



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

DUAL INDUCTION LOG

Company		GORE OIL COMPANY	
Well		CARMICHAEL #2	
Field		WILDCAT	
County		ROOKS	
State		KANSAS	
Location:		API # : 15-163-24139-0000 1400' FNL & 2970' FEL	
SEC 22 TWP 9S RGE 18W		Other Services CDL/CNL MEL/SON	
Permanent Datum Log Measured From Drilling Measured From		GROUND LEVEL Elevation KELLY BUSHING 8' A.G.L. KELLY BUSHING	
Date		10/23/13	
Run Number		ONE	
Depth Driller		3800	
Depth Logger		3801	
Bottom Logged Interval		3799	
Top Log Interval		00	
Casing Driller		8 5/8" @ 265	
Casing Logger		263	
Bit Size		7 7/8	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.1/49	
pH / Fluid Loss		9.5/8.8	
Source of Sample		FLOWLINE	
Rim @ Meas. Temp		.85 @ 87F	
Rmf @ Meas. Temp		.63 @ 87F	
Rmc @ Meas. Temp		1.02 @ 87F	
Source of Rmf / Rmc		MEASURED	
Rim @ BHT		.64 @ 114F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom		114F	
Maximum Recorded Temperature		680	
Equipment Number		HAYS, KS.	
Location		JASON CAPPELLUCCI	
Recorded By		CHUCK SCHMALTZ	
Witnessed By			

<<< 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 NABORS COMPLETION & PRODUCTION SVCS. (785) 628-6395

DIRECTIONS:

PLAINVILLE, KS. - 1 1/2 WEST TO RD. 16 - 1 1/2 NORTH - EAST & NORTH INTO



NABORS

**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File:

010949ddn.db

Dataset Pathname:

pass3.3

Presentation Format:

_dil2

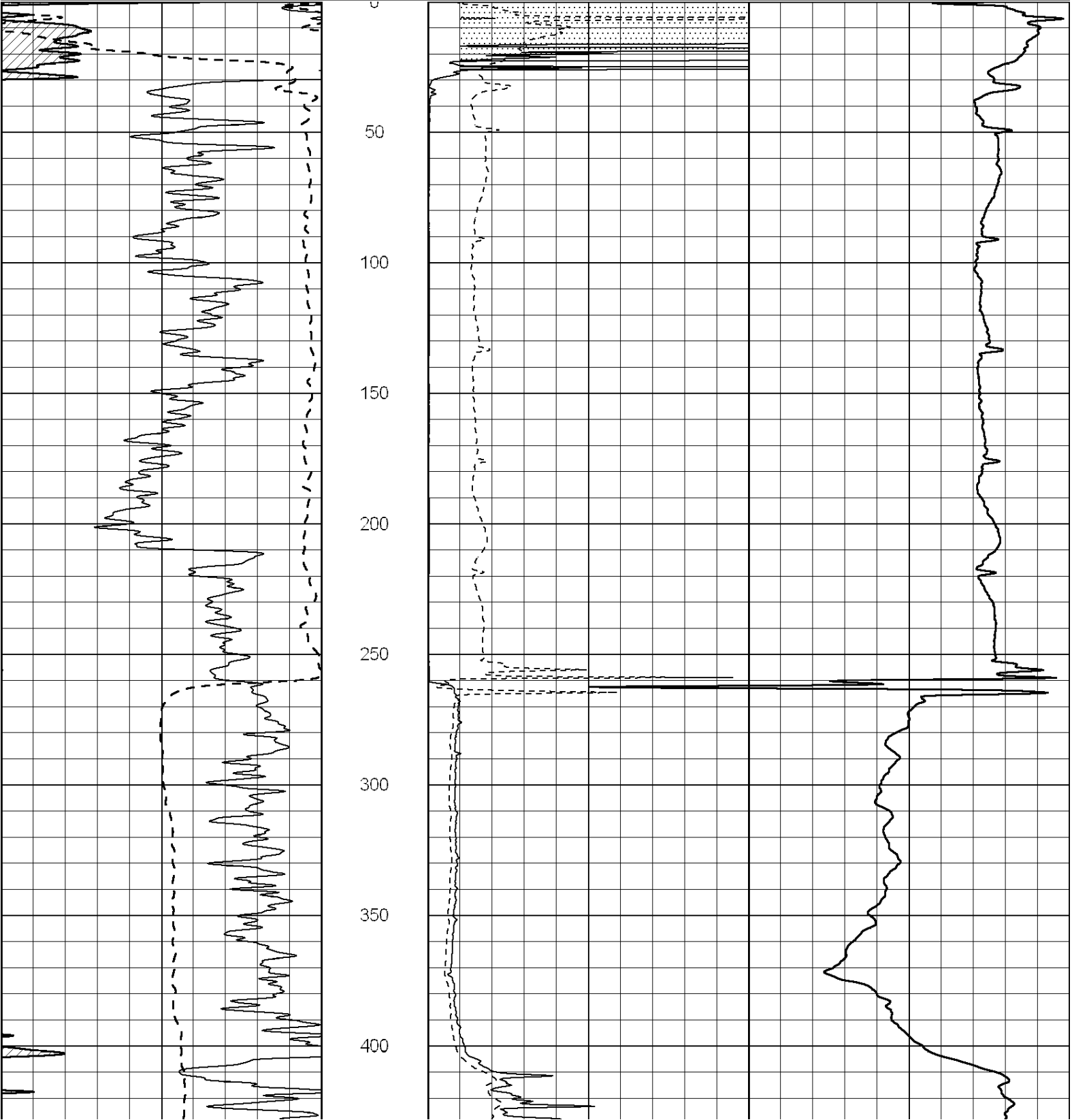
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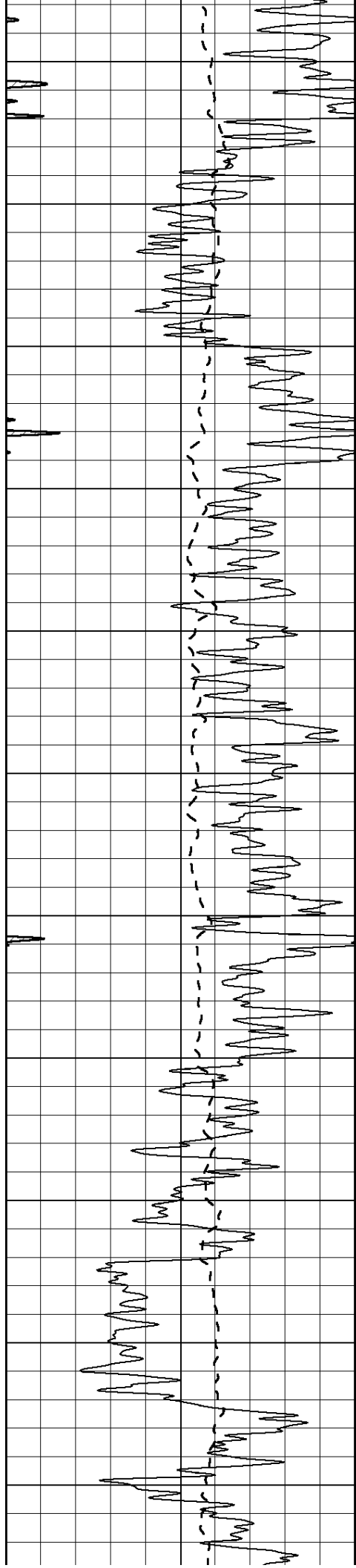
Wed Oct 23 20:18:14 2013 by Calc Open-Cased 090629

Charted by:

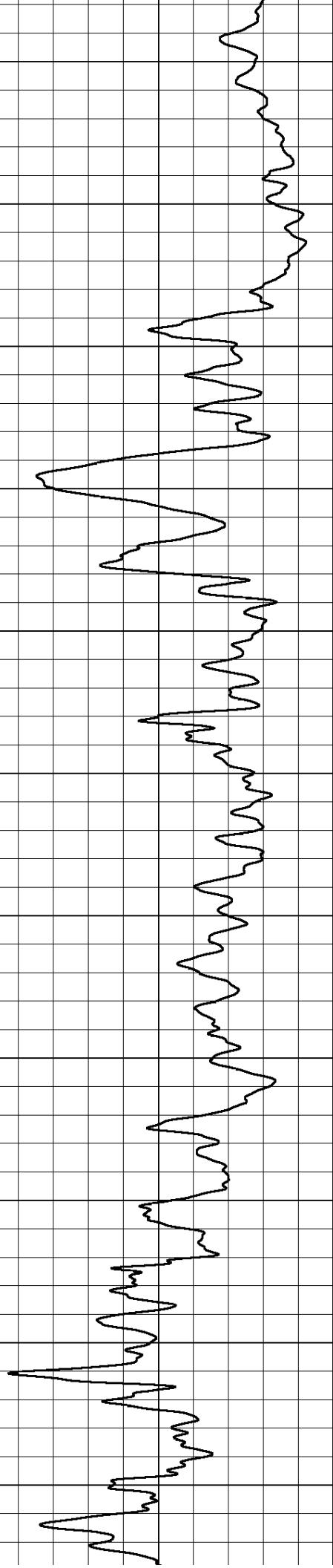
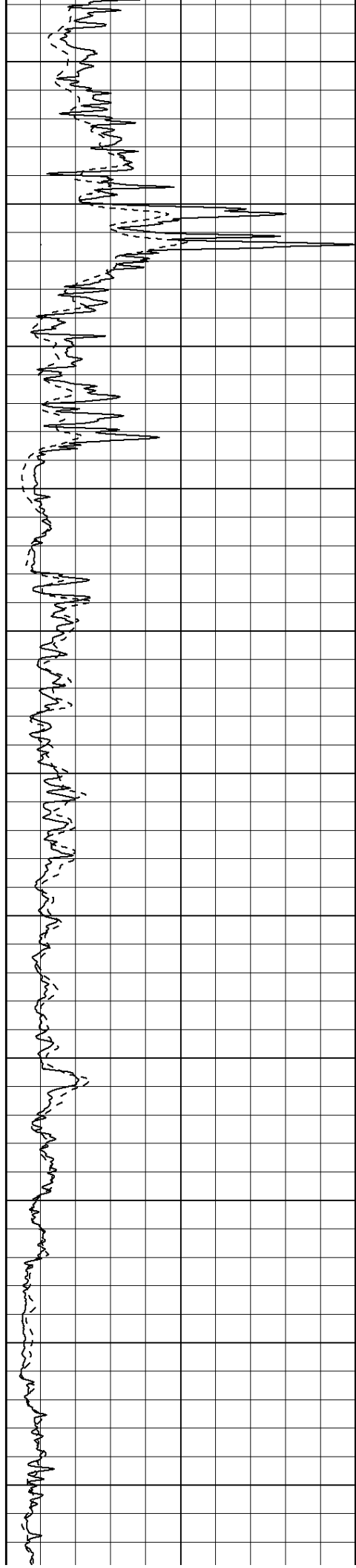
Depth in Feet scaled 1:600

