



DUAL INDUCTION LOG

Company SOUTHWIND PETROLEUM, CORPORATION
Well CDK HOLDINGS, LLC. #16-2
Field DILLWIN
County STAFFORD State KANSAS

Location: API #: 15-185-24069-0000
1025' FSL & 1615' FWL
Permanent Datum GROUND LEVEL Elevation 1974
Log Measured From KELLY BUSHING 11' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
MEL/SON
Elevation
K.B. 1985
D.F. 1983
G.L. 1974

Date	3/27/20		
Run Number	ONE		
Depth Driller	4280		
Depth Logger	4280		
Bottom Logged Interval	4278		
Top Log Interval	00		
Casing Driller	8 5/8" @ 417'		
Casing Logger	417'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8700 PPM	
Density / Viscosity	9.3/68		
pH / Fluid Loss	8.0/12.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.30 @ 65F		
Rmf @ Meas. Temp	0.22 @ 65F		
Rmc @ Meas. Temp	0.36 @ 65F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.16 @ 119F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	119F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	BOB WILLIAMS		

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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

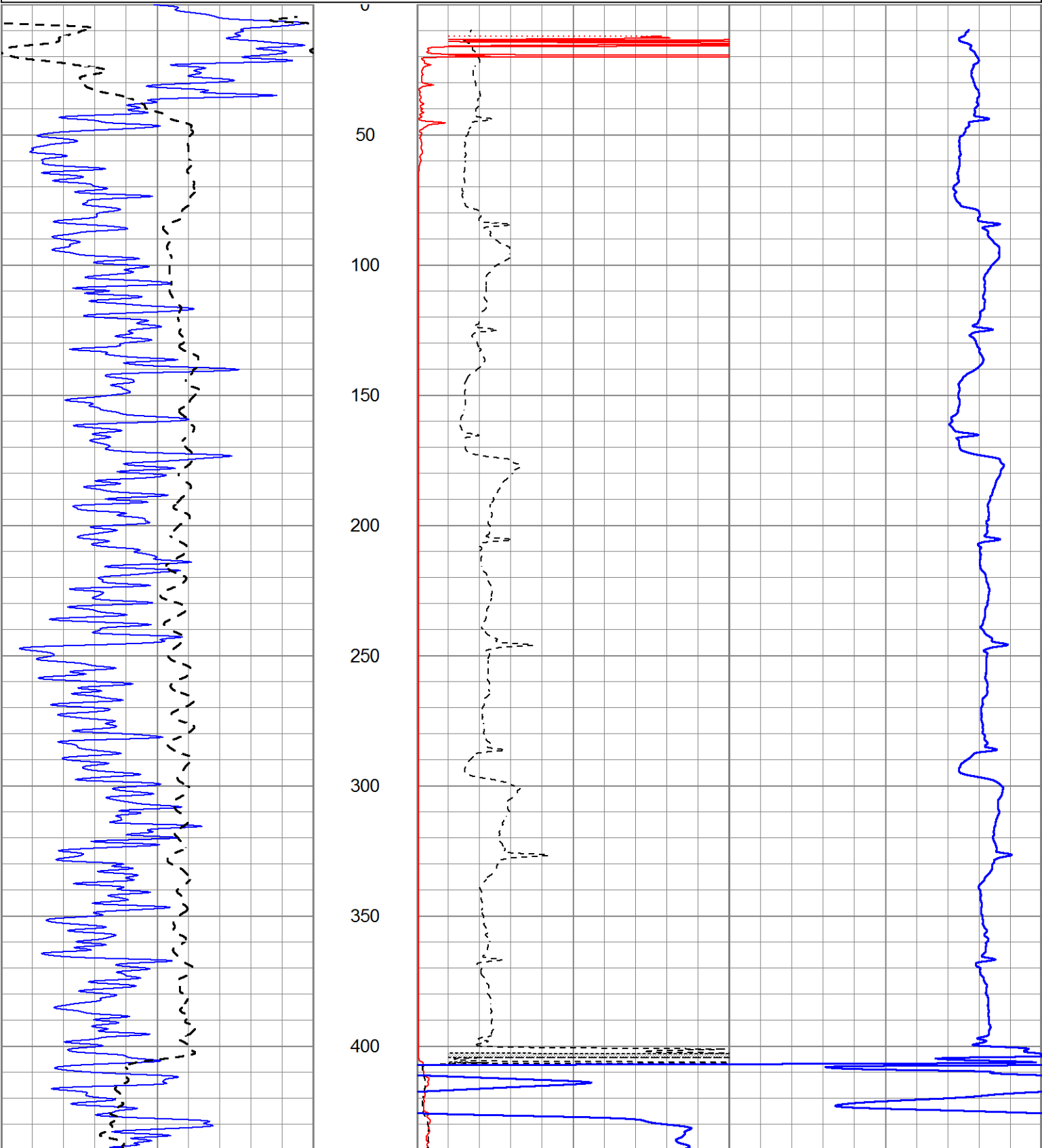
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
MACKSVILLE, KS. - EAST TO RD. 70 - 1/4 NORTH - EAST INTO

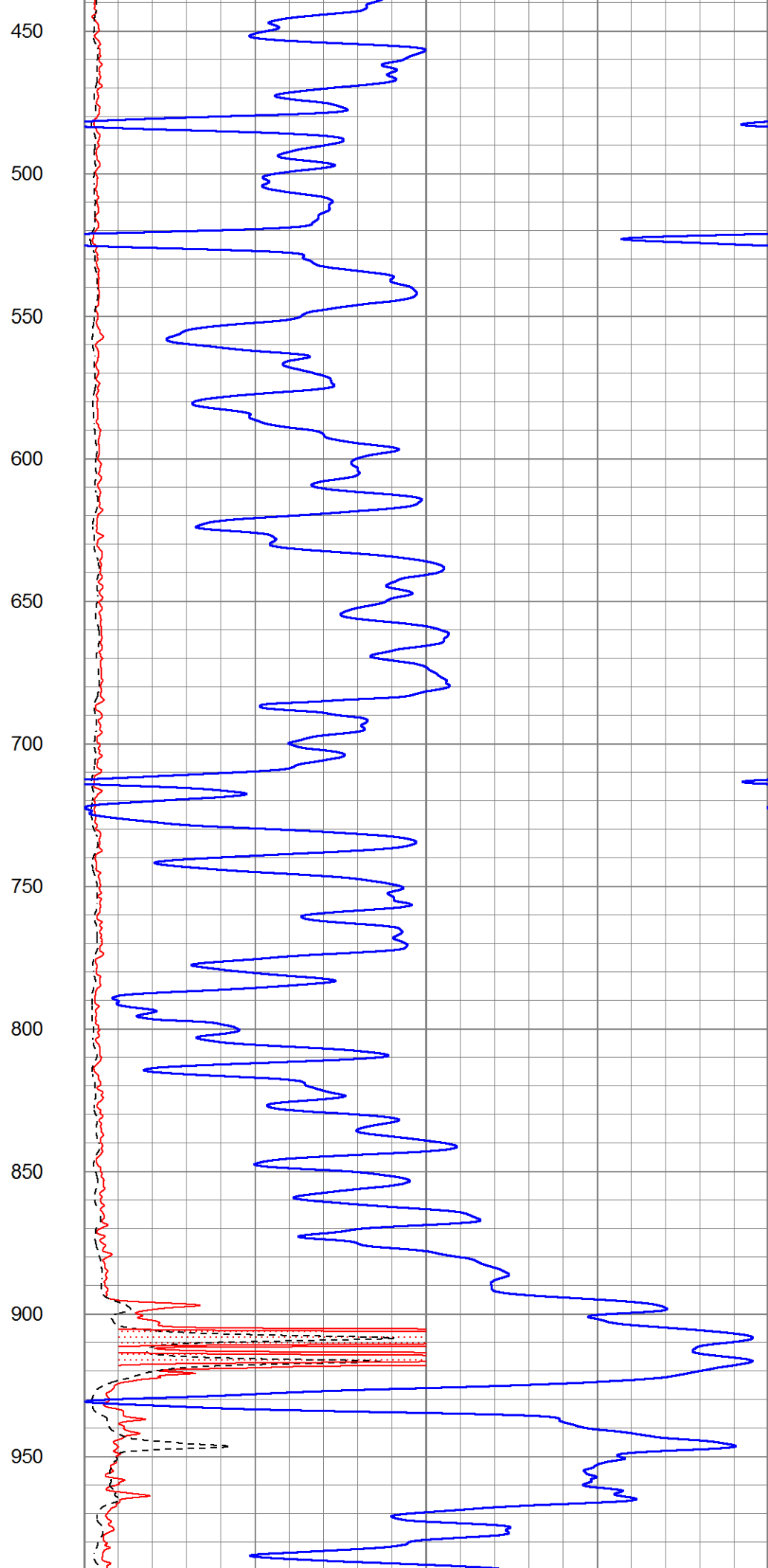
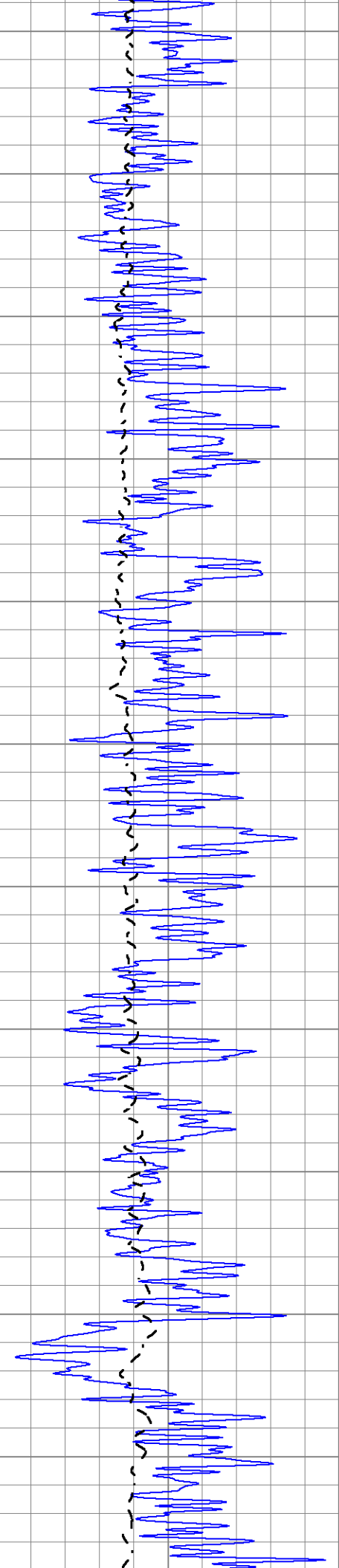


