



**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company	CORAL PRODUCTION CORPORATION			
Well	BENTZ #33-1			
Field	WILDCAT			
County	ROOKS	State	KANSAS	
Location:	API # : 15-163-24244-00-00		Other Services CNL/CDL MEL	
	1980 FSL & 2030 FEL E2 - W2 - NW - SE			
Permanent Datum	SEC 33	TWP 6S	RGE 19W	Elevation K.B. 2067 D.F. 2065 G.L. 2062
Log Measured From	GROUND LEVEL			
Drilling Measured From	KELLY BUSHING 5' A.G.L. KELLY BUSHING			
Date	8/17/14			
Run Number	ONE			
Depth Driller	3589			
Depth Logger	3589			
Bottom Logged Interval	3587			
Top Log Interval	00			
Casing Driller	8 5/8 @ 217'			
Casing Logger	218'			
Bit Size	7.875			
Type Fluid in Hole	CHEMICAL MUD			
Density / Viscosity	9.0/45	CHLORIDES 20,000 PPM		
pH / Fluid Loss	8.5/18			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	1.00 @ 98F			
Rmf @ Meas. Temp	0.75 @ 98F			
Rmc @ Meas. Temp	1.20 @ 98F			
Source of Rmf / Rmc	MEASURED			
Rm @ BHT	0.88 @ 112F			
Time Circulation Stopped	2 HOURS			
Time Logger on Bottom				
Maximum Recorded Temperature	112F			
Equipment Number	3802			
Location	HAYS, KS.			
Recorded By	IAN MABB			
Witnessed By	TIM LAUER			

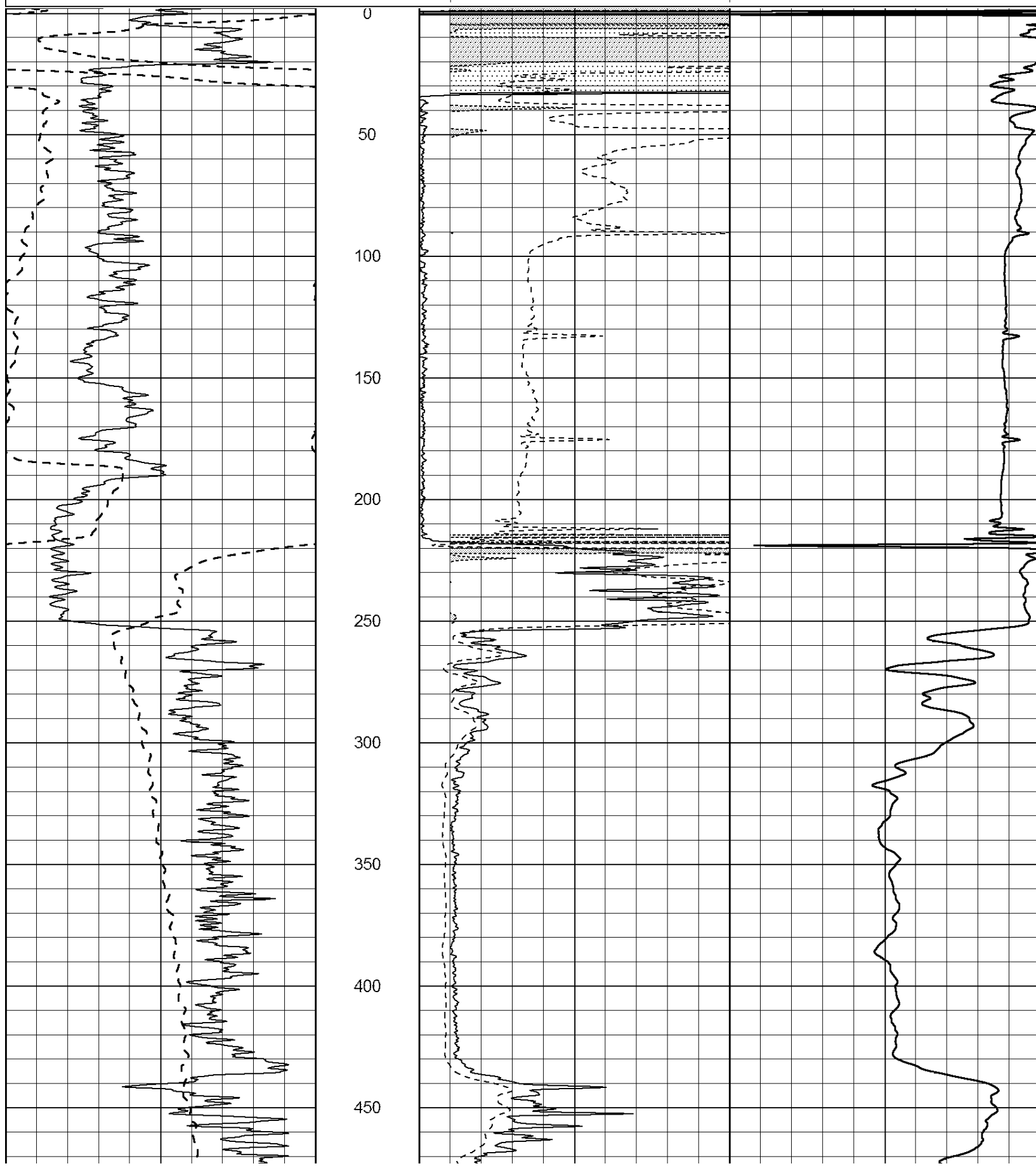
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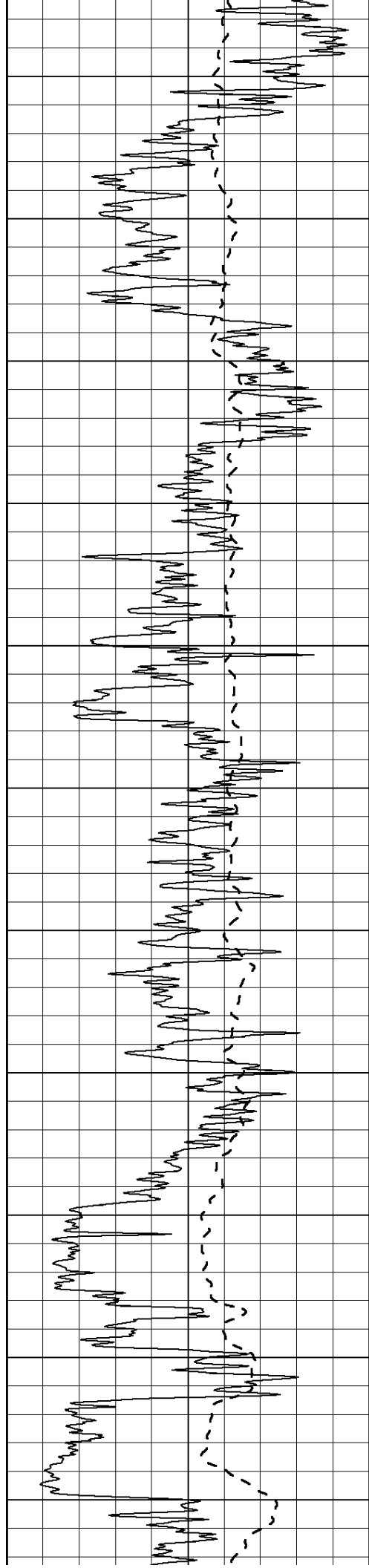
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

NABORS COMPLETION & PRODUCTION SERVICES CO.
785 (628 - 6395)
THANK YOU FOR YOUR BUSINESS
DIRECTIONS : WEBSTER LAKE & HWY 24 - NORTH 4 MILES TO G RD - WEST 1 1/2 - NORTH INTO

0	Gamma Ray (GAPI)	150	0	RLL3 (Ohm-m)	50	
			0	Deep Induction (Ohm-m)	50	
			1000		CILD (mmho/m)	0
			50	RILD X10 (Ohm-m)	500	
			50	RLL3 X10 (Ohm-m)	500	





