



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company		ETERNITY EXPLORATION, LLC.	
Well		BETTY WERTH #2	
Field		GURK NORTH	
County		GRAHAM	
State		KANSAS	
Company		ETERNITY EXPLORATION, LLC.	
Well		BETTY WERTH #2	
Field		GURK NORTH	
County		GRAHAM	
State		KANSAS	
Location:		API # : 15-065-23742-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		990" FNL & 2310' FEL	
Drilling Measured From		SW - NW - NE	
SEC 7		TWP 10S	
RGE		25W	
Elevation		2545	
K.B. 2550		D.F. 2548	
G.L. 2545		MEL	
Date		6/19/11	
Run Number		ONE	
Depth Driller		4077	
Depth Logger		4075	
Bottom Logged Interval		4073	
Top Log Interval		00	
Casing Driller		8 5/8" @ 231	
Casing Logger		230	
Bit Size		7 7/8	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.2/54	
pH / Fluid Loss		11.0/6.8	
Source of Sample		FLOWLINE	
Rim @ Meas. Temp		.80 @ 87F	
Rmf @ Meas. Temp		.60 @ 87F	
Rmc @ Meas. Temp		.96 @ 87F	
Source of Rmf / Rmc		MEASURED	
Rim @ BHT		.60 @ 116F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom		116F	
Maximum Recorded Temperature		680	
Equipment Number		HAYS, KS.	
Location		JASON CAPPELLUCCI	
Recorded By		BRUCE ARD	
Witnessed By		CARLO UGOLINI	

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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 (785) 628-6395
DIRECTIONS
ST. PETER KS. - 1 N. - 3 1/2 W. - S. INTO



SUPERIOR
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MAIN SECTION

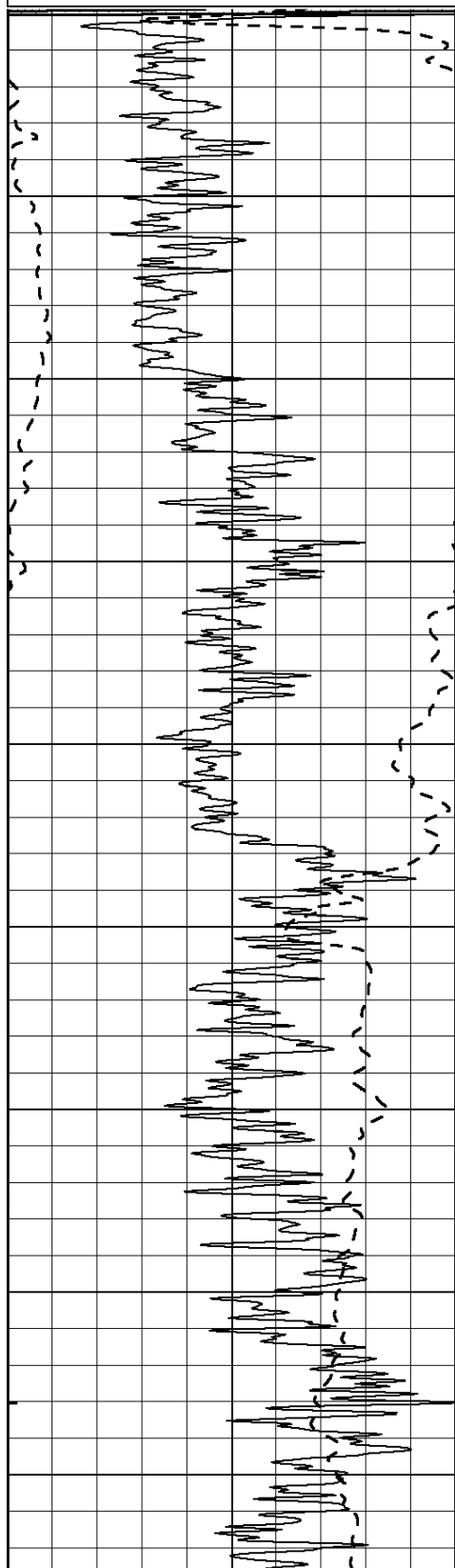
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 Presentation Format: _dil2
 Dataset Creation: Sun Jun 19 23:23:50 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:600