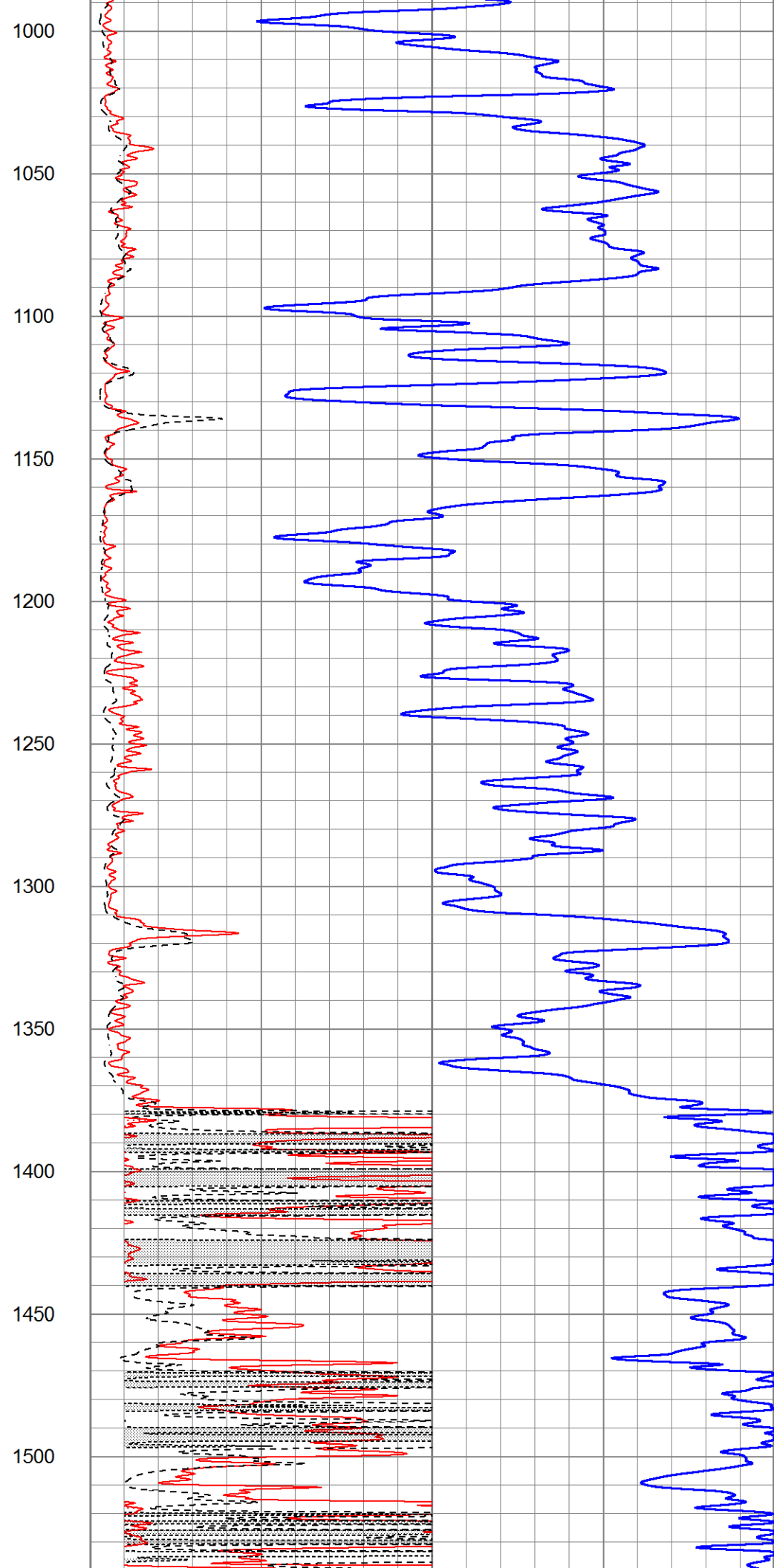
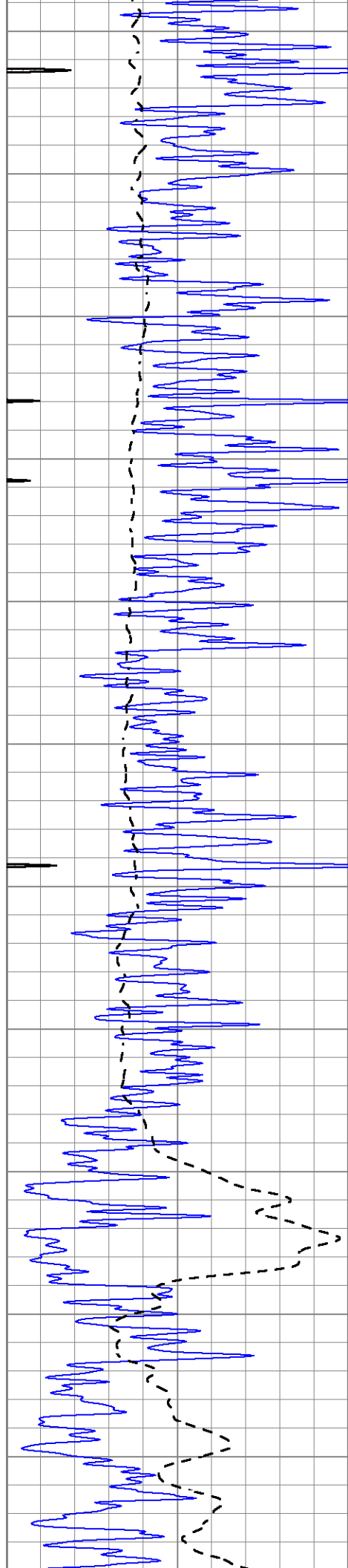
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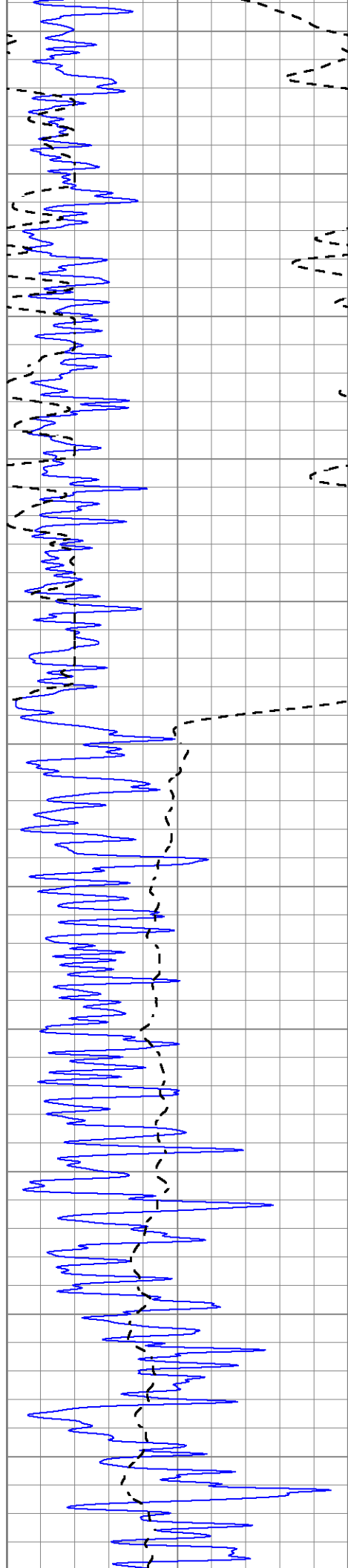
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Presentation Format	_dil2
Dataset Creation	Fri Mar 27 11:32:01 2020
Charted by	Depth in Feet scaled 1:600

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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









