



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

DUAL INDUCTION LOG

Company		SHELBY RESOURCES, LLC.	
Well		SCHLESSIGER #1-25	
Field		WILDCAT	
County		BARTON	
State		KANSAS	
Location:		APL # : 15-009-25763-0000	
SEC 25 TWP 17S RGE 14W		CDL/CNL MEL	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 9' A.G.L.	
Drilling Measured From		KELLY BUSHING	
Elevation		1872	
Date		10/17/12	
Run Number		ONE	
Depth Driller		3475	
Depth Logger		3474	
Bottom Logged Interval		3472	
Top Log Interval		00	
Casing Driller		8 5/8"@848'	
Casing Logger		848	
Bit Size		7 7/8"	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.3/58	
pH / Fluid Loss		10.5/8.8	
Source of Sample		FLOWLINE	
Rm @ Meas. Temp		.800@80F	
Rmt @ Meas. Temp		.600@80F	
Rmc @ Meas. Temp		.960@80F	
Source of Rmt / Rmc		MEASUREMENT	
Rm @ BHT		.577@111F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom		2:45 P.M.	
Maximum Recorded Temperature		111F	
Equipment Number		4010	
Location		HAYS, KANSAS	
Recorded By		JEFF LUEBBERS	
Witnessed By		KEITH REAVIS	
		JEREMY SCHWARZ	

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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
HOISINGTON, KS., 1W. OF "S' CURVE ON HWY 4 TO "NW 20 AVE.", 1/2N., W. INTO

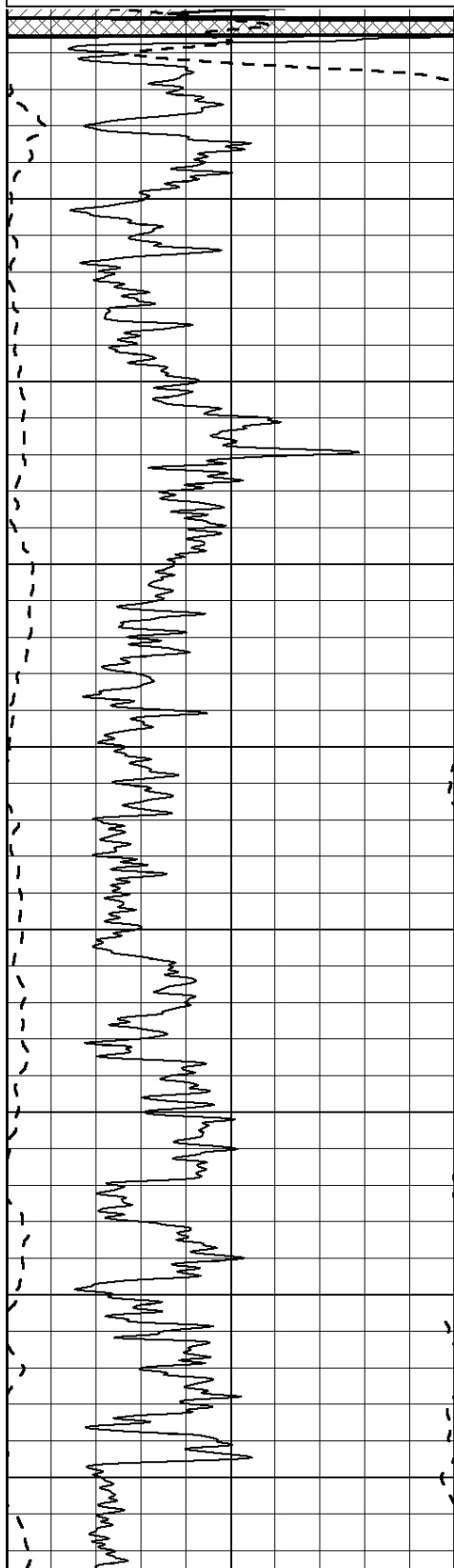
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 Dataset Pathname: pass3.7
 Presentation Format: dil2
 Dataset Creation: Wed Oct 17 15:53:33 2012
 Charted by: Depth in Feet scaled 1:600

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

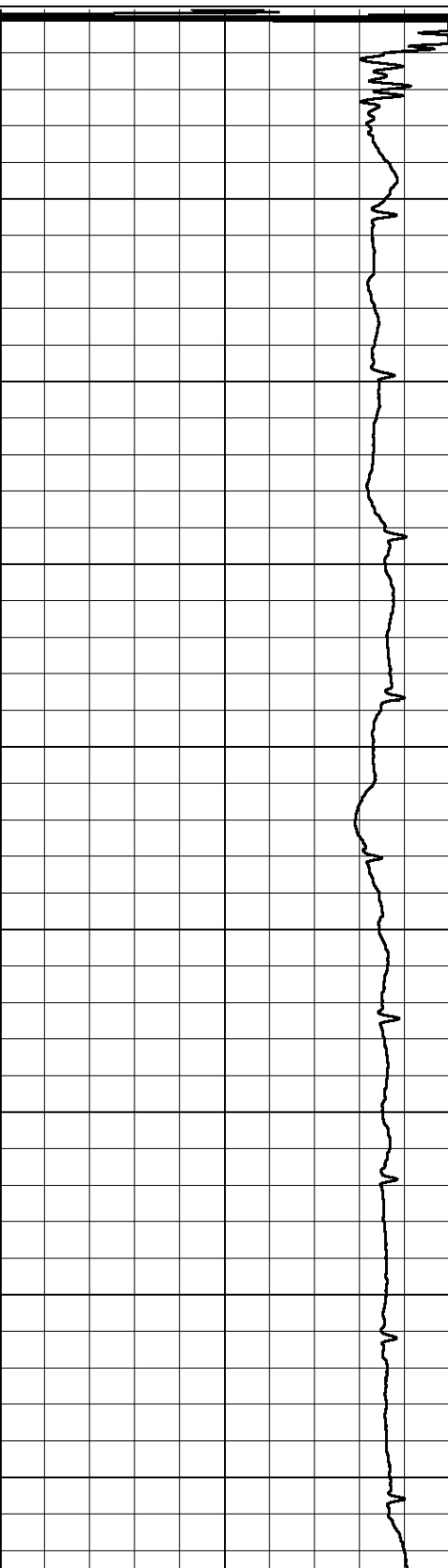
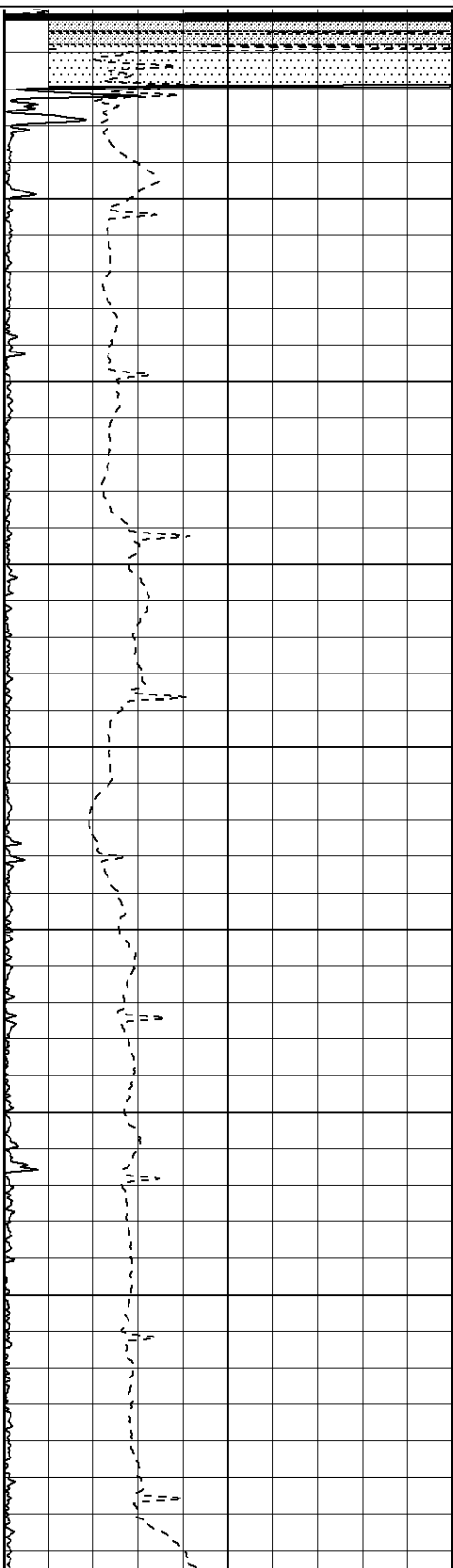
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0	RILD (Ohm-m)	50

