



DUAL INDUCTION LOG

Company	SHELBY RESOURCES, L.L.C.	
Well	VICKERS BUSTER #1-3 OWWO	
Field	ZOOK	
County	PAWNEE	State KANSAS
Location:	API # : 15-145-00061-0001	
Permanent Datum	SEC 3 TWP 22S RGE 16W	Other Services CDL/CNL/PE MEL/SON
Log Measured From	GROUND LEVEL Elevation 1990	Elevation K.B. 1998 D.F. 1996 G.L. 1990
Drilling Measured From	KELLY BUSHING 8' A.G.L KELLY BUSHING	
Date	10/16/20	
Run Number	TWO	
Depth Driller	3963	
Depth Logger	3956	
Bottom Logged Interval	3954	
Top Log Interval	00	
Casing Driller	8 5/8" @ 986'	
Casing Logger	986'	
Bit Size	7 7/8	
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 9700 PPM
Density / Viscosity	8.7/53	
pH / Fluid Loss	10.5/10.0	
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	.40 @ 65F	
Rmf @ Meas. Temp	.30 @ 65F	
Rmc @ Meas. Temp	.48 @ 65F	
Source of Rmf / Rmc	MEASUREMENT	
Rm @ BHT	.22 @ 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	JEREMY SCHWARTZ	CHRIS GOTTSCHALK

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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

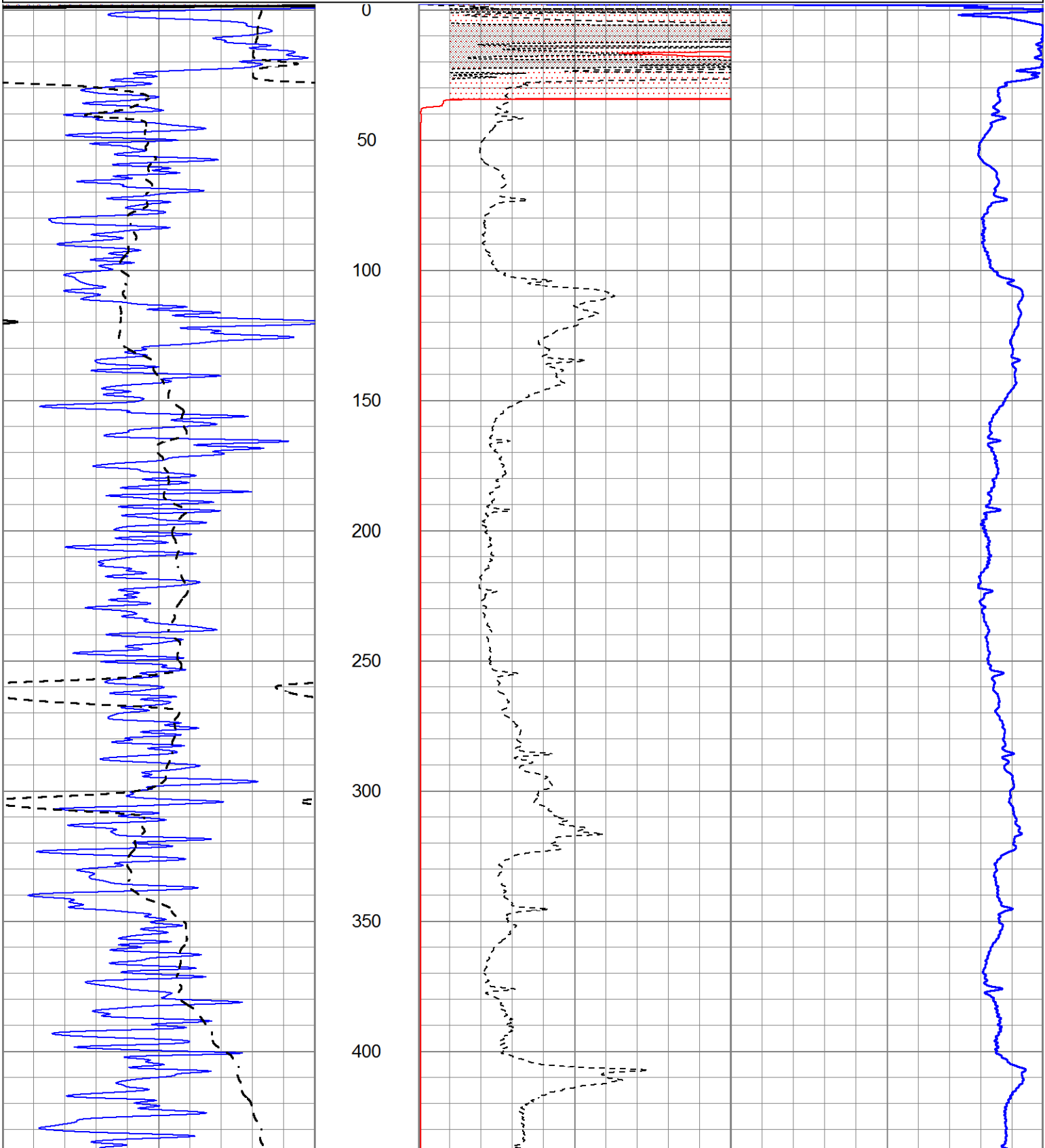
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
LARNED, KS. - SOUTH TO K 19 - 2 EAST JUST PAST LAKE - NORTH & WEST INTO

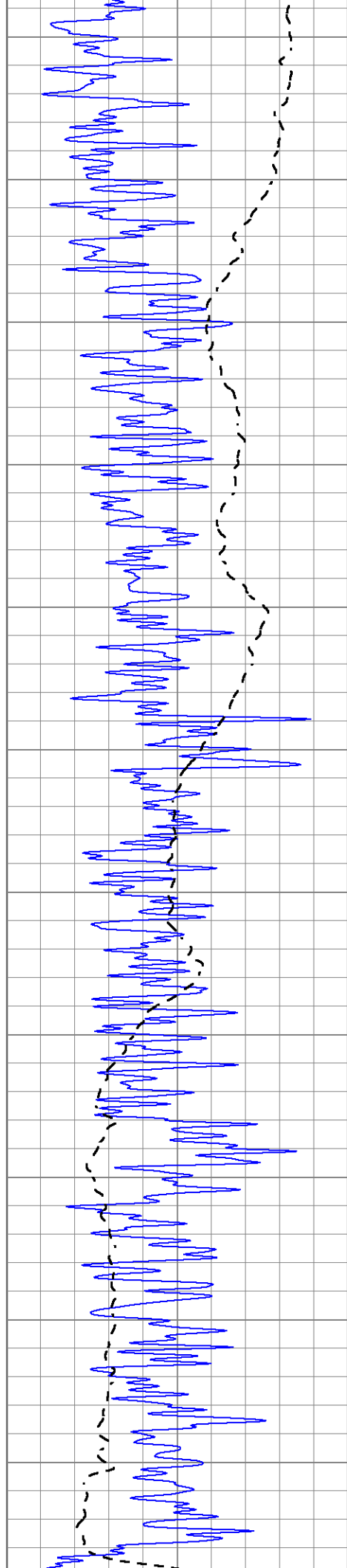


MAIN SECTION

Database File	5231ddn.db
Dataset Pathname	pass7.3
Presentation Format	_dil2
Dataset Creation	Fri Oct 16 20:19:05 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





