

DUAL INDUCTION LOG

Company SHELBY RESOURCES, LLC.
Well SCHNEIDER UNIT #1-18
Field SCHNEIDER
County BARTON State KANSAS

Location: API # : 15-009-26157-0000

2617' FNL & 704' FEL

SEC 18 TWP 18S RGE 14W

Permanent Datum GROUND LEVEL Elevation 1937
Log Measured From KELLY BUSHING 11' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL
MEL/SON
Elevation
K.B. 1948
D.F. 1946
G.L. 1937

Date	11/25/16		
Run Number	ONE		
Depth Driller	3600		
Depth Logger	3602		
Bottom Logged Interval	3600		
Top Log Interval	00		
Casing Driller	8 5/8" @ 966'		
Casing Logger	966'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3/59		
pH / Fluid Loss	9.0/8.8		
Source of Sample	FLOWLINE	CHLORIDES 6000 PPM	
Rm @ Meas. Temp	.85 @ 80F		
Rmf @ Meas. Temp	.63 @ 80F		
Rmc @ Meas. Temp	1.02 @ 80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.60 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	3:10 P.M.		
Maximum Recorded Temperature	112F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPELLUCCI		
Witnessed By	JEREMY SCHWARTZ		

<<< Fold Here >>>

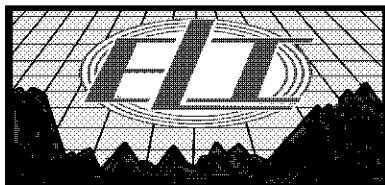
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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:

HWY 281 & HWY 4 - 3 SOUTH TO 90TH RD. - 3 WEST TO 70TH RD. - 1/4 SOUTH - WEST INTO



MAIN SECTION

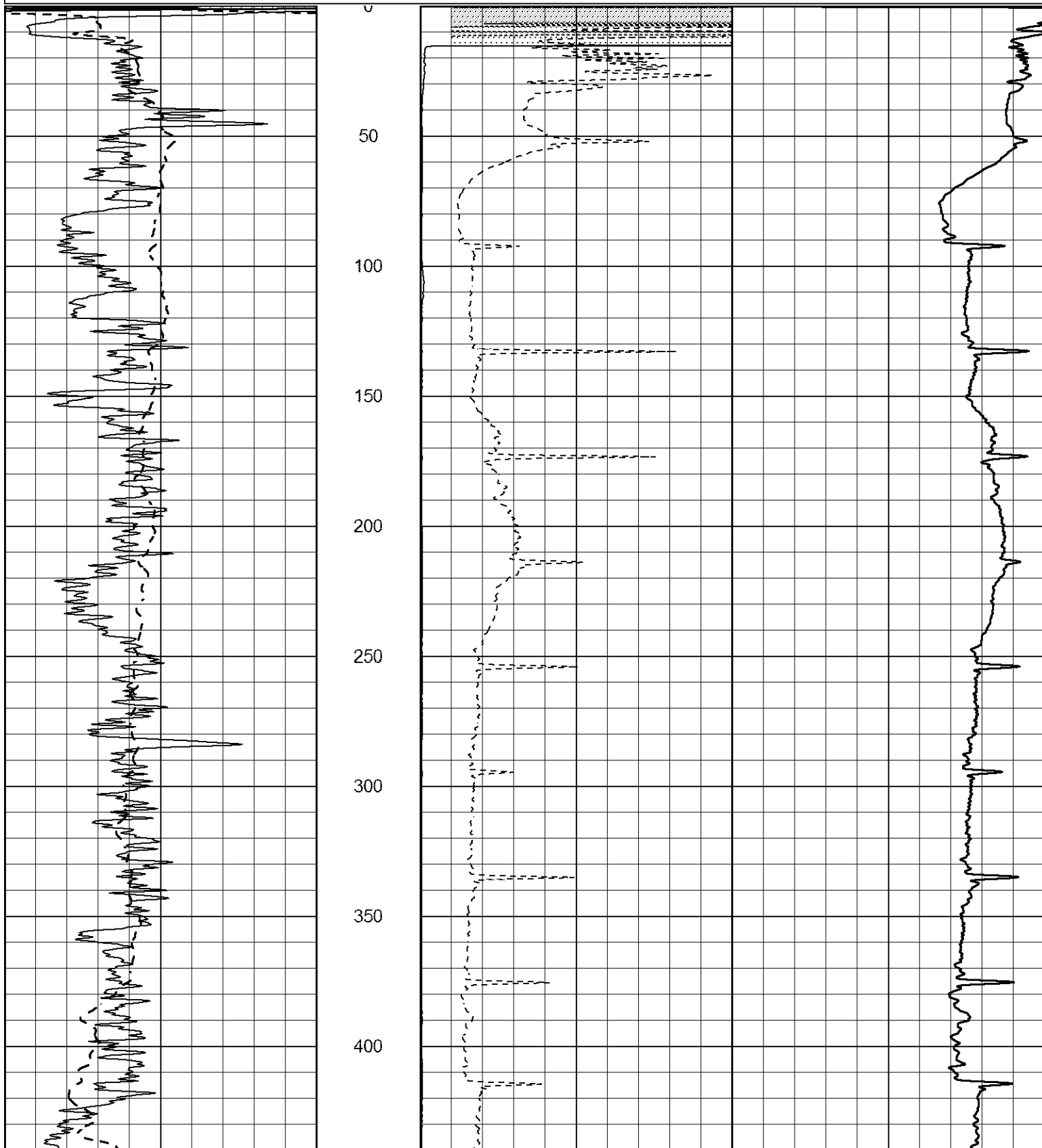
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Presentation Format _dil2
Dataset Creation Fri Nov 25 16:36:17 2016
Charted by Depth in Feet scaled 1:600

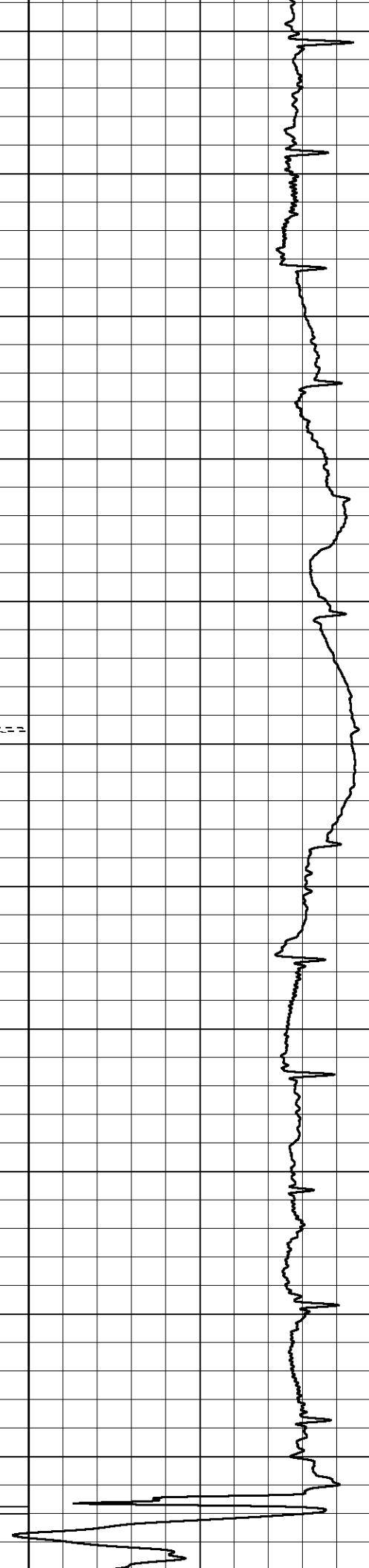
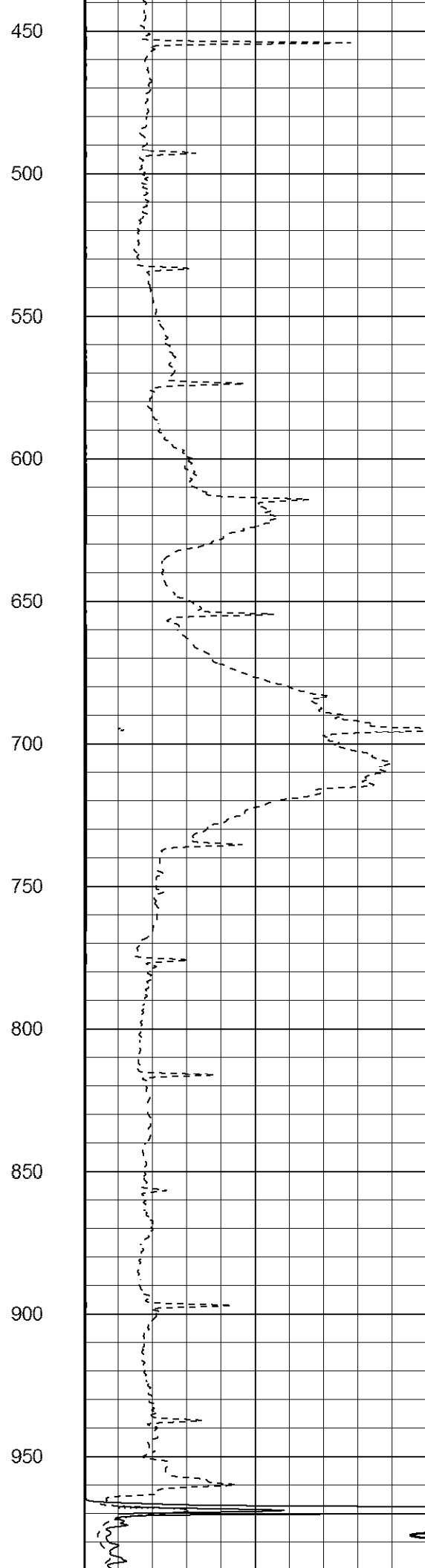
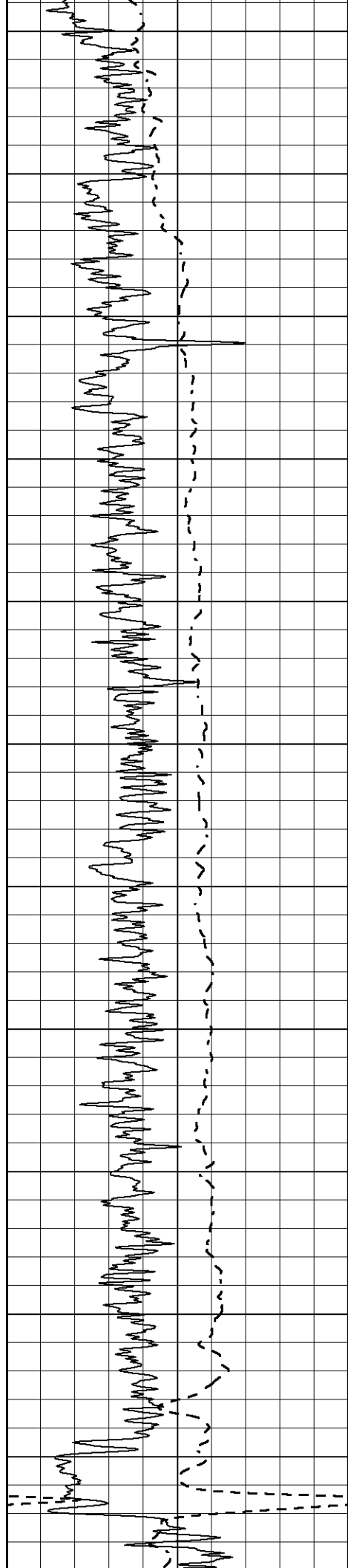
0 Gamma Ray (GAPI) 150
-100 SP (mV) 100

