



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company	TRANS - PACIFIC OIL CORPORATION		
Well	SPEER "A" #1-28		
Field	WILDCAT		
County	LANE		
State	KANSAS		
Company	TRANS - PACIFIC OIL CORPORATION		
Well	SPEER "A" #1-28		
Field	WILDCAT		
County	LANE		
State	KANSAS		
Location:	AP1 # : 15-101-22353-0000		Other Services CDL/CNL BTM-GR
Permanent Datum	GROUND LEVEL		
Log Measured From	825' FNL & 825' FWL NW - SE - NW - NW		Elevation K.B. 2793 D.F. 2791 G.L. 2784
Drilling Measured From	SEC 28 TWP 19S RGE 28W KELLY BUSHING		
Date	2/27/12		
Run Number	ONE		
Depth Driller	4656		
Depth Logger	4656		
Bottom Logged Interval	4654		
Top Log Interval	00		
Casing Driller	8 5/8"@223'		
Casing Logger	223		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1,500 PPM	
Density / Viscosity	9.3/52		
pH / Fluid Loss	10.5/4.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.50@52F		
Rmt @ Meas. Temp	1.13@52F		
Rmc @ Meas. Temp	1.80@52F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.639@122F		
Time Circulation Stopped	8 HOURS		
Time Logger on Bottom	3:15 P.M.		
Maximum Recorded Temperature	122F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	MIKE KIDWELL		

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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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
DIGHTON, KS. (4 WAY STOP) 6S. ON HWY 23, 2E., 1S. BETWEEN TANK BATTERIES, E. INTO



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MAIN SECTION

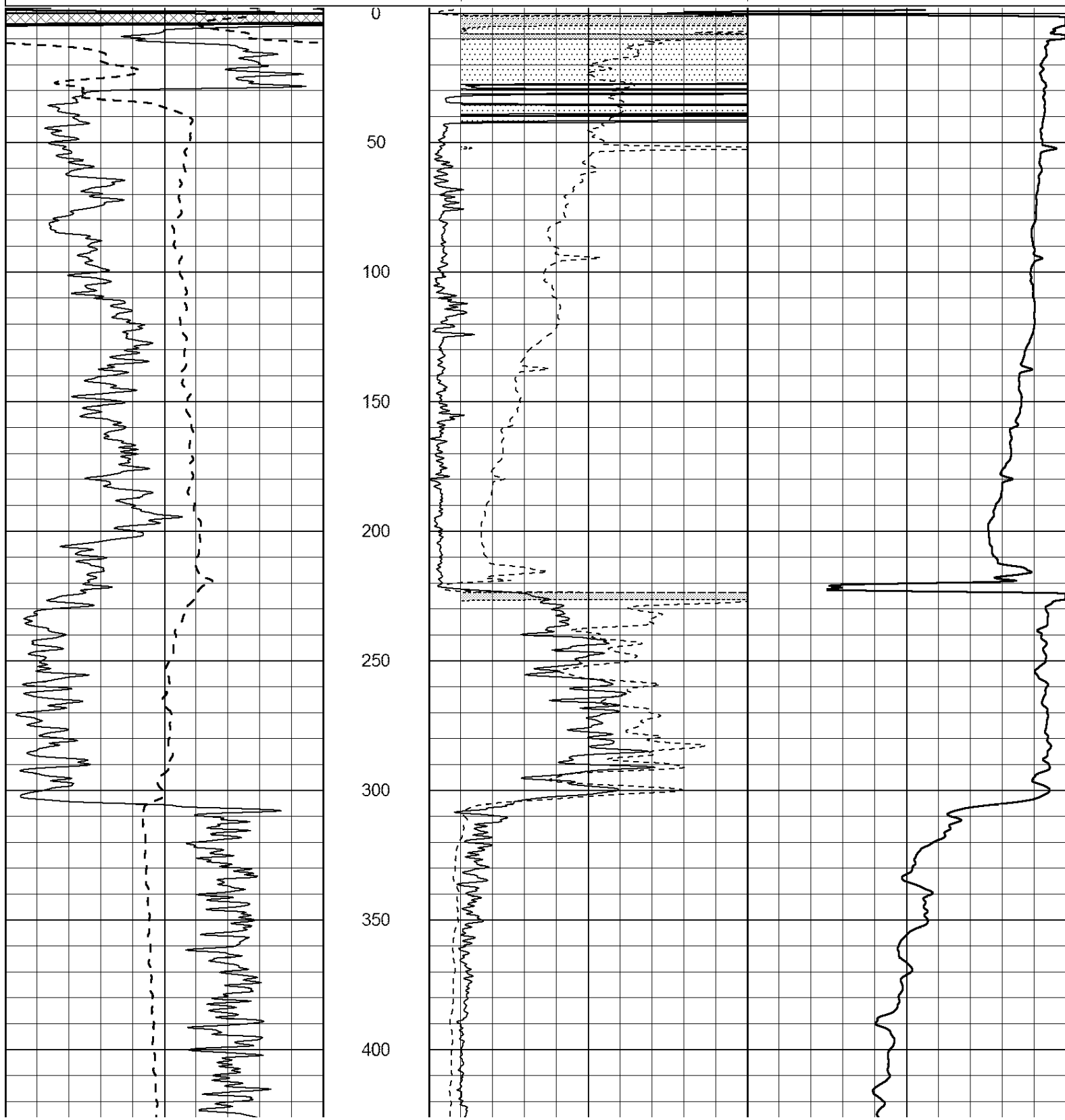
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 Dataset Pathname: pass5.9
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 Dataset Creation: Mon Feb 27 17:48:28 2012
 Charted by: Depth in Feet scaled 1:600

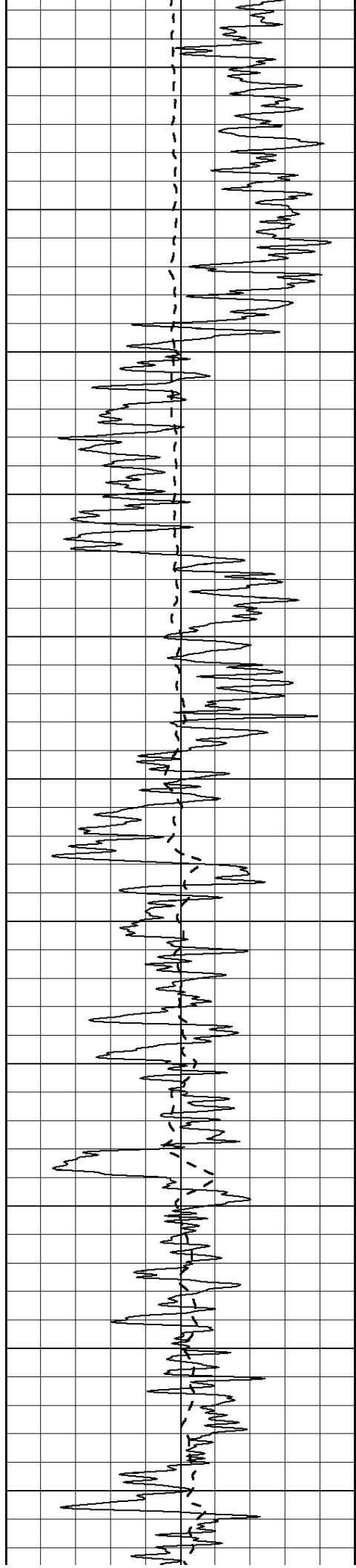
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-100	SP (mV)	100

0	RLL3 (Ohm-m)	50
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





450

500

550

600

650

700

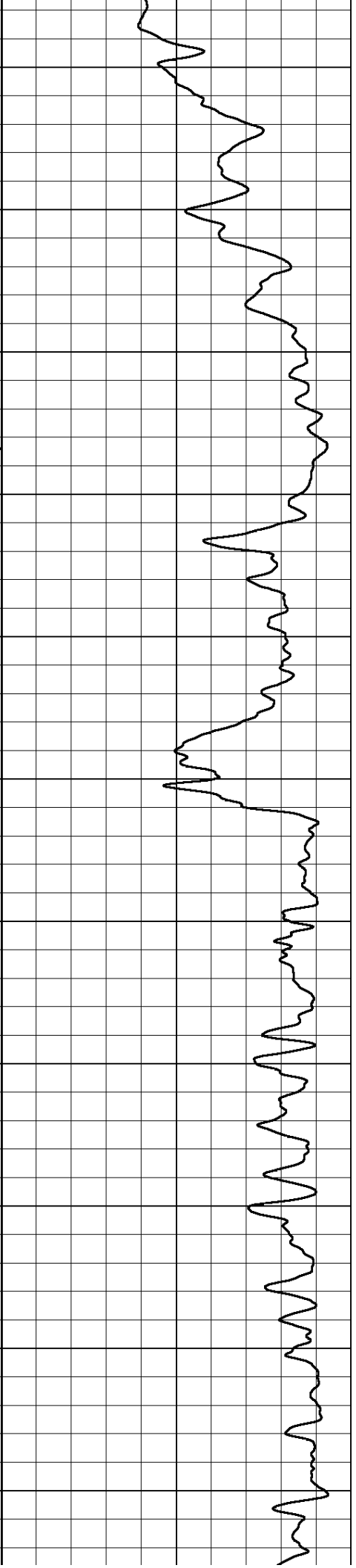
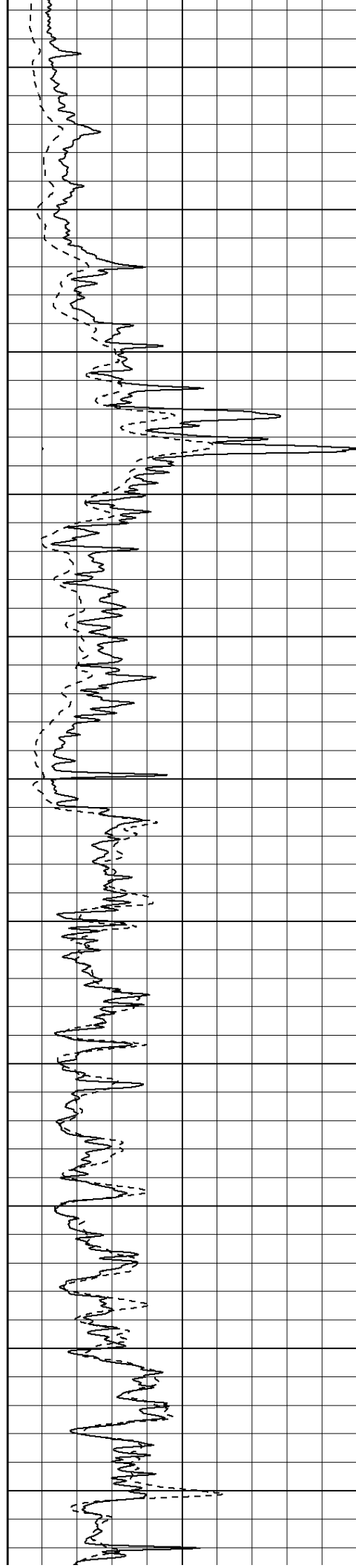
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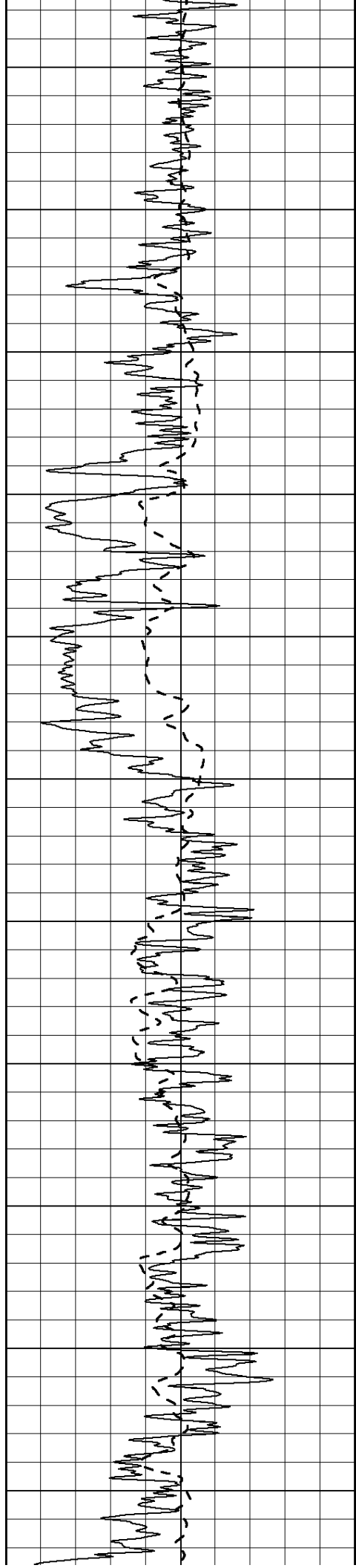
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850