450

500

550

600

650

700

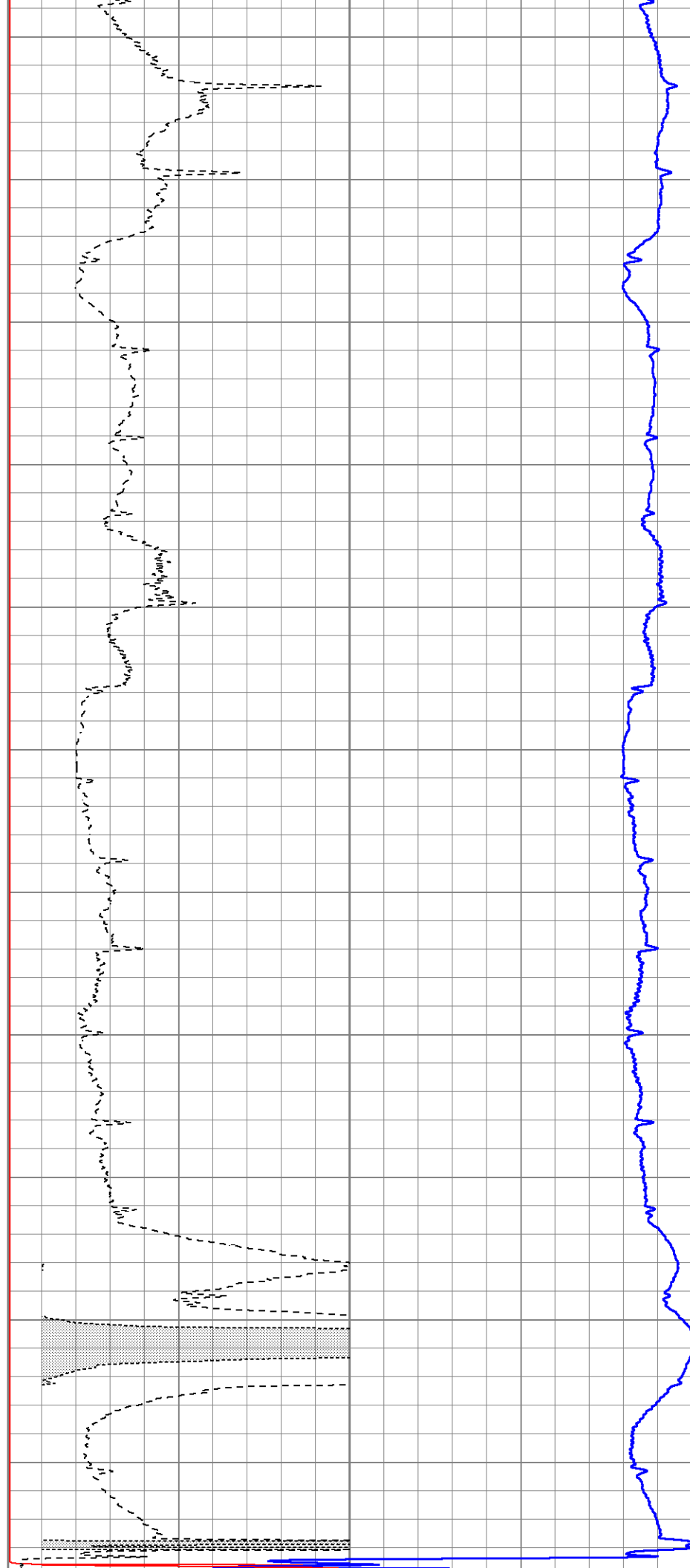
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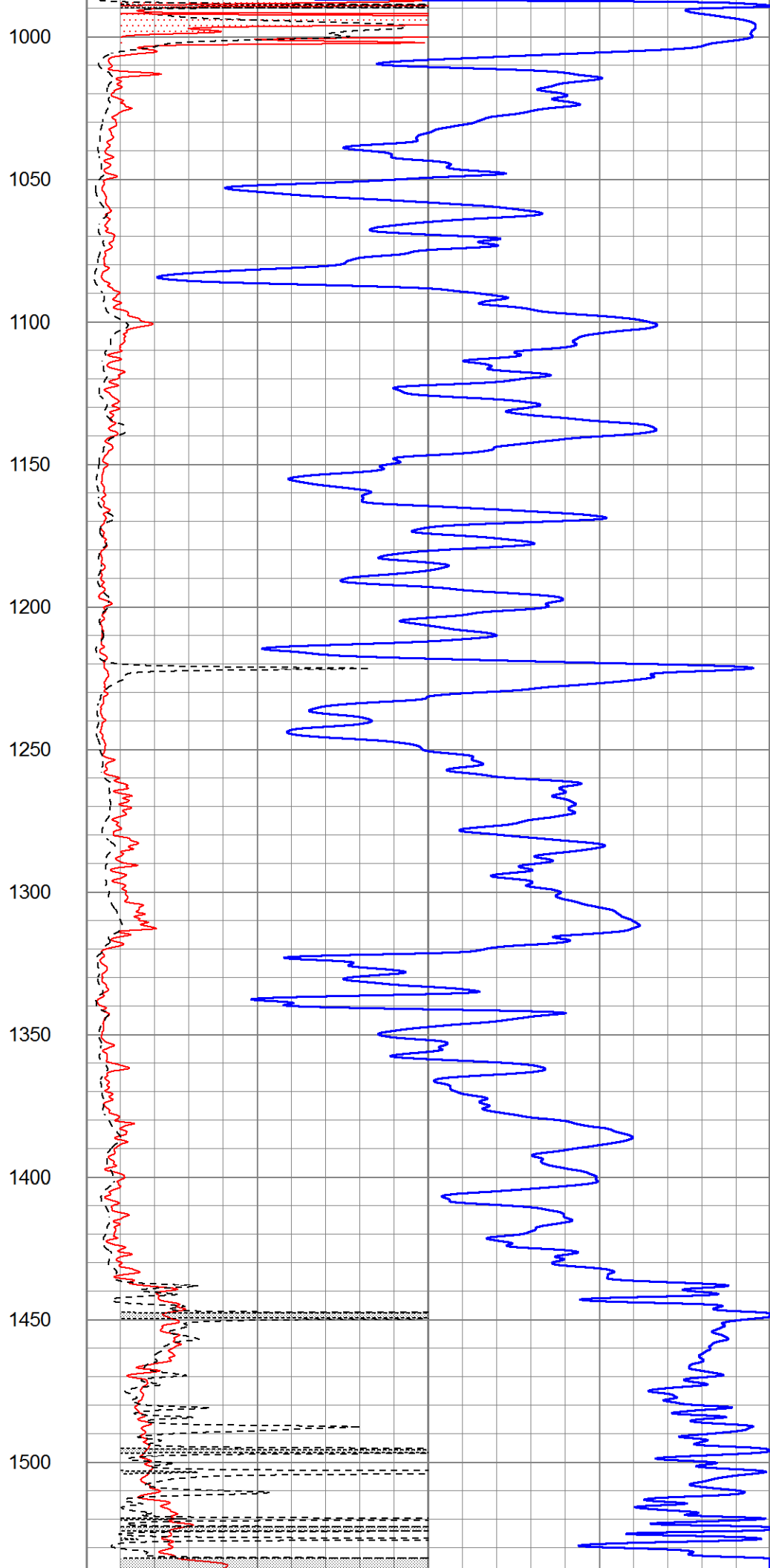
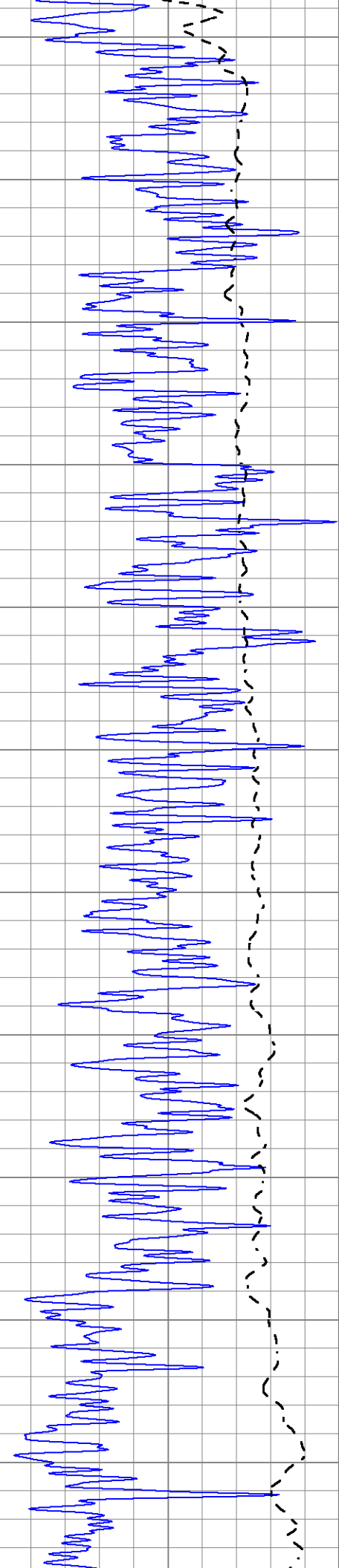
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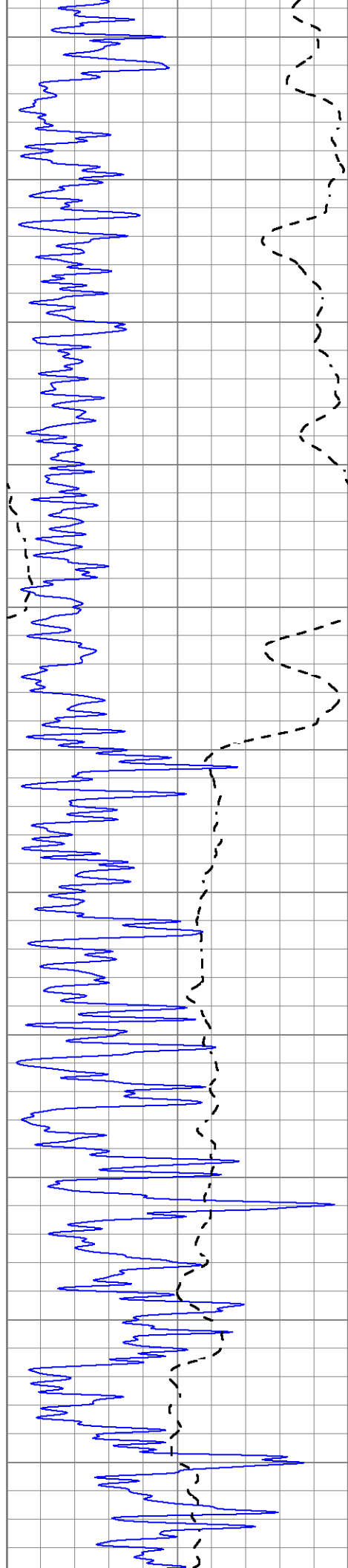
850