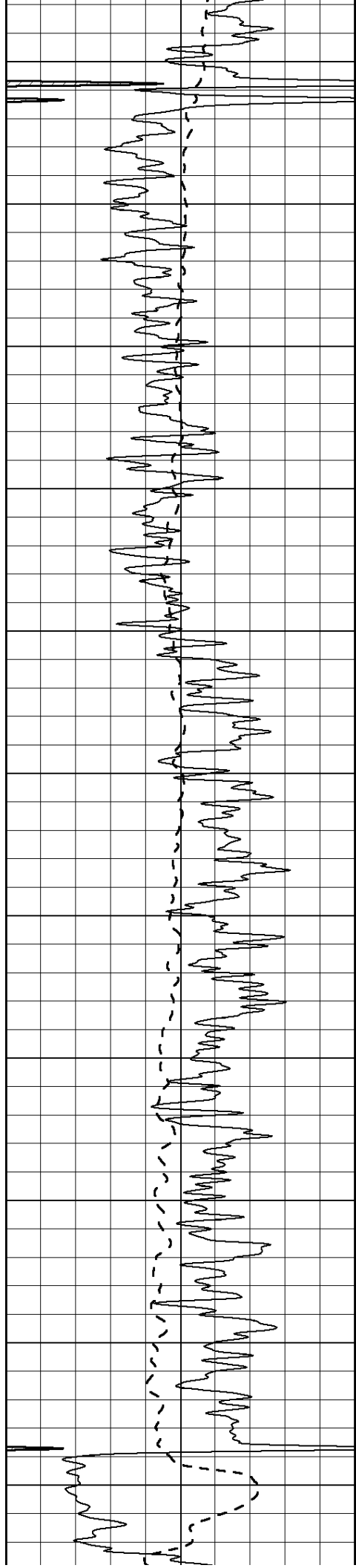
0	Gamma Ray (GAPI)	150	0	RLL3 (Ohm-m)	50
-100	SP (mV)	100	0	Deep Induction (Ohm-m)	50
-----			-----		
			1000	CILD (mmho/m)	0
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500
-----			-----		





