



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

DUAL INDUCTION LOG

Company		BLURIDGE PETROLEUM CORP.	
Well		NORMAN #1-1	
Field		WILDCAT	
County		RAWLINS	
State		KANSAS	
Company		BLUERIDGE PETROLEUM CORPORATION	
Well		NORMAN #1-1	
Field		WILDCAT	
County		RAWLINS	
State		KANSAS	
Location:		API # : 15-153-21077-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 5' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 11 TWP 4S RGE 32W		Elevation	
		K.B. 2955	
		D.F. 2953	
		G.L. 2950	
Date	11/17/14		
Run Number	ONE		
Depth Driller	4540		
Depth Logger	4520		
Bottom Logged Interval	4518		
Top Log Interval	00		
Casing Driller	8 5/8"@267'		
Casing Logger	265		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	8.9/44		
pH / Fluid Loss	10.0/7.6		
Source of Sample	FLOWLINE	CHLORIDES 2000 PPM	
Rim @ Meas. Temp	1.60@70F		
Rmf @ Meas. Temp	1.20@70F		
Rmc @ Meas. Temp	1.92@70F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.926@121F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	11:00 A.M.		
Maximum Recorded Temperature	121F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JIM MUSGROVE		

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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 "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
GEM, KS., 23 N. ON "RD. 27" TO "RD. L", 1/2E., S. INTO



**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File:

25914pe.db

Dataset Pathname:

pass3.14

Presentation Format:

dil2

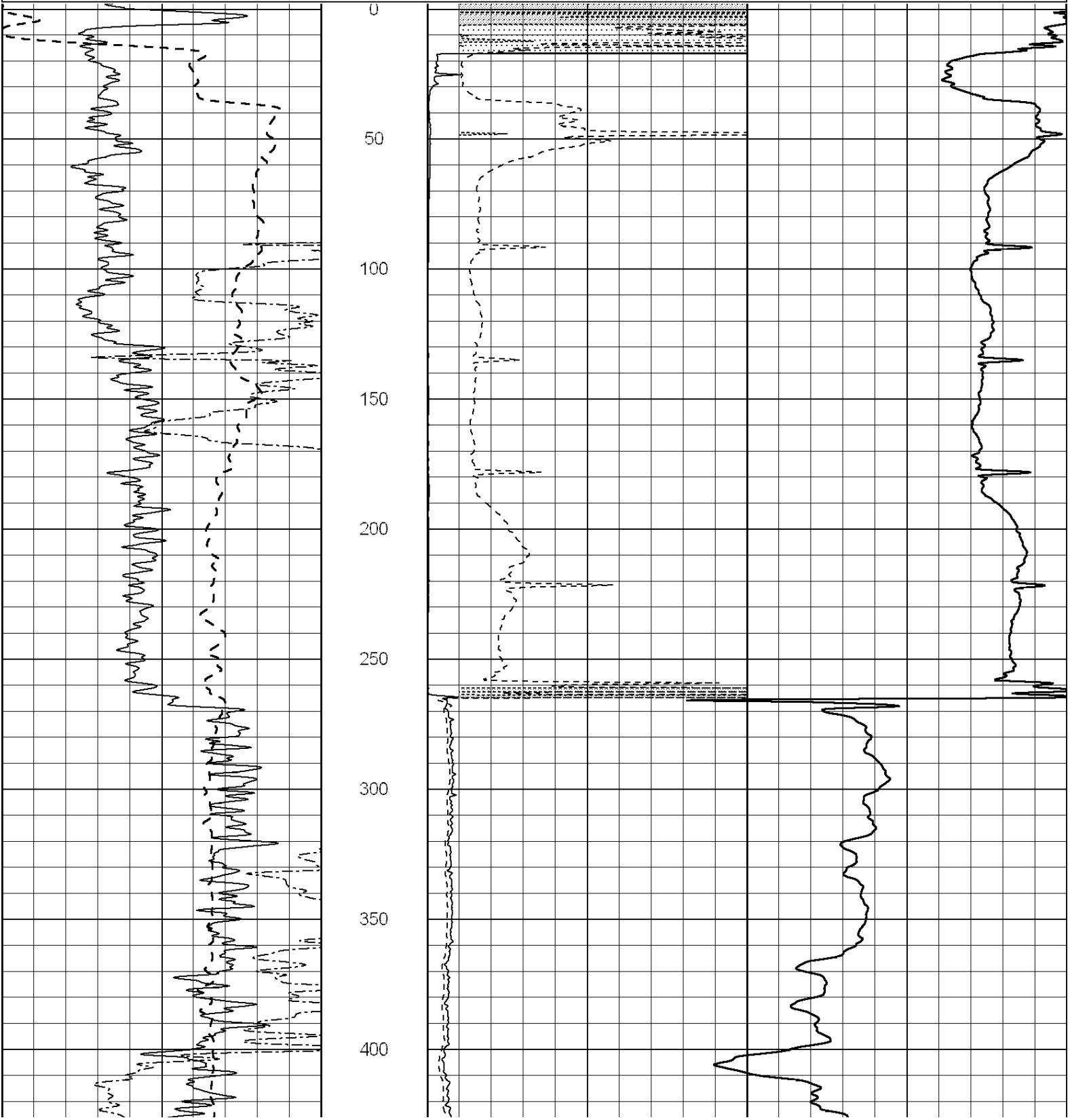
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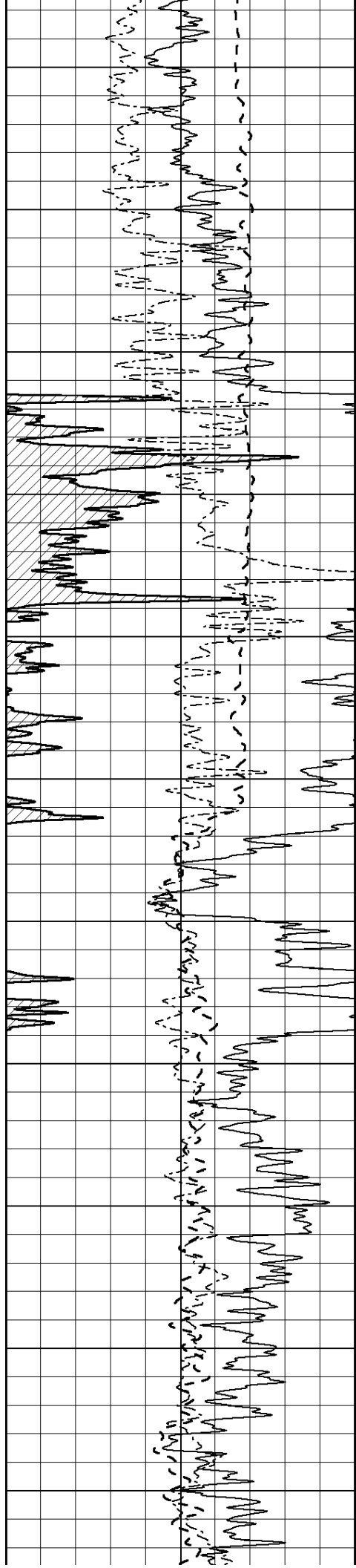
Mon Nov 17 13:11:01 2014

Charted by:

Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	0	RLL3 (Ohm-m)	50	
-100	SP (mV)	100	0	RILD (Ohm-m)	50	
0	RWA (Ohm-m)	1	1000		CILD (mmho/m)	0
			50	RILD X10 (Ohm-m)	500	
			50	RLL3 X10 (Ohm-m)	500	





450

500

550

600

650

700

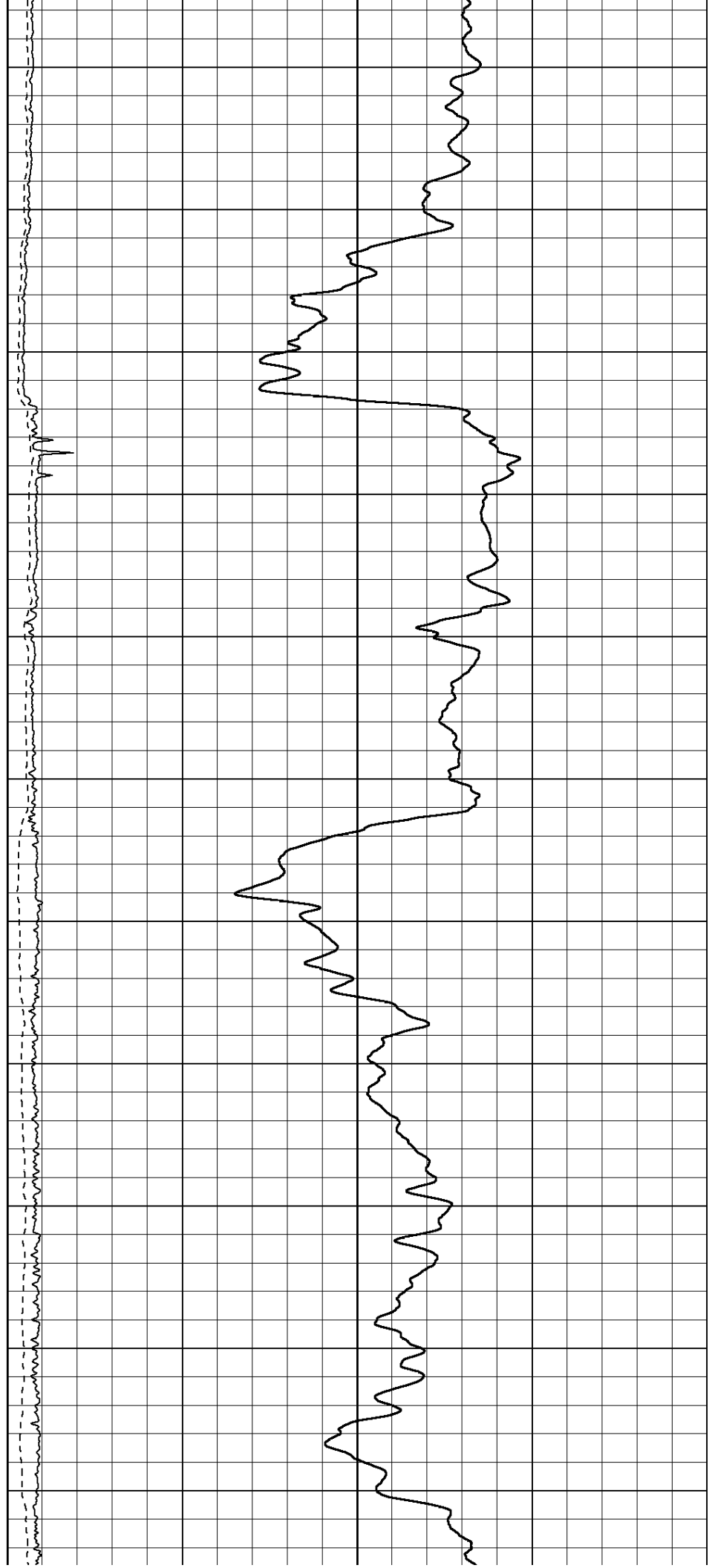
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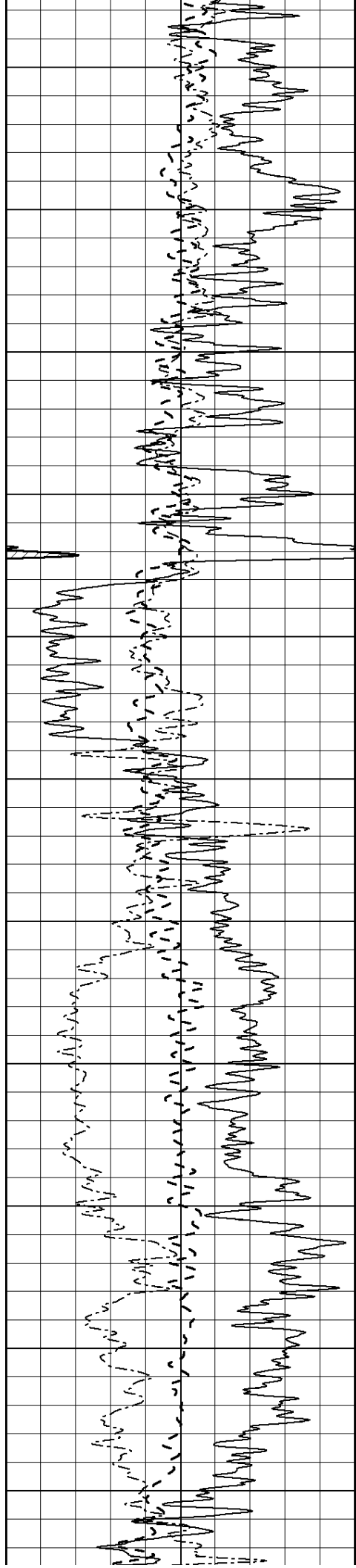
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850