900

950







1550

1600

1650

1700

1750

1800

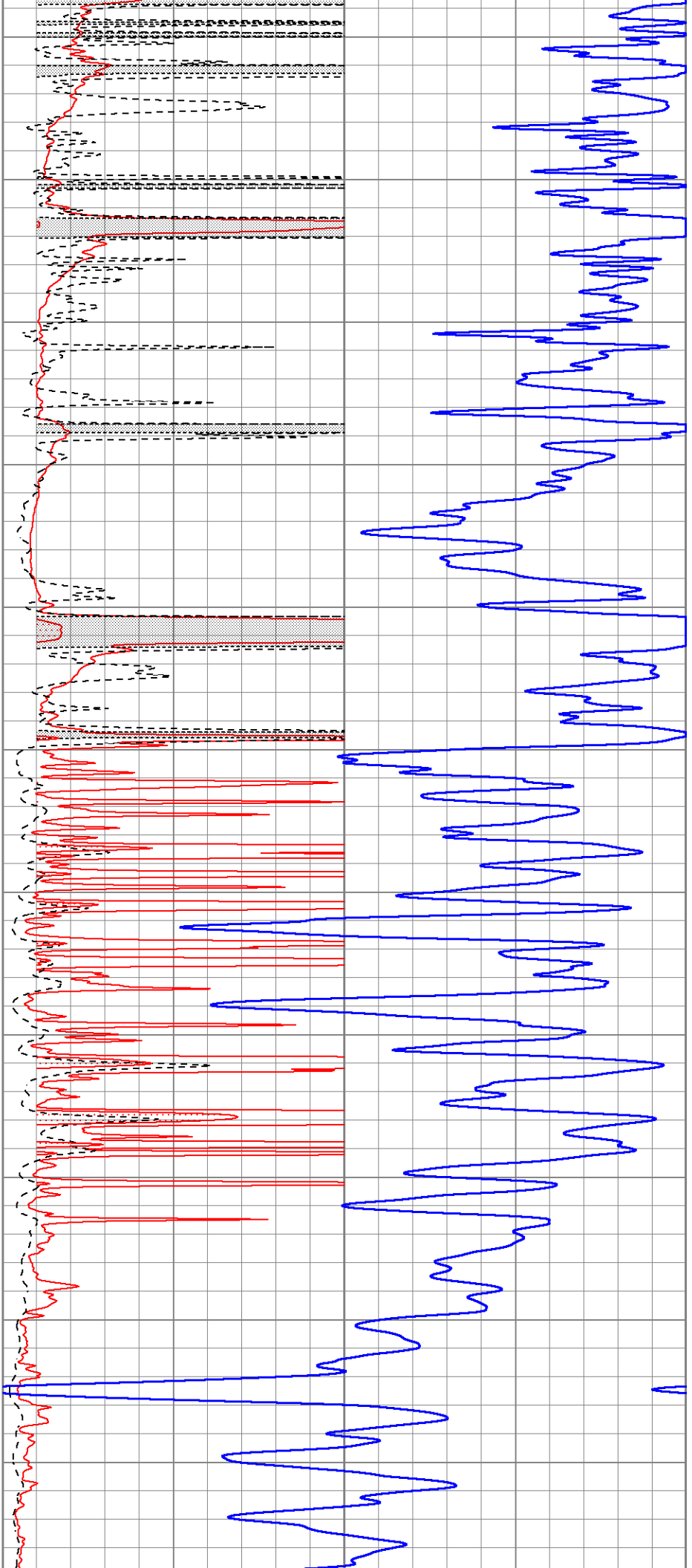
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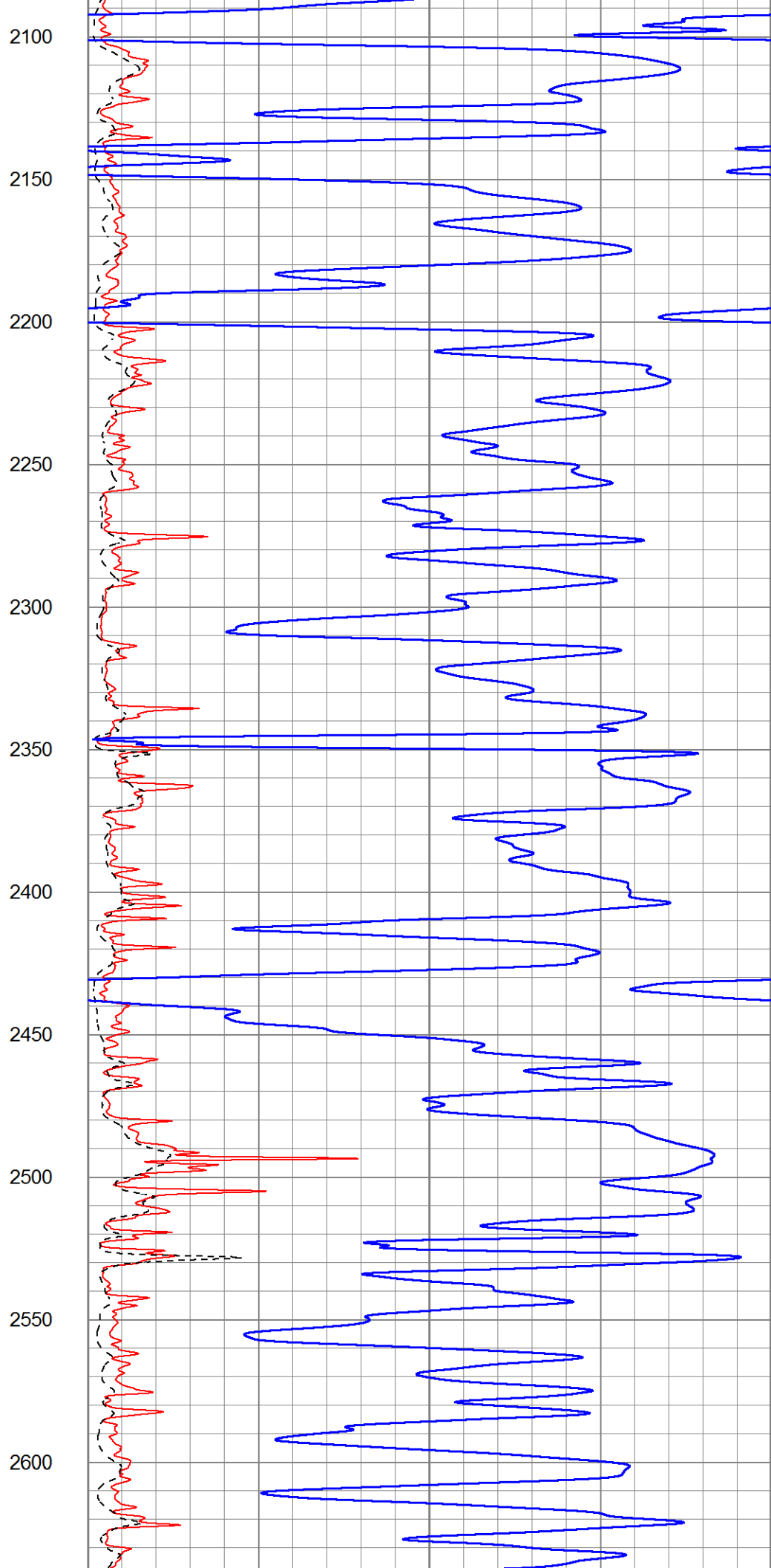
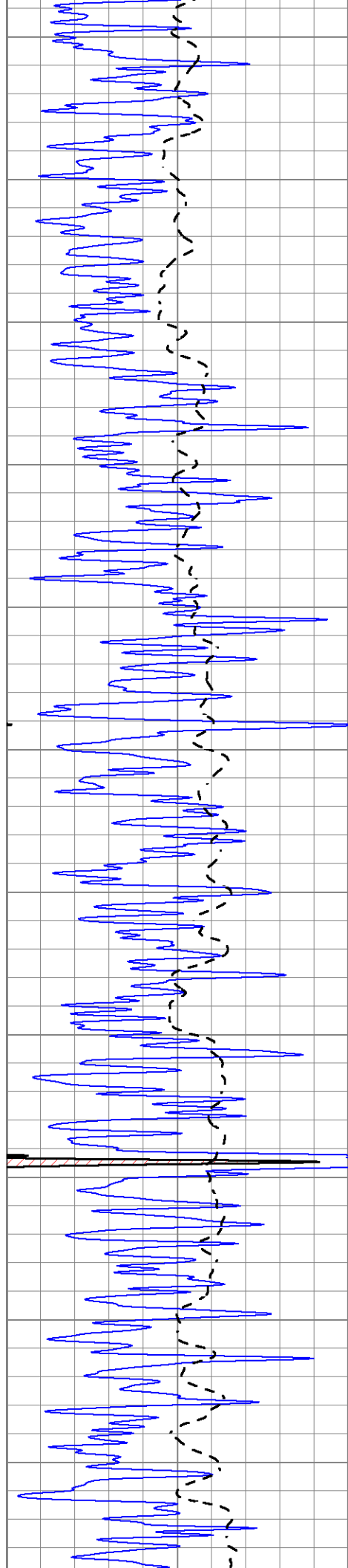
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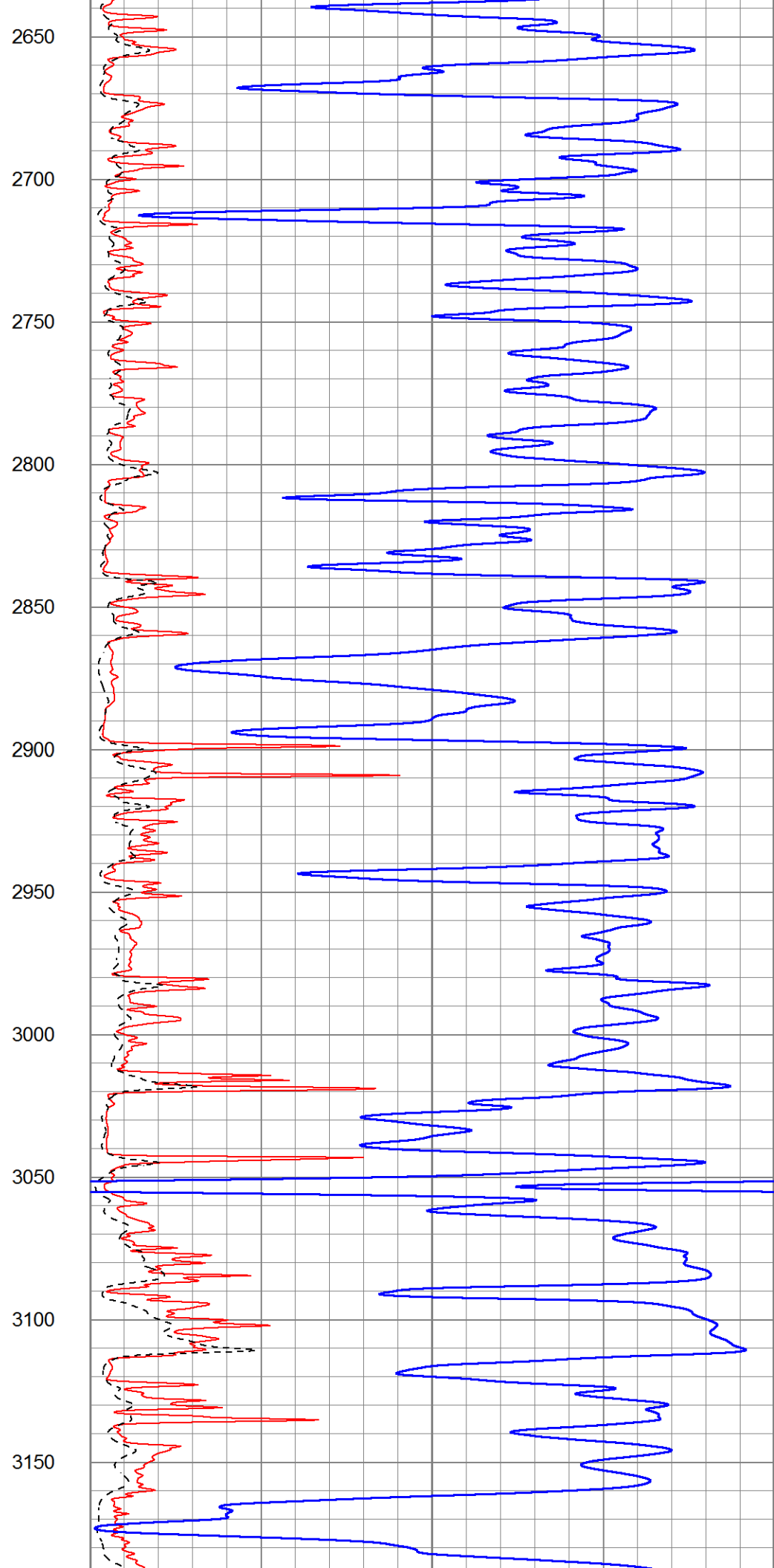
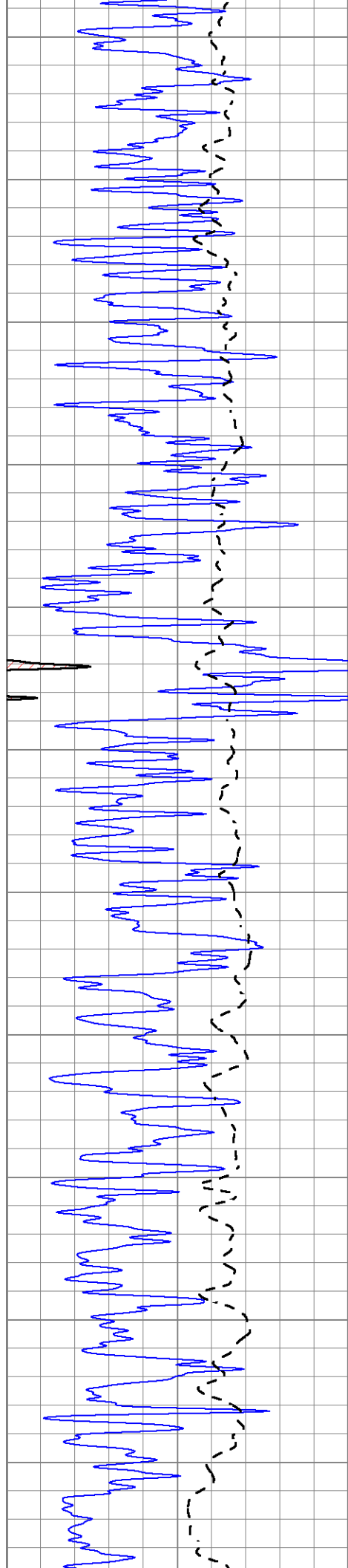
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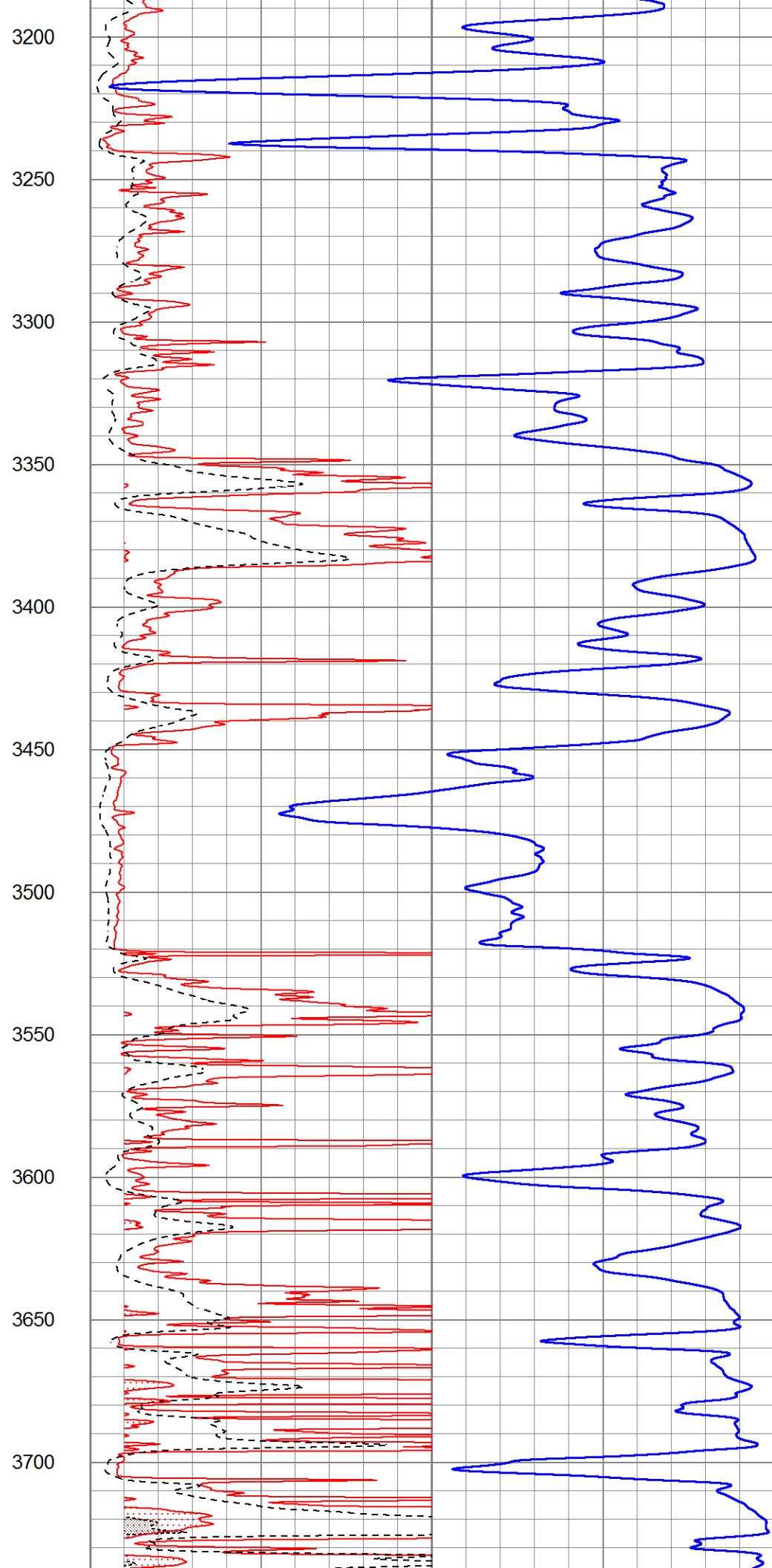
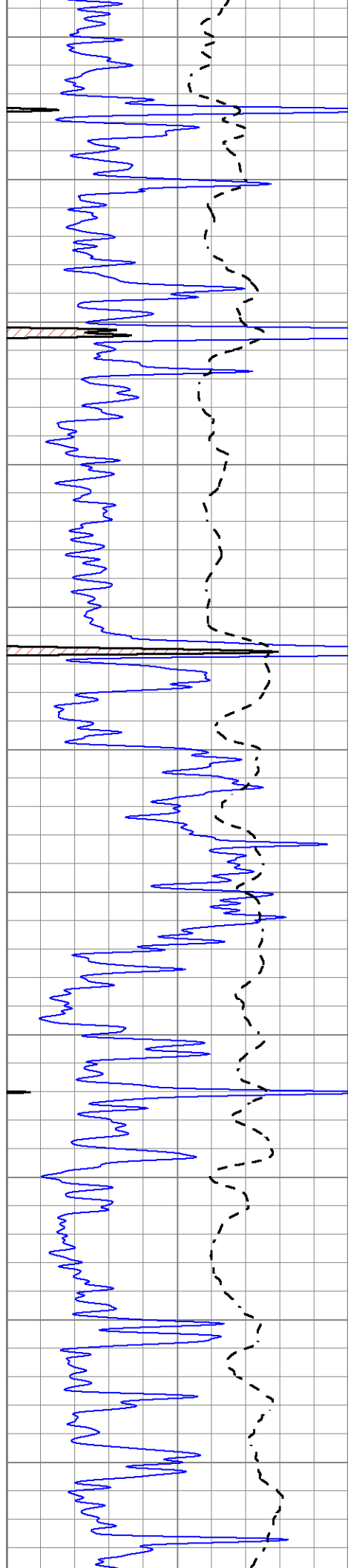
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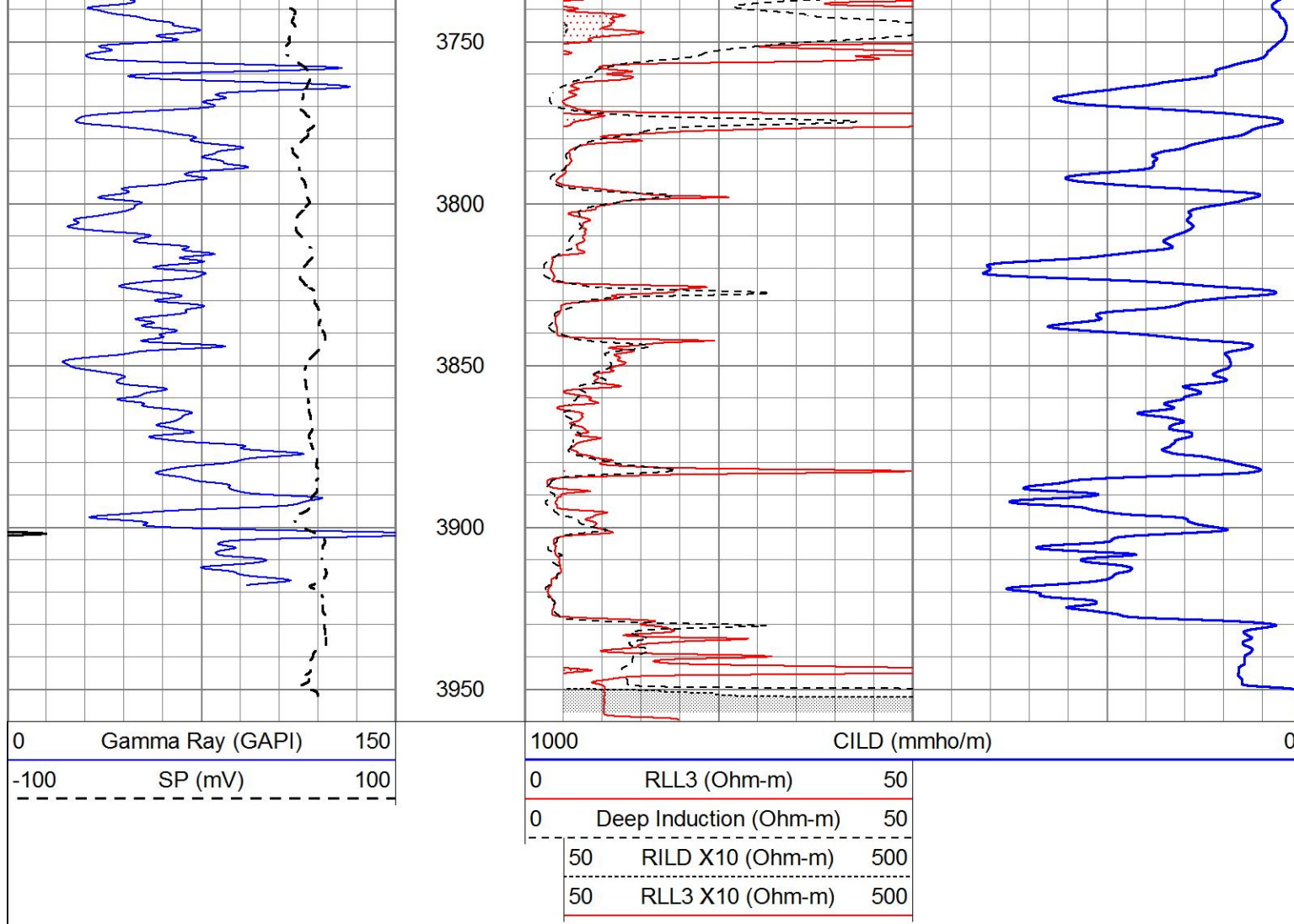
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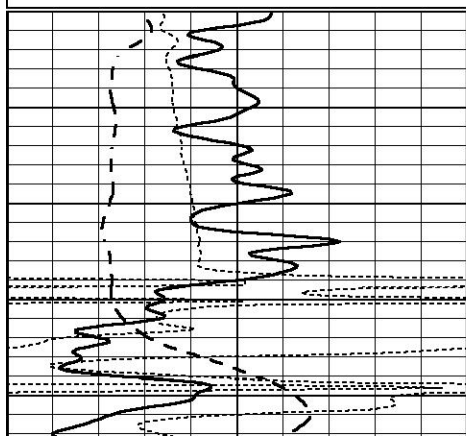




