



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company		BLUERIDGE PETROLEUM CORP.	
Well		RULE #1-31	
Field			
County		NORTON	
State		KANSAS	
Company		BLUERIDGE PETROLEUM CORP.	
Well		RULE #1-31	
Field			
County		NORTON	
State		KANSAS	
Location:		API # : 15-137-20674-0000 2240' FSL & 1383' FEL SE - NE - NW - SE	
Permanent Datum		GROUND LEVEL	
Log Measured From		Elevation 2416	
Drilling Measured From		KELLY BUSHING 5' A.G.L.	
		KELLY BUSHING	
SEC 31 TWP 2S RGE 24W		Elevation	
		K.B. 2421	
		D.F. 2419	
		G.L. 2416	
Date	11/12/13		
Run Number	ONE		
Depth Driller	3747		
Depth Logger	3747		
Bottom Logged Interval	3745		
Top Log Interval	00		
Casing Driller	8 5/8" @ 263		
Casing Logger	263		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.5/56		
pH / Fluid Loss	9.5/6.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.00 @ 66F		
Rmf @ Meas. Temp	0.75 @ 66F		
Rmc @ Meas. Temp	1.20 @ 66F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.57 @ 114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	114F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
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 COMPLETION & PRODUCTION SVCS. (785) 628-6395

DIRECTIONS:
NORTON, KS. - 9 MILES WEST - NORTH INTO

Database File:

012089pe.db

Dataset Pathname:

pass3.4

Presentation Format:

_dil2

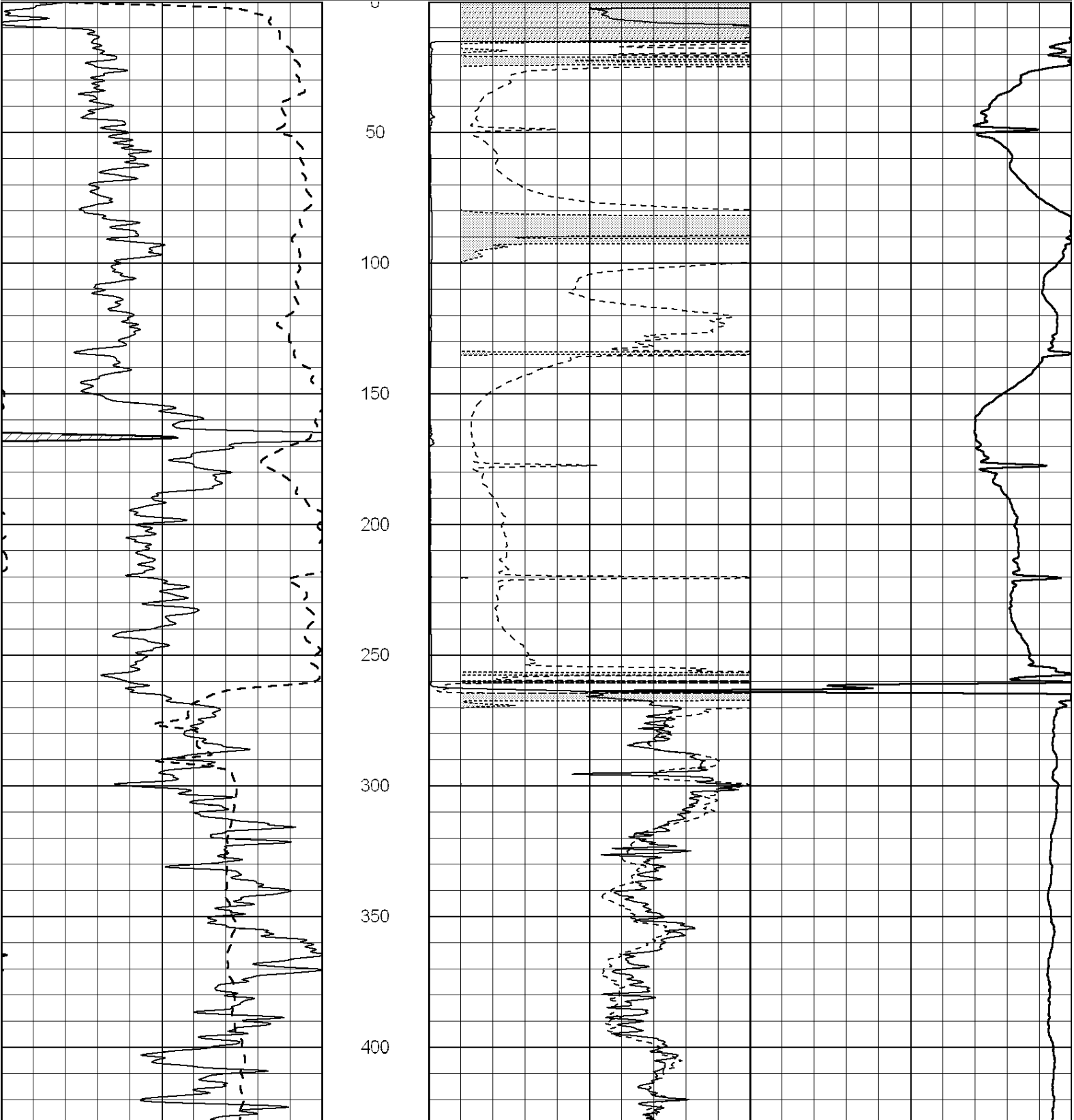
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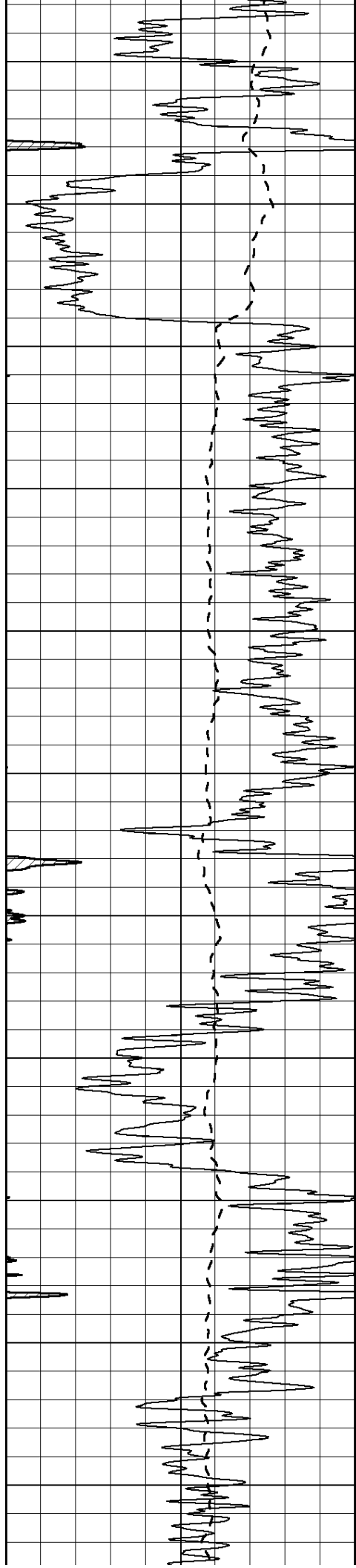
Tue Nov 12 07:32:14 2013 by Calc Open-Cased 090629