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





1000

1050

1100

1150

1200

1250

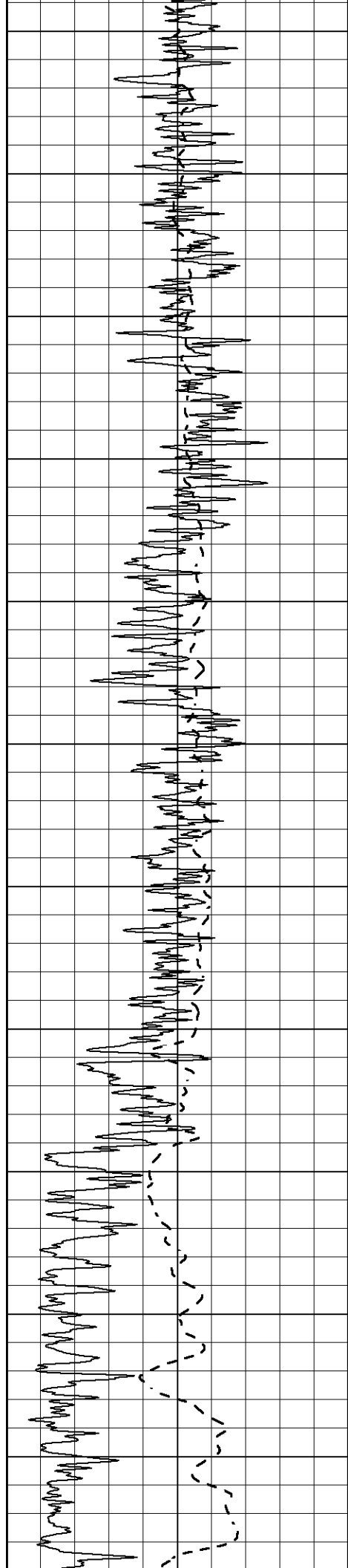
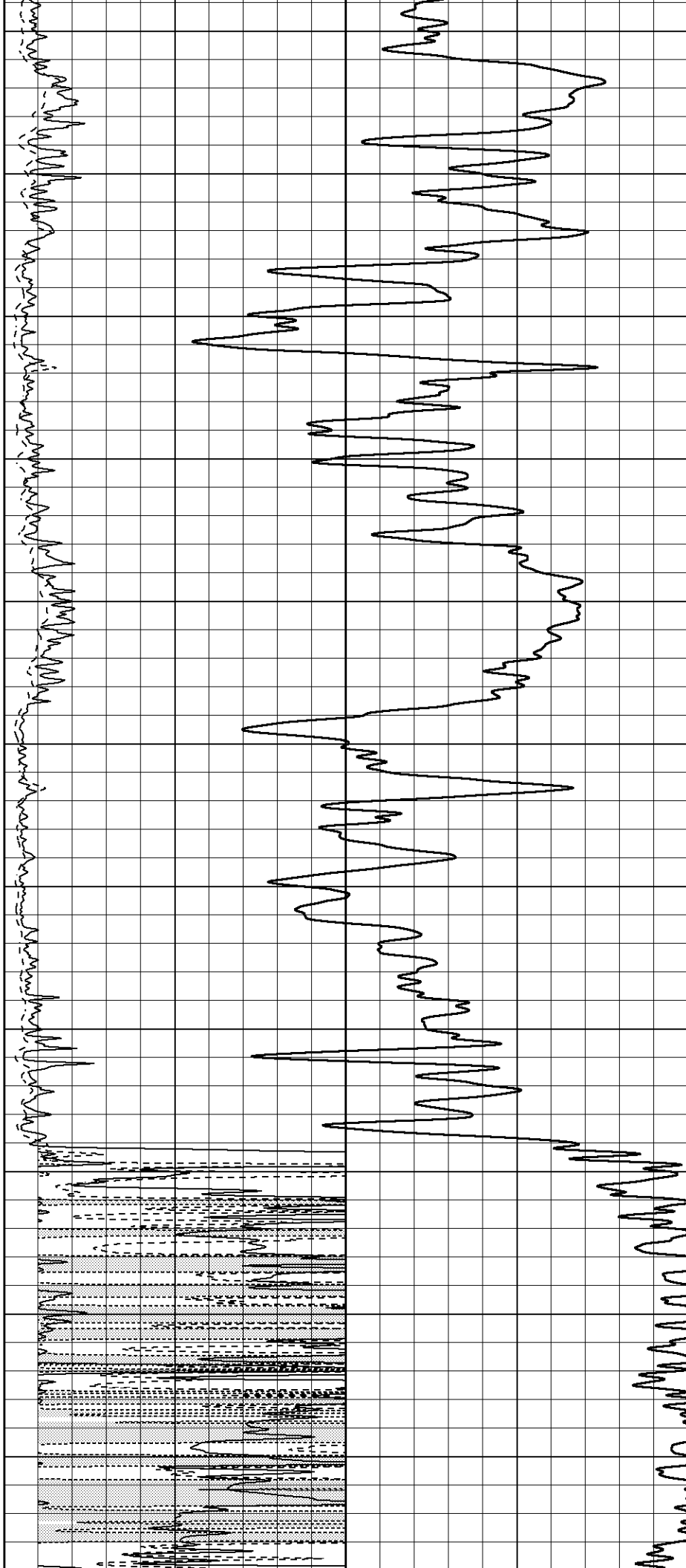
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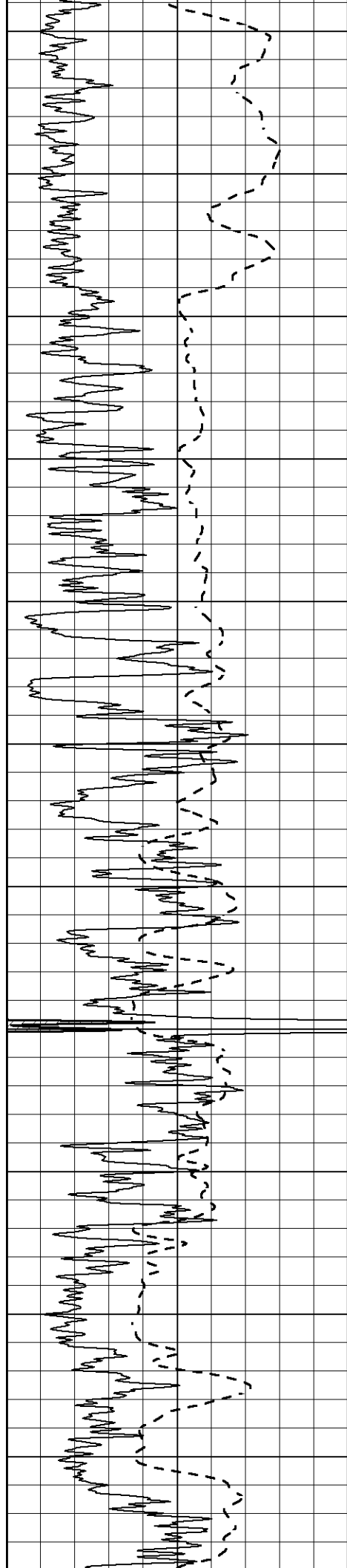
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1400

