



DUAL
INDUCTION
LOG

Company		DARRAH OIL COMPANY, LLC.	
Well	GAUNT 32 A #1		
Field	HISS		
County	BARTON		
State	KANSAS		
Location:		API # : 15-009-26239-0000	Other Services CDL/CNL MEL/SON
SEC 32 TWP 20S RGE 13W			
Permanent Datum	GROUND LEVEL Elevation		1893
Log Measured From	KELLY BUSHING 5' A.G.L		
Drilling Measured From	KELLY BUSHING		
Date	11/13/18		
Run Number	ONE		
Depth Driller	3730		
Depth Logger	3732		
Bottom Logged Interval	3730		
Top Log Interval	00		
Casing Driller	8 5/8" @ 303		
Casing Logger	303		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	8.6/55		
pH / Fluid Loss	NA		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.65 @ 71F		
Rmf @ Meas. Temp	.48 @ 71F		
Rmc @ Meas. Temp	.78 @ 71F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.40 @ 114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	114F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPELLUCCI		
Witnessed By	SETH EVENSON		

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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

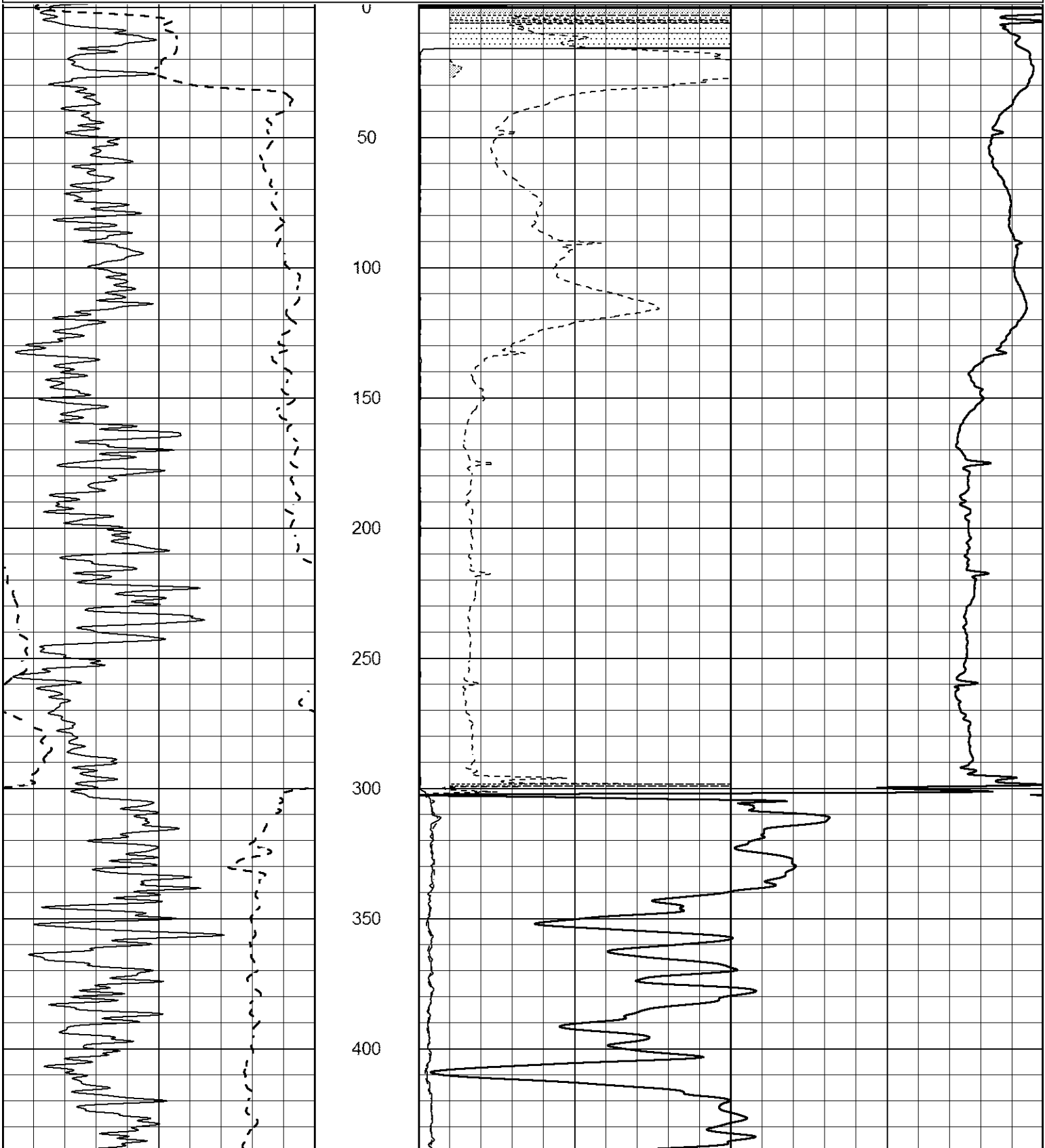
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
GREAT BEND, KS. - 6 SOUTH TO RD. 60 - 1 WEST - 1/2 SOUTH - WEST INTO

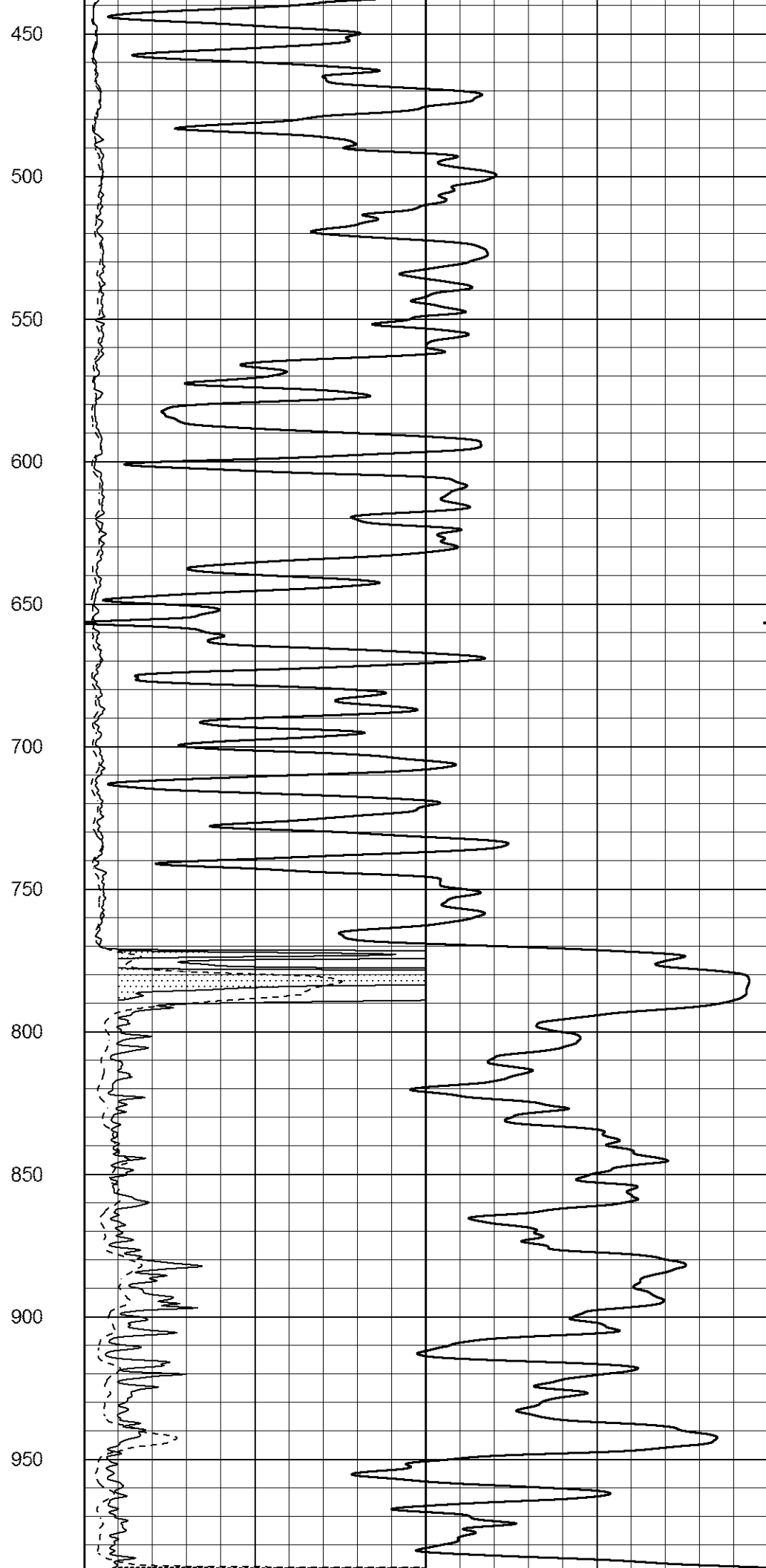
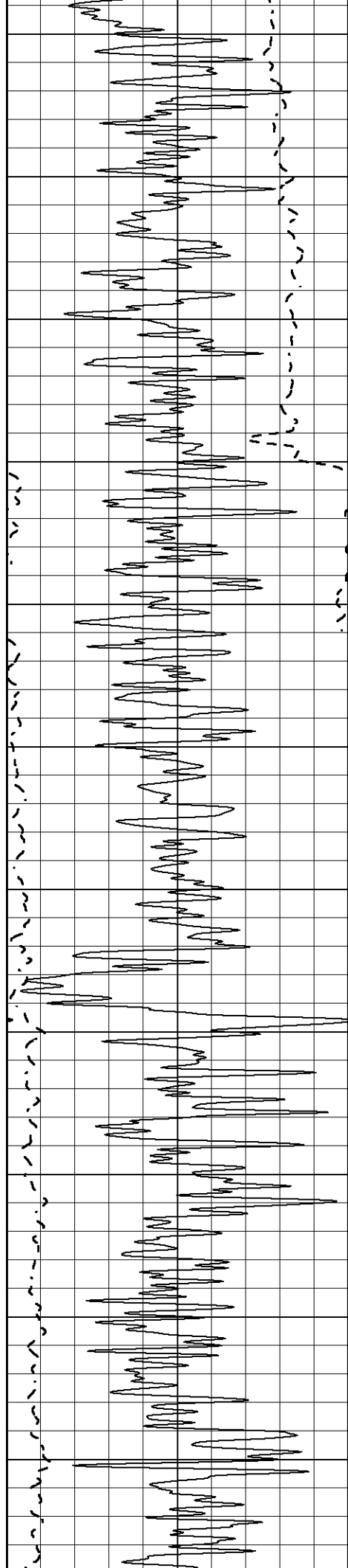