900

950





1000

1050

1100

1150

1200

1250

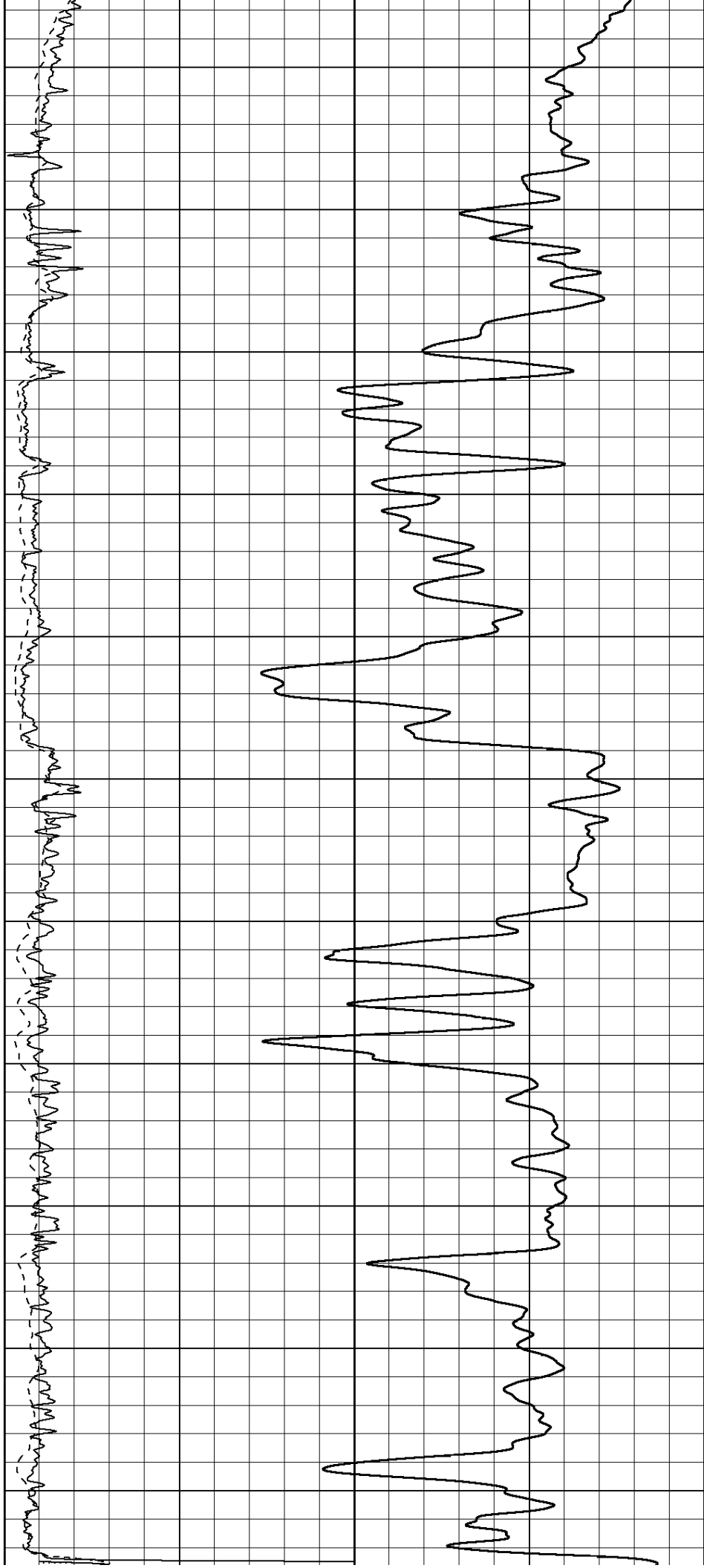
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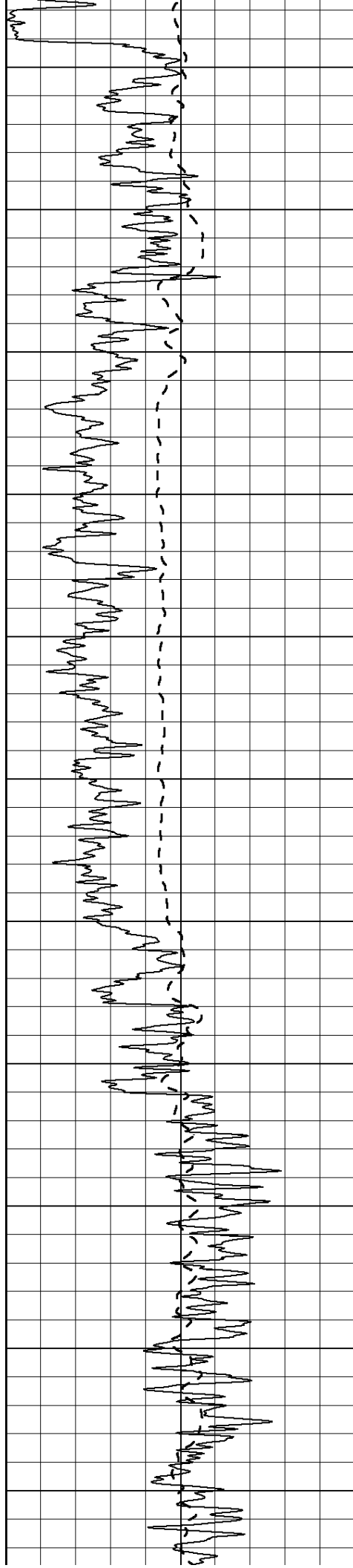
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1400