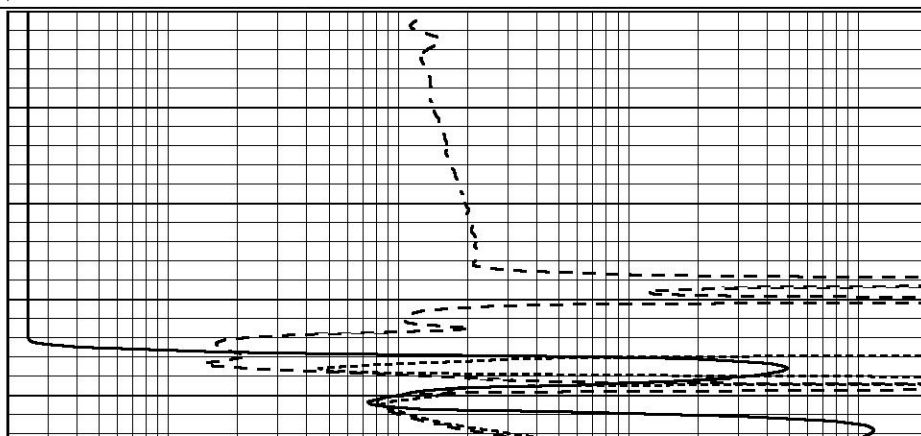
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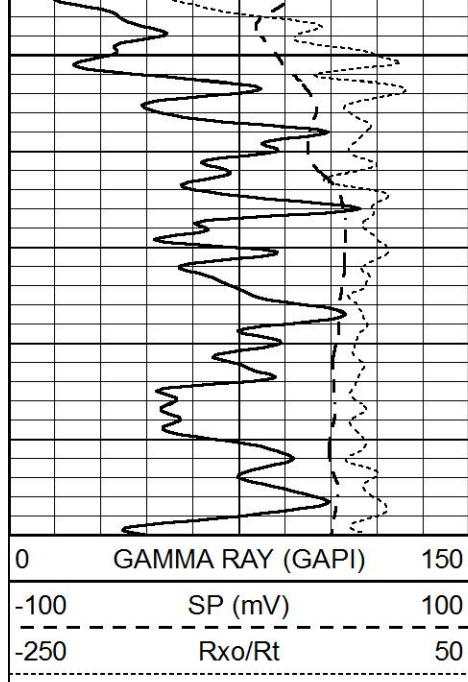
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 Dataset Pathname pass7.2
 Presentation Format _dil
 Dataset Creation Fri Oct 16 20:18:07 2020
 Charted by Depth in Feet scaled 1:240