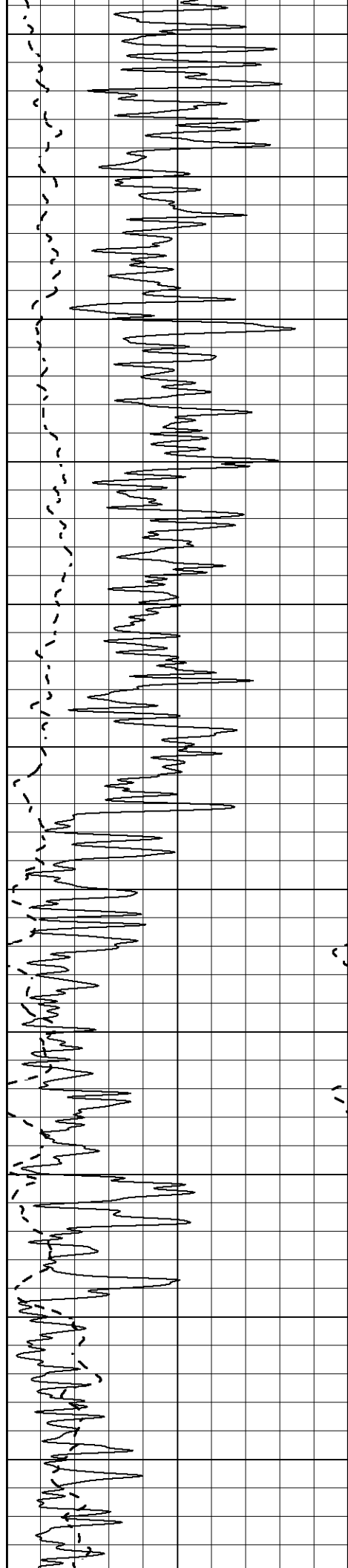
MAIN SECTION

Database File	3017ddn8.db
Dataset Pathname	pass3.3
Presentation Format	_dil2
Dataset Creation	Tue Nov 13 19:29:53 2018
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

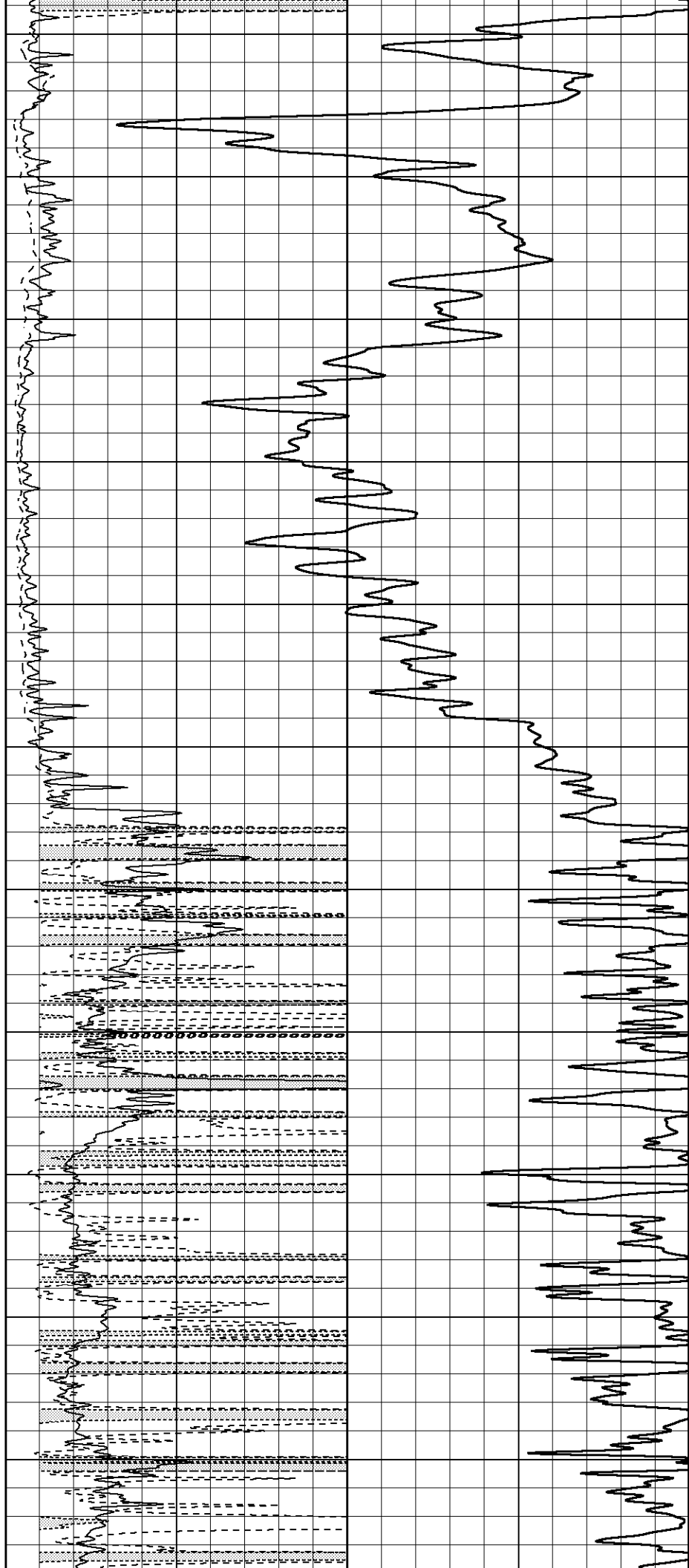
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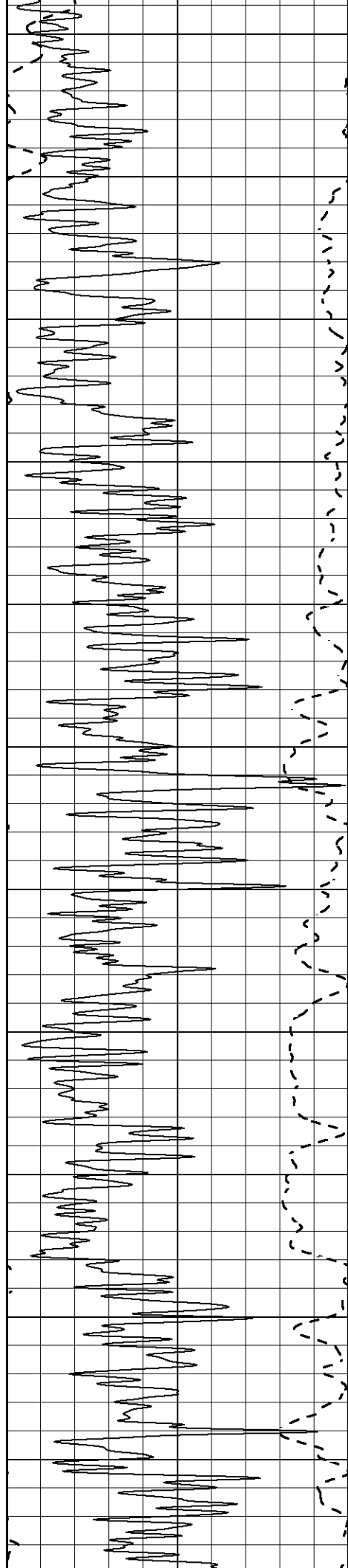
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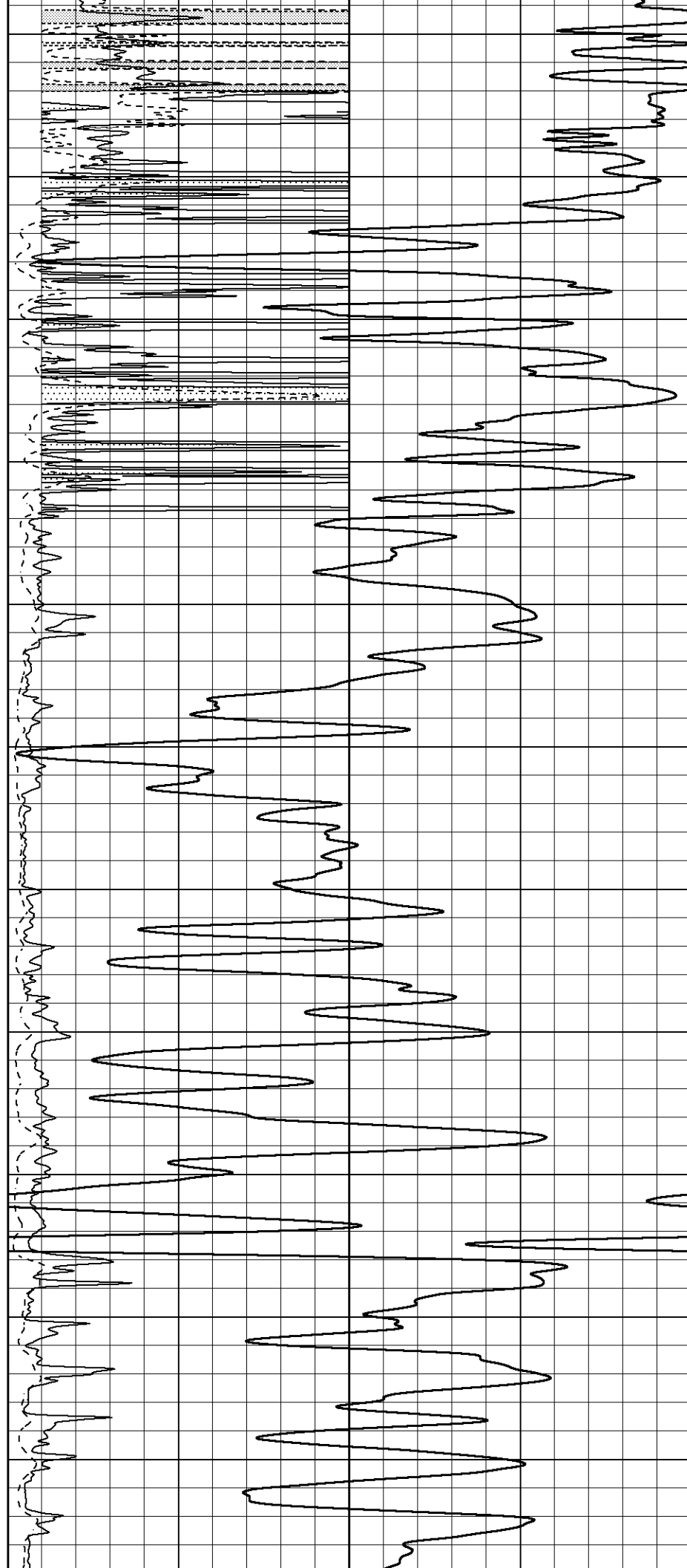
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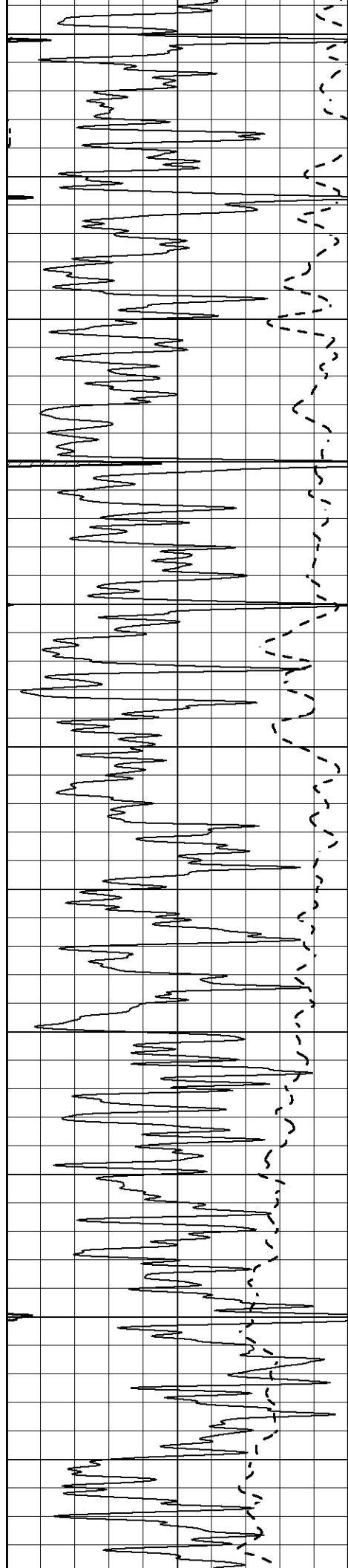
1500