500

550

600

650

700

750

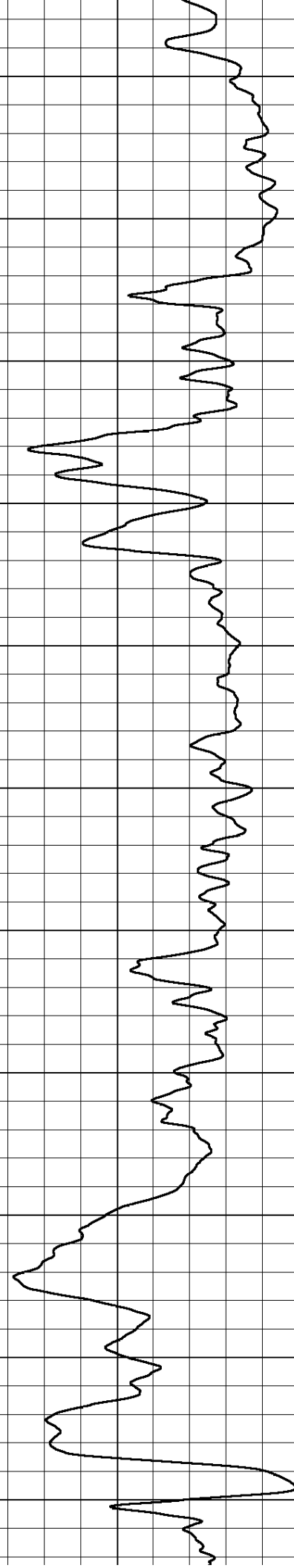
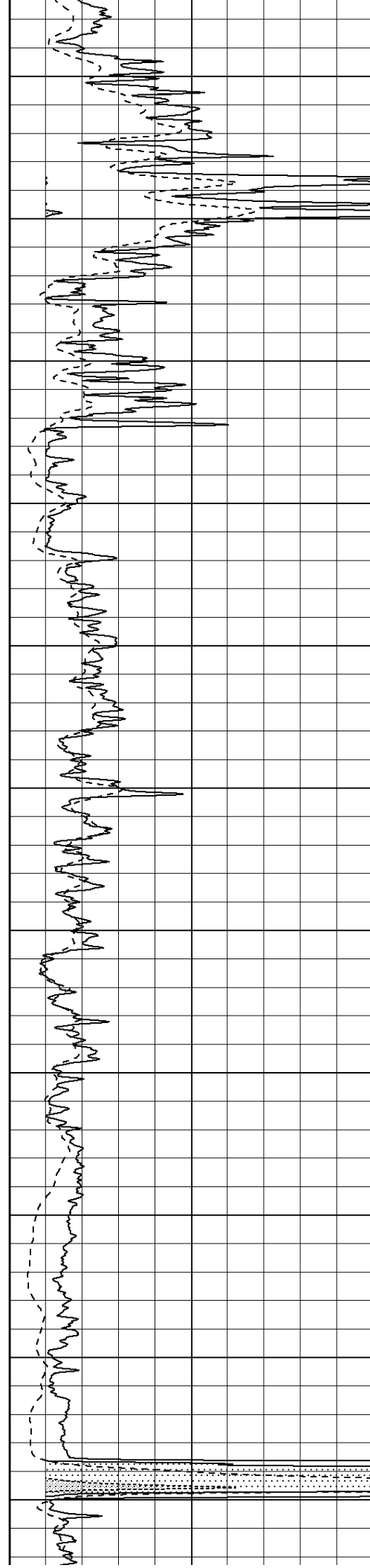
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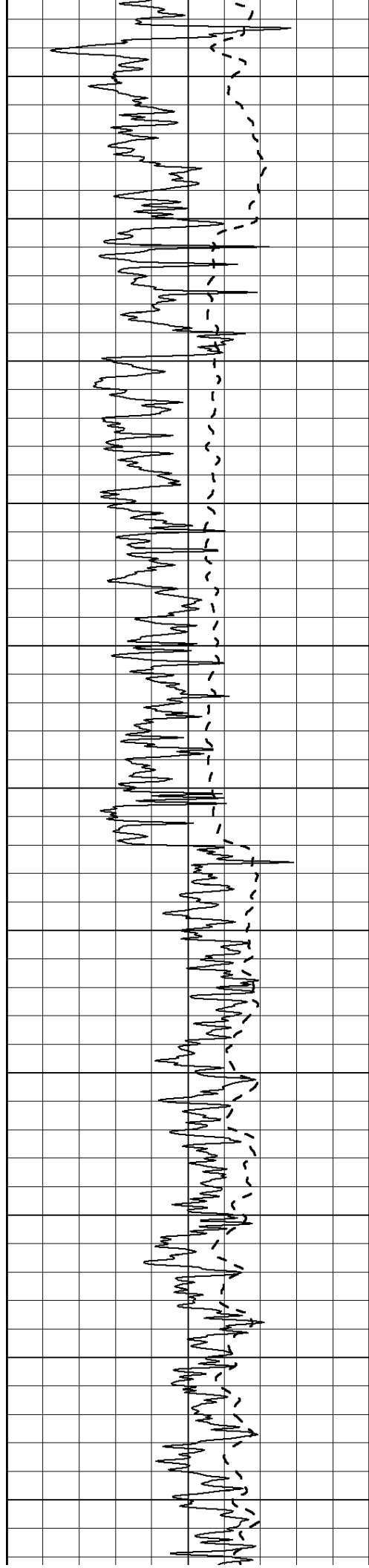
850