1450

1500





1550

1600

1650

1700

1750

1800

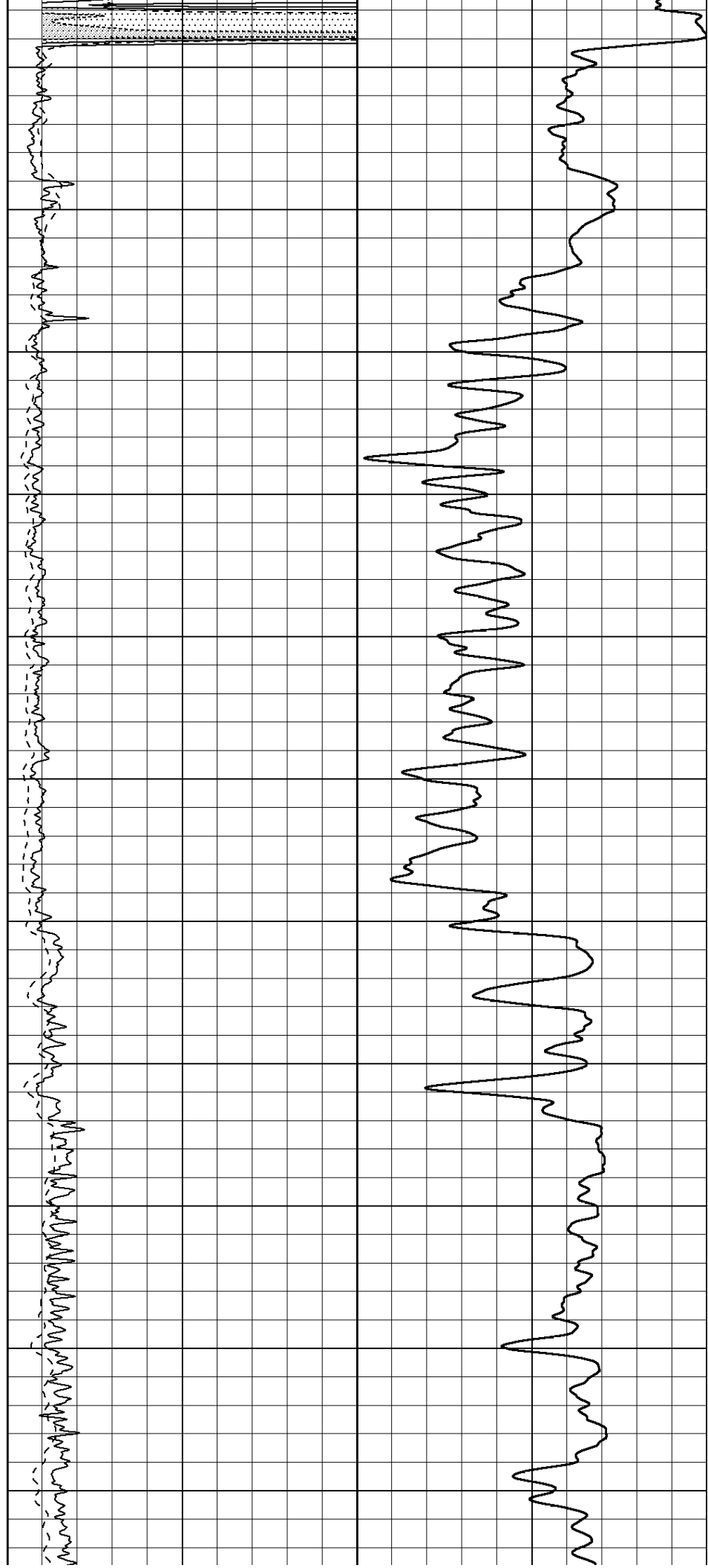
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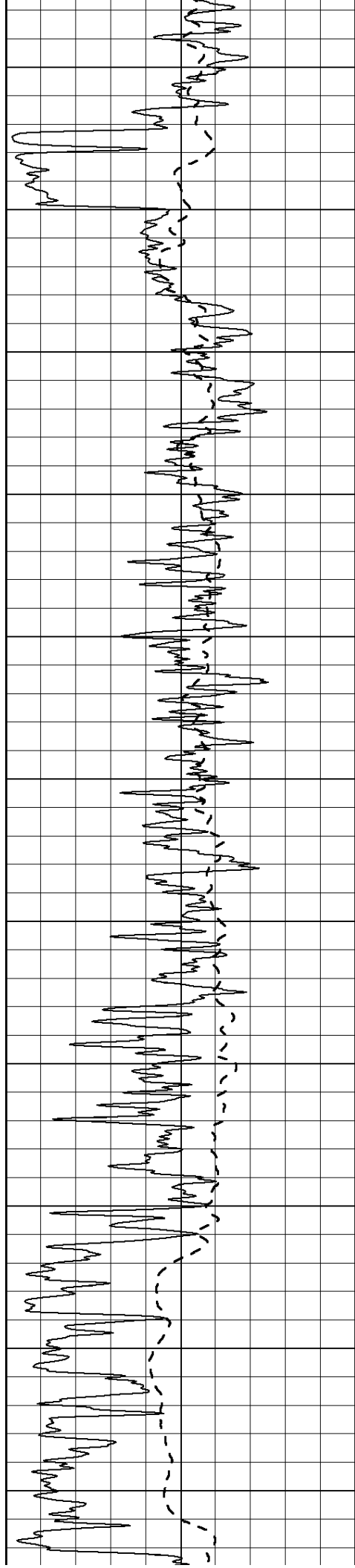
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1950

2000

2050





2100

2150

2200

2250

2300

2350

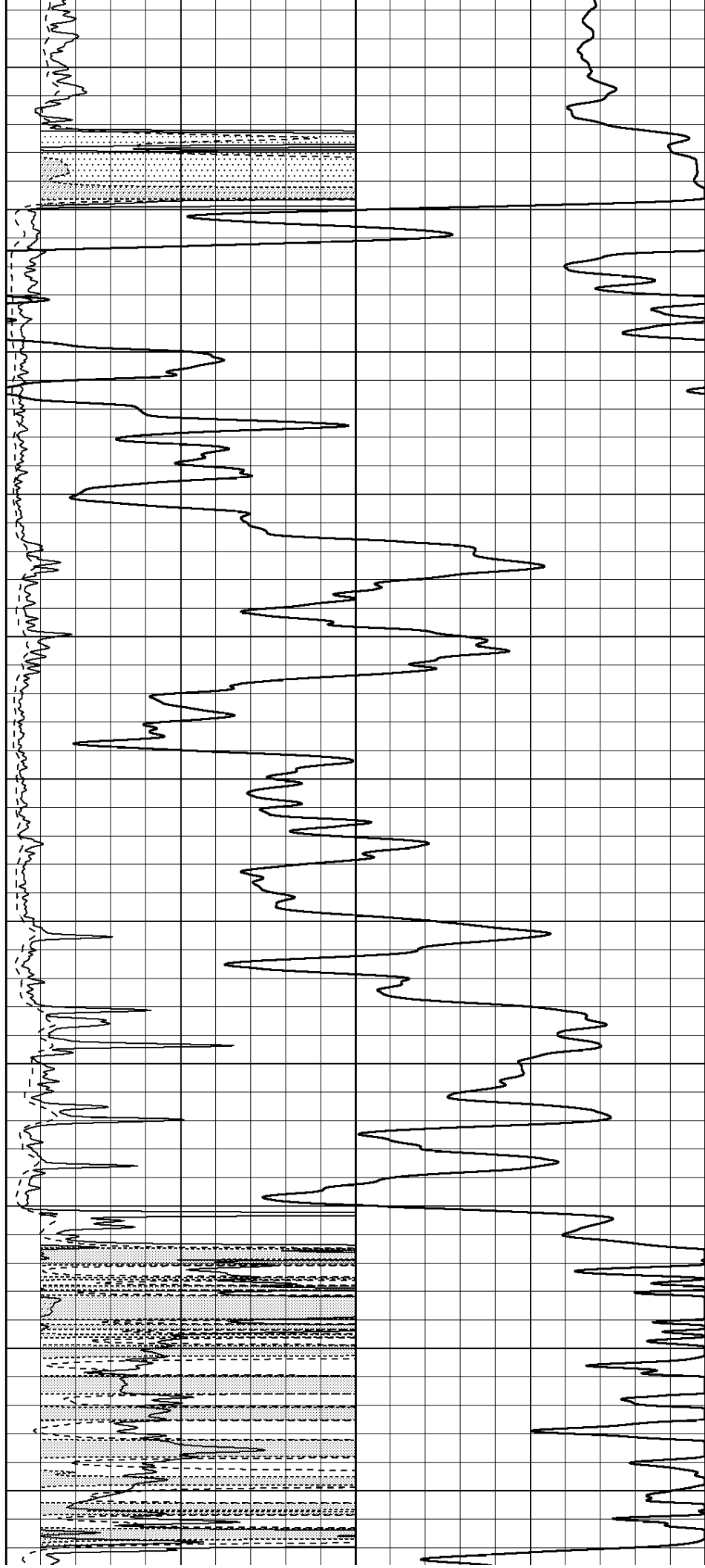
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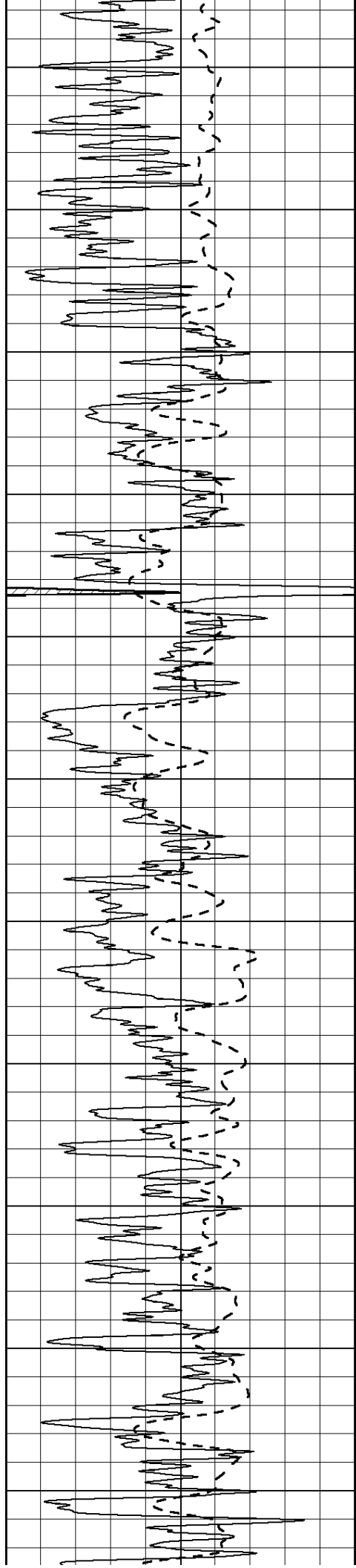
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2500