1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050





2100

2150

2200

2250

2300

2350

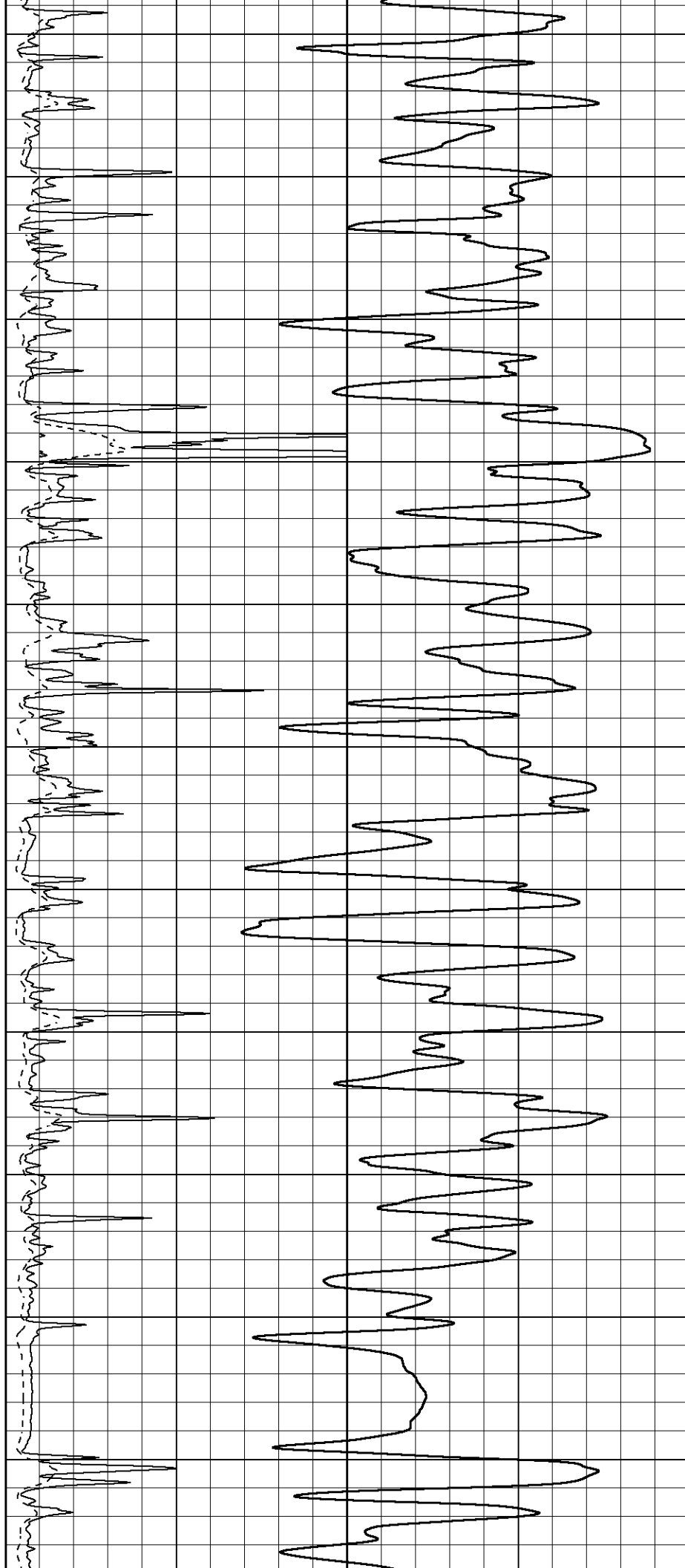
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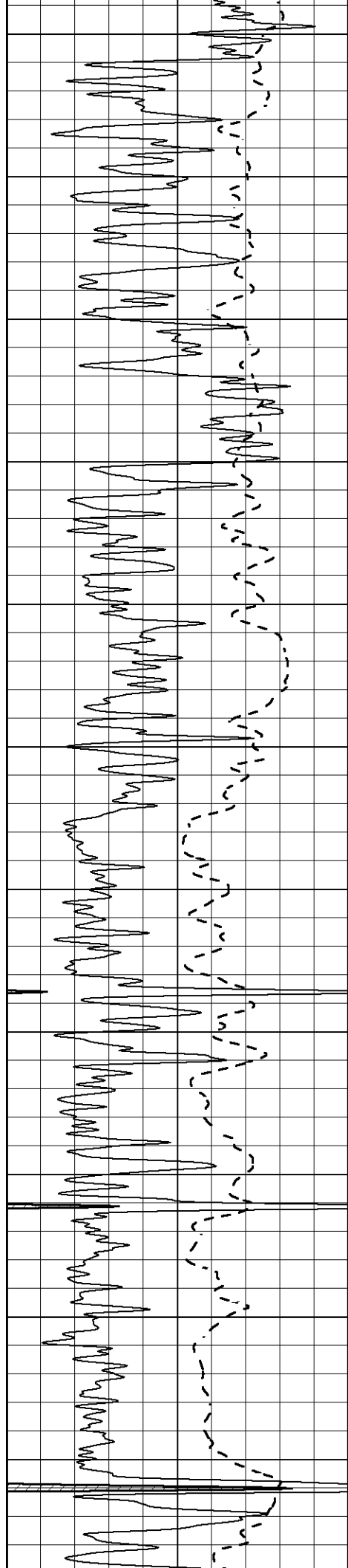
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2500