900

950

1000





1050

1100

1150

1200

1250

1300

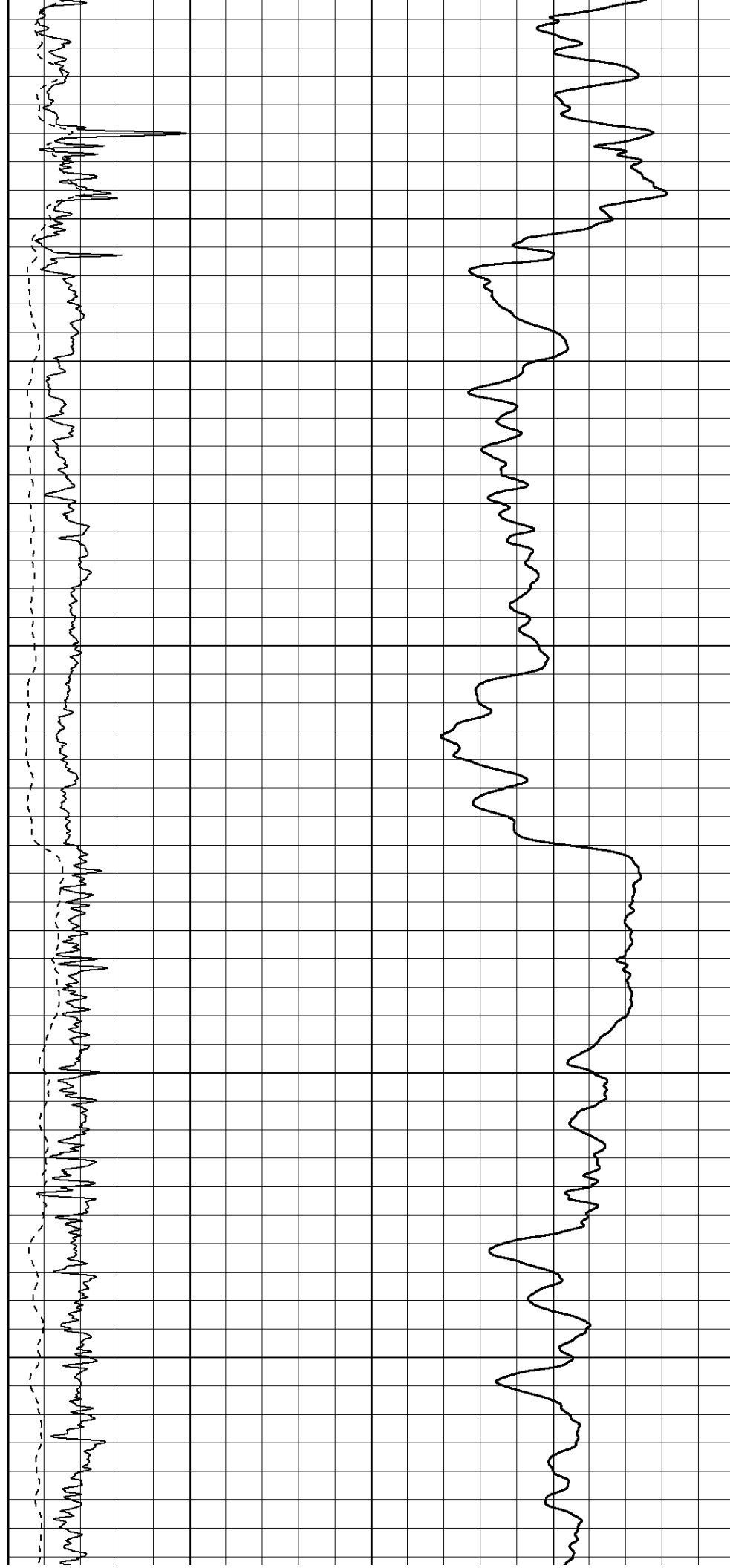
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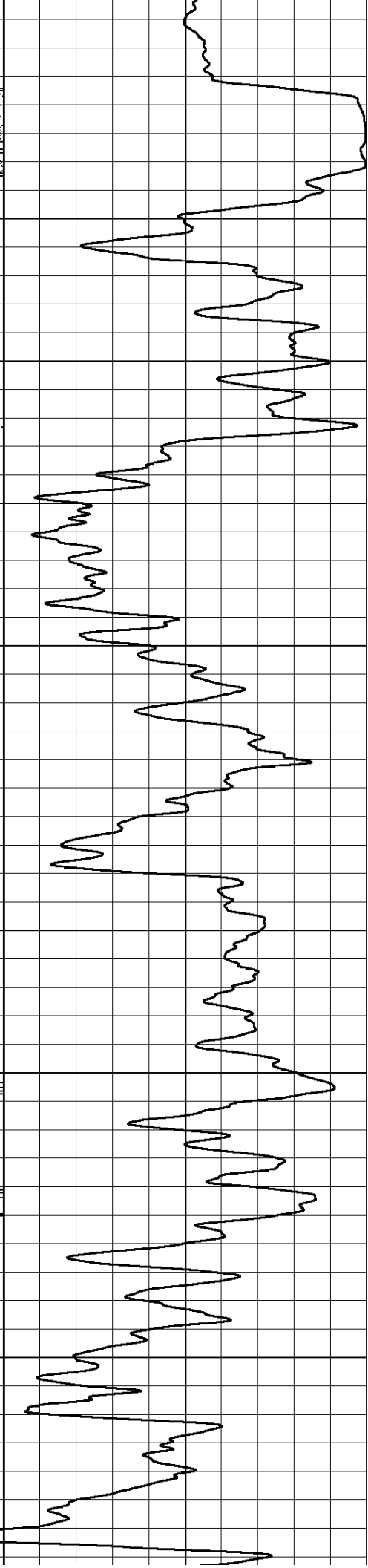
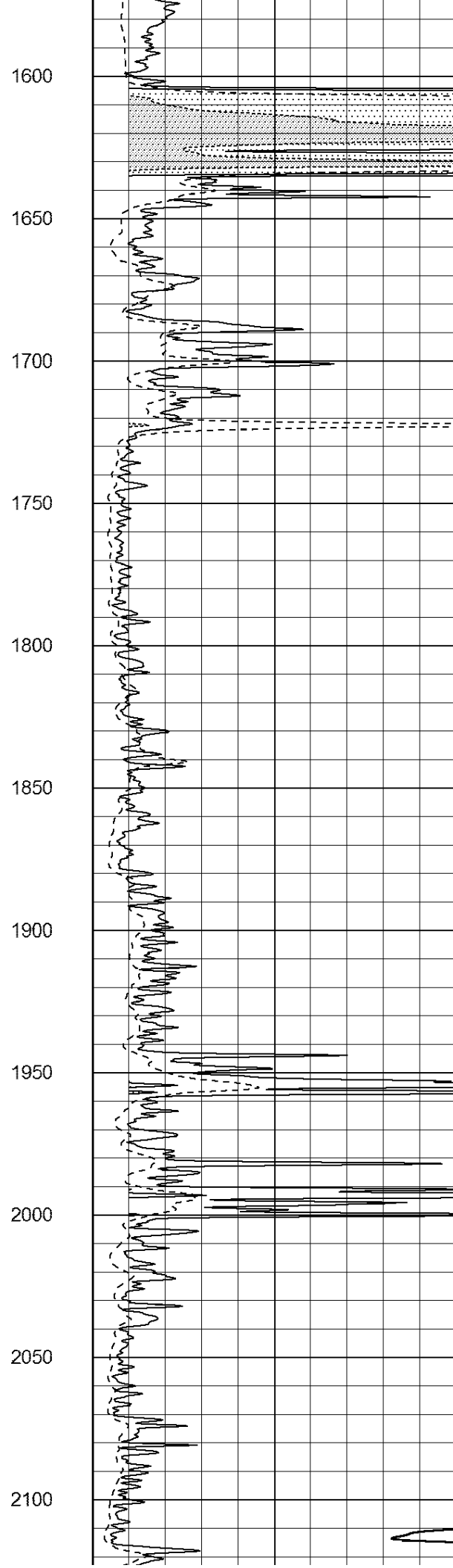
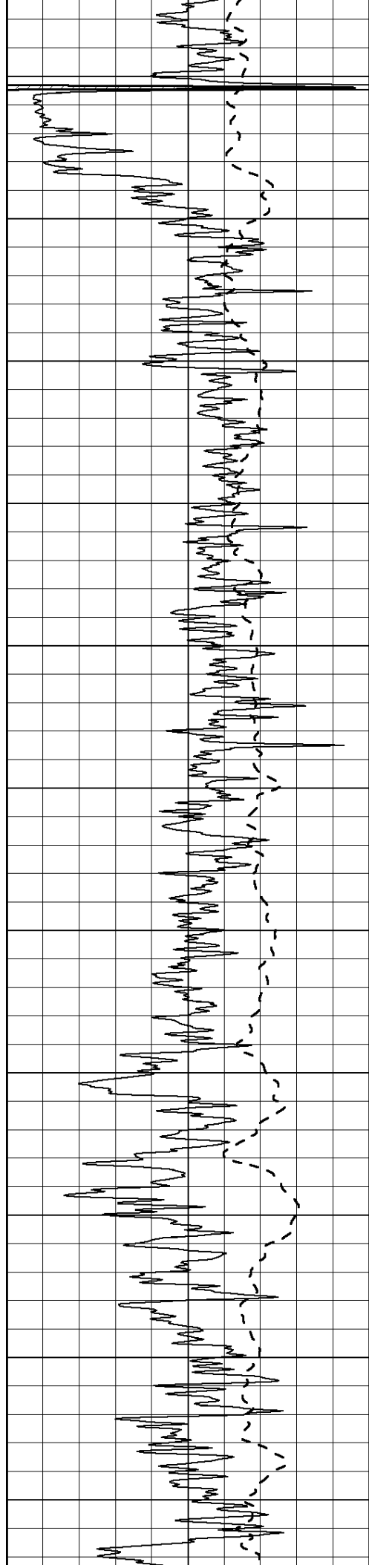
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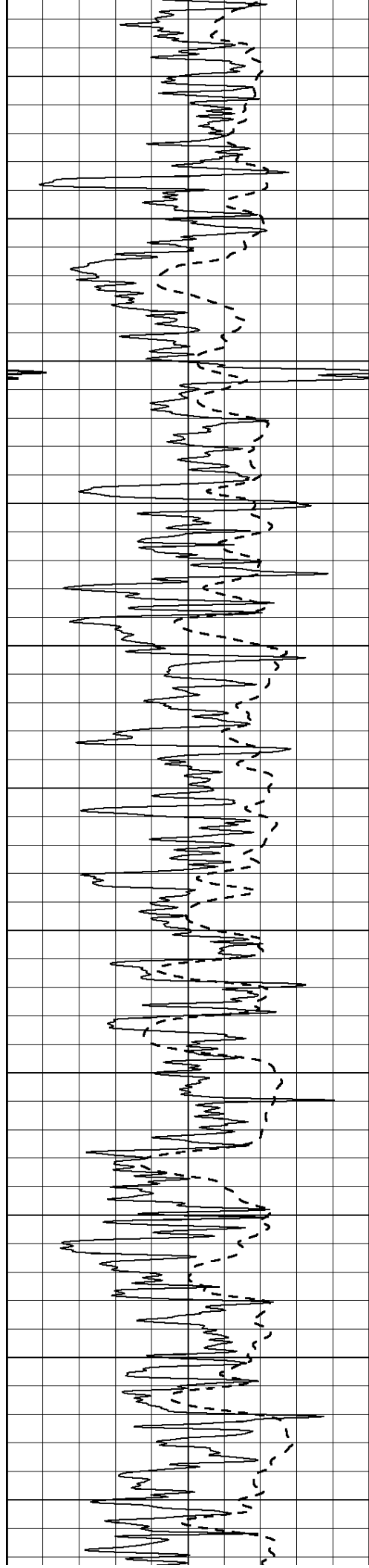
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1500