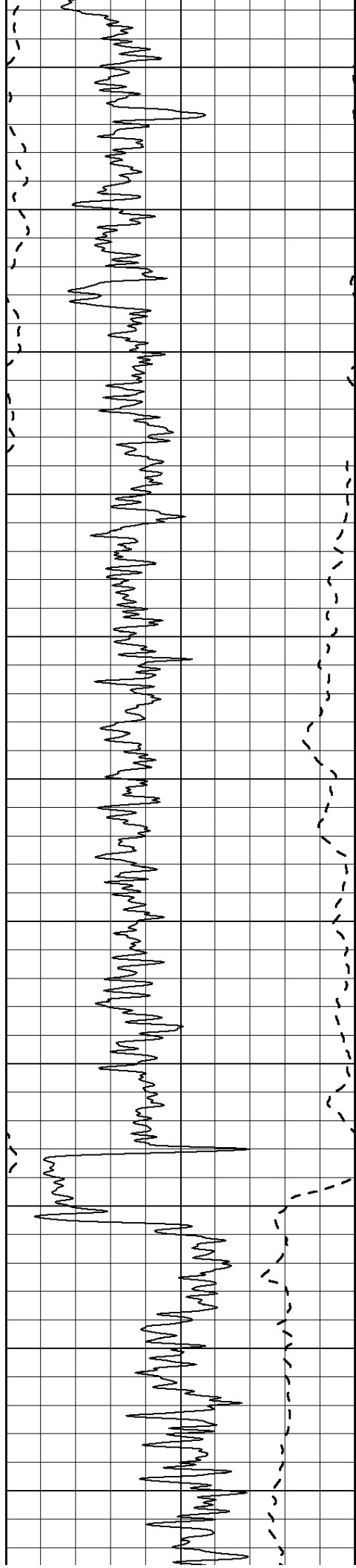
1000	CILD (mmho/m)	0
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50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500



0
50
100
150
200
250
300
350
400





450

500

550

600

650

700

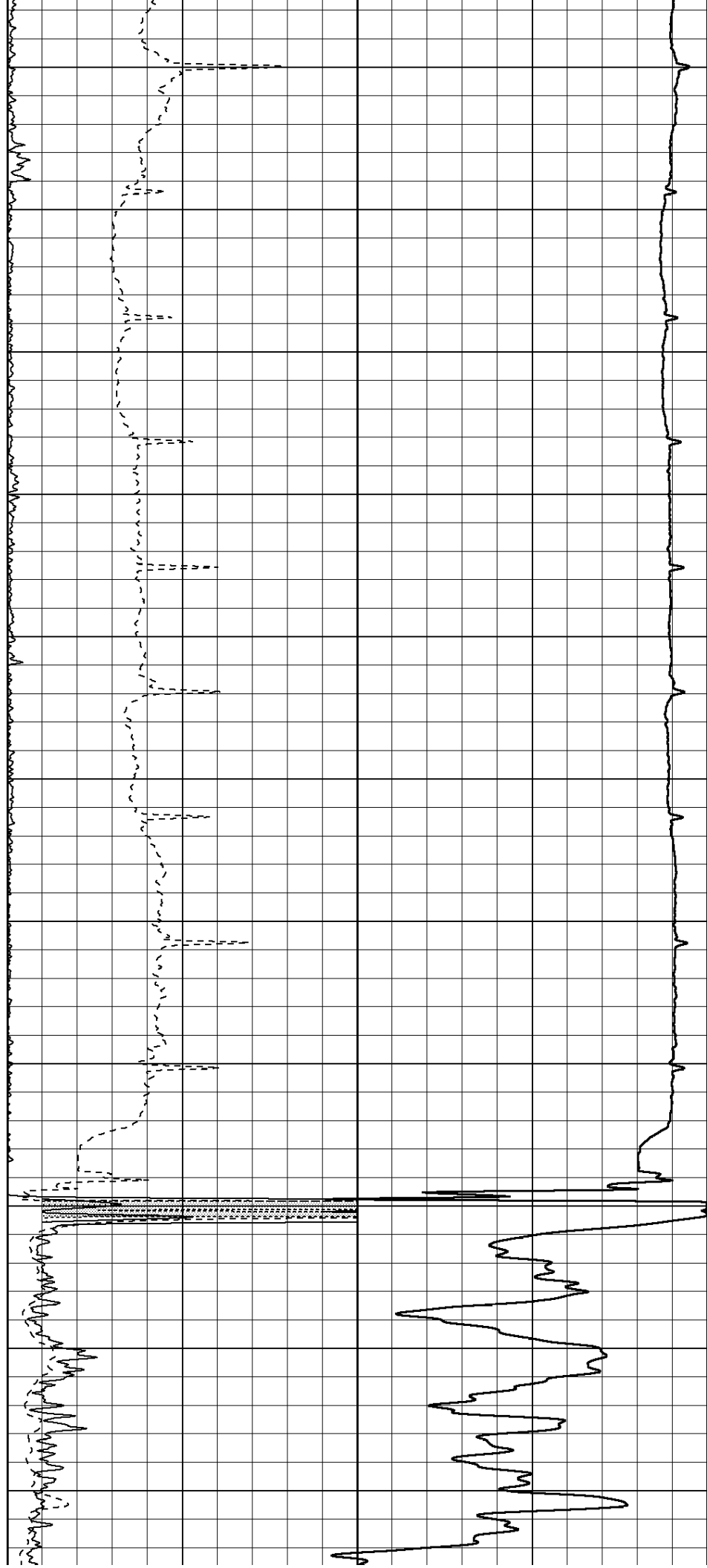
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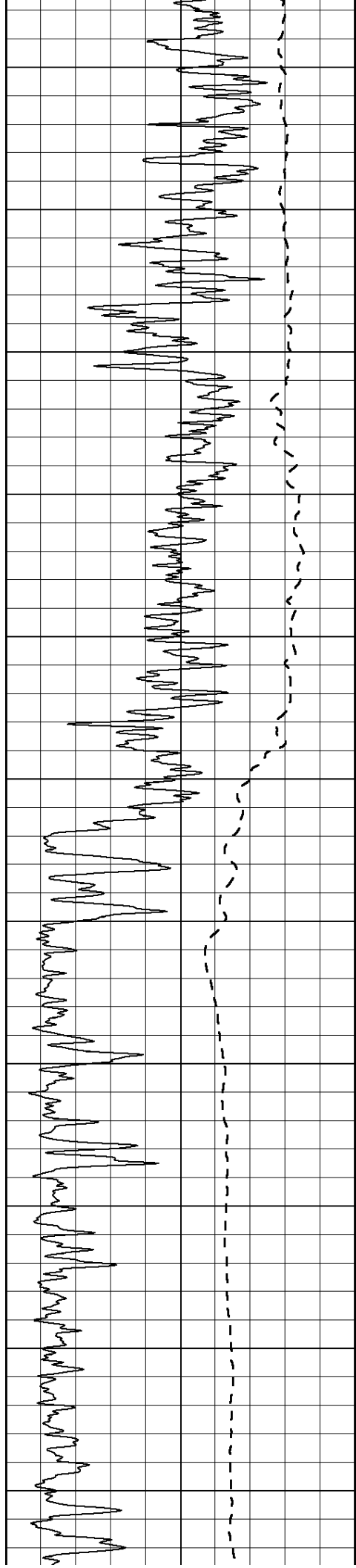
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850