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

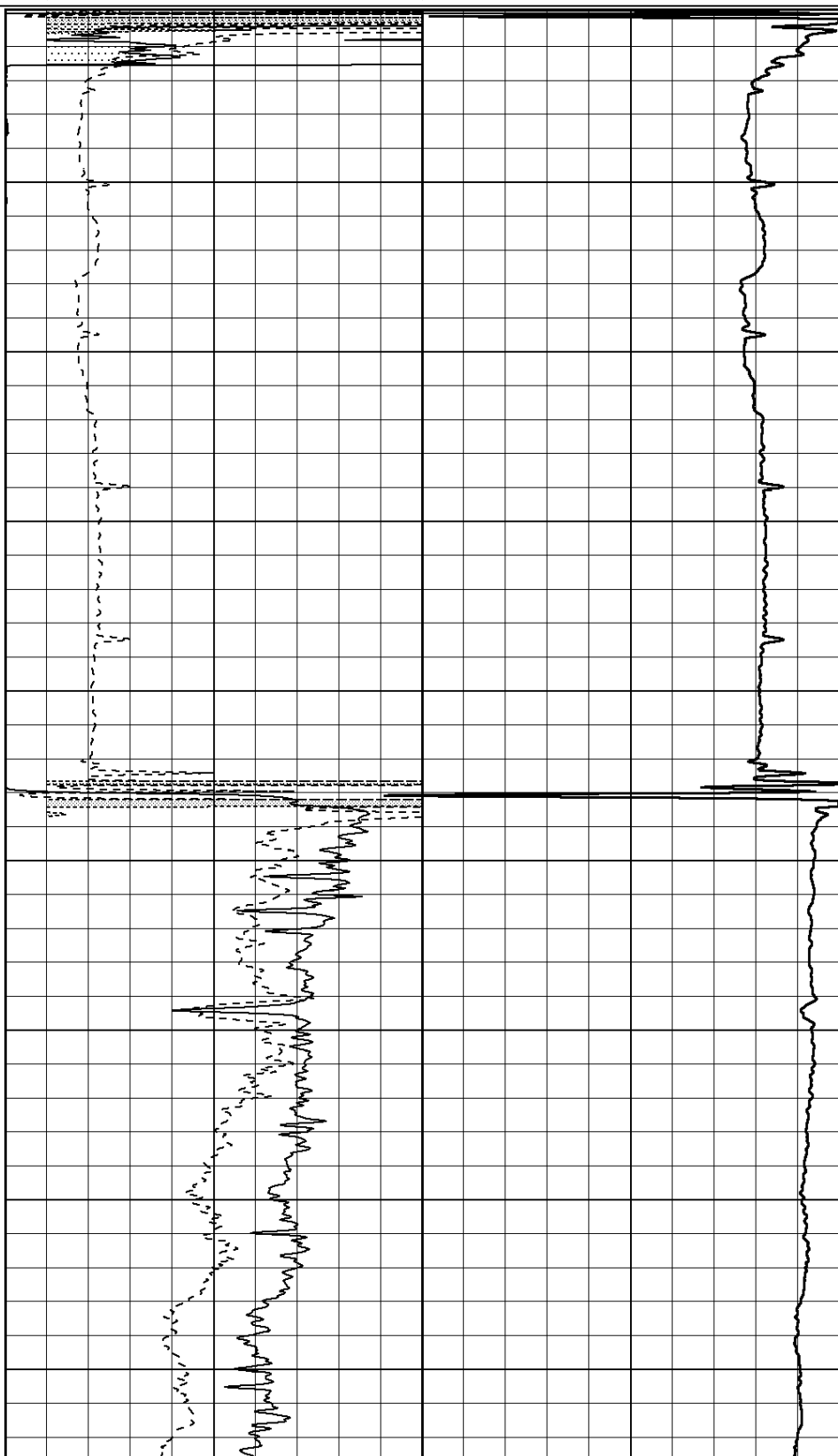
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0	Deep Induction (Ohm-m)	50