1550

1600

1650

1700

1750

1800

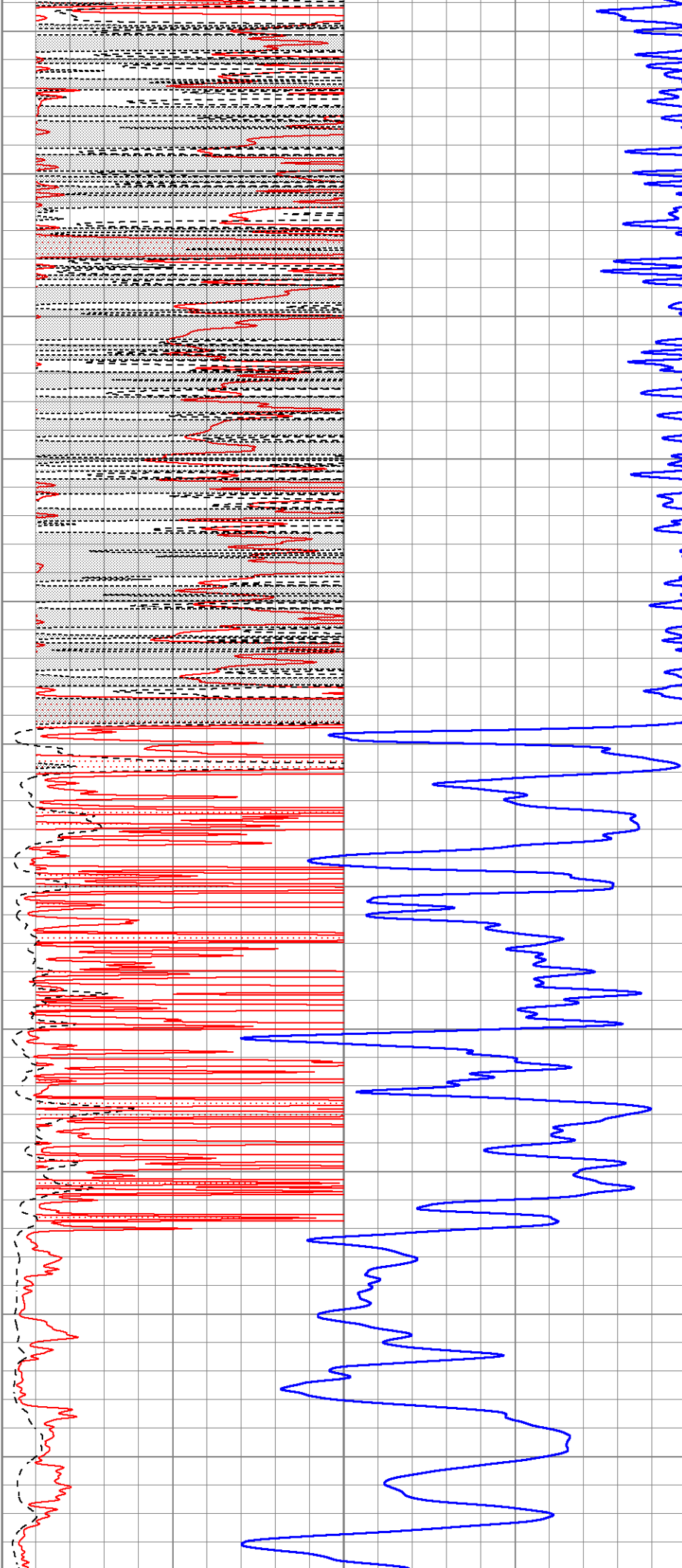
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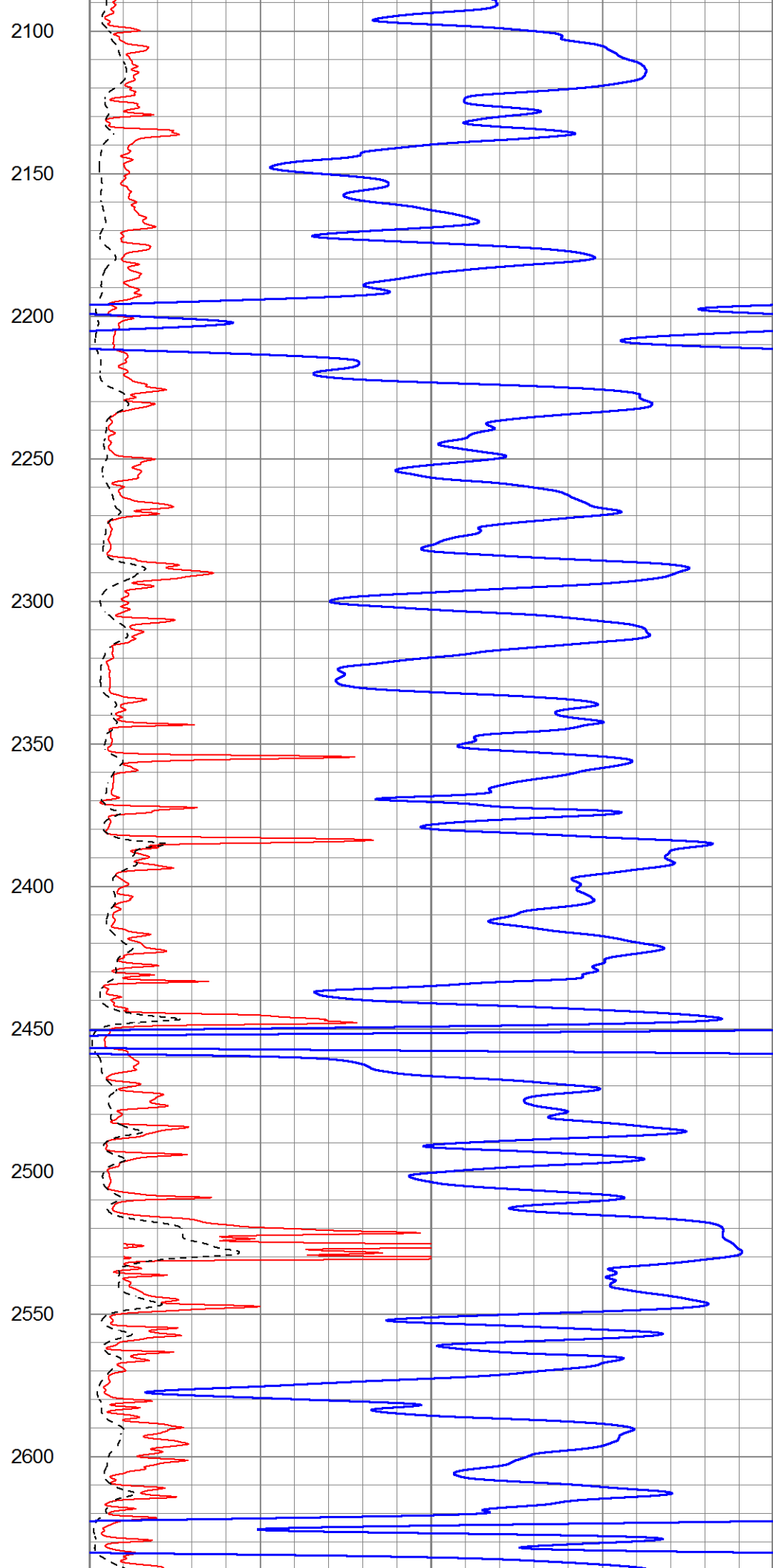
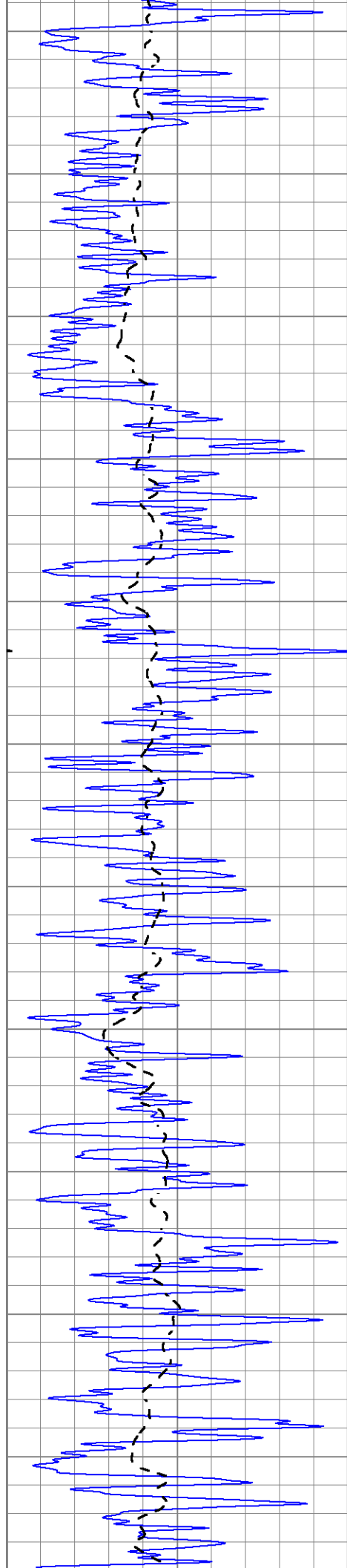
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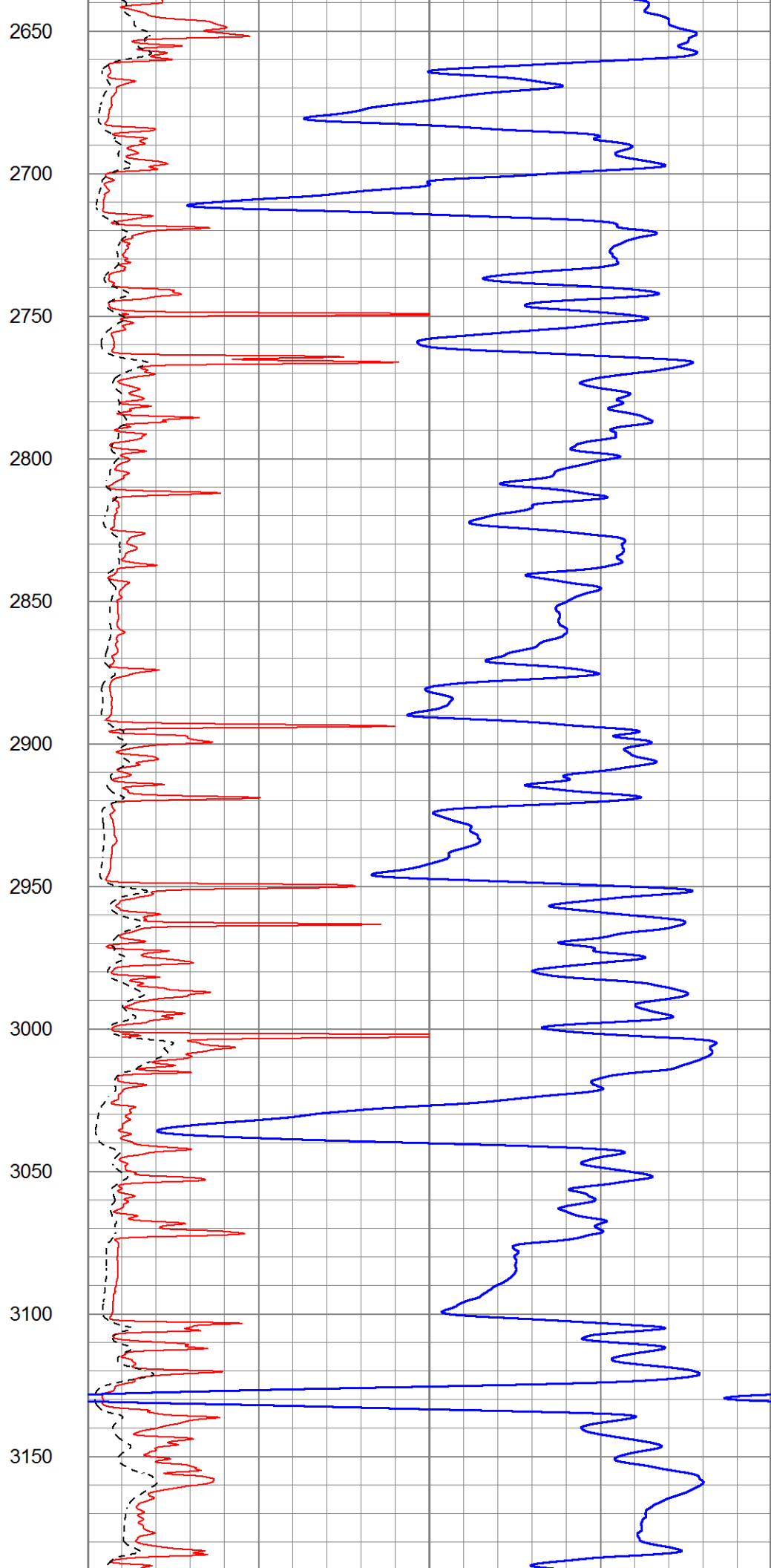