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

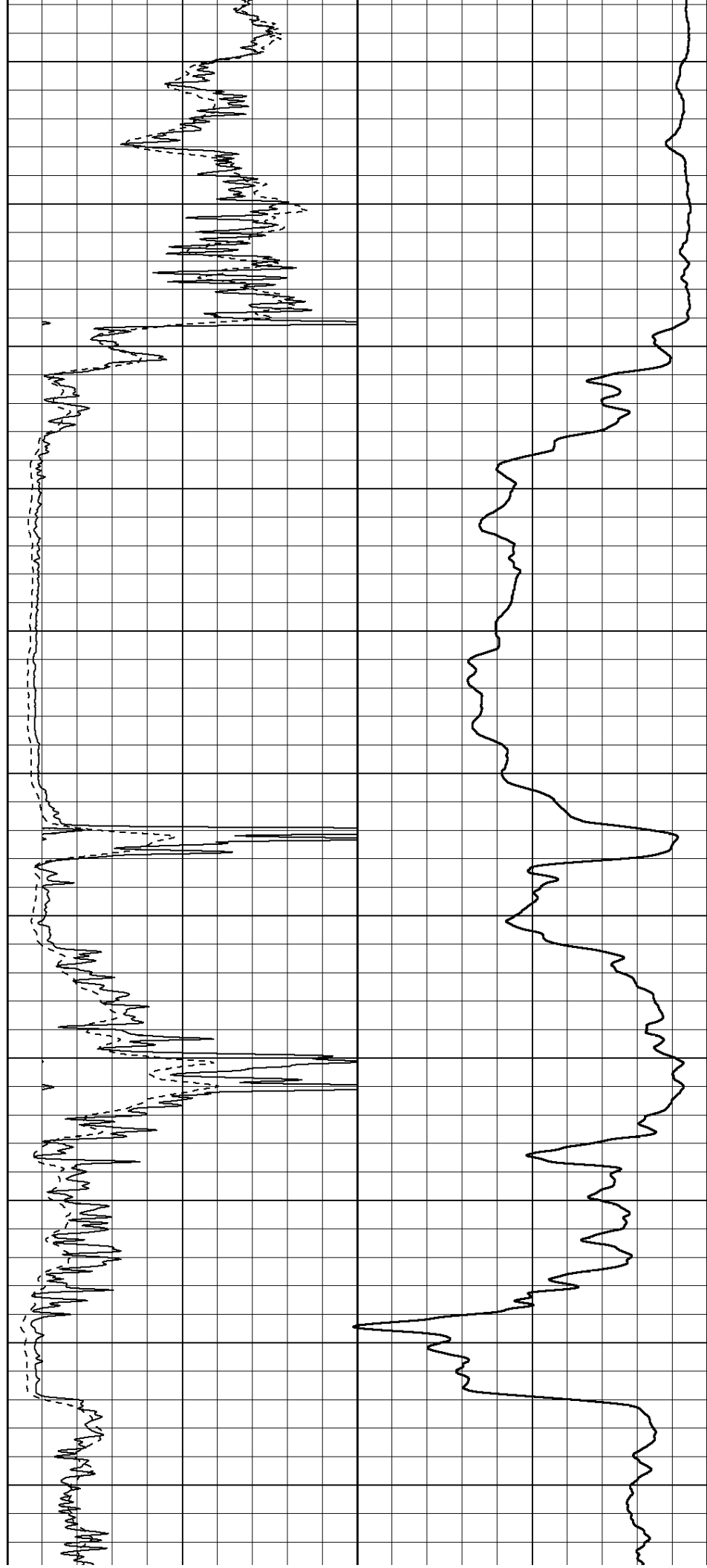
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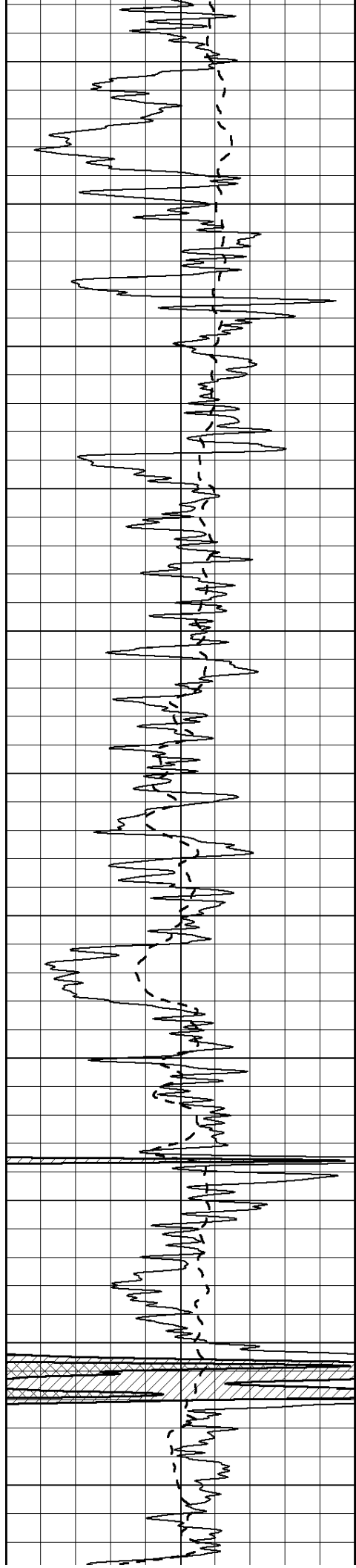
800