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



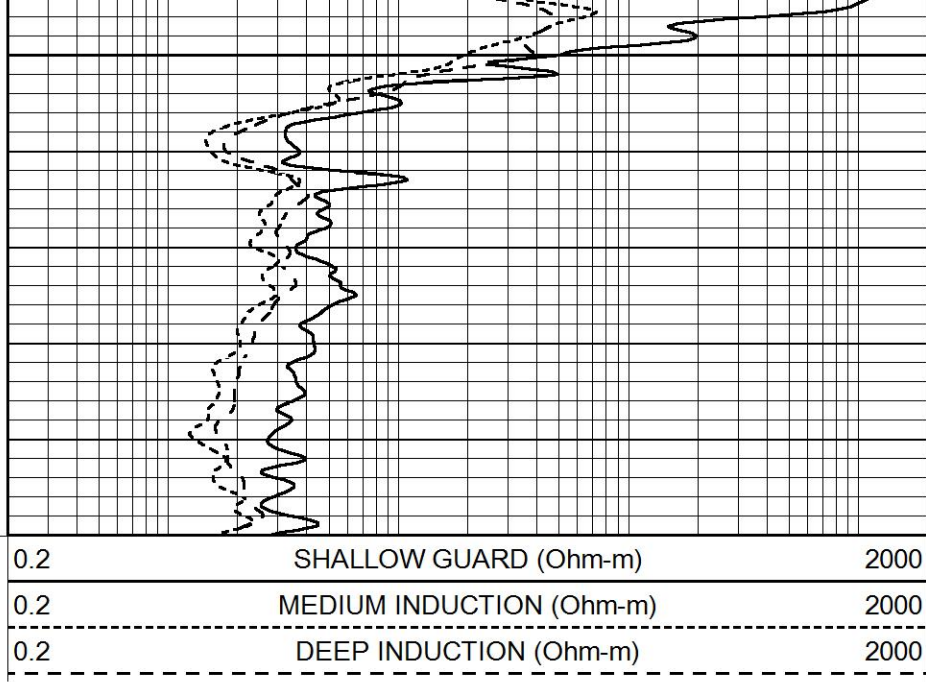
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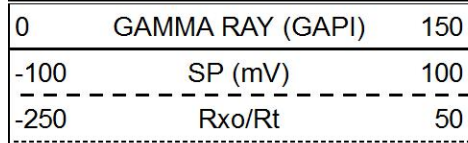
1000

1050



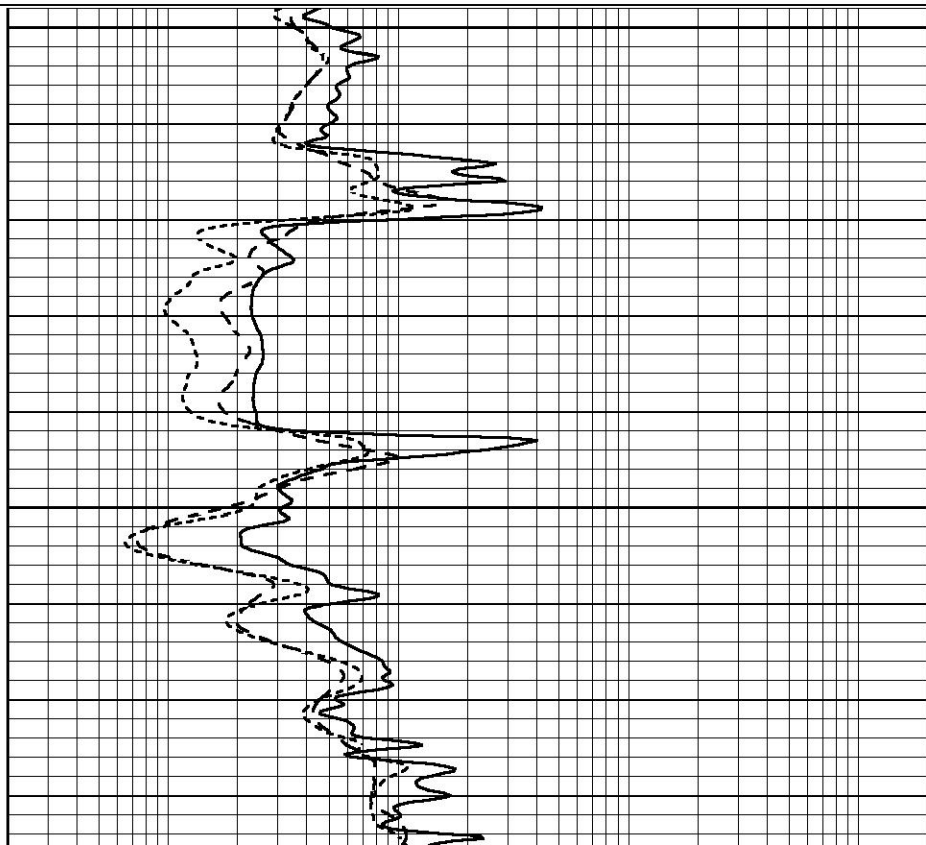
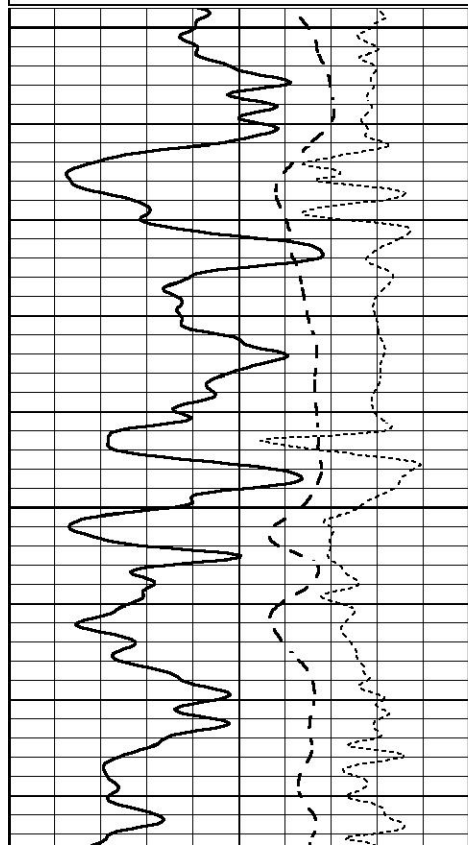
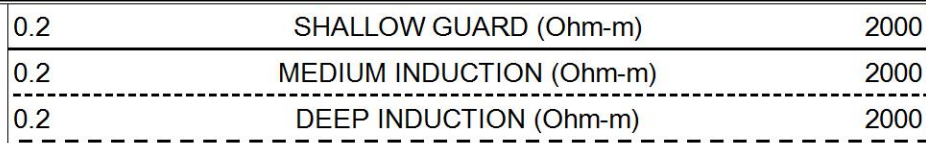
MAIN SECTION