1450

1500





1550

1600

1650

1700

1750

1800

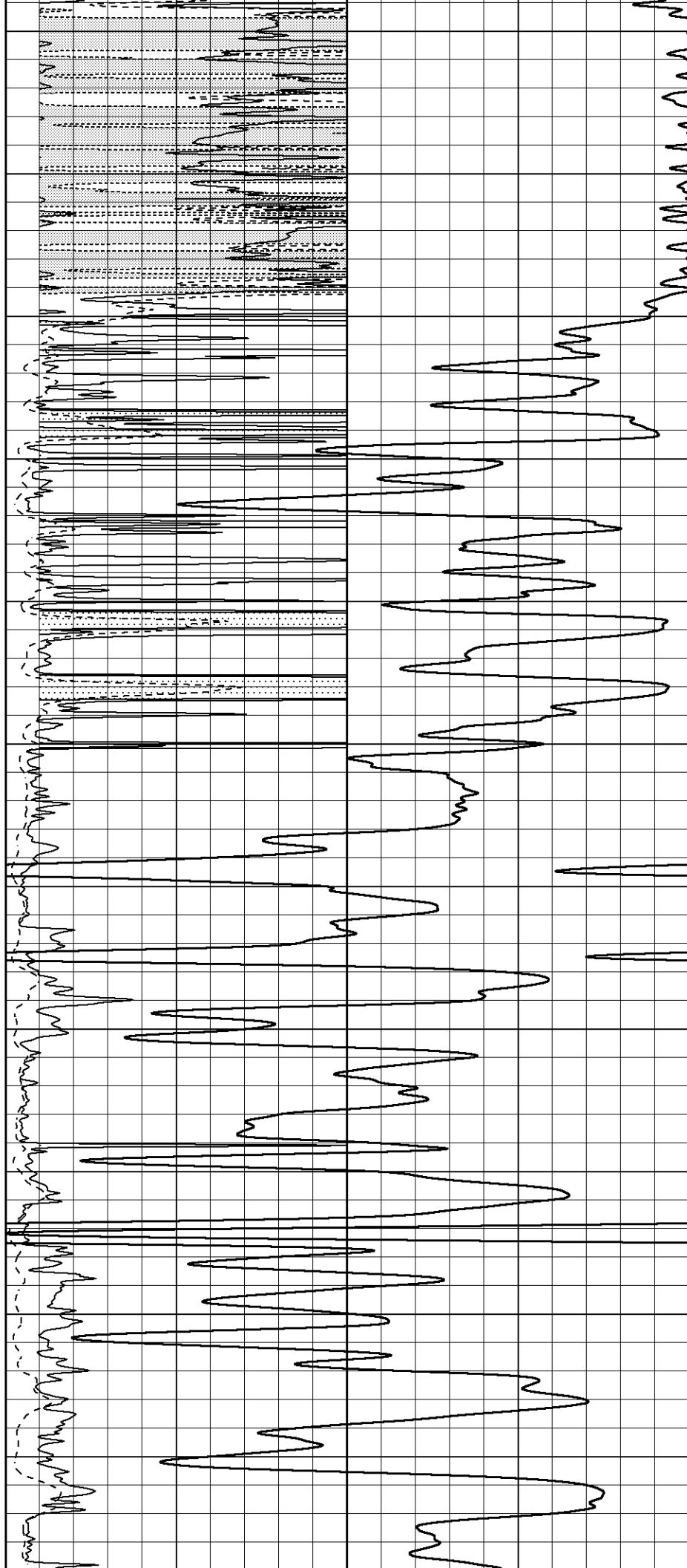
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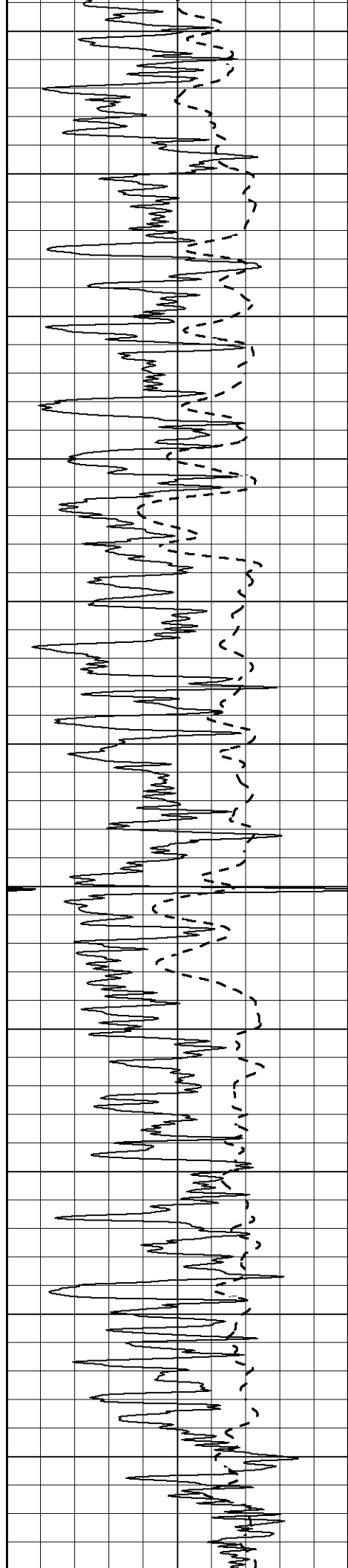
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1950