900

950





1000

1050

1100

1150

1200

1250

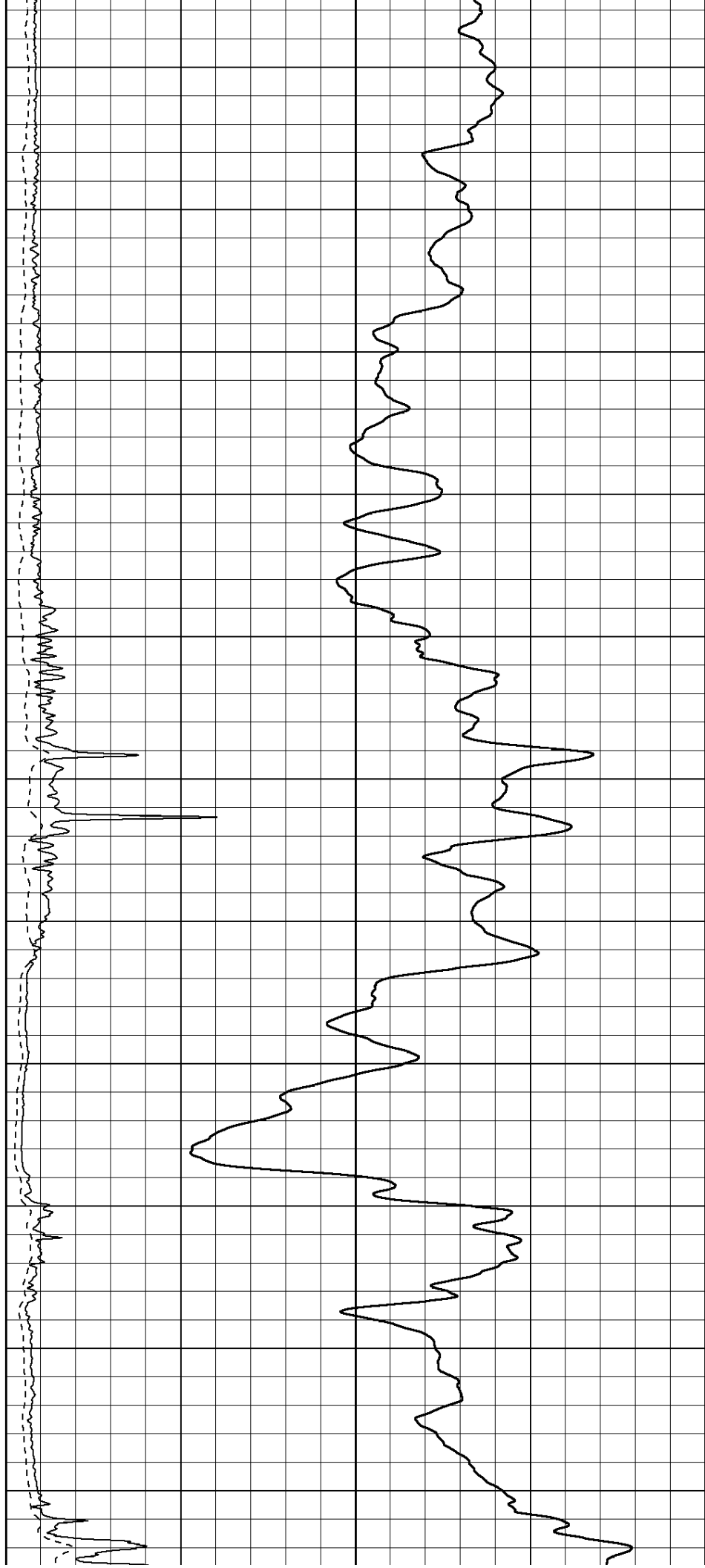
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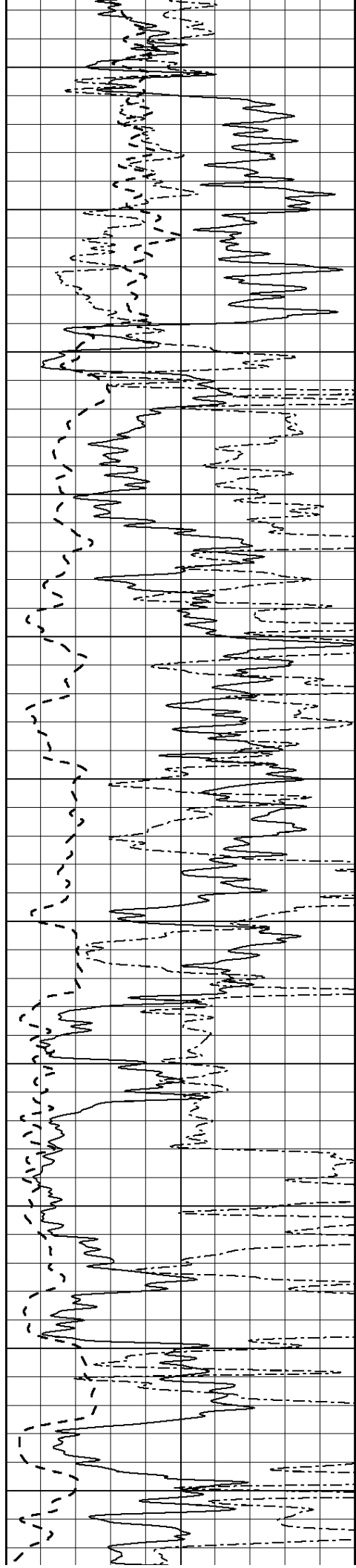
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1400

1450

1500





1550

1600

1650

1700

1750

1800

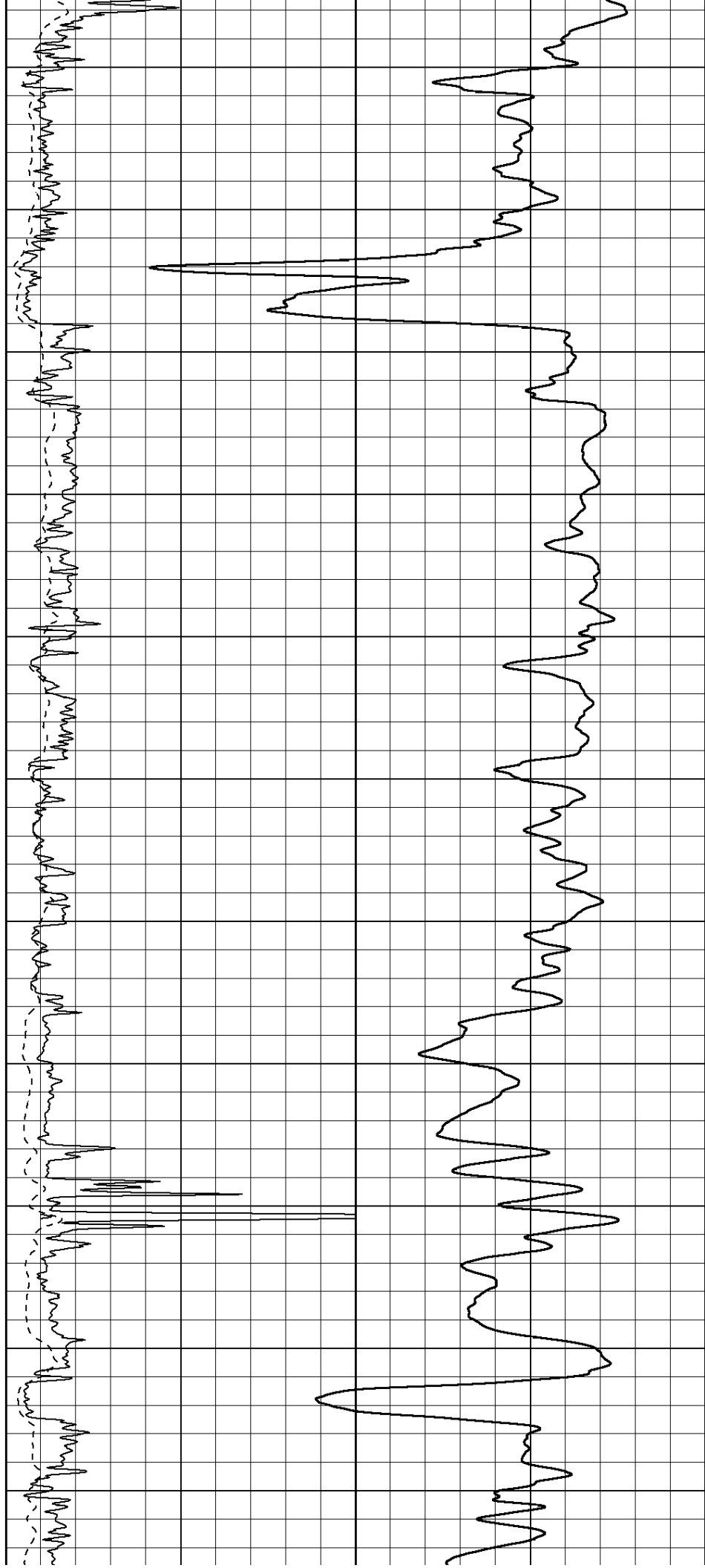
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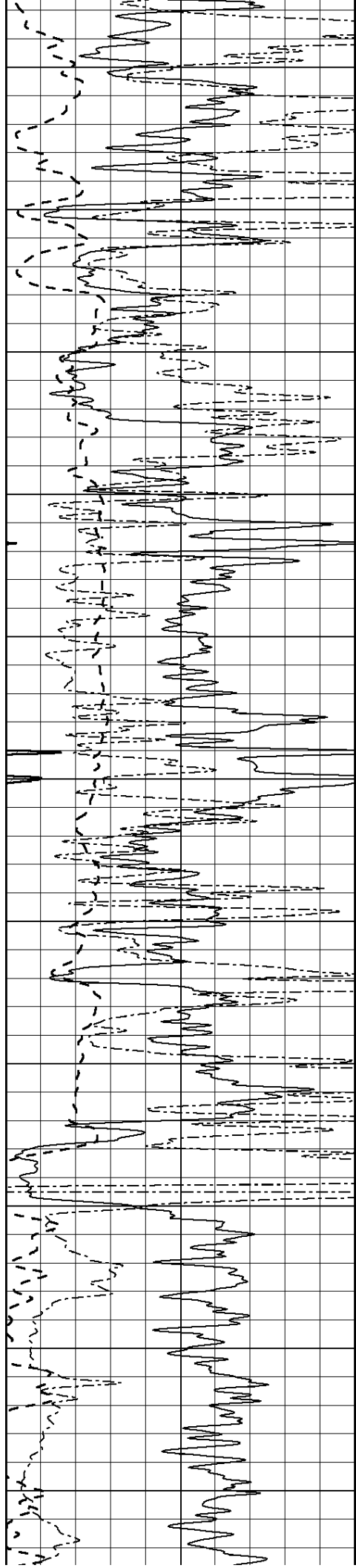
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1950