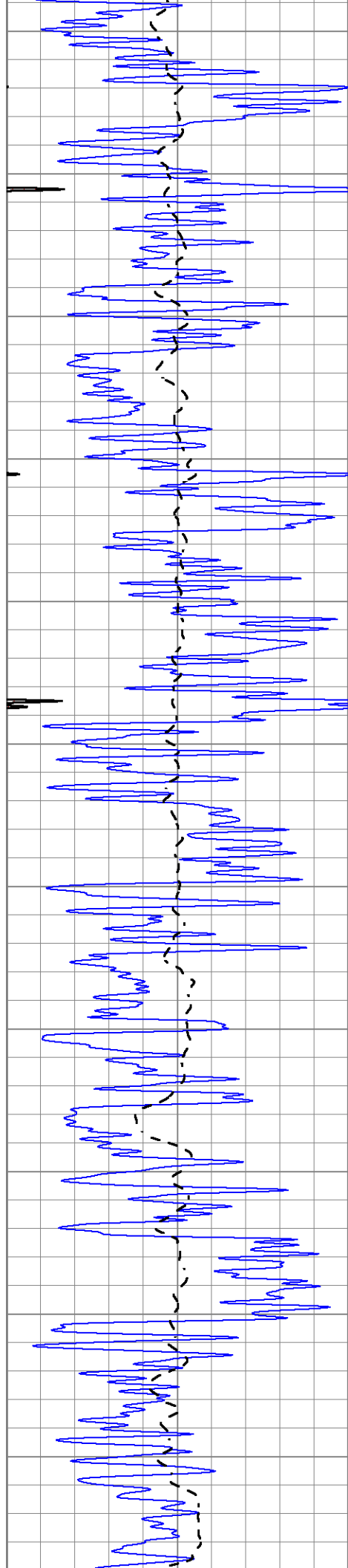
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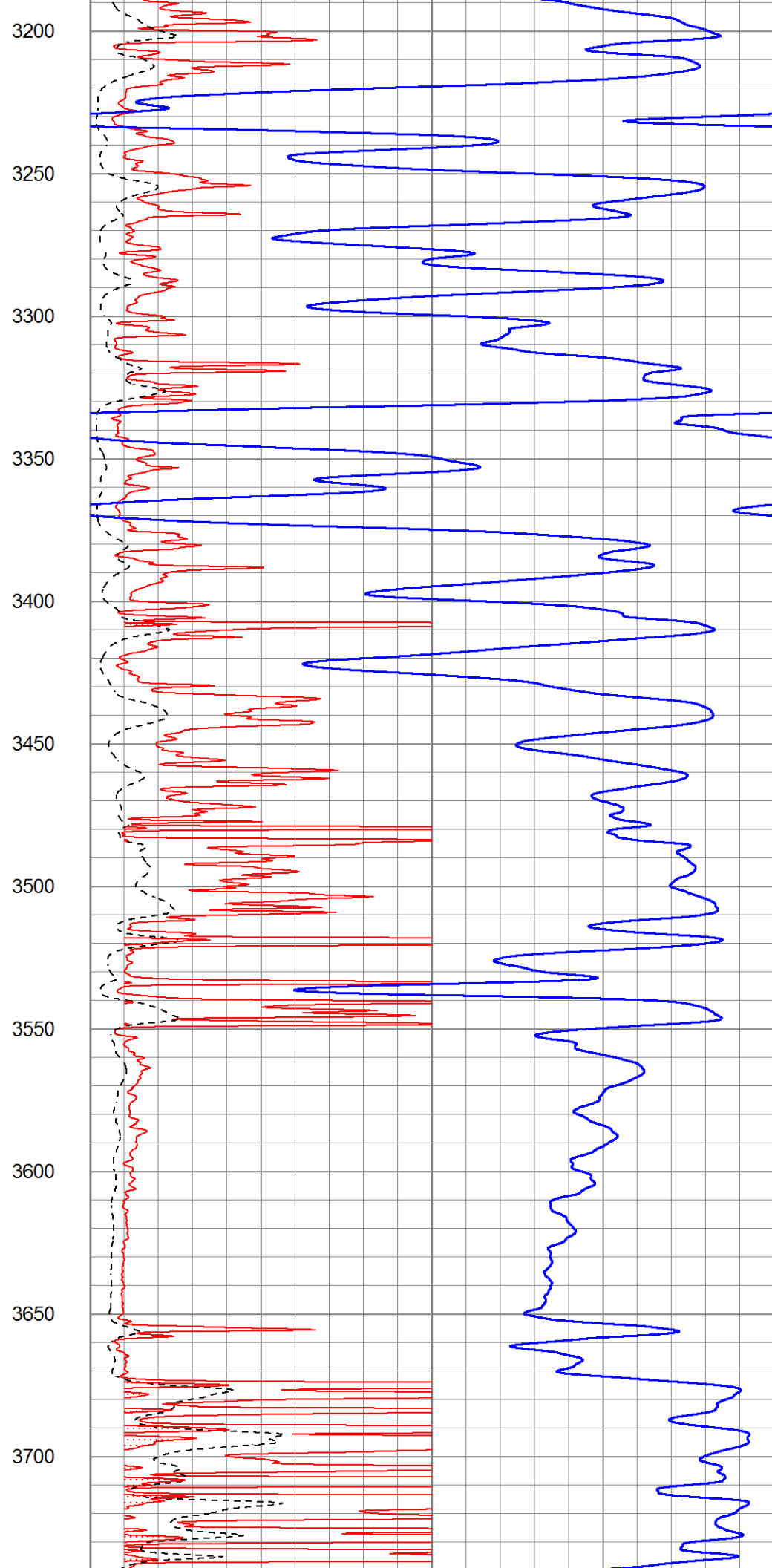
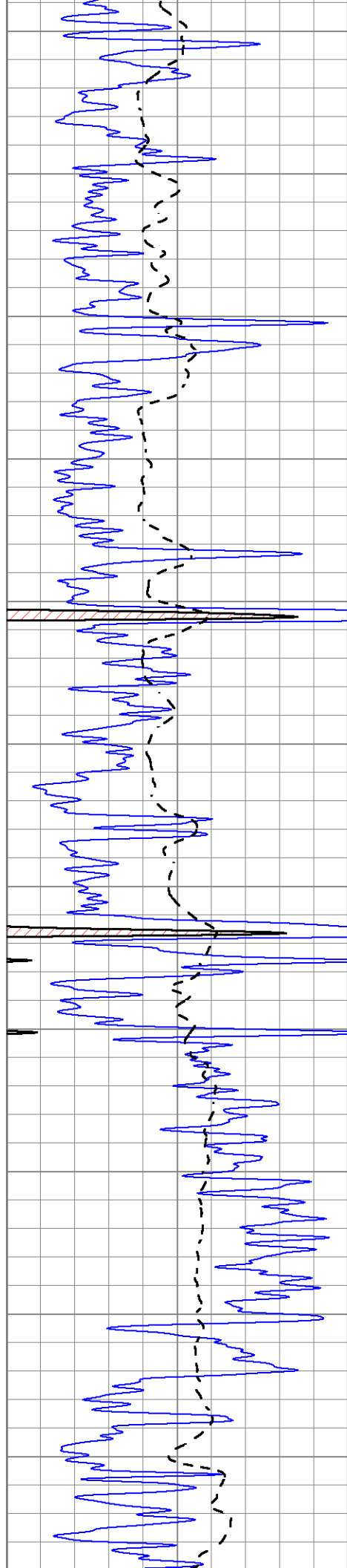
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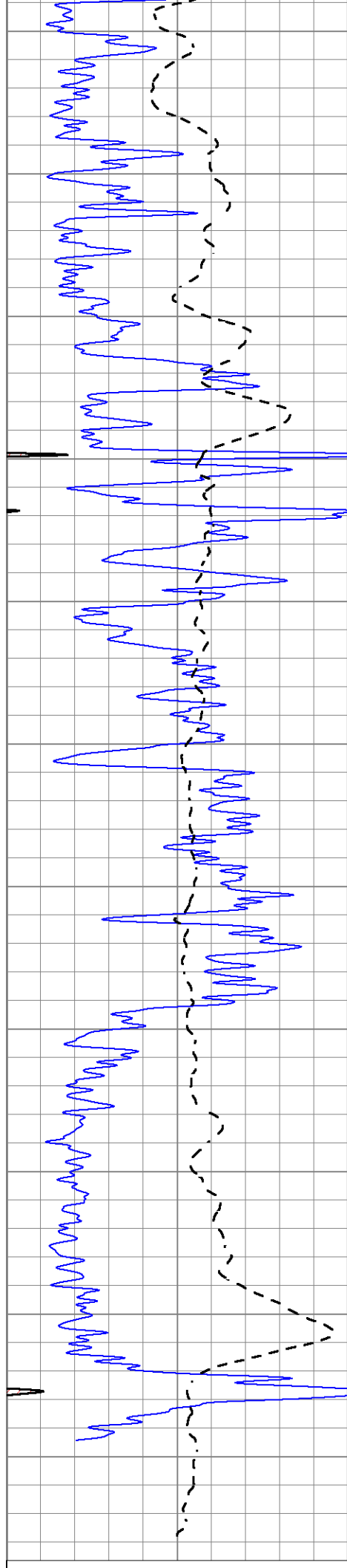
2050