2000

2050





2100

2150

2200

2250

2300

2350

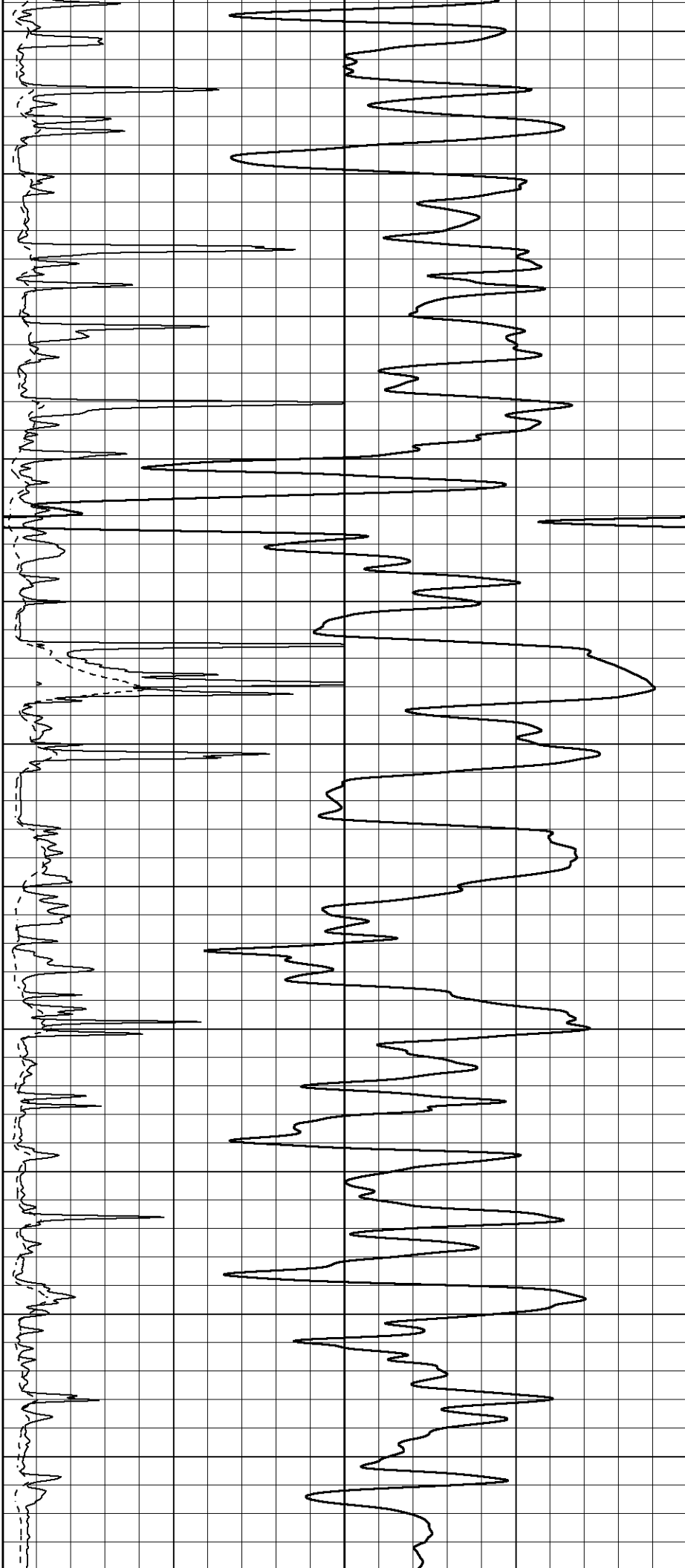
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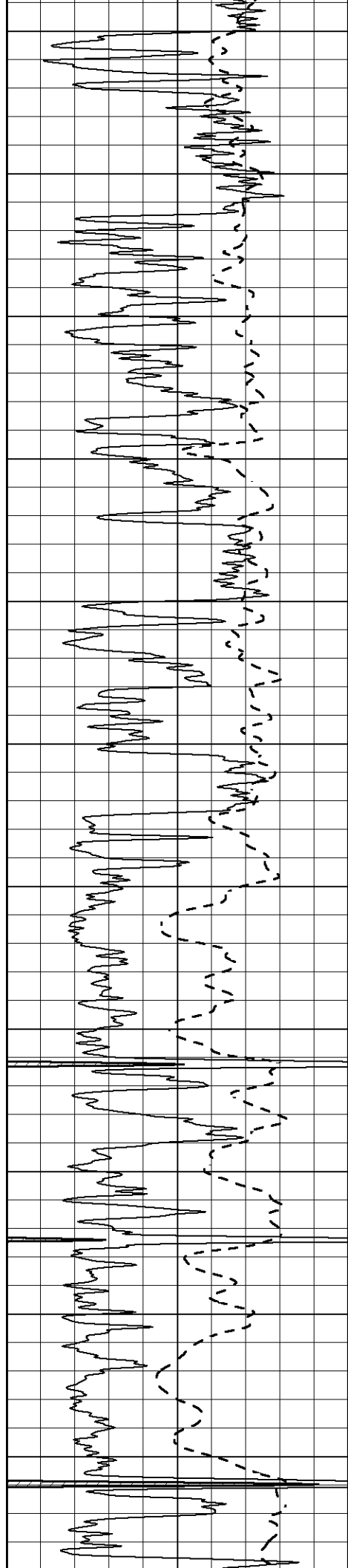
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2500

2550

2600





2650

2700

2750

2800

2850

2900

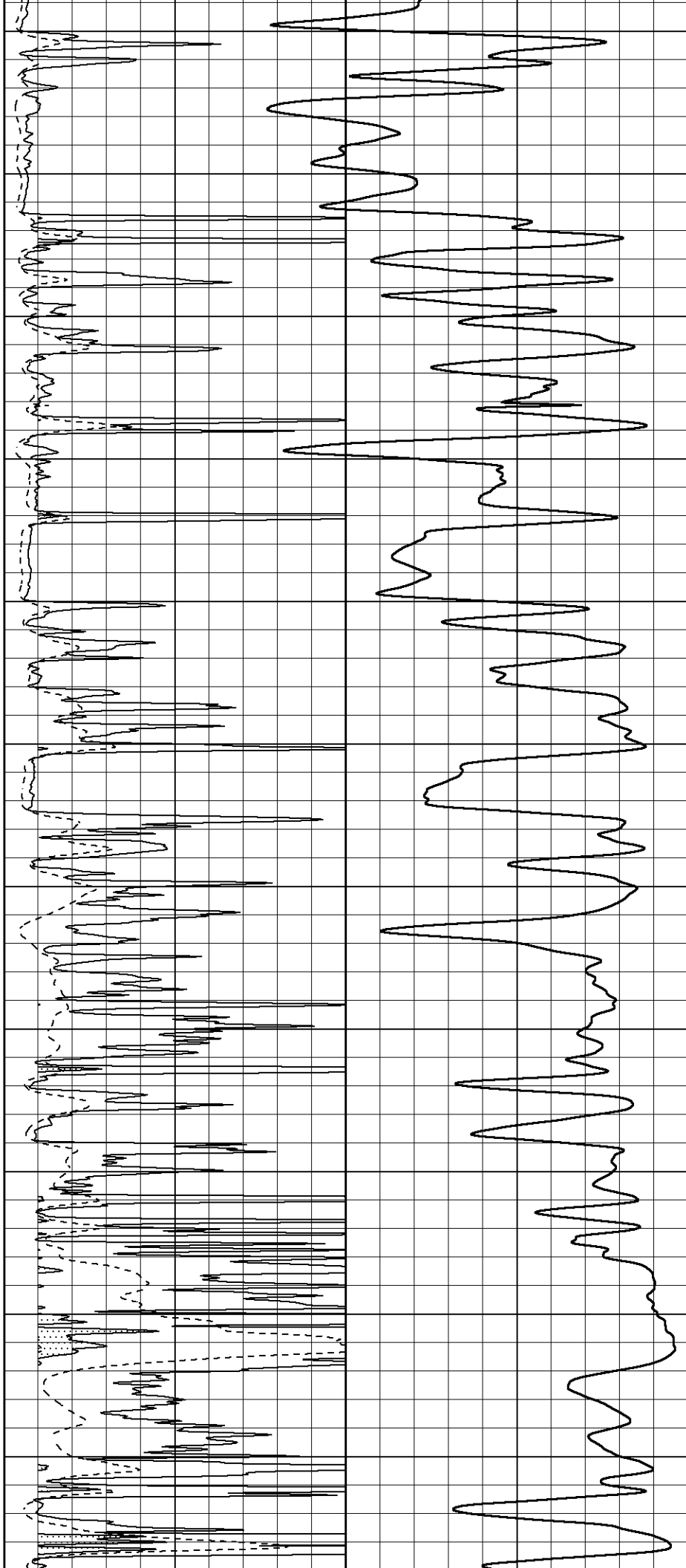
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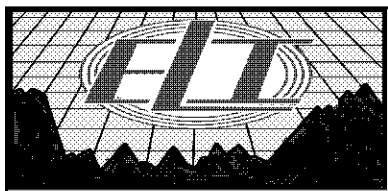
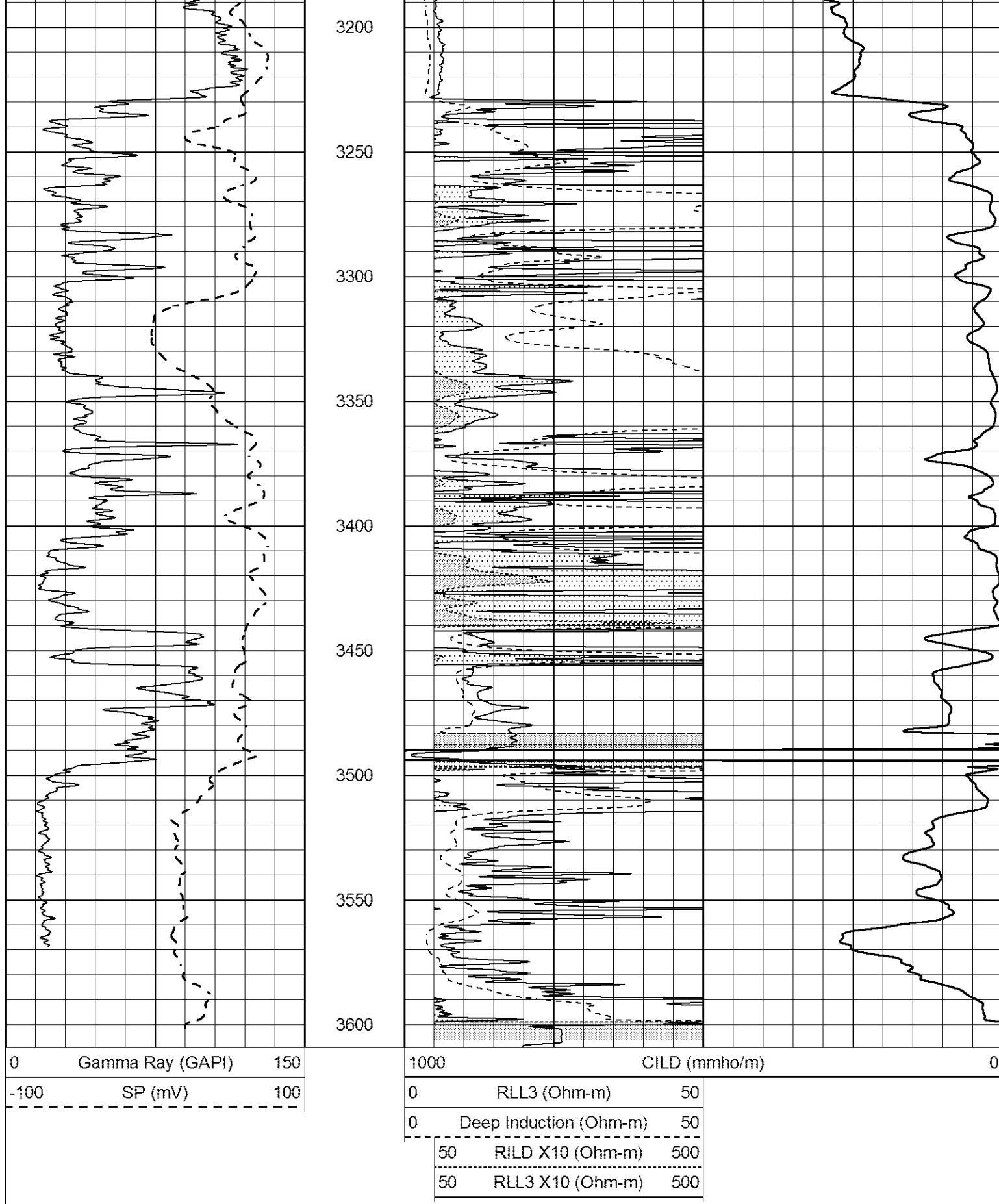
3000

