

DUAL INDUCTION LOG

Company CASTLE RESOURCES, INC.

Well HOLSTE #1

Field WILDCAT

County RAWLINS

State KANSAS

Location: API # : 15-153-21218-0000

Permanent Datum 330' FNL & 330' FWL
Log Measured From NW-NW-NW
Drilling Measured From KELLY BUSHING

SEC 23 TWP 2S RGE 33W

Elevation
K.B. 2975
D.F. 2973
G.L. 2970

Date 1/24/19

Run Number ONE

Depth Driller 4200

Depth Logger 4202

Bottom Logged Interval 4200

Top Log Interval 00

Casing Driller 8 5/8" @ 254'

Casing Logger 254

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 8.5/42

pH / Fluid Loss 11.5/8.0

Source of Sample FLOWLINE

Rm @ Meas. Temp .65 @ 55F

Rmt @ Meas. Temp .48 @ 55F

Rmc @ Meas. Temp .78 @ 55F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .30 @ 118F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 118F

Maximum Recorded Temperature 118F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By JASON CAPELLUCCI

Witnessed By JERRY GREEN

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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
ATWOOD, KS. - 2 1/2 NORTH TO RD. T.5 - 2 EAST TO THE T - 1 NORTH - EAST INTO



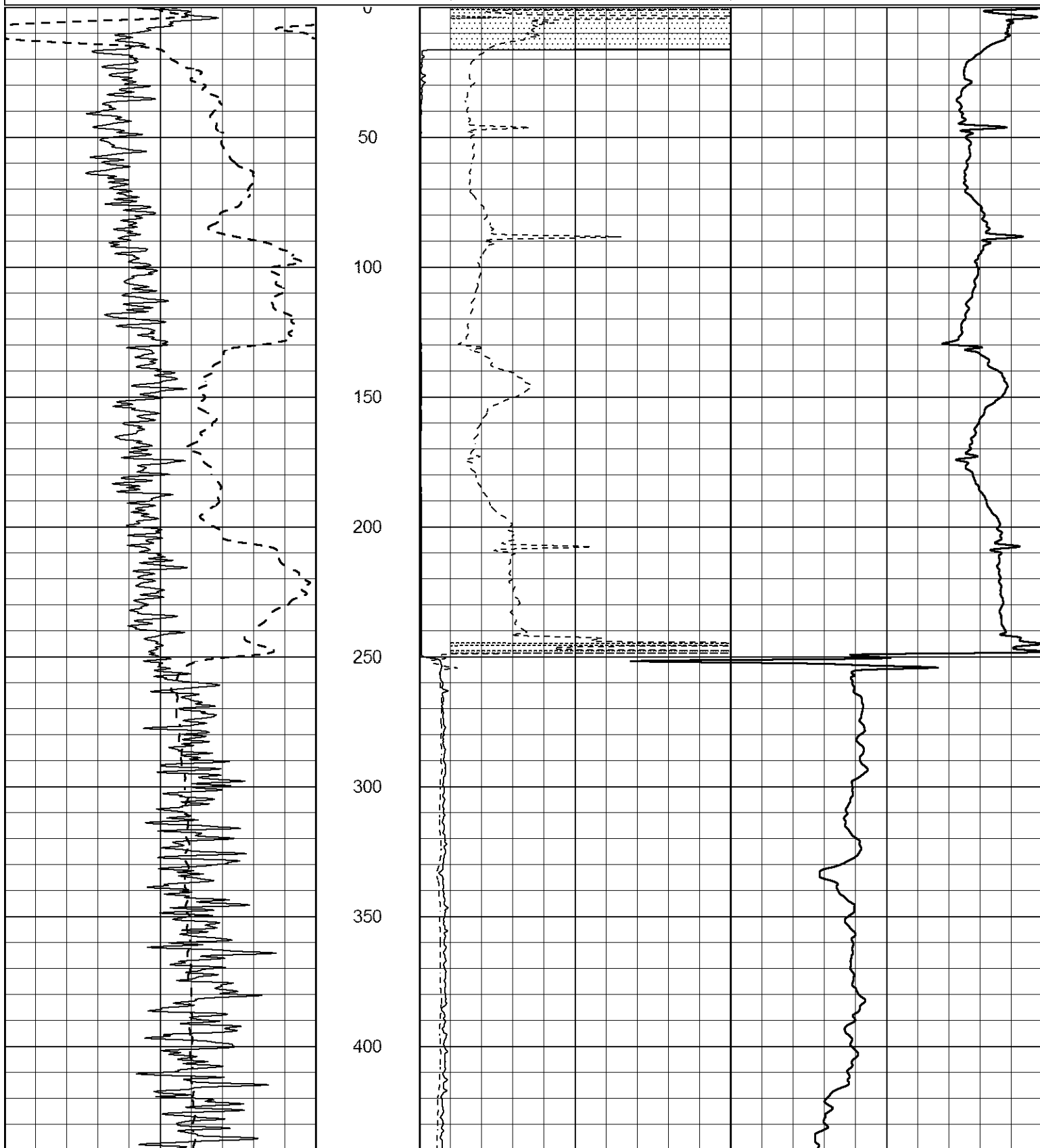
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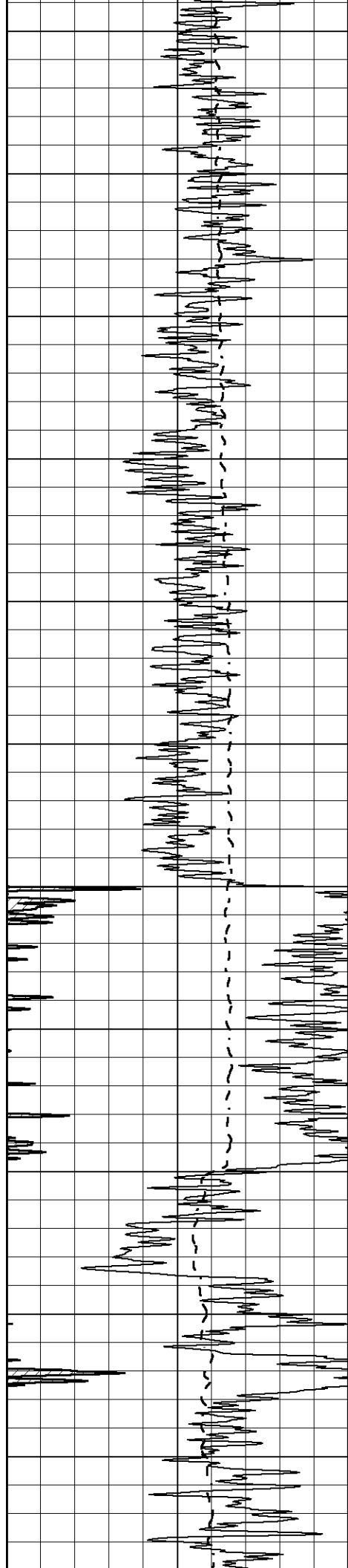
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Dataset Pathname pass8.1
Presentation Format _dil2
Dataset Creation Fri Jan 25 19:42:31 2019
Charted by Depth in Feet scaled 1:600

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





450

500

550

600

650

700

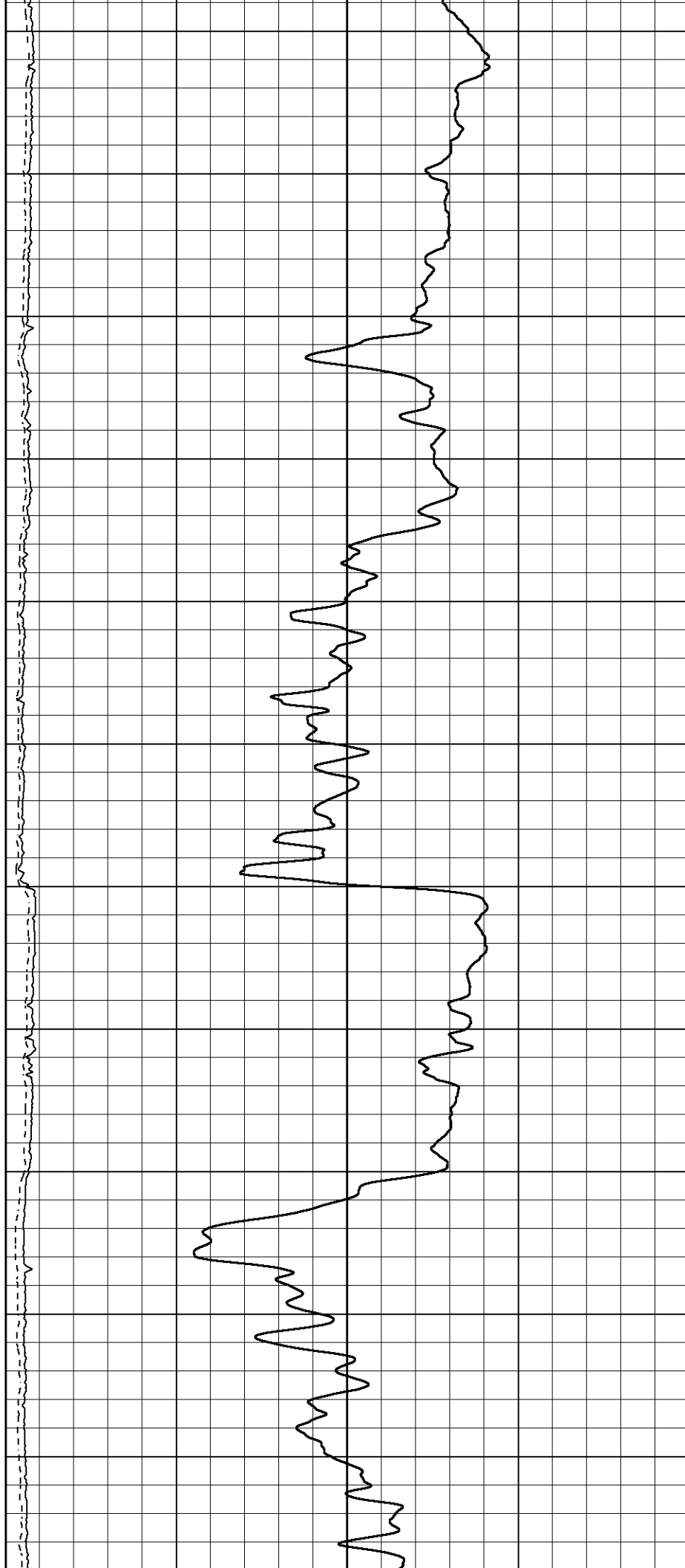
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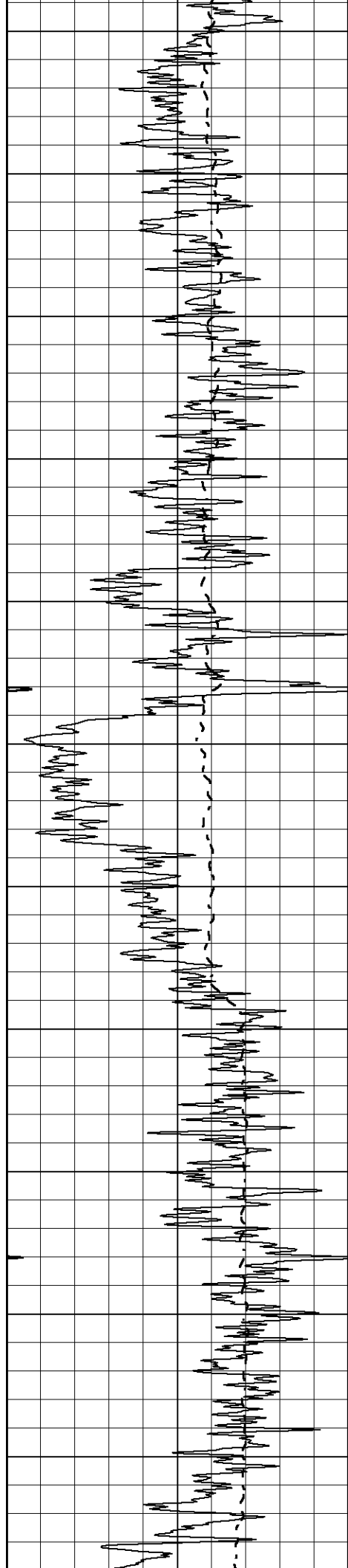
800