3750

3800

3850

3900

3950

4000

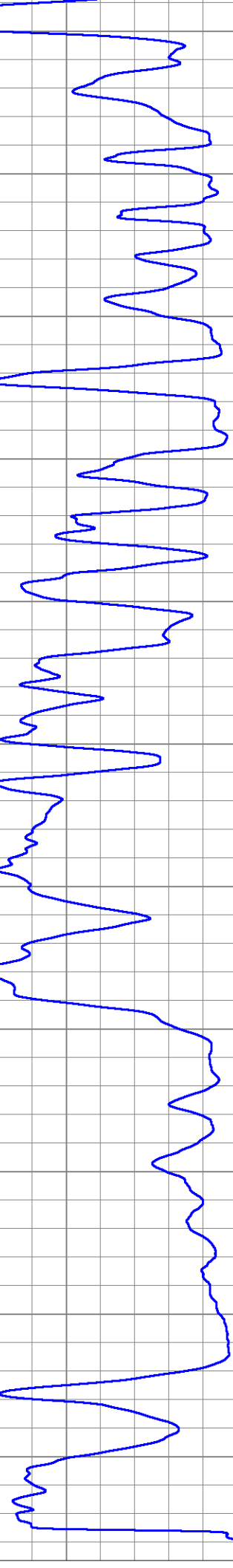
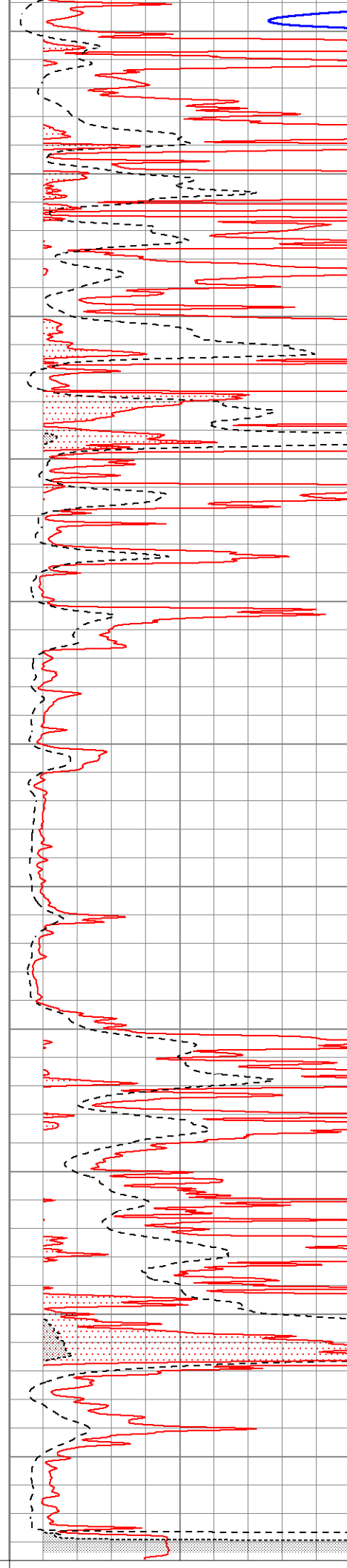
4050

4100

4150

4200

4250



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

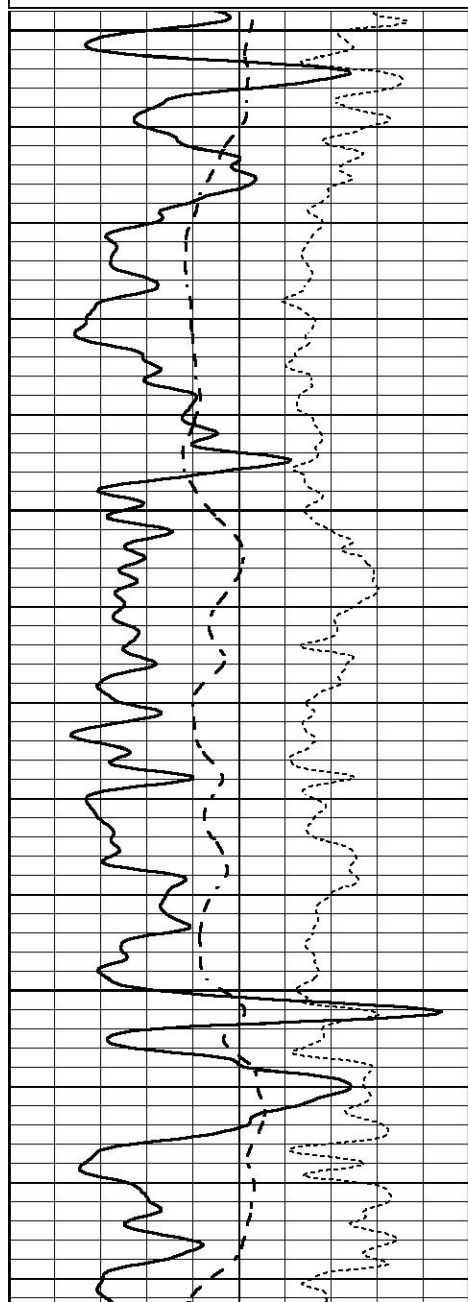


MAIN SECTION

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 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Fri Mar 27 09:57:24 2020
 Charted by Depth in Feet scaled 1:240

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

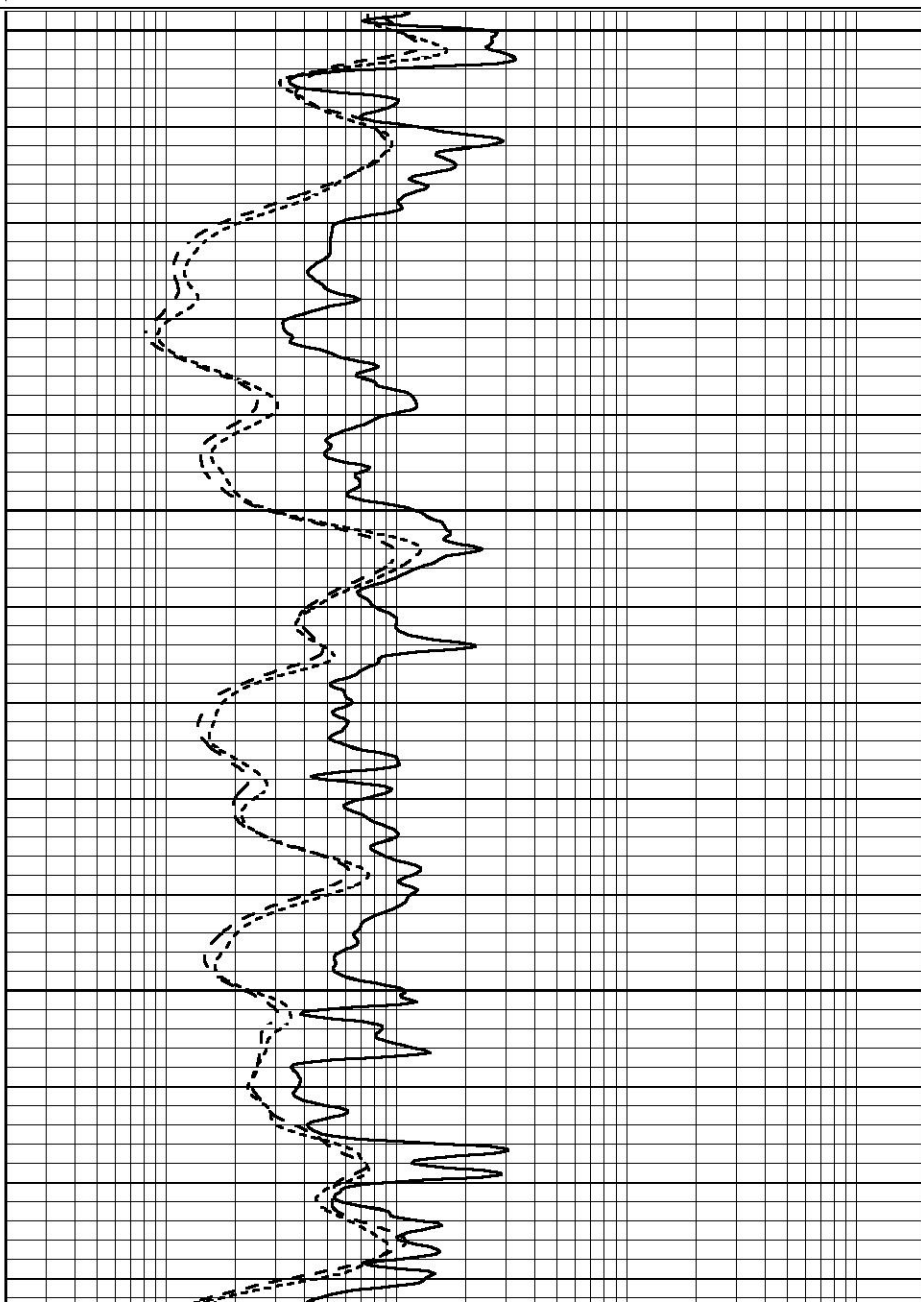
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0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