2000

2050





2100

2150

2200

2250

2300

2350

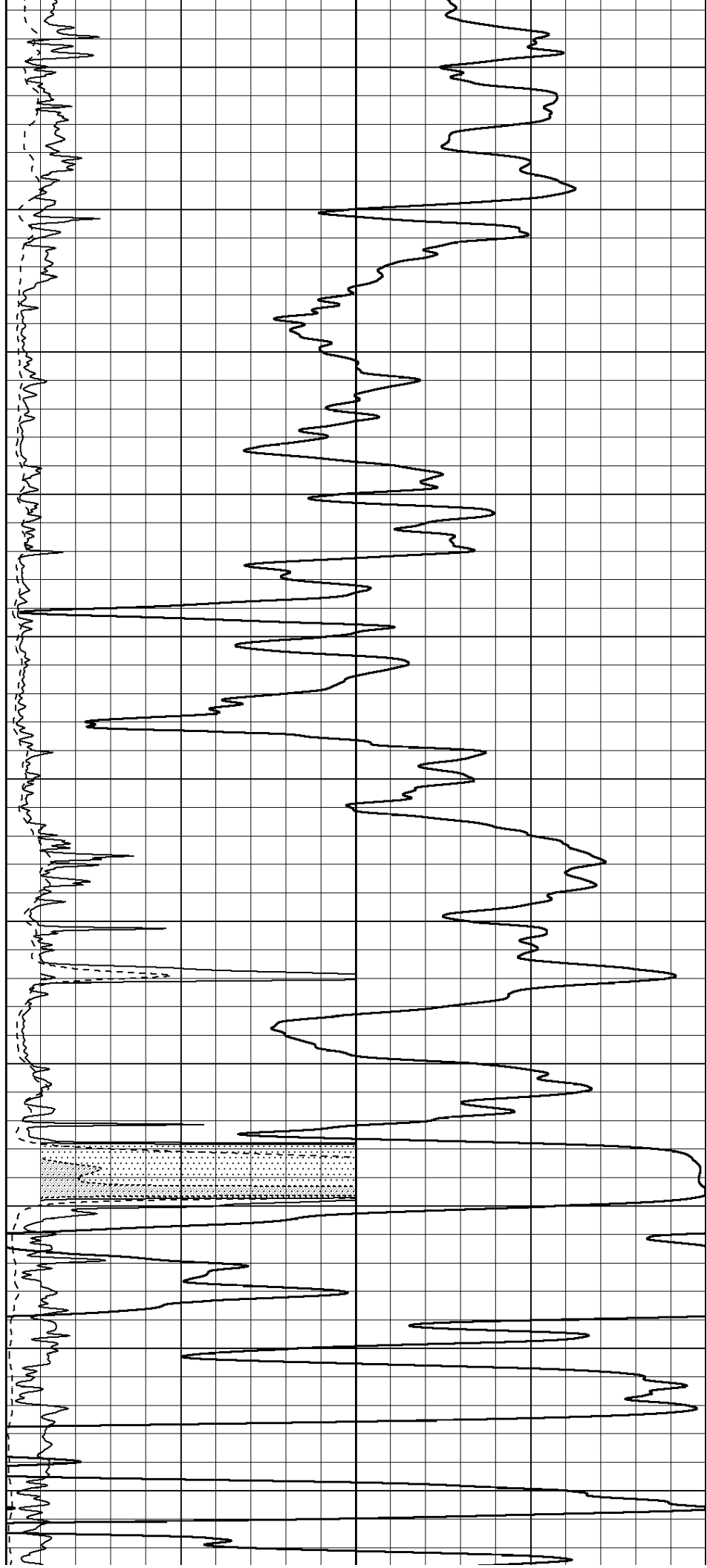
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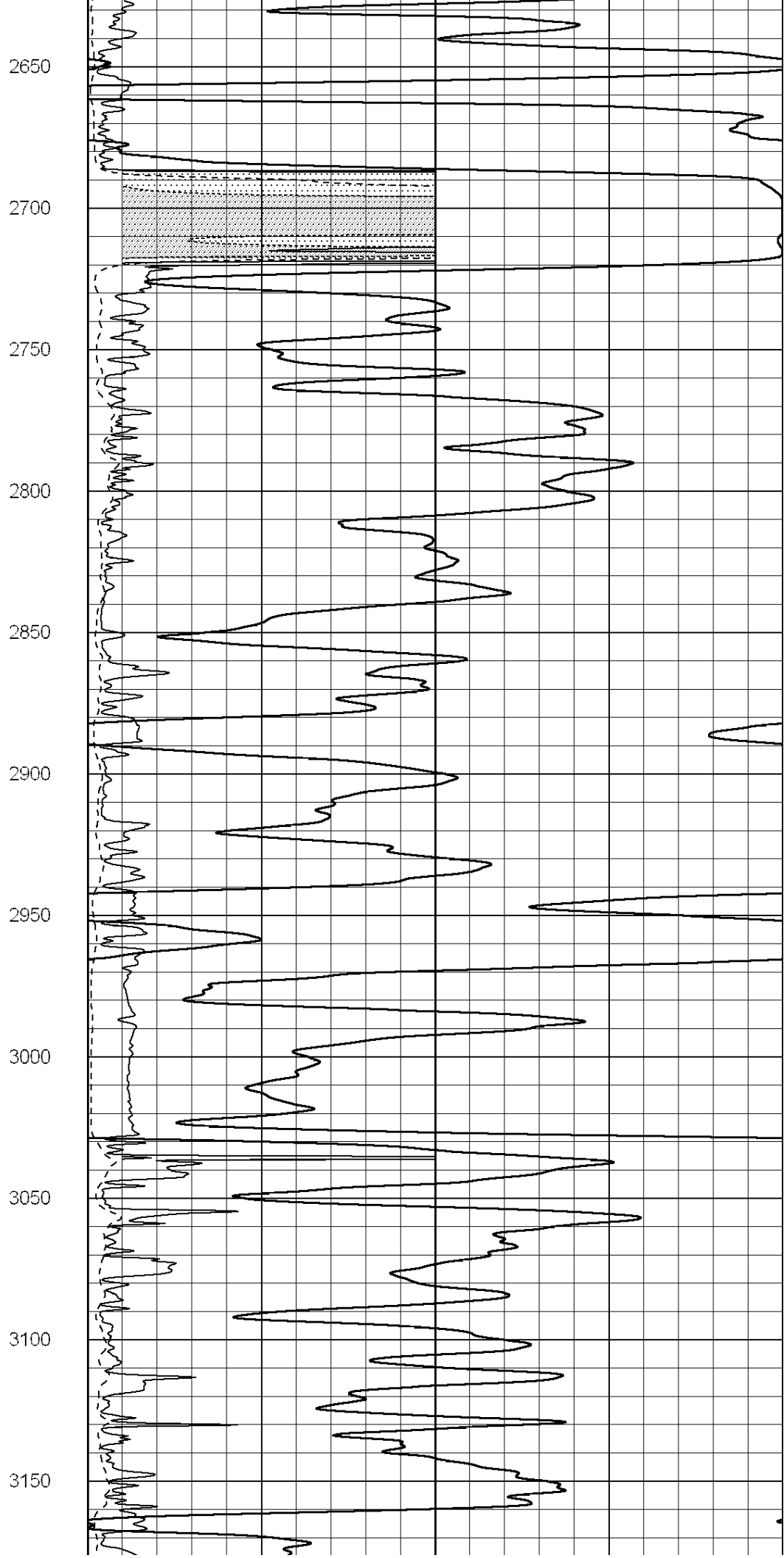
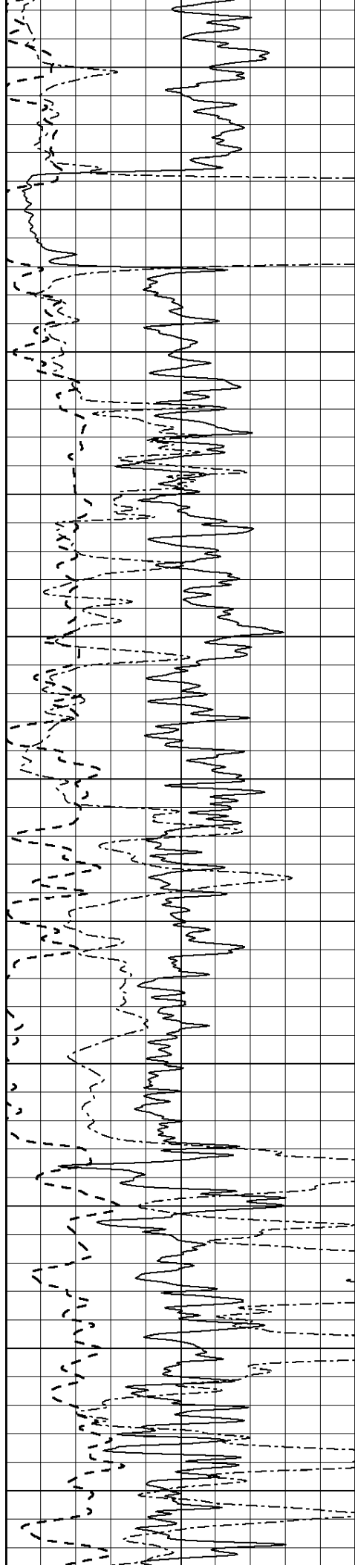
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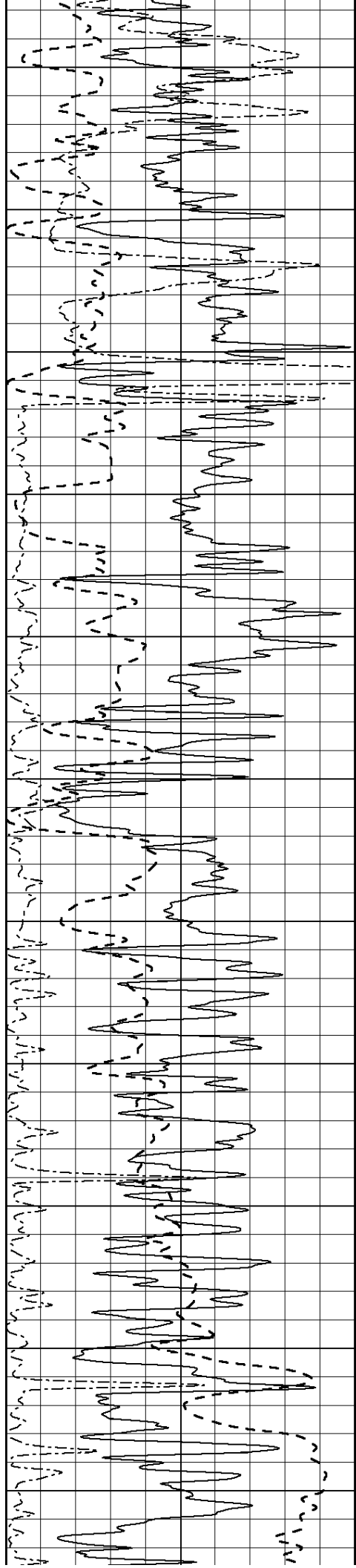
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2550