900

950





1000

1050

1100

1150

1200

1250

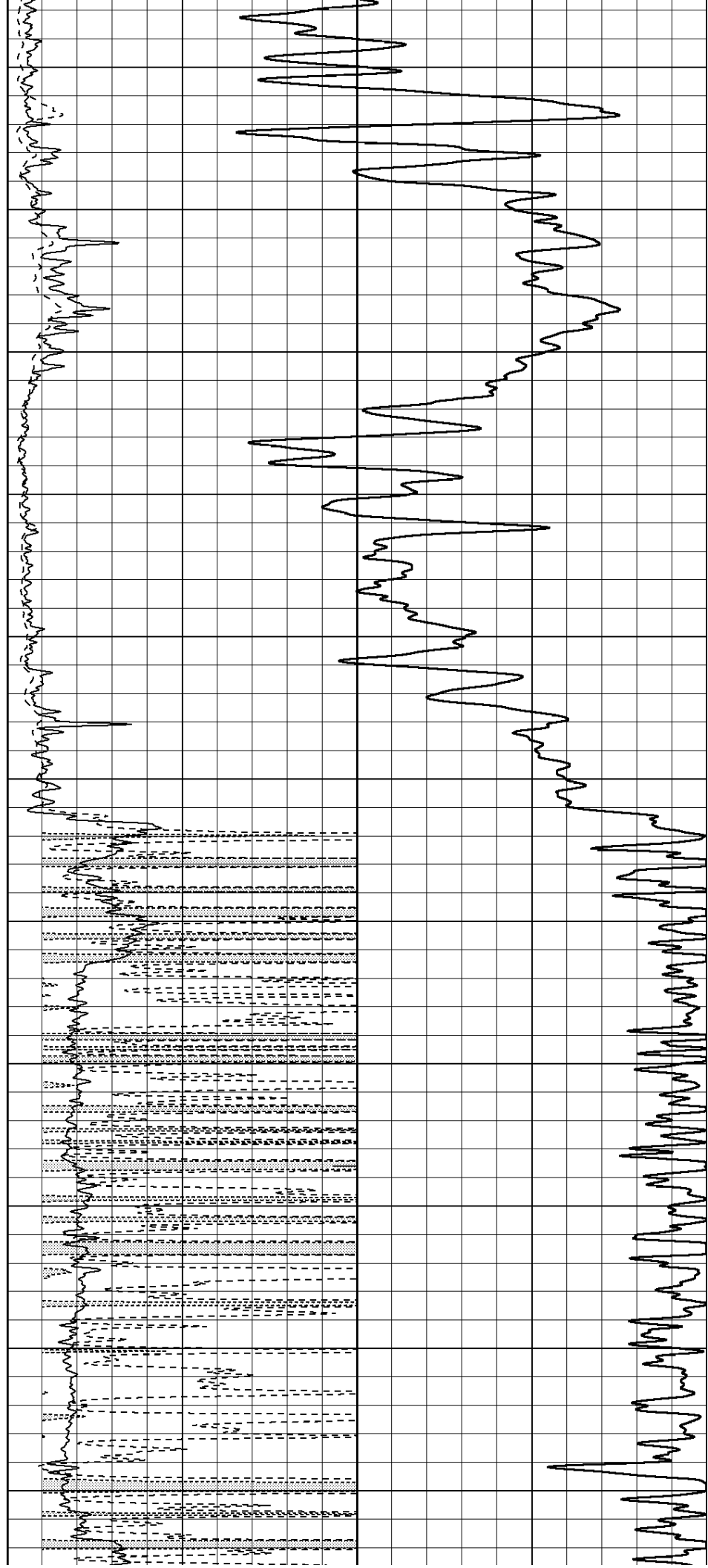
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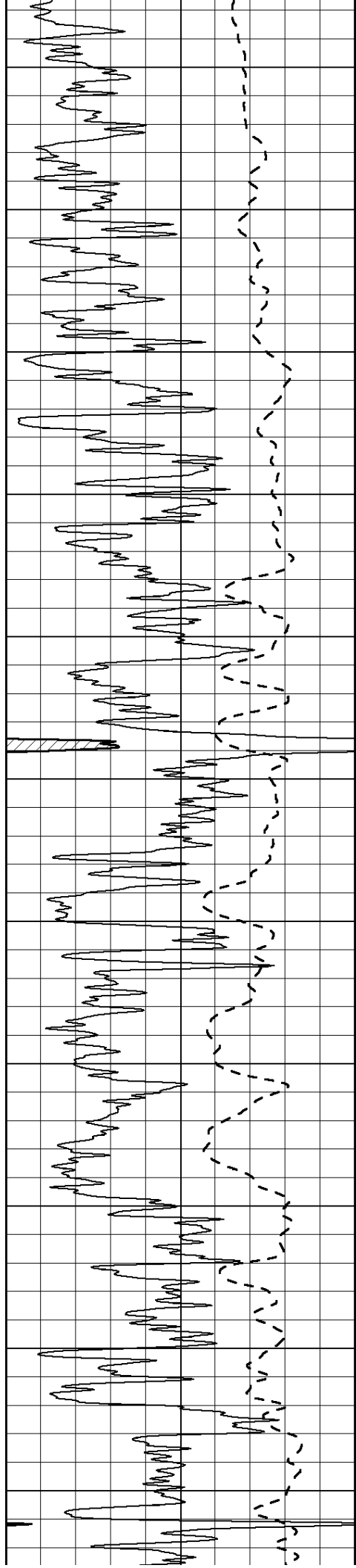
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1400

1450

1500





1550

1600

1650

1700

1750

1800

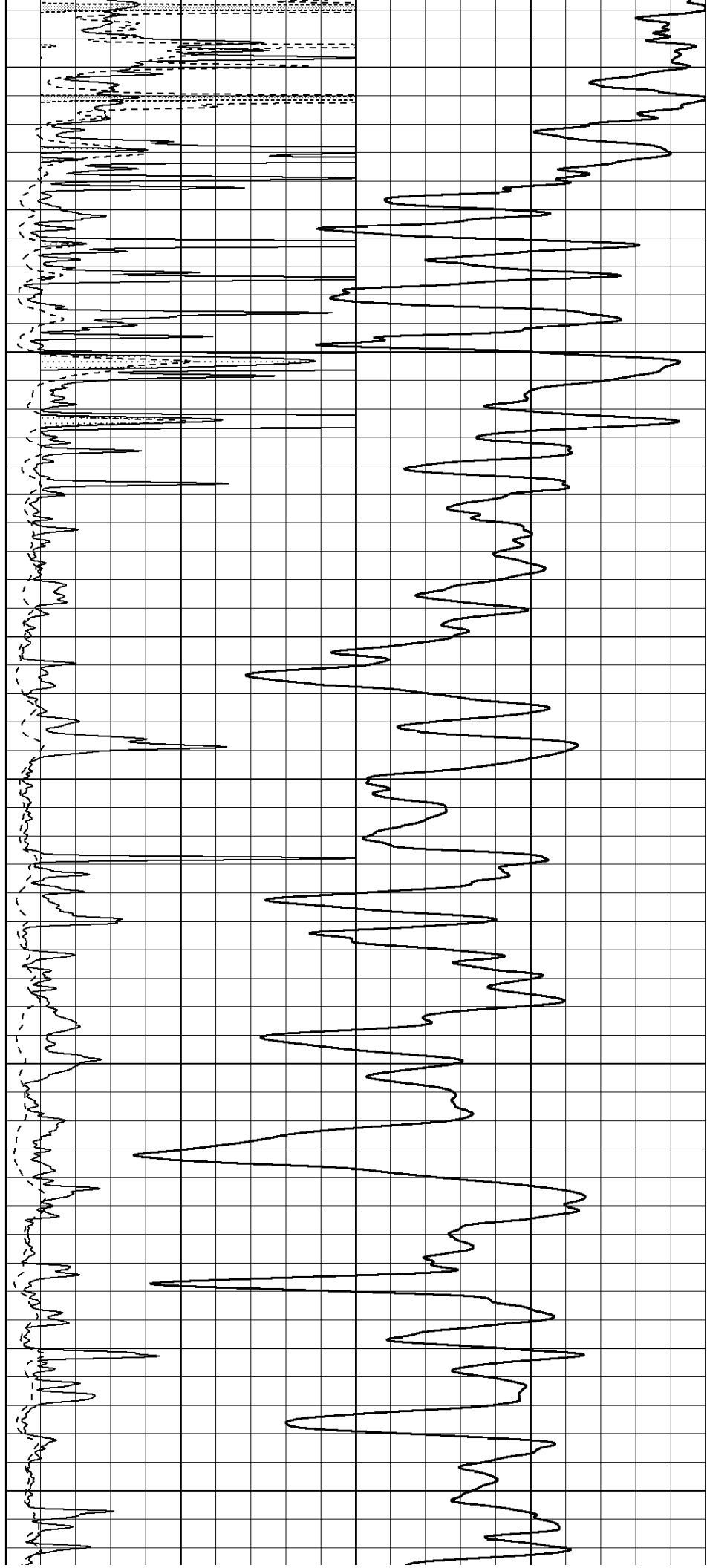
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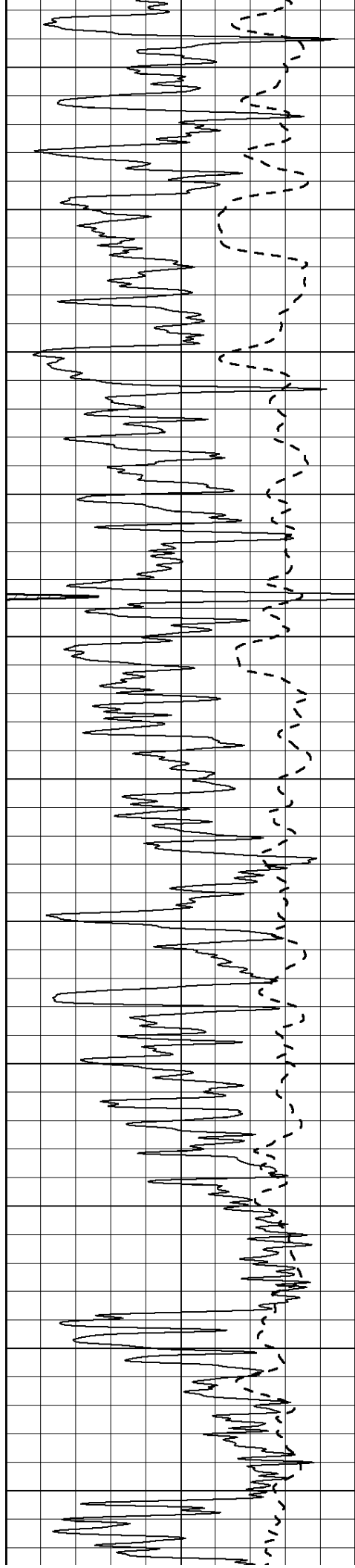
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1950