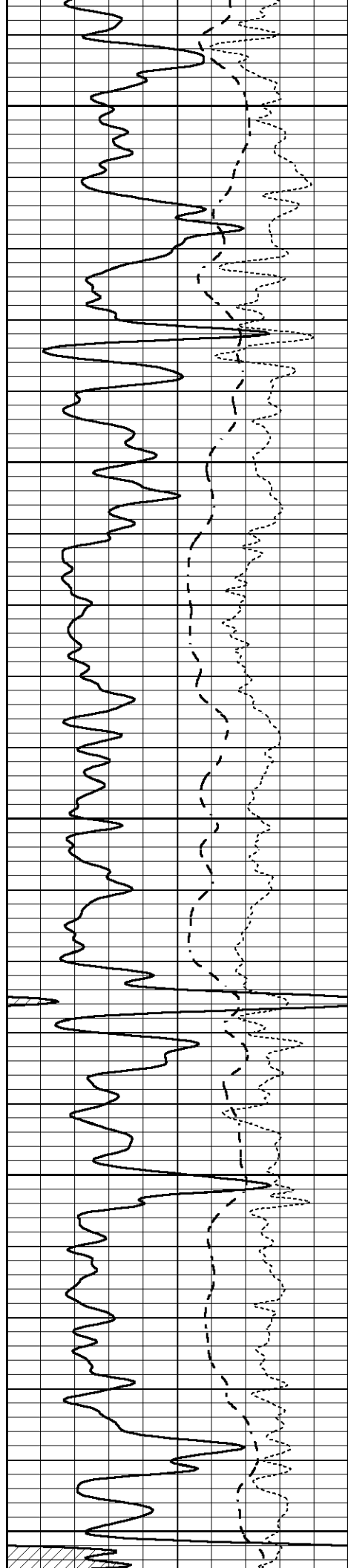
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 Dataset Pathname pass7.1
 Presentation Format _dil
 Dataset Creation Fri Oct 16 19:42:40 2020
 Charted by Depth in Feet scaled 1:240



3000

3050





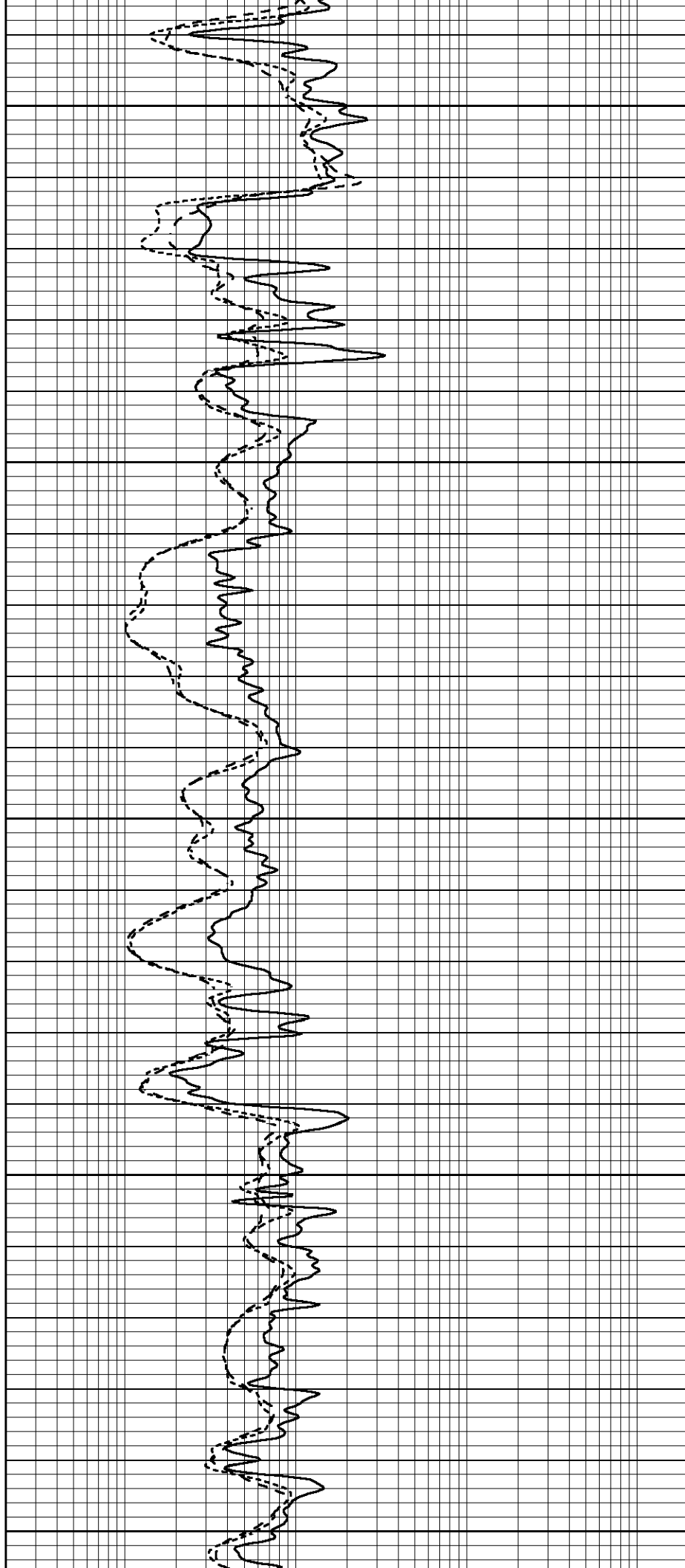
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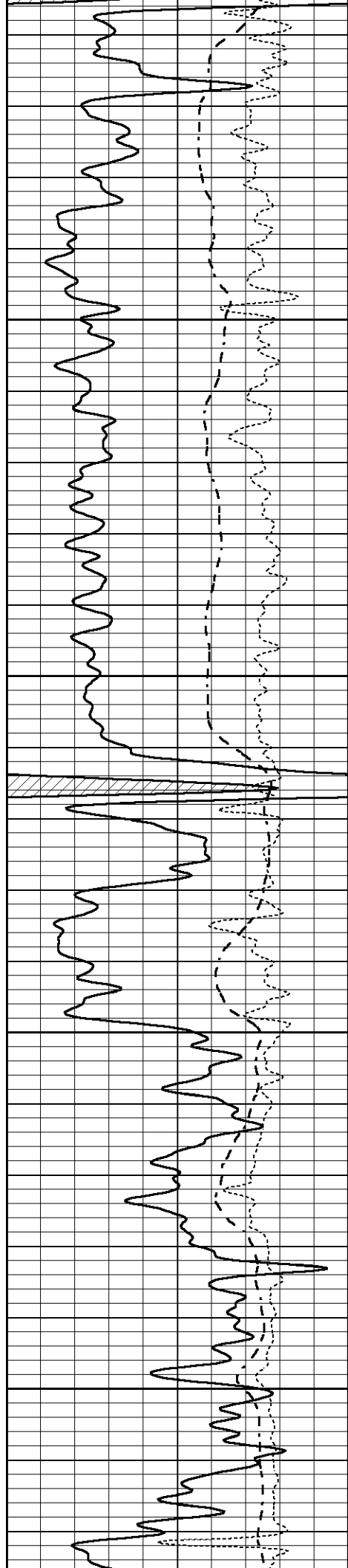
3150