2600







3200

3250

3300

3350

3400

3450

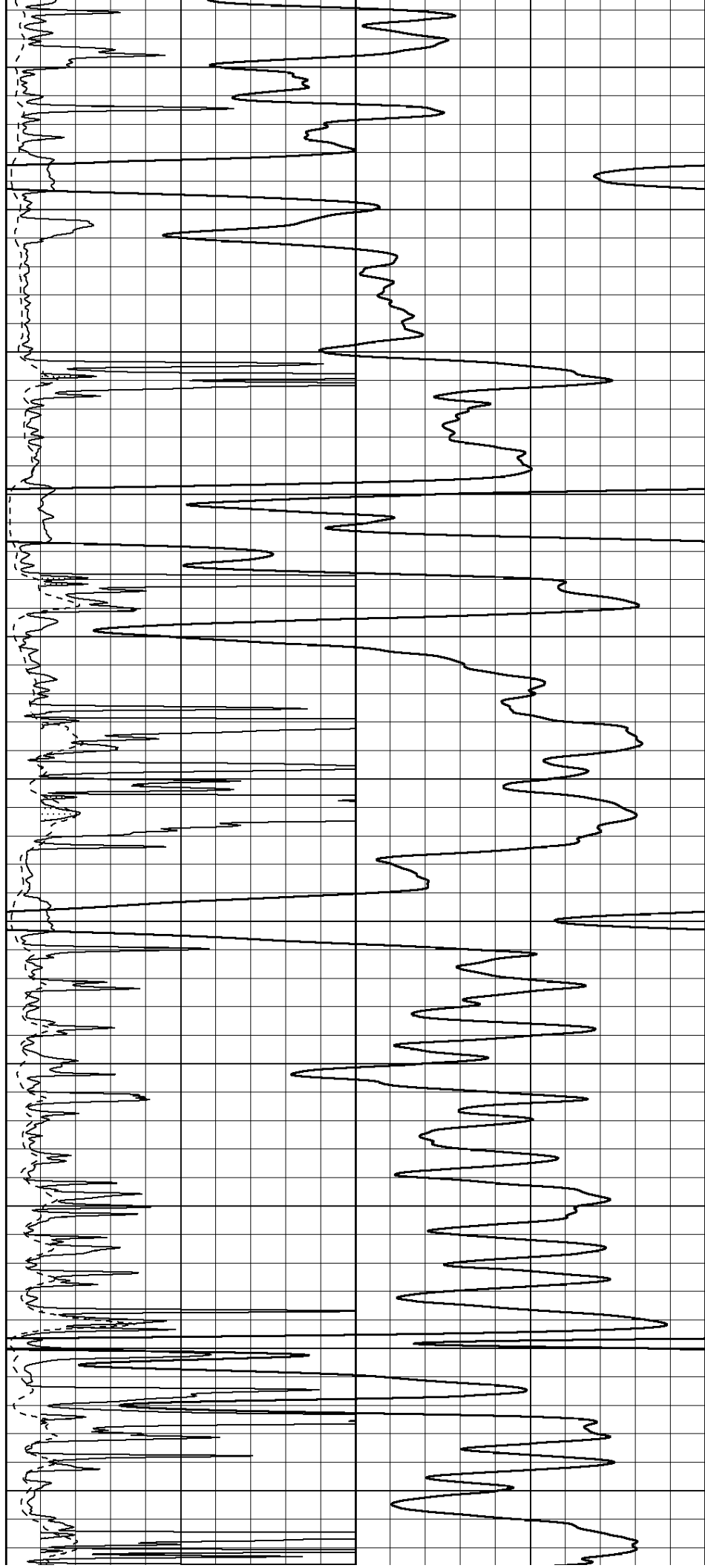
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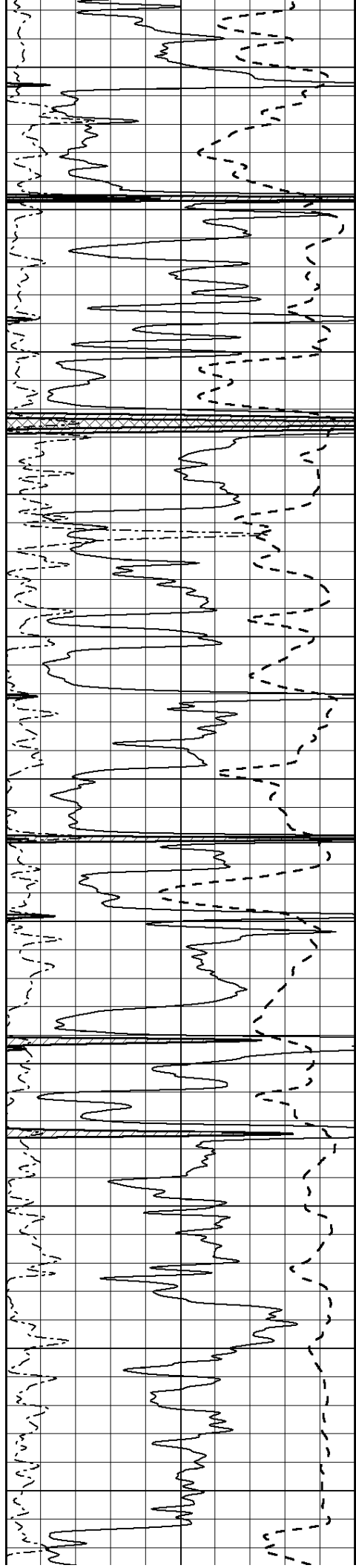
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3600

3650

3700





3750

3800

3850

3900

3950

4000

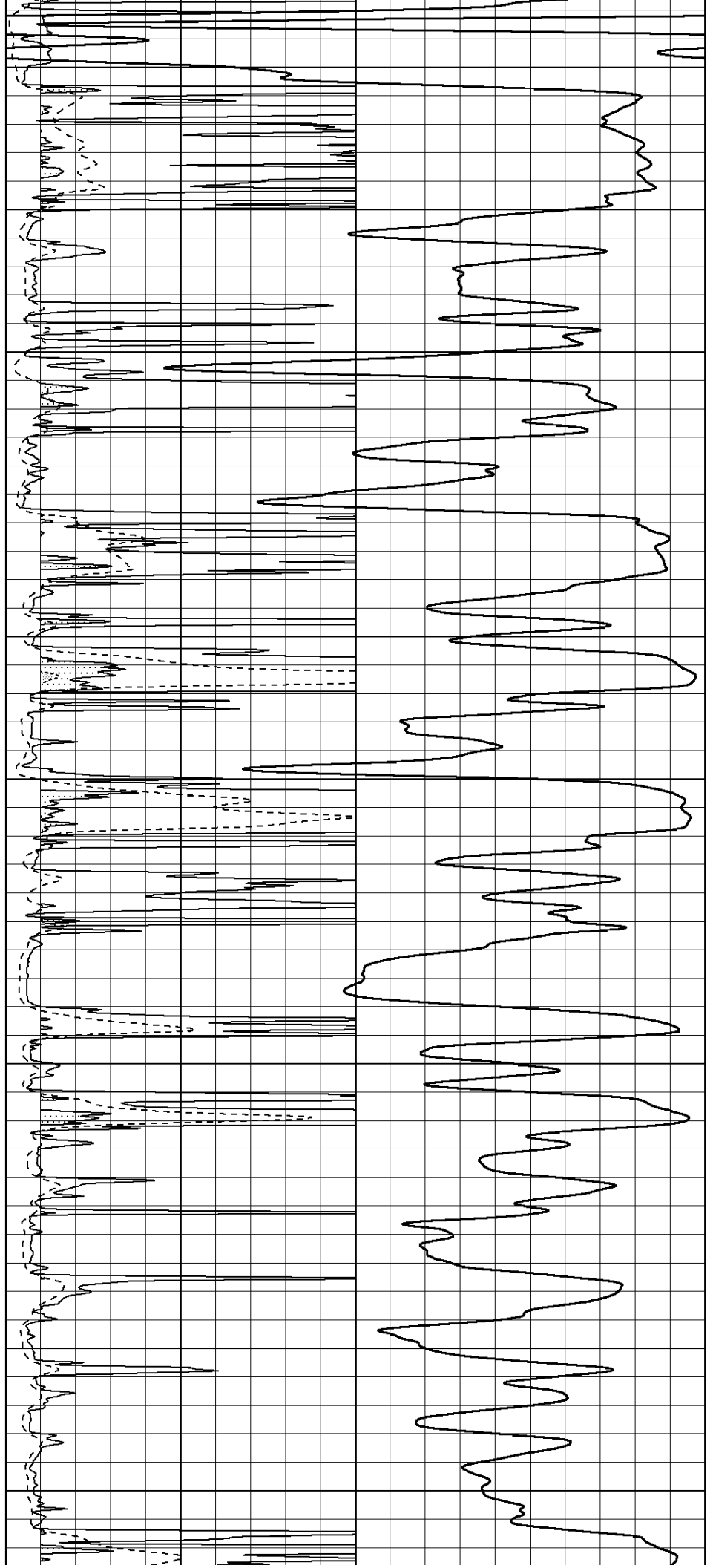
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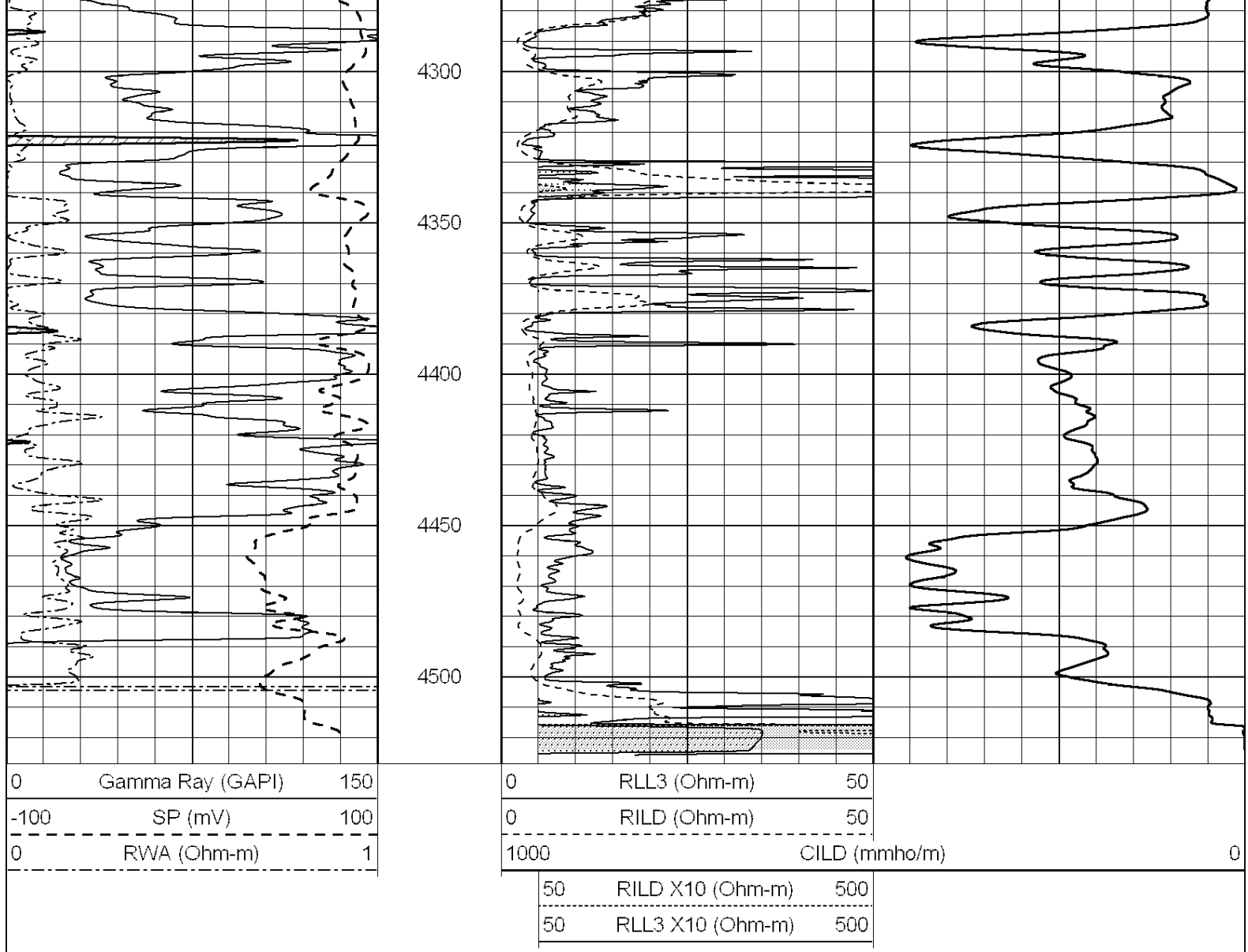
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4200