1550







2150

2200

2250

2300

2350

2400

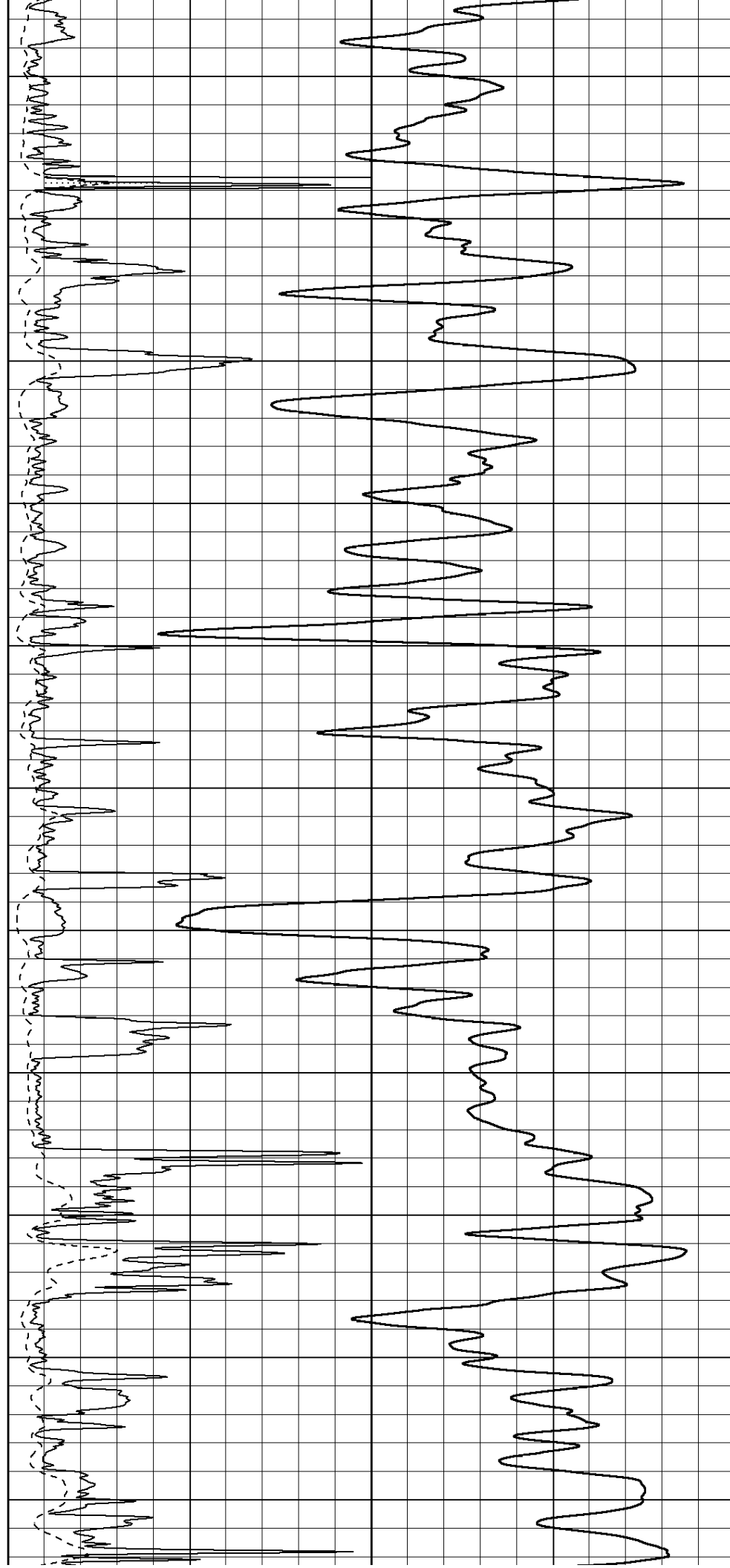
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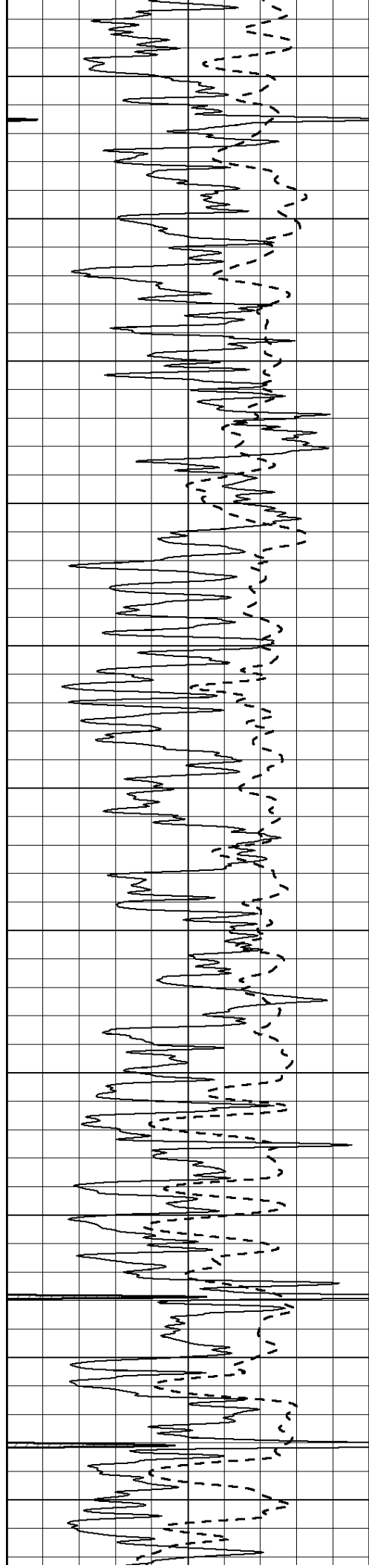
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2550

2600

2650





2700

2750

2800

2850

2900

2950

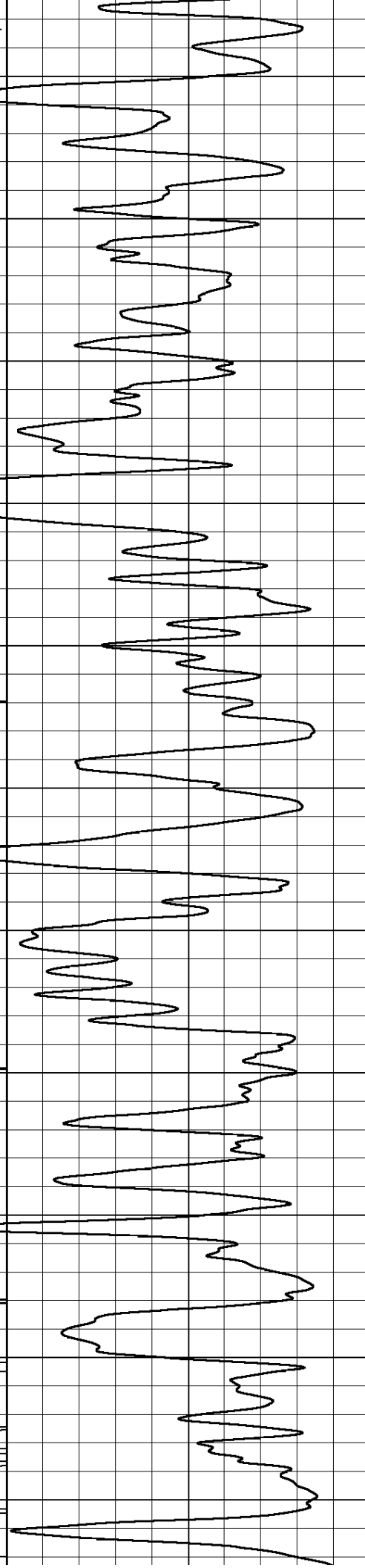
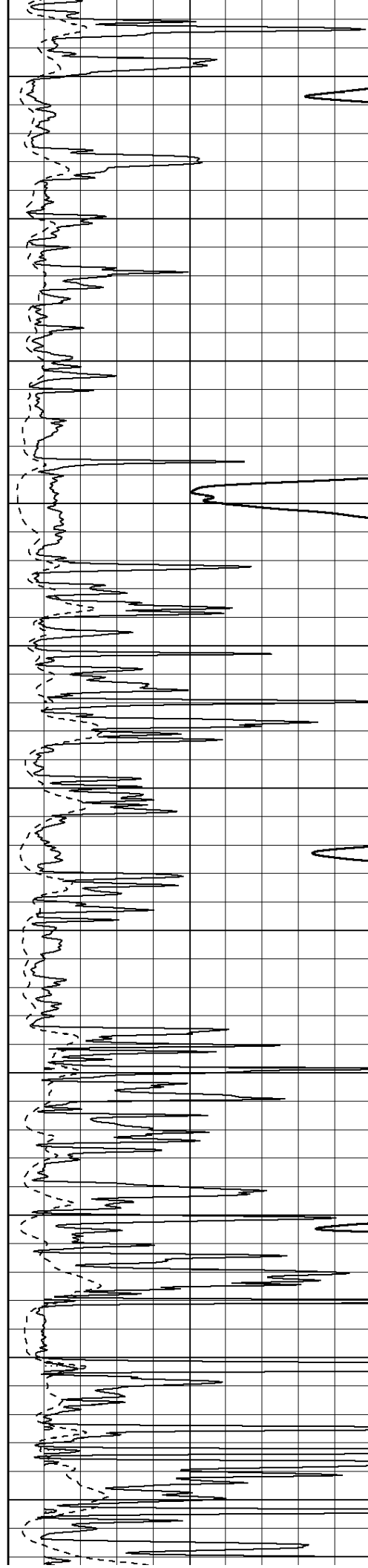
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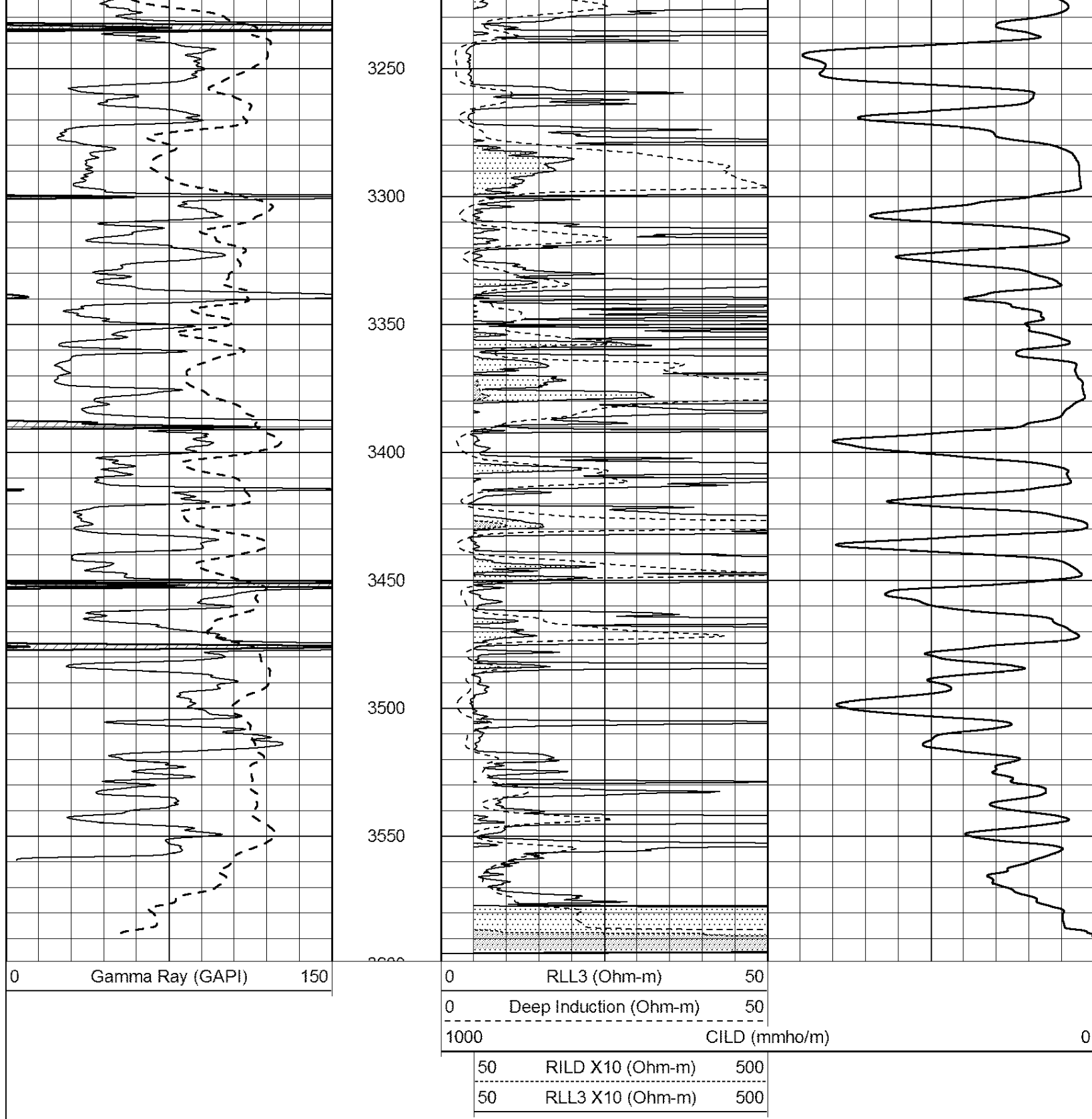
3050

