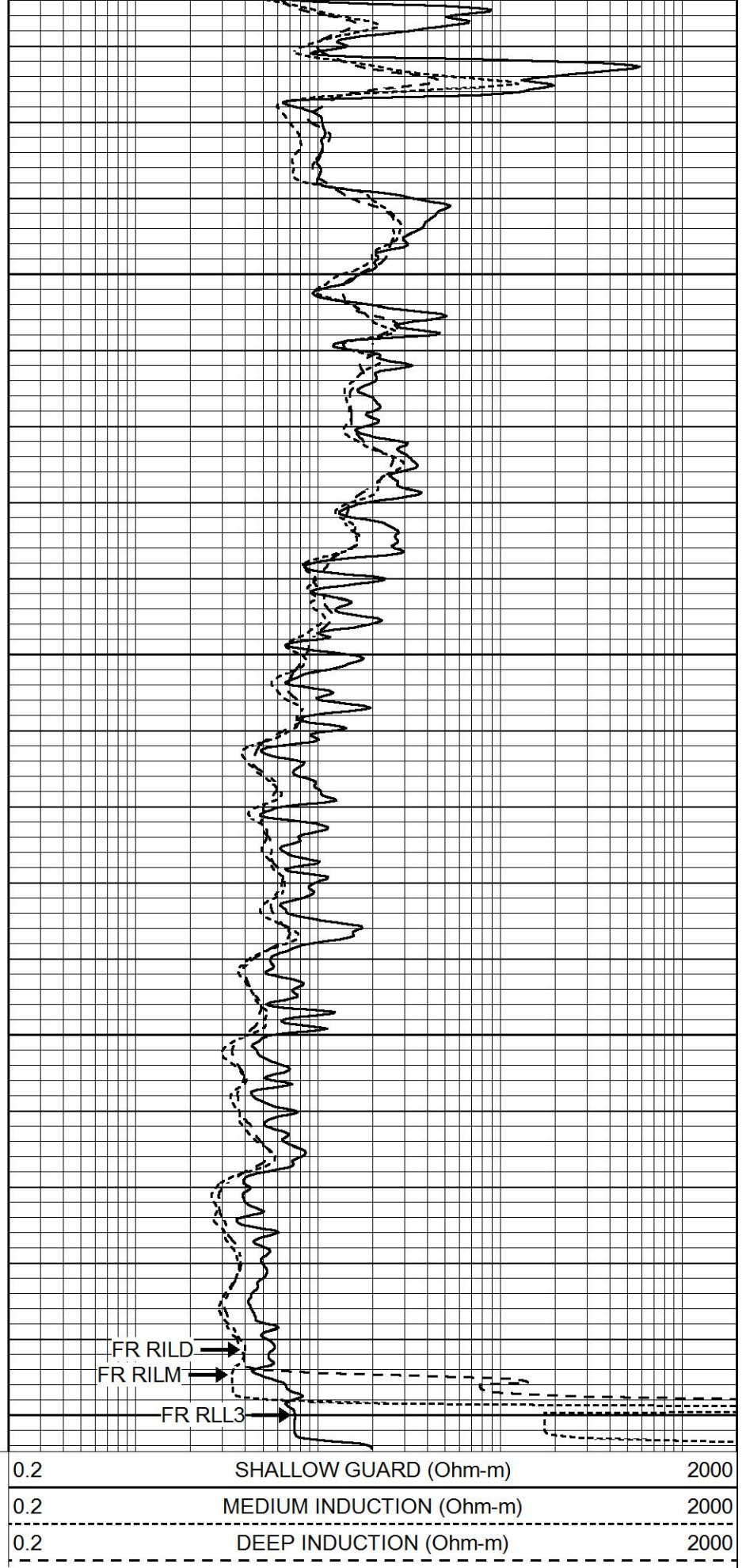
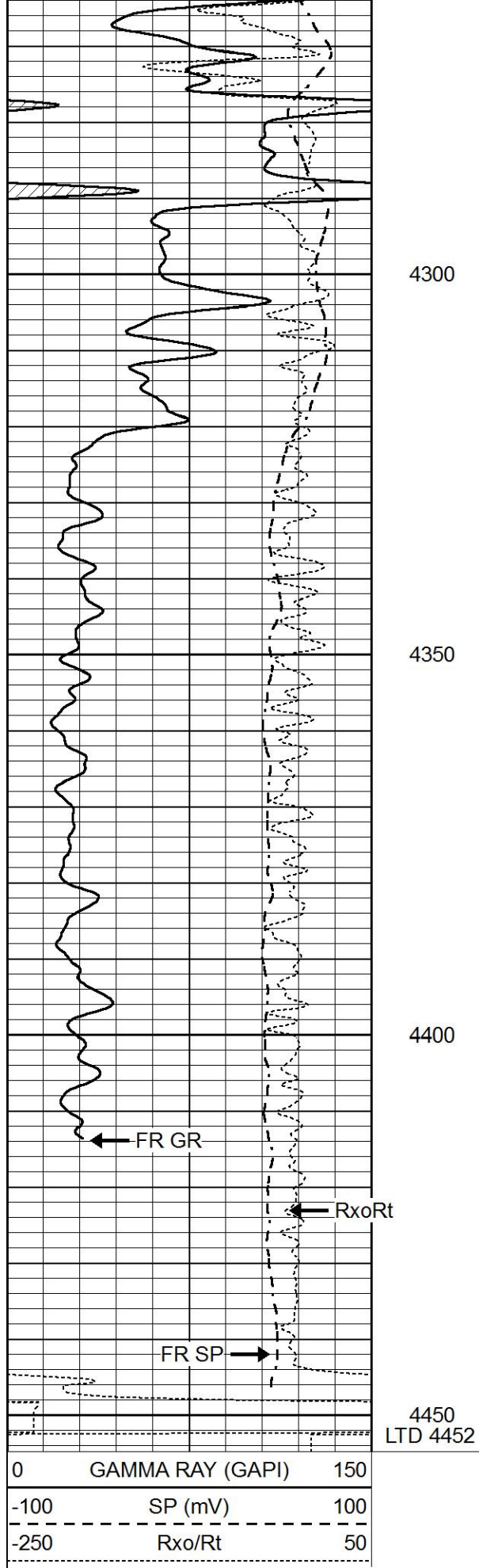
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4150