2550

2600





2650

2700

2750

2800

2850

2900

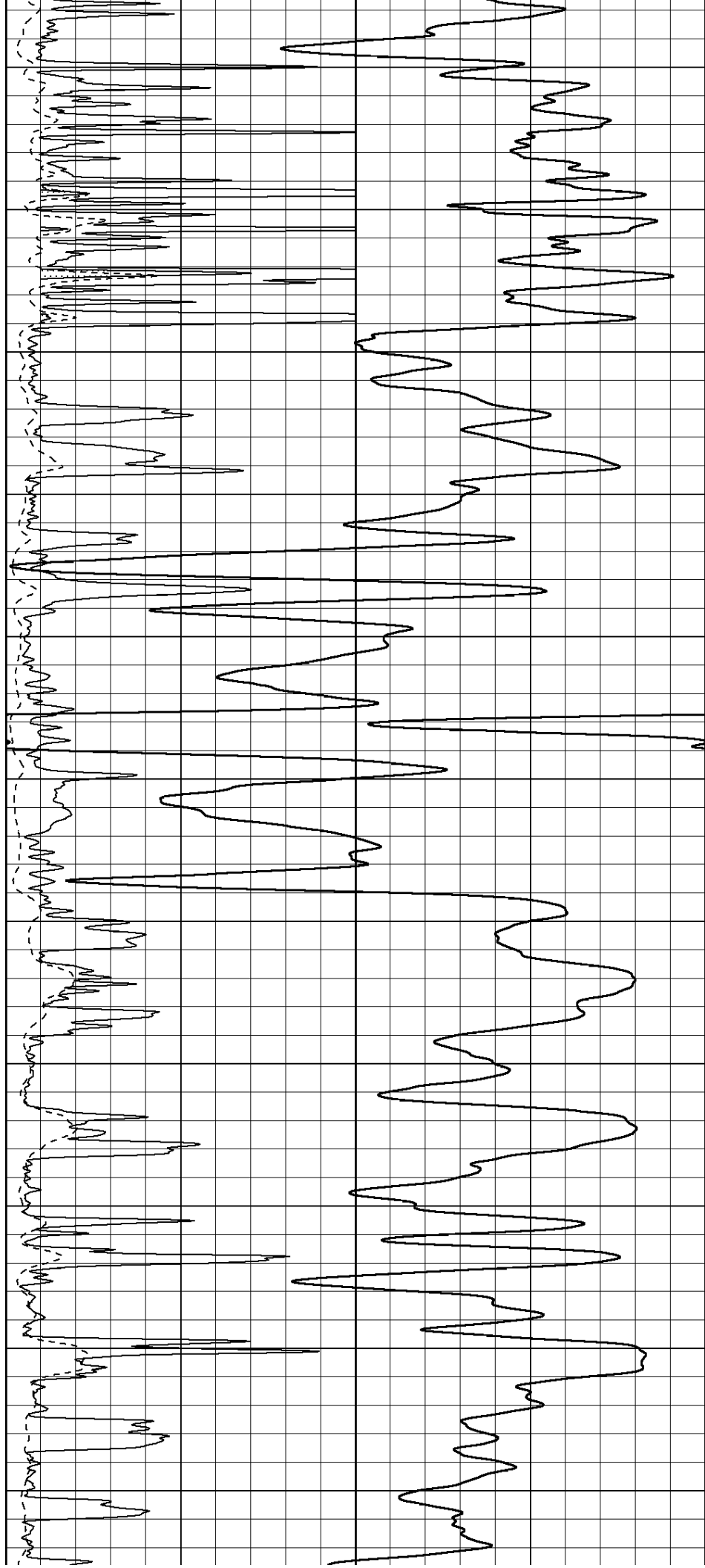
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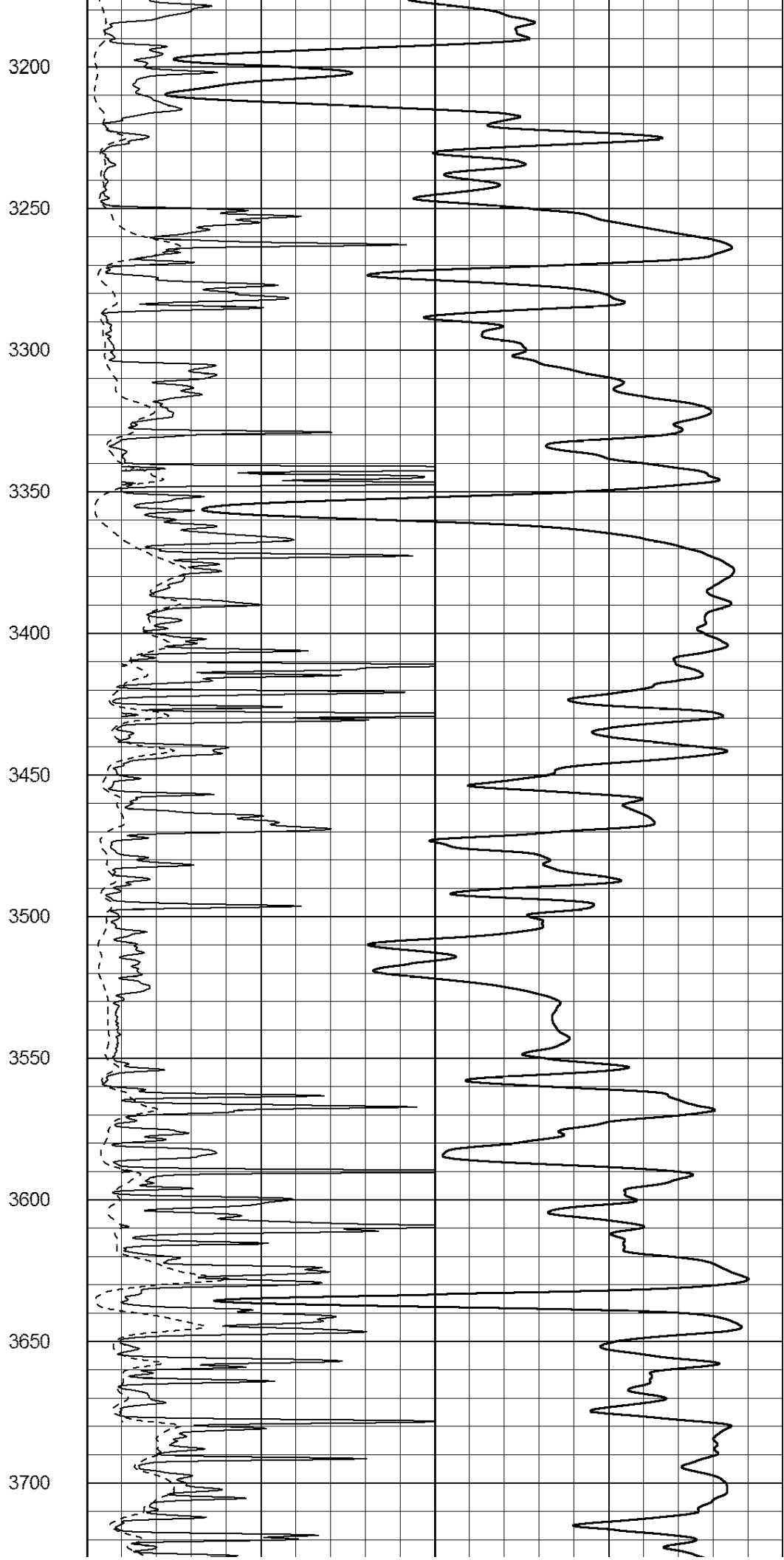
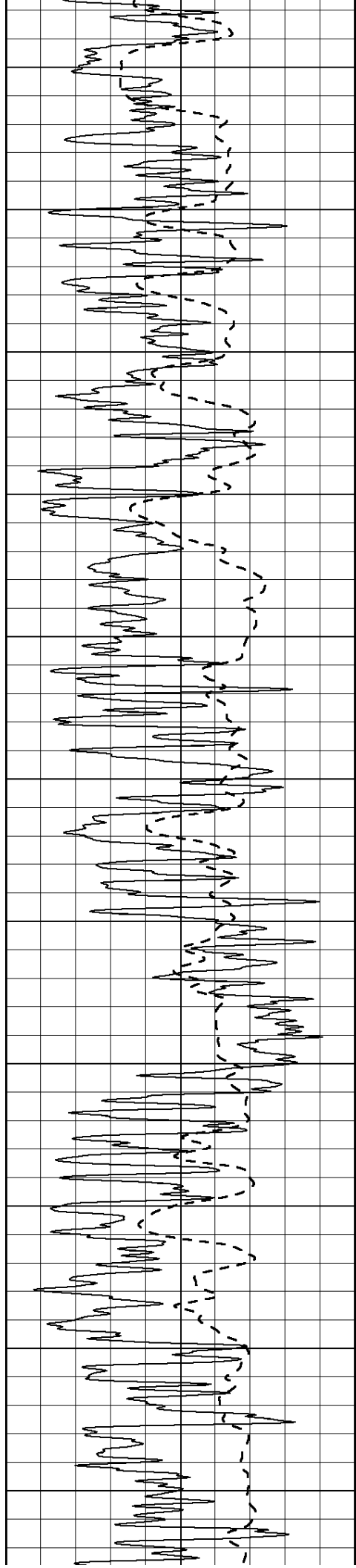
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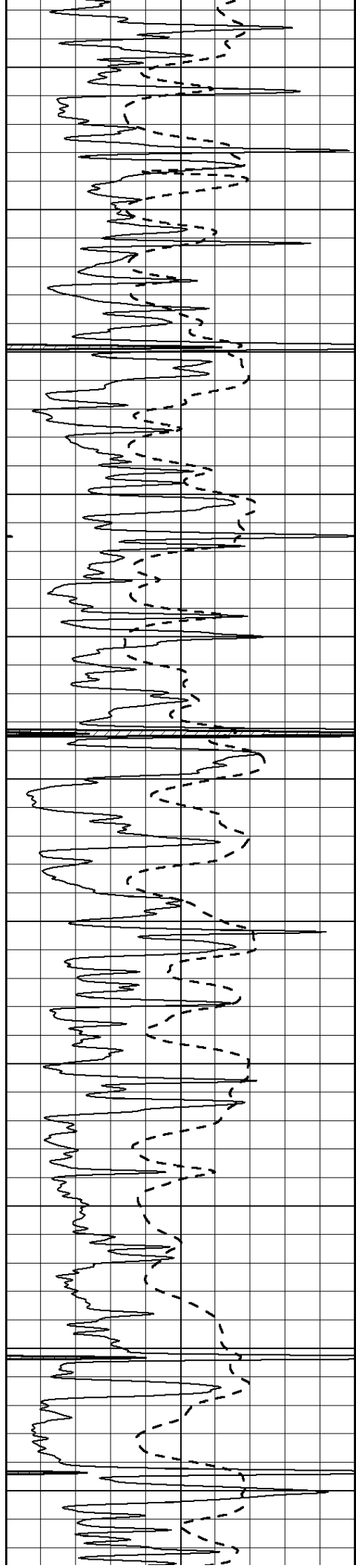
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3100