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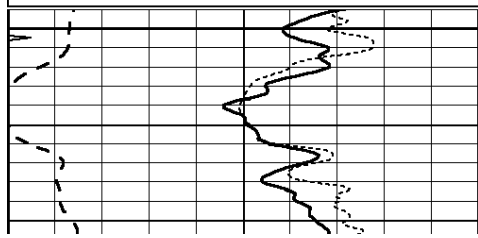
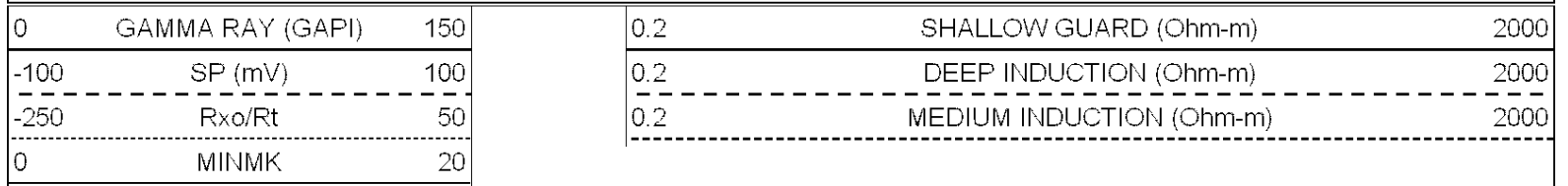




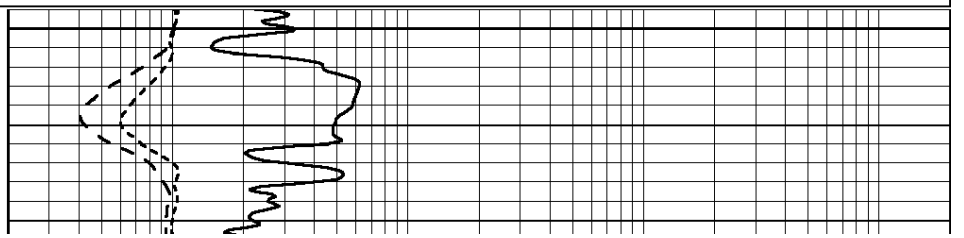
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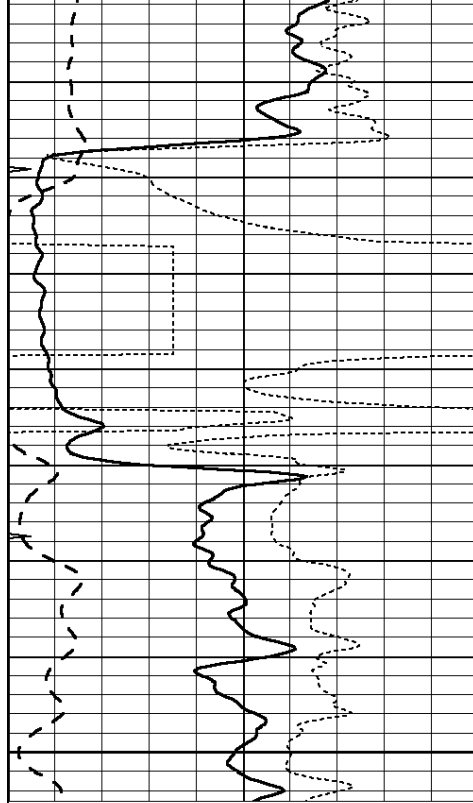
ANHYDRITE

Database File: 25914pe.db
Dataset Pathname: pass3.15
Presentation Format: _dil
Dataset Creation: Mon Nov 17 13:11:47 2014
Charted by: Depth in Feet scaled 1:240



2650

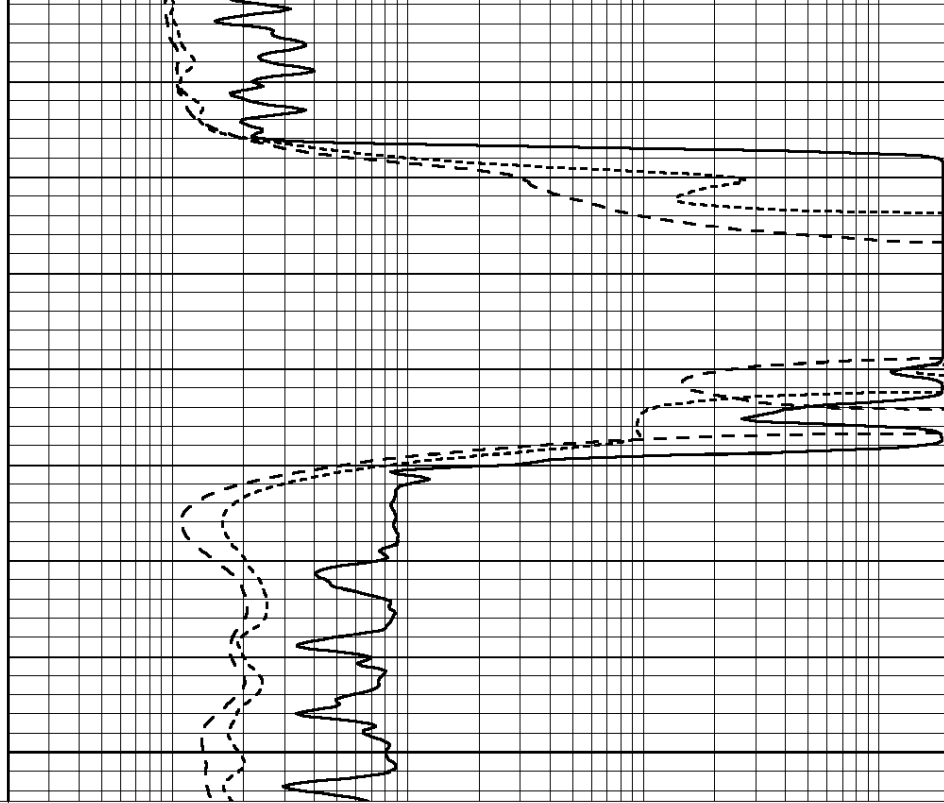




2700

2750

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



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



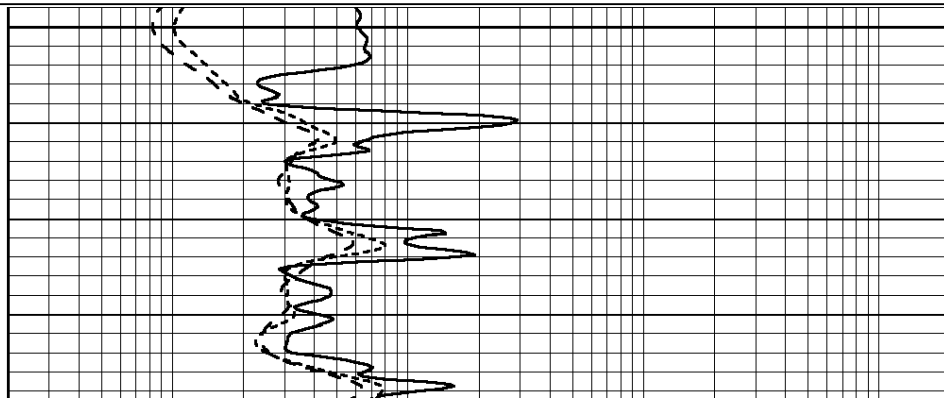
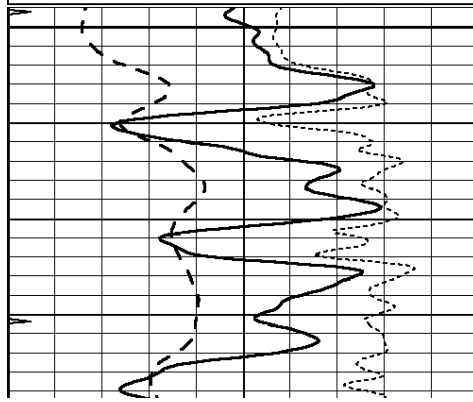
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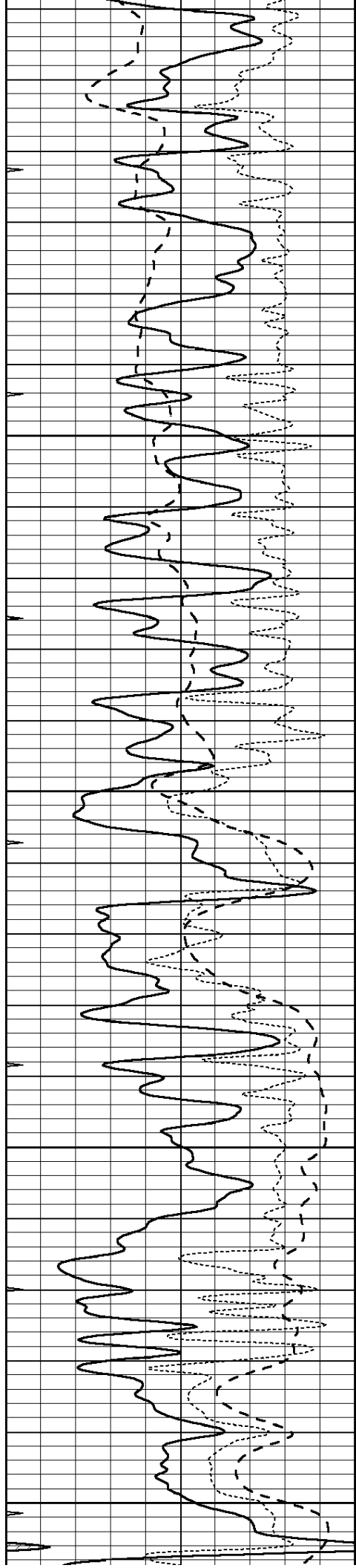
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 Dataset Pathname: pass3.14
 Presentation Format: _dil
 Dataset Creation: Mon Nov 17 13:11:01 2014
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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