850

900

950





1000

1050

1100

1150

1200

1250

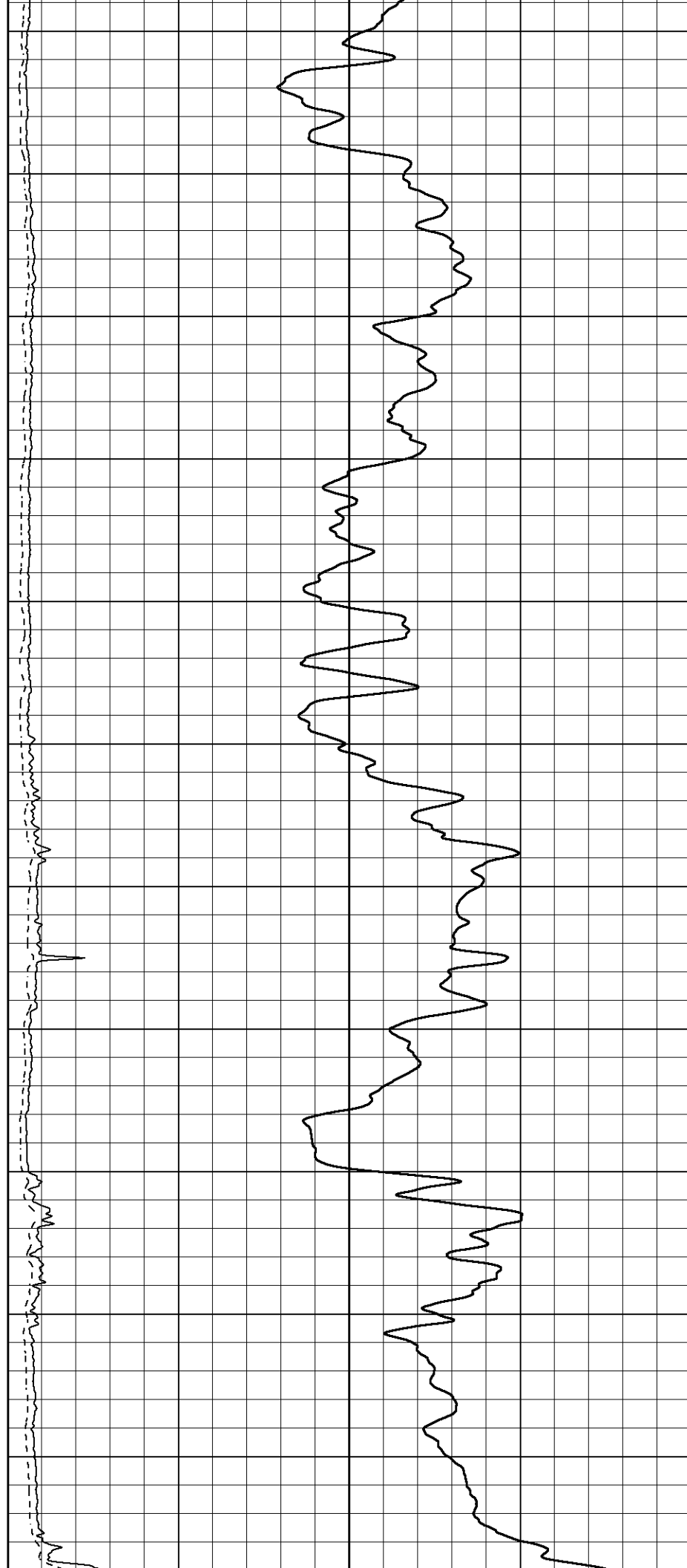
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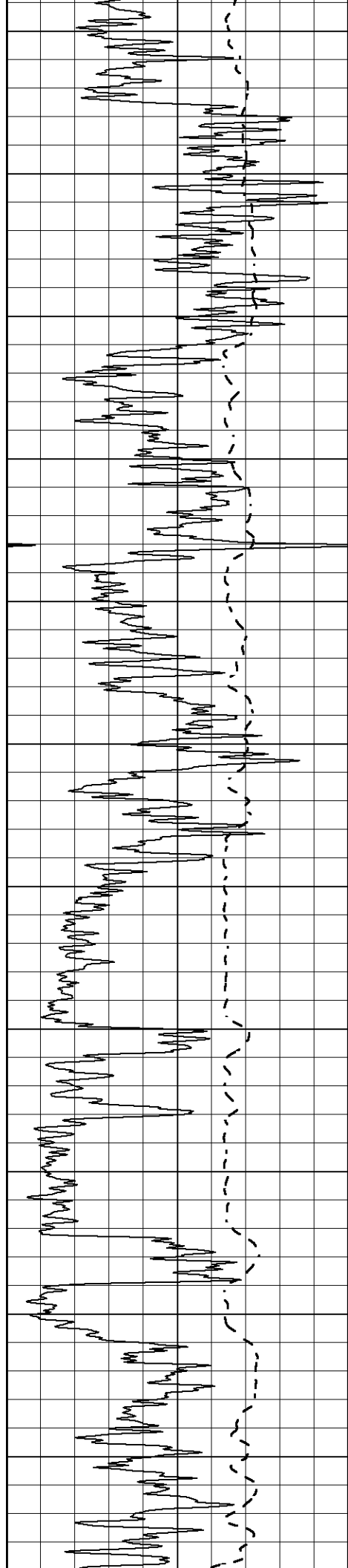
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1400