850

900

950





1000

1050

1100

1150

1200

1250

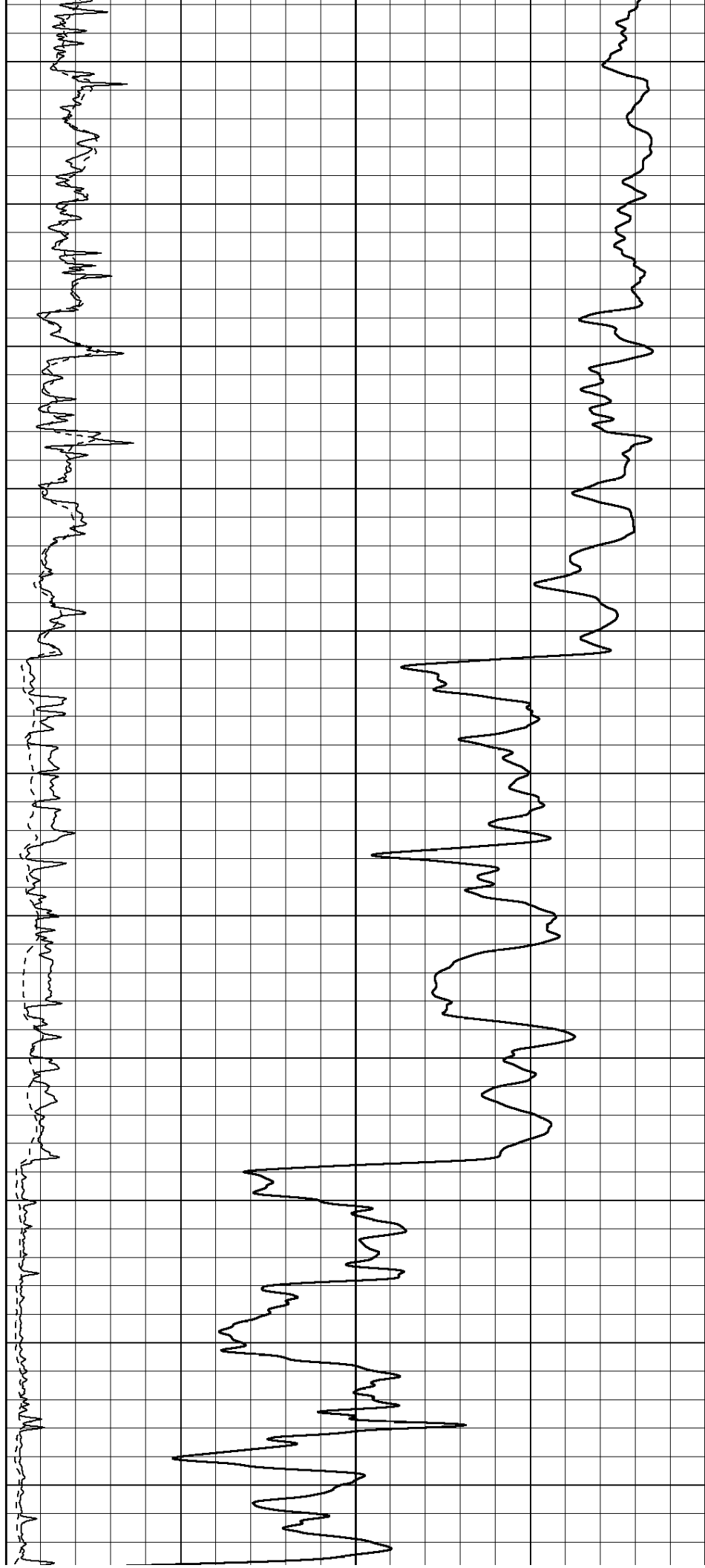
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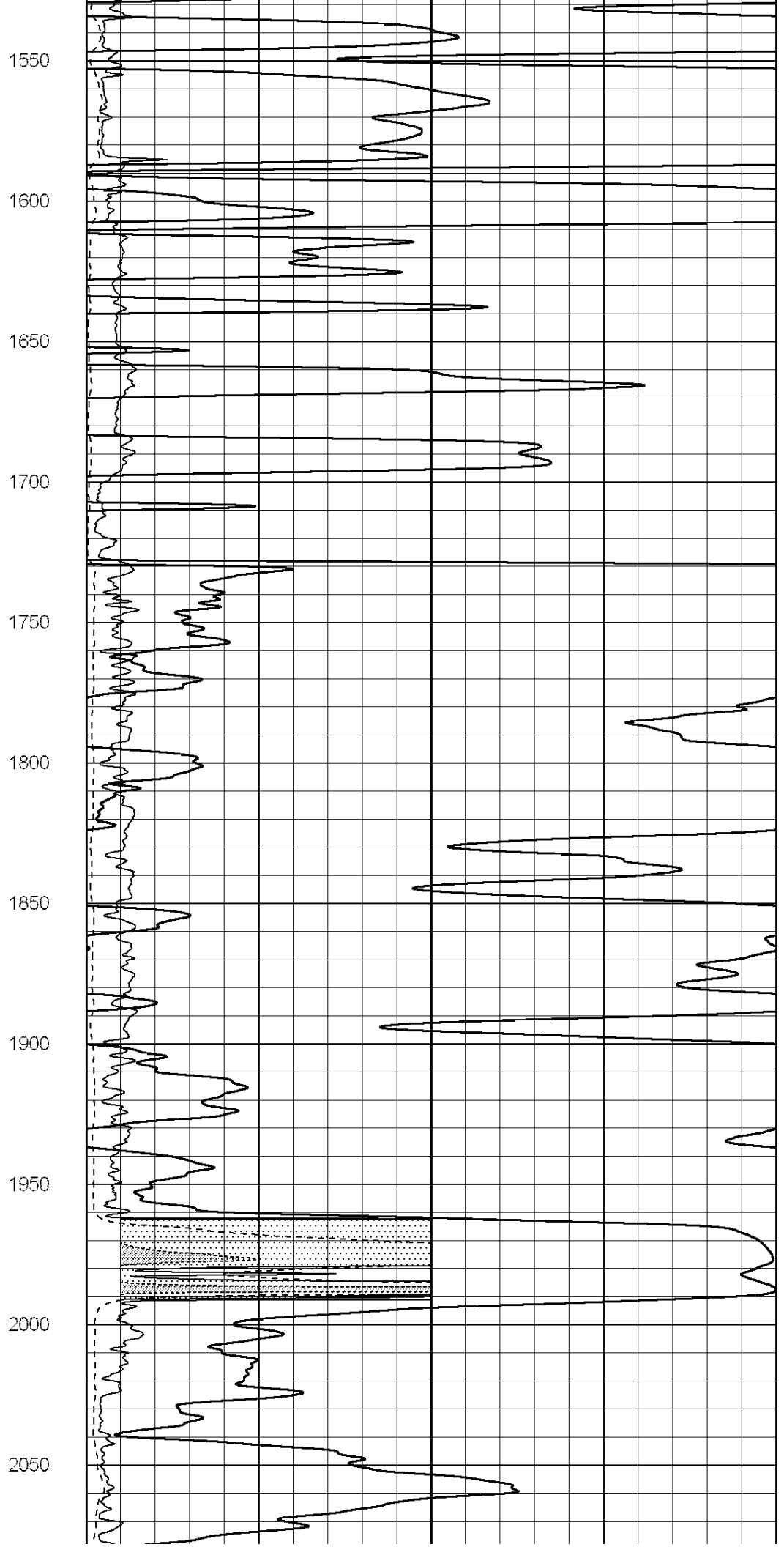
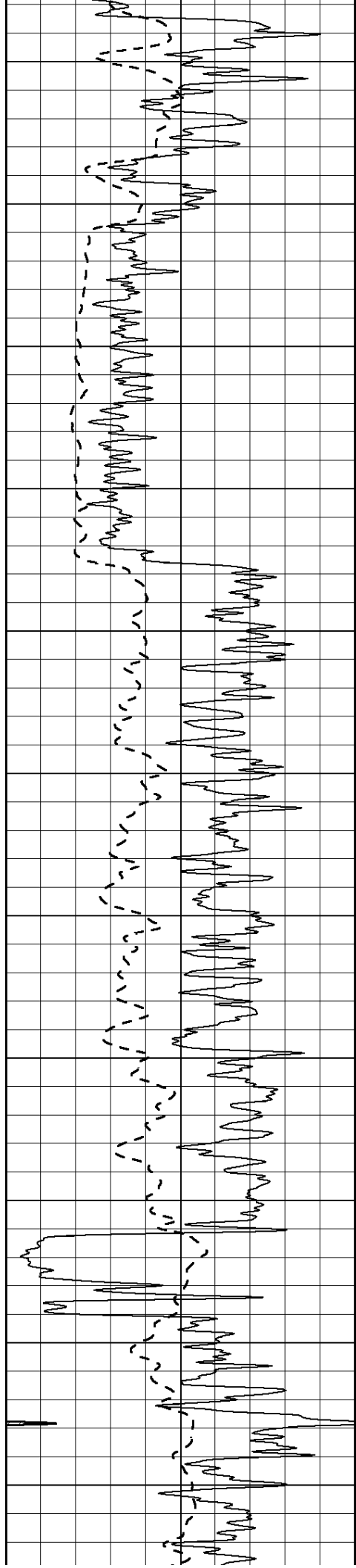
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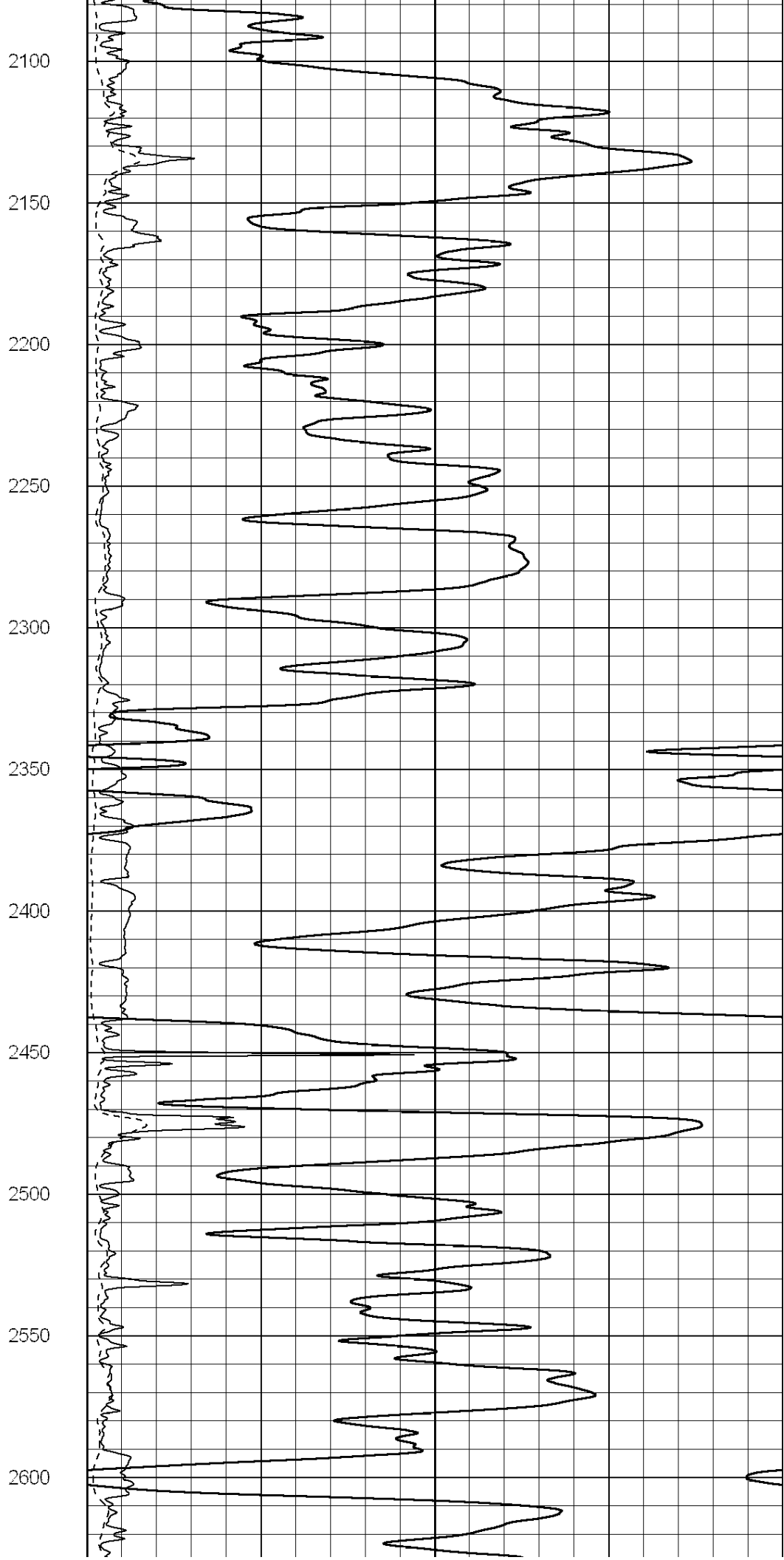