3100

3150

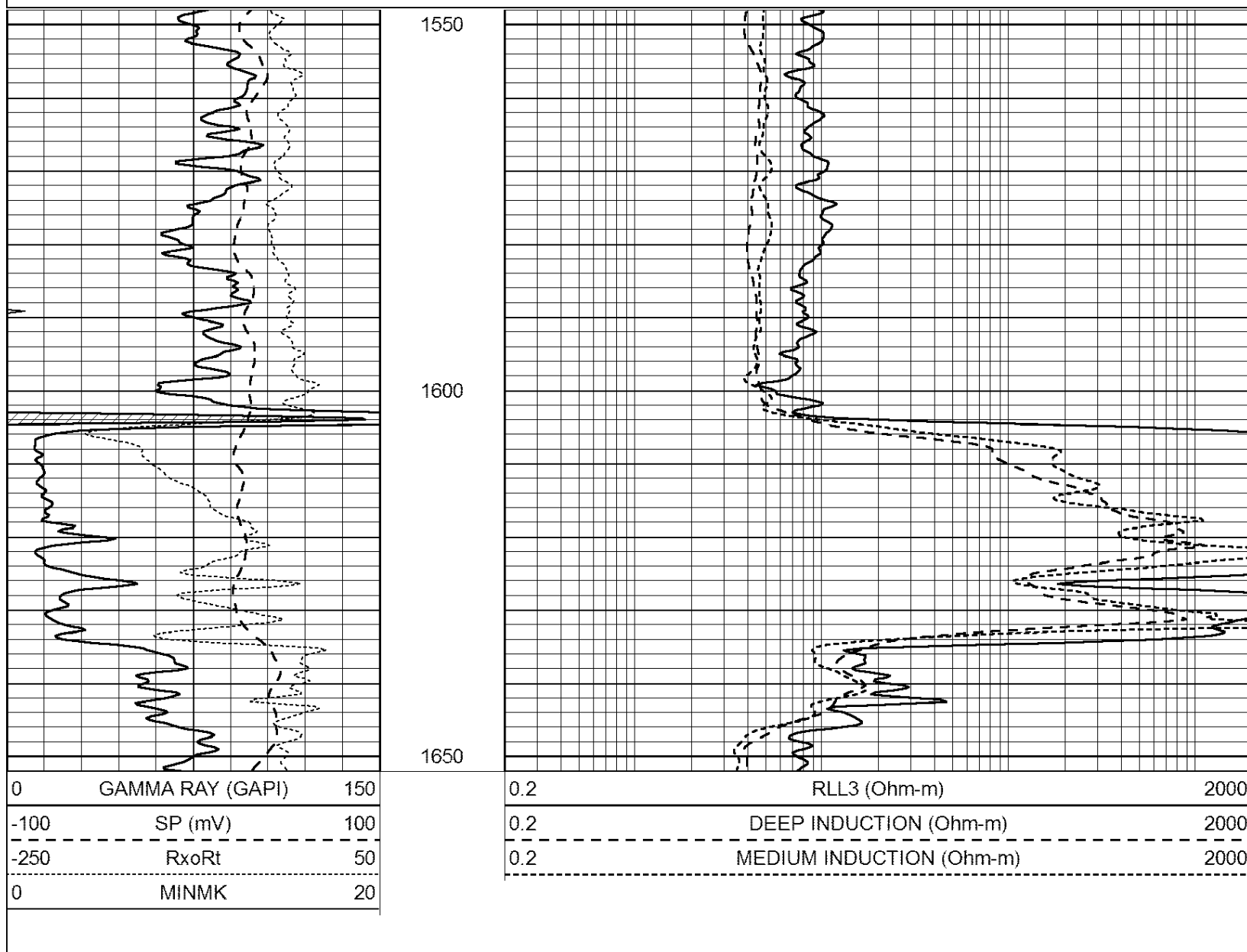
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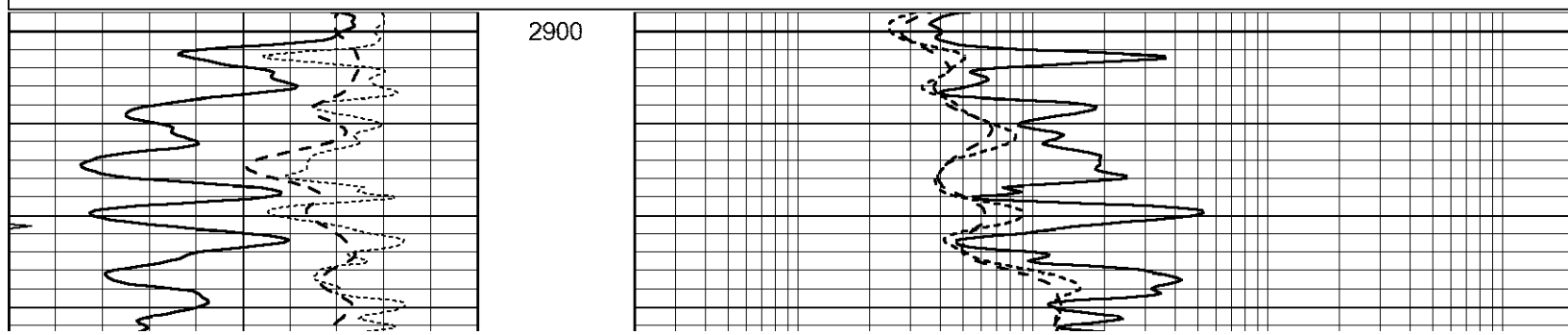
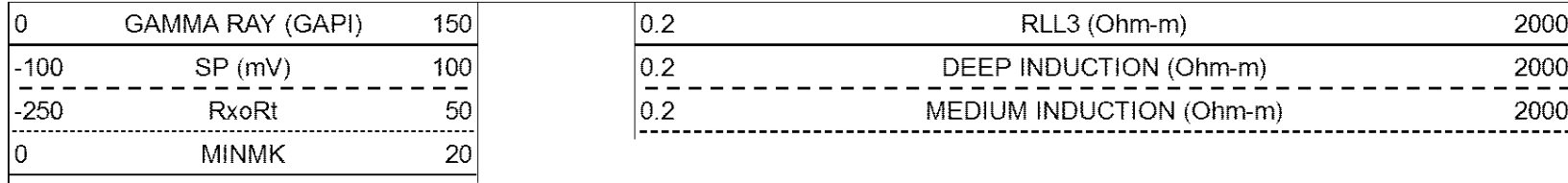


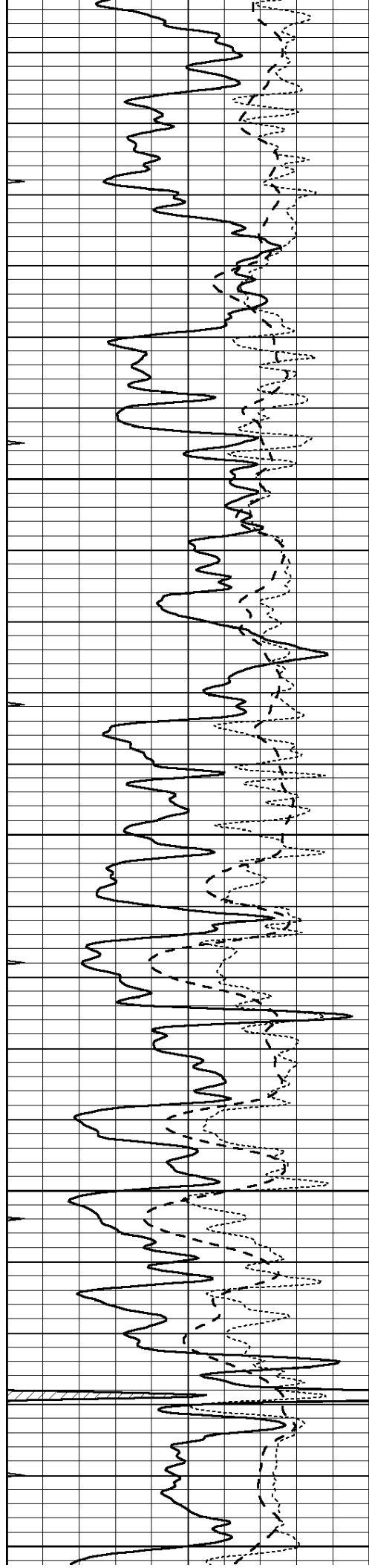
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 Dataset Creation: Sun Aug 17 21:18:08 2014 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	RLL3 (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	RxoRt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