2550

2600





2650

2700

2750

2800

2850

2900

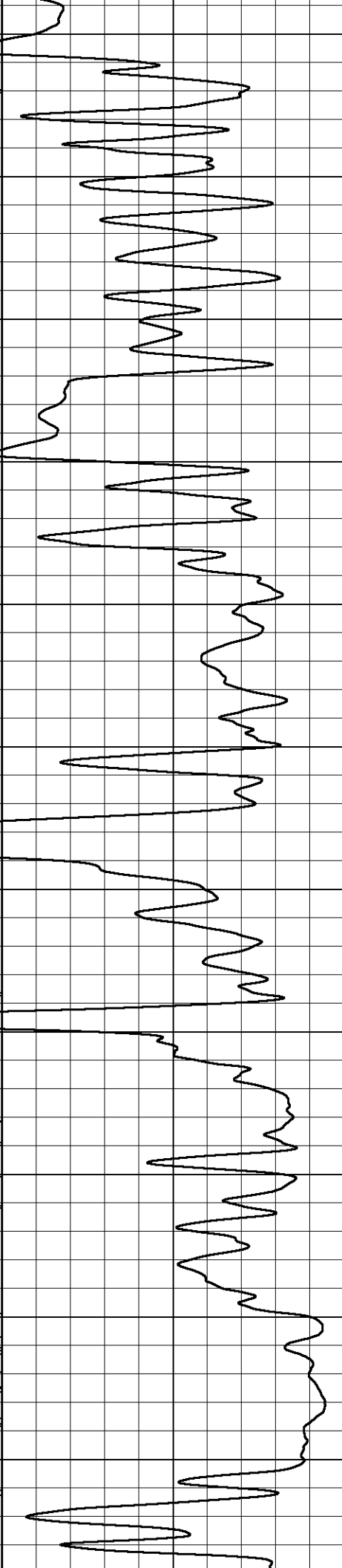
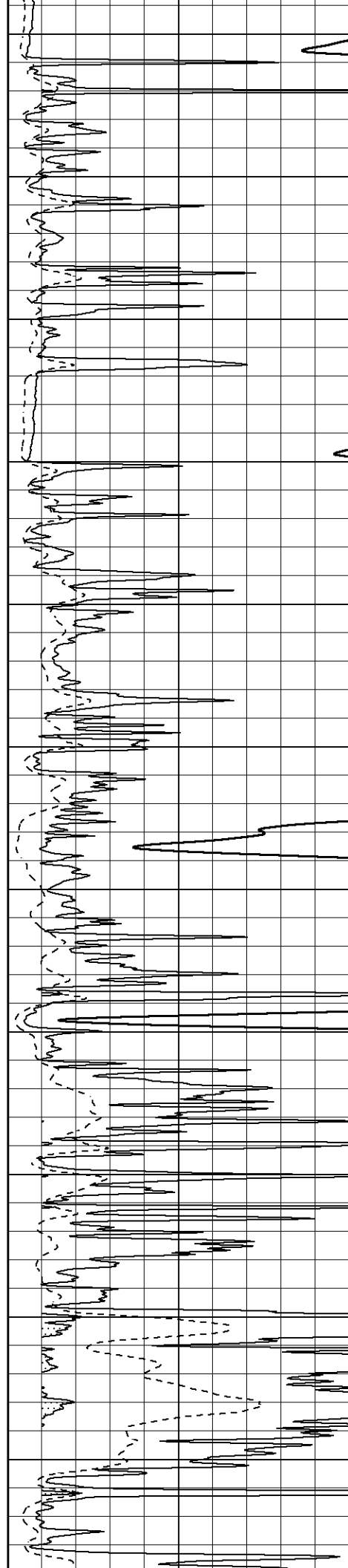
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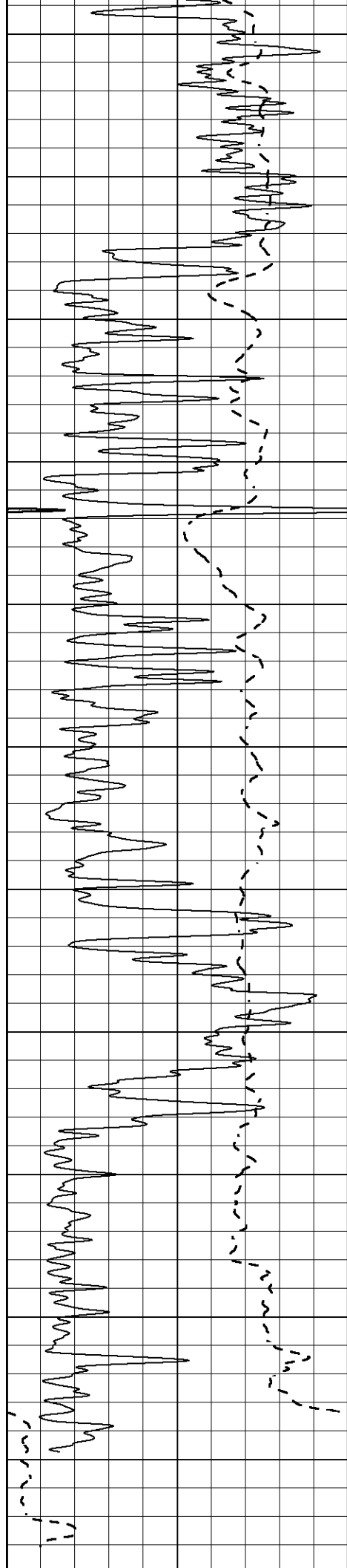
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3050

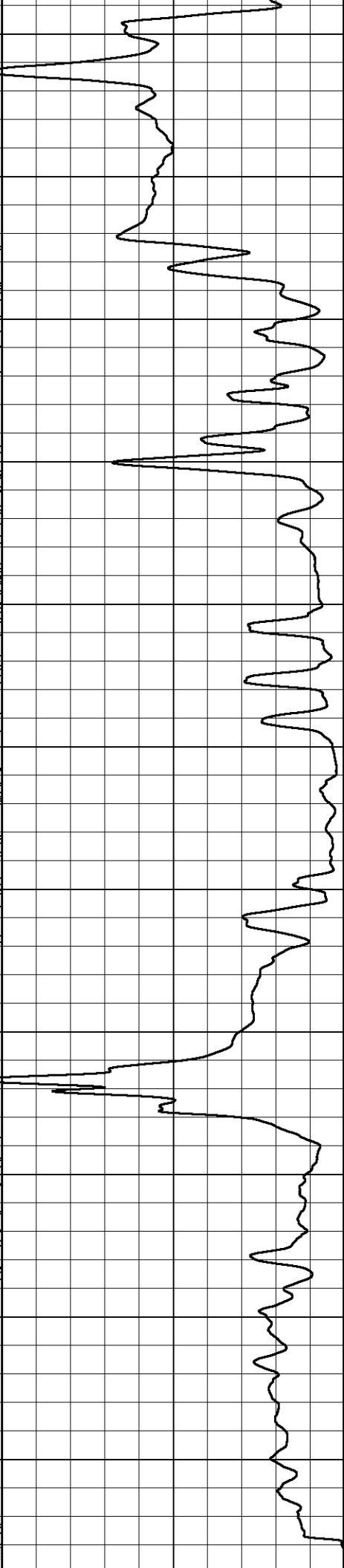
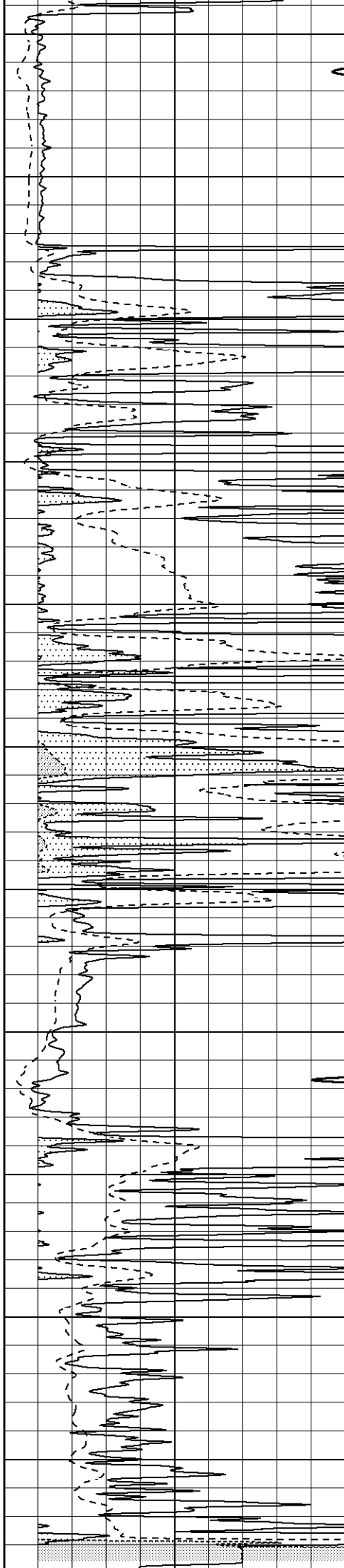
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3150



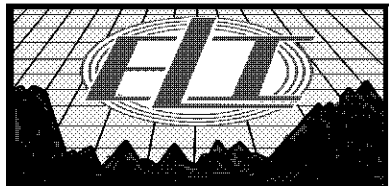


3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700



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

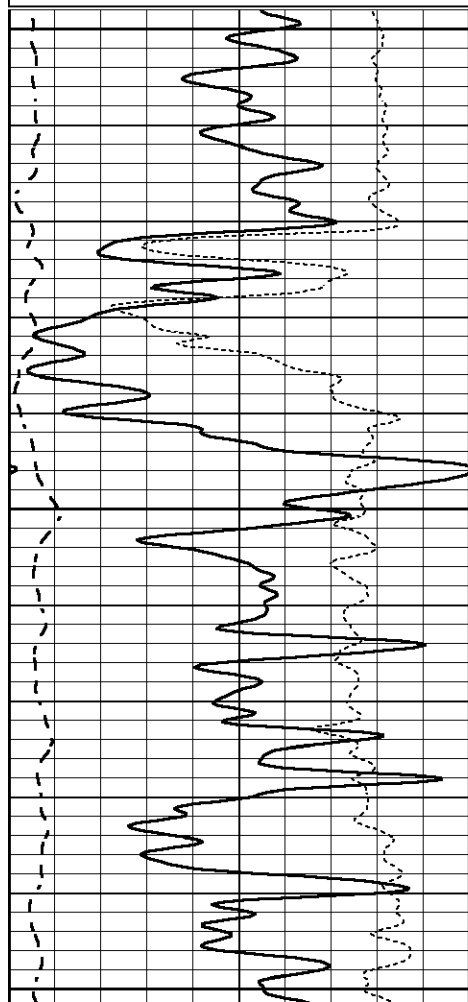


ANHYDRITE

Database File 3017ddn8.db
 Dataset Pathname pass3.2
 Presentation Format _dil
 Dataset Creation Tue Nov 13 19:15:04 2018
 Charted by Depth in Feet scaled 1:240