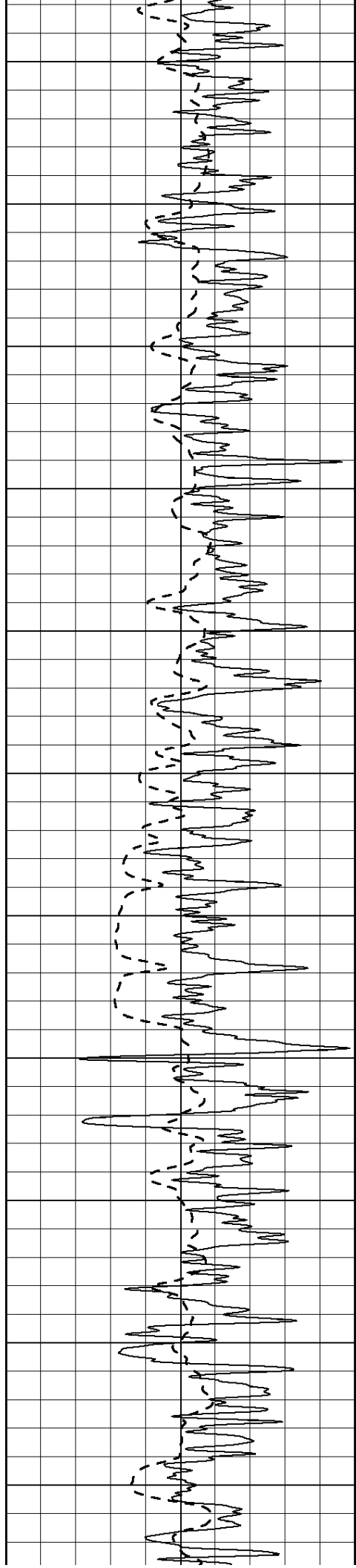
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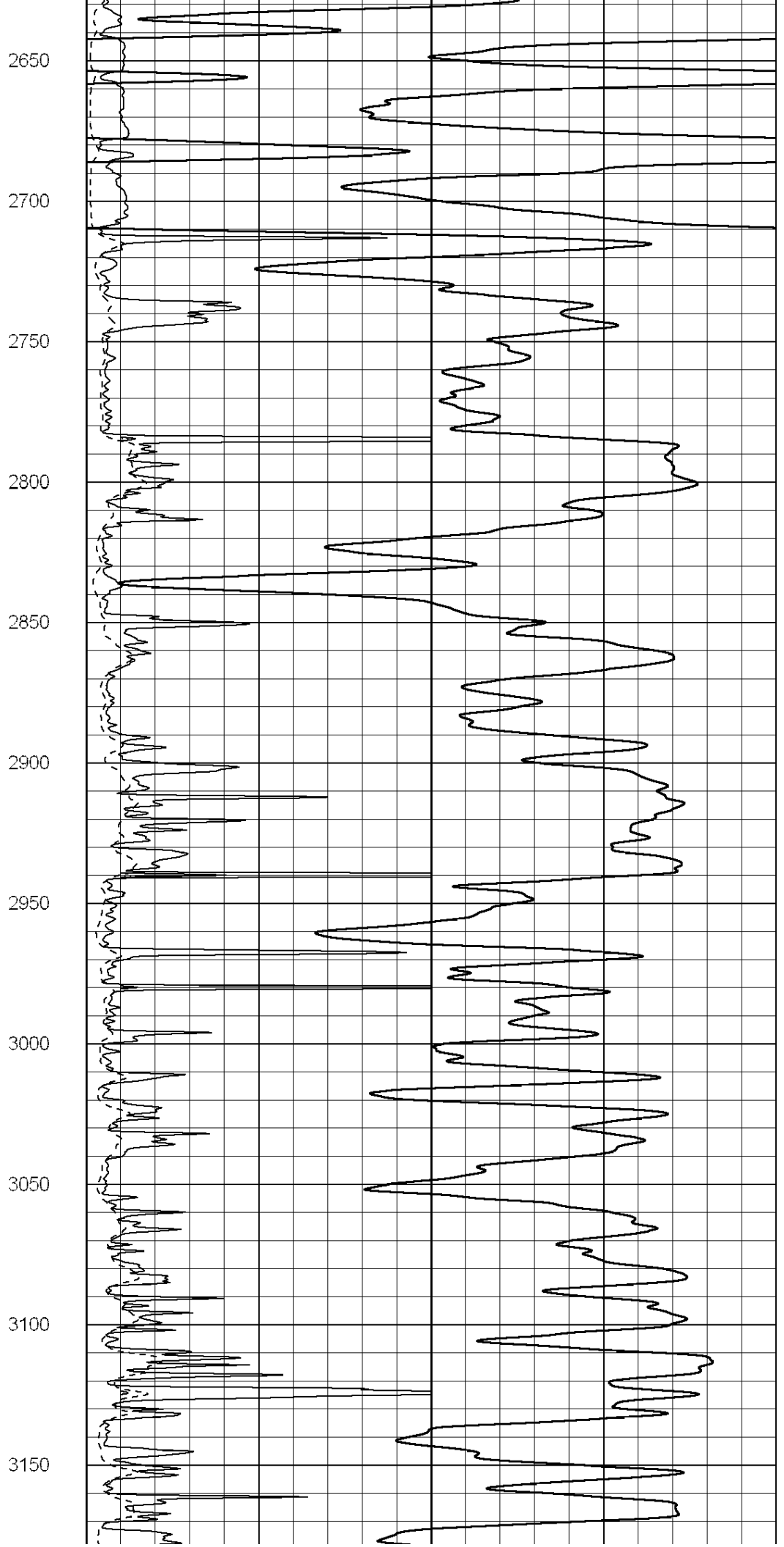
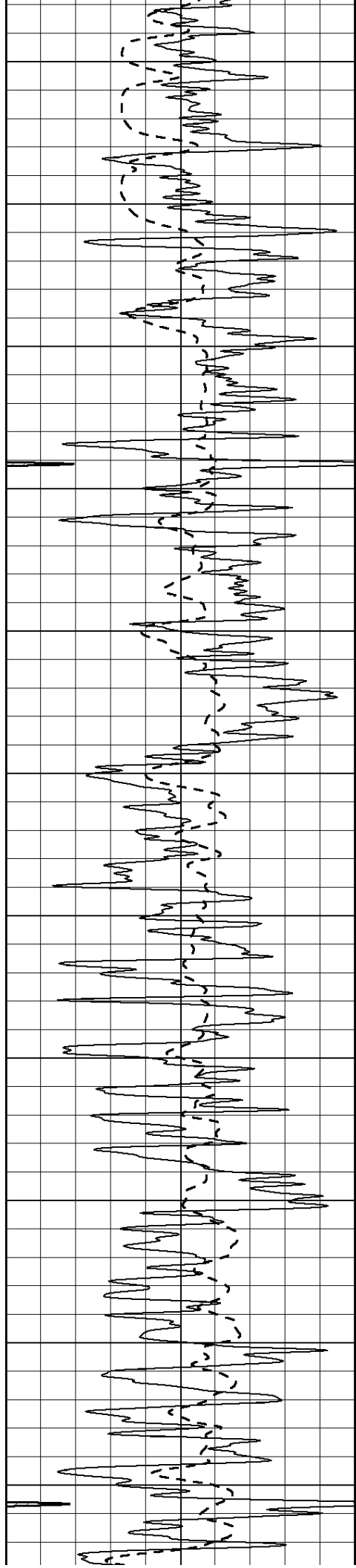
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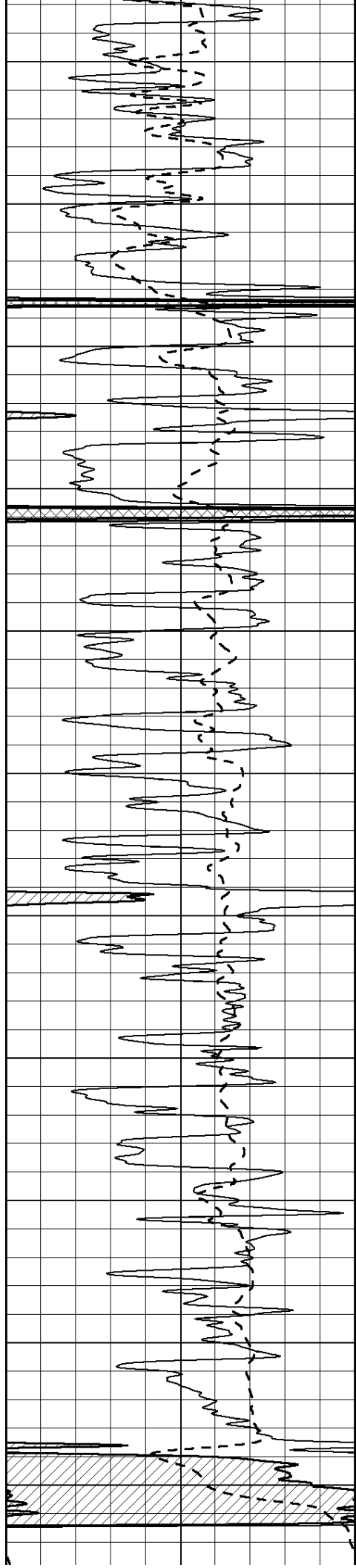
1500