Database File: 25804ddn.db
Dataset Pathname: pass3.2
Presentation Format: _dil
Dataset Creation: Sun Aug 17 20:45:18 2014 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240





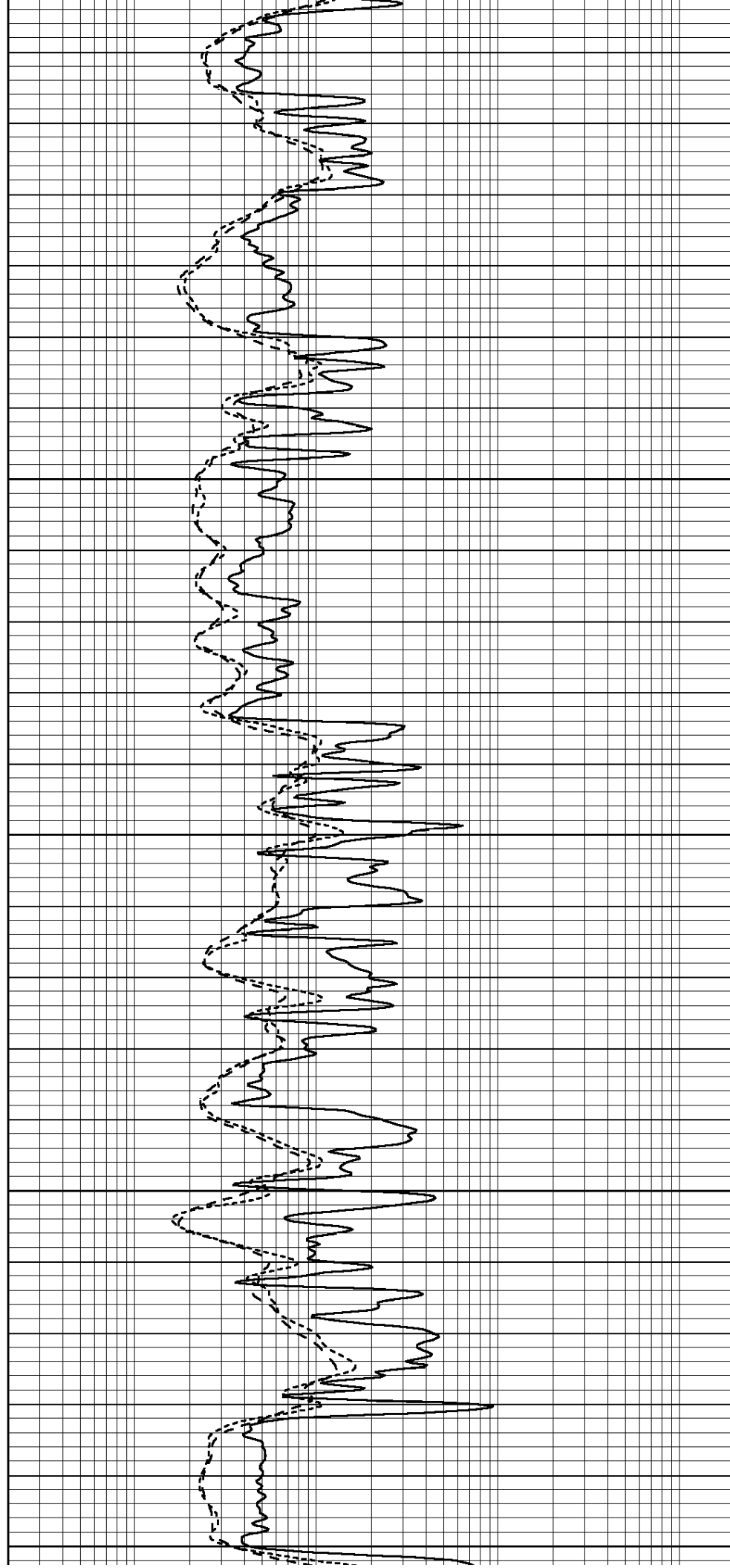
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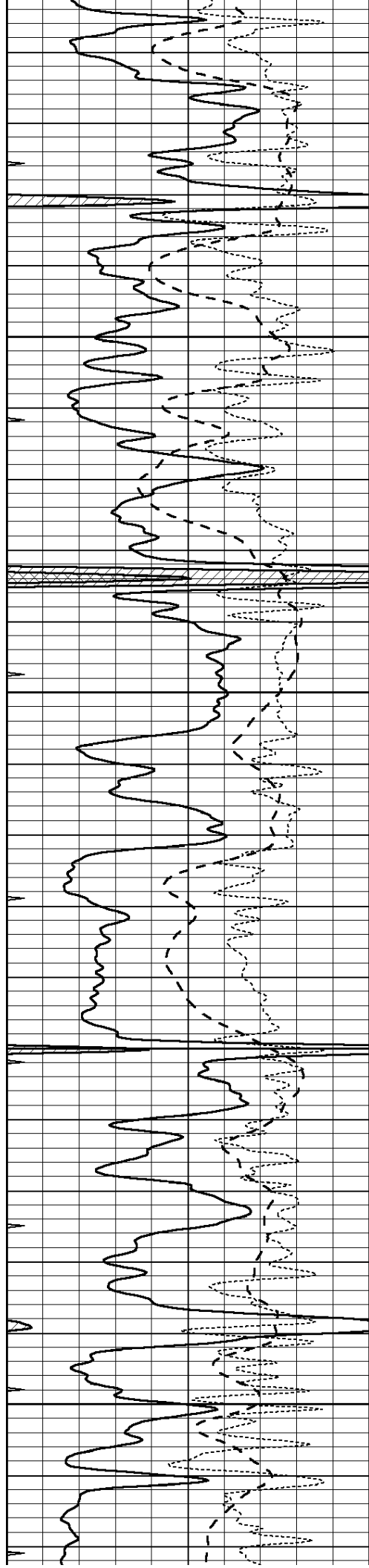
3000