3200

3250

3300



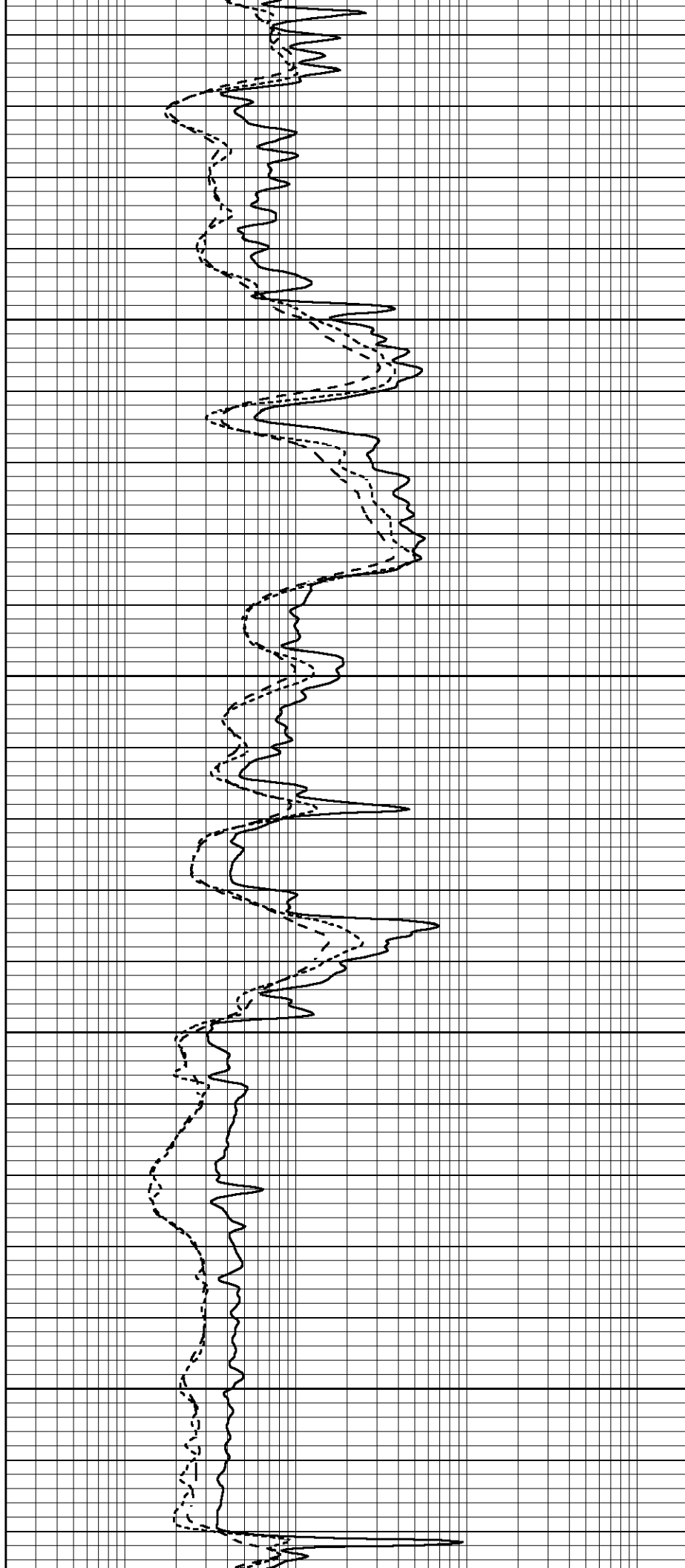


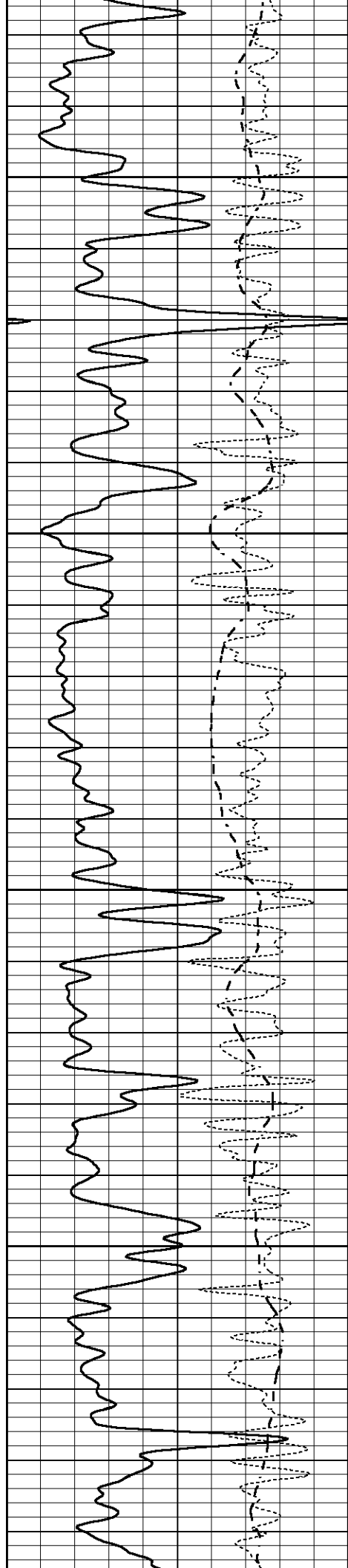
3350

3400

3450

3500



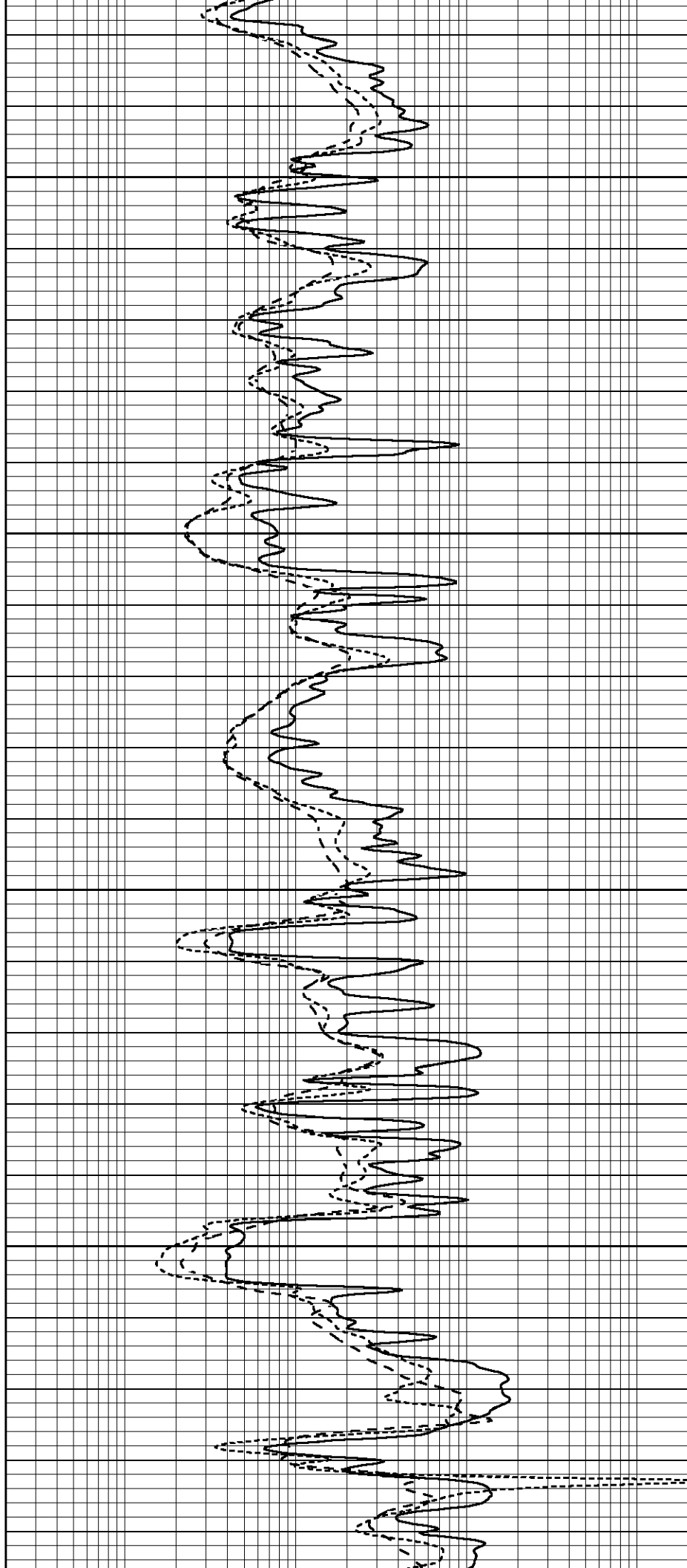


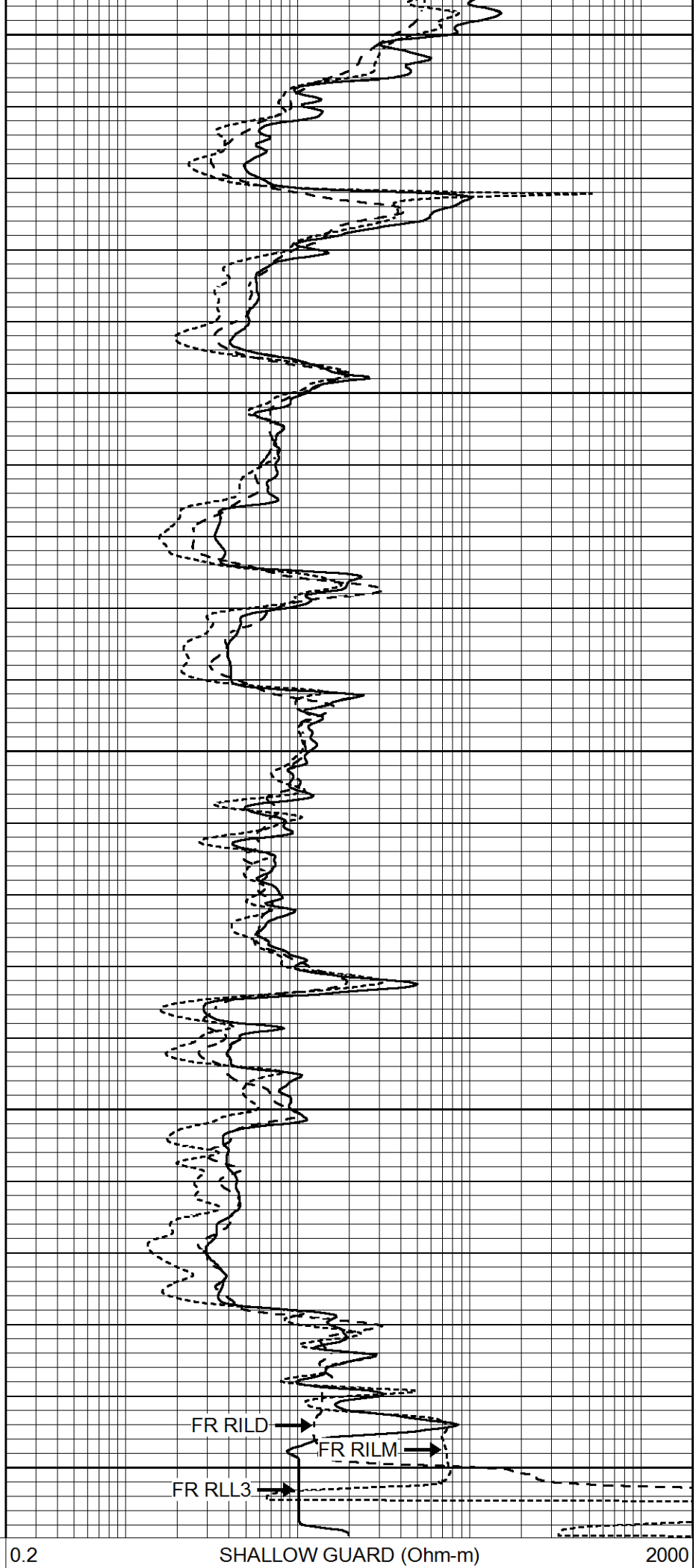
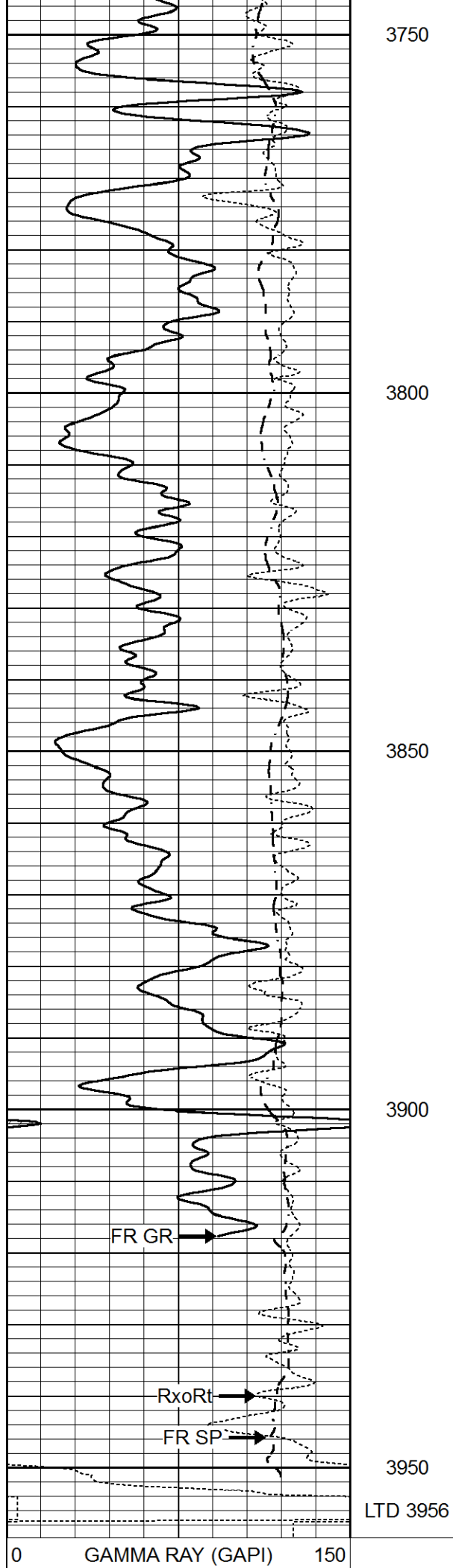
3550