3200

3250

3300

3350

3400

3450

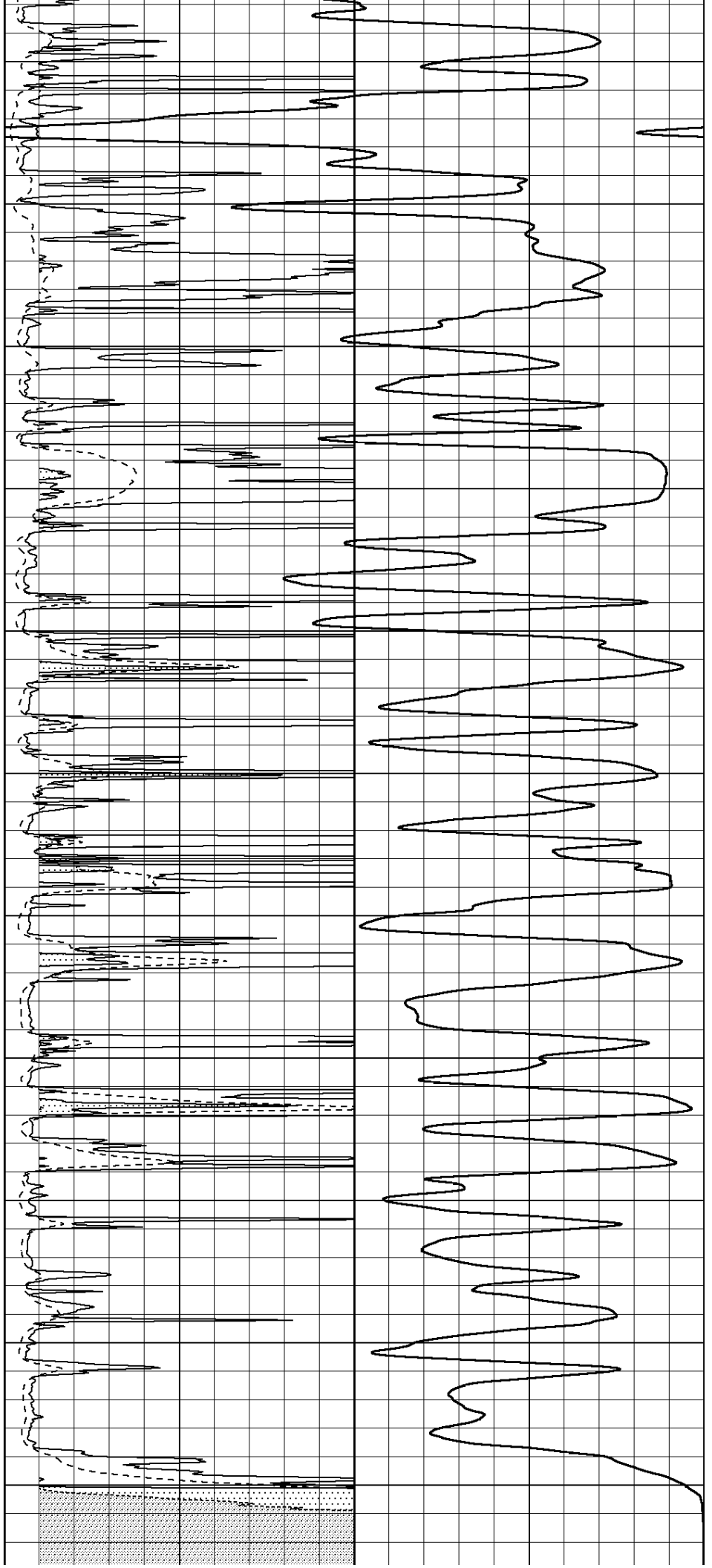
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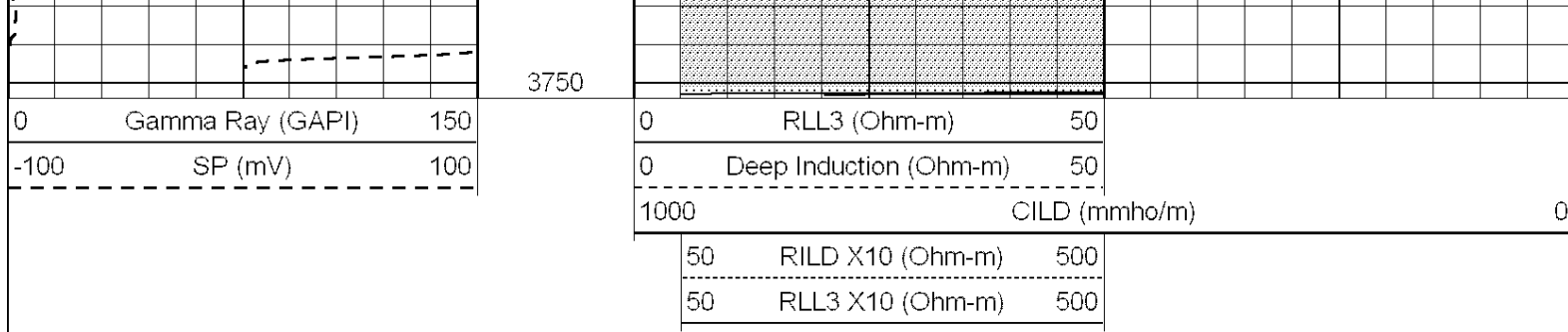
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3600