1450

1500





1550

1600

1650

1700

1750

1800

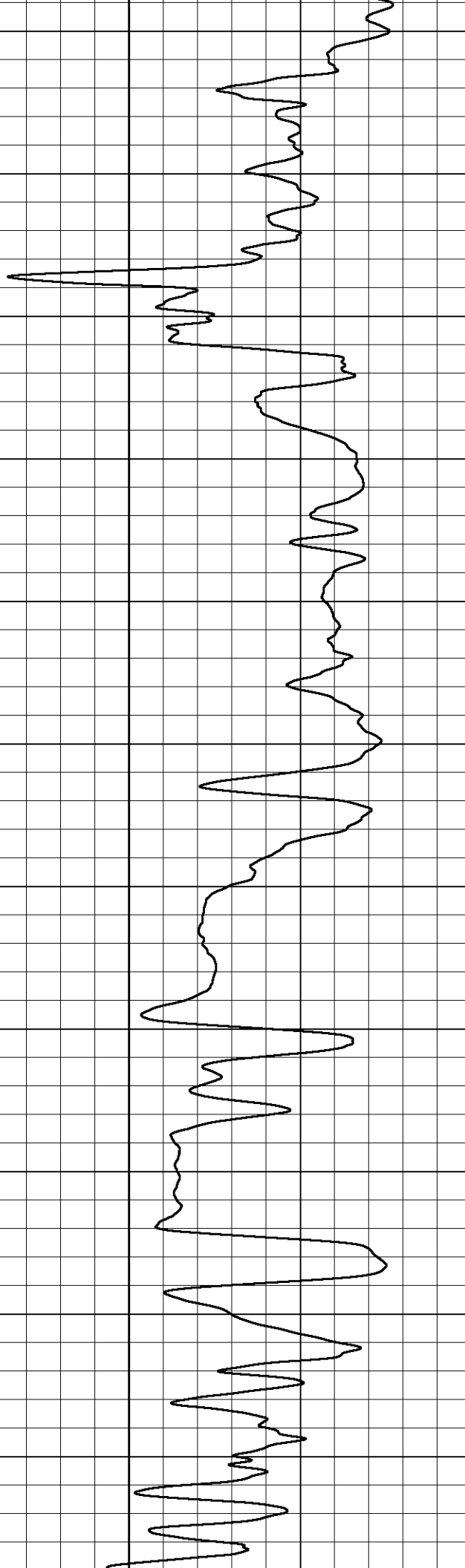
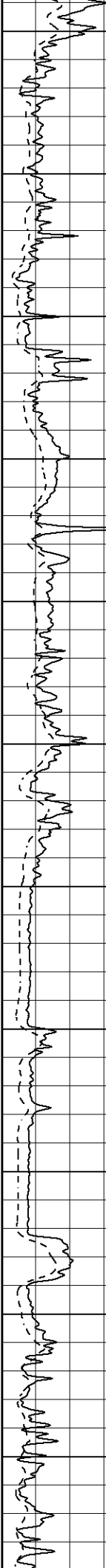
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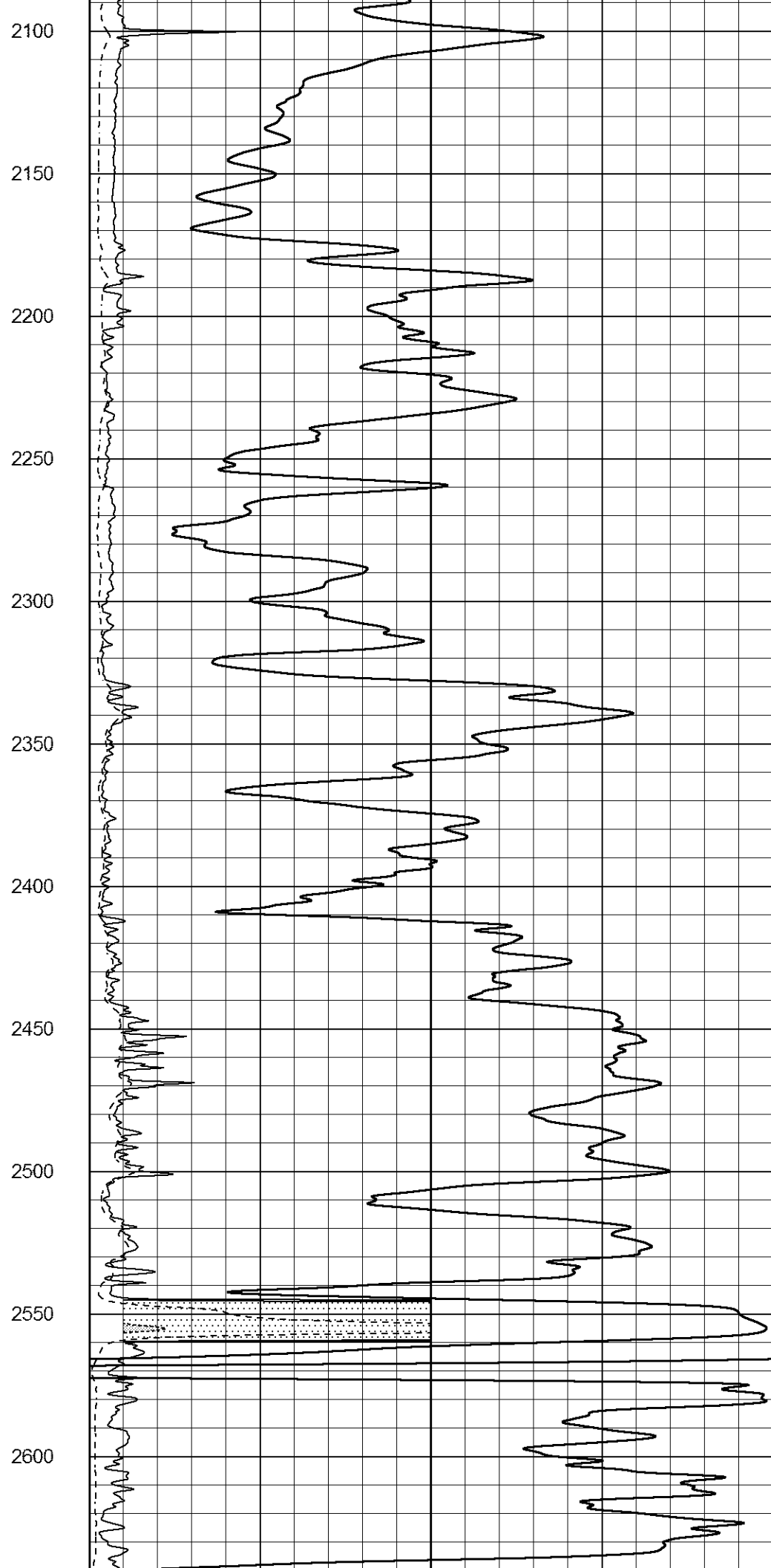
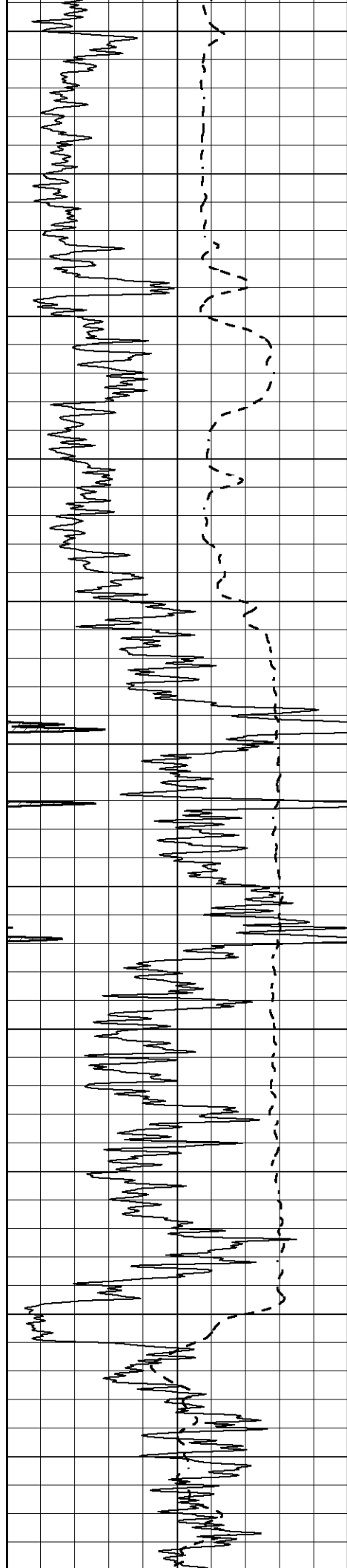
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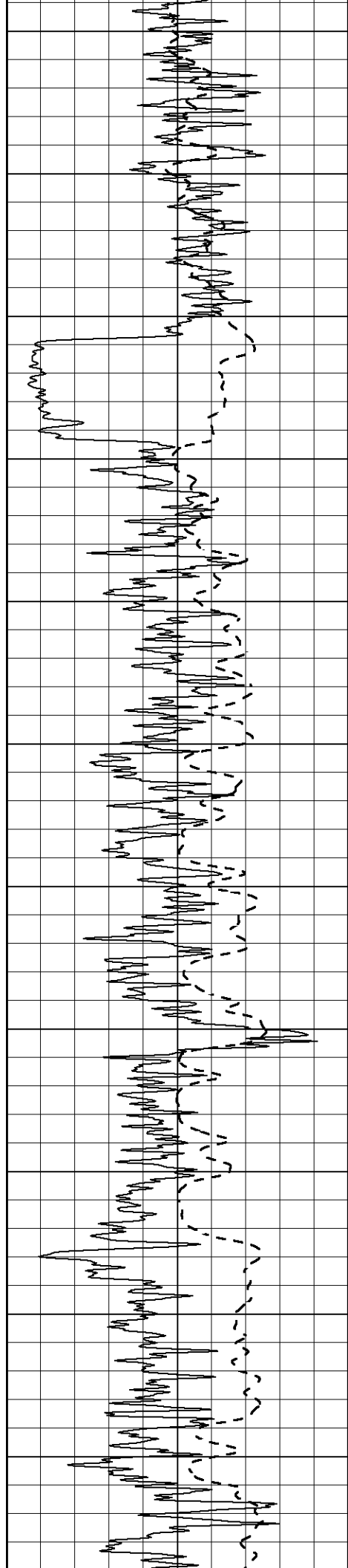
1950