450
500
550
600
650
700
750
800
850
900
950





1000

1050

1100

1150

1200

1250

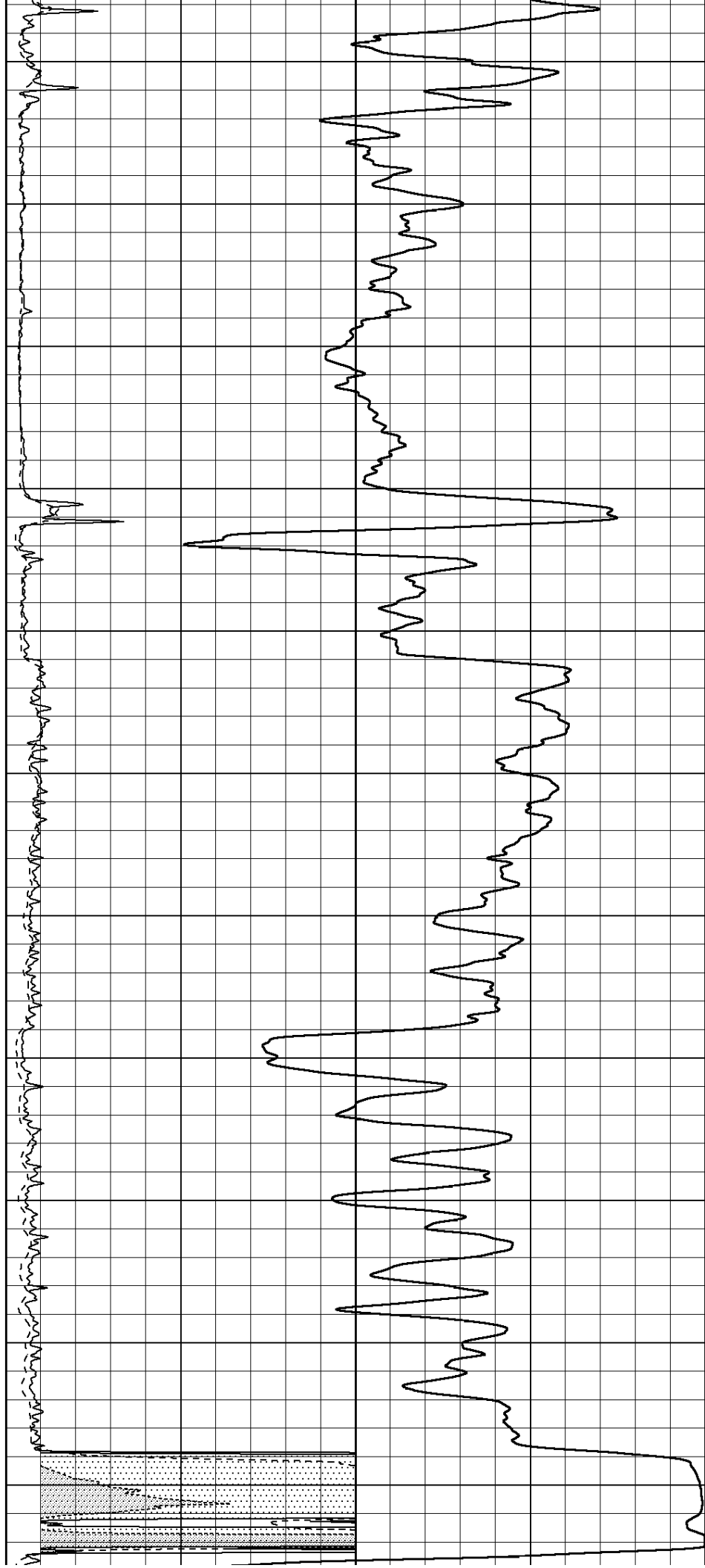
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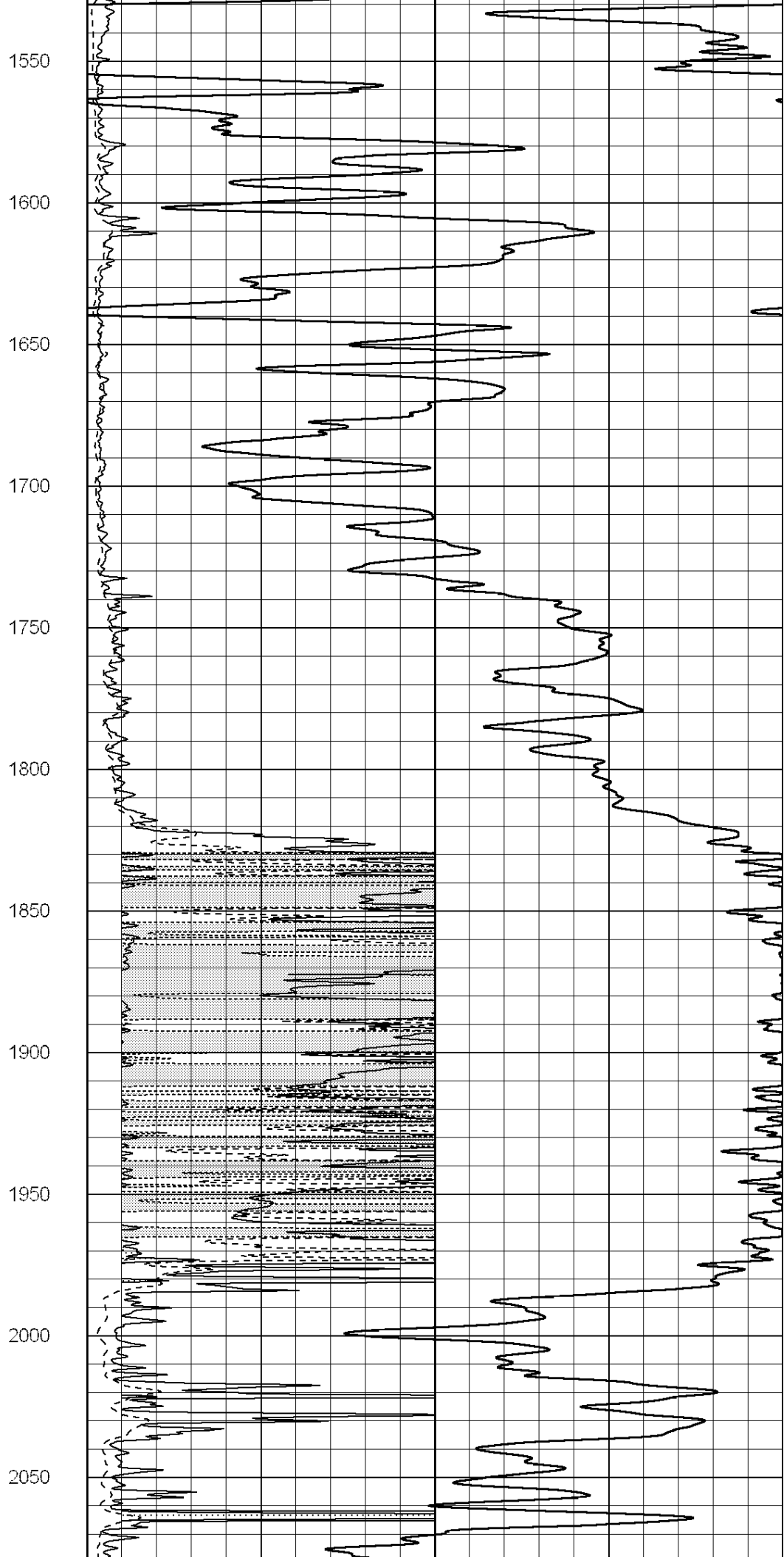
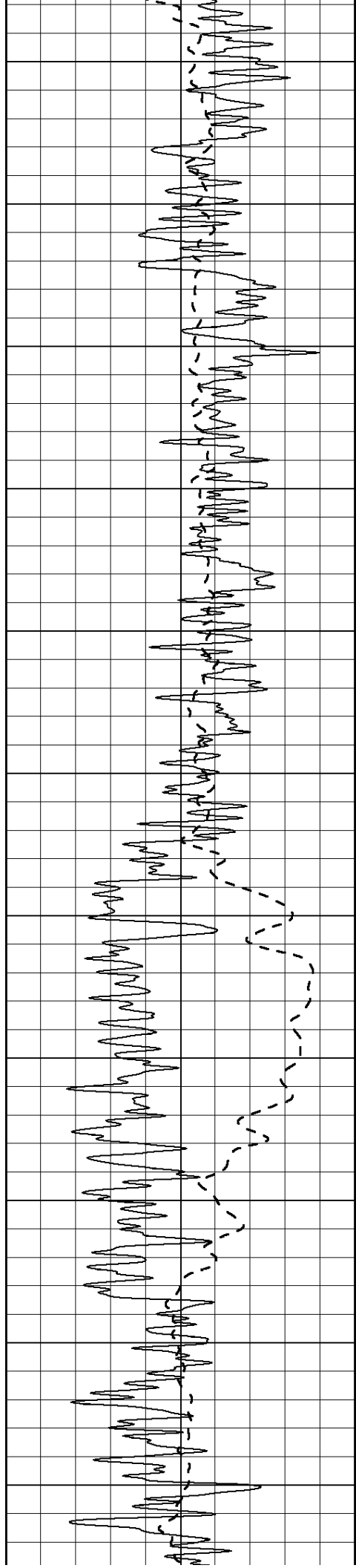
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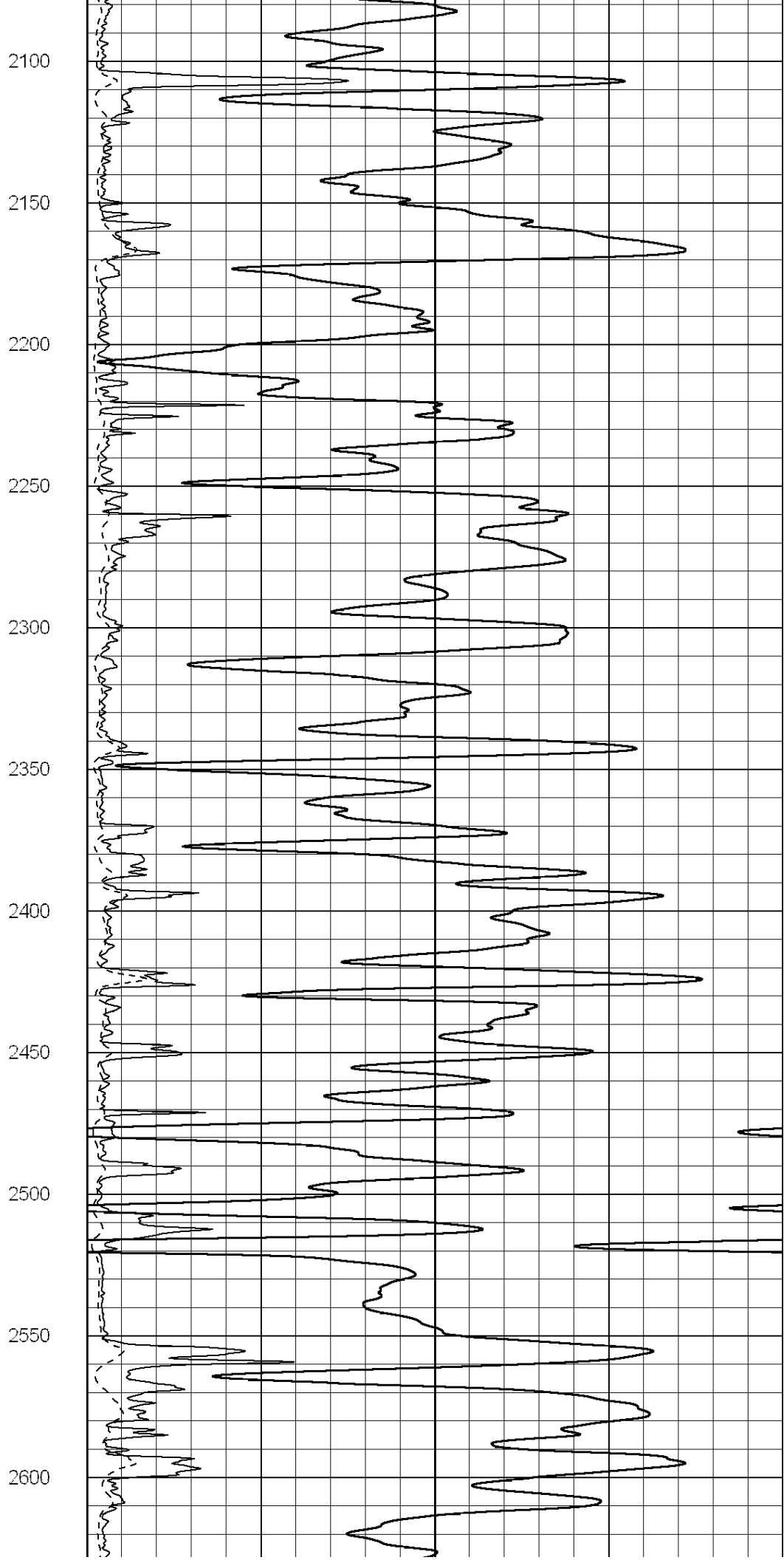
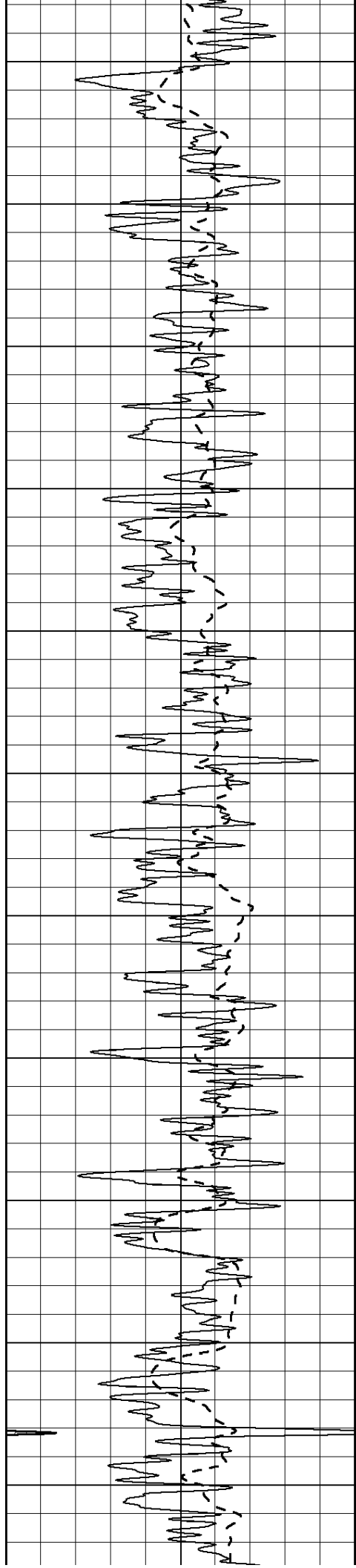
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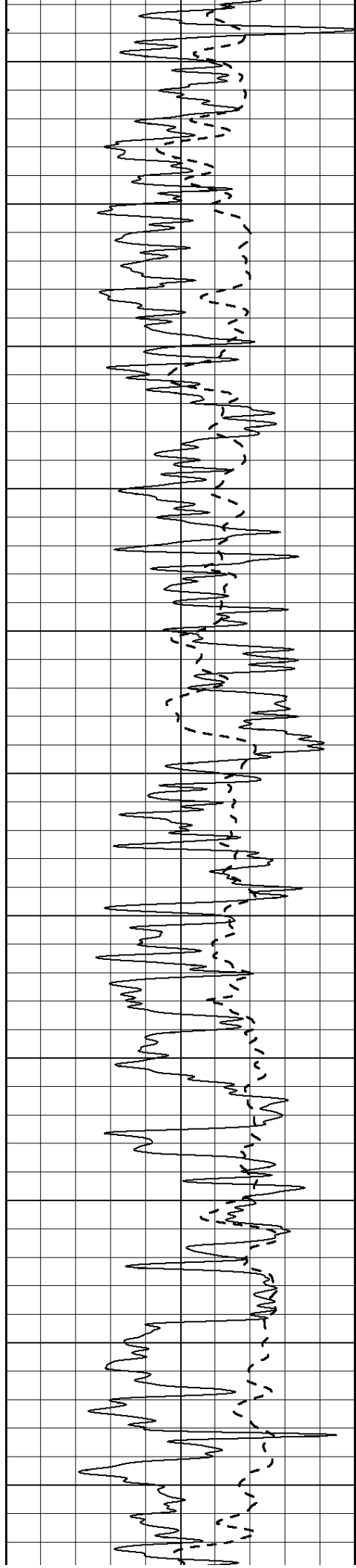
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1500