3050

3100

3150

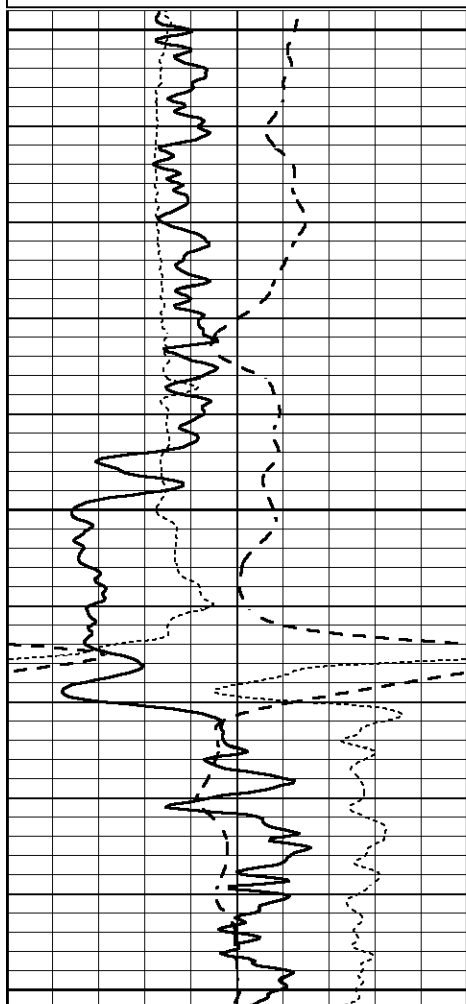




ANHYDRITE

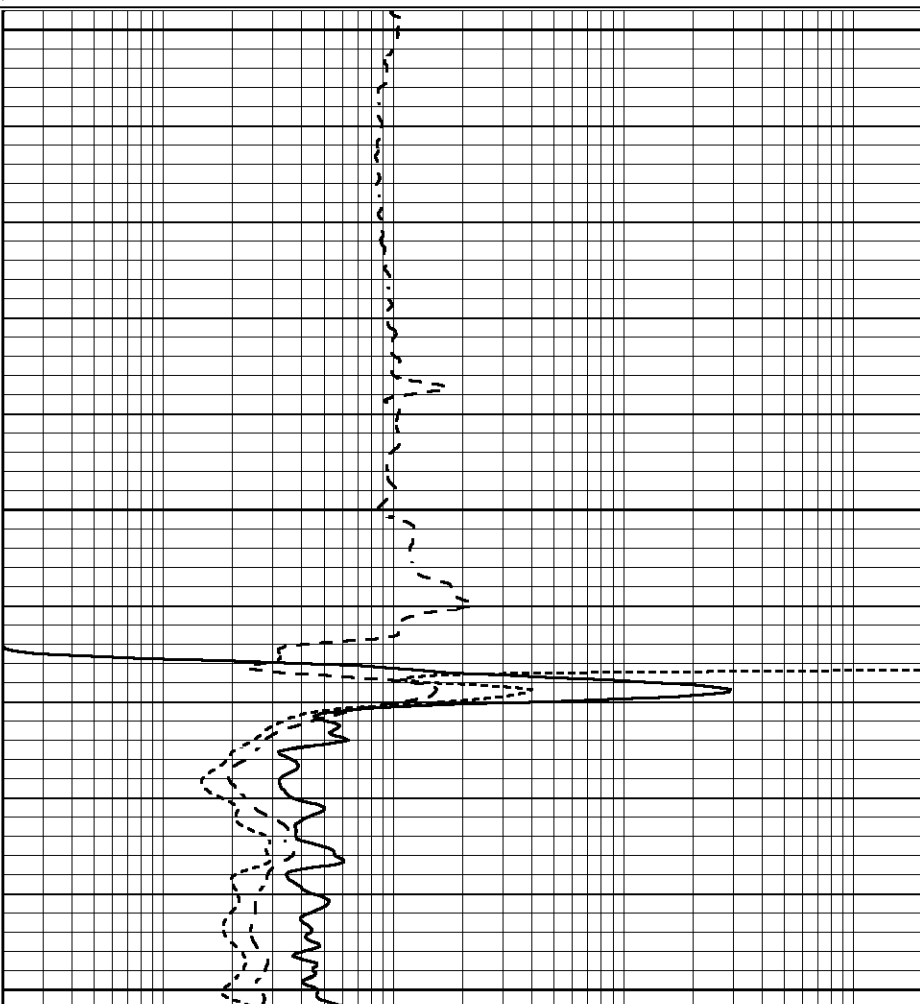
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 Dataset Pathname pass4.2
 Presentation Format _dil
 Dataset Creation Fri Nov 25 16:04:35 2016
 Charted by Depth in Feet scaled 1:240

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

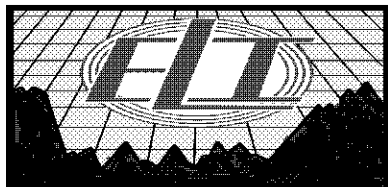


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

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



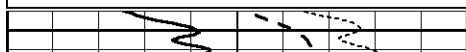
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



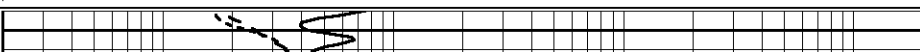
MAIN SECTION

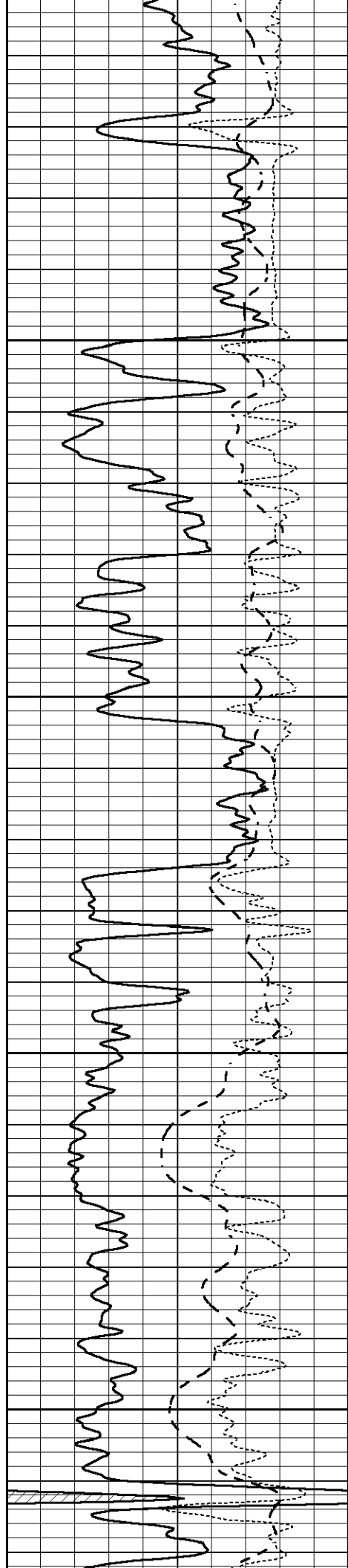
Database File 1104ddn8.db
 Dataset Pathname pass4.1
 Presentation Format _dil
 Dataset Creation Fri Nov 25 15:46:54 2016
 Charted by Depth in Feet scaled 1:240