3500





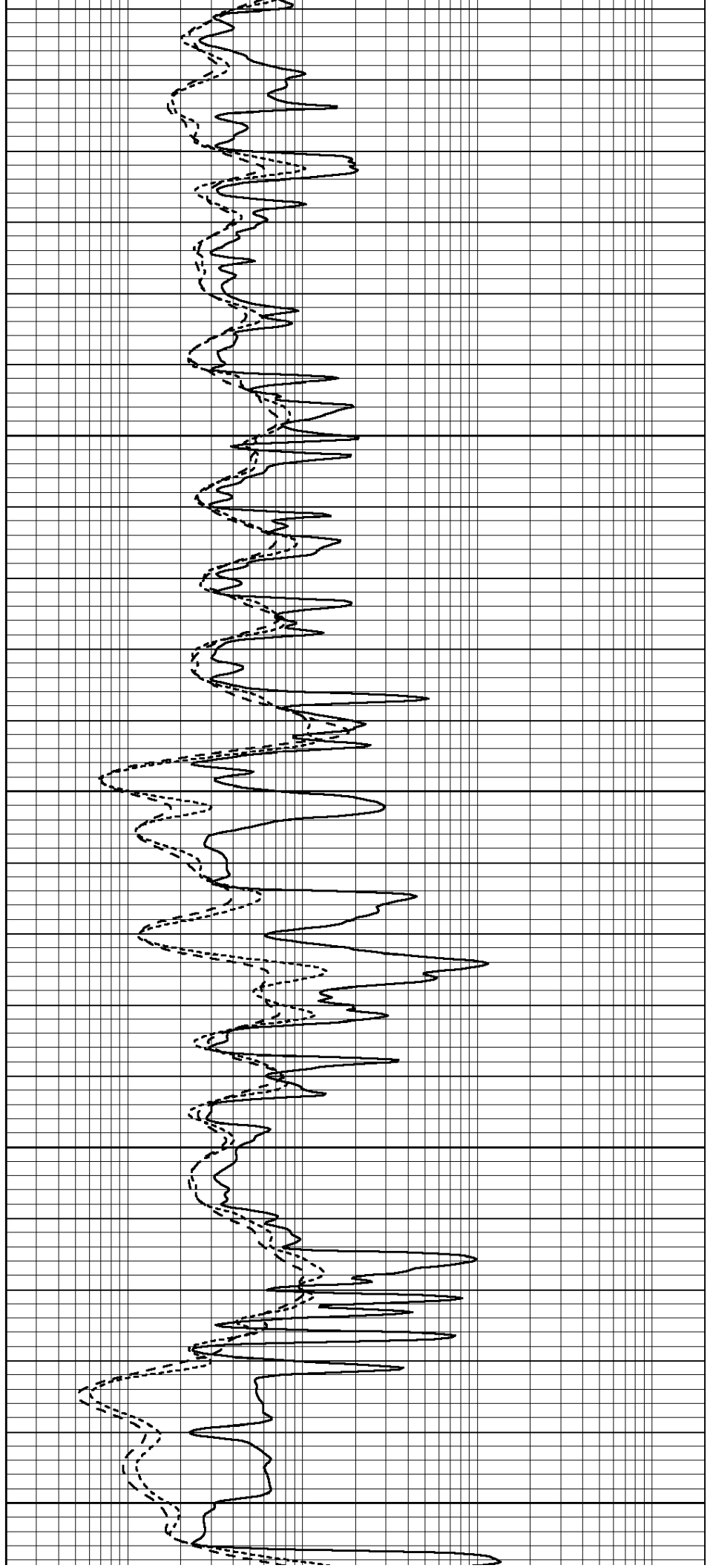
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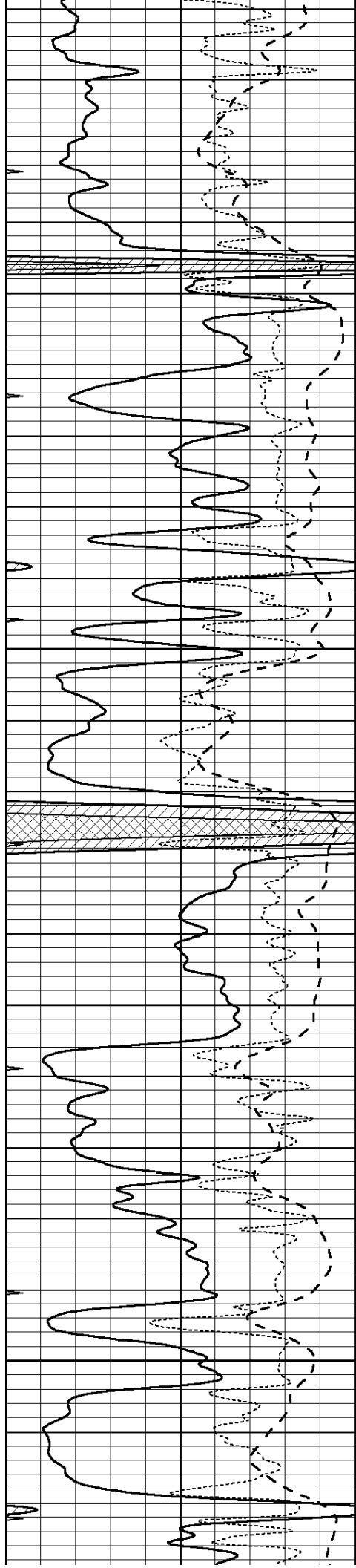
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3650

3700

3750



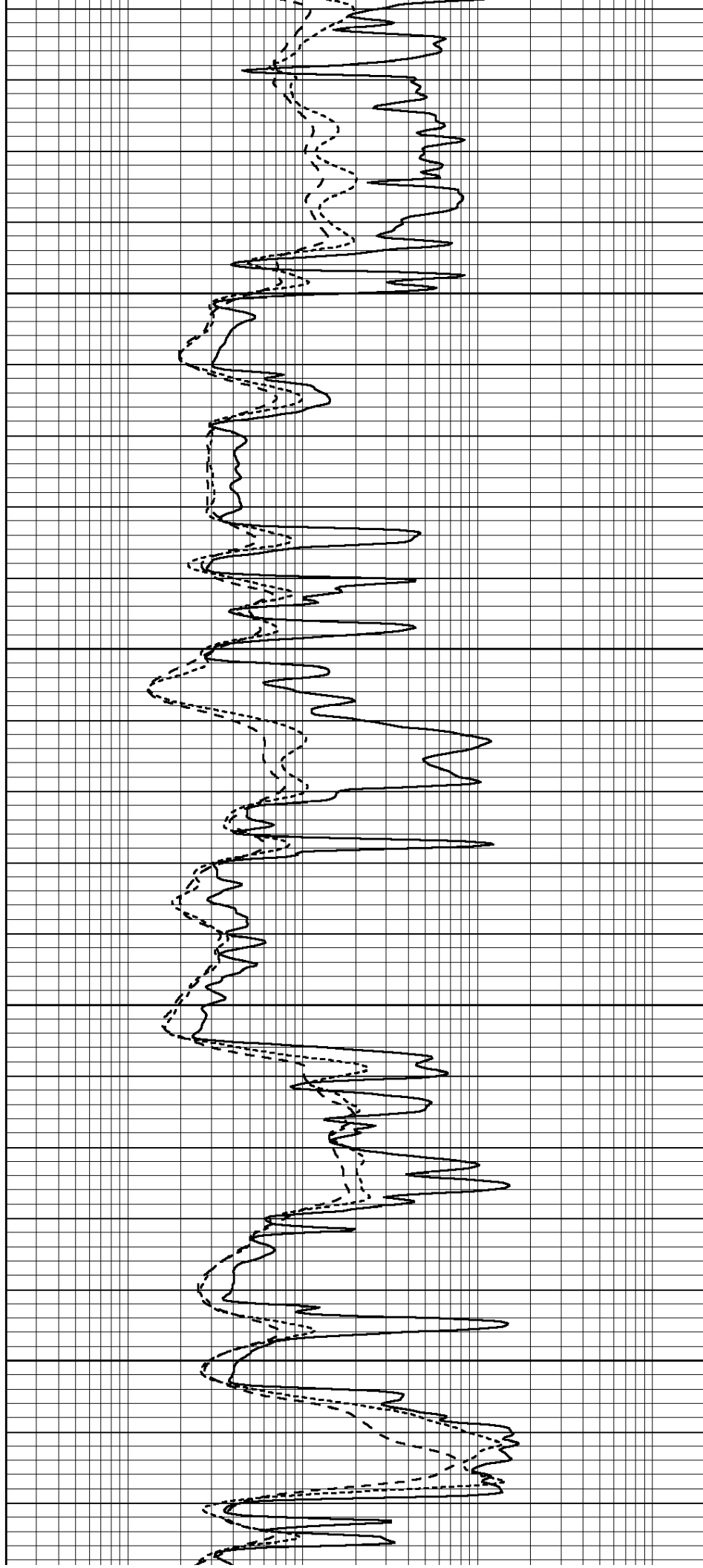


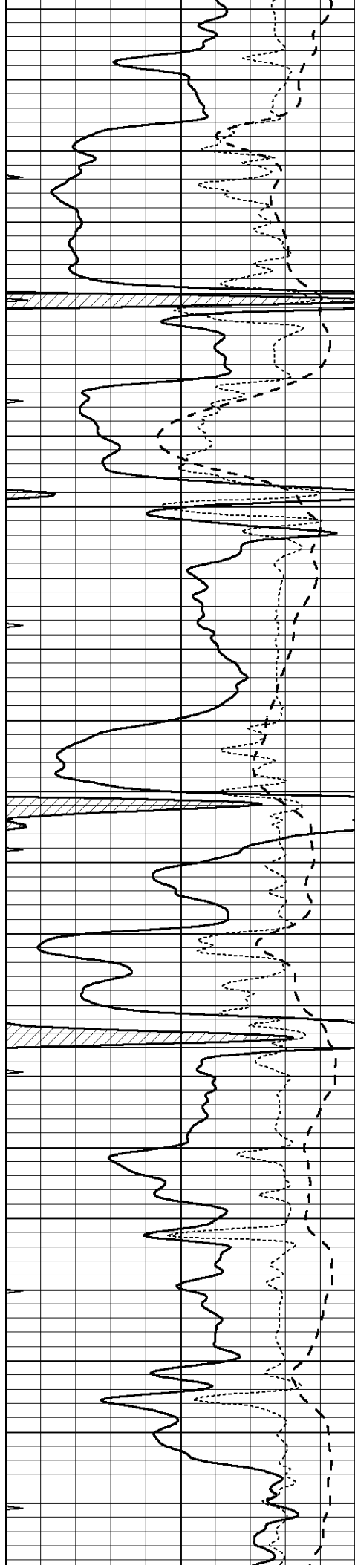
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3850