2650

2700

2750

2800

2850

2900

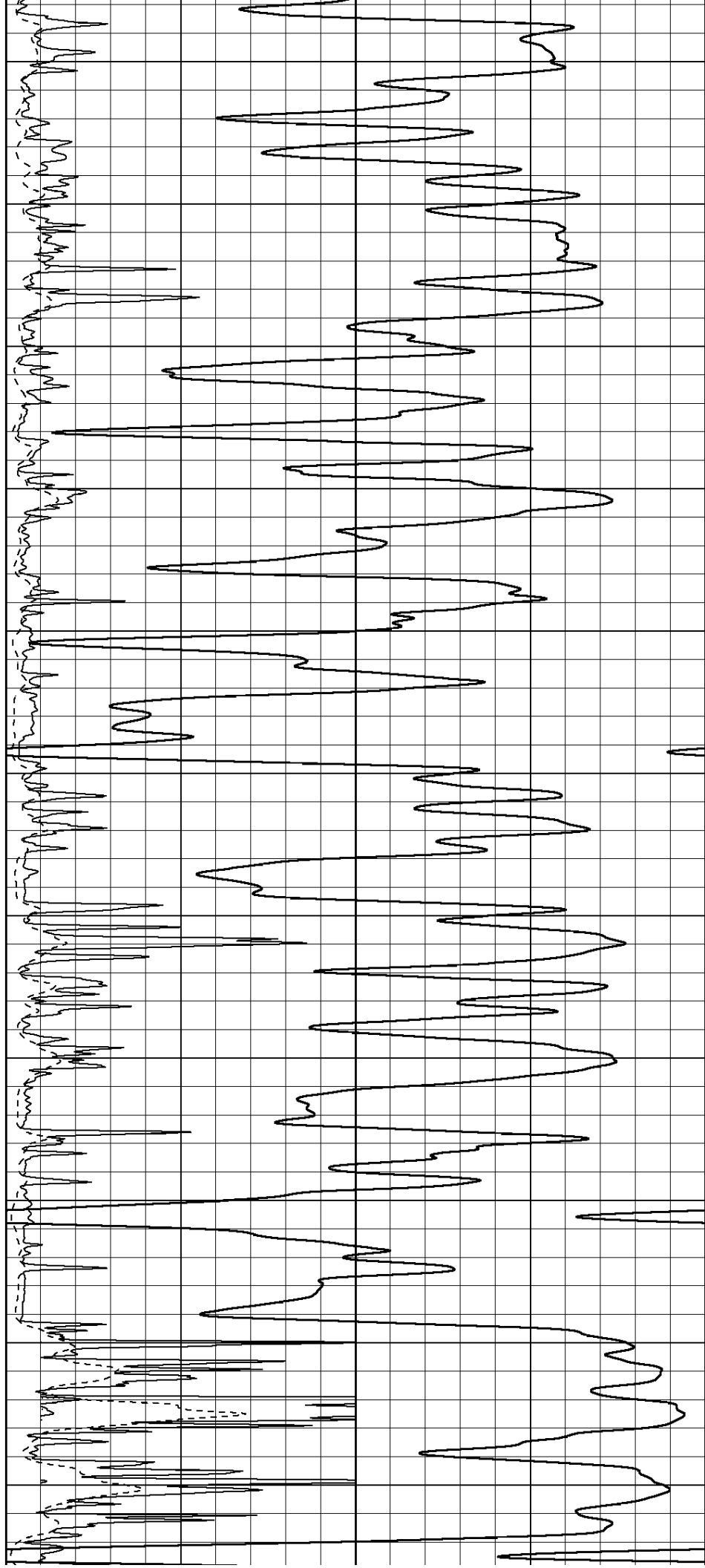
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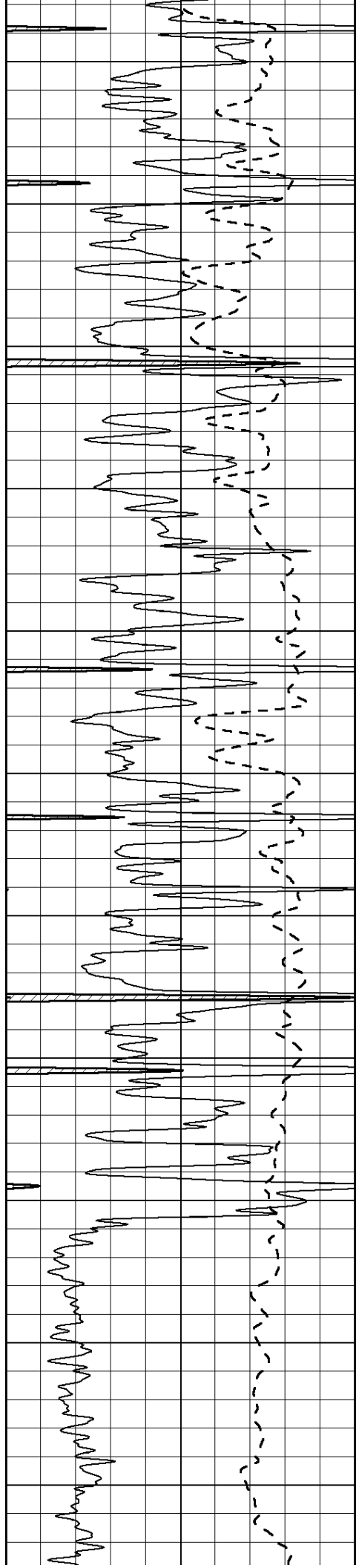
3000