2000

2050







2650

2700

2750

2800

2850

2900

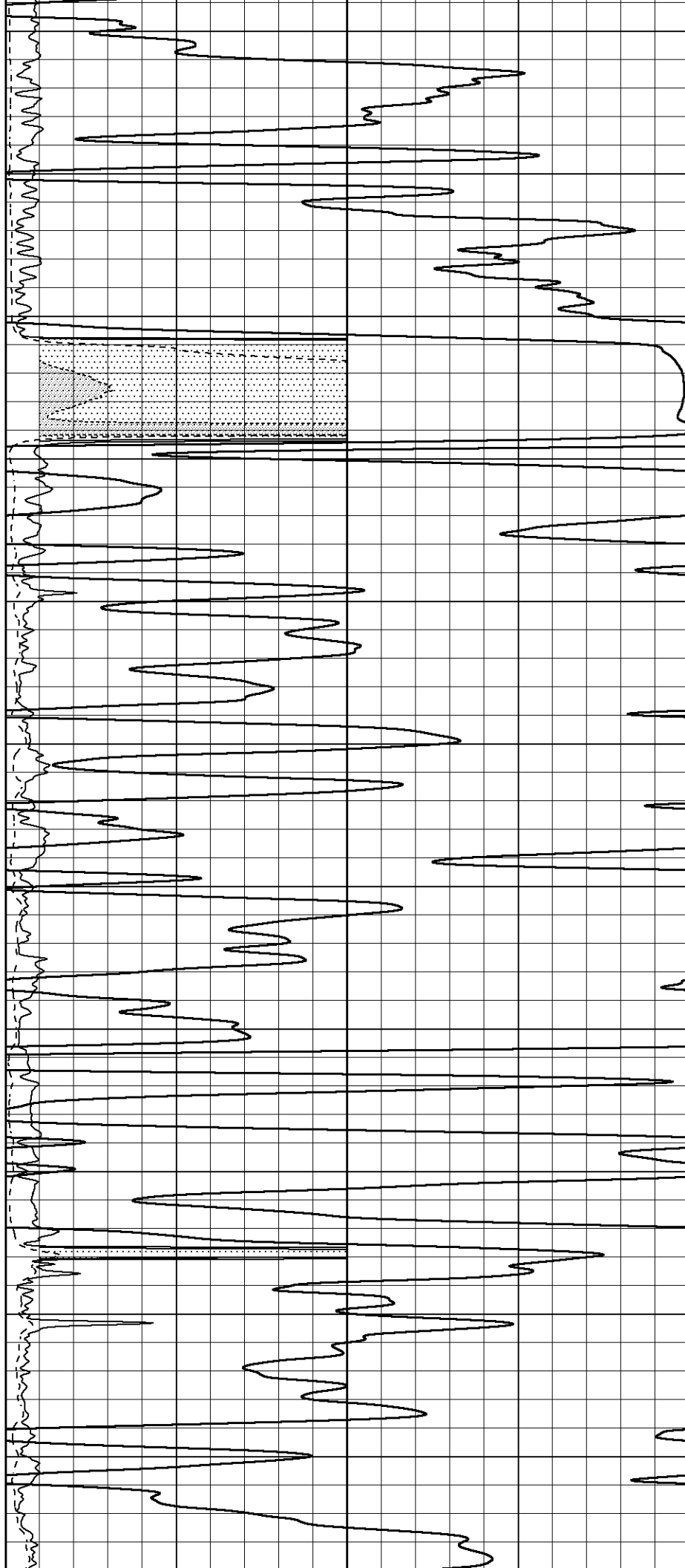
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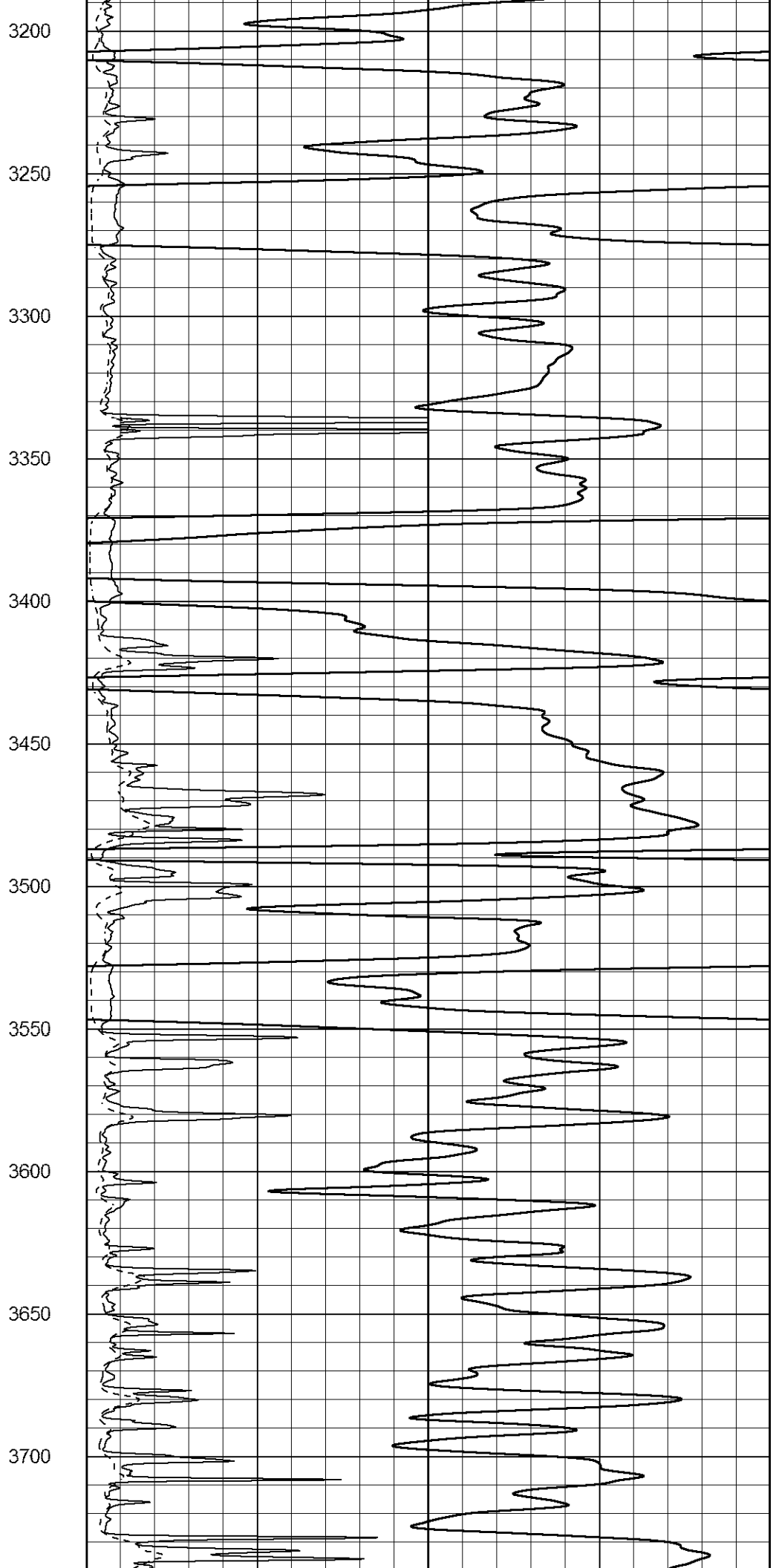
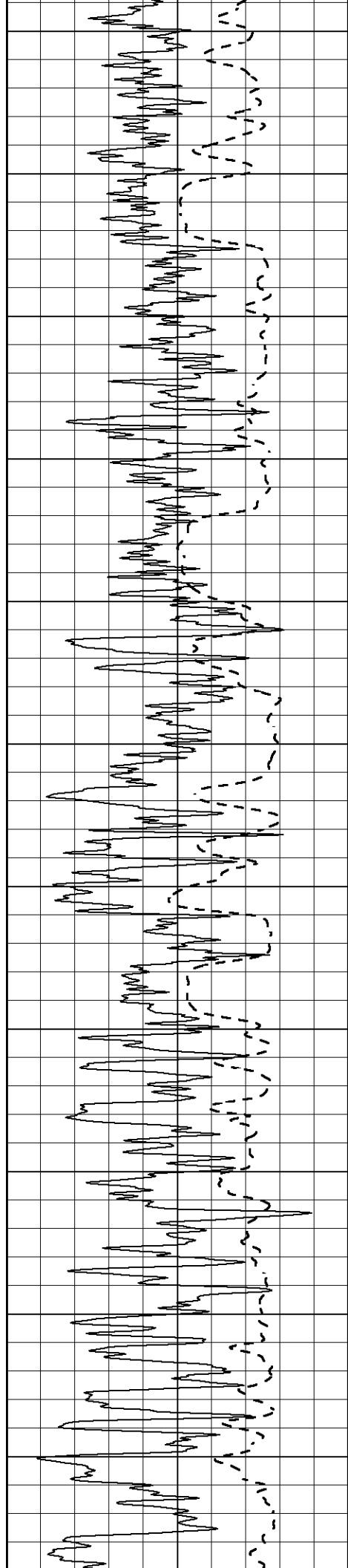
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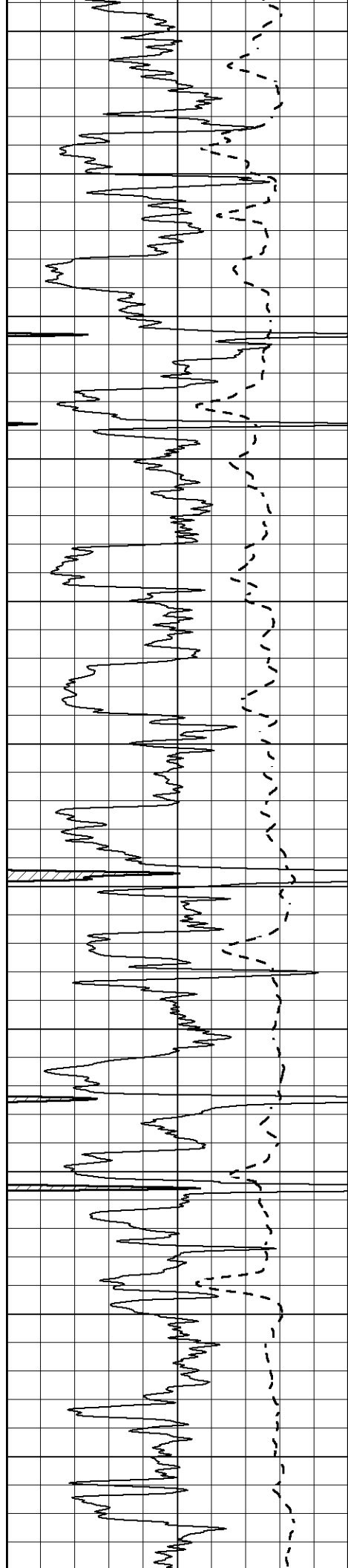
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3100