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



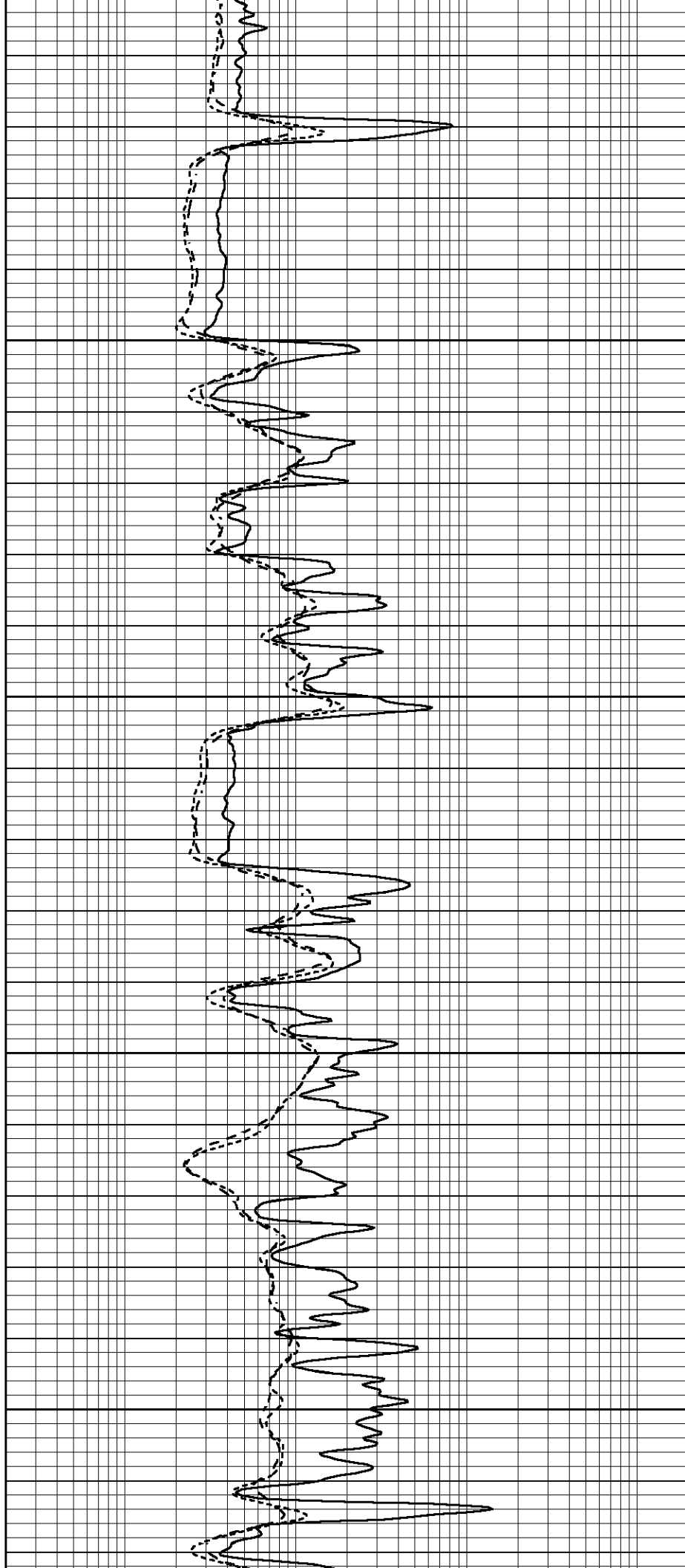


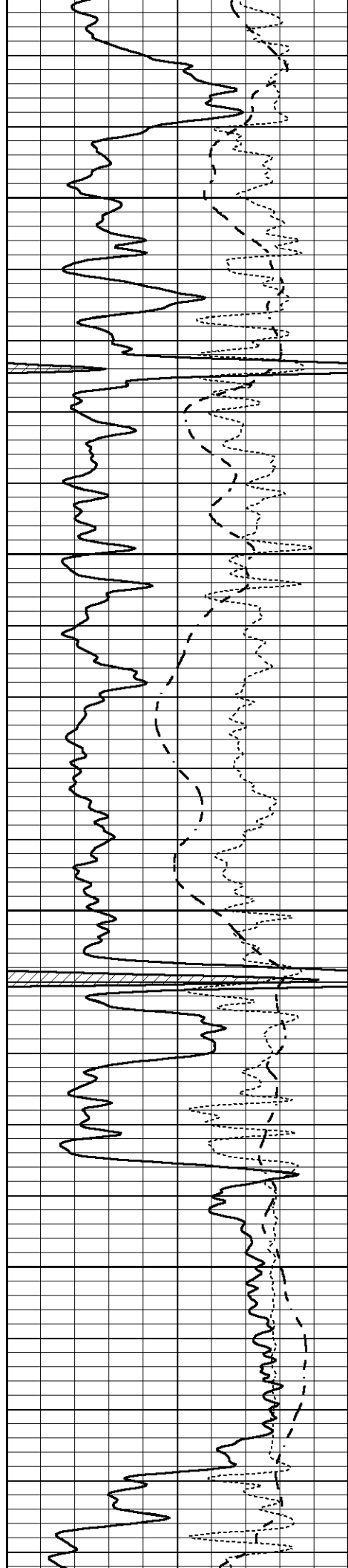
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2900

2950

3000



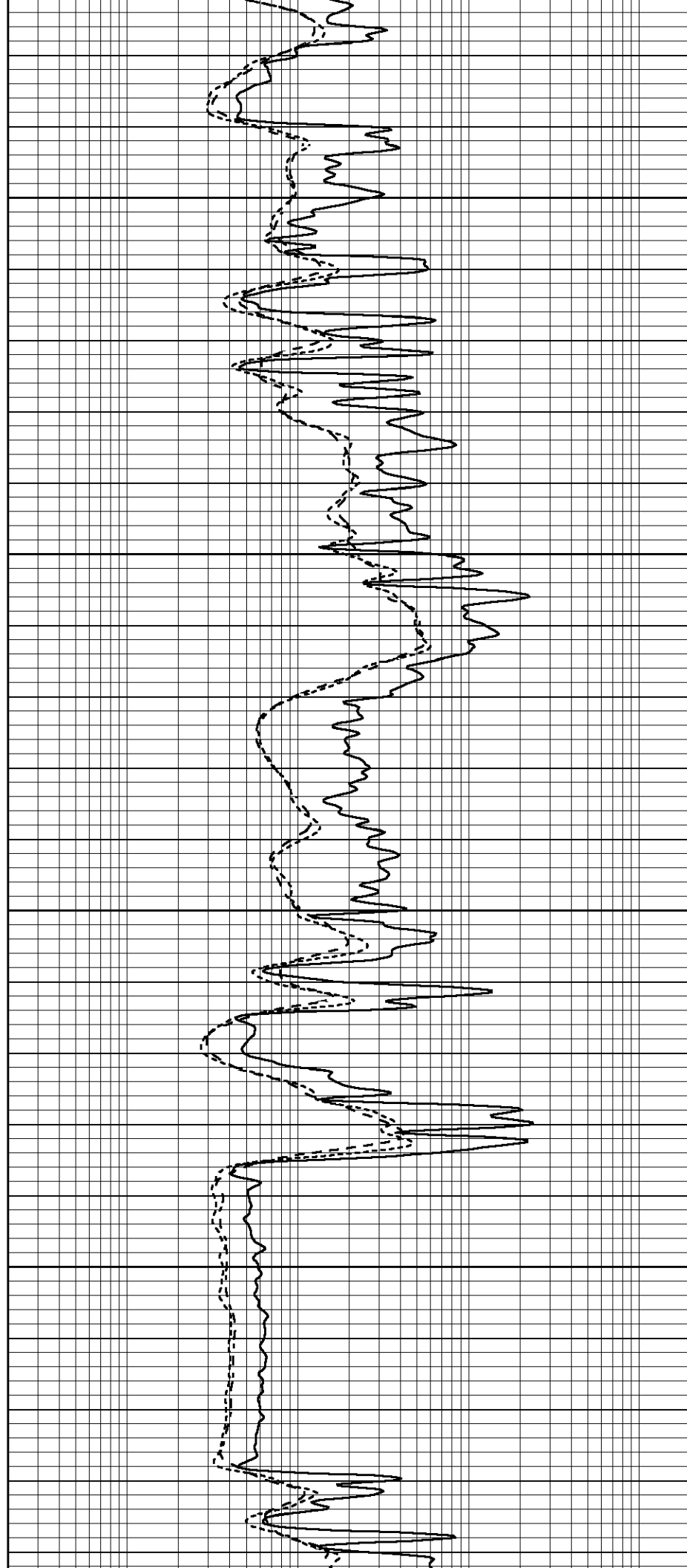


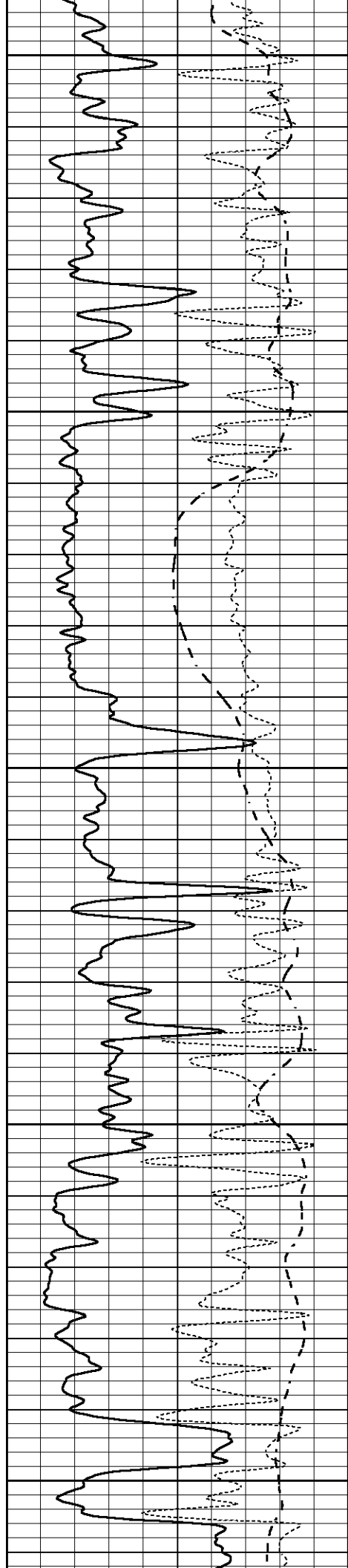
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3100