3650

3700





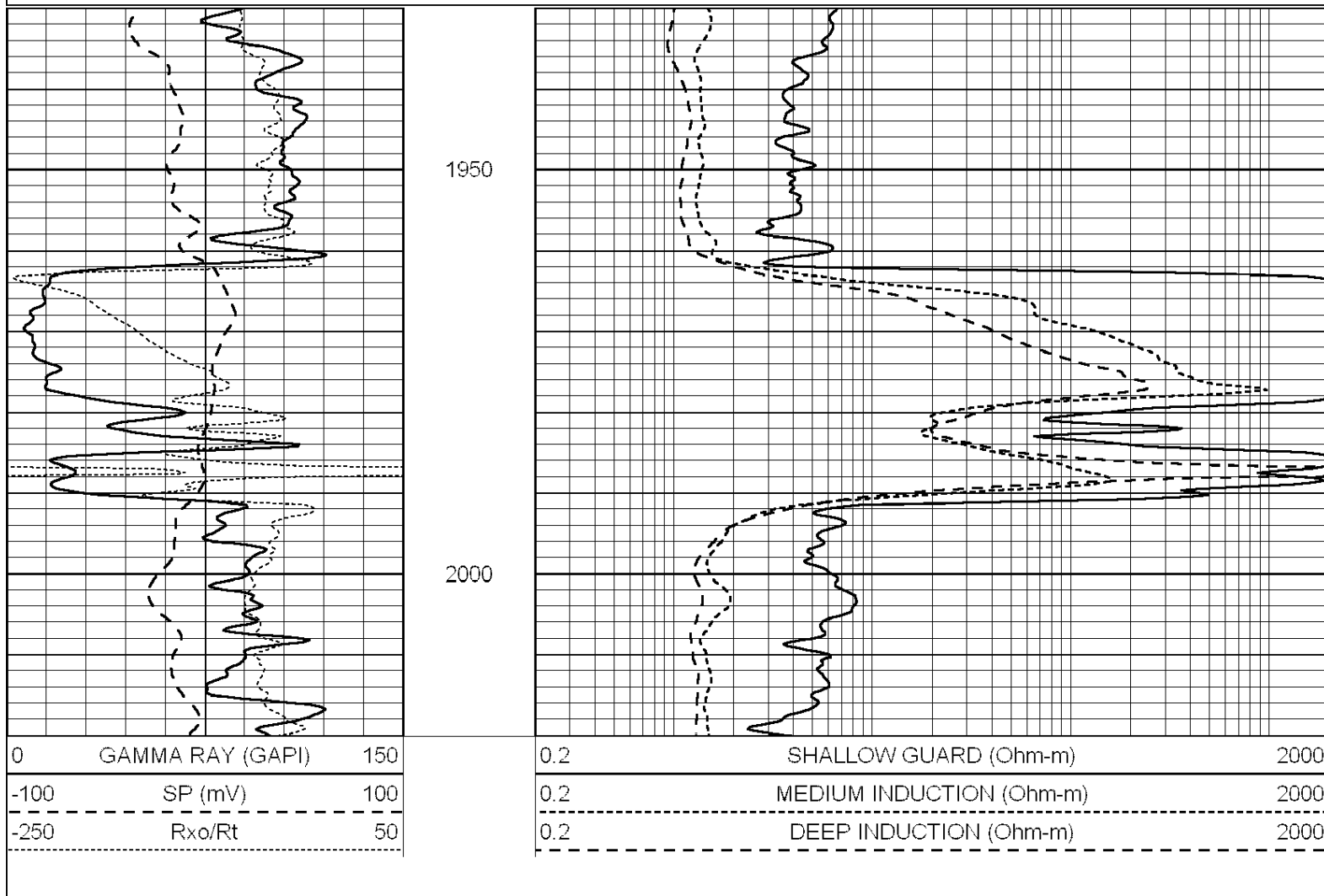
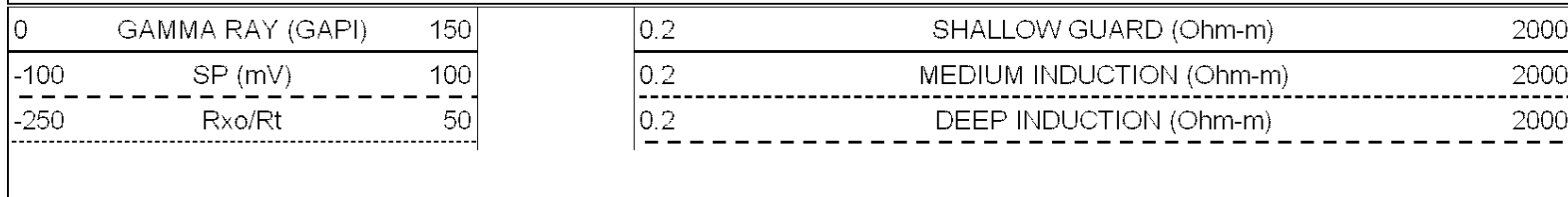


NABORS

COMPLETION
& PRODUCTION
SERVICES CO.

ANHYDRITE

Database File: 012089pe.db
Dataset Pathname: pass3.3
Presentation Format: _dil
Dataset Creation: Tue Nov 12 06:52:19 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

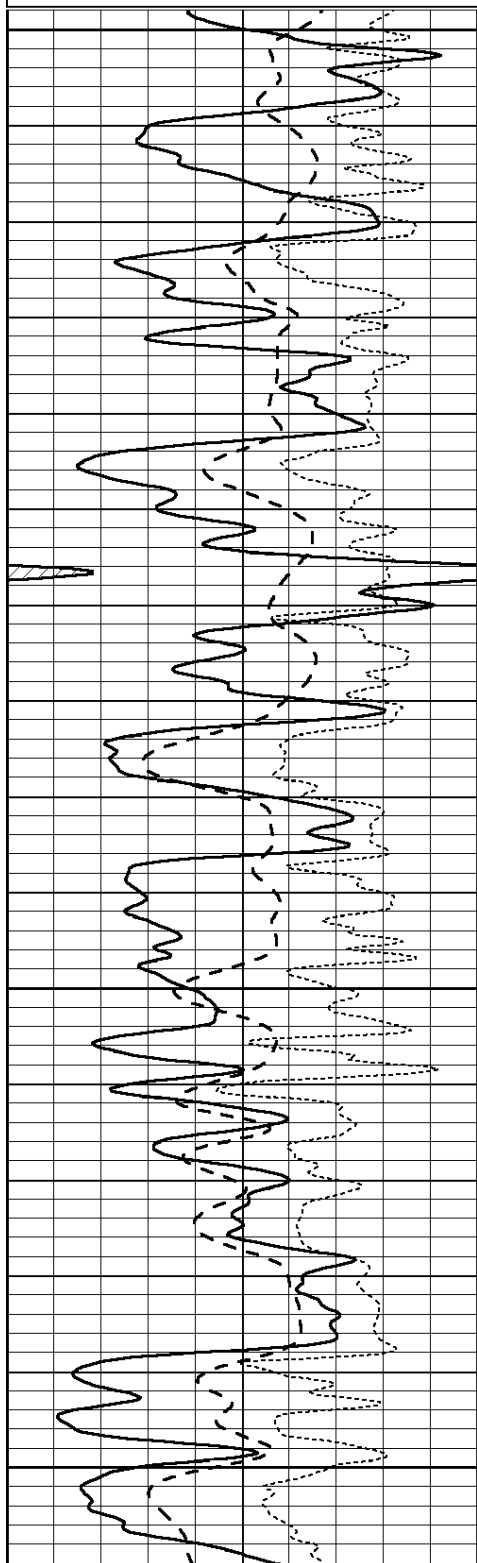


MAIN SECTION

Database File: 012089pe.db
 Dataset Pathname: pass3.1
 Presentation Format: _dil
 Dataset Creation: Tue Nov 12 06:44:33 2013 by Calc Open-Cased 090629
 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