4200

4250





REPEAT SECTION

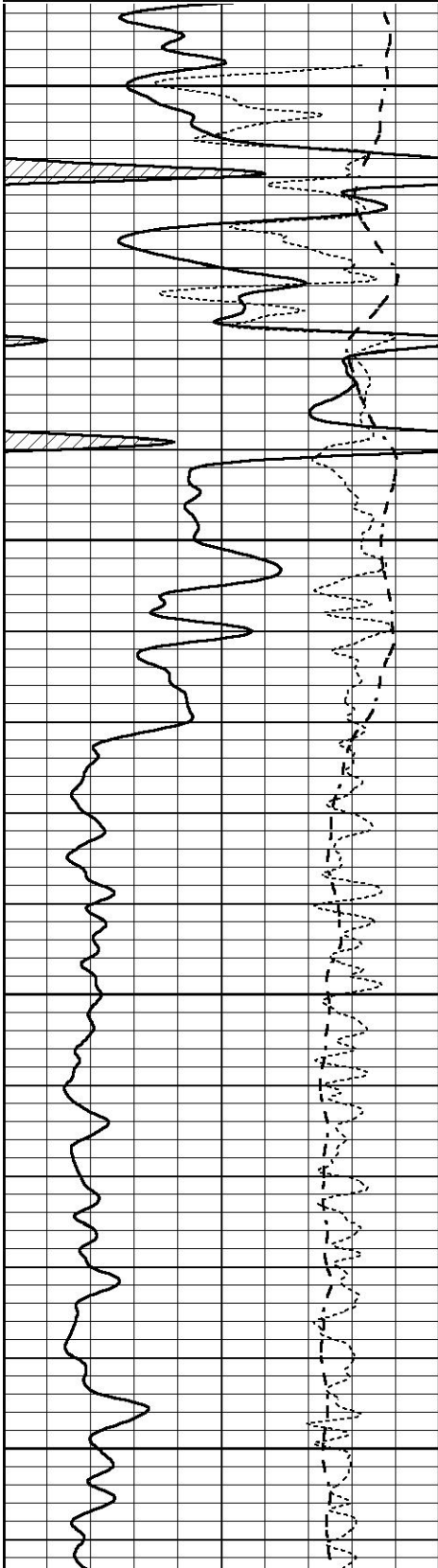


REPEAT SECTION

Database File 5640pe.db
Dataset Pathname pass2.1
Presentation Format _dil
Dataset Creation Wed Aug 11 23:34:44 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