3150







3750

3800

3850

3900

3950

4000

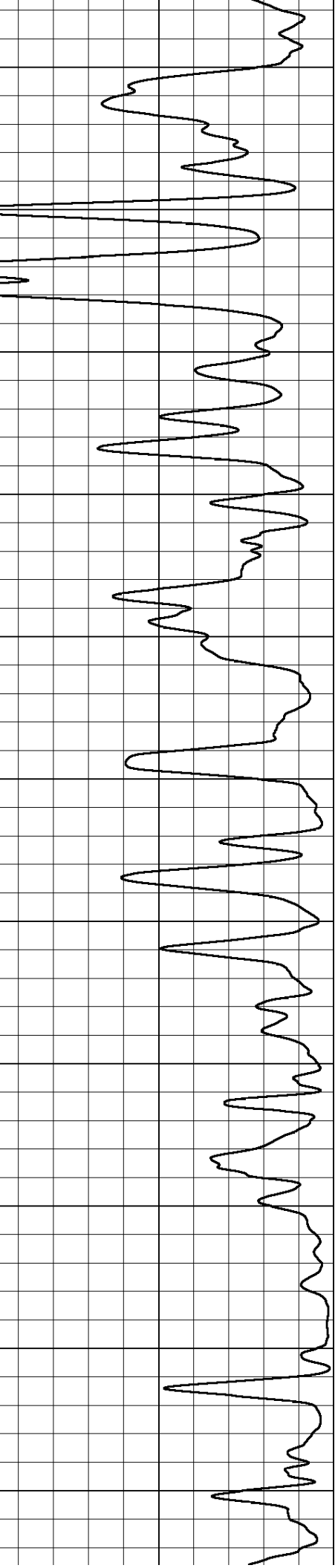
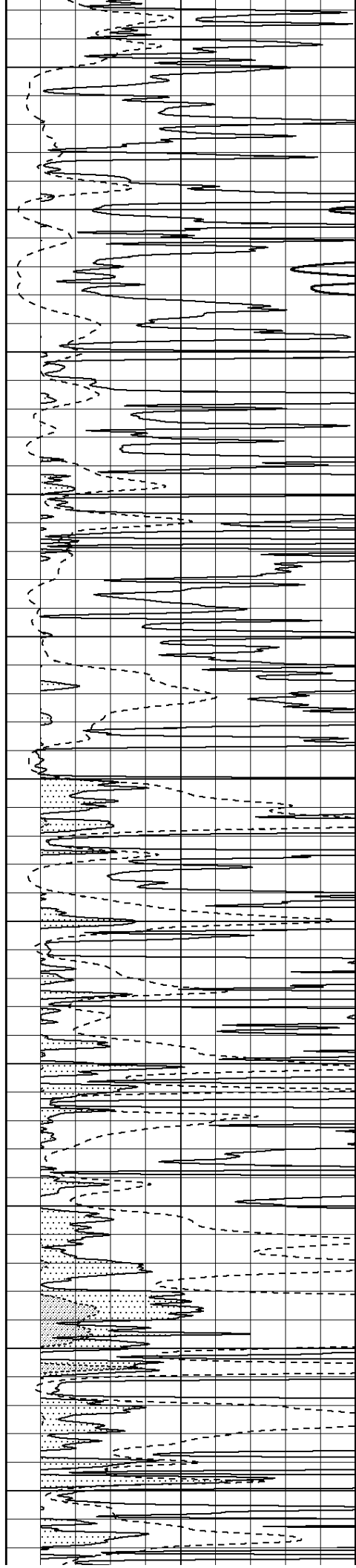
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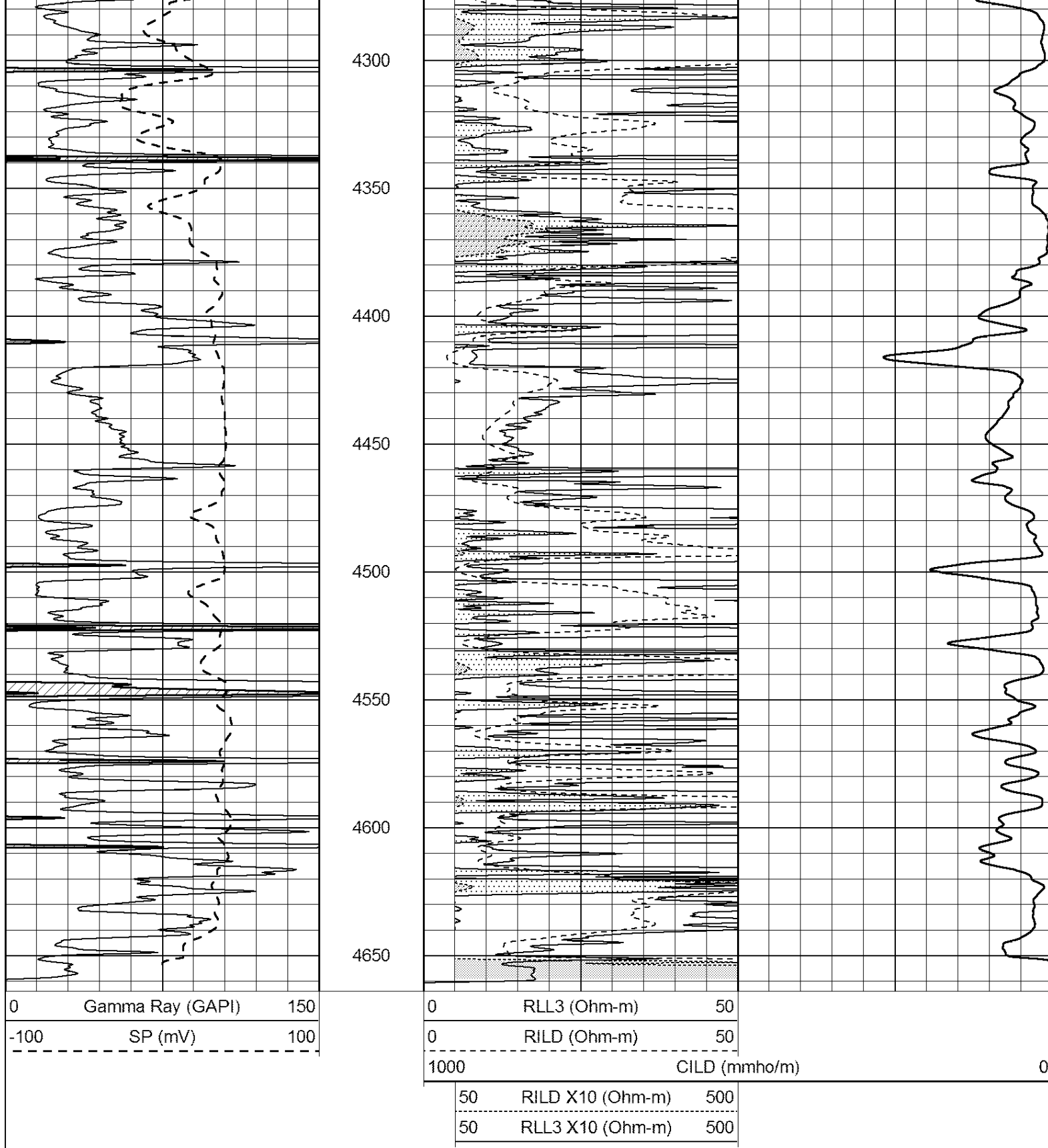
4100

4150

4200

4250





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ANHYDRITE

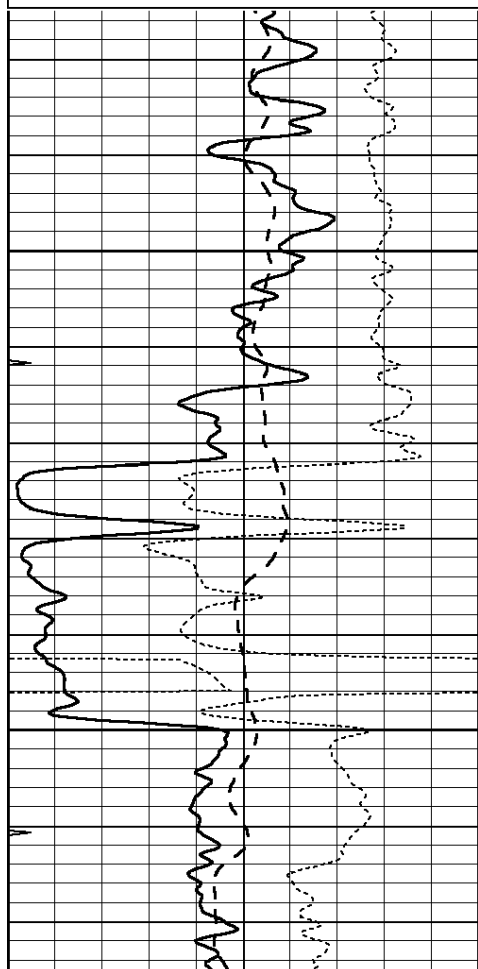
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Dataset Pathname: pass5.8
Presentation Format: dil
Dataset Creation: Mon Feb 27 17:43:43 2012 by Calc Open-Cased 110302

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



2100

2150

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



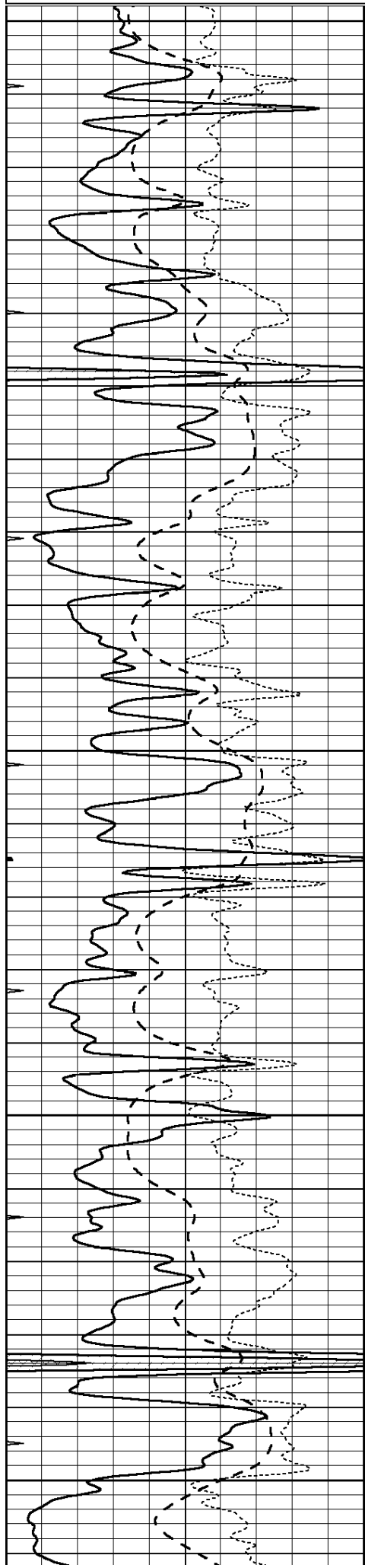
SUPERIOR
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MAIN SECTION

Database File: 408419ddn.db
 Dataset Pathname: pass5.9
 Presentation Format: dil
 Dataset Creation: Mon Feb 27 17:48:28 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