3150







3750

3800

3850

3900

3950

4000

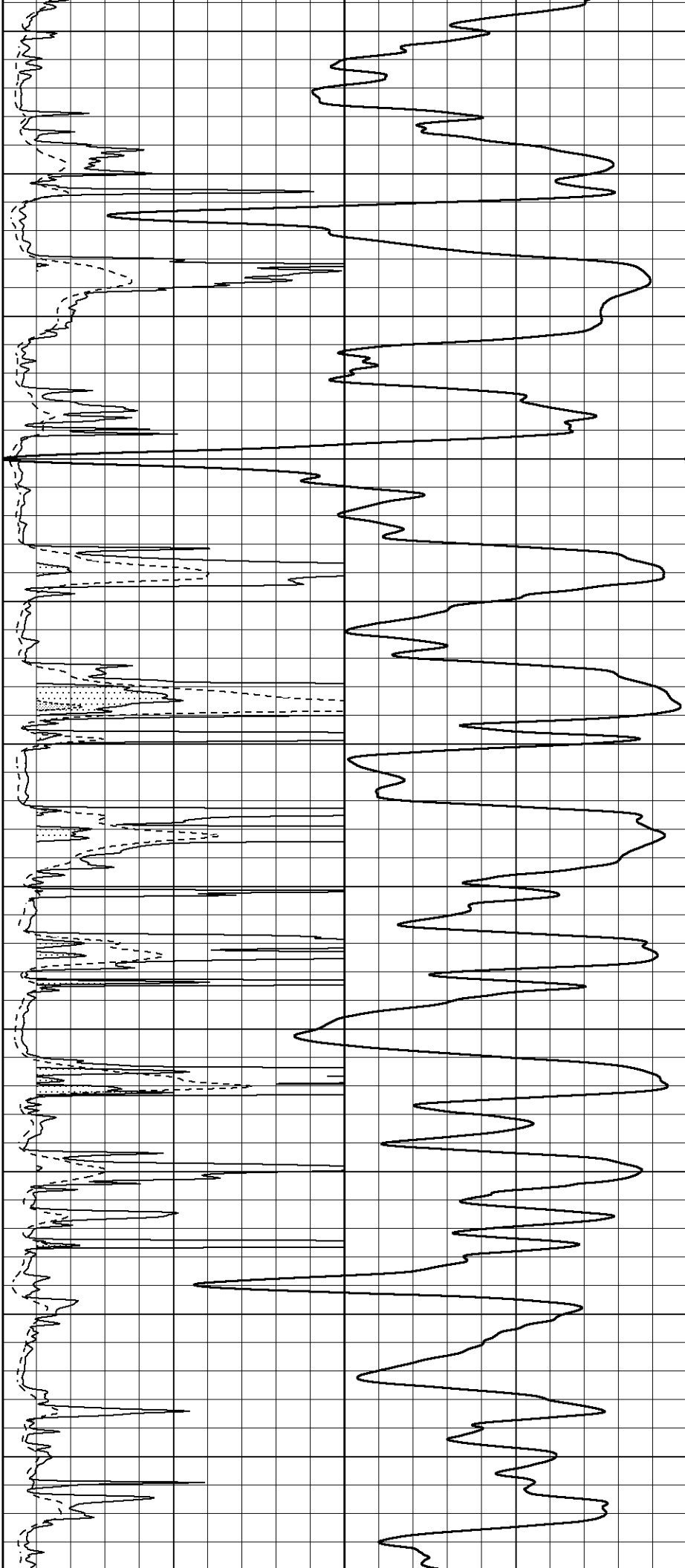
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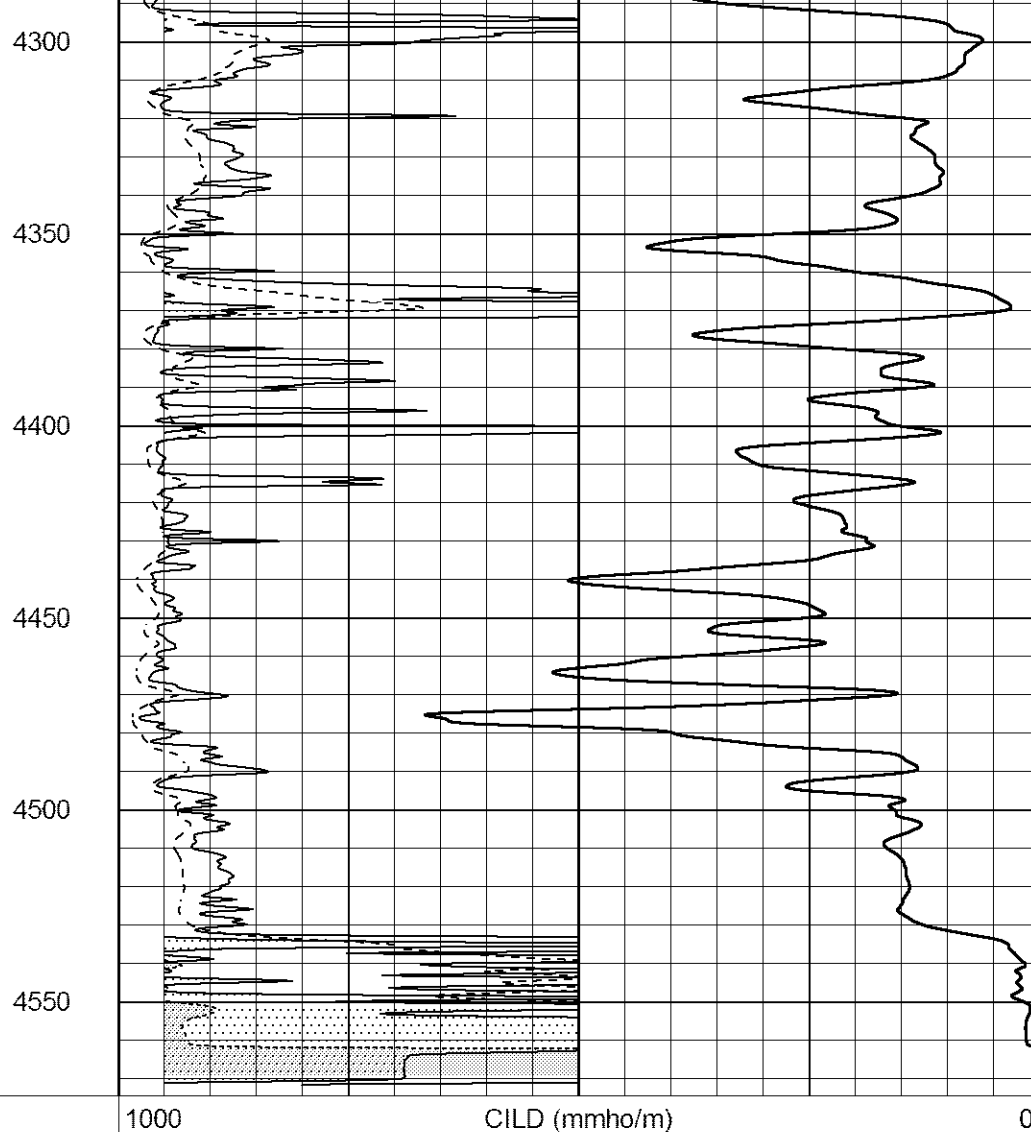
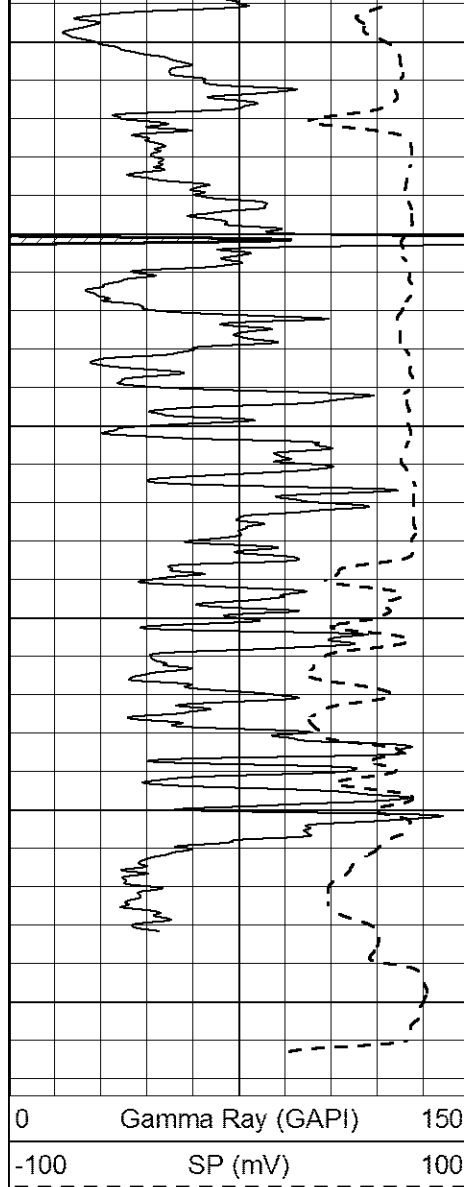
4100

4150

4200

4250





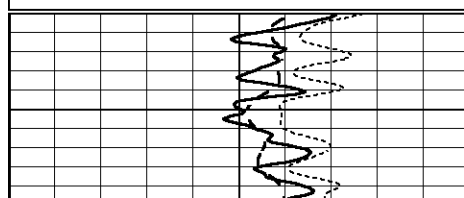
0	Deep Induction (Ohm-m)	50
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500



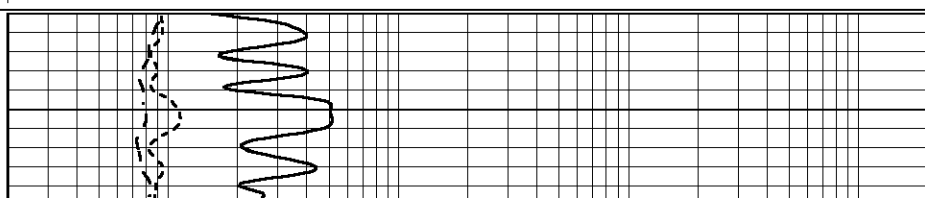
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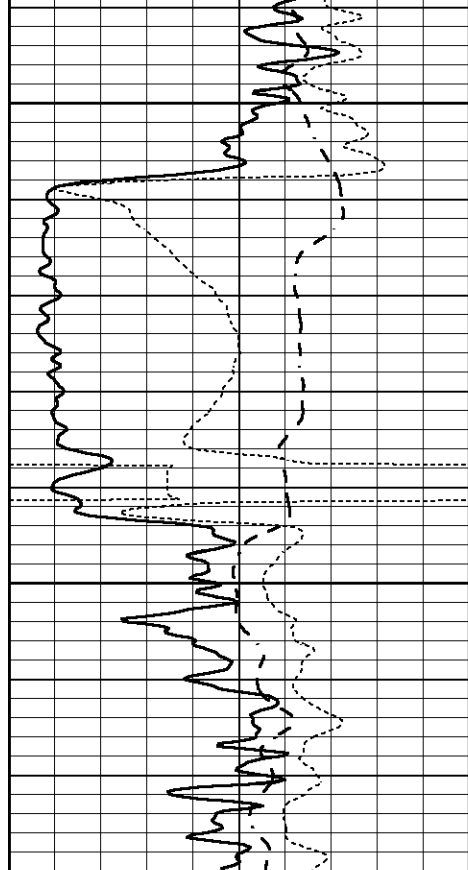
Database File 3438ddn8.db
 Dataset Pathname pass3.2
 Presentation Format _dil
 Dataset Creation Thu Jan 24 08:21:19 2019
 Charted by Depth in Feet scaled 1:240

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

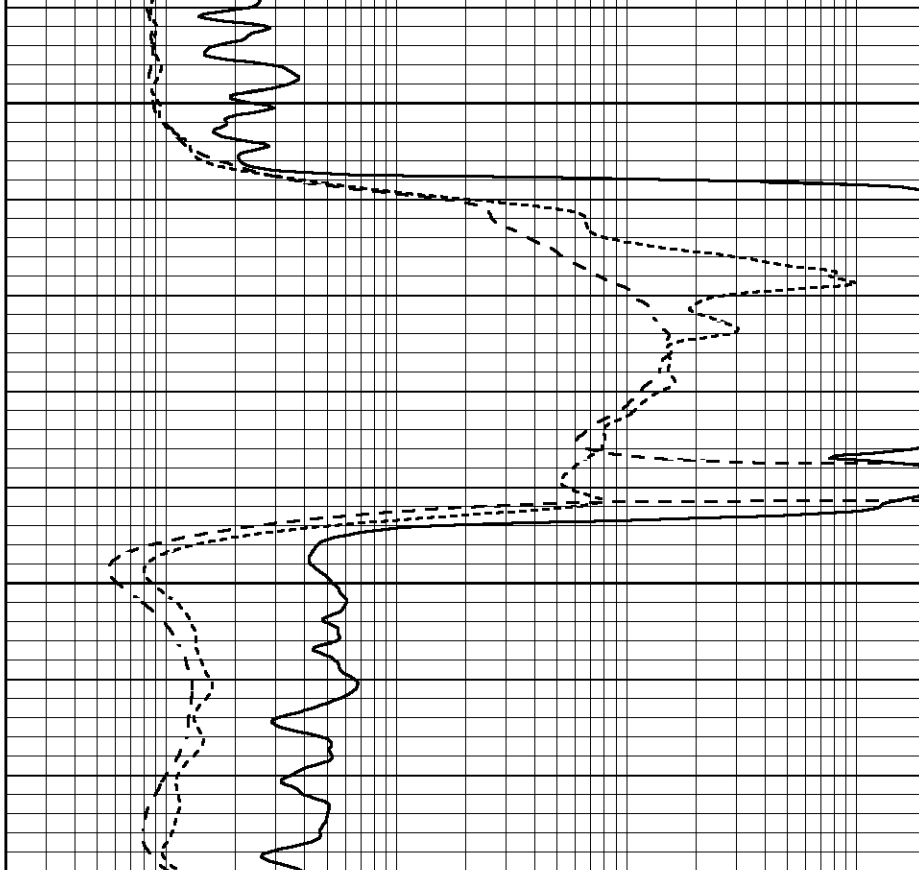




2750

2800

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

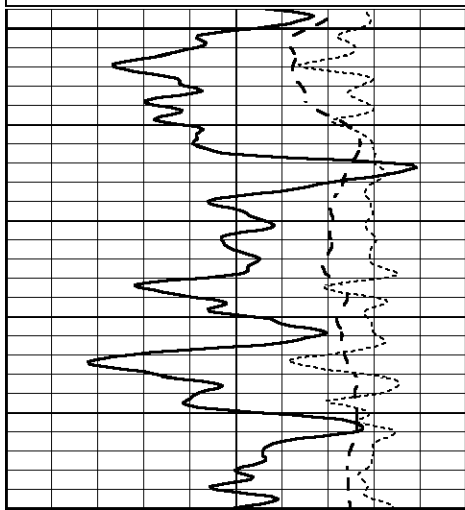


MAIN SECTION

Database File 3438ddn8.db
 Dataset Pathname pass8.1
 Presentation Format _dil
 Dataset Creation Fri Jan 25 19:42:31 2019
 Charted by Depth in Feet scaled 1:240