2000

2050





2100

2150

2200

2250

2300

2350

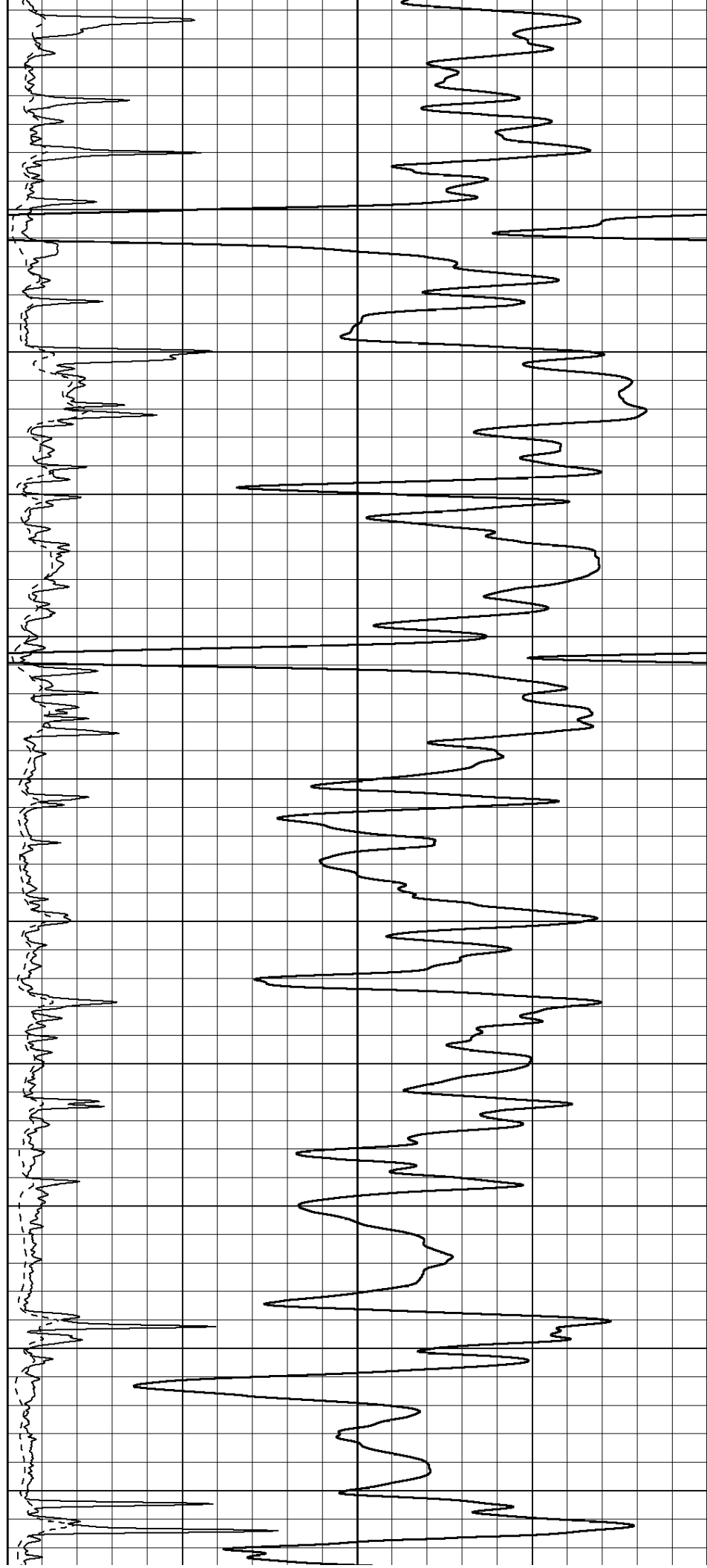
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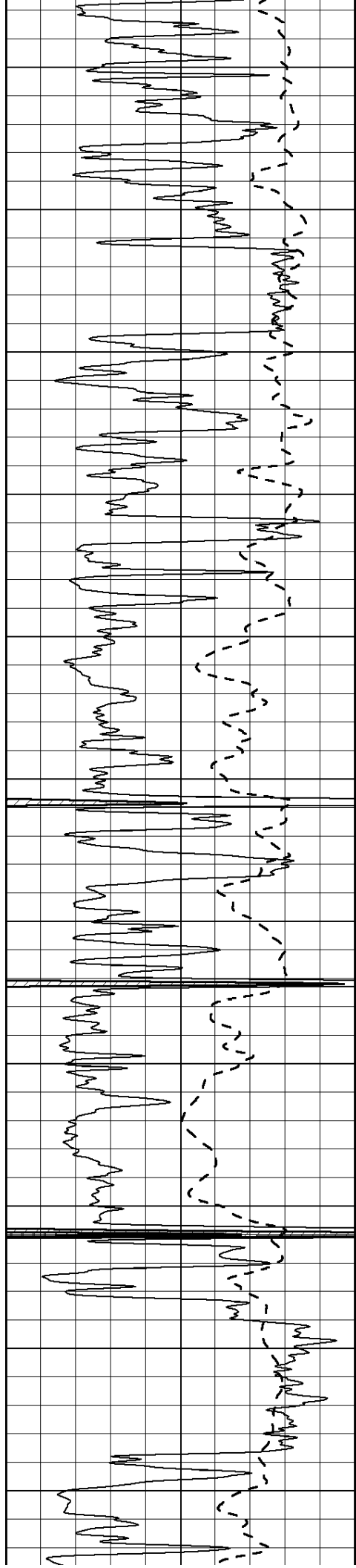
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2500

2550

2600





2650

2700

2750

2800

2850

2900

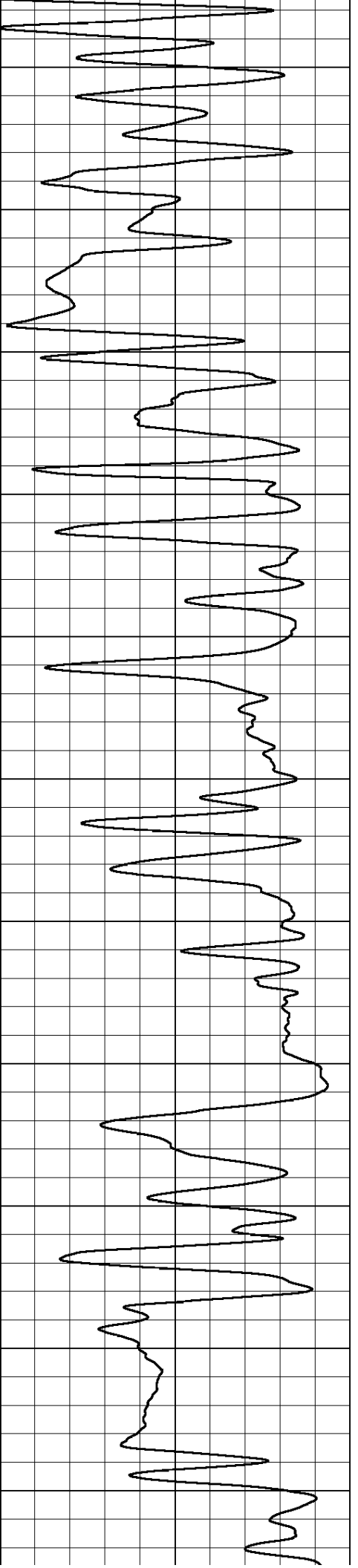
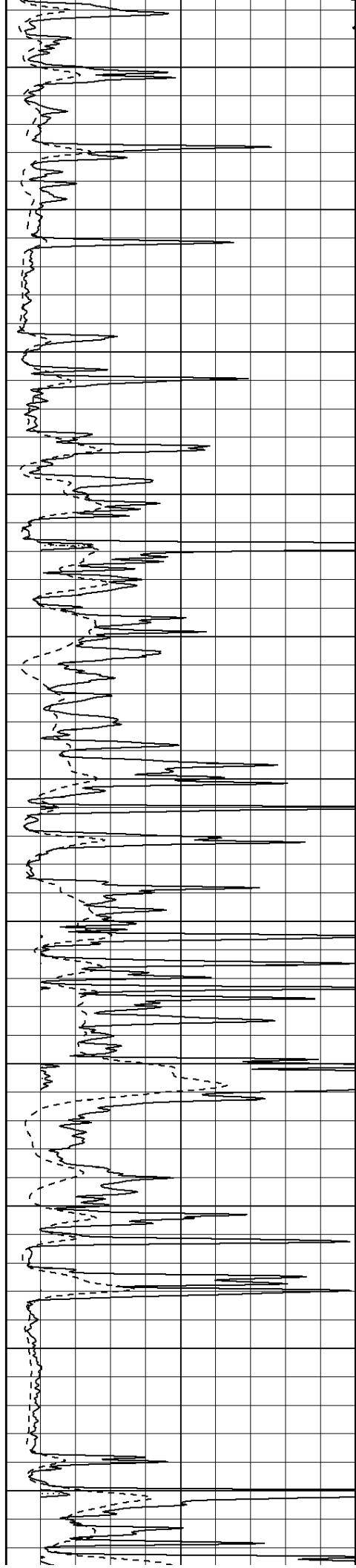
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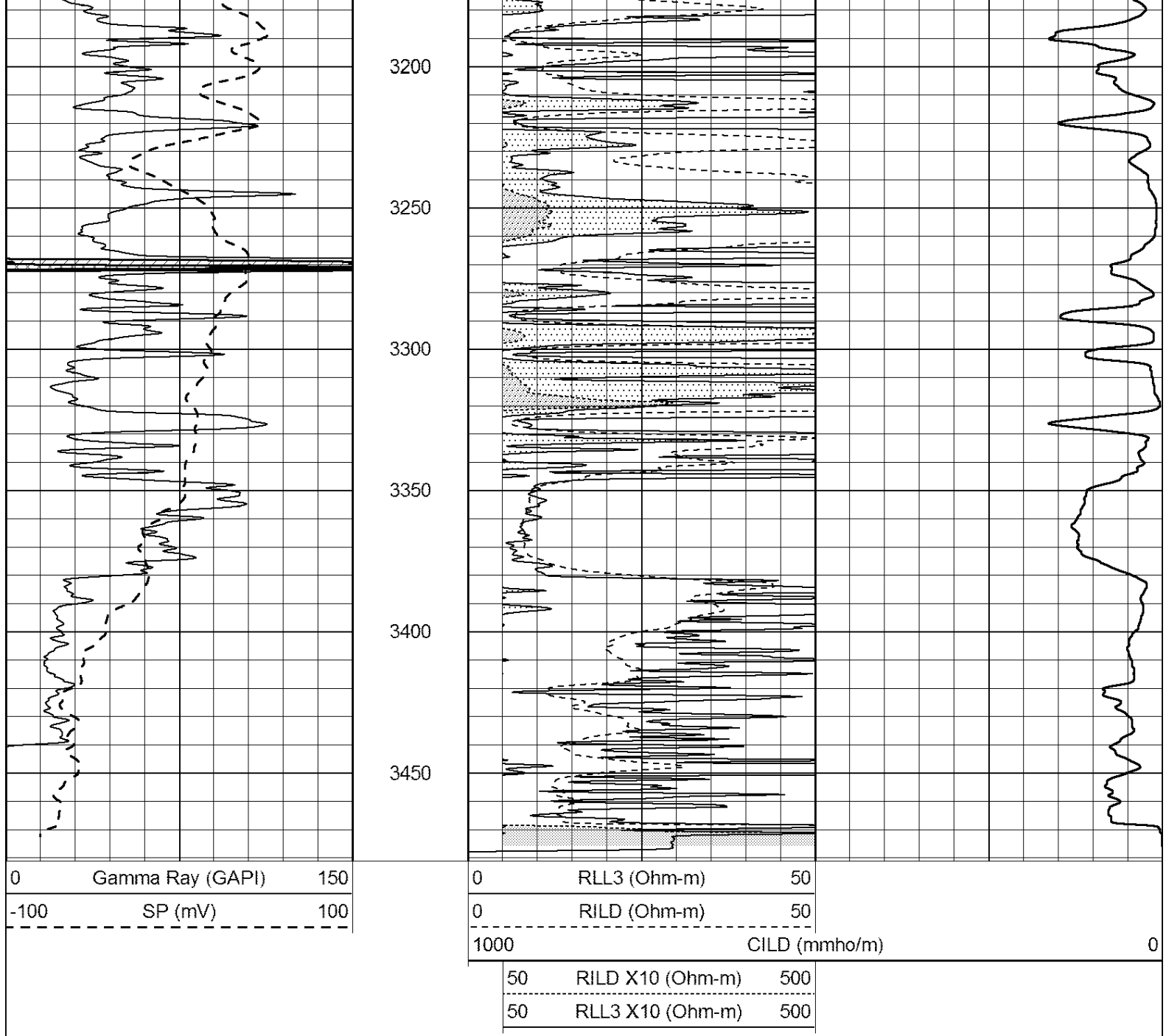
3000