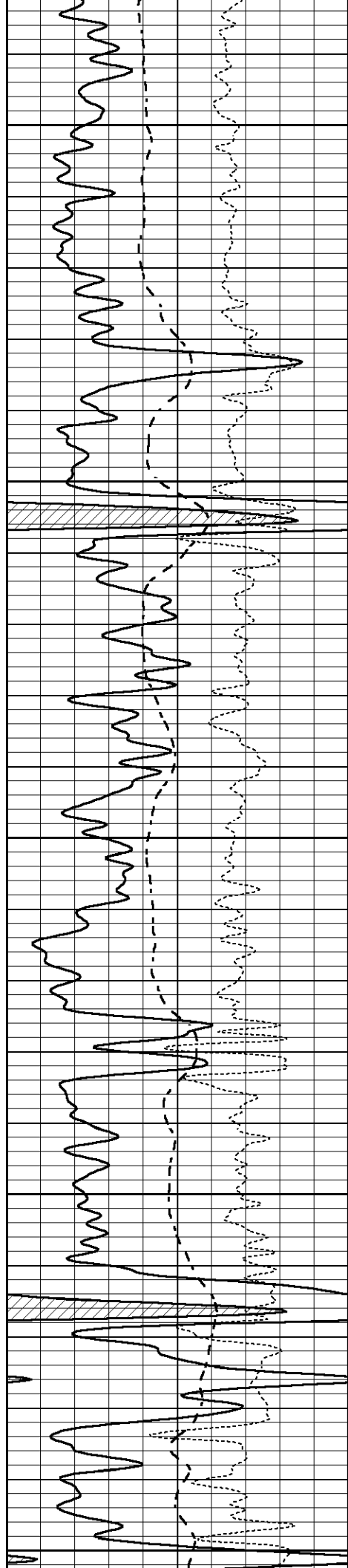


3200

3250

3300





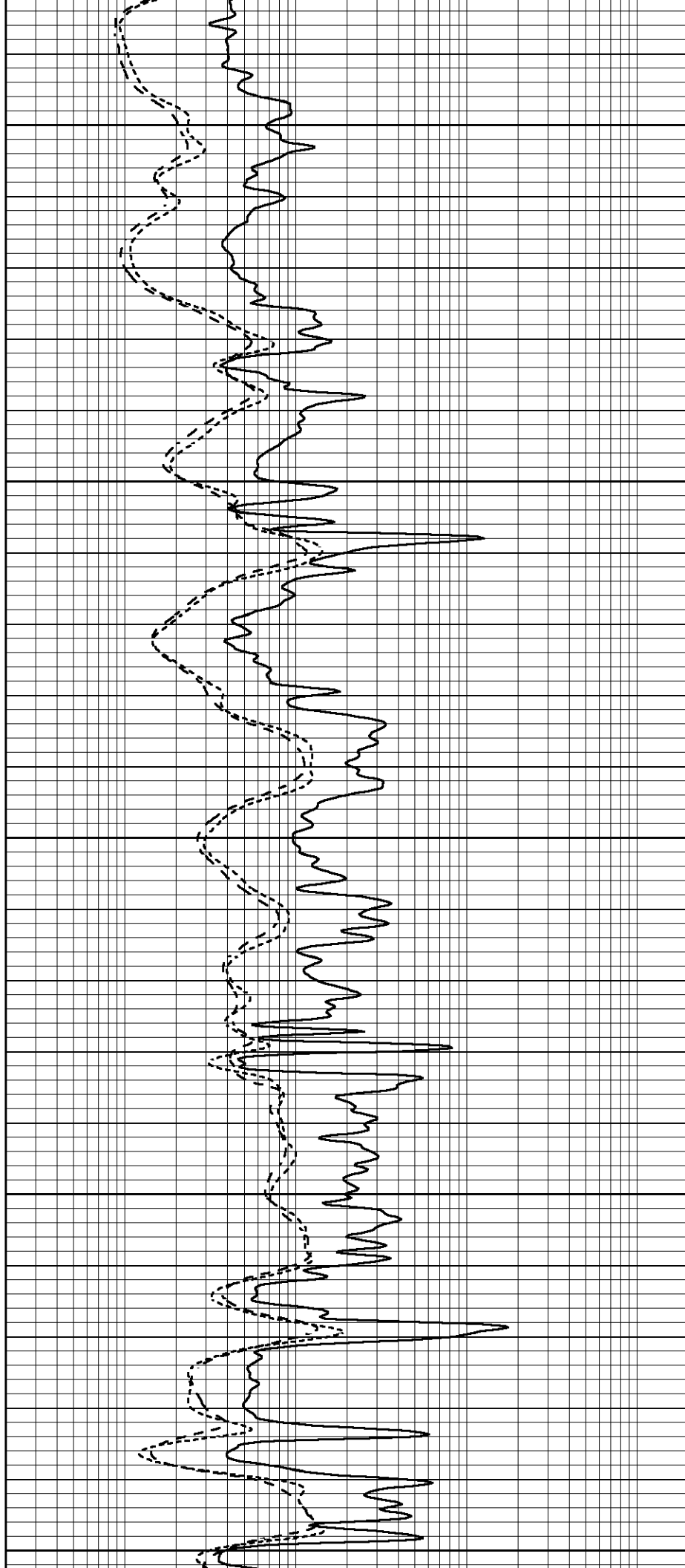
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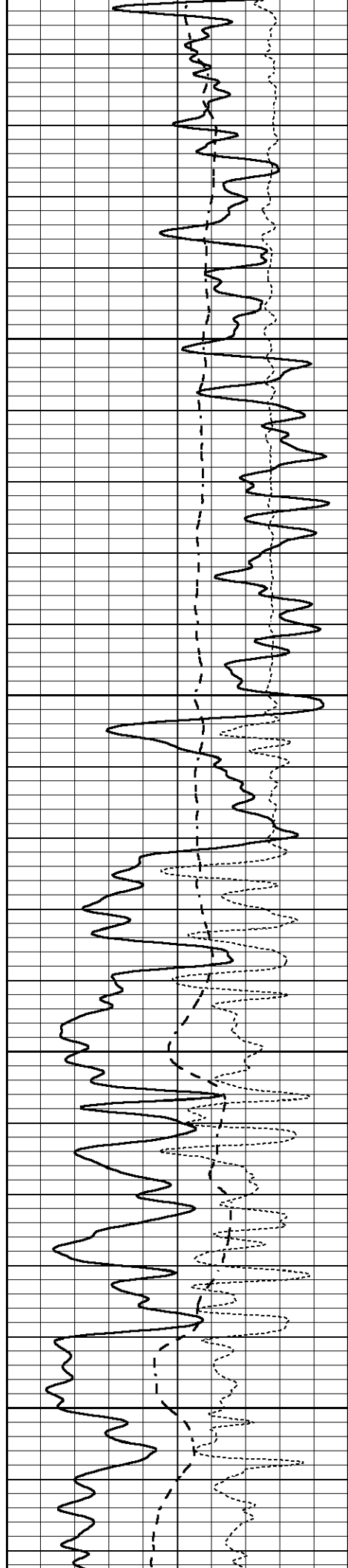
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3450

3500

3550



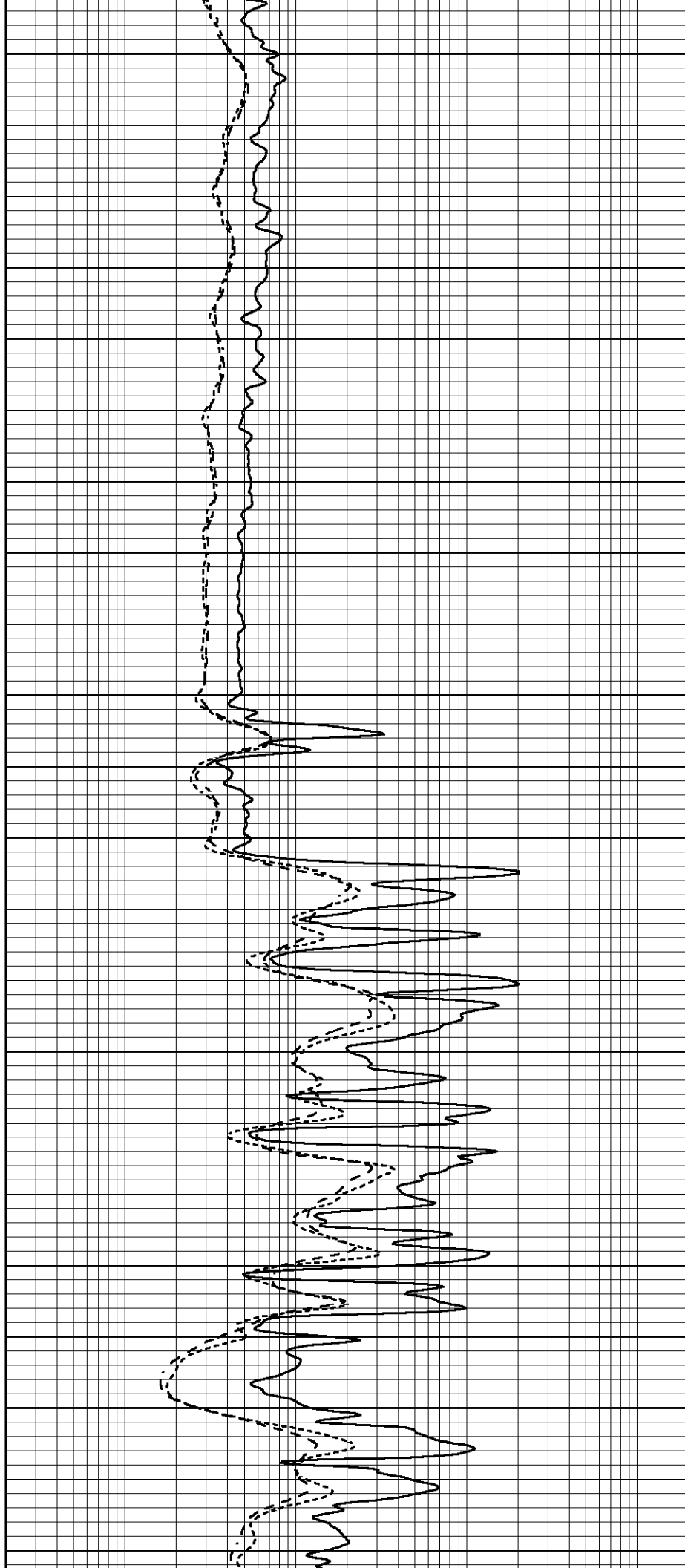


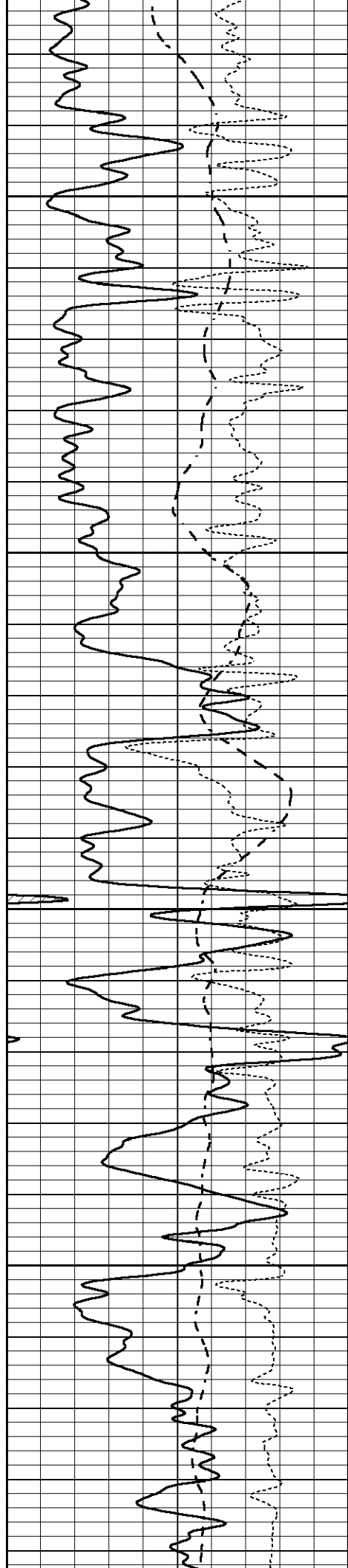
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3650