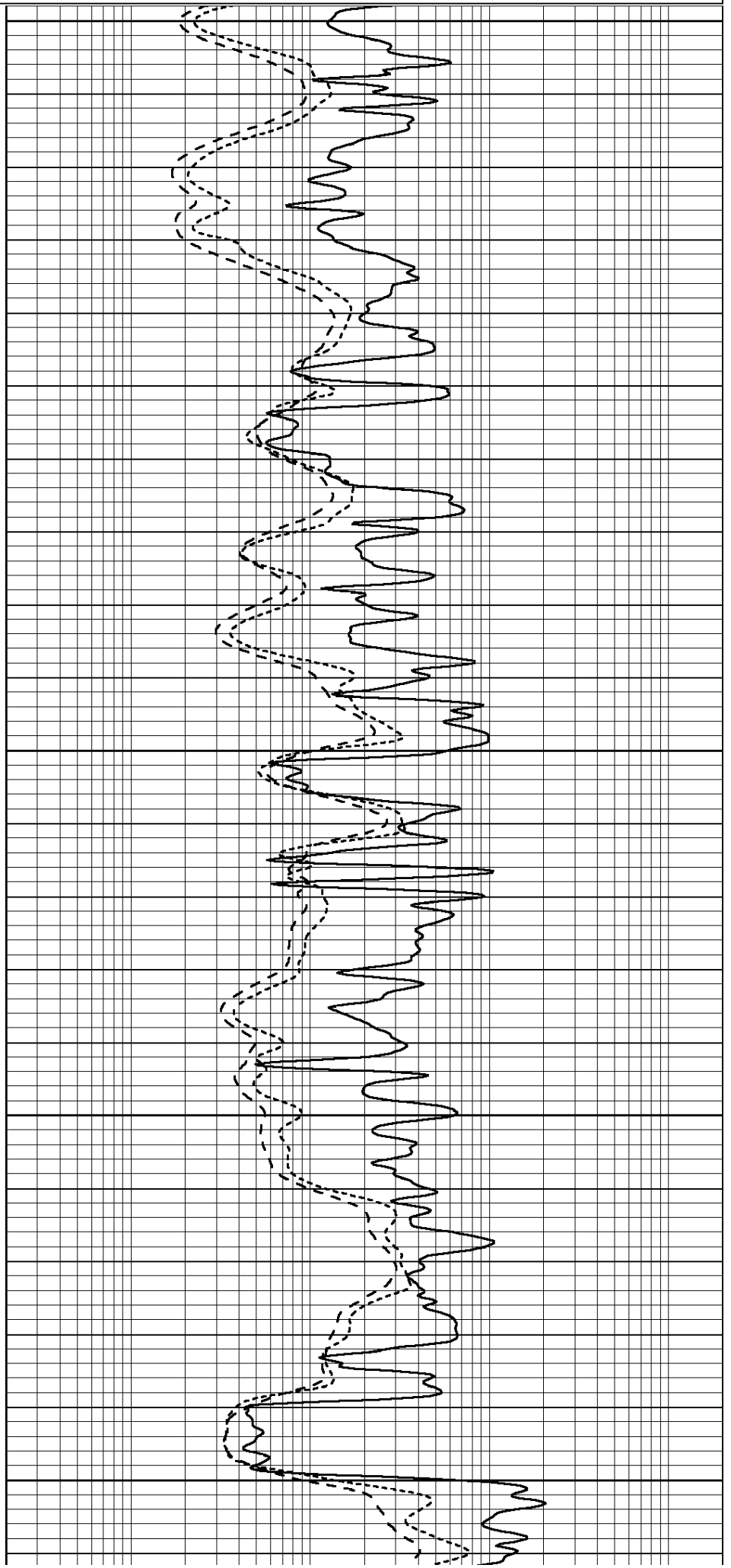
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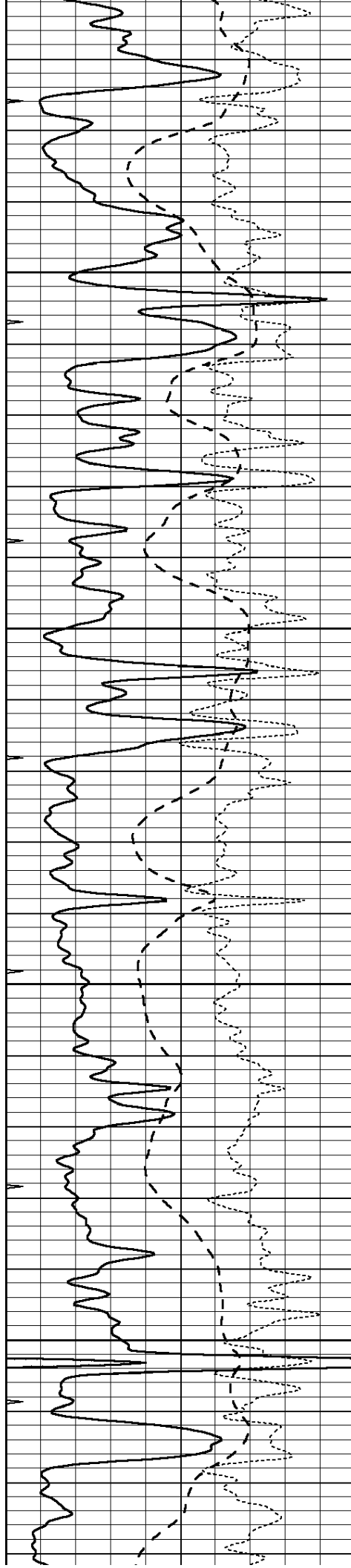
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3900

3950

4000



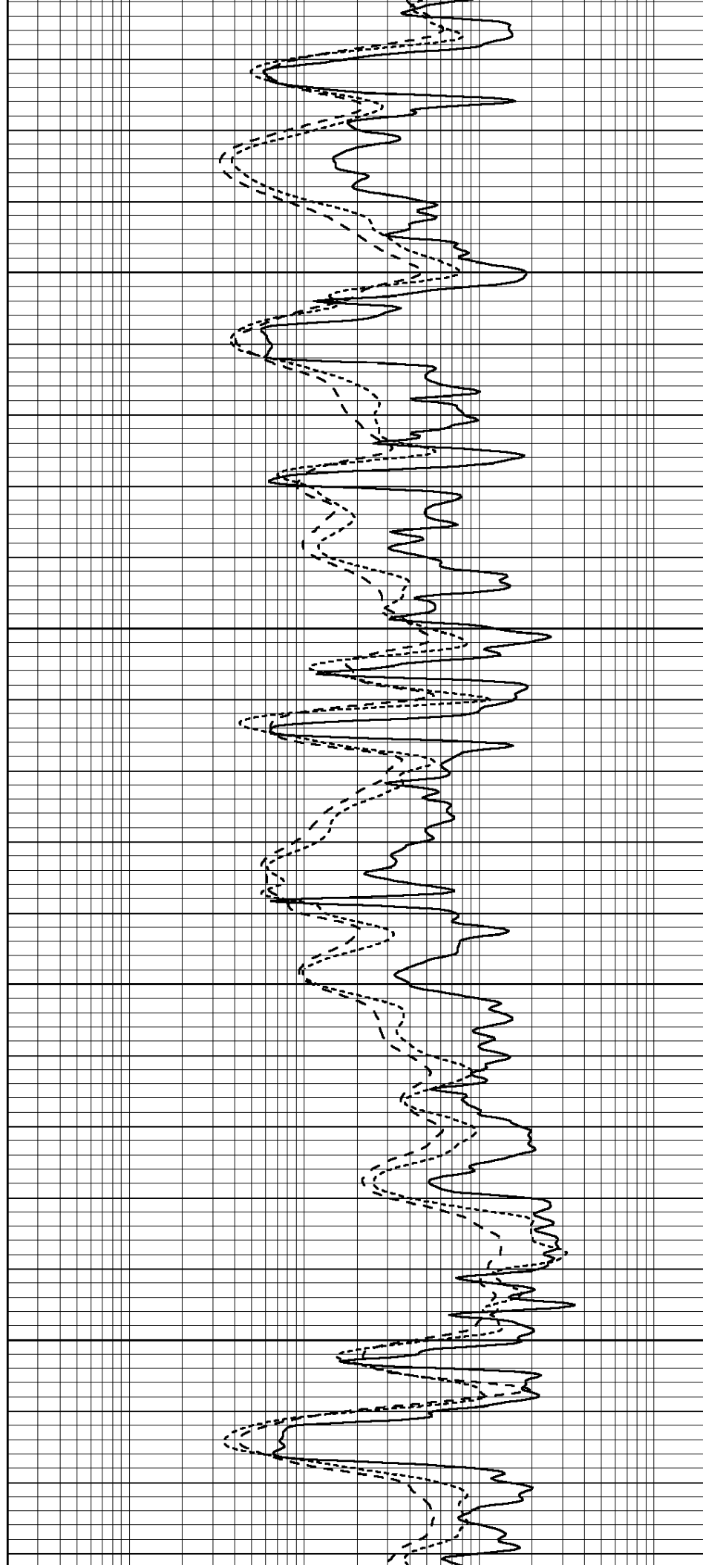


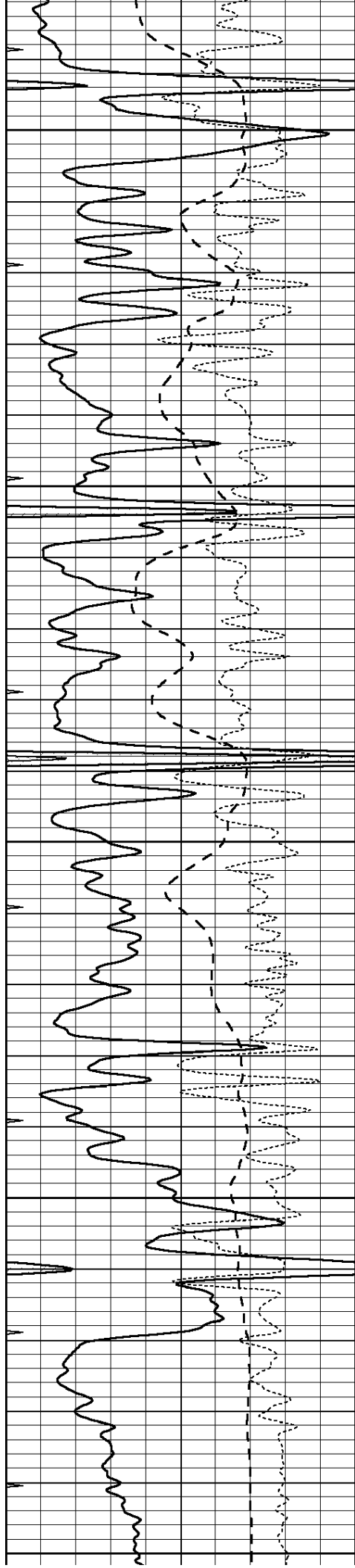
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4100