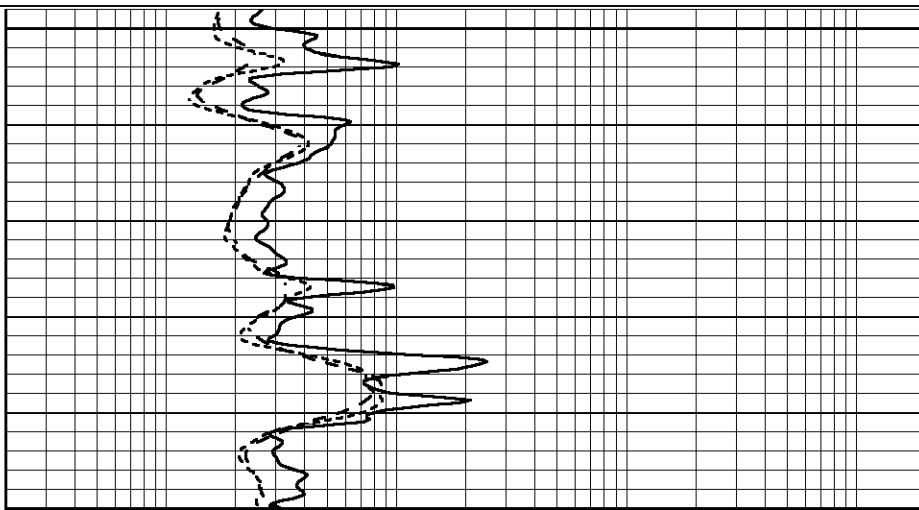
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

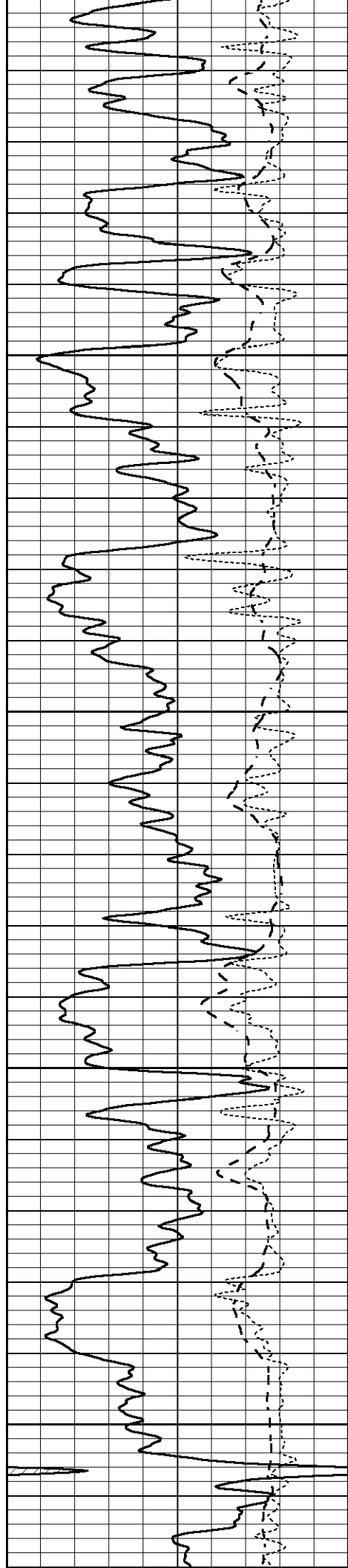
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



3600

3650





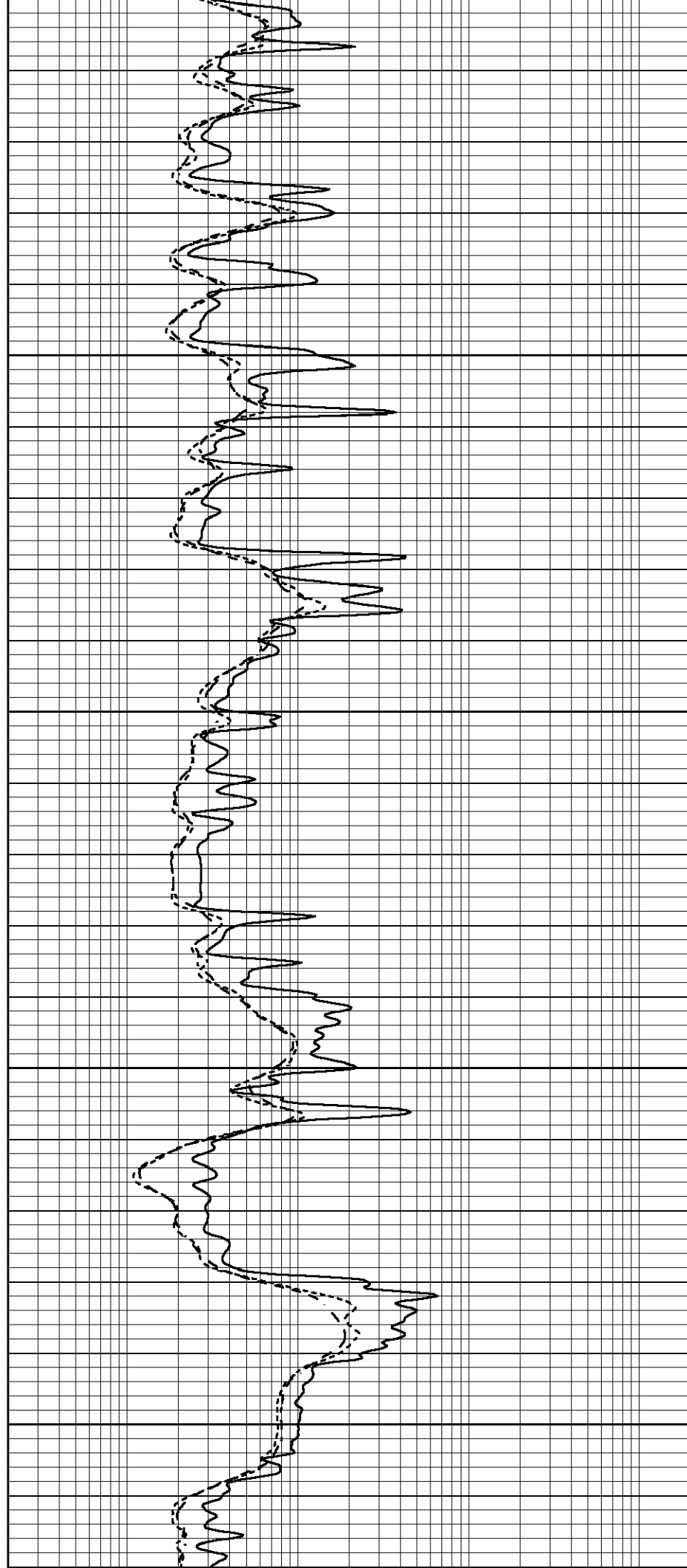
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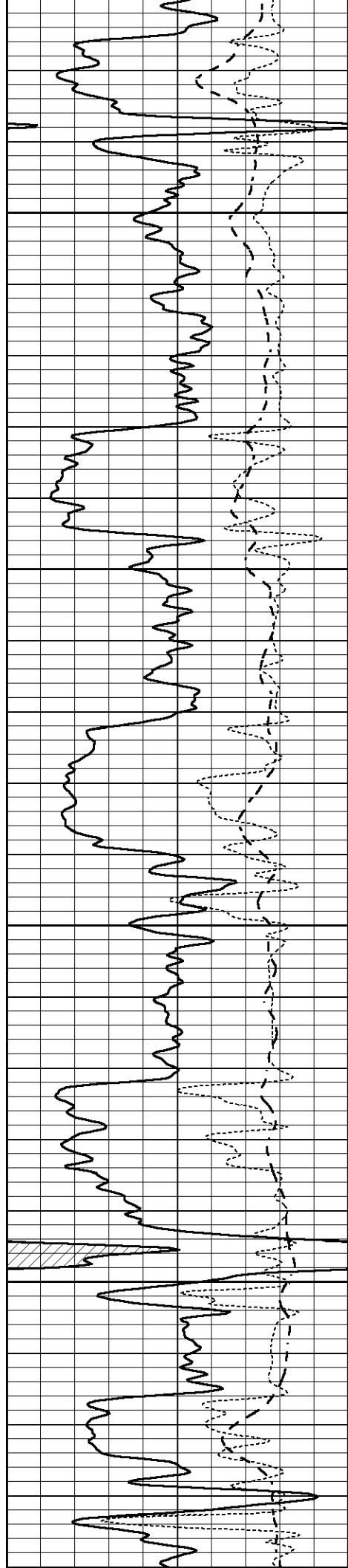
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3750