3050

3100

3150





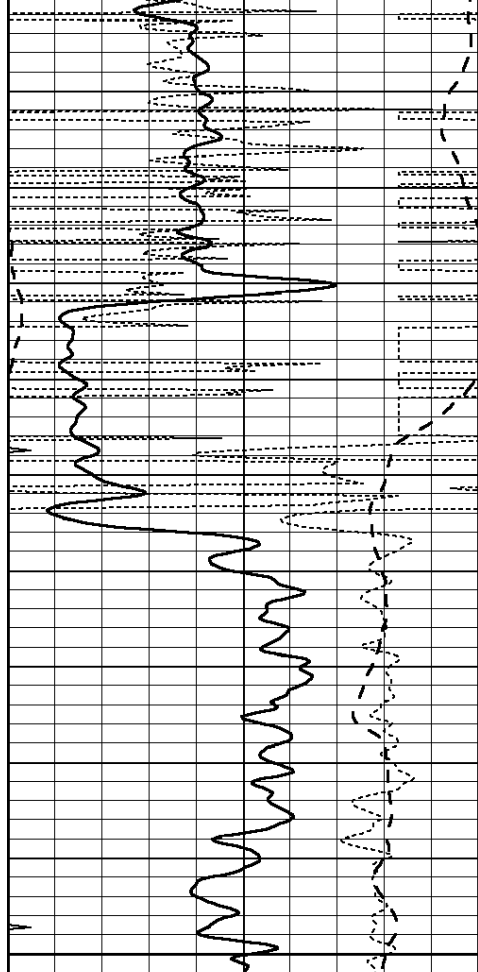
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ANHYDRITE

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Dataset Pathname: pass3.8
Presentation Format: dil
Dataset Creation: Wed Oct 17 16:23:47 2012
Charted by: Depth in Feet scaled 1:240

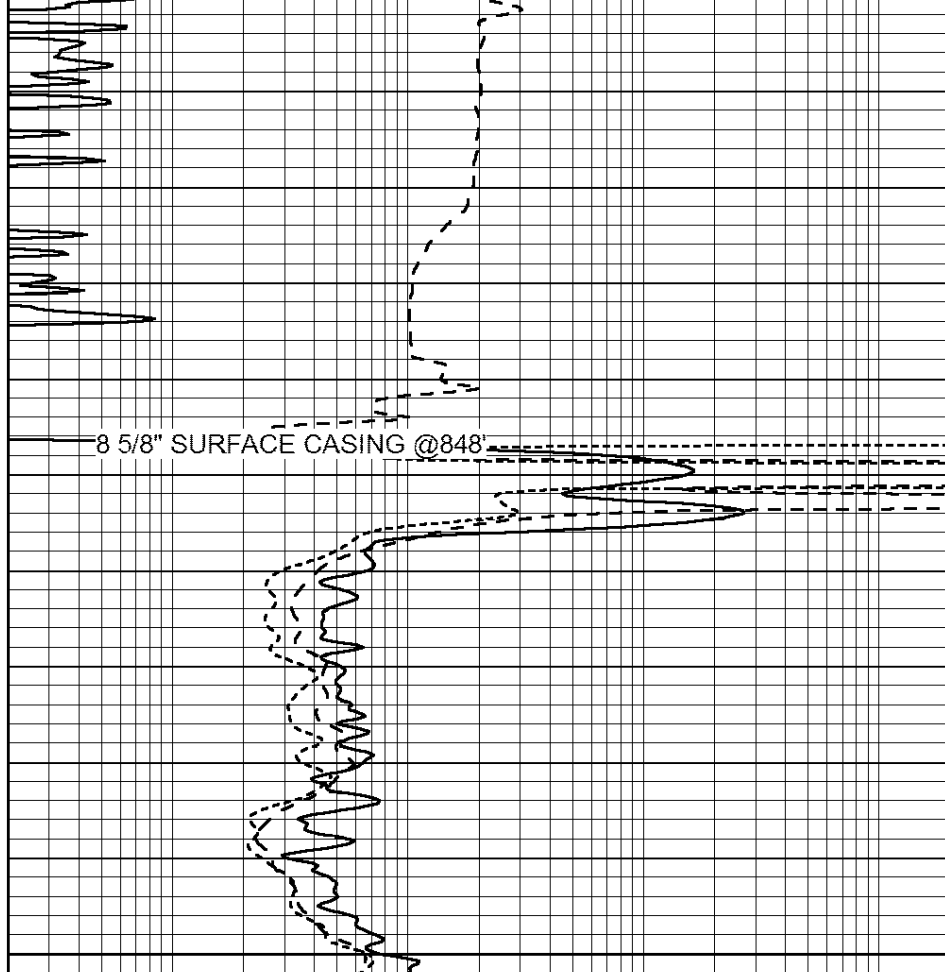
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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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



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

500
850
900



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

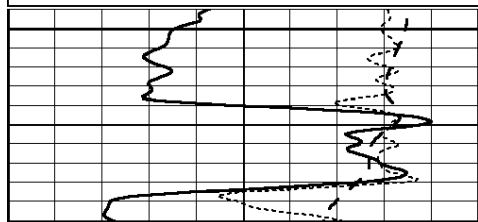


MAIN SECTION

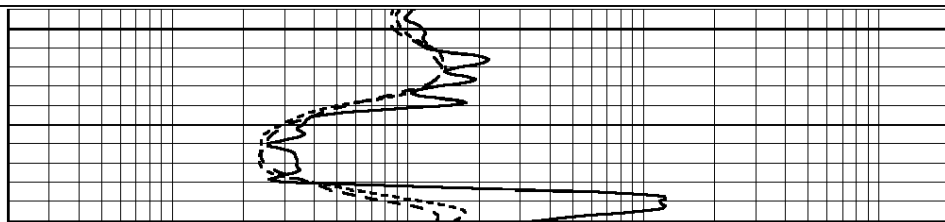
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Dataset Pathname: pass3.7
Presentation Format: dil
Dataset Creation: Wed Oct 17 15:53:33 2012
Charted by: Depth in Feet scaled 1:240