3150

3200





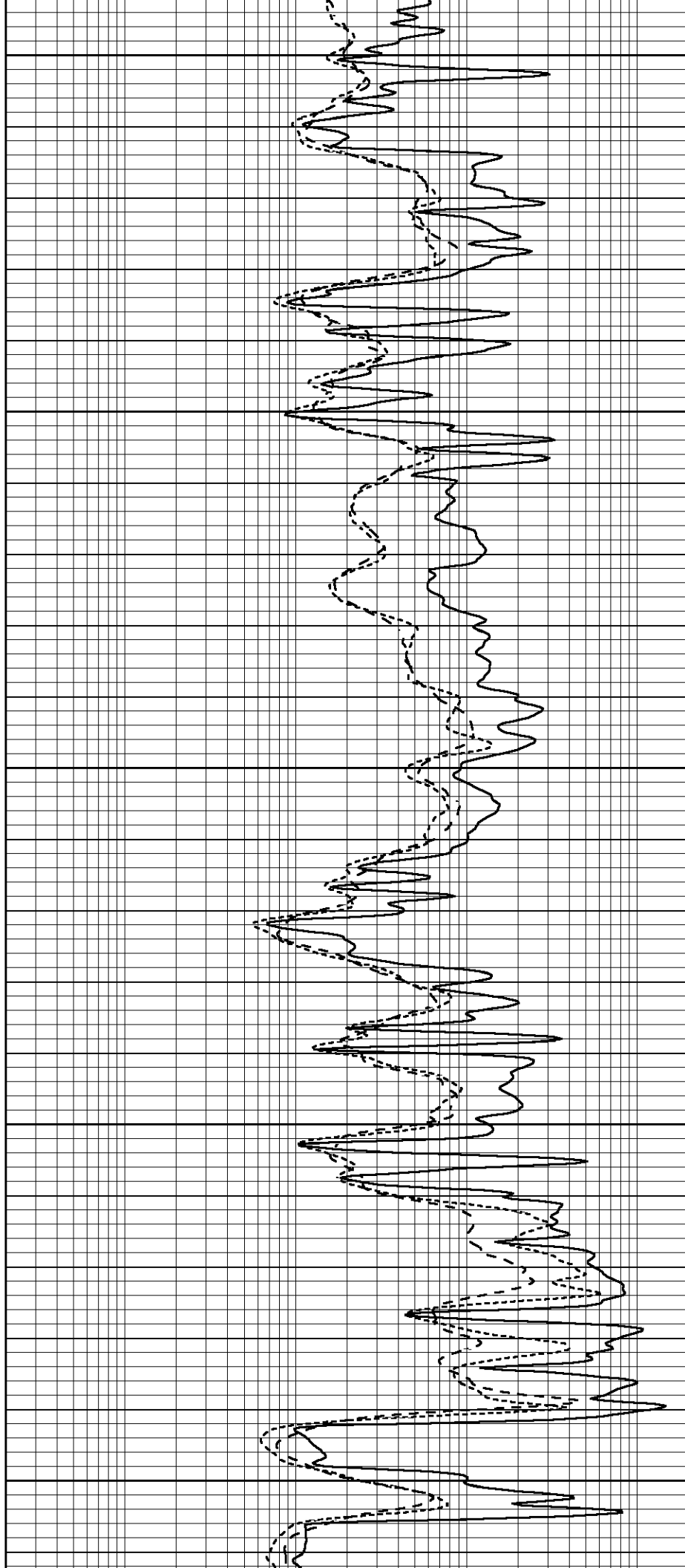
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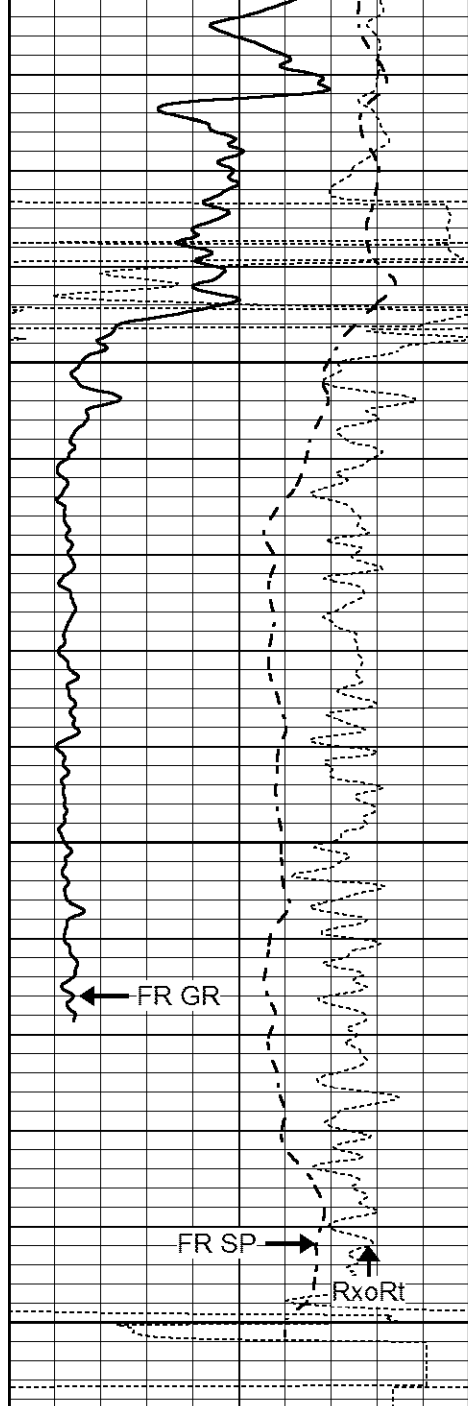
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3350