4150

4200





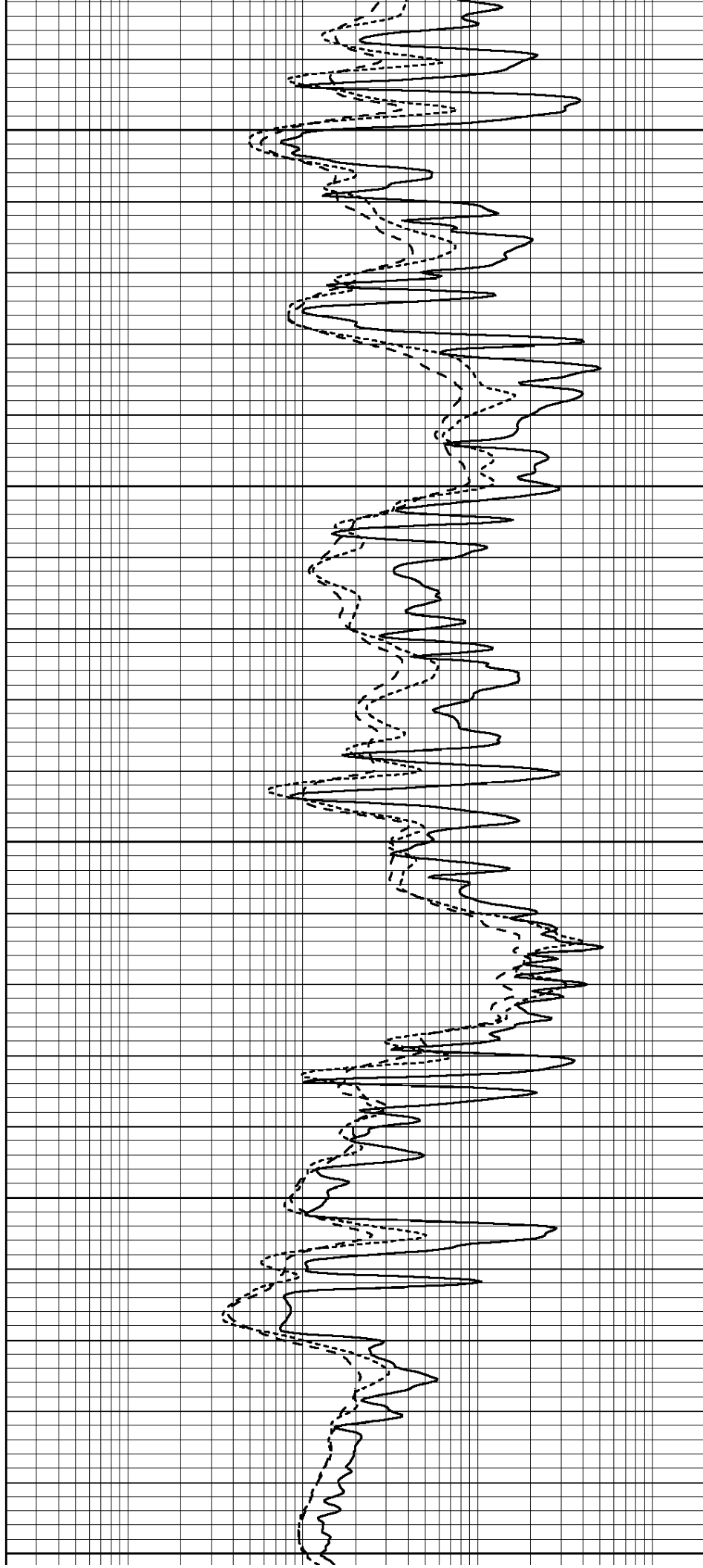
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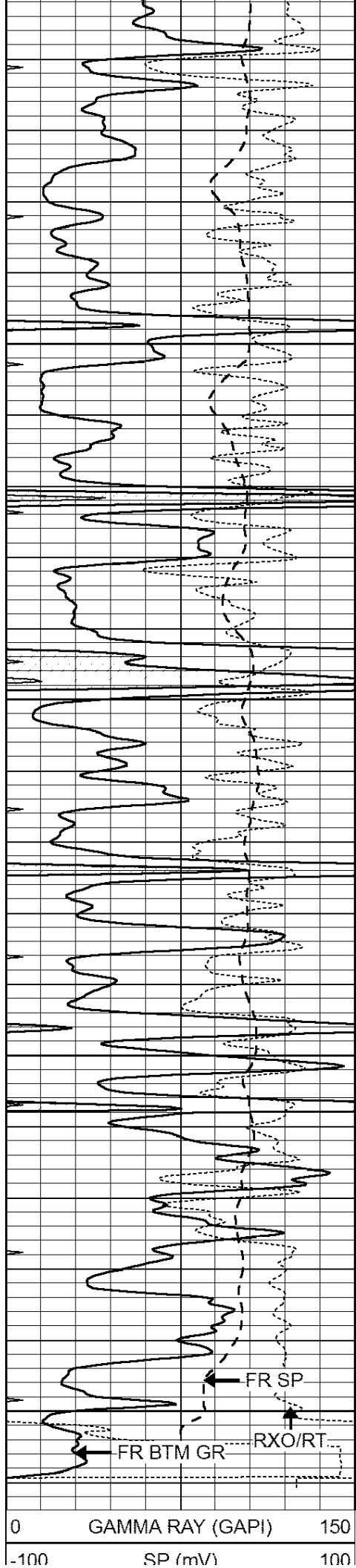
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4350

4400

4450





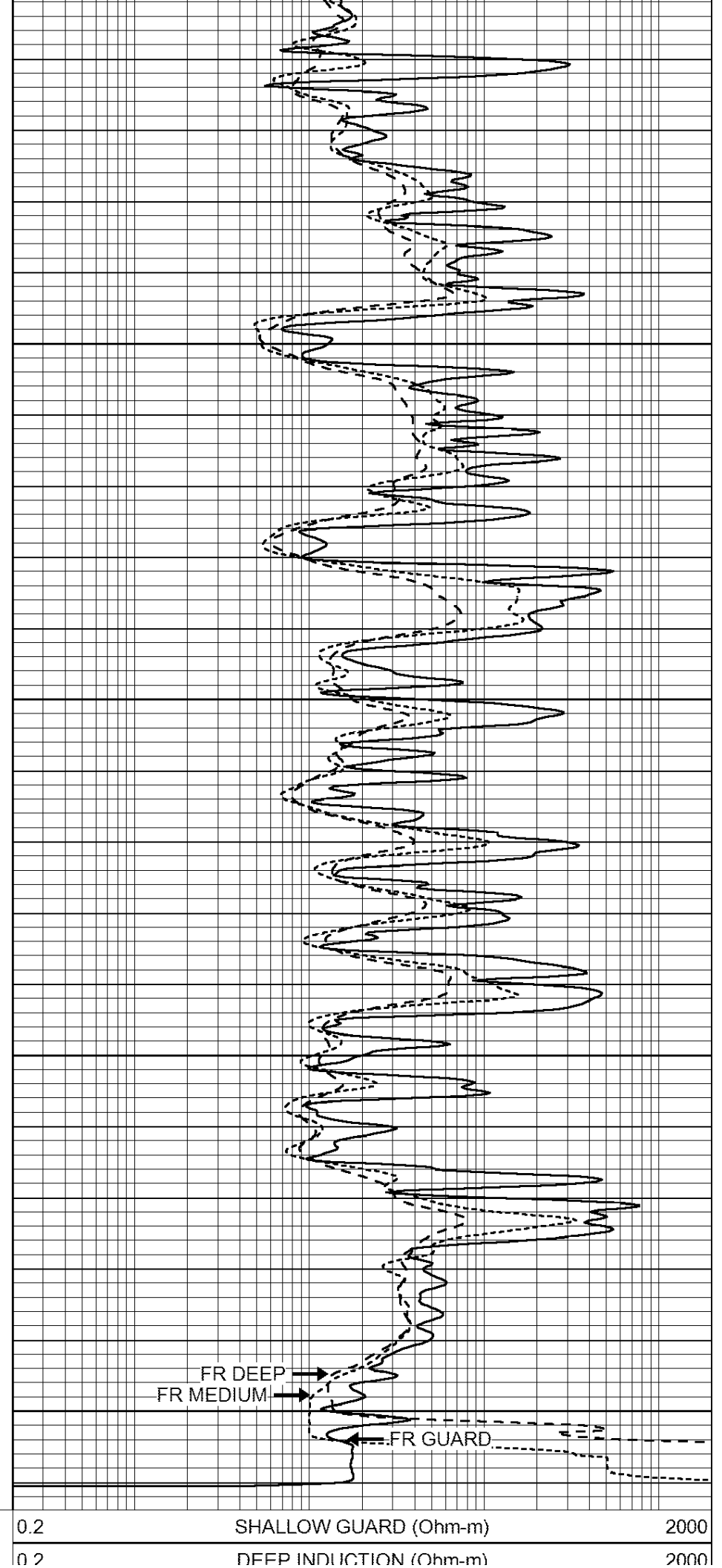
4500

4550

4600

4650

LTD 4656



-250	Rxo/Rt	50
0	MINMK	20

0.2	MEDIUM INDUCTION (Ohm-m)	2000
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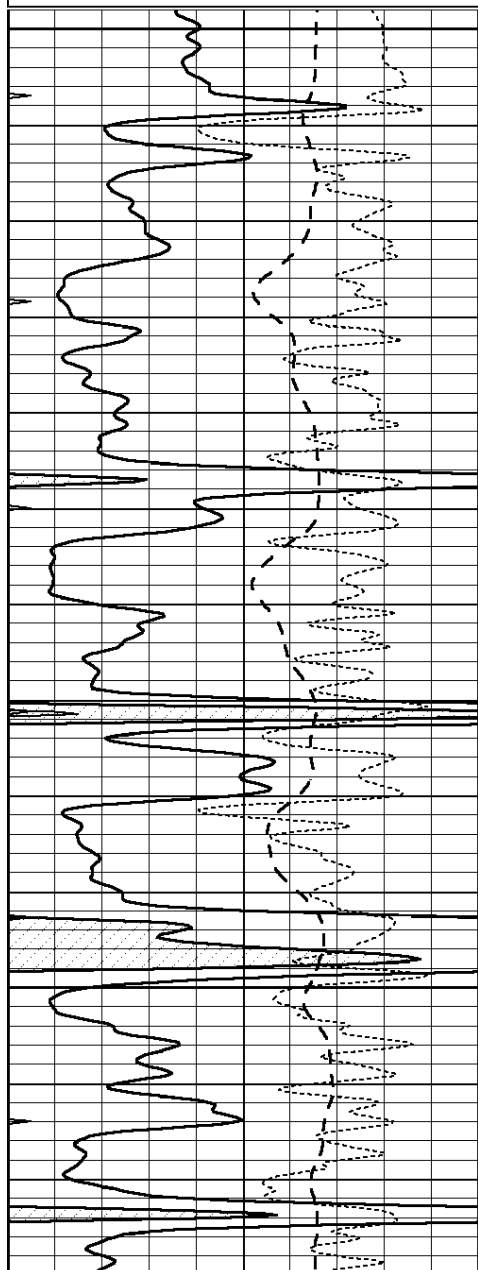
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REPEAT SECTION