3800

3850



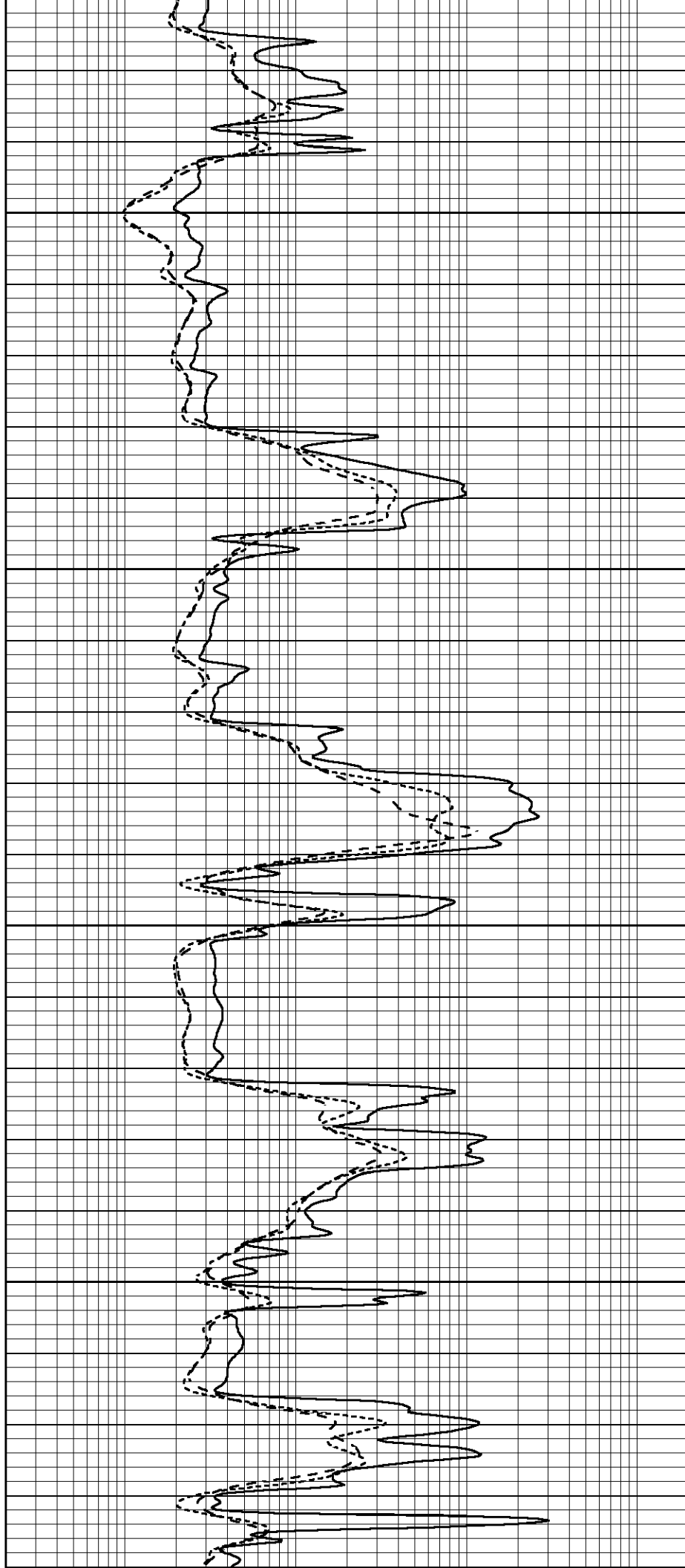


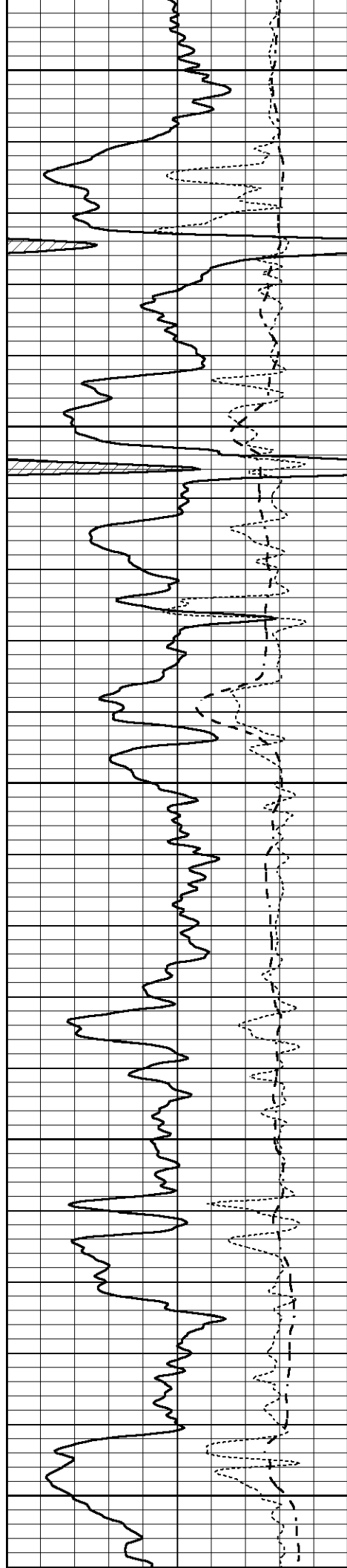
3900

3950

4000

4050





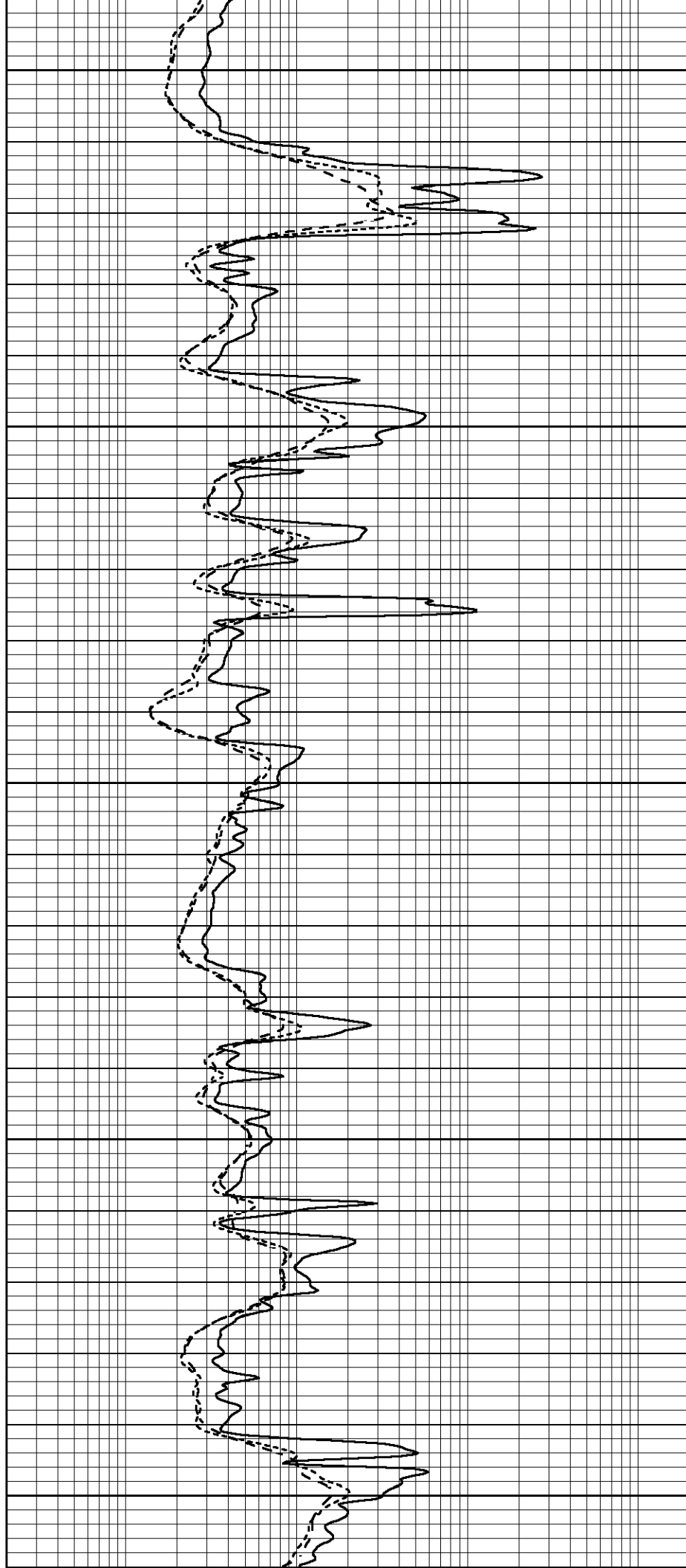
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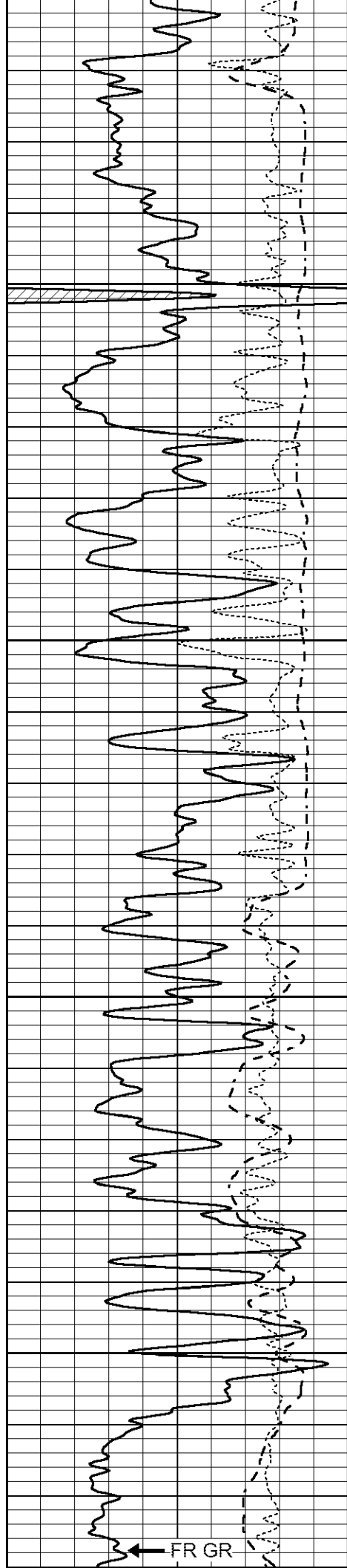
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4200