3050

3100

3150



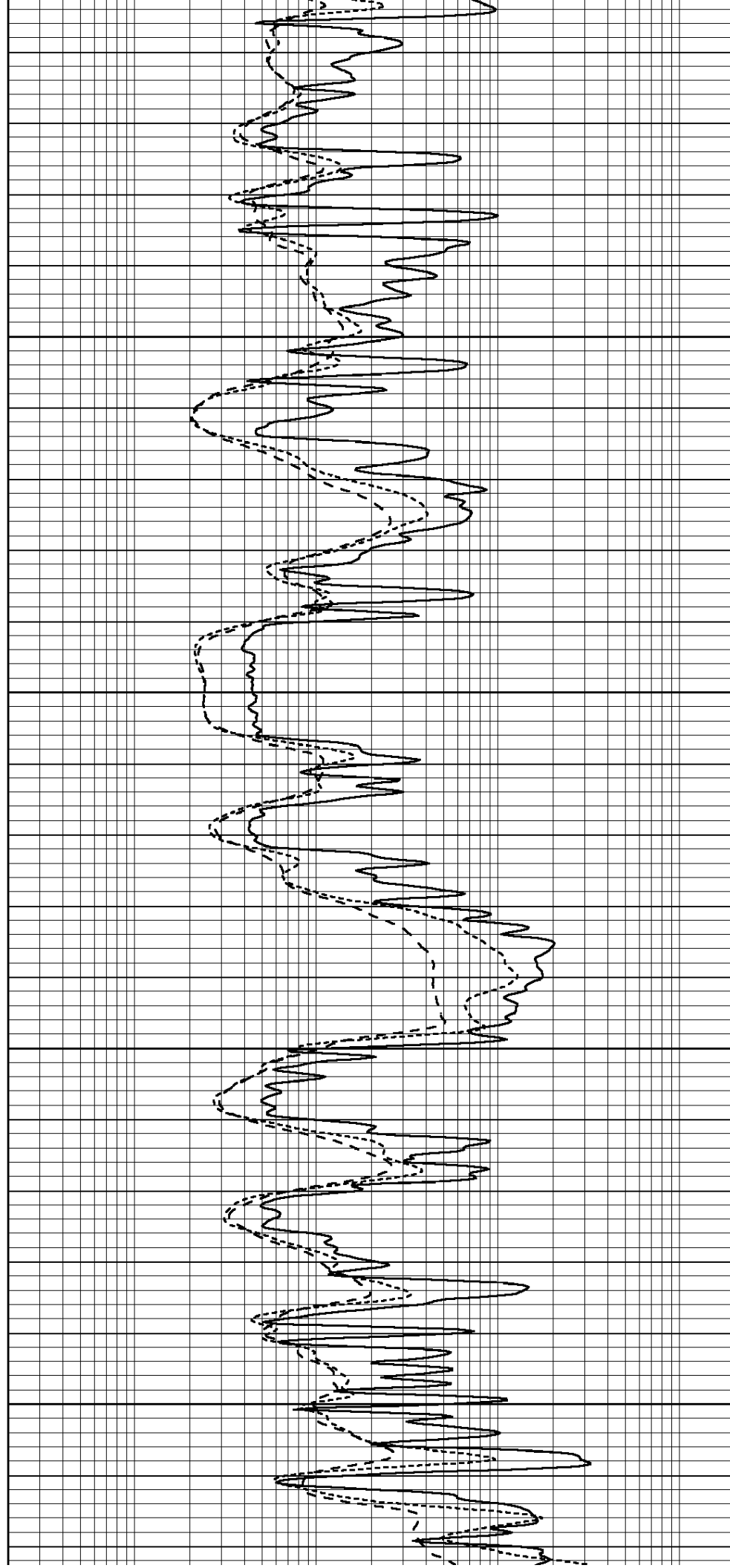


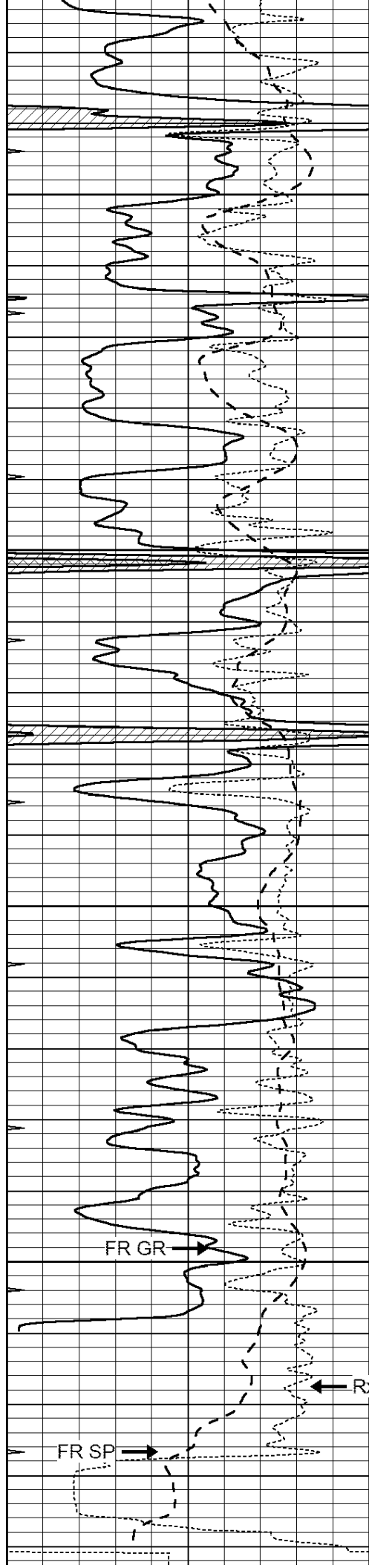
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3250

3300

3350





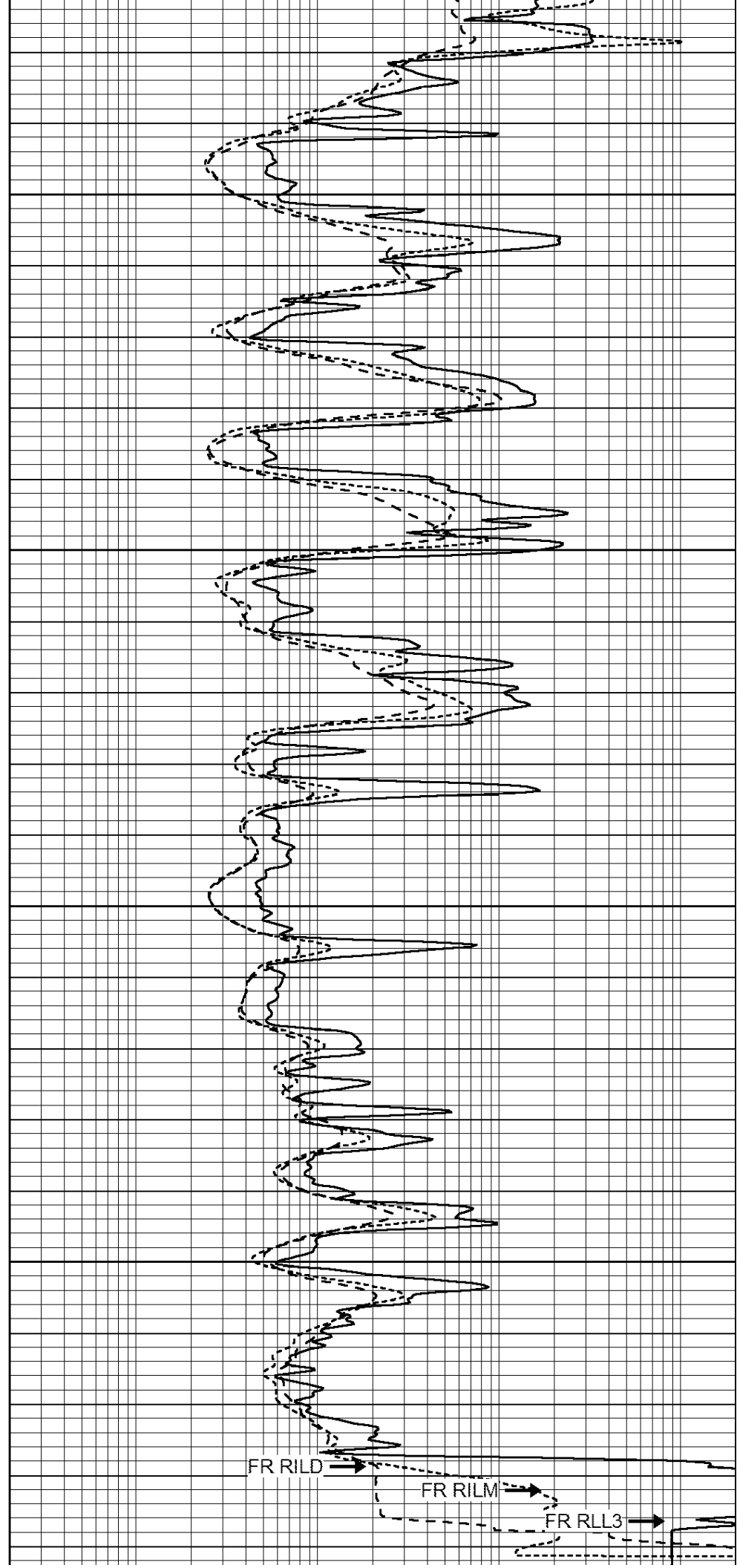
3400

3450

3500

3550

LTD 3587



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



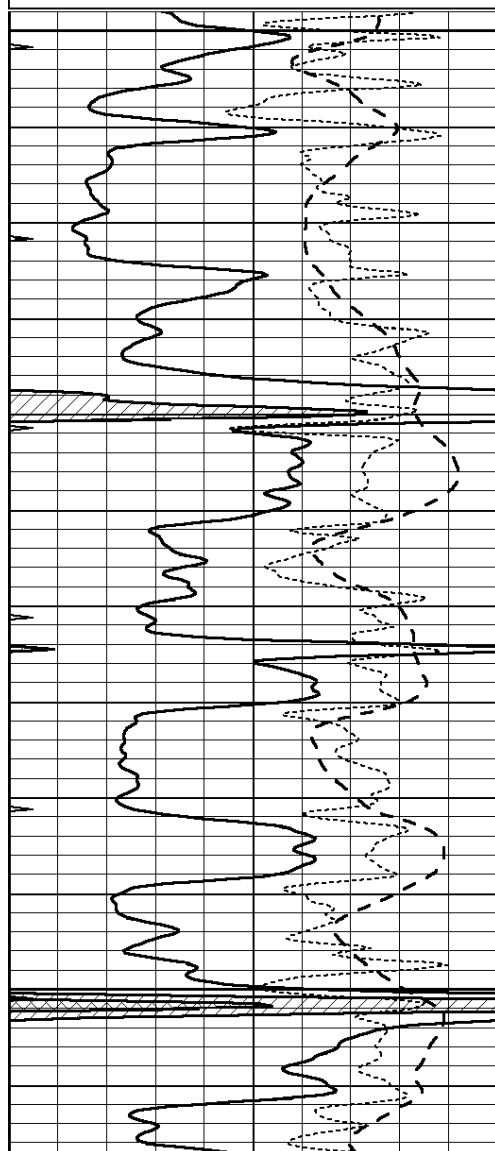
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SERVICES CO.**

REPEAT SECTION

Database File: 25804ddn.db
Dataset Pathname: pass2.3
Presentation Format: _dil
Dataset Creation: Sun Aug 17 20:30:39 2014 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