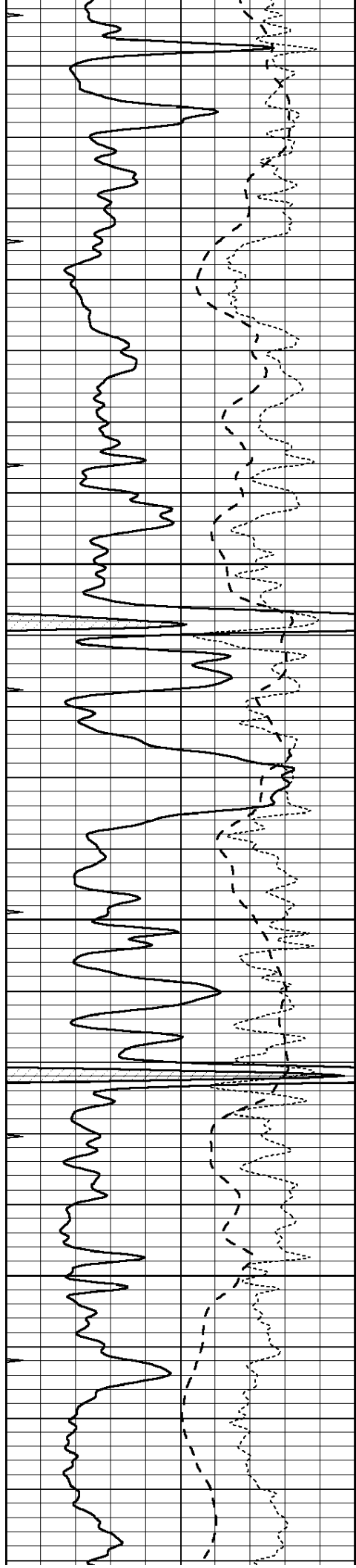
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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