3050

3100

3150





3200

3250

3300

3350

3400

3450

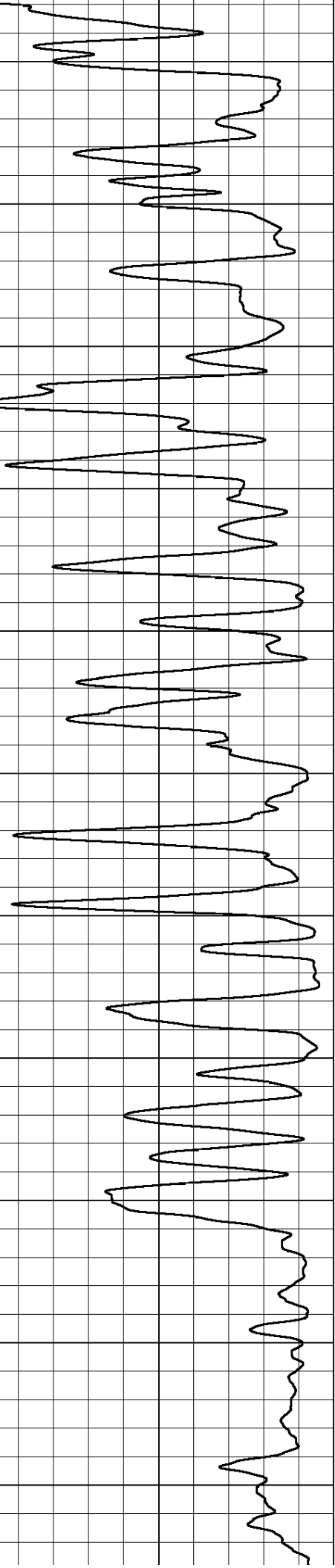
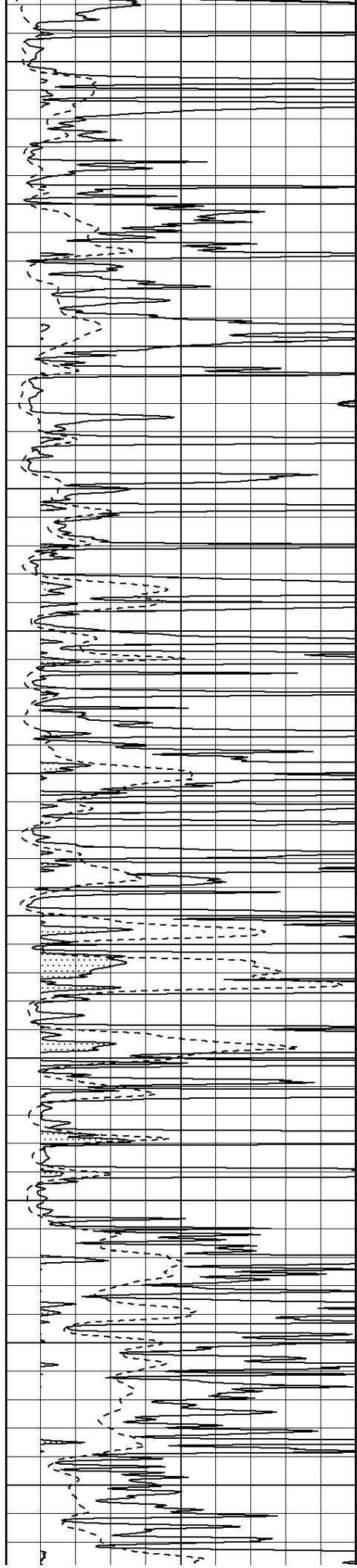
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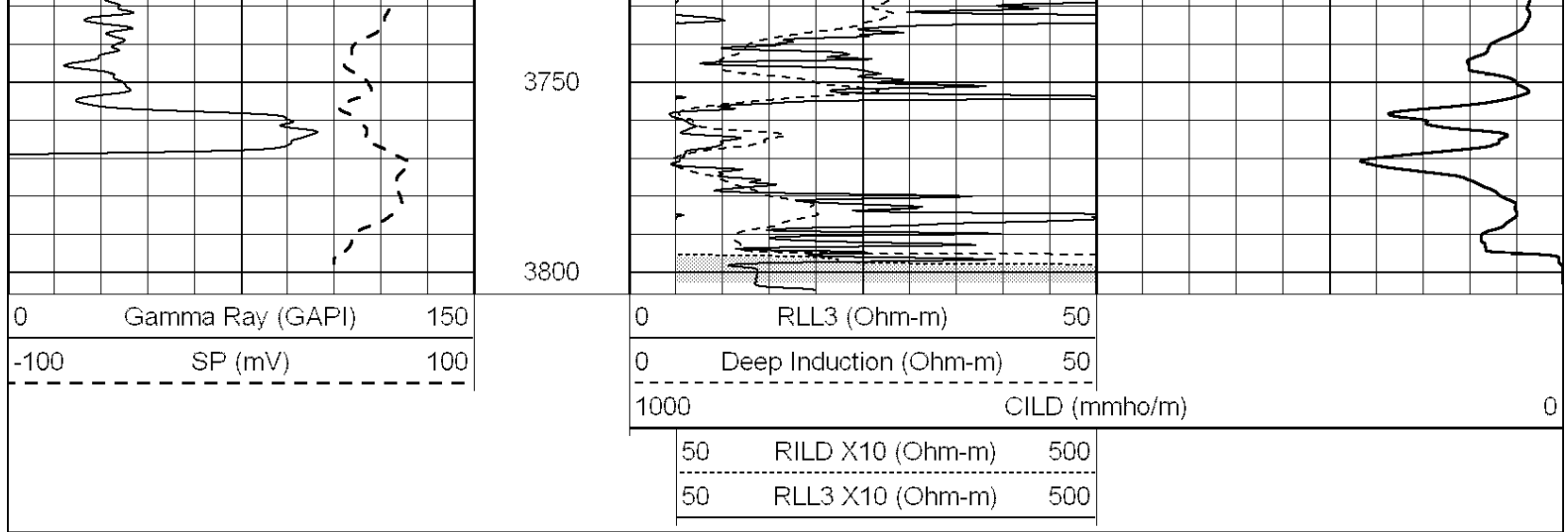
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3600

3650

3700



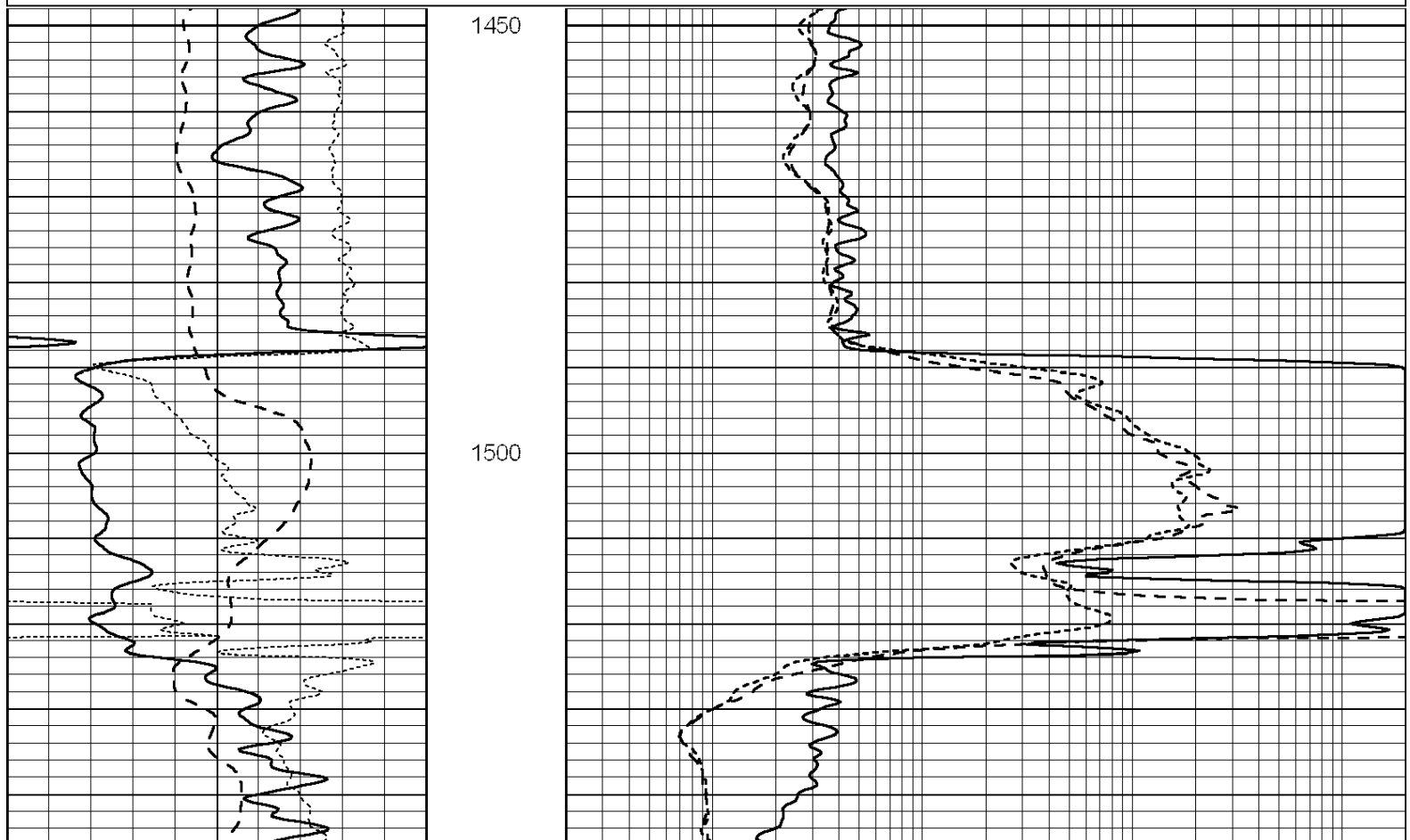


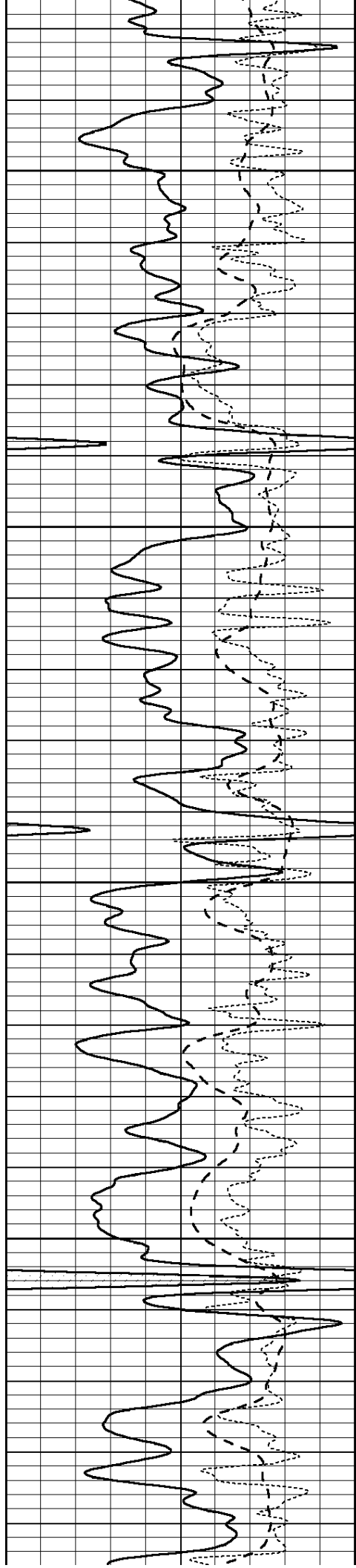
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ANHYDRITE