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3750



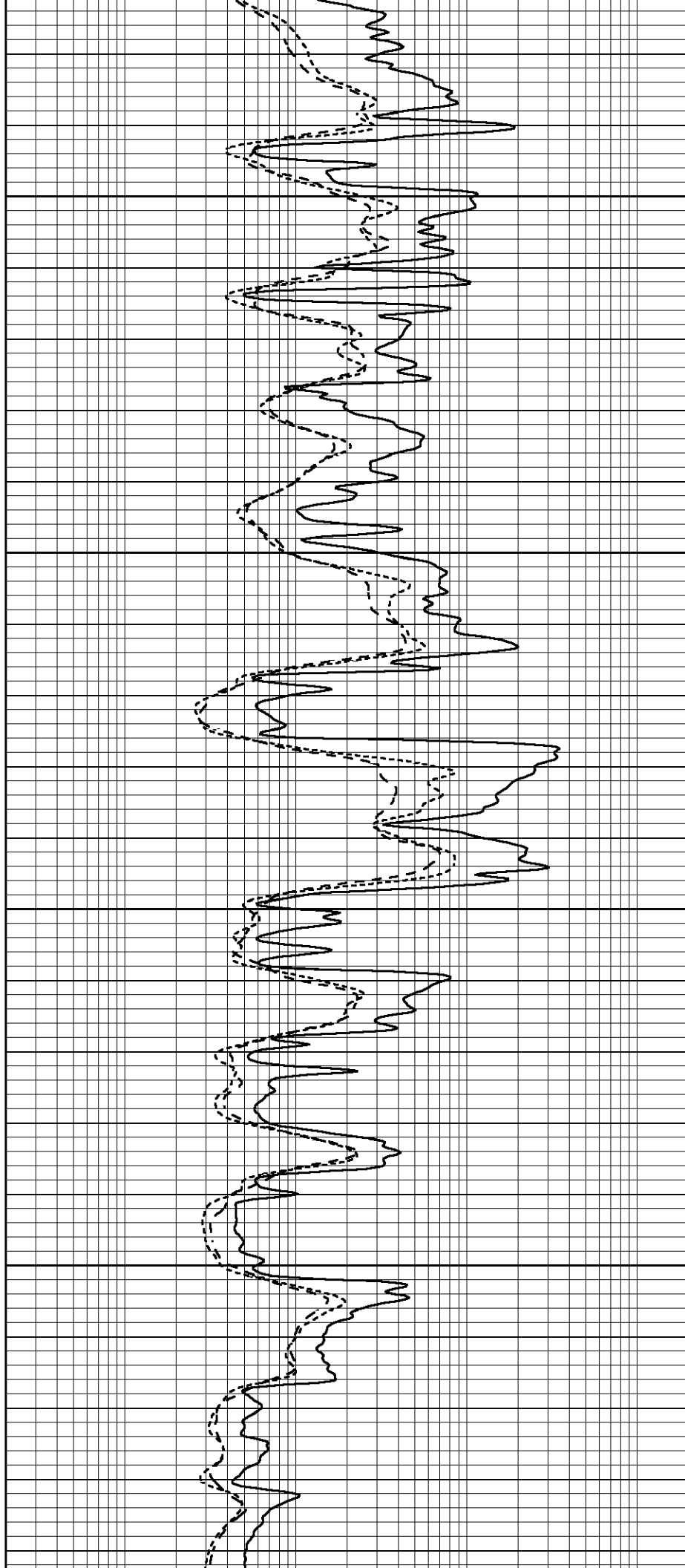


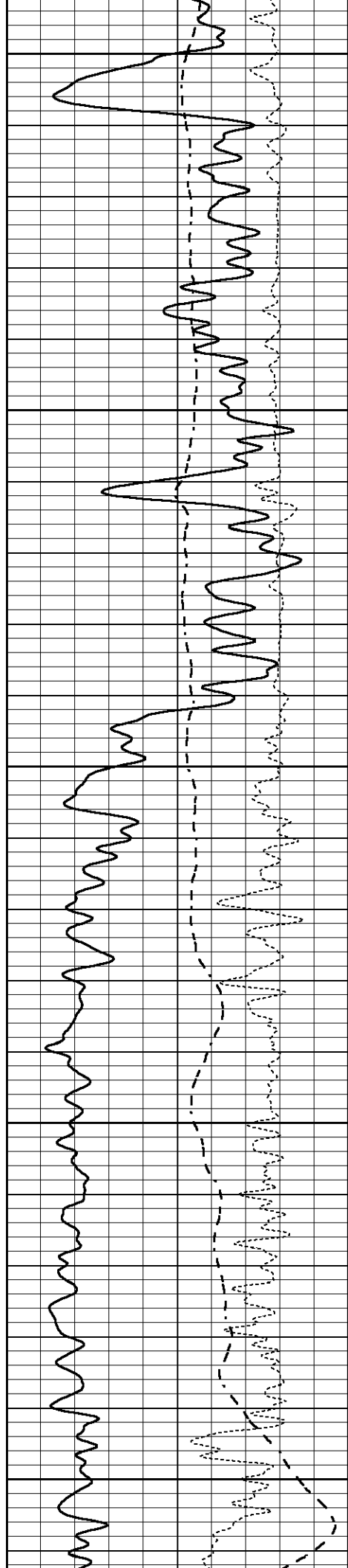
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3850

3900

3950





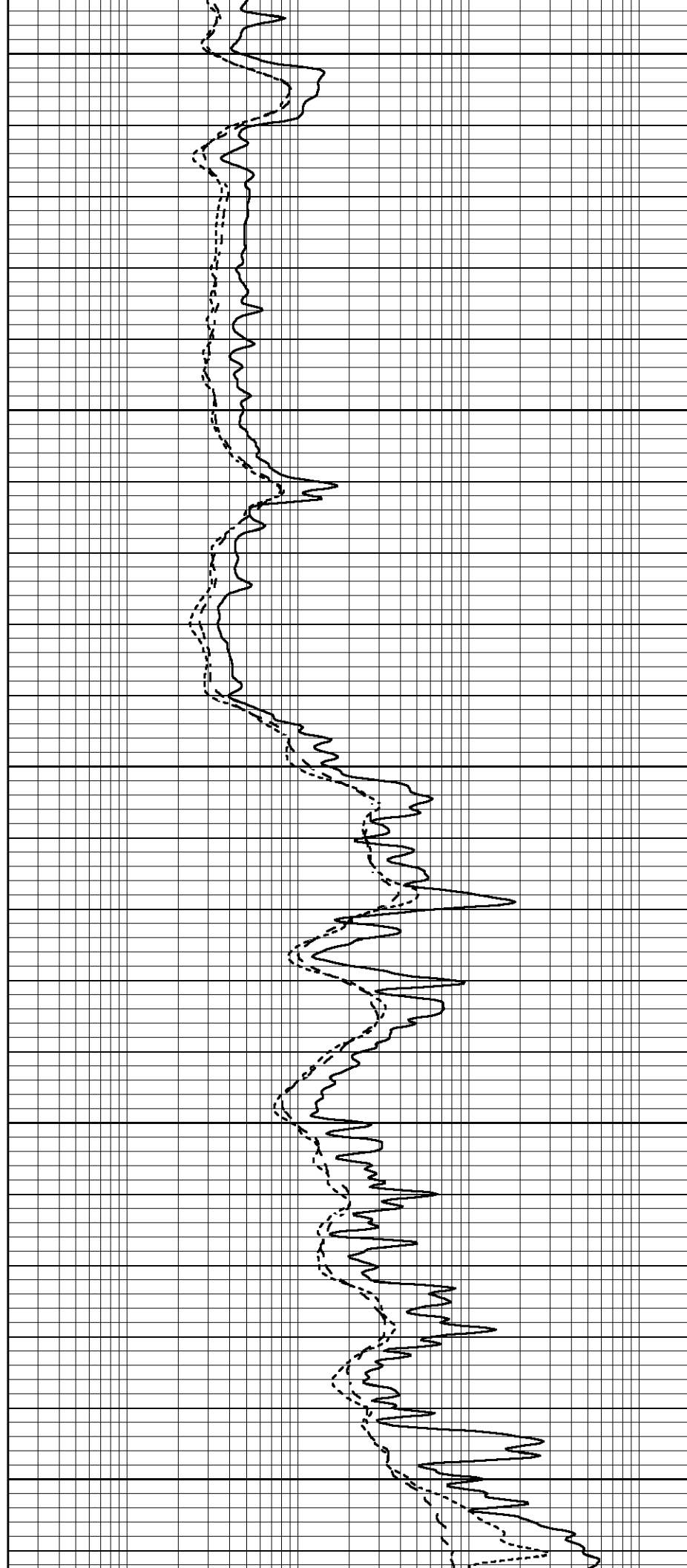
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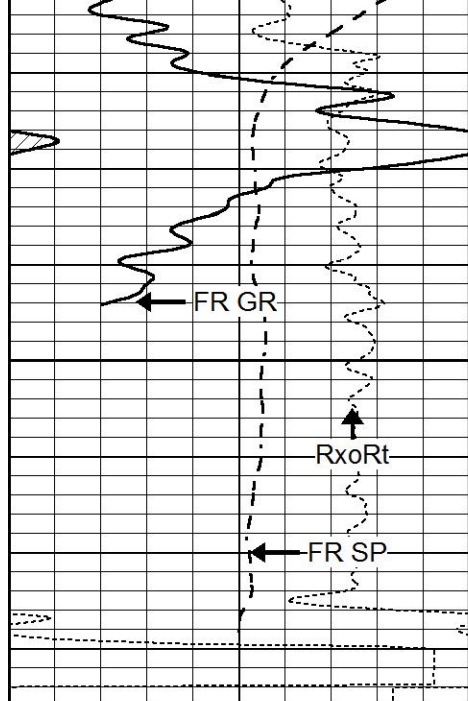
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4100