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

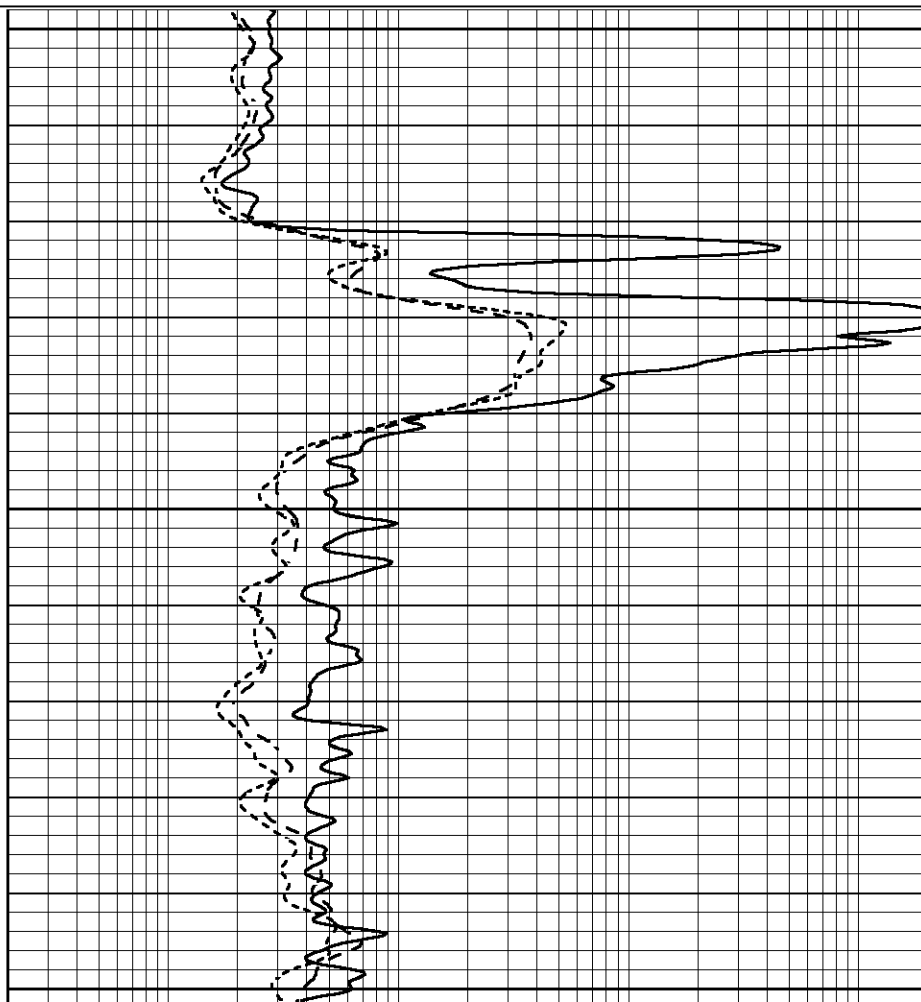
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



750

800

850

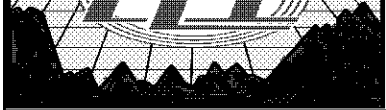


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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



MAIN SECTION

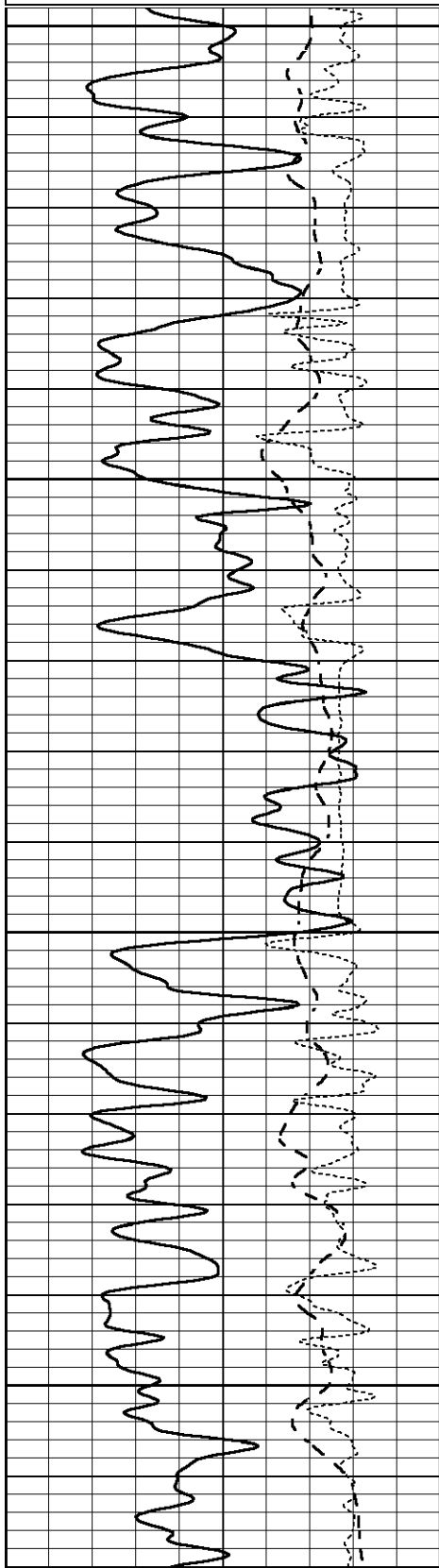


MAIN SECTION

Database File 3017ddn8.db
Dataset Pathname pass3.1.1
Presentation Format _dil
Dataset Creation Tue Nov 13 19:13:13 2018
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