Database File: 010949ddn.db
 Dataset Pathname: pass3.2
 Presentation Format: _dil
 Dataset Creation: Wed Oct 23 19:39:56 2013 by Calc Open-Cased 090629
 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



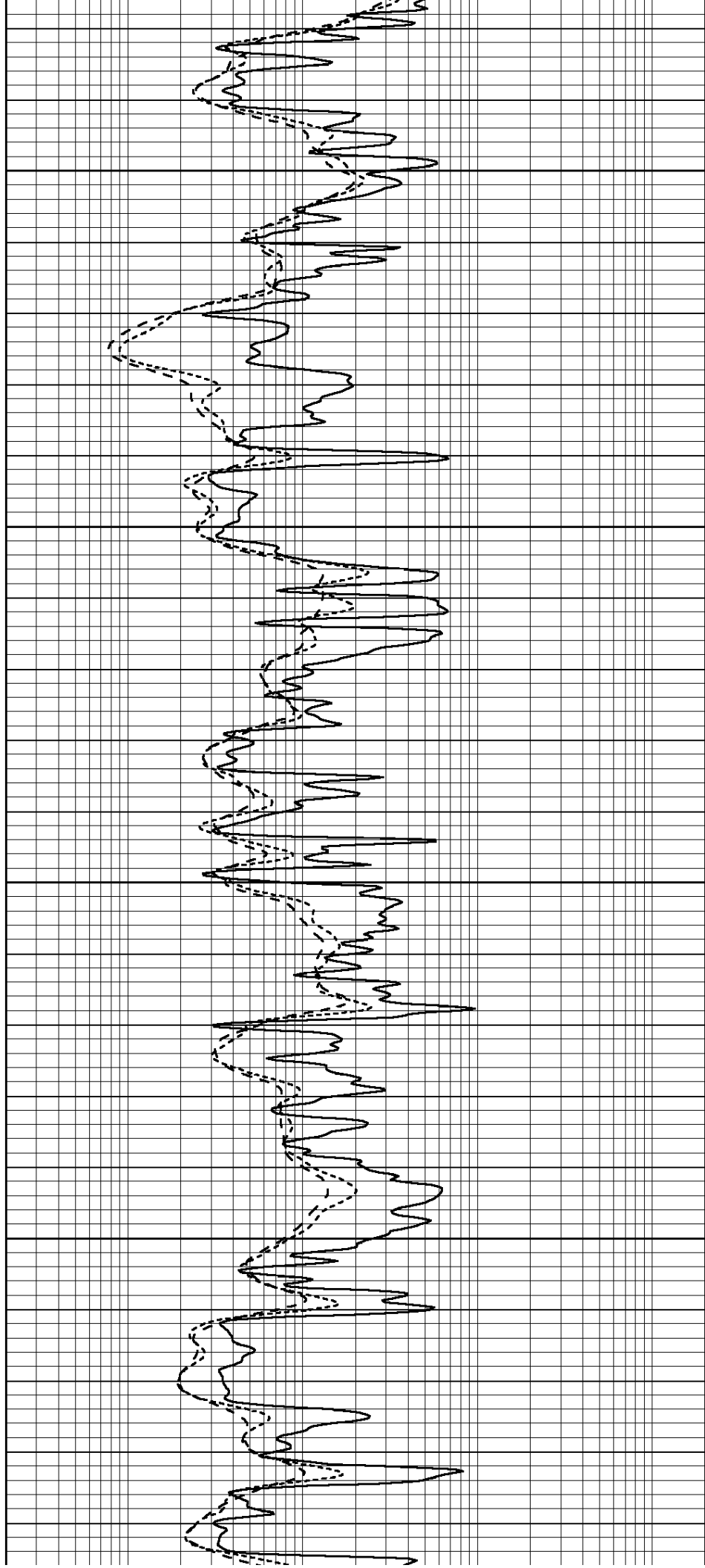


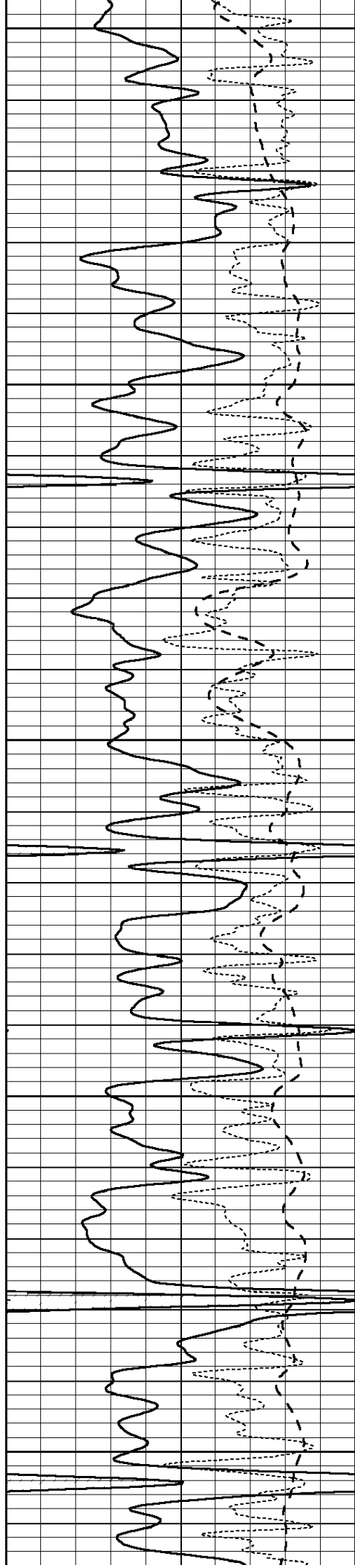
3150

3200

3250

3300





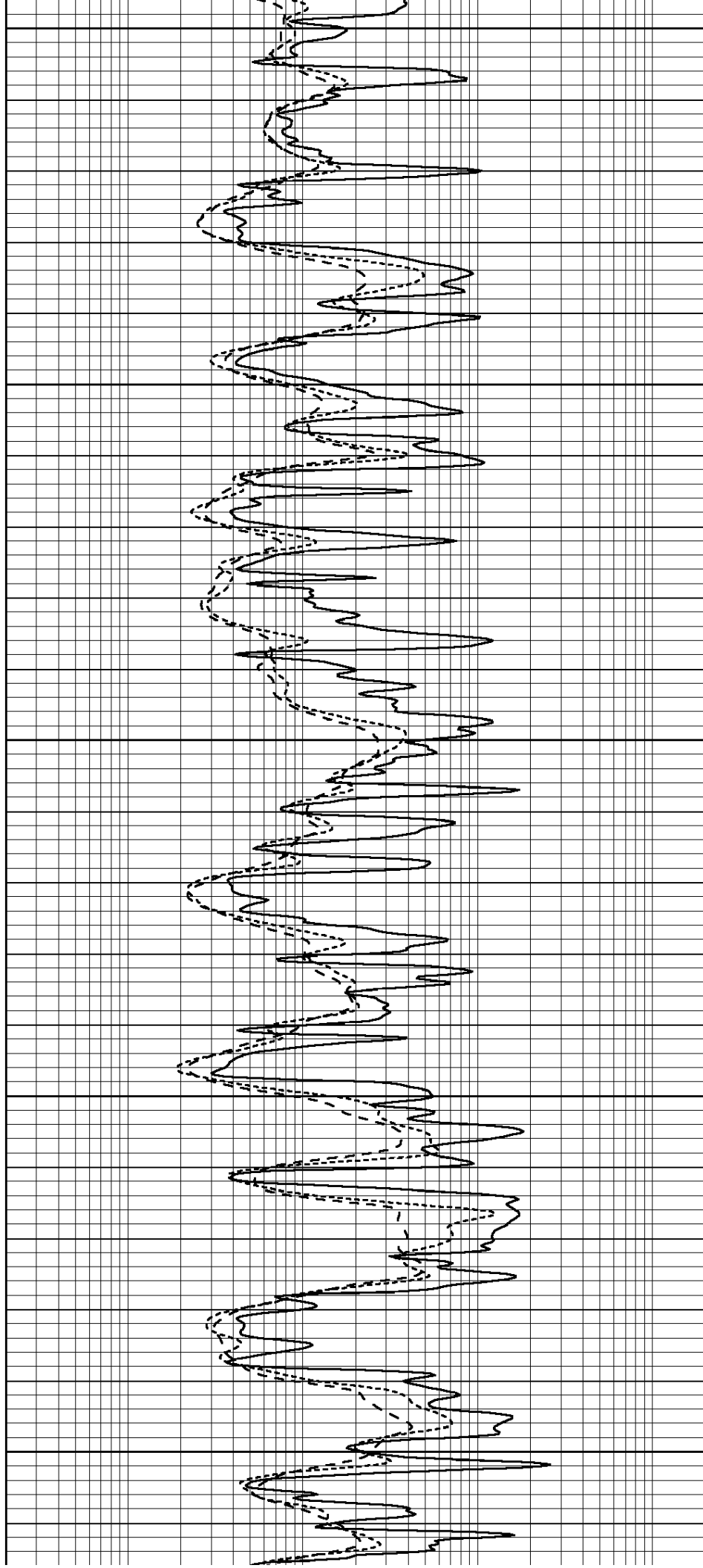
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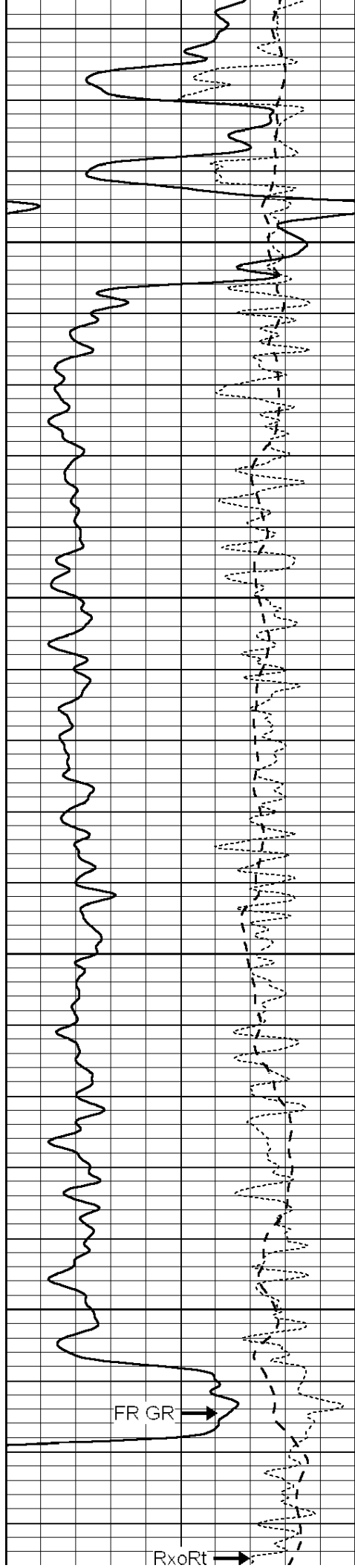
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3450