3900

3950



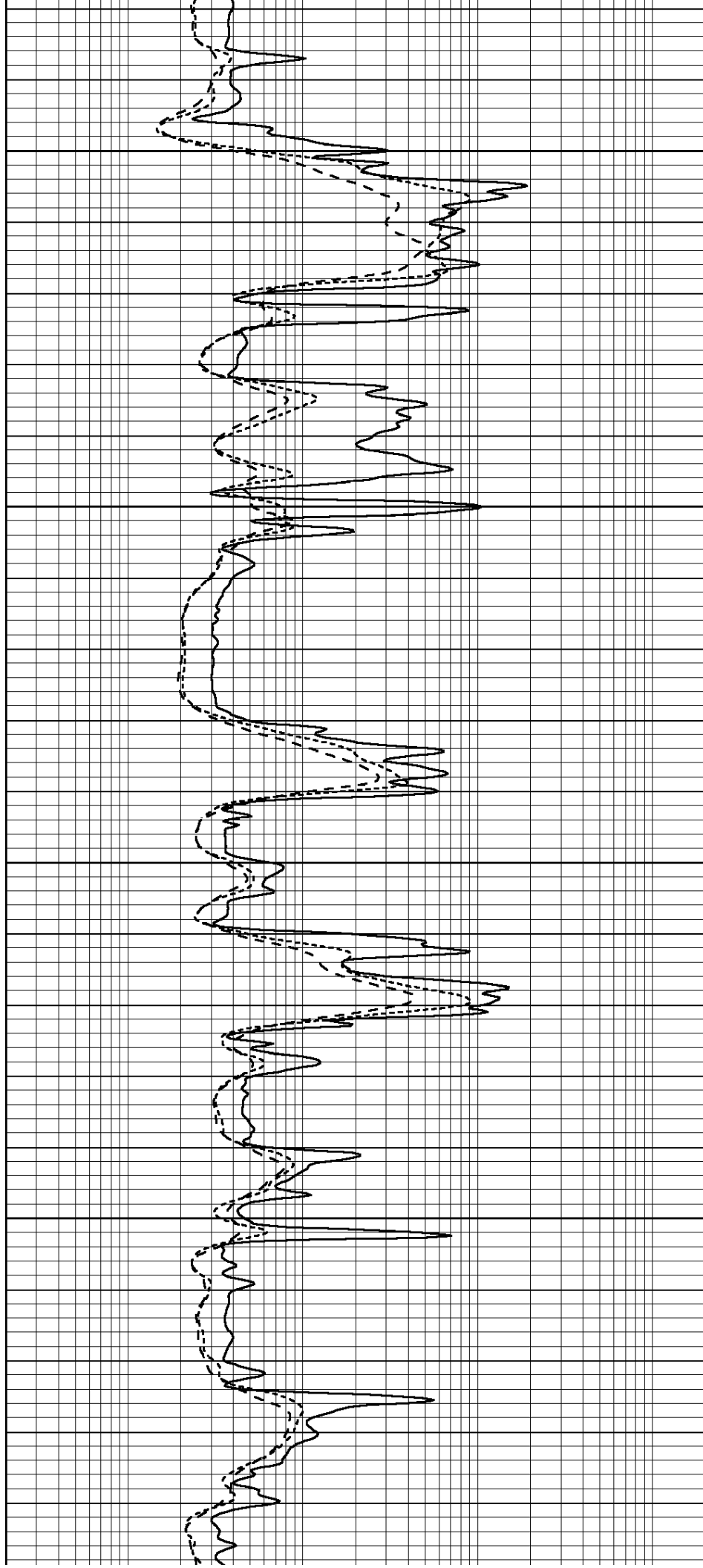


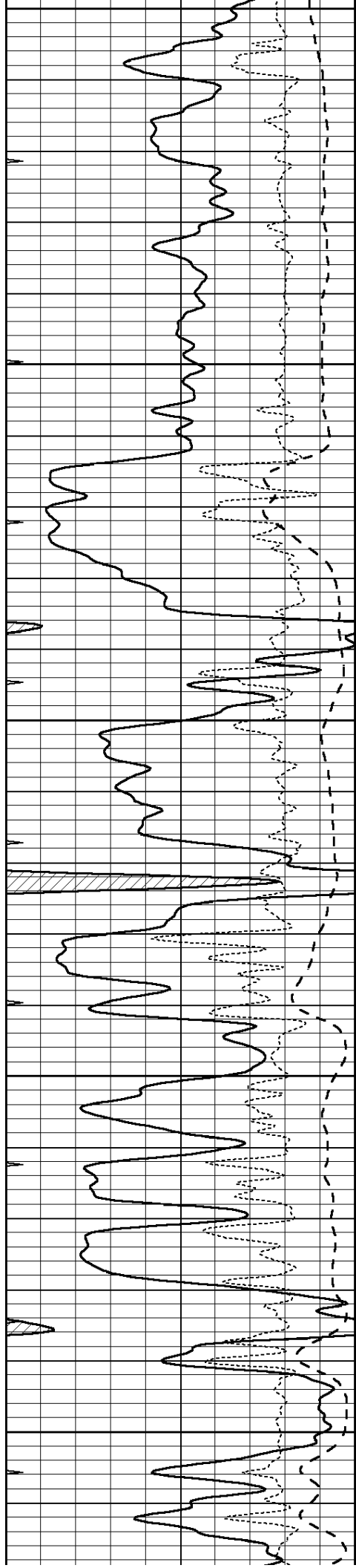
4000

4050

4100

4150





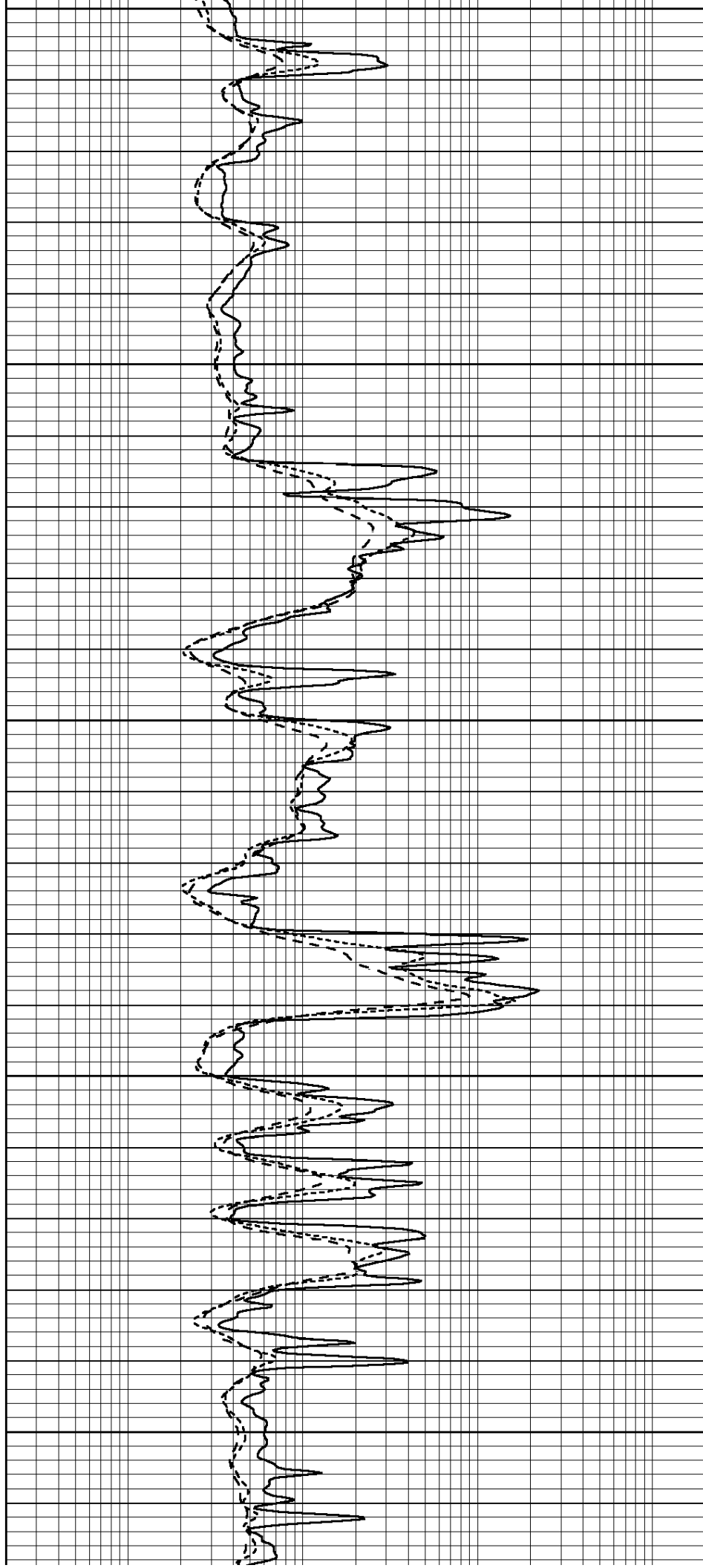
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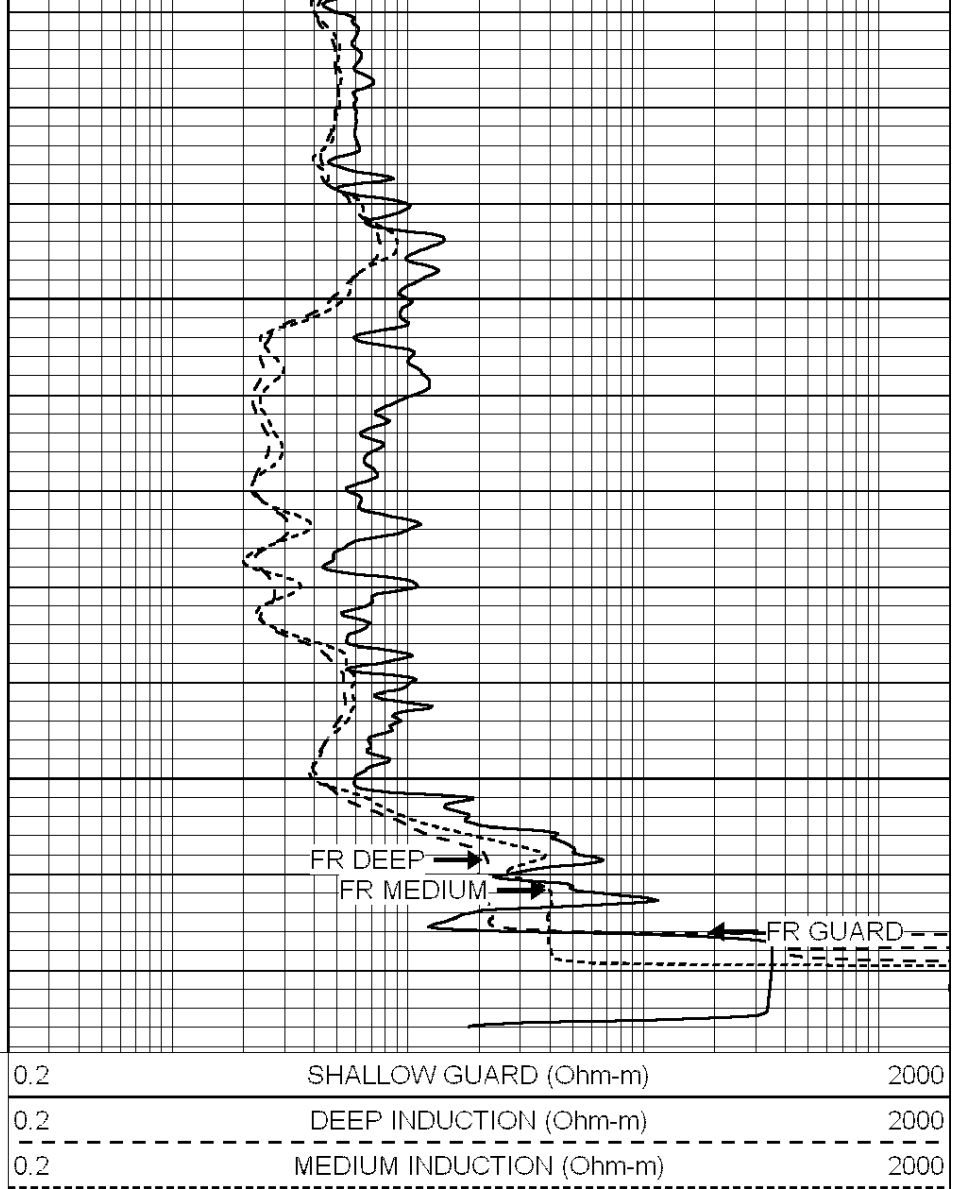
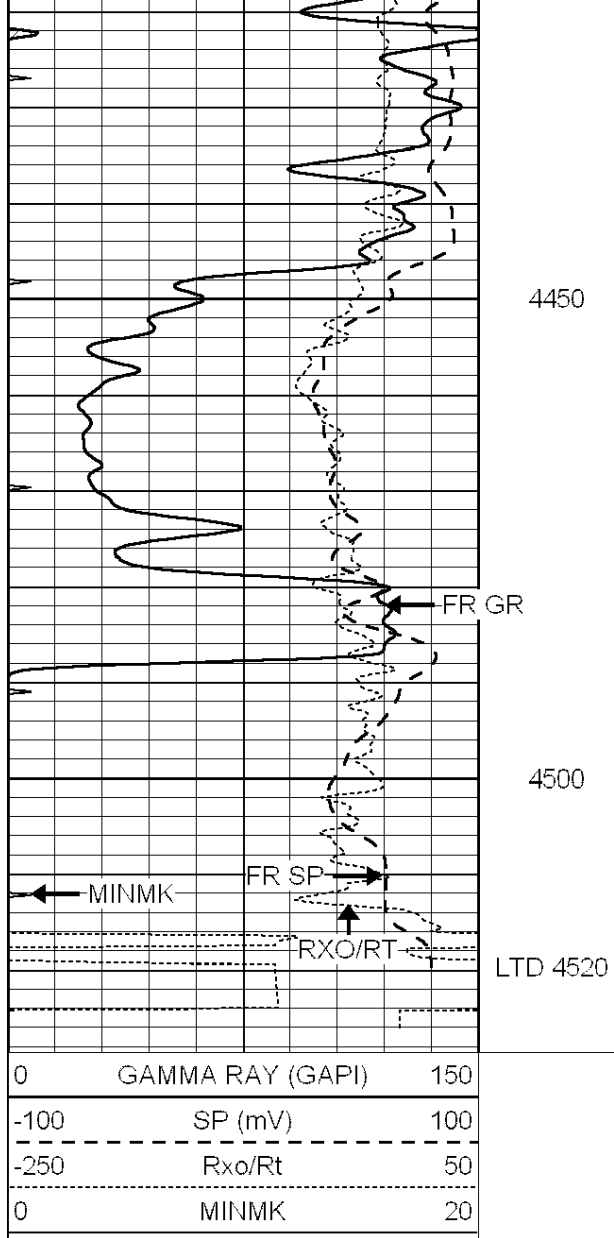
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4300