3600

3650

3700





-100	SP (mV)	100
-250	Rxo/Rt	50

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

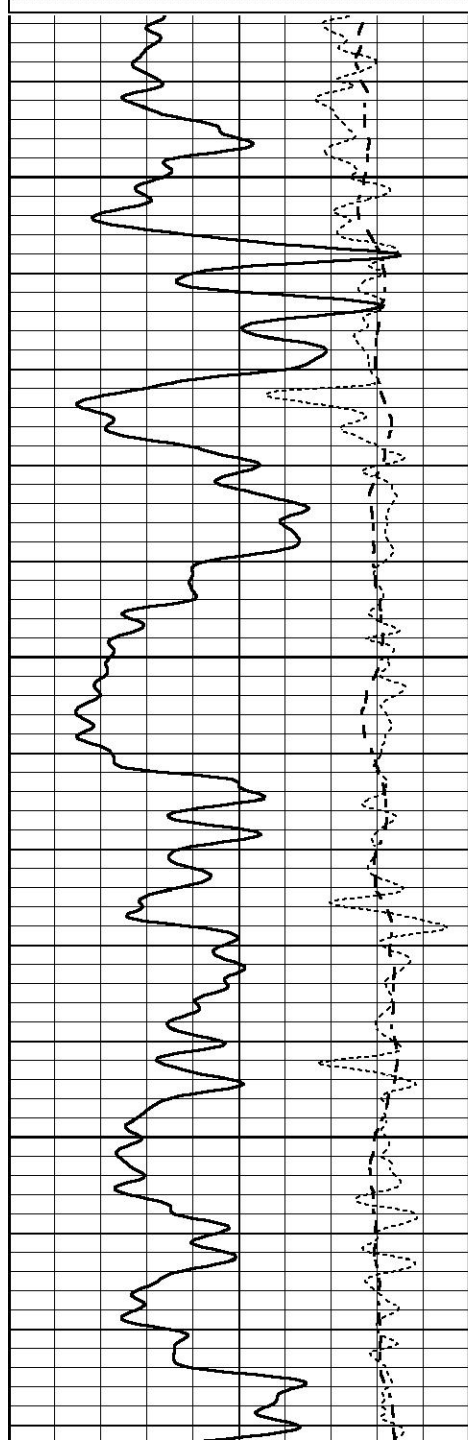


REPEAT SECTION

Database File 5231ddn.db
 Dataset Pathname pass6.1
 Presentation Format _dil
 Dataset Creation Fri Oct 16 19:41:48 2020
 Charted by Depth in Feet scaled 1:240

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

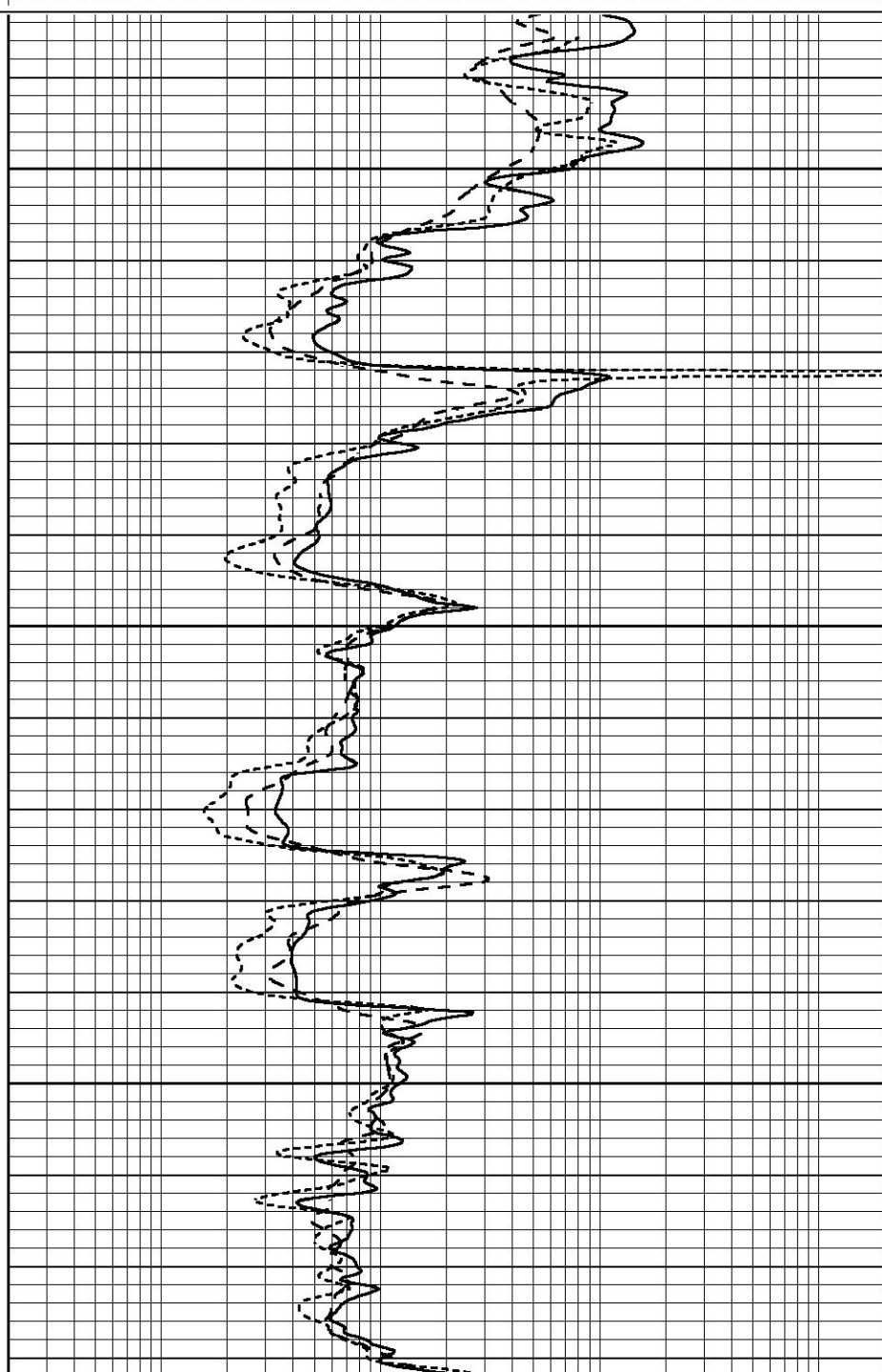
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

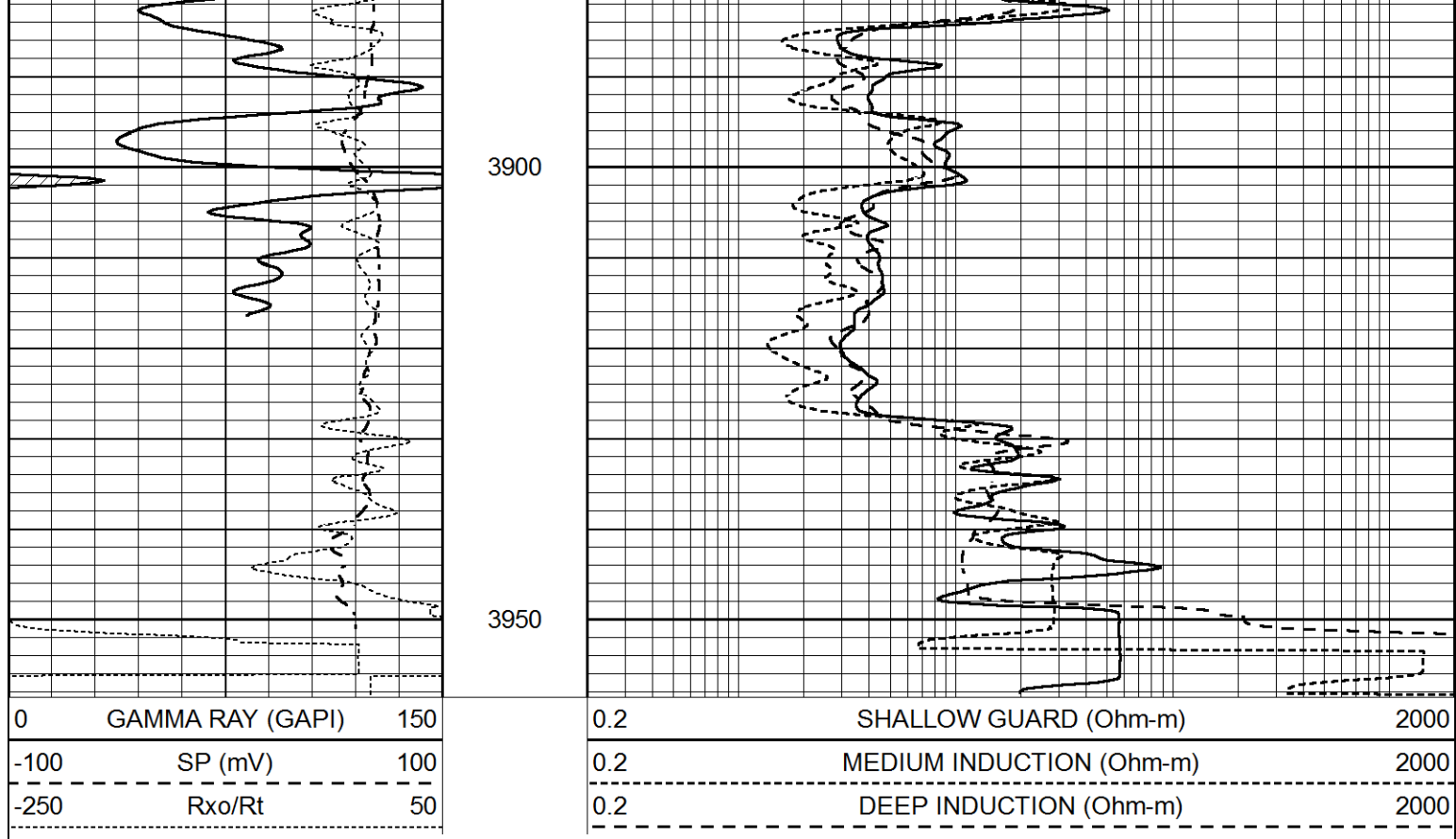


3750

3800

3850





Calibration Report									
Database File	5231ddn.db								
Dataset Pathname	pass7.1								
Dataset Creation	Fri Oct 16 19:42:40 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									
Readings				References			Results		
Loop:	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		

	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
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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