Database File: 408419ddn.db
Dataset Pathname: pass4.7
Presentation Format: dil
Dataset Creation: Mon Feb 27 17:44:42 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

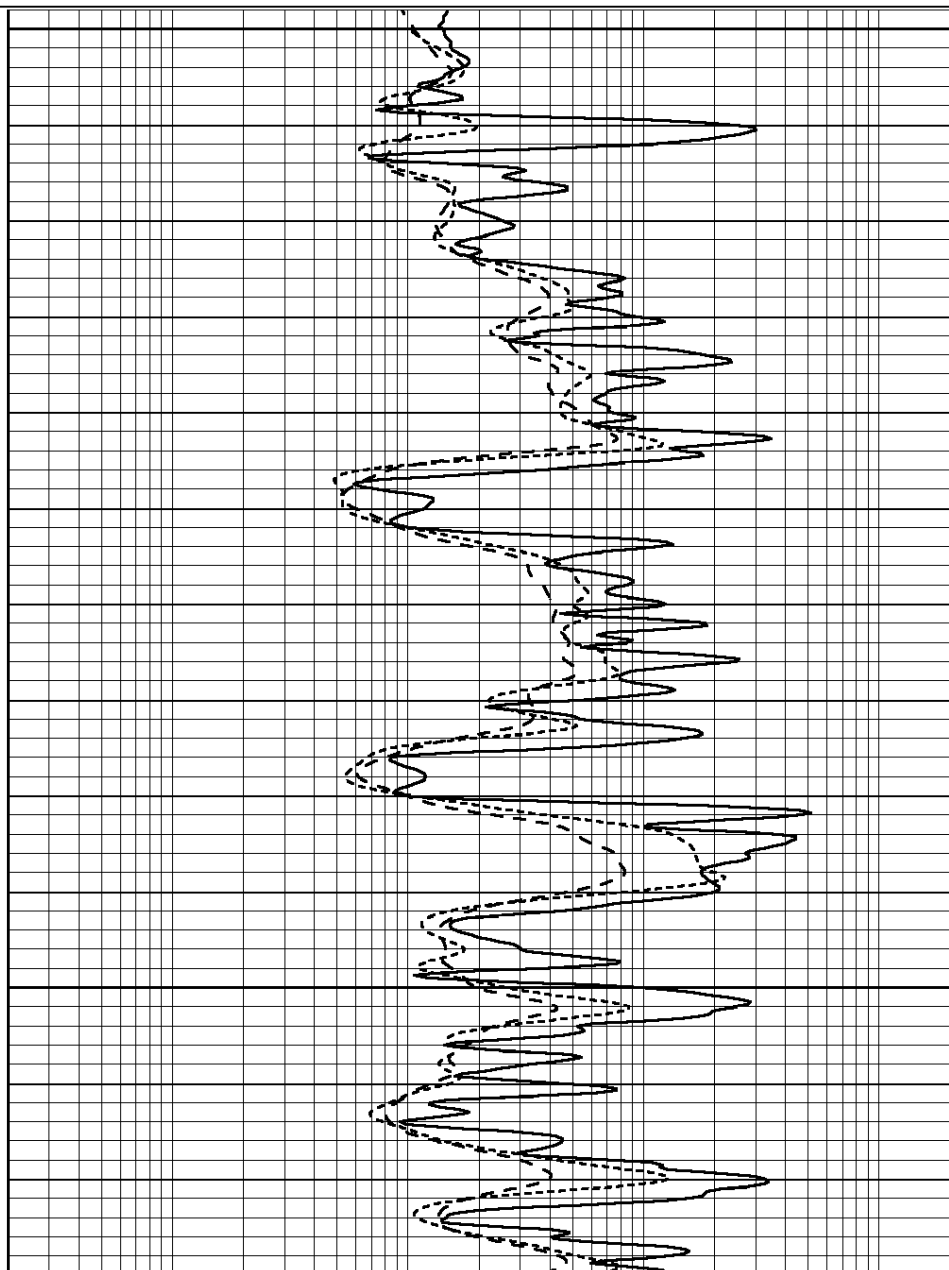
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

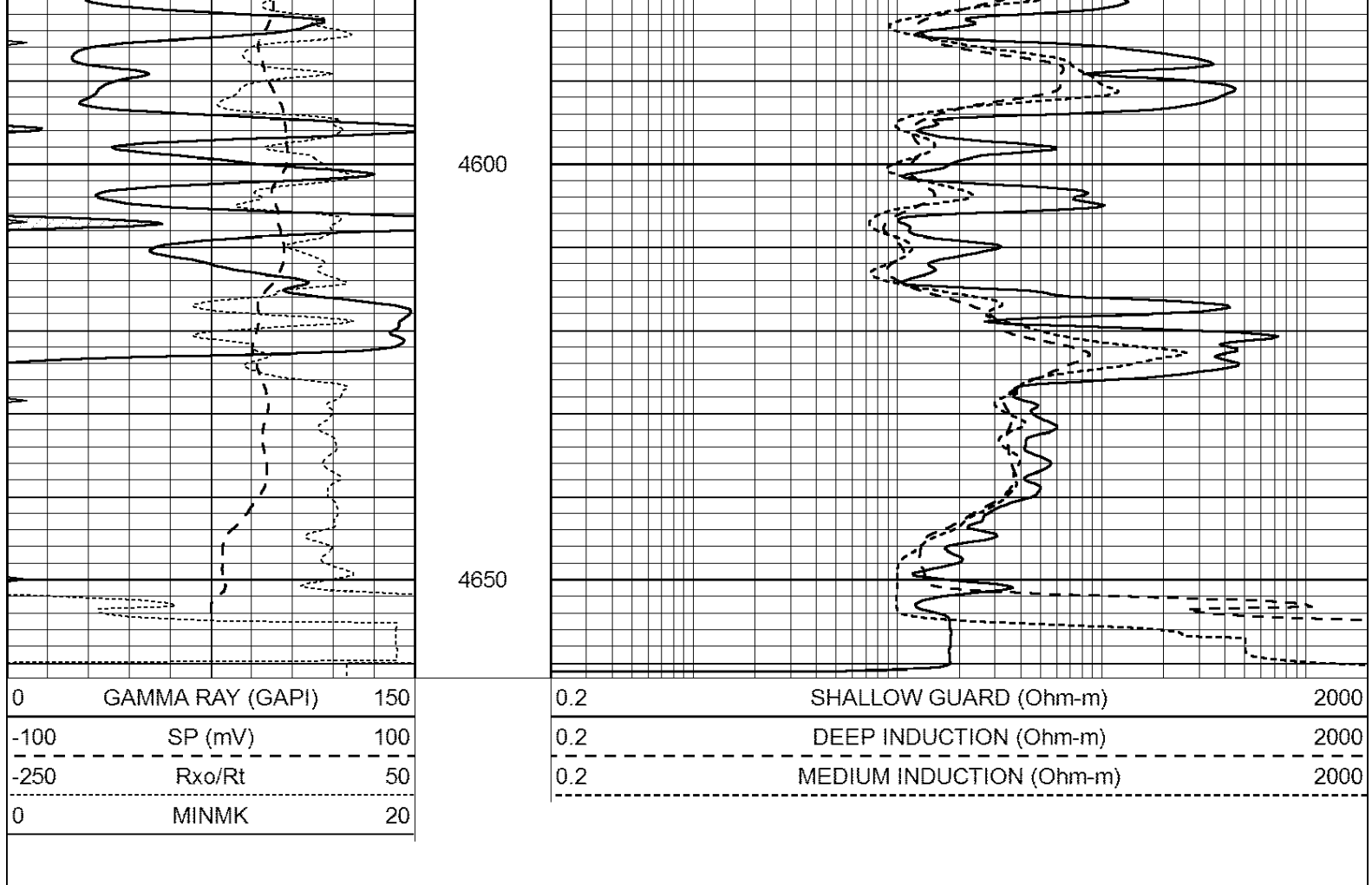


4450

4500

4550





Calibration Report								
Database File:		408419ddn.db						
Dataset Pathname:		pass5.9						
Dataset Creation:		Mon Feb 27 17:48:28 2012						
Dual Induction Calibration Report								
Serial-Model: Performed:				DIL4-GEAR Mon Feb 27 16:12:27 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	-2.000
Medium	-0.003	0.769	V	0.000	462.500	mmho/m	560.000	1.000
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: 004N				Model: PRB				
Performed Tue Sep 08 13:49:55 2009								

Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	1535.8	11161.3	3721.6	12498.8	cps
Window 2	1402.6	9435.7	3219.7	10417.7	cps
Window 3	1077.6	4422.0	1779.2	4753.4	cps
Window 4	337.3	342.8	337.4	343.7	cps

Window 4	537.0	542.0	537.4	540.7	cps
Long Space	0.0	8033.1	1817.0	9015.1	cps
Short Space	1.2	1671.8	1138.1	1813.0	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.5	Rib Slope	: 1.017	Density/Spine Ratio	: 0.573
Spine Angle	: 75.5	Spine Slope	: 3.865	Spine Intercept	: -19.7
Caliper					
	Readings	Reference			
Low Ref	2.6	6.7			
High Ref	4.3	15.0			
	Gain: 4.9		Offset: -6.0		
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:	Mon Feb 27 15:44:26 2012				
Calibrator Value:	1.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	1.0	cps			
Sensitivity:	0.3000	GAPI/cps			