4350

4400

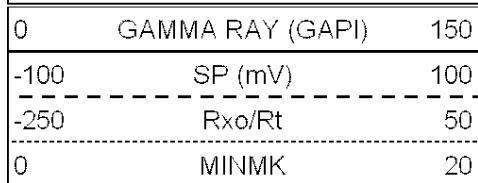




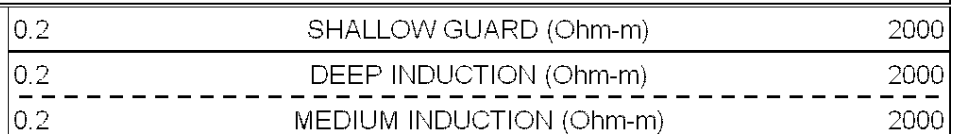
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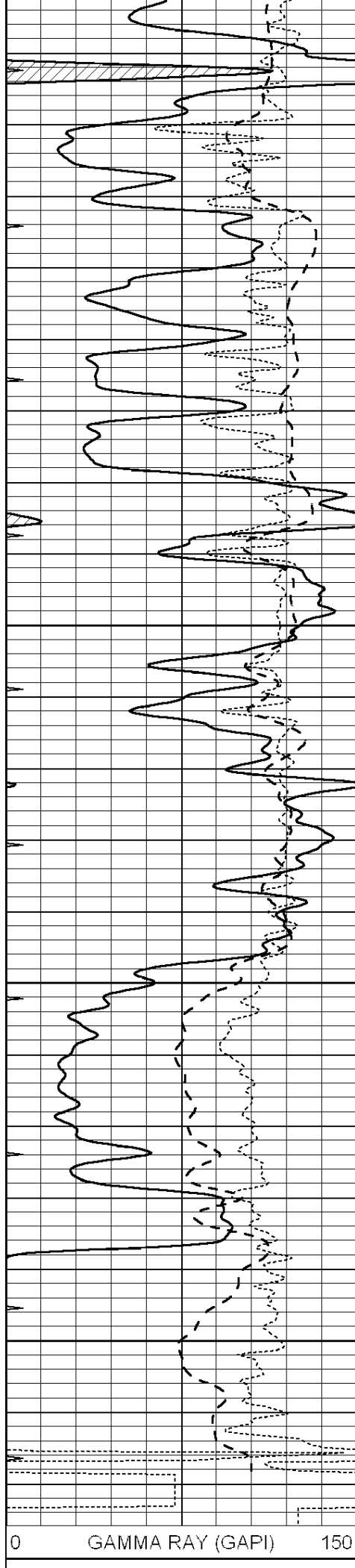
REPEAT SECTION

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Dataset Pathname: pass2.4
Presentation Format: _dil
Dataset Creation: Mon Nov 17 12:02:28 2014 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240



4300





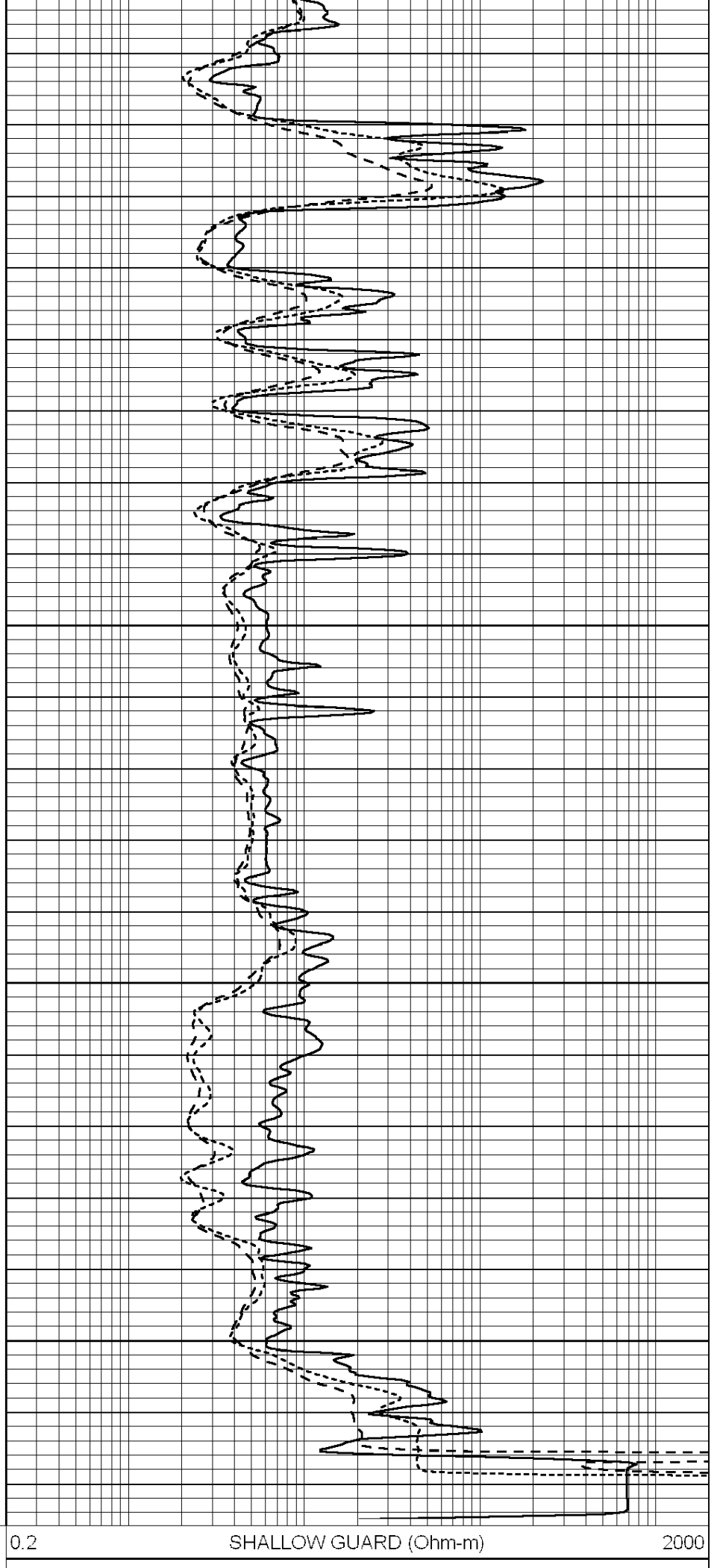
4350

4400

4450

4500

0 GAMMA RAY (GAPI) 150



0.2 SHALLOW GUARD (Ohm-m) 2000

-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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

Calibration Report

Database File: 25914pe.db
Dataset Pathname: pass3.14
Dataset Creation: Mon Nov 17 13:11:01 2014

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
Surface Cal Performed: Mon Nov 17 10:06:38 2014
Downhole Cal Performed: Mon Jul 28 12:02:56 2008
After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	670.000	-20.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	670.000	-32.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report

Serial: 003N Model: PRB

Master Calibration

Performed Tue Sep 08 14:14:44 2009

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2042.6	12312.8	4225.8	13758.4	cps
Window 2	1855.8	10134.7	3624.2	11113.1	cps
Window 3	1639.4	6760.2	2716.3	7260.3	cps
Window 4	466.4	469.2	466.1	476.5	cps
Long Space	0.0	8278.9	1768.4	9257.4	cps
Short Space	2.2	2377.3	1544.1	2574.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
Rho		0.0000	2.5700	1.5500	

PC		0.0000	2.9700	1.0000
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept
				: 0.549
				: -18.8
Before Survey Verification		Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0 cps
Window 2	0.0	0.0	0.0	0.0 cps
Window 3	0.0	0.0	0.0	0.0 cps
Window 4	0.0	0.0	0.0	0.0 cps
Long Space	0.0	0.0	0.0	0.0 cps
Short Space	0.0	0.0	0.0	0.0 cps
Measured Rho		0.0000	0.0000	0.0000 g/cc
Measured Correction		0.0000	0.0000	0.0000 g/cc
Measured Pe			0.0000	0.0000
After Survey Verification		Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0 cps
Window 2	0.0	0.0	0.0	0.0 cps
Window 3	0.0	0.0	0.0	0.0 cps
Window 4	0.0	0.0	0.0	0.0 cps
Long Space	0.0	0.0	0.0	0.0 cps
Short Space	0.0	0.0	0.0	0.0 cps
Measured Rho		0.0000	0.0000	0.0000 g/cc
Measured Correction		0.0000	0.0000	0.0000 g/cc
Measured Pe			0.0000	0.0000
Compensated Neutron Calibration Report				
Serial Number:		070808		
Tool Model:		Probe		
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:	070558			
Tool Model:	OPEN_GR			
Performed:	Mon Nov 17 10:01:40 2014			
Calibrator Value:	1.0	GAPI		
Background Reading:	0.0	cps		
Calibrator Reading:	1.0	cps		
Sensitivity:	0.2800	GAPI/cps		