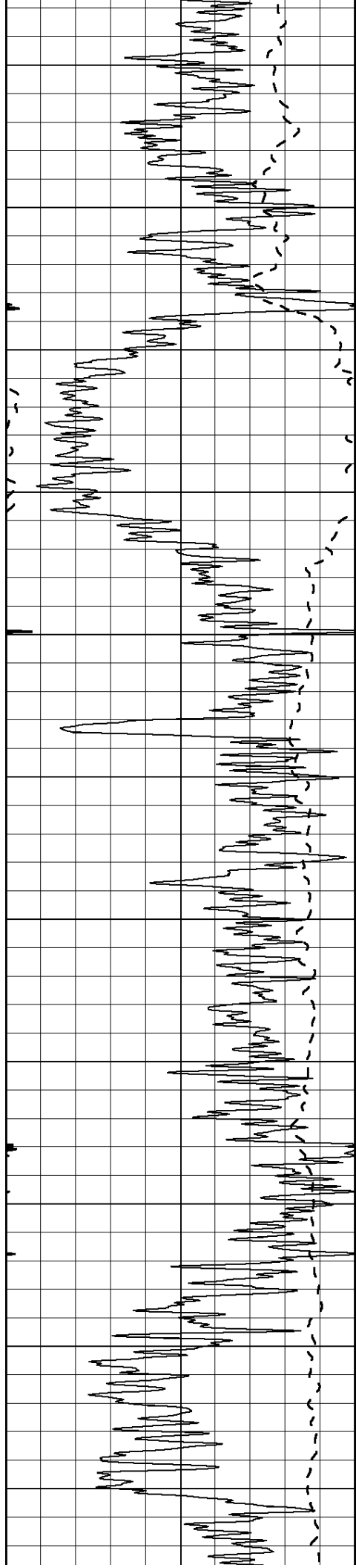
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50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