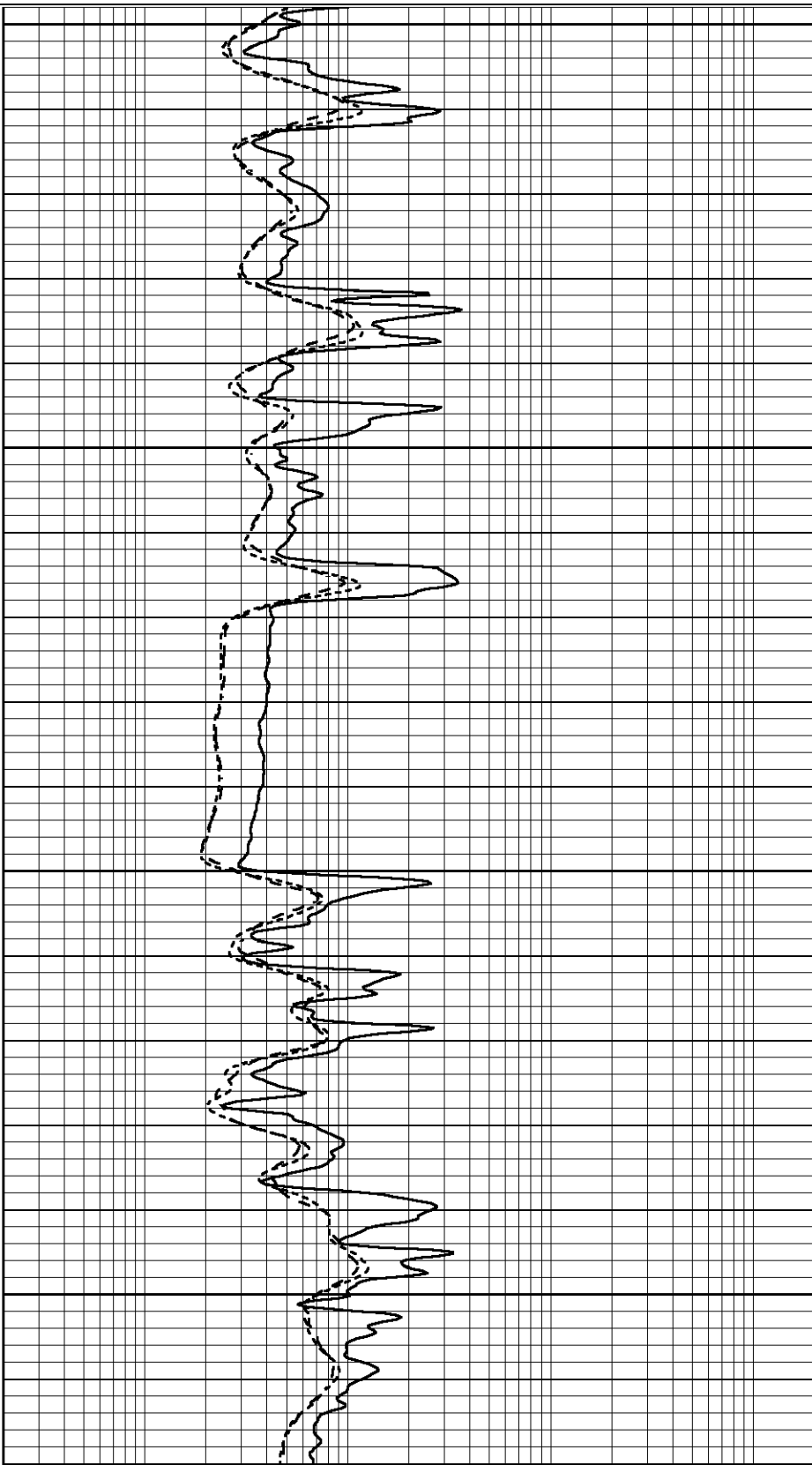


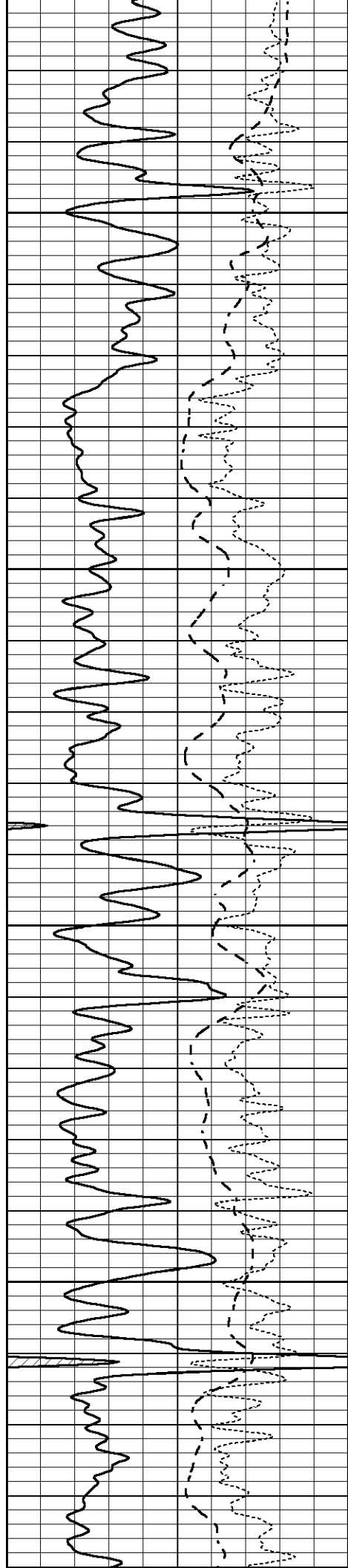
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2750

2800

2850



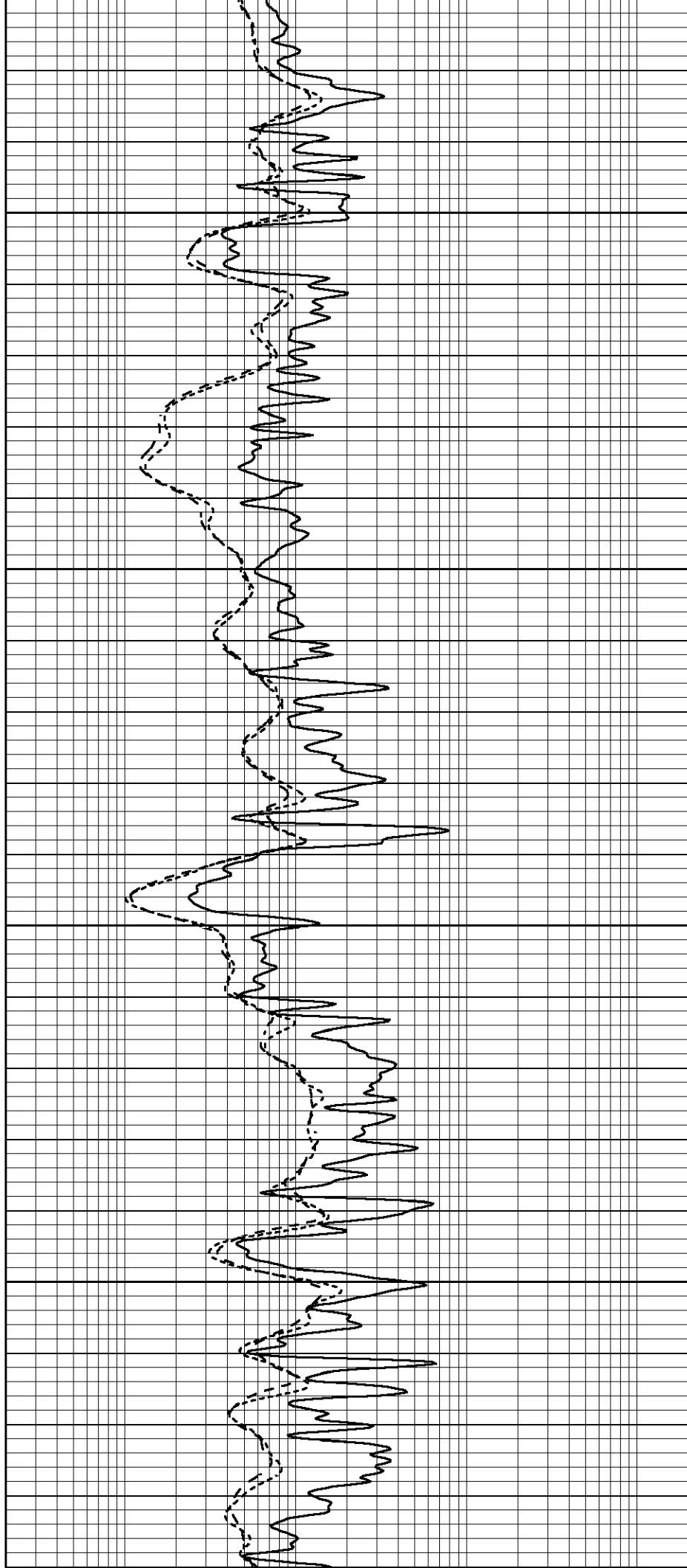


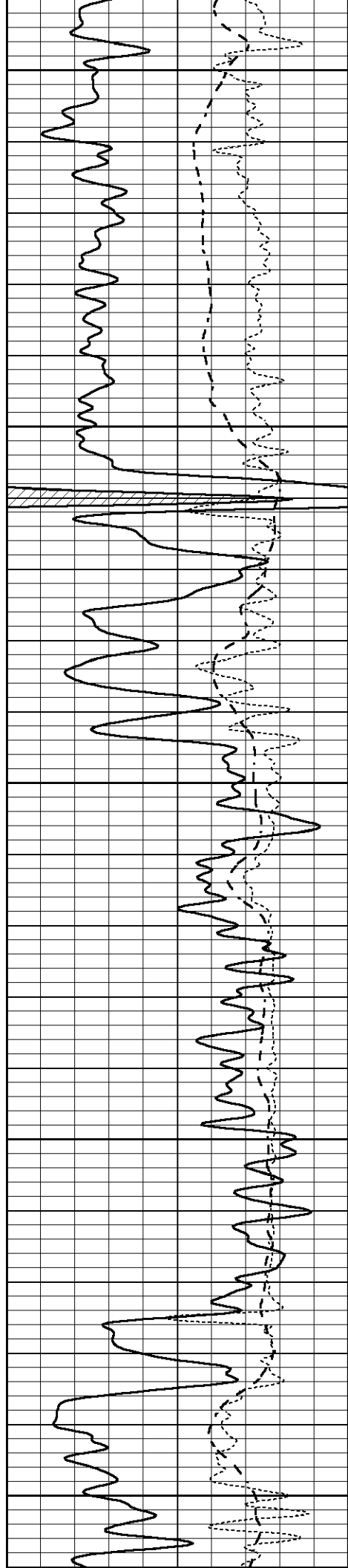
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2950

3000

3050





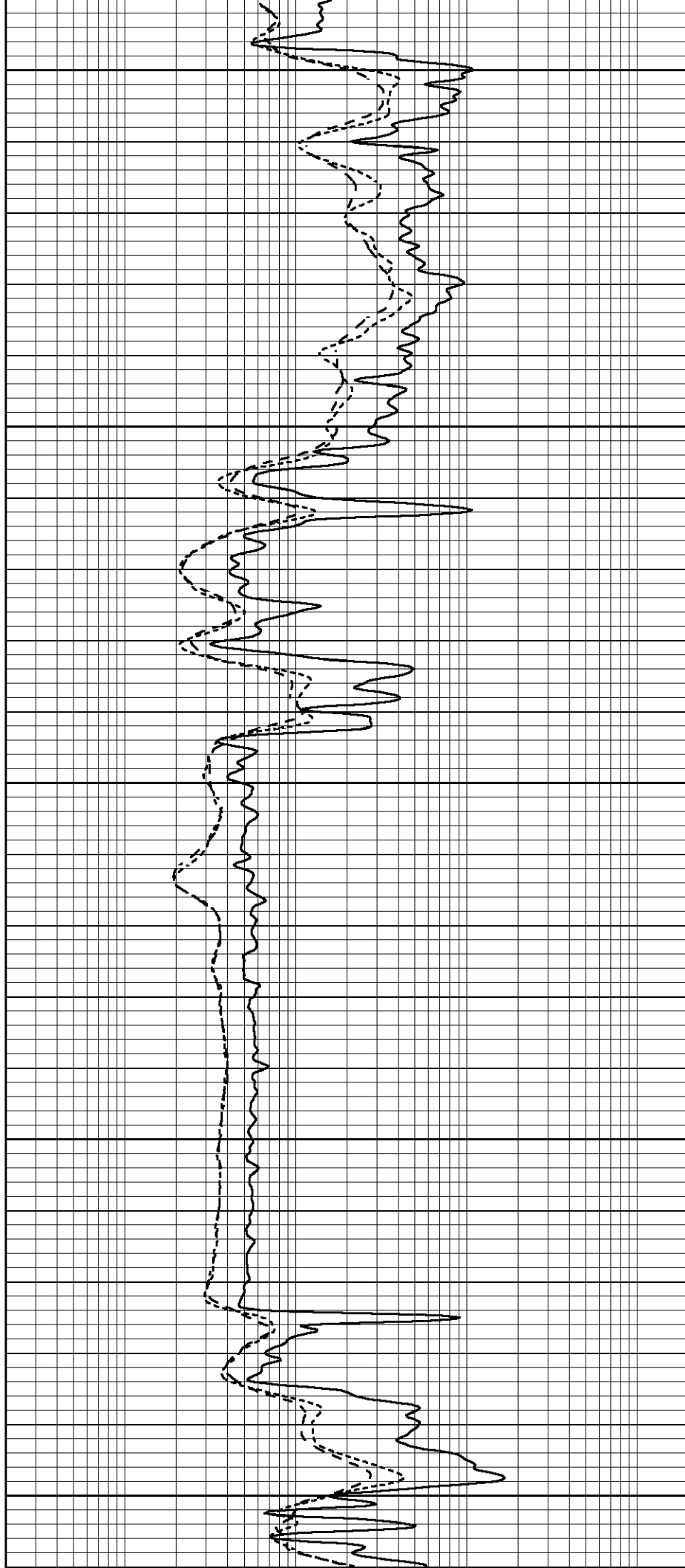
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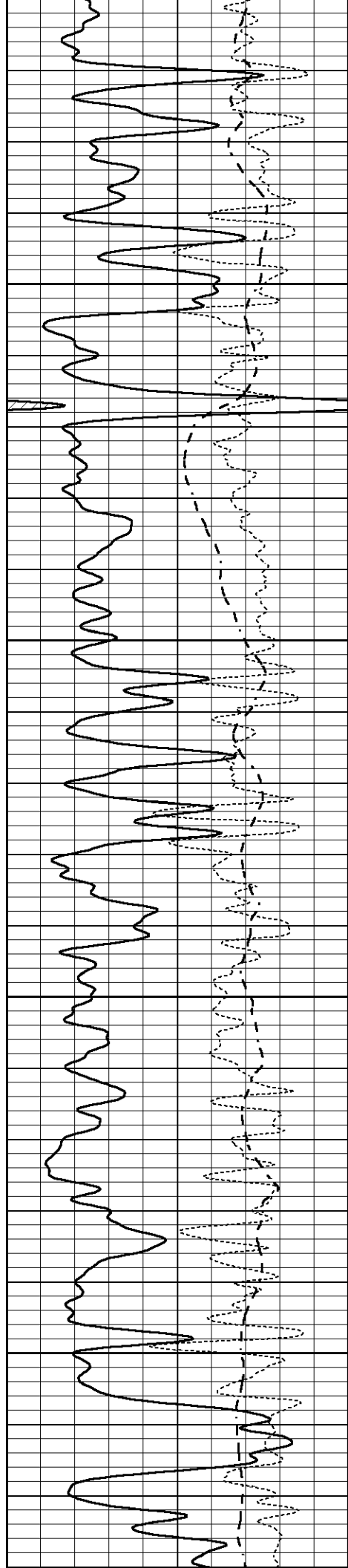
3150