3500

3550





3600

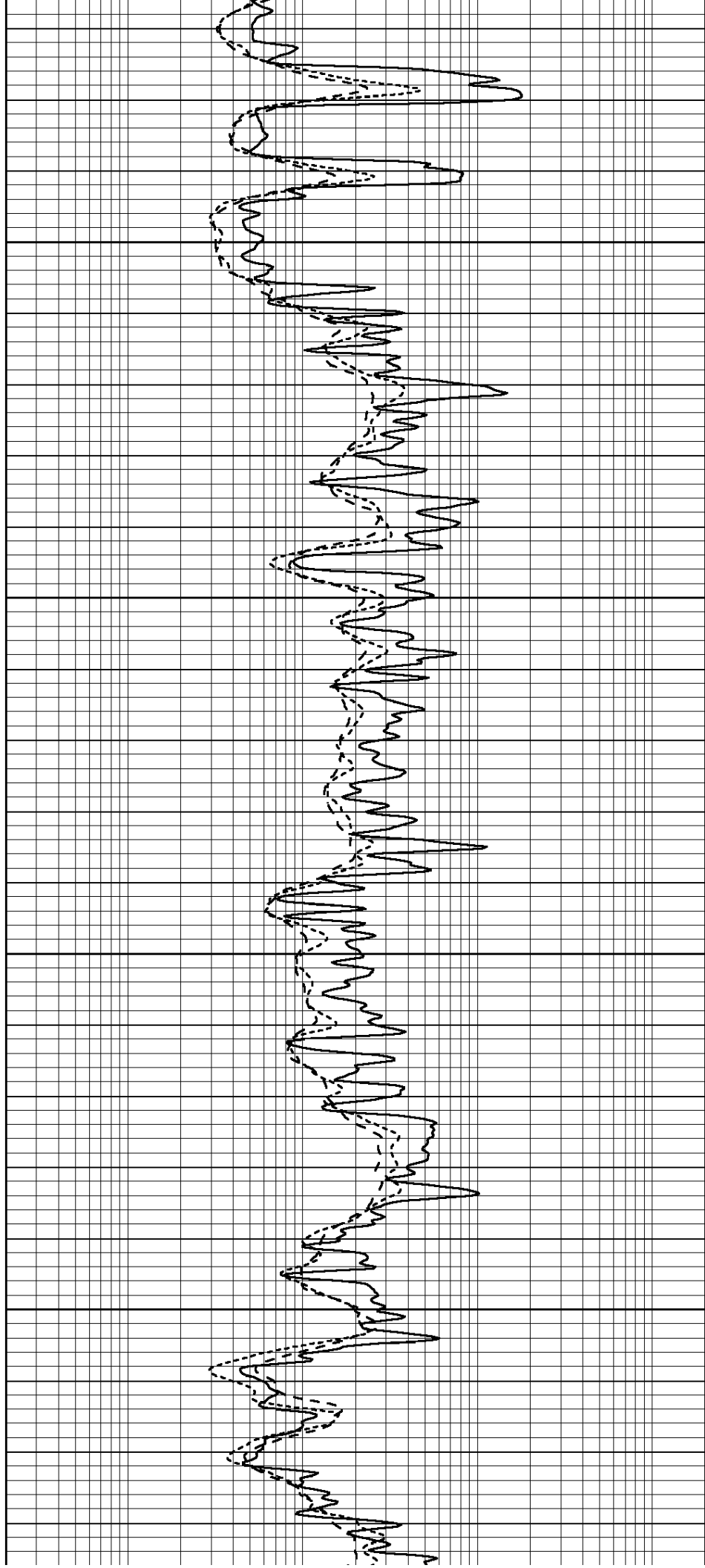
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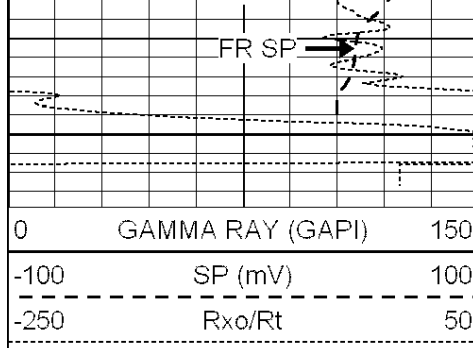
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3750