4250

4300



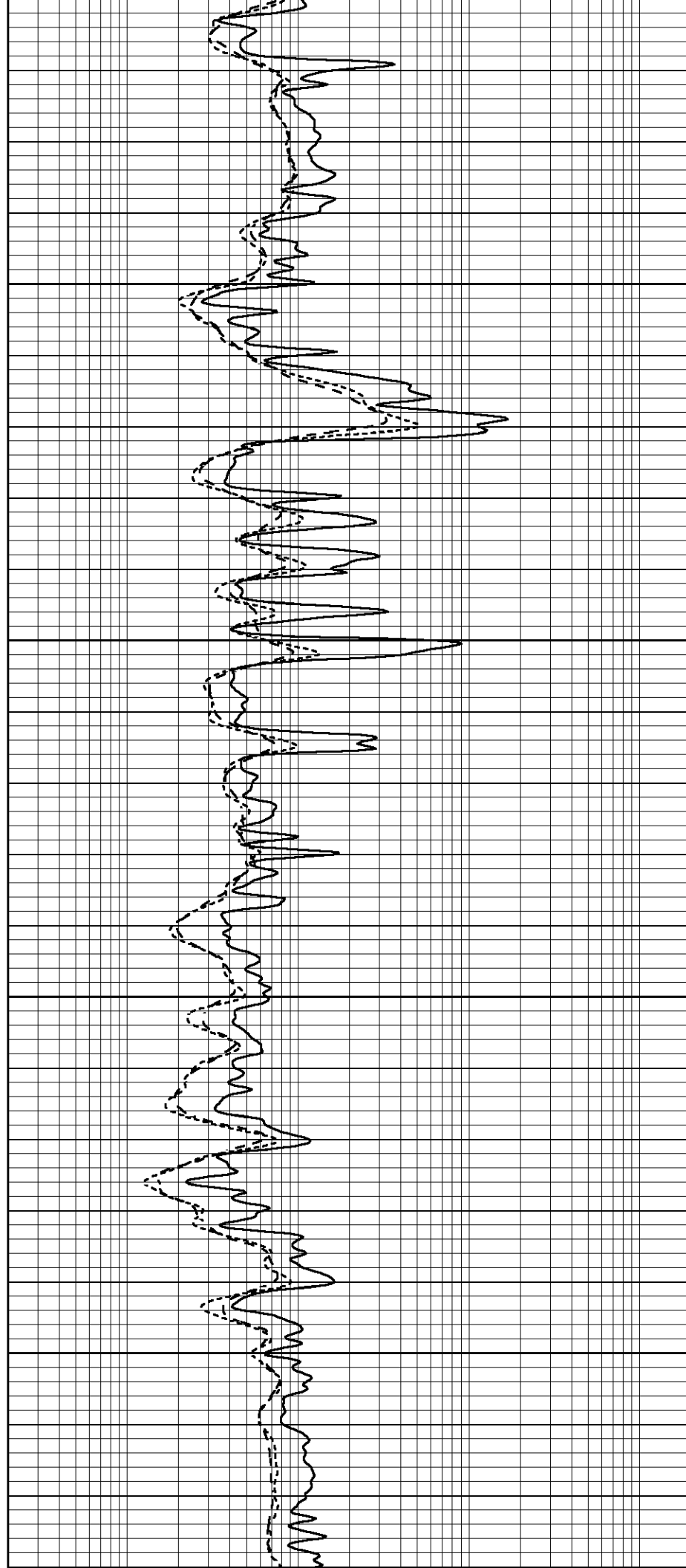


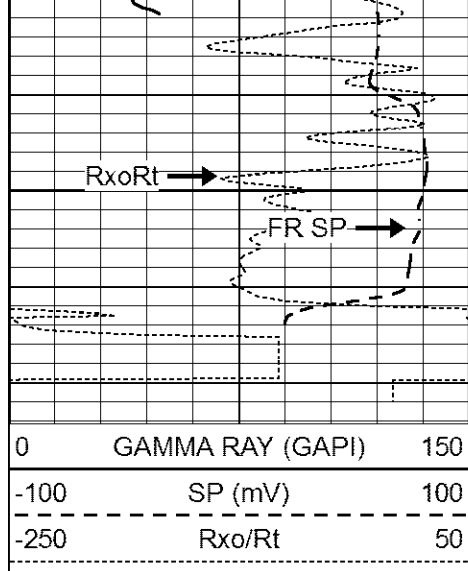
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4400

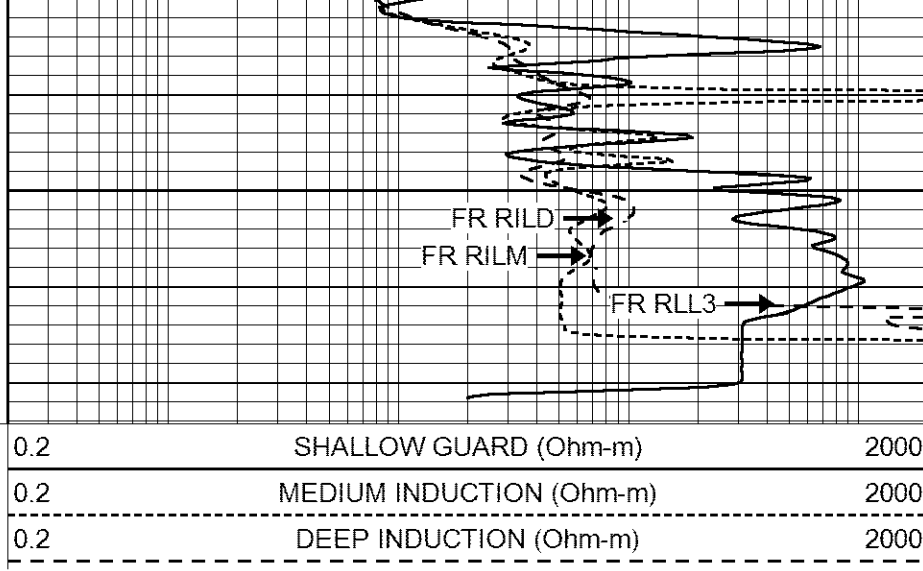
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4500



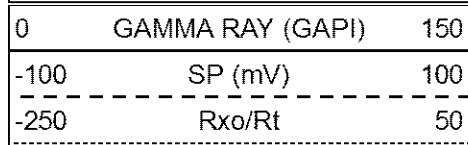


4550
LTD 4564



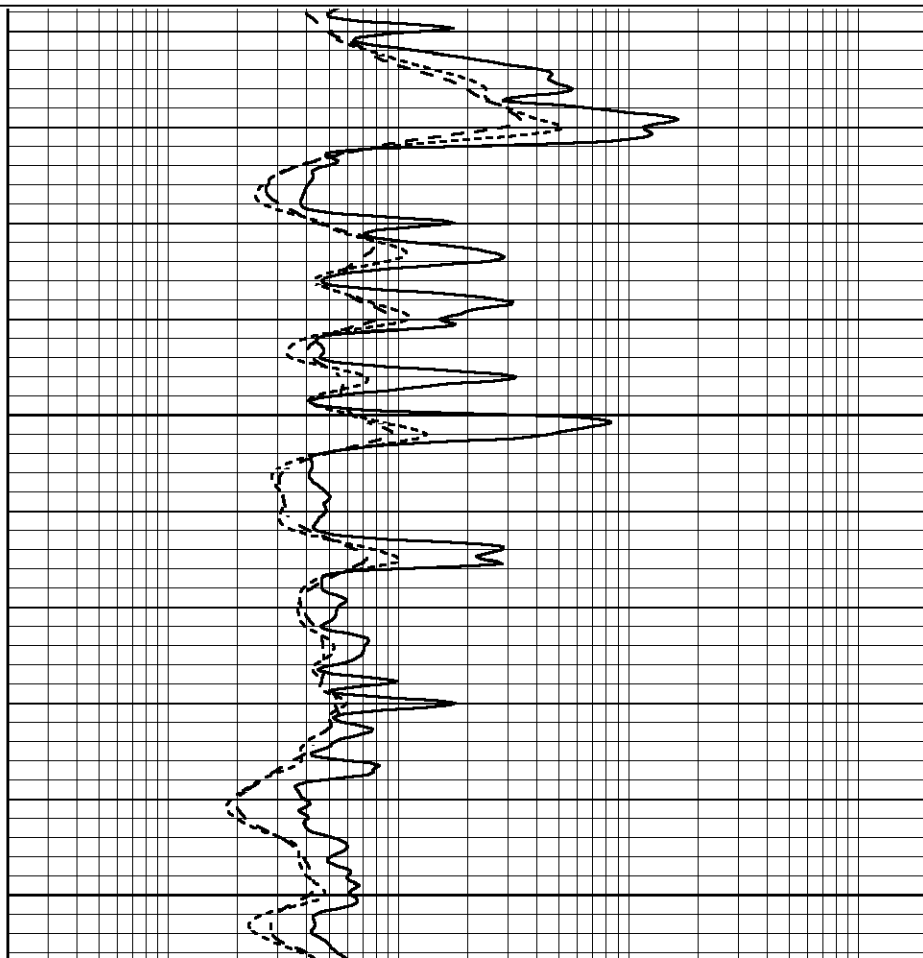
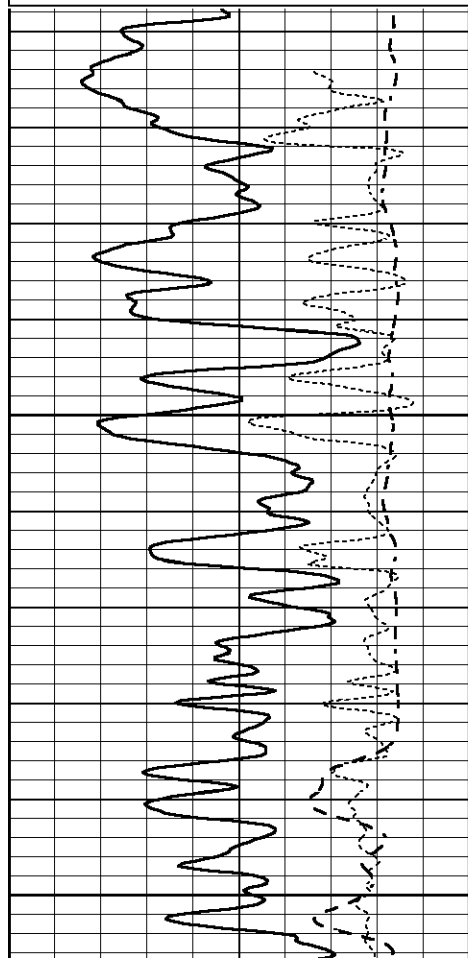
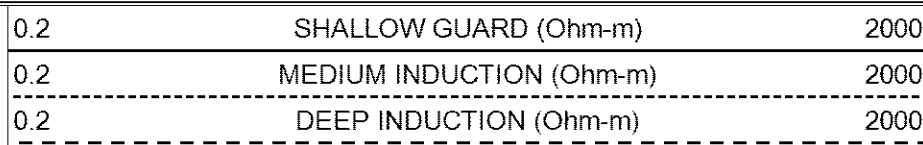
REPEAT SECTION

Database File 3438ddn8.db
Dataset Pathname pass7.1
Presentation Format _dil
Dataset Creation Fri Jan 25 19:44:44 2019
Charted by Depth in Feet scaled 1:240



4400

4450



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		

Litho Density Calibration Report Serial: 140704 Model: V4_10P Source Number: 74GBq-19								
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Master Calibration			Performed: Fri Jan 18 10:53:52 2019					
	Background	Aluminum	Magnesium					
Window 1	563.20	5403.39	24190.50	cps				
Window 2	44.78	1243.51	6049.93	cps				
Window 4	247.62	1222.40	5239.60	cps				
Window 5	568.17	8975.27	17094.80	cps				
Window 6	44.48	1484.88	2922.28	cps				
Window 8	270.82	2877.34	5377.89	cps				
Bulk Density	-	2.6020	1.6830	g/cc				
Pe	-	3.0000	2.5070	b/e				
LS Alpha:	: -1.8641	SS Alpha:	: -0.7692	LS CPE:	: 1.1004			
LS Beta:	: 127931.7253	SS Beta:	: 20075.8142	SS CPE:	: 1.5209			

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: Fri Jan 18 10:53:52 2019					
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Results	Readings	References (in)			
Low	High	Low	High	Gain	Offset
90.2	3611.6	8.0	14.0	0.0	7.8

Before Survey Caliper Verification		Performed:	
	Reference	Reading	
Caliper (in)	_____	_____	

After Survey Caliper Verification		Performed:	
	Reference	Reading	
Caliper (in)	_____	_____	

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 Dec 05 01:26:33 2018		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.4300	GAPI/cps	