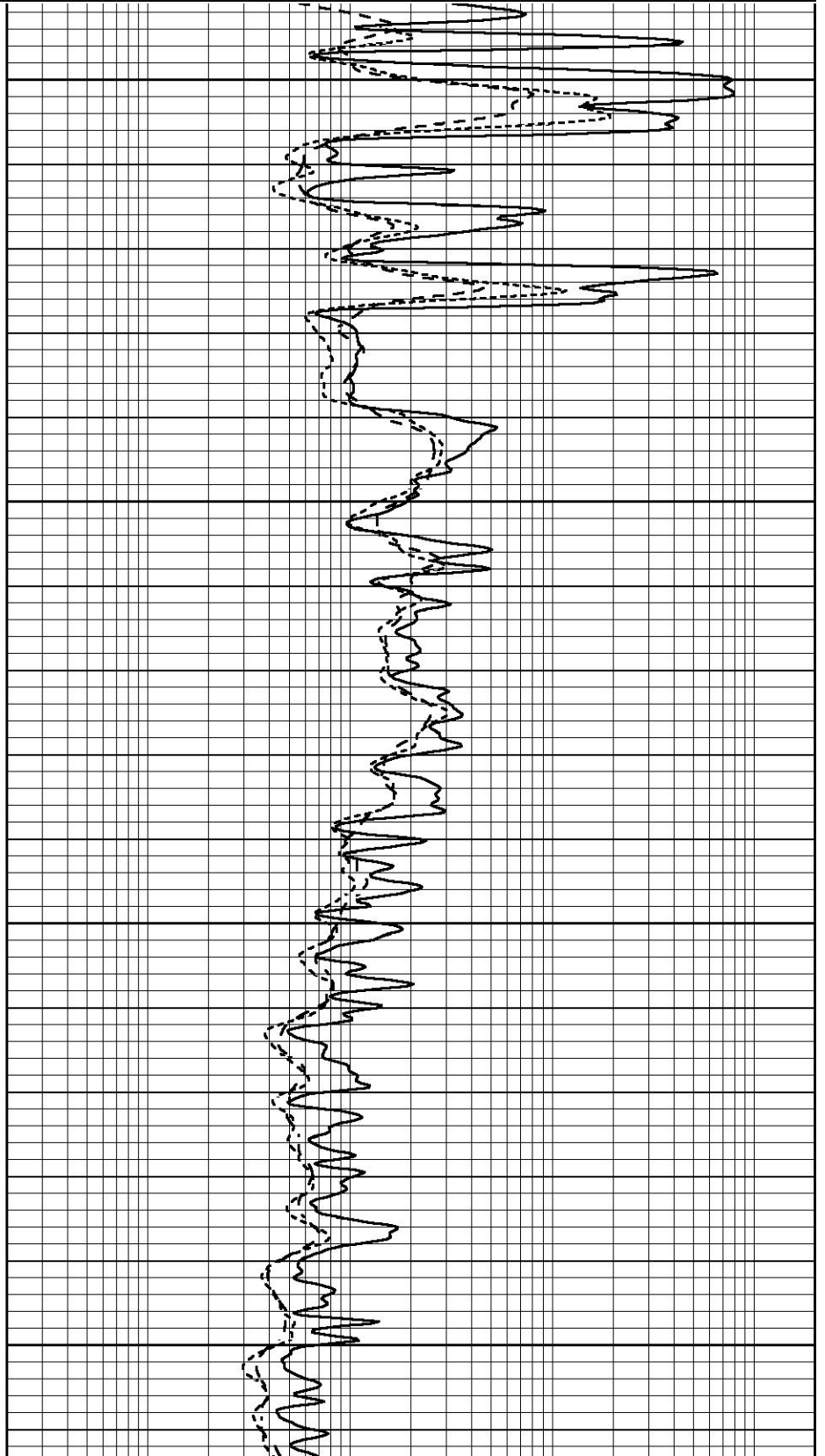


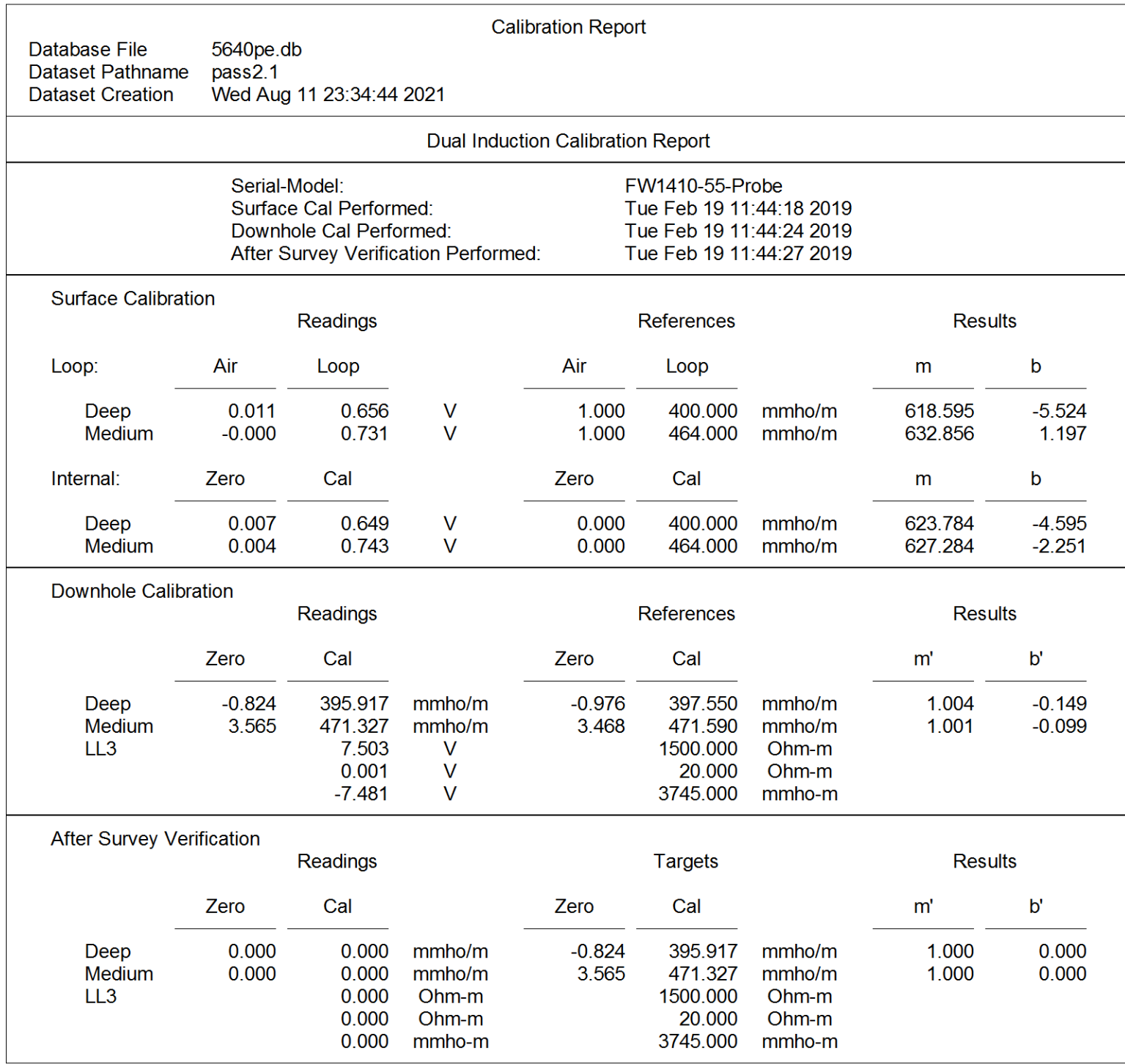
4250

4300

4350

4400





Litho Density Calibration Report

Master Calibration

Performed: Wed Dec 02 12:04:44 2020

	Background	Aluminum	Magnesium		
Window 1	595.38	5386.50	23898.92	cps	
Window 2	52.78	1248.21	5993.75	cps	
Window 4	251.36	1200.30	5155.55	cps	
Window 5	545.15	9066.30	17240.12	cps	
Window 6	43.35	1491.73	2929.24	cps	
Window 8	258.76	2917.82	5450.26	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8726	SS Alpha:	: -0.7656	LS CPE:	: 1.0742
LS Beta:	: 127345.0723	SS Beta:	: 20293.3834	SS CPE:	: 1.5427

Before Survey Background Counts Verification

Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

After Survey Background Counts Verification

Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

Lithodensity Caliper Calibration

Performed: Wed Dec 02 12:04:44 2020

Results	Readings	References (in)		Gain	Offset
Low	High	Low	High		
8005.3	11087.2	8.0	14.0	0.0	-7.5

Before Survey Caliper Verification

Performed:

Reference	Reading
_____	_____
Caliper (in)	

After Survey Caliper Verification

Performed:

Reference	Reading
_____	_____
Caliper (in)	

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 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	