2800



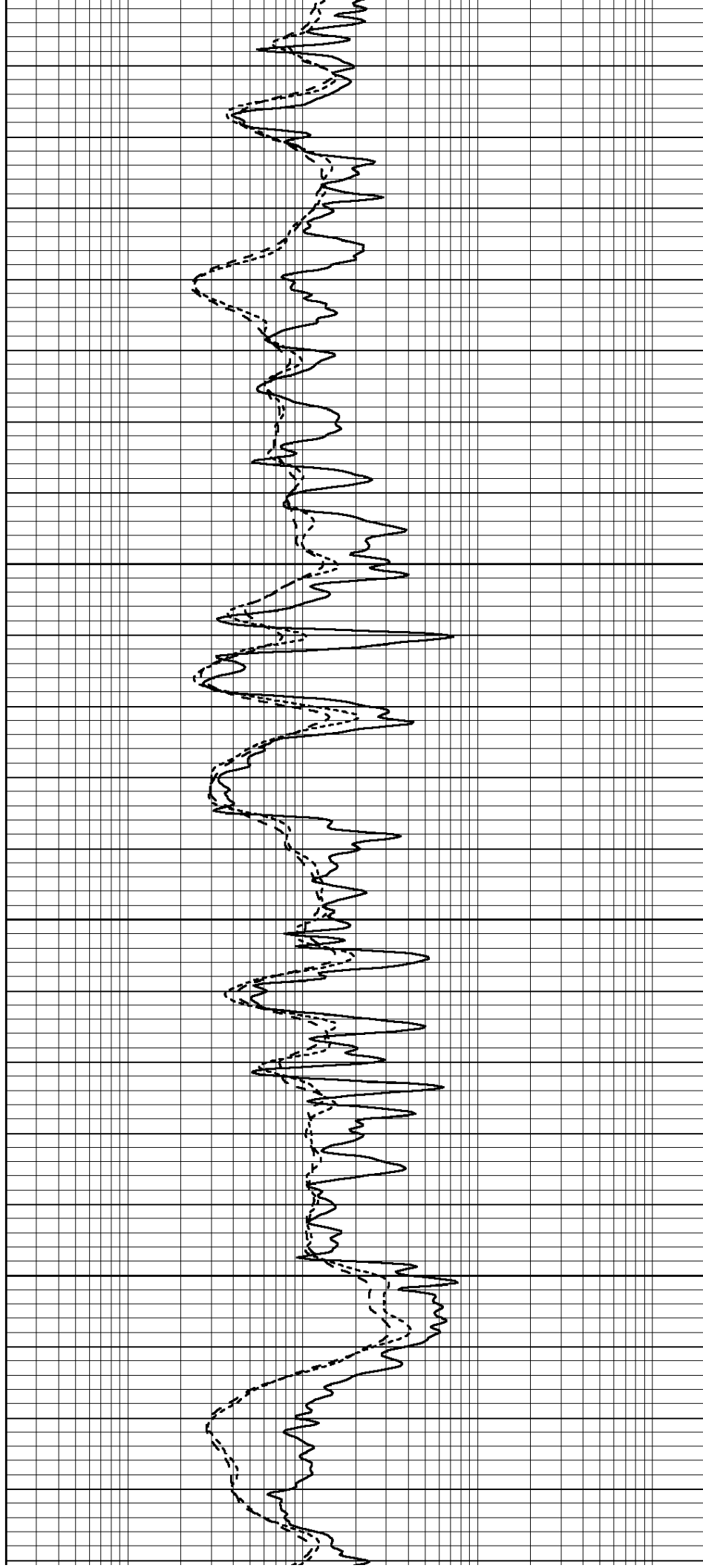


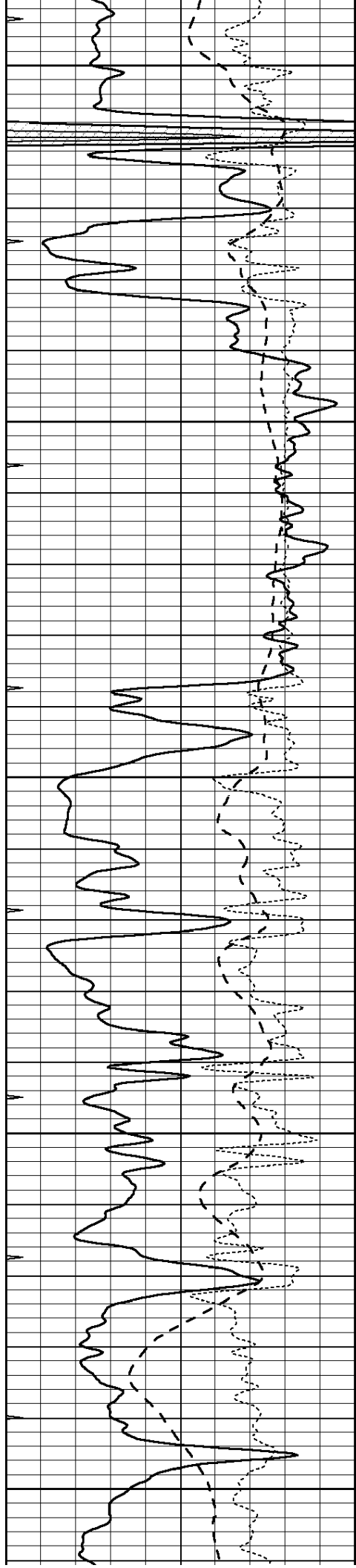
2850

2900

2950

3000





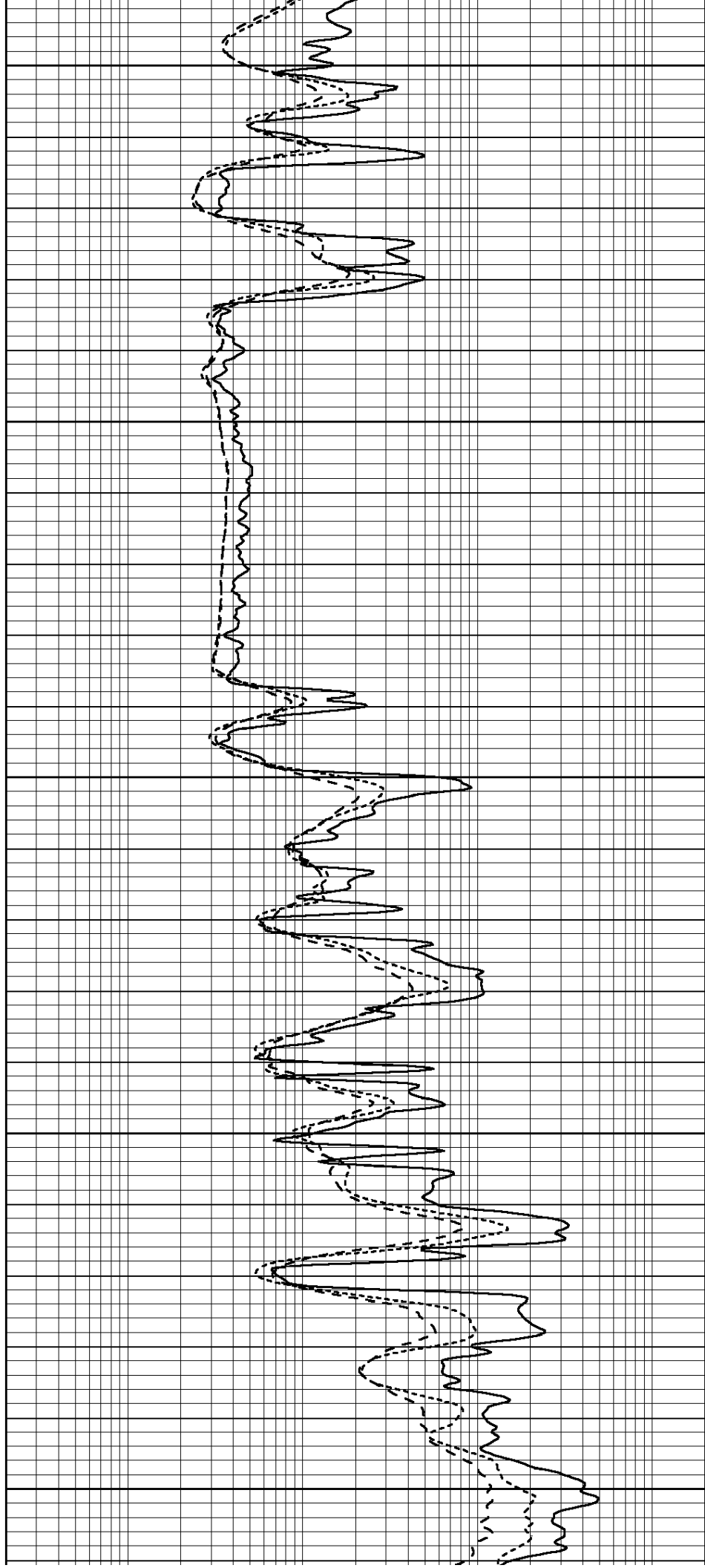
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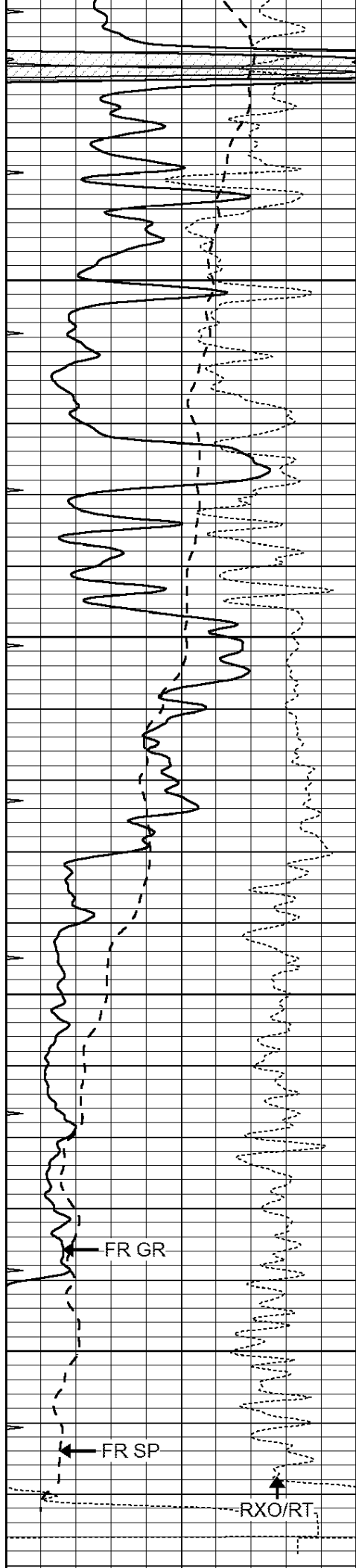
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3150

3200

3250





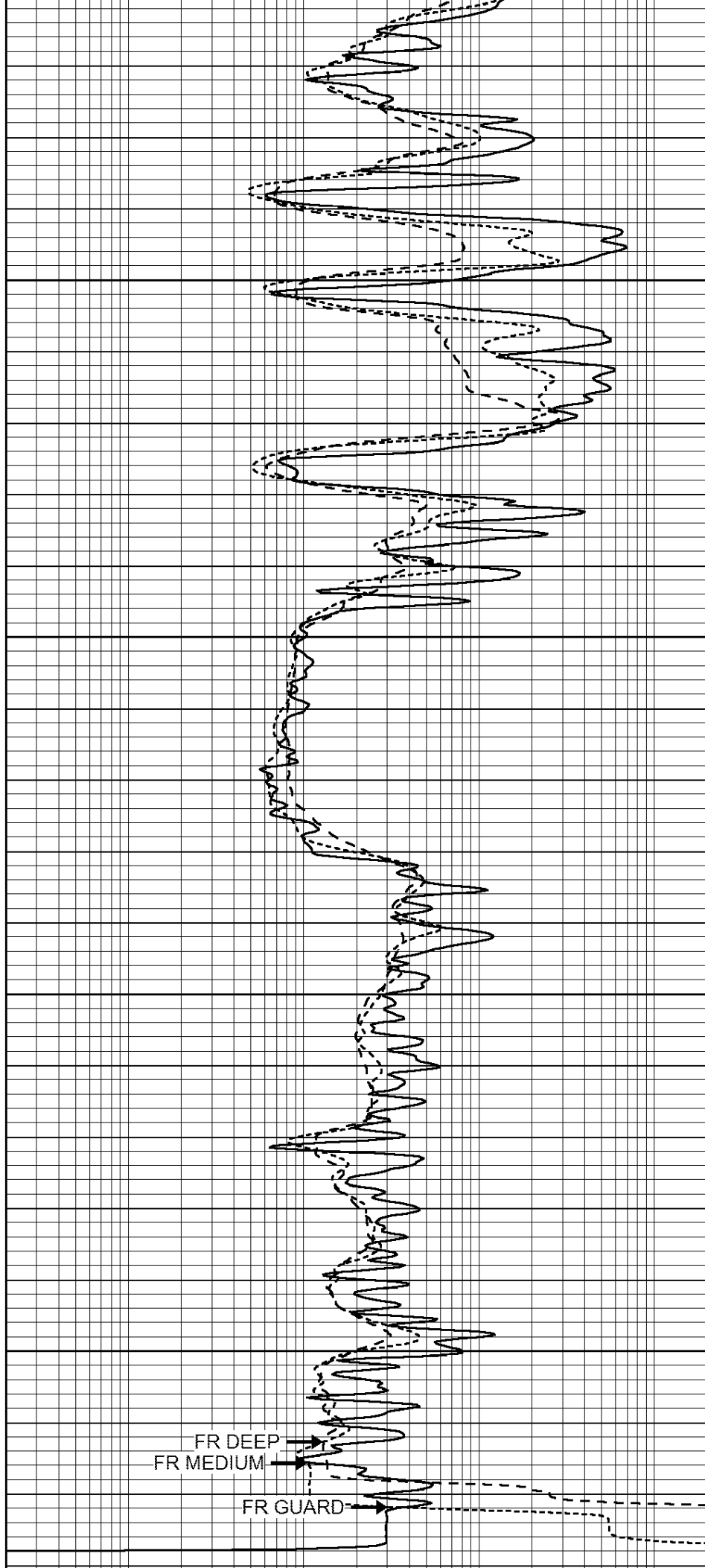
3300

3350

3400

3450

LTD 3474



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



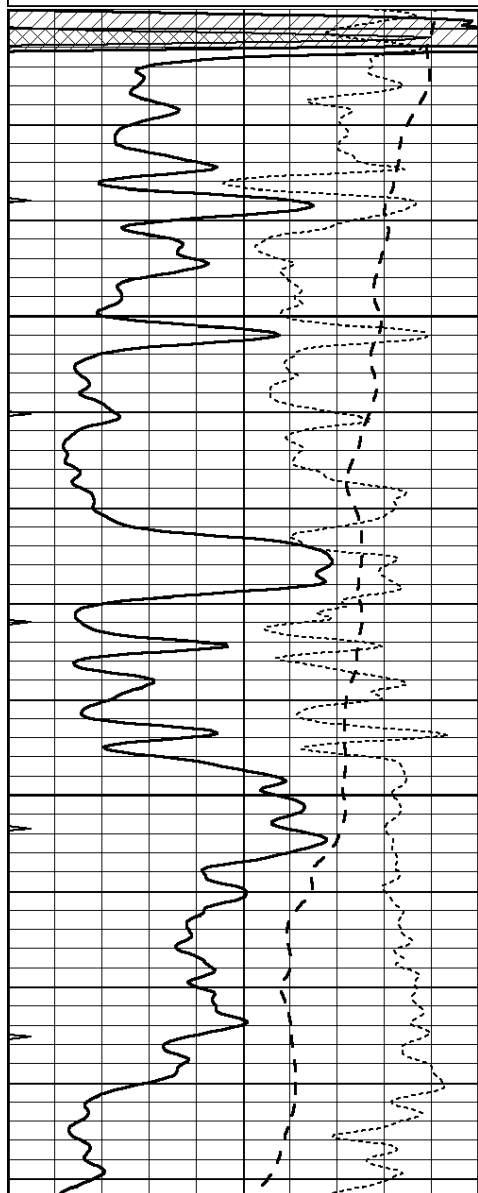
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REPEAT SECTION