4150

4200

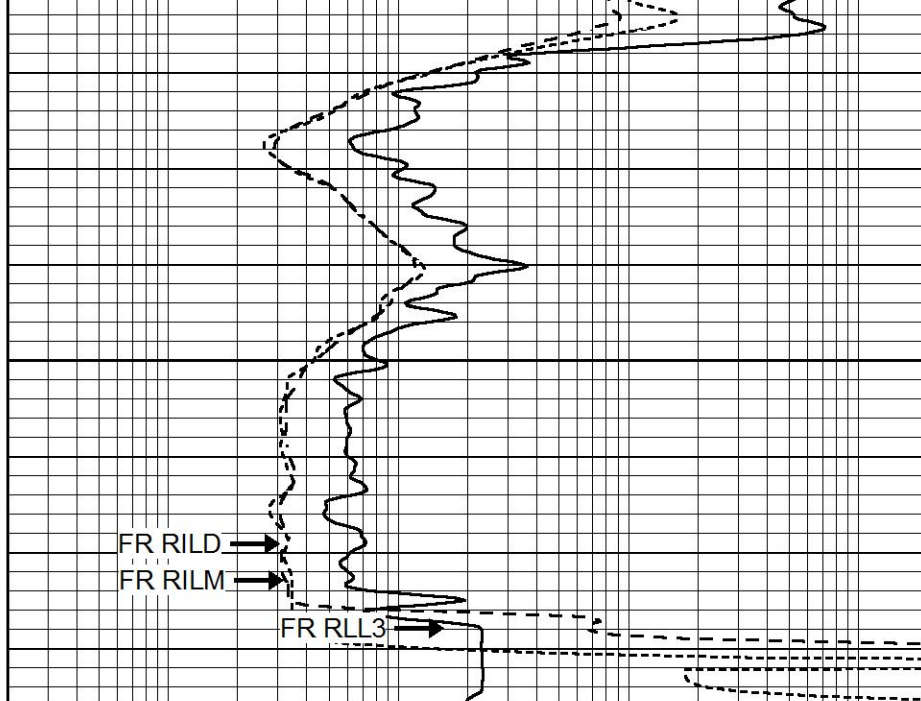




4250

LTD 4280

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

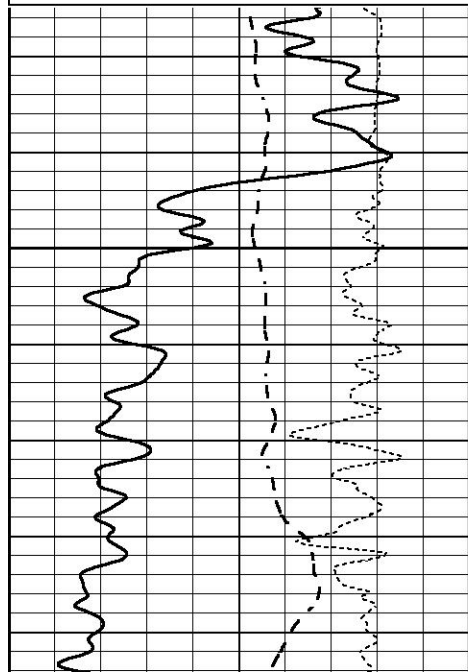


REPEAT SECTION

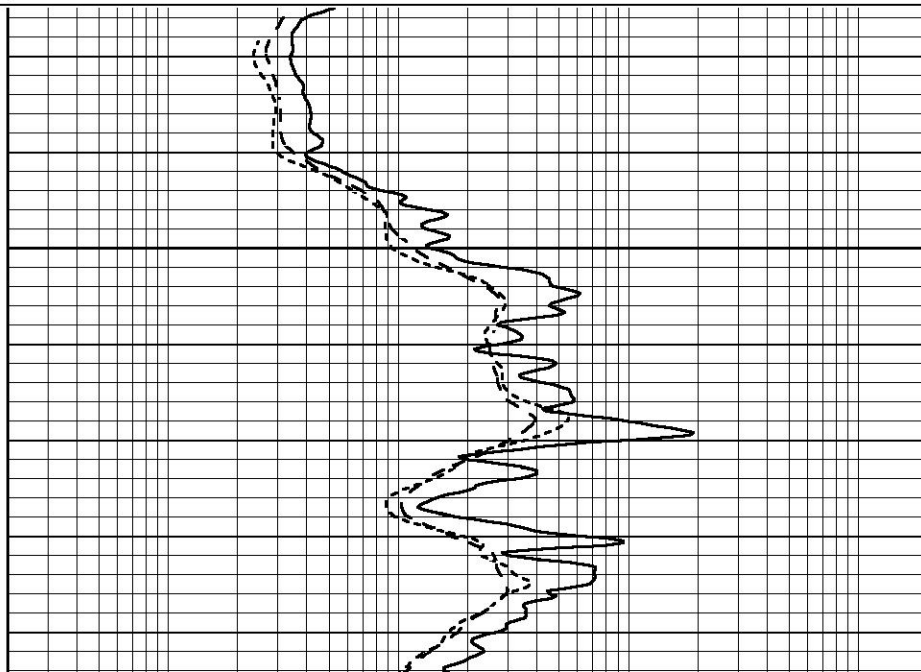
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 Presentation Format _dil
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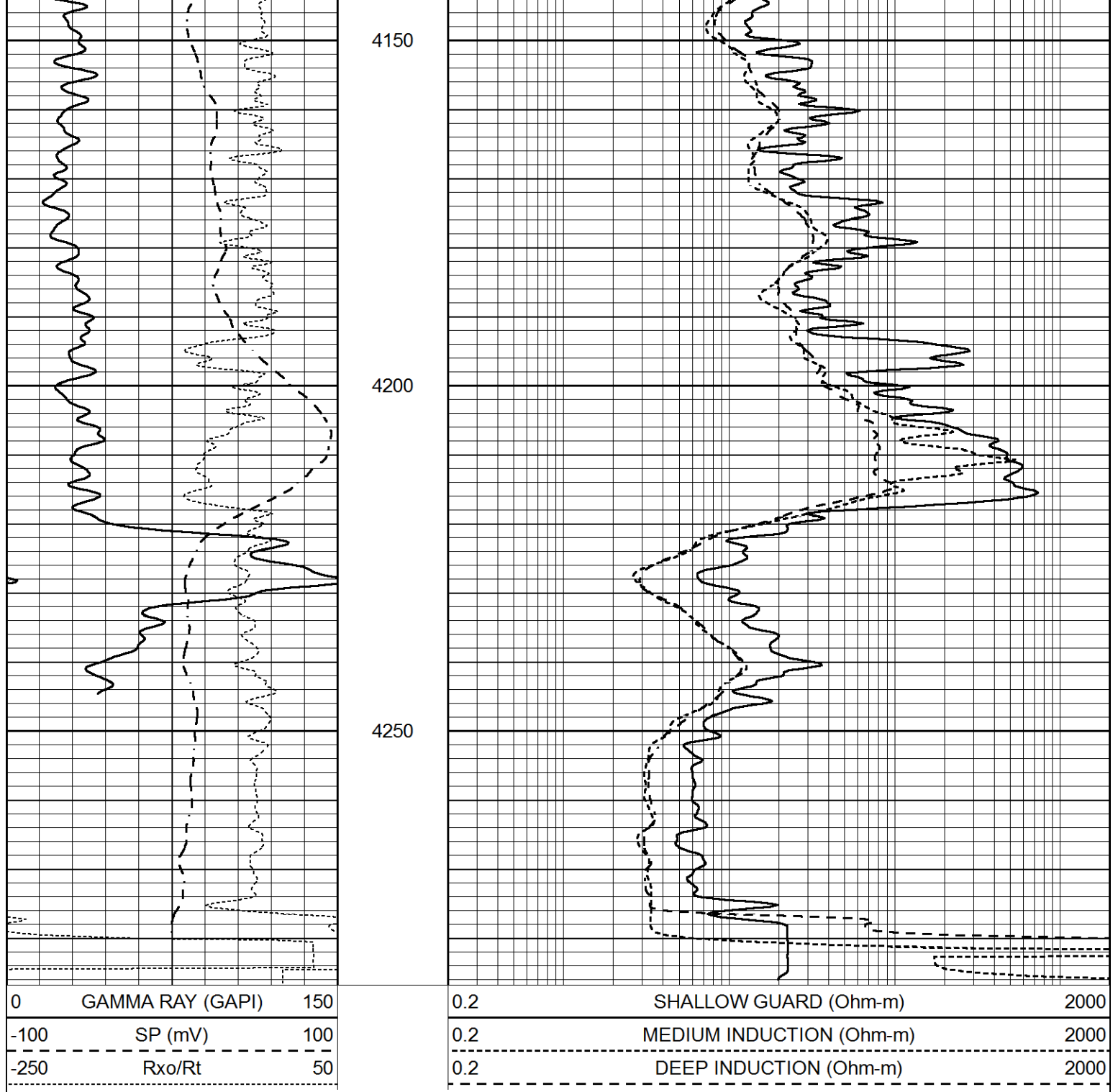
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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



4100





Calibration Report

Database File 4374ddn.db
 Dataset Pathname pass2.1
 Dataset Creation Fri Mar 27 09:56:37 2020

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

Readings

References

Results

Loop:	Air	Loop	Air	Loop	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		Zero	Cal		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								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	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
Calibrator Reading:	1.0
	cps
Sensitivity:	0.4800
	GAPI/cps