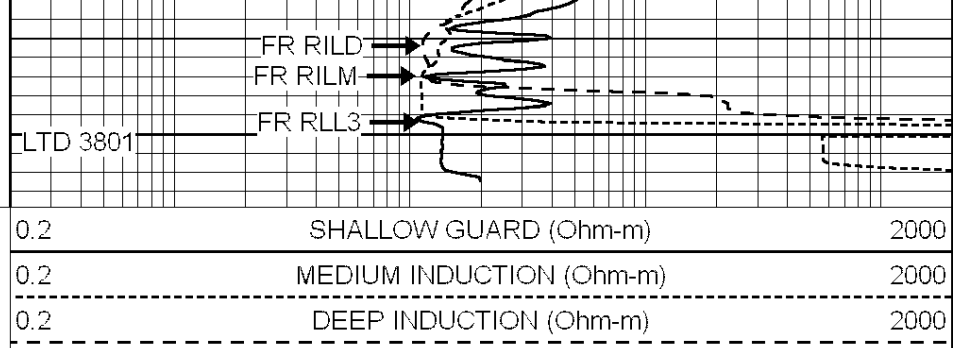
FR GR

RxoRt





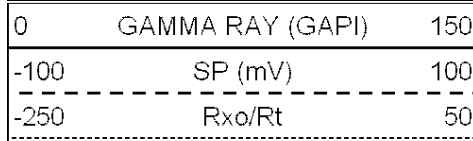
3800



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REPEAT SECTION

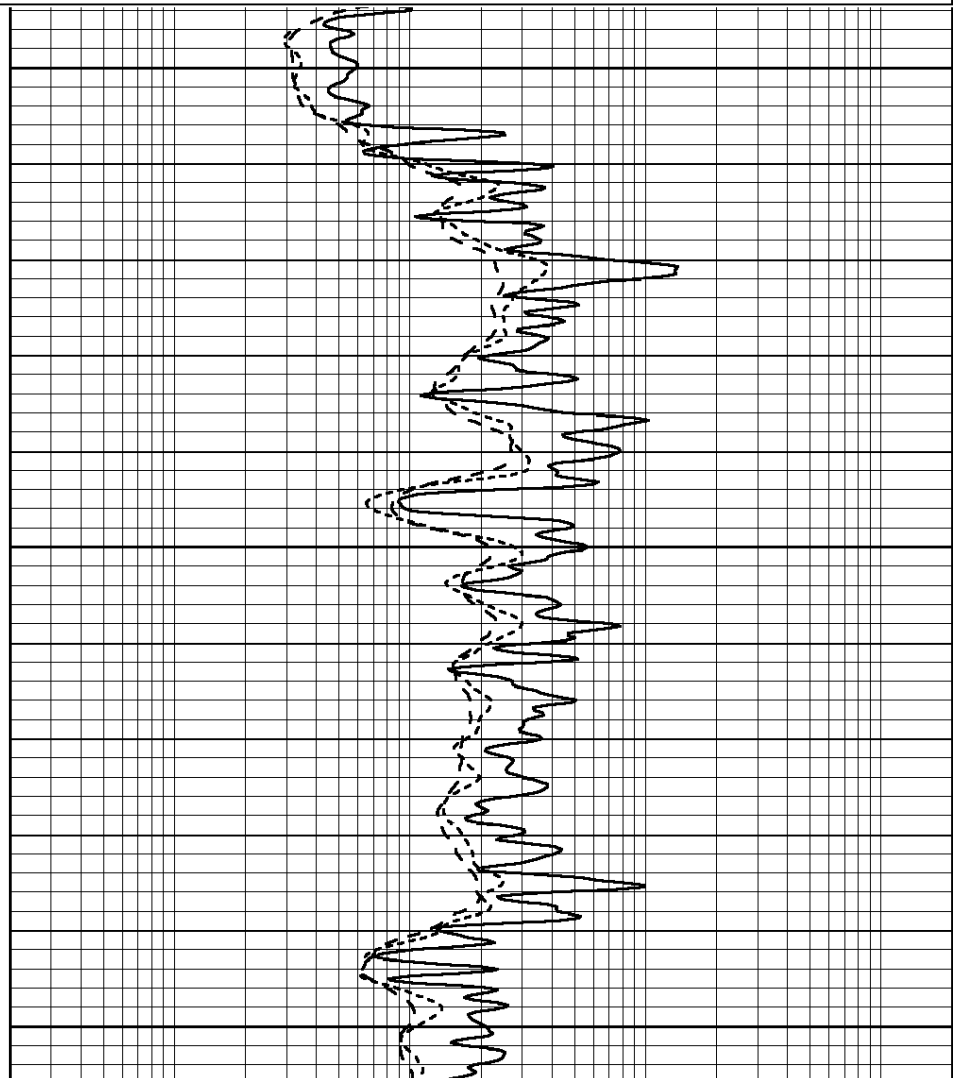
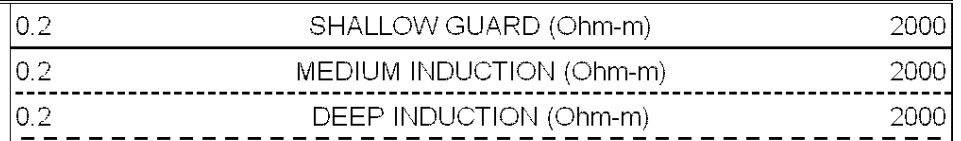
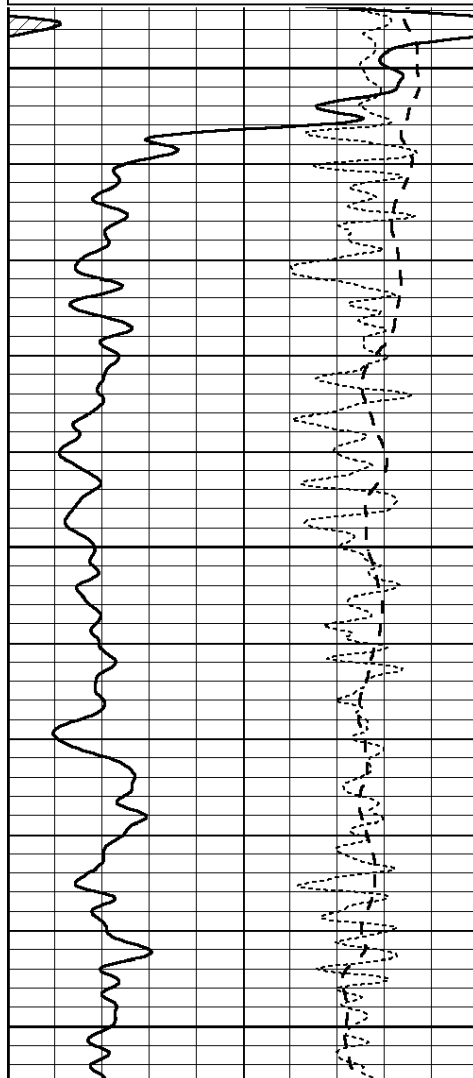
Database File: 010949ddn.db
Dataset Pathname: pass2.1
Presentation Format: _dil
Dataset Creation: Wed Oct 23 19:14:56 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

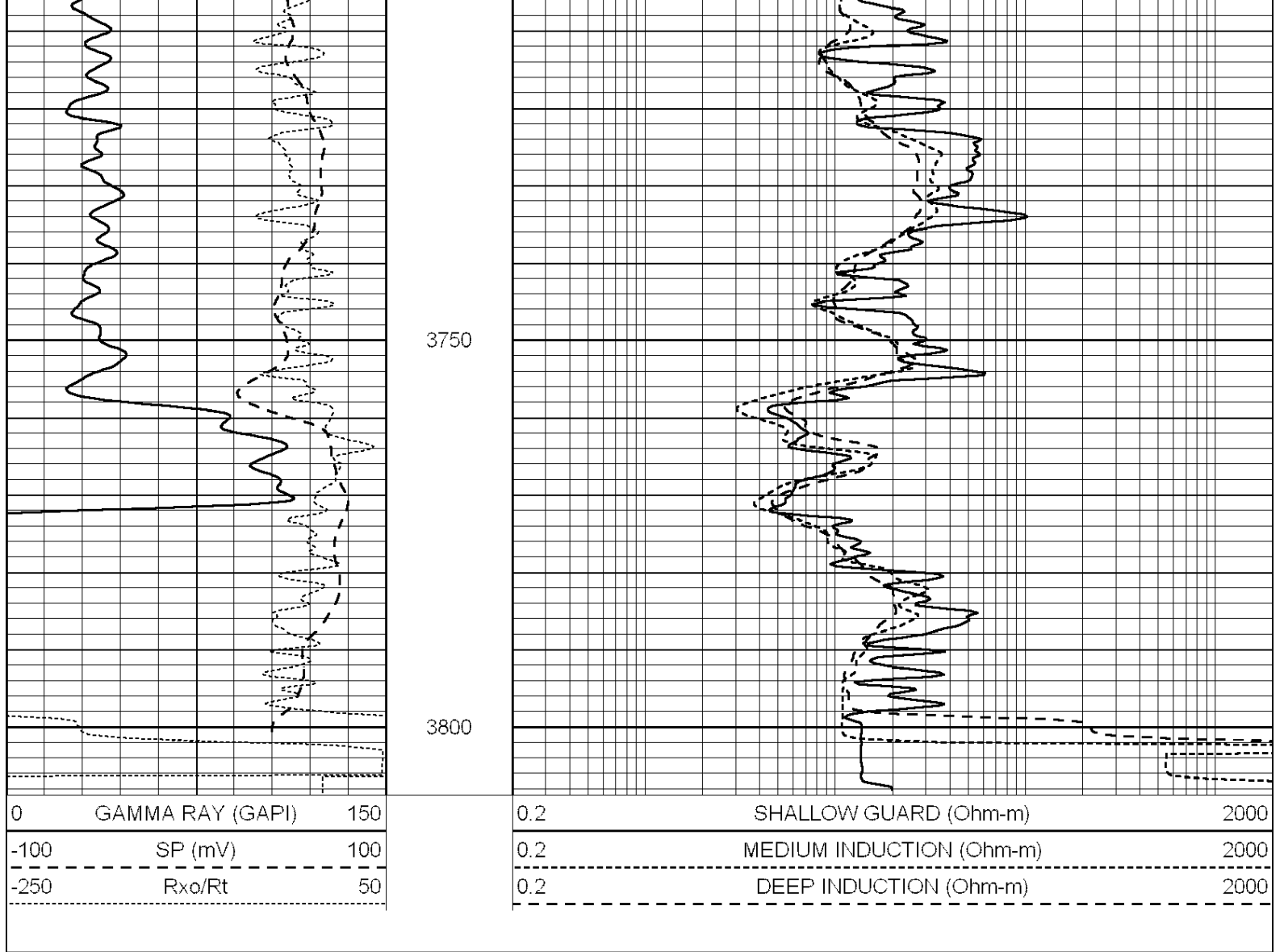


3600

3650

3700





Calibration Report

Database File: 010949ddn.db
 Dataset Pathname: pass3.1
 Dataset Creation: Wed Oct 23 19:22:50 2013 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
 Surface Cal Performed: Fri Aug 01 06:33:19 2008
 Downhole Cal Performed: Mon Jul 28 11:08:27 2008
 After Survey Verification Performed: Mon Jul 28 11:08:27 2008

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b

	<u>Zero</u>	<u>Cal</u>		<u>Zero</u>	<u>Cal</u>		<u>m</u>	<u>b</u>
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		
After Survey Verification								
	Readings			Targets			Results	
	<u>Zero</u>	<u>Cal</u>		<u>Zero</u>	<u>Cal</u>		<u>m'</u>	<u>b'</u>
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		
Compensated Density Calibration Report								
Serial-Model:				GEAR4-GEARHART				
Source / Verifier:				143 / 143				
Master Calibration Performed:				Mon Mar 19 19:07:19 2012				
Master Calibration								
	<u>Density</u>			<u>Far Detector</u>		<u>Near Detector</u>		
Magnesium	1.710	g/cc		1015.91		497.51	cps	
Aluminum	2.600	g/cc		227.67		350.20	cps	
Spine Angle = 76.79				Density/Spine Ratio = 0.579				
	<u>Size</u>			<u>Reading</u>				
Small Ring	8.00	in		3.21	V			
Large Ring	14.00	in		5.46	V			
Compensated Neutron Calibration Report								
Serial Number:				6I				
Tool Model:				G				
CALIBRATION								
Detector		Readings		Target		Normalization		
Short Space		1.00	cps	1.00	cps	1.0000		
Long Space		1.00	cps	1.00	cps	1.0000		
Gamma Ray Calibration Report								
Serial Number:			#8					
Tool Model:			OPEN					
Performed:			Mon Jun 13 16:56:43 2011					
Calibrator Value:			150.0	GAPI				
Background Reading:			0.0	cps				
Calibrator Reading:			175.0	cps				
Sensitivity:			0.8371	GAPI/cps				