Database File: 409695ddn.db
Dataset Pathname: pass2.4
Presentation Format: dil
Dataset Creation: Wed Oct 17 14:58:33 2012 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

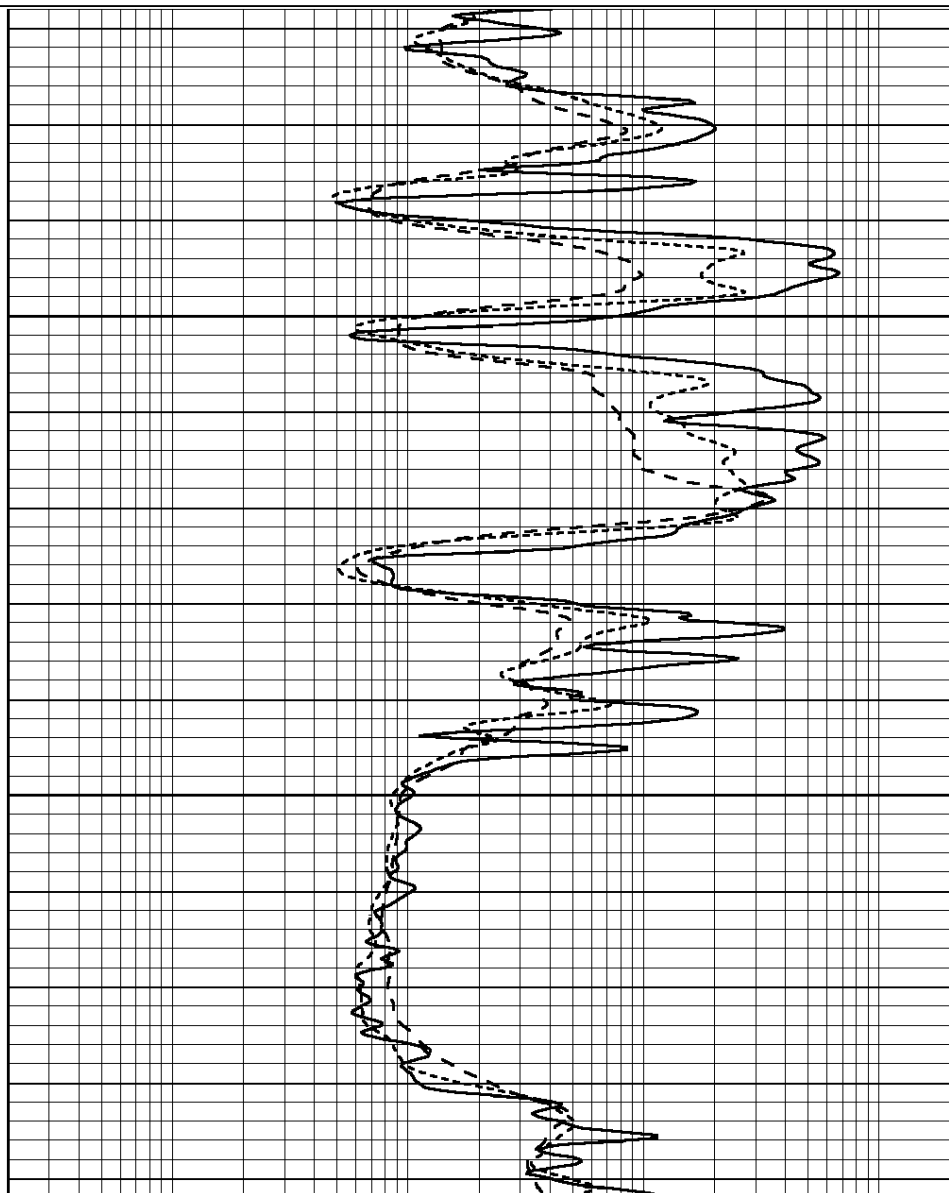
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

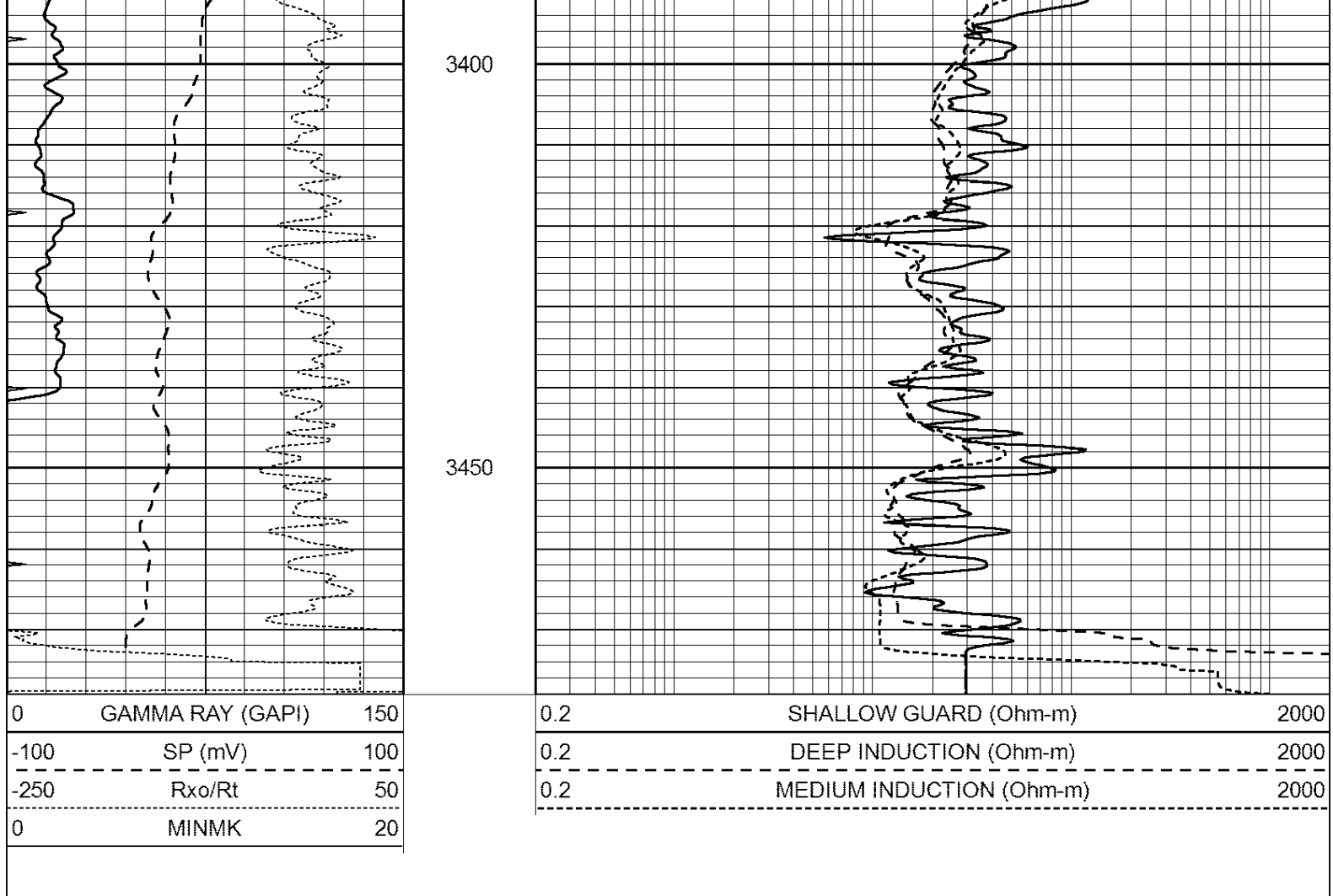
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



3300

3350





Calibration Report

Database File: 409695ddn.db
 Dataset Pathname: pass3.7
 Dataset Creation: Wed Oct 17 15:53:33 2012

Dual Induction Calibration Report

Serial-Model: DIL4-GEAR
 Performed: Wed Oct 17 14:54:36 2012

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.666	V	0.000	400.000	mmho/m	570.000	1.000
Medium	-0.003	0.769	V	0.000	462.500	mmho/m	560.000	0.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.013	0.651	V	0.000	400.000	mmho/m	627.541	-8.365
Medium	0.020	0.754	V	0.000	462.500	mmho/m	630.311	-12.549

Litho Density Calibration Report
 Serial: 003N Model: PRB
 Performed Tue Sep 08 14:14:44 2009

Litho Density Calibration

	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
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8

Caliper					
	Readings	Reference			
Low Ref	3.4	8.0			
High Ref	5.0	15.0			
	Gain: 4.5		Offset: -7.1		

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:	070559	
Tool Model:	OPEN_GR	
Performed:	Wed Sep 19 15:58:00 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.3000	GAPI/cps