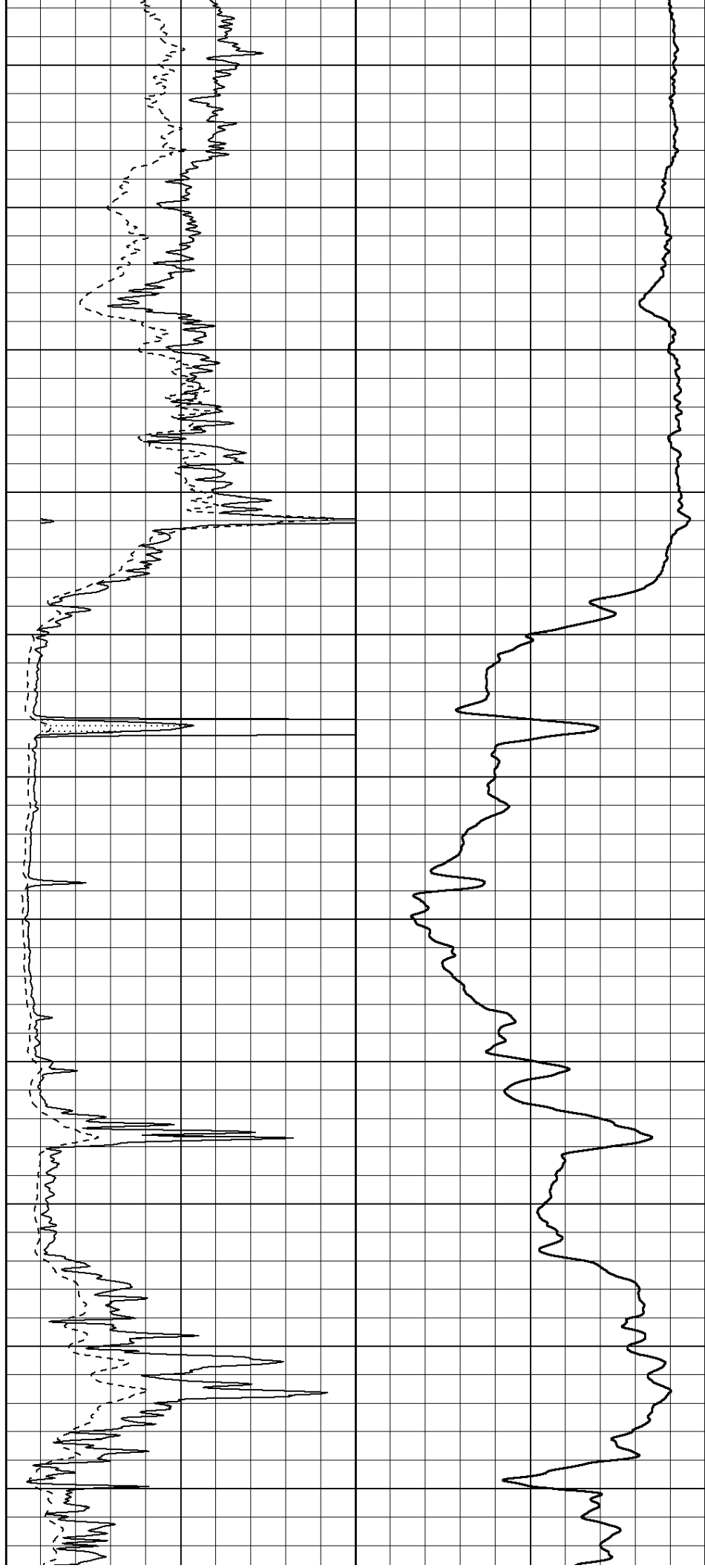


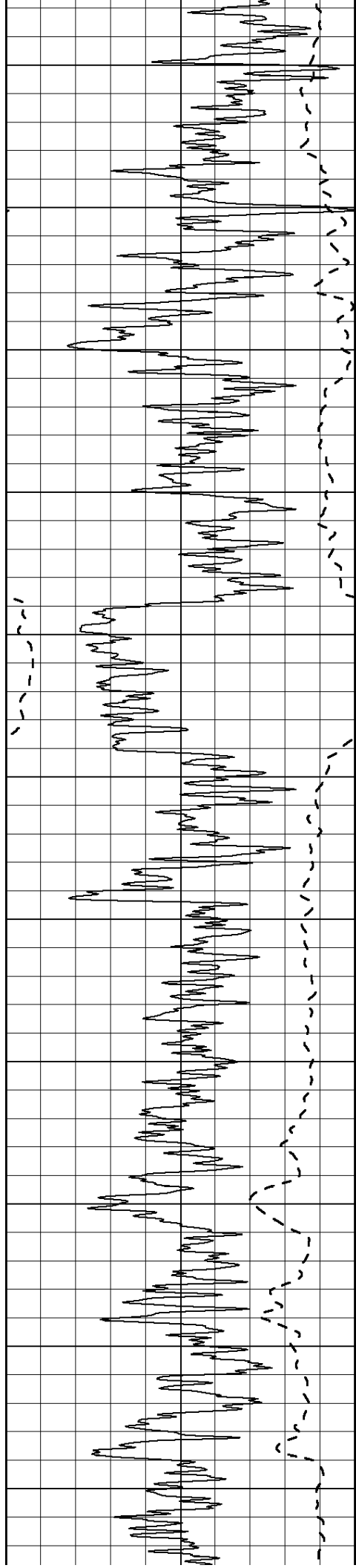
0
50
100
150
200
250
300
350
400



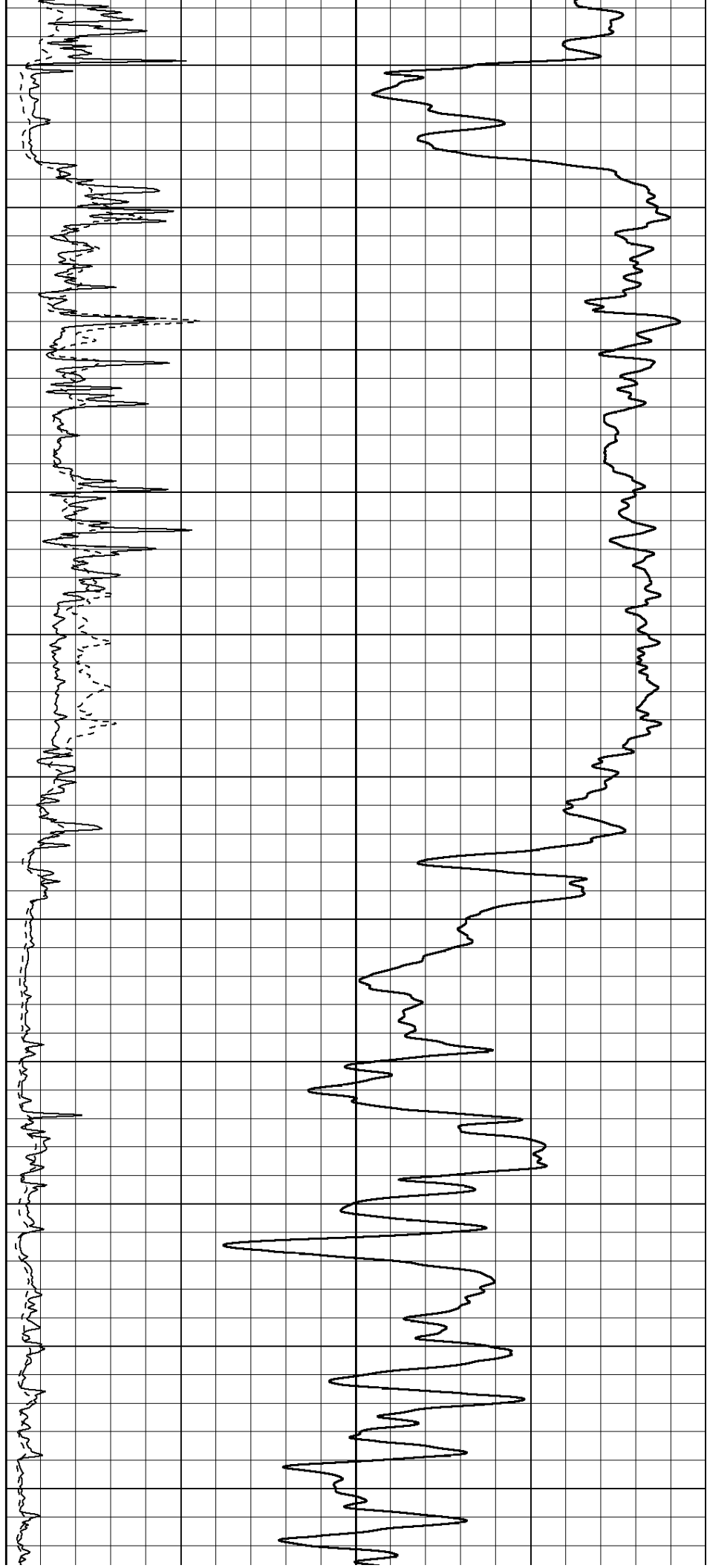