3200

3250

3300



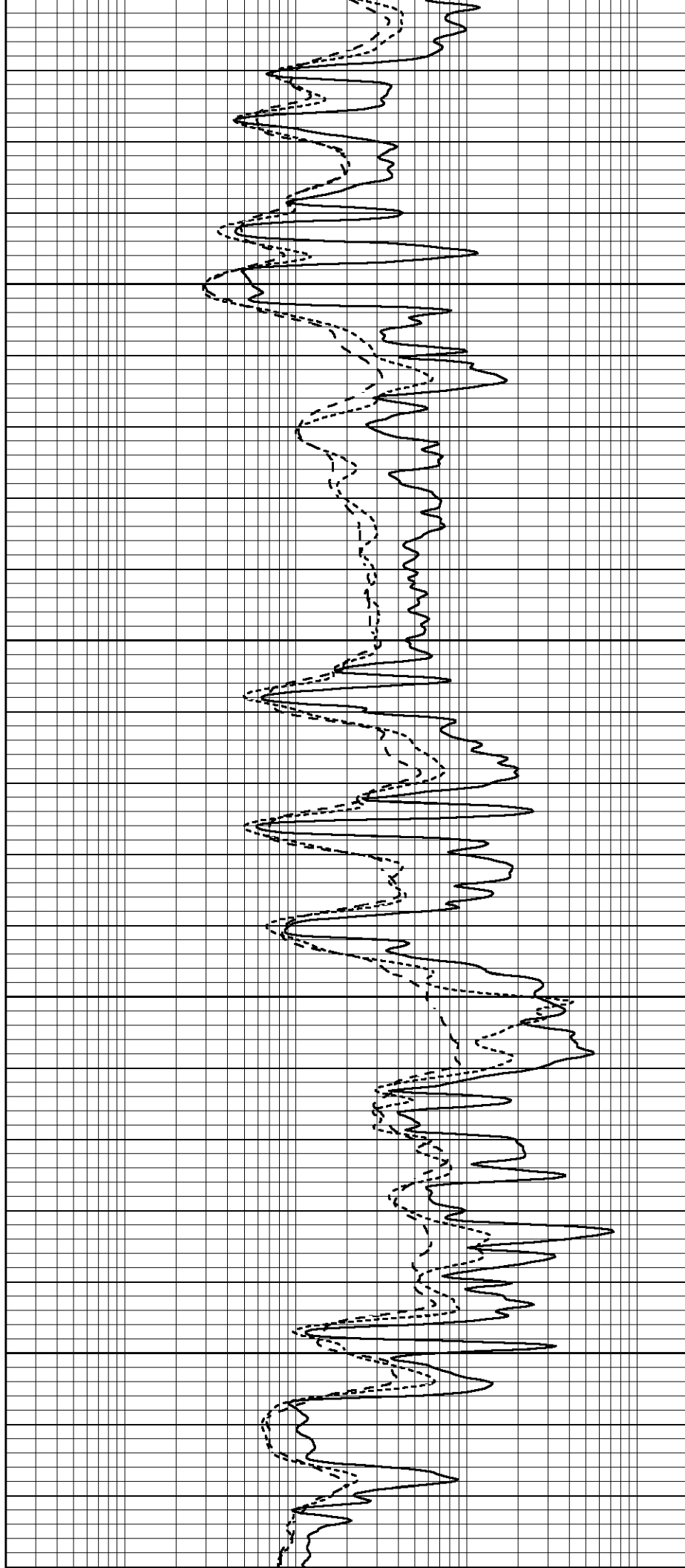


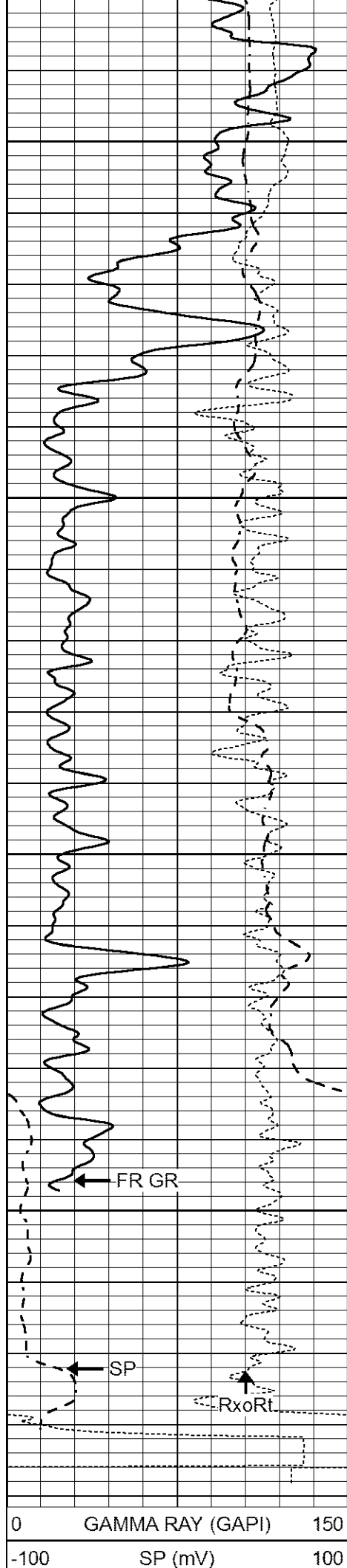
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3400

3450

3500





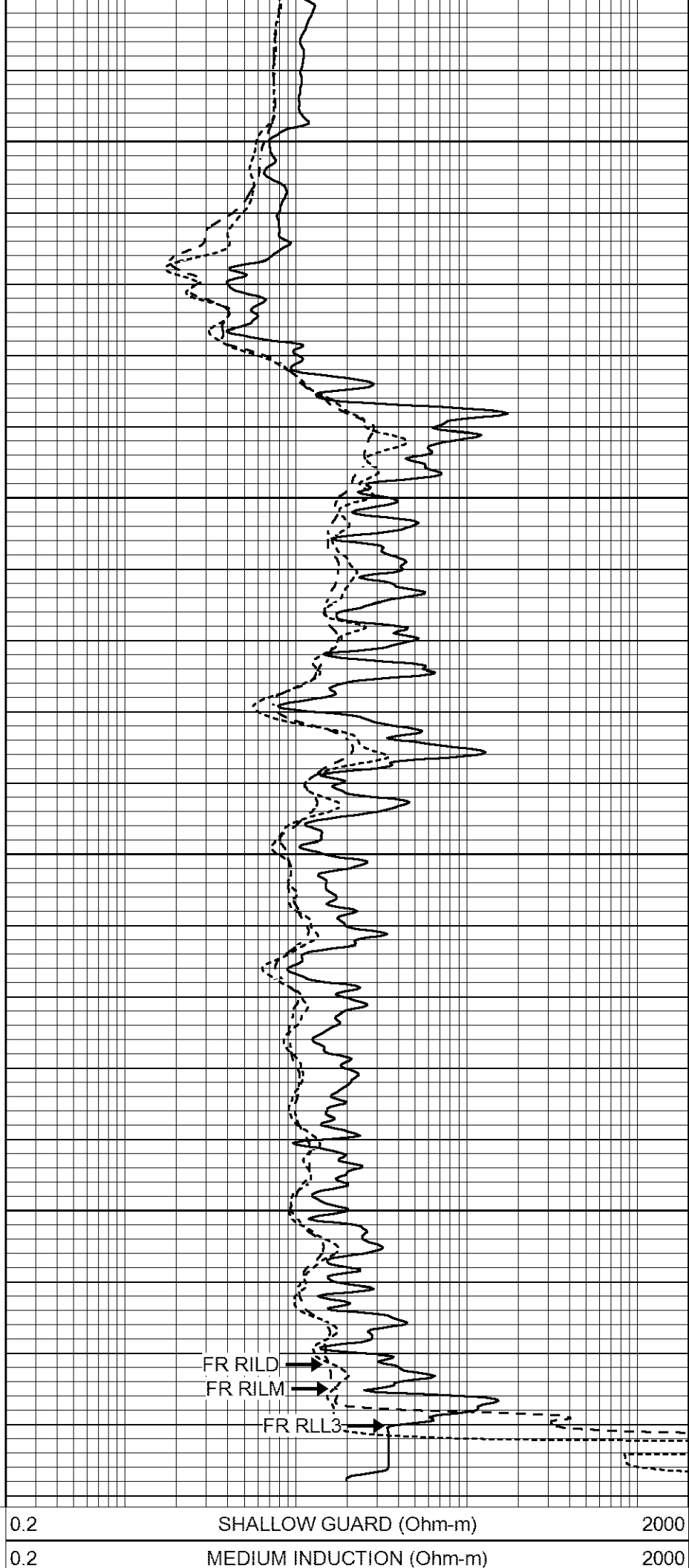
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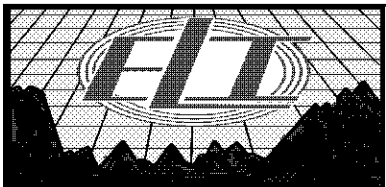
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3650