3400

3450



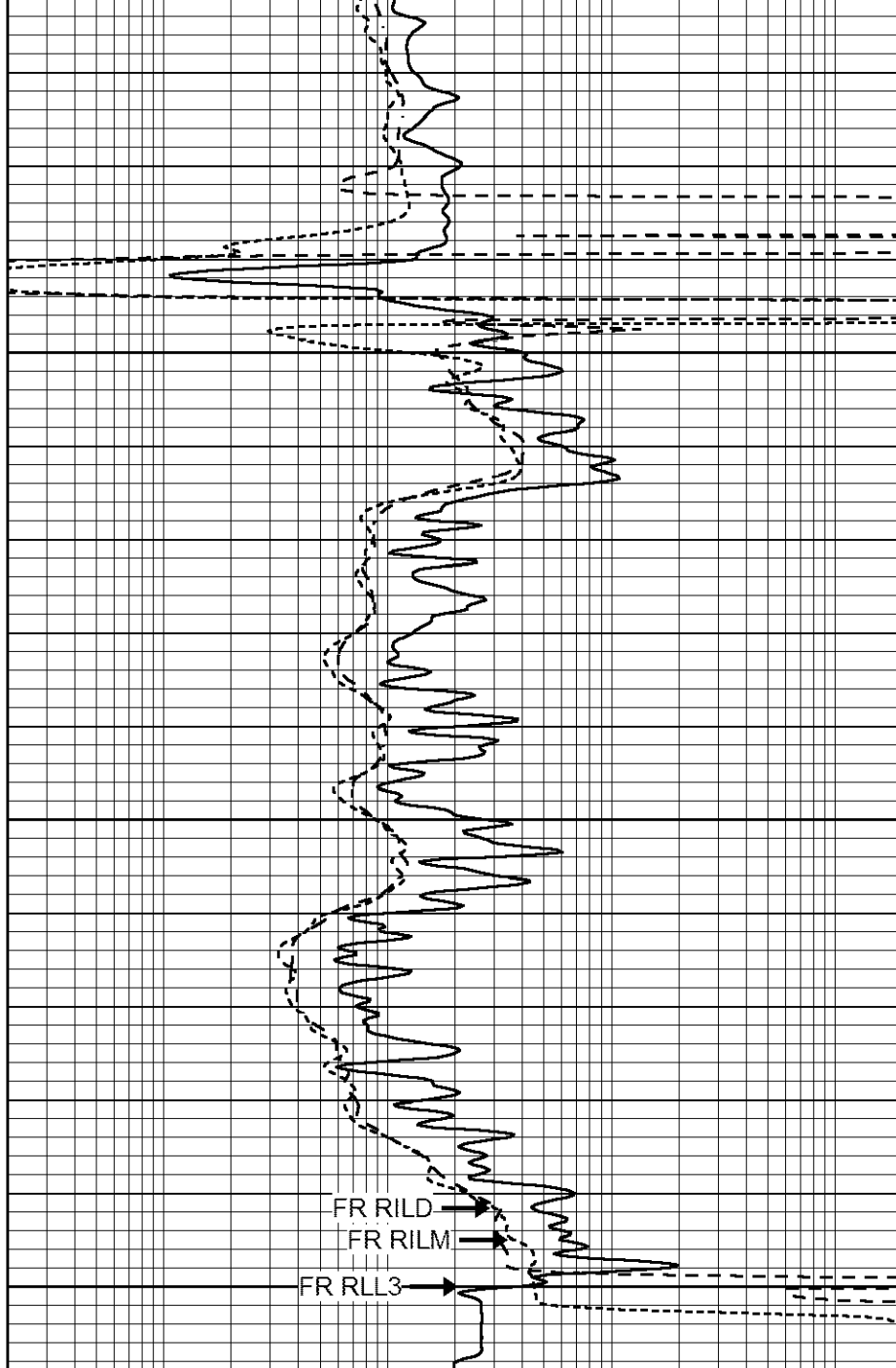


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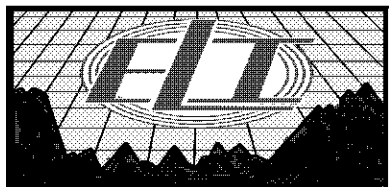
3550

3600
LTD 3602

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

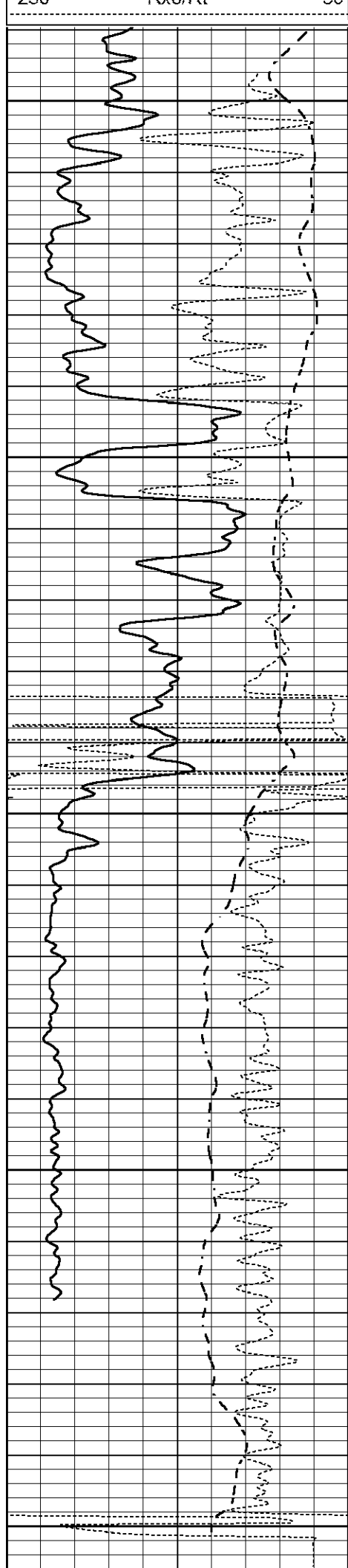


REPEAT SECTION

Database File 1104ddn8.db
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 Presentation Format _dil
 Dataset Creation Fri Nov 25 15:34:45 2016
 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



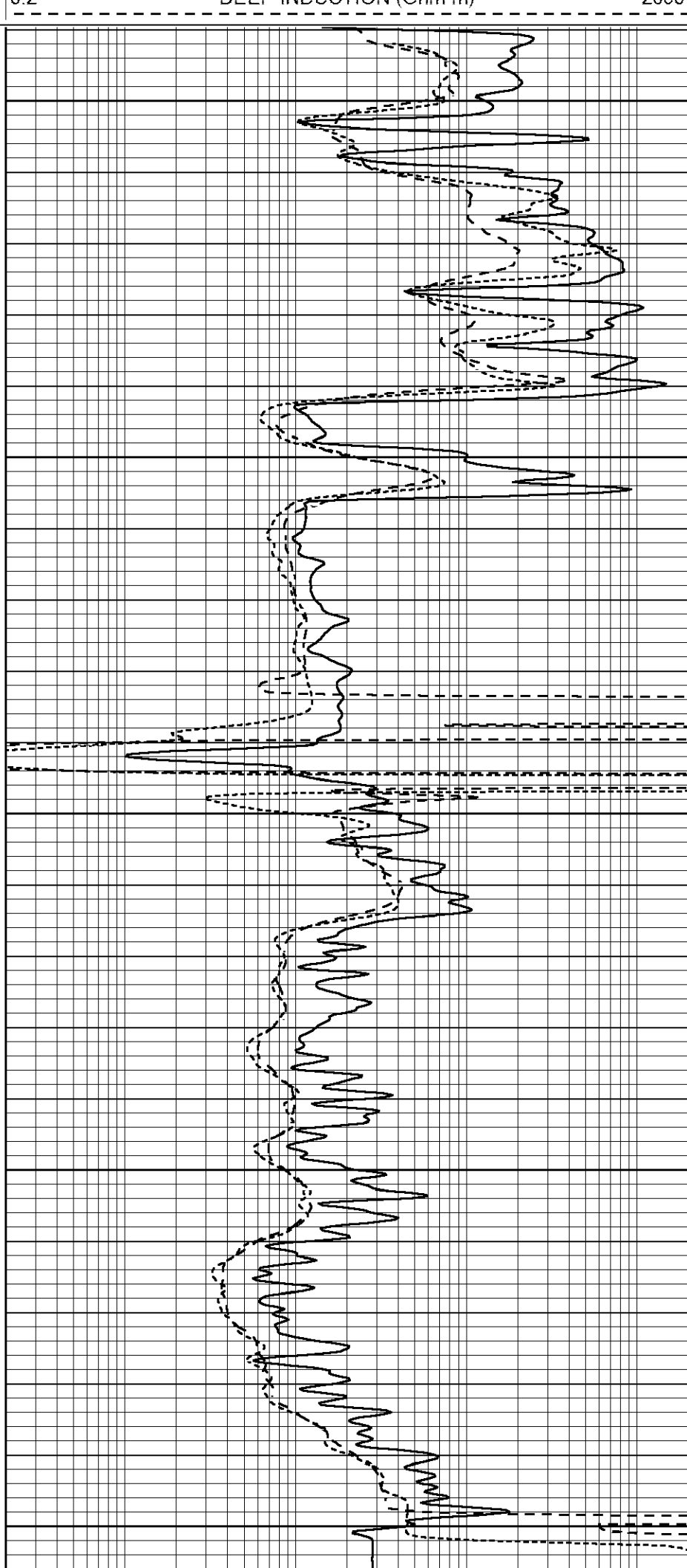
3400

3450

3500

3550

3600



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	1104ddn8.db
Dataset Pathname	pass4.1
Dataset Creation	Fri Nov 25 15:46:54 2016

Dual Induction Calibration Report	
Serial-Model:	FW1410-55-Probe
Surface Cal Performed:	Thu Mar 12 09:27:11 2015
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'
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:	140703
Model:	V4_10P
Source Number:	74GBq-19

Master Calibration		Performed: Wed Feb 11 16:57:09 2015		
	Background	Aluminum	Magnesium	
Window 1	594.39	6349.98	29204.00	cps
Window 2	47.14	1460.46	7334.94	cps
Window 4	261.52	1478.45	6338.23	cps
Window 5	633.19	10381.10	19565.80	cps

Window 5	655.19	10507.16	15505.00	cps	
Window 6	49.78	1758.01	3436.39	cps	
Window 8	302.39	3297.16	6093.06	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8570	SS Alpha:	: -0.7600	LS CPE:	: 1.1652
LS Beta:	: 157430.0395	SS Beta:	: 22665.8398	SS CPE:	: 1.4739

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 Feb 11 16:57:09 2015	
Results	Readings	References (in)		Gain	Offset
Low	High	Low	High		
5280.9	9455.1	8.6	14.0	0.0	1.2

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

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

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					
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Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	070558		
Tool Model:	Probe1		
Performed:	Wed Jun 29 08:29:10 2016		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	