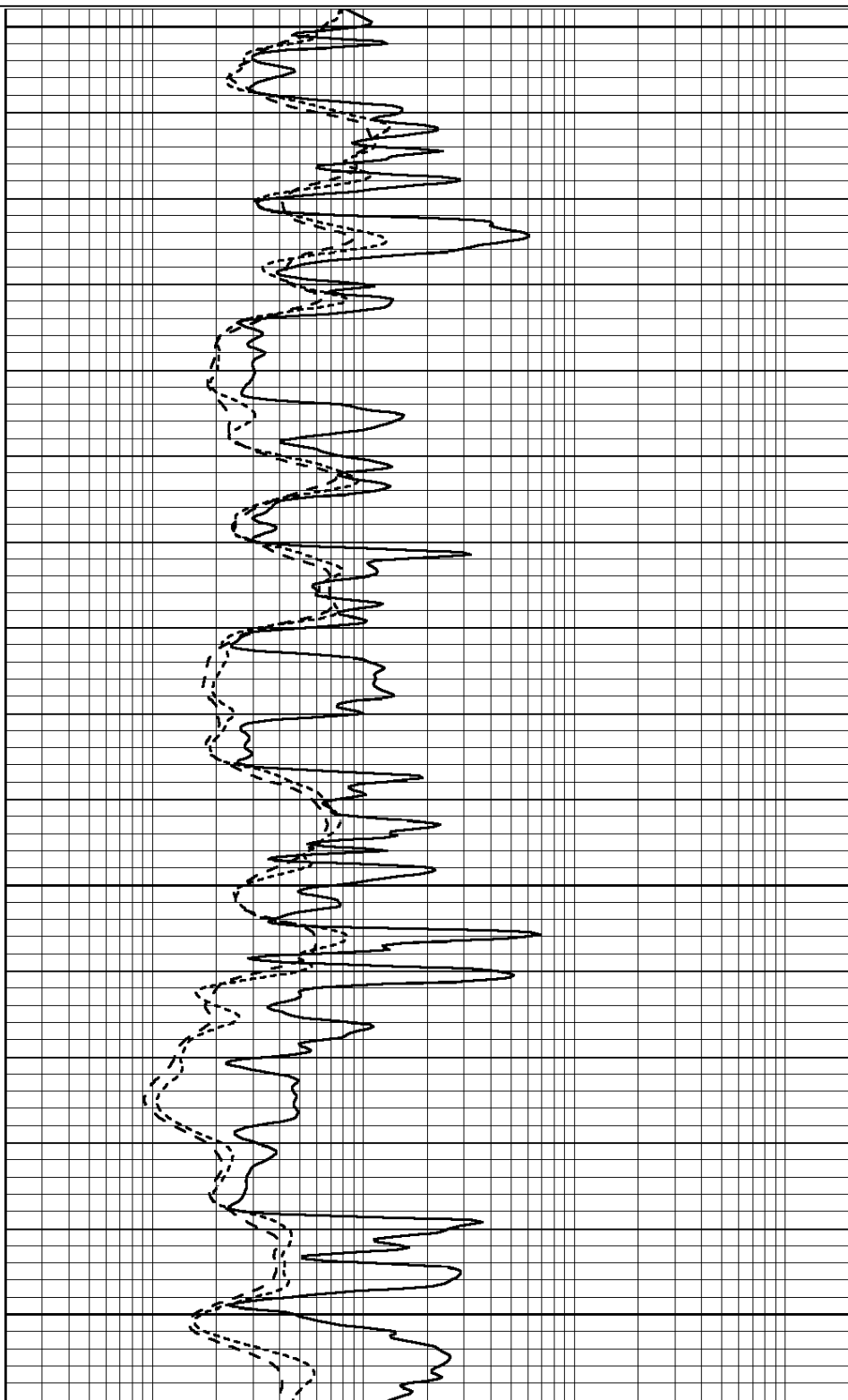


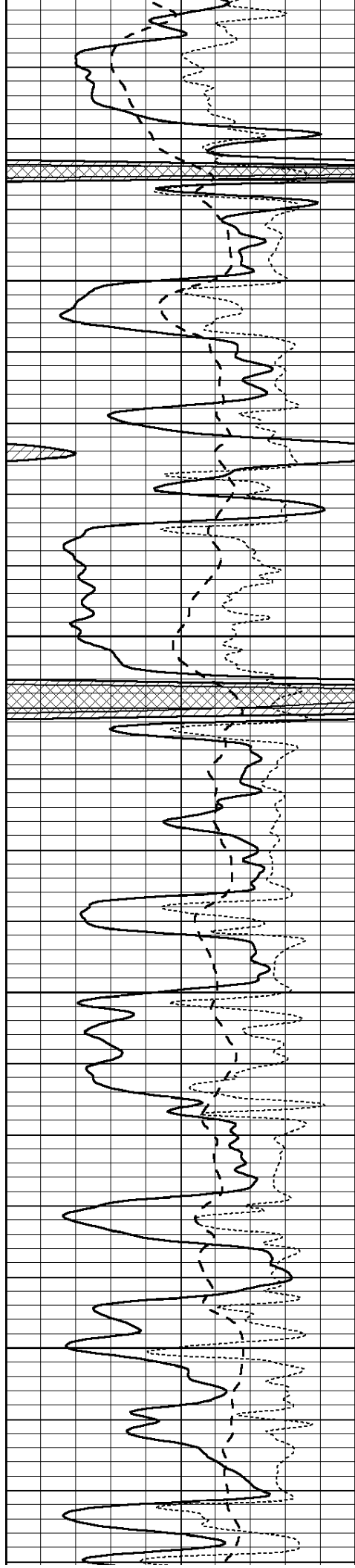
3100

3150

3200

3250



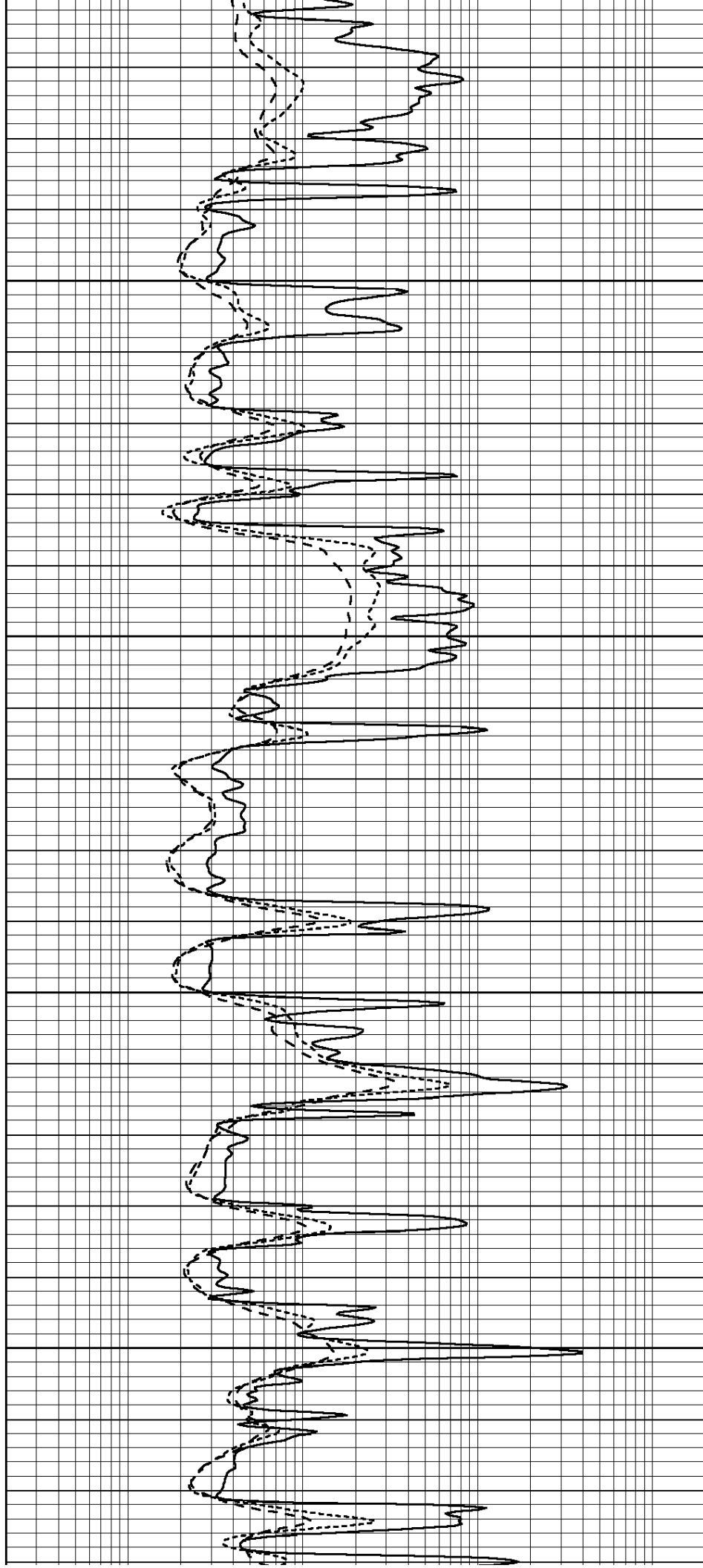


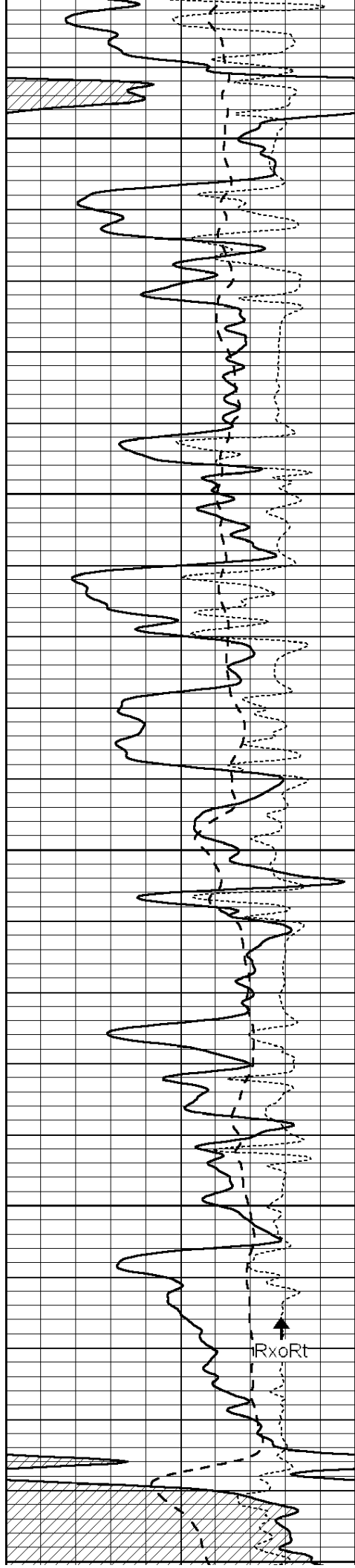
3300

3350

3400

3450





3500

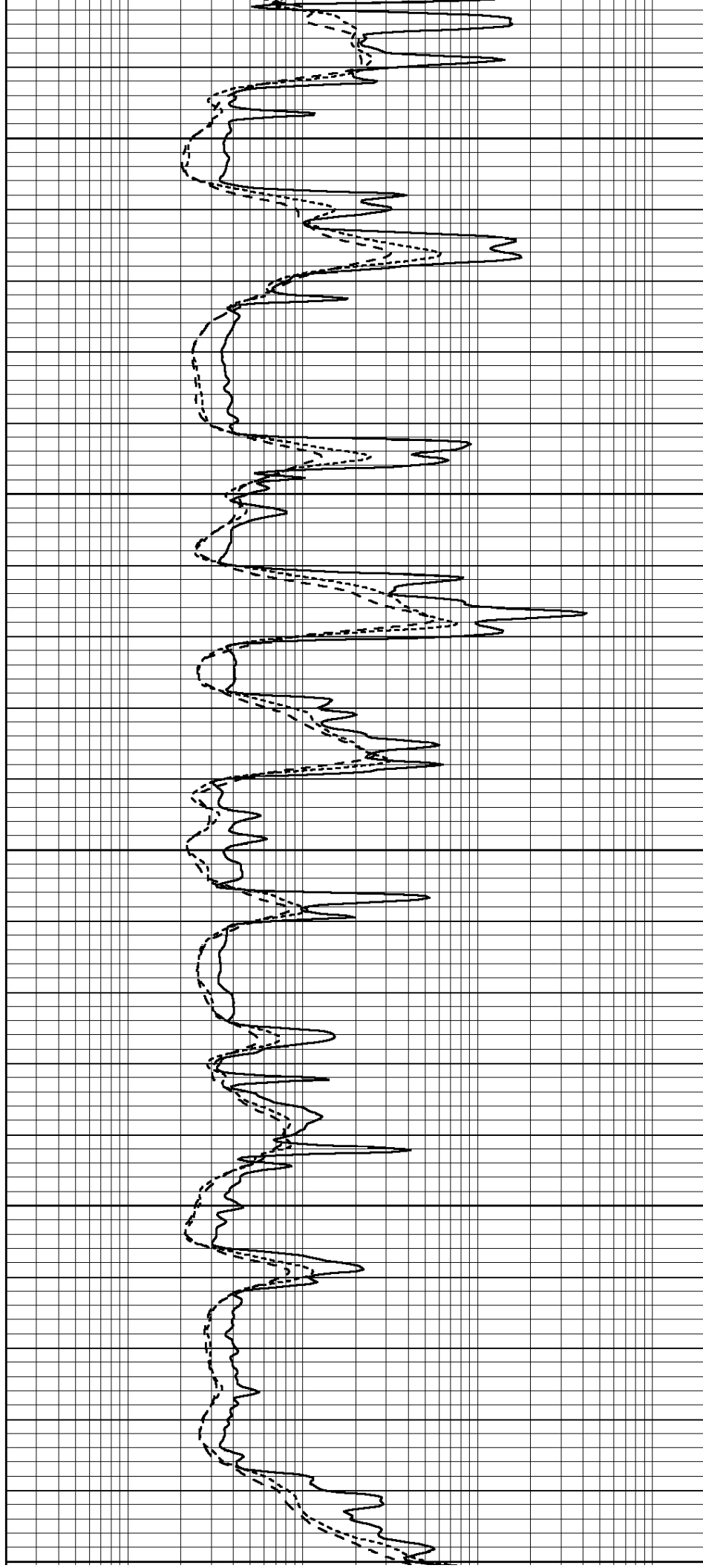
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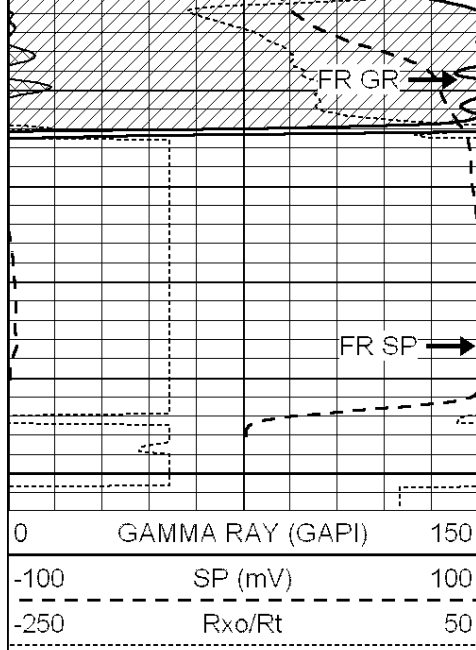
3600