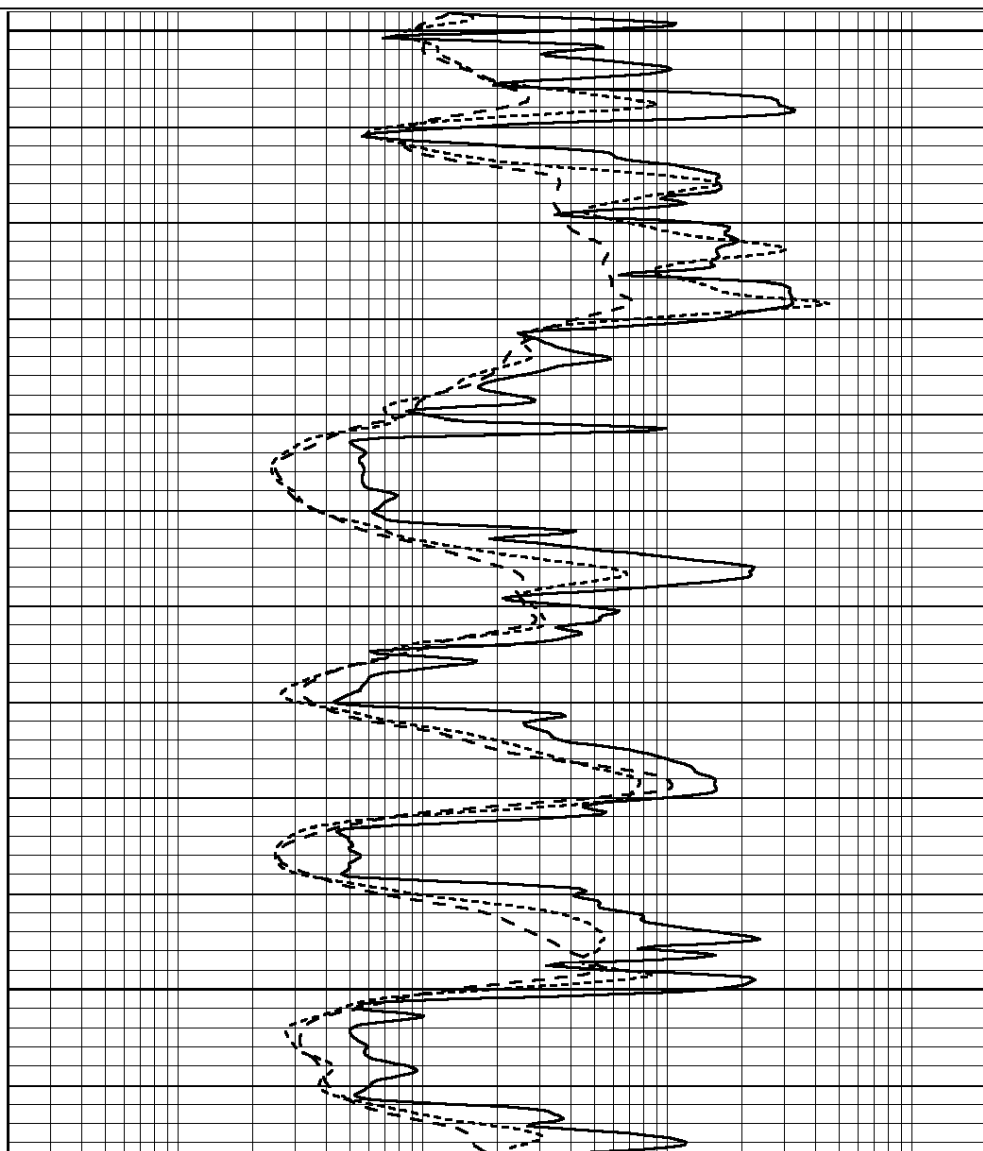
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

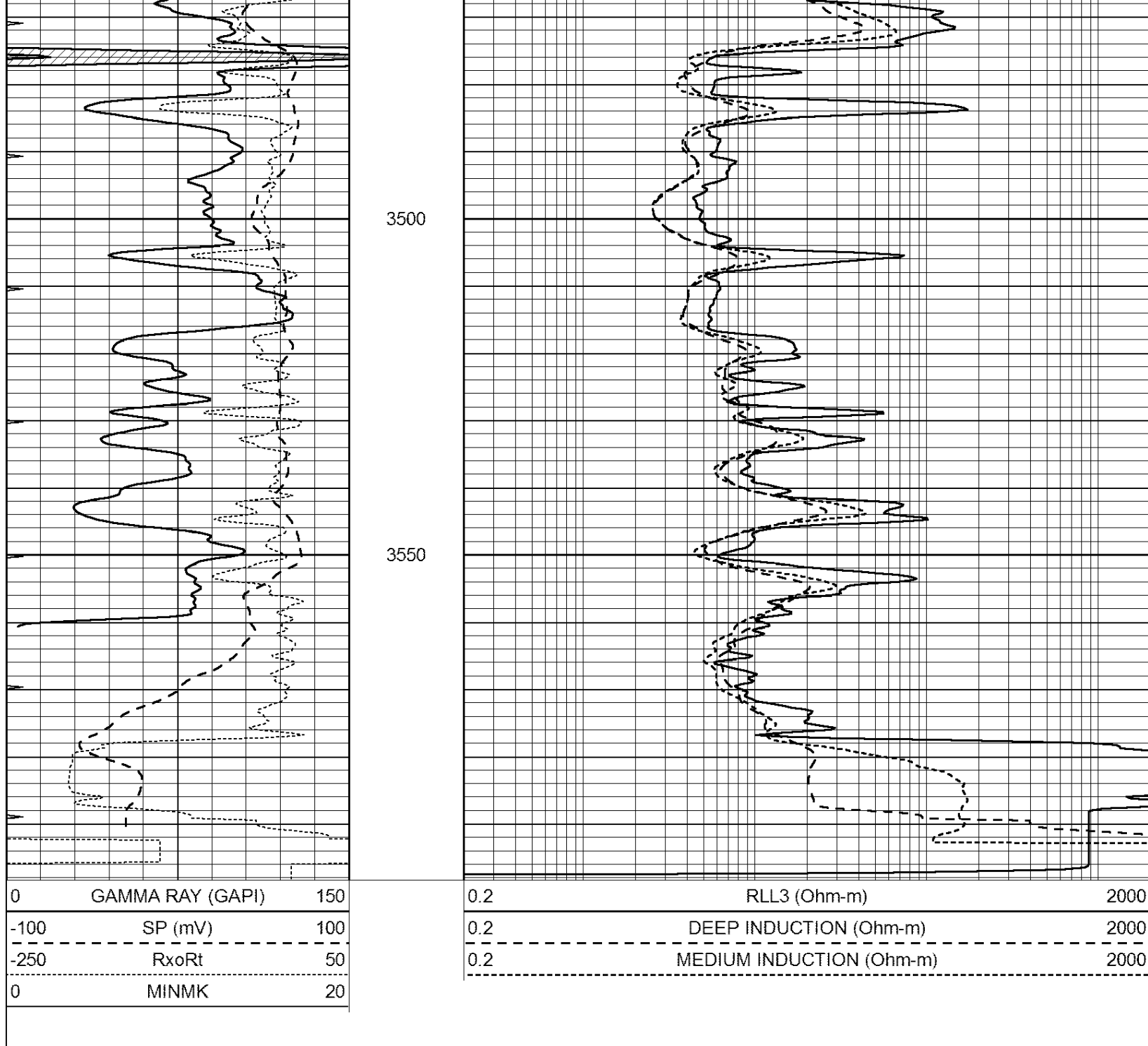


3350

3400

3450





Calibration Report

Database File: 25804ddn.db
Dataset Pathname: pass3.3
Dataset Creation: Sun Aug 17 21:18:08 2014 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	DIL3-GEAR
Surface Cal Performed:	Sat May 17 16:06:41 2014
Downhole Cal Performed:	Fri Mar 21 03:34:00 2003
After Survey Verification Performed:	Sun May 13 01:08:02 2007

Surface Calibration

Readings		References		Results	
Loop:	Air	Loop	Air	m	b

Deep	0.011	0.656	V	0.000	400.000	mmho/m	550.000	8.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	670.000	-5.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	560.000	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	540.000	-4.000
Downhole Calibration								
	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	1.000	mmho/m	0.000	1.000	mmho/m	1.000	0.000
Medium	0.000	1.000	mmho/m	0.000	1.000	mmho/m	1.000	0.000
Shallow	2.503	0.050	V	500.000	2.000	Ohm-m	300.000	-2.500
After Survey Verification								
	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	1.000	mmho/m	0.000	1.000	mmho/m	1.000	0.000
Medium	0.000	1.000	mmho/m	0.000	1.000	mmho/m	1.000	0.000
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000
Compensated Density Calibration Report								
	Serial-Model:				GEAR2-GEARHART			
	Source / Verifier:				147 / 147			
	Master Calibration Performed:				Sun Jul 20 17:10:56 2014			
	Before Survey Verification Performed:							
	After Survey Verification Performed:							
Master Calibration								
	Density			Far Detector		Near Detector		
Magnesium	1.710	g/cc		1042.05	508.01	cps		
Aluminum	2.590	g/cc		237.55	354.09	cps		
	Spine Angle = 76.28			Density/Spine Ratio = 0.578				
	Size			Reading				
Small Ring	8.40	in		3.72	V			
Large Ring	14.00	in		5.31	V			
Before Survey Verification								
	Target			Measured				
		g/cc				g/cc		
		g/cc				g/cc		
		g/cc				g/cc		
After Survey Verification								
	Target			Measured				
		g/cc				g/cc		
		g/cc				g/cc		
		g/cc				g/cc		
Compensated Neutron Calibration Report								
	Serial Number:				080620			
	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:	46001		
Tool Model:	Probe1		
Performed:	Sat Aug 02 01:56:52 2014		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.2600	GAPI/cps	