3700

LTD 3732

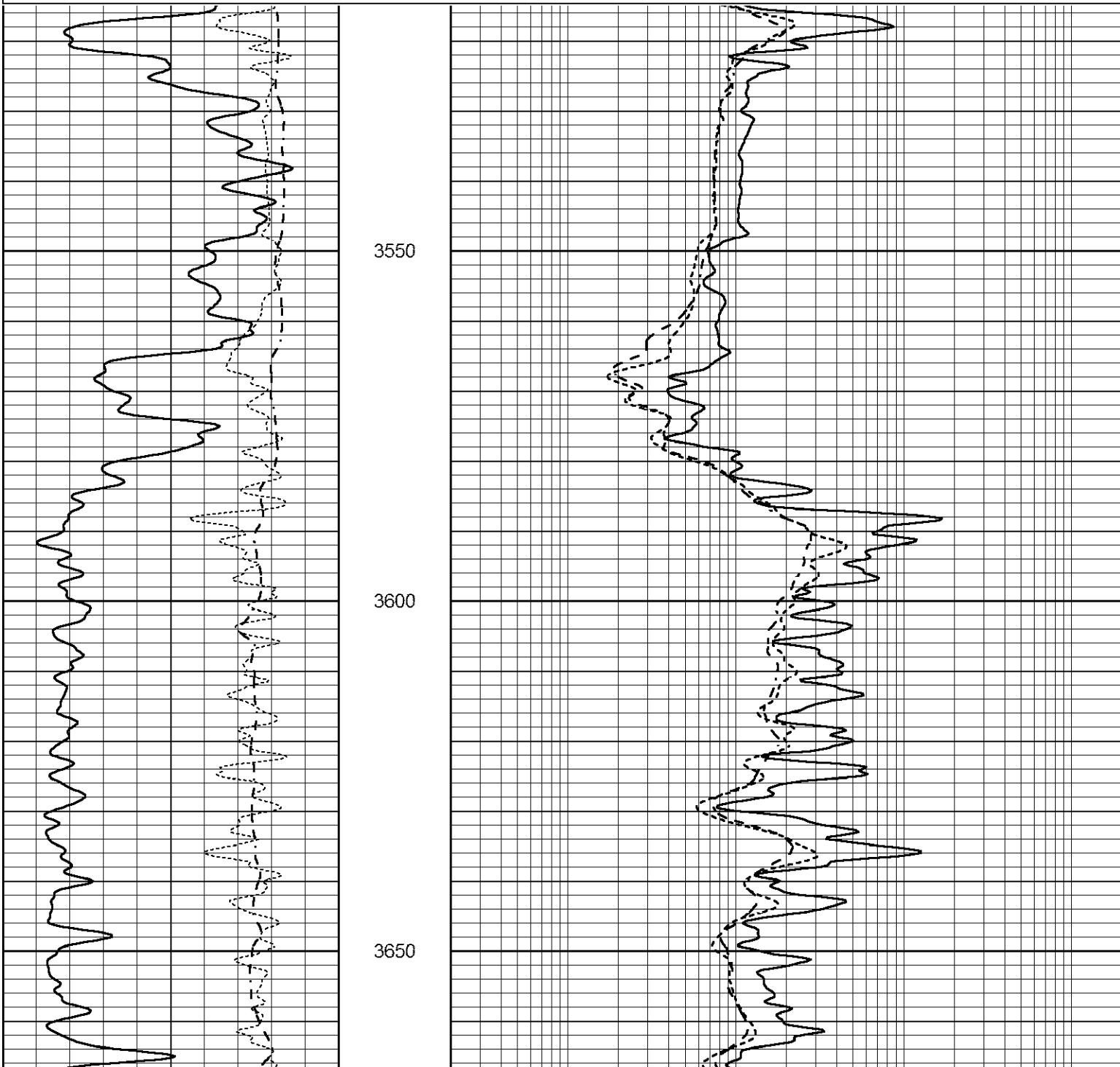


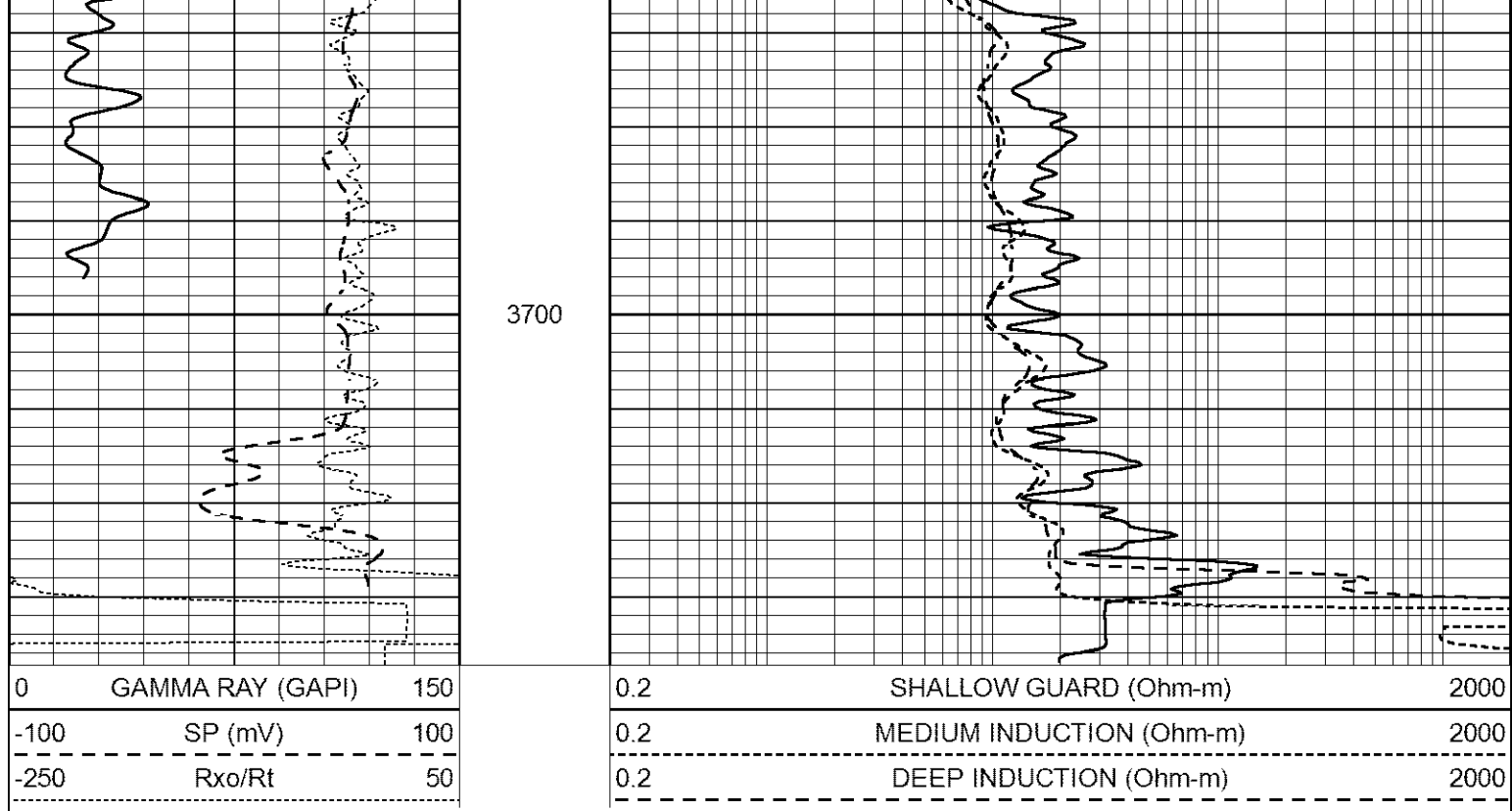


REPEAT SECTION

Database File 3017ddn8.db
Dataset Pathname pass2.1
Presentation Format _dil
Dataset Creation Tue Nov 13 18:56:02 2018
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





Calibration Report									
Database File	3017ddn8.db								
Dataset Pathname	pass2.1								
Dataset Creation	Tue Nov 13 18:56:02 2018								
Dual Induction Calibration Report									
Serial-Model:					FW1410-55-Probe				
Surface Cal Performed:					Mon May 22 14:23:32 2017				
Downhole Cal Performed:					Thu Mar 12 09:29:20 2015				
After Survey Verification Performed:					Thu Mar 12 09:29:20 2015				
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'	

	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		

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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:	Wed Jun 29 11:10:58 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4300	GAPI/cps