3650

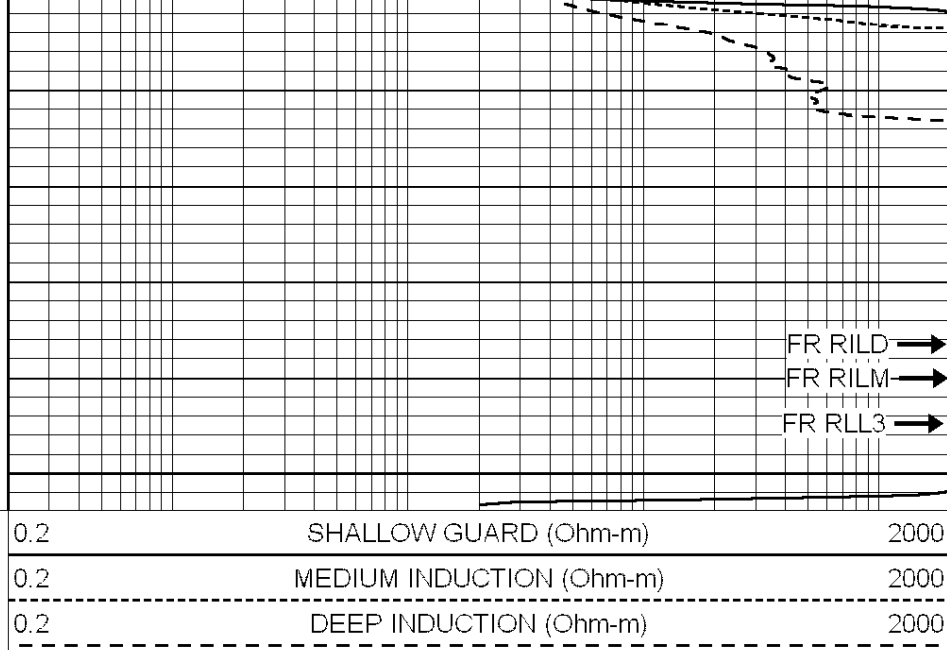
RxoRt

3700



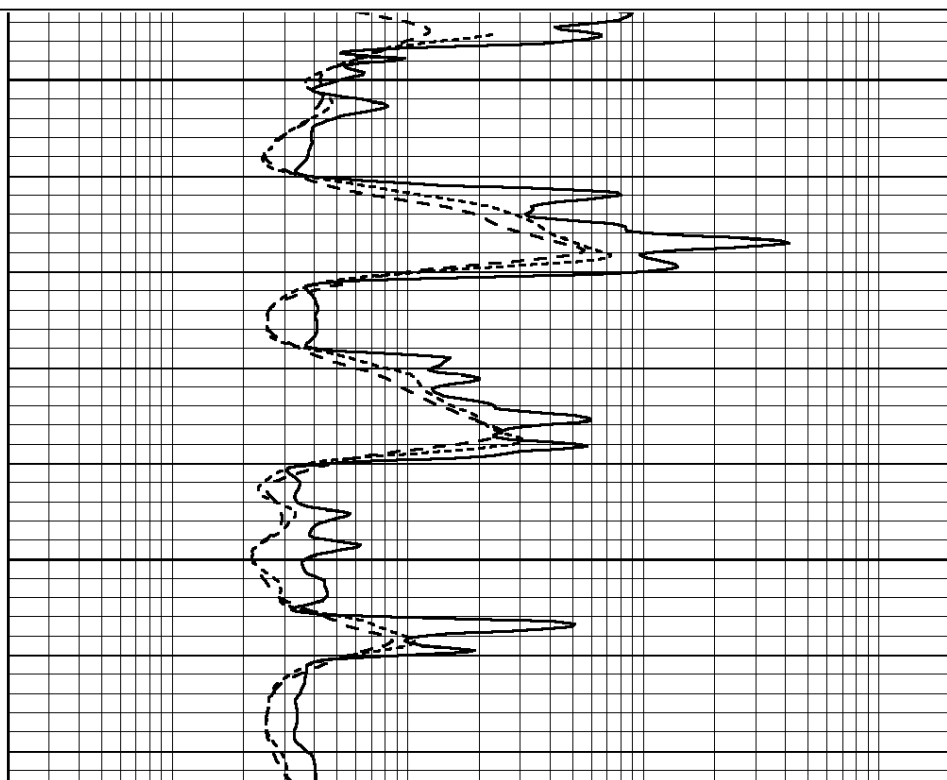
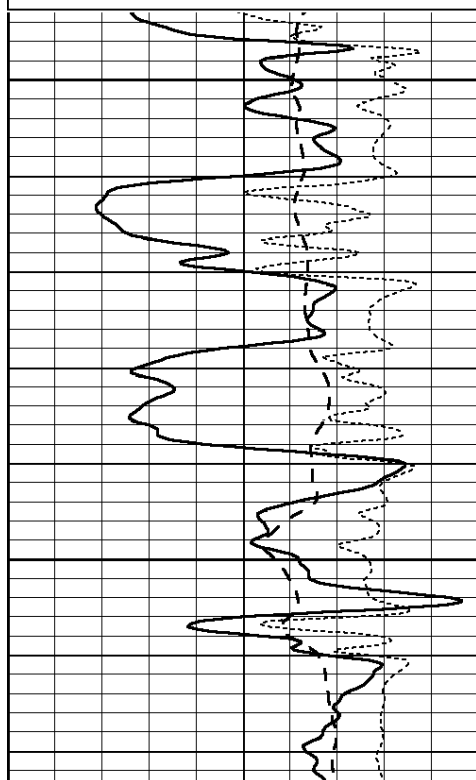
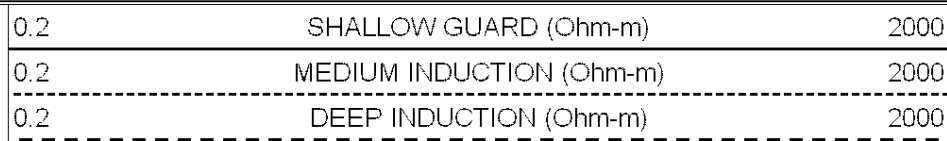
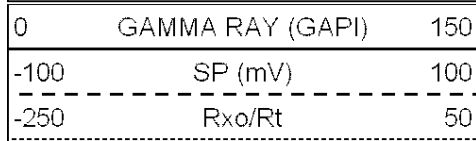


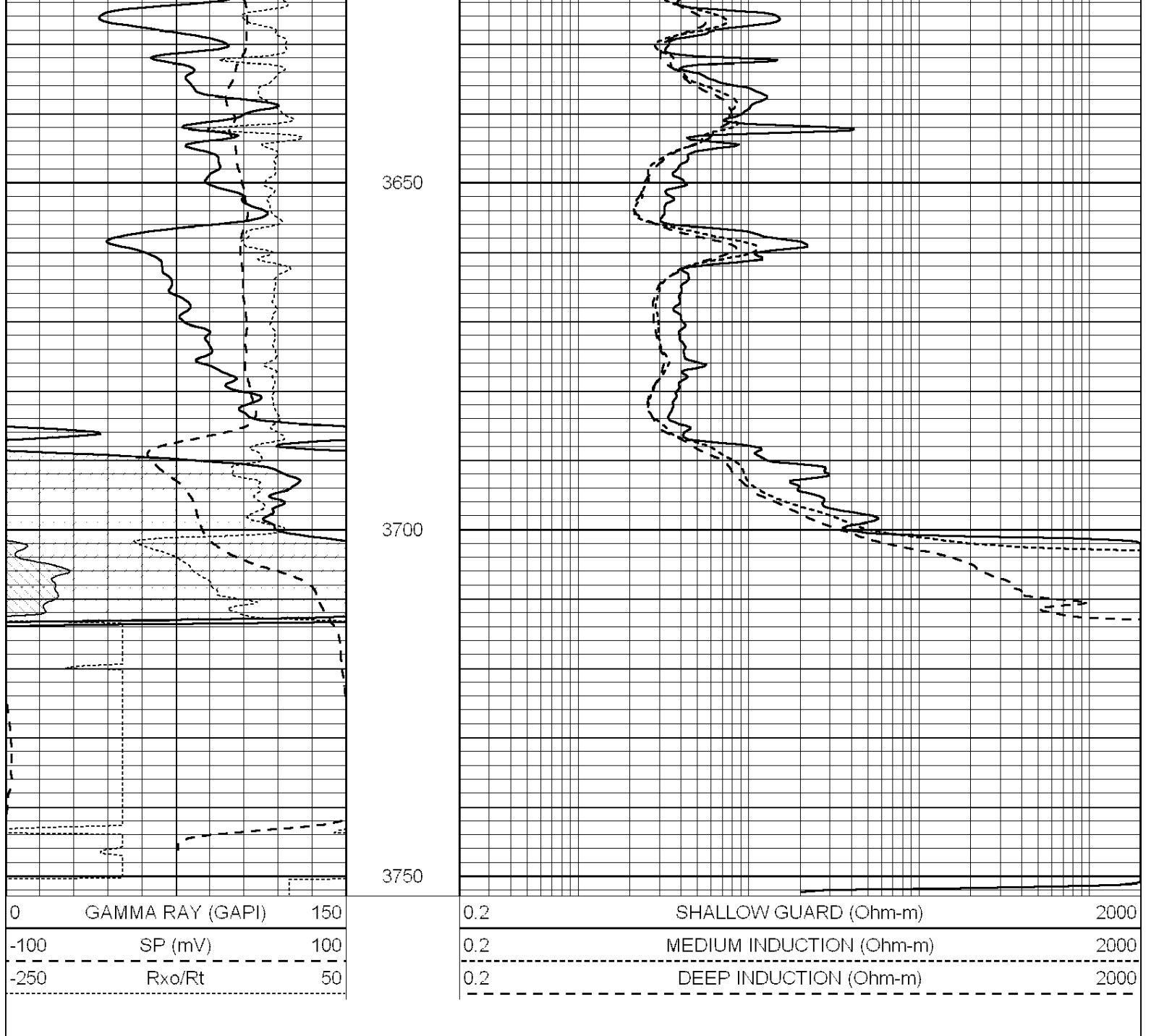
LTD 3747
3750



REPEAT SECTION

Database File: 012089pe.db
Dataset Pathname: pass2.2
Presentation Format: _dil
Dataset Creation: Tue Nov 12 06:41:30 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 012089pe.db
 Dataset Pathname: pass2.2
 Dataset Creation: Tue Nov 12 06:41:30 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

Loop:	Readings			References			Results	
	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	
	Zero	Cal		Zero	Cal		m'	b'
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	
	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: 001 Model: PRB								
Performed Thu Sep 17 09:57:21 2009								
Litho Density Calibration								
	Background	Magnesium		Aluminum		Sandstone		
Window 1	2056.0	9796.8		3673.1		10821.3		cps
Window 2	1920.0	8541.1		3303.5		9307.2		cps
Window 3	1563.1	4735.7		2212.8		5017.5		cps
Window 4	466.0	466.1		465.6		471.5		cps
Long Space	0.0	6621.1		1383.5		7387.2		cps
Short Space	2.5	2361.7		1523.2		2534.0		cps
Rho		1.7100		2.5900		1.3800		g/cc
Pe				2.5700		1.5500		
Rib Angle	: 44.4	Rib Slope	: 0.978	Density/Spine Ratio			: 0.541	
Spine Angle	: 74.4	Spine Slope	: 3.570	Spine Intercept			: -18.9	
Caliper								
	Readings	Reference						
Low Ref	3.1	8.4						
High Ref	4.3	14.3						
	Gain: 4.6			Offset: -5.5				
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:	080327		
Tool Model:	Probe1		
Performed:	Sun Jun 13 14:33:21 1993		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.6000	GAPI/cps	