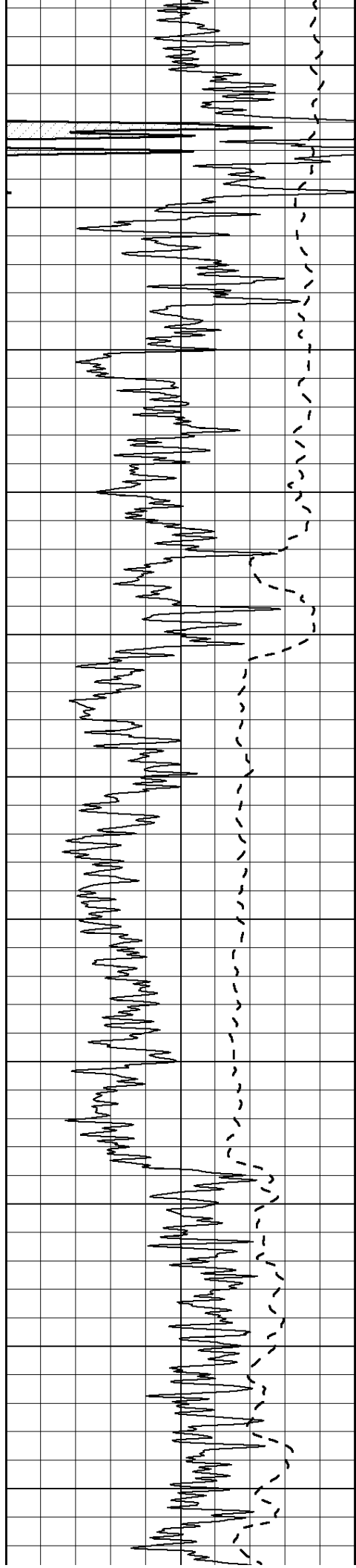
450
500
550
600
650
700
750
800
850
900
950





1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500





1550

1600

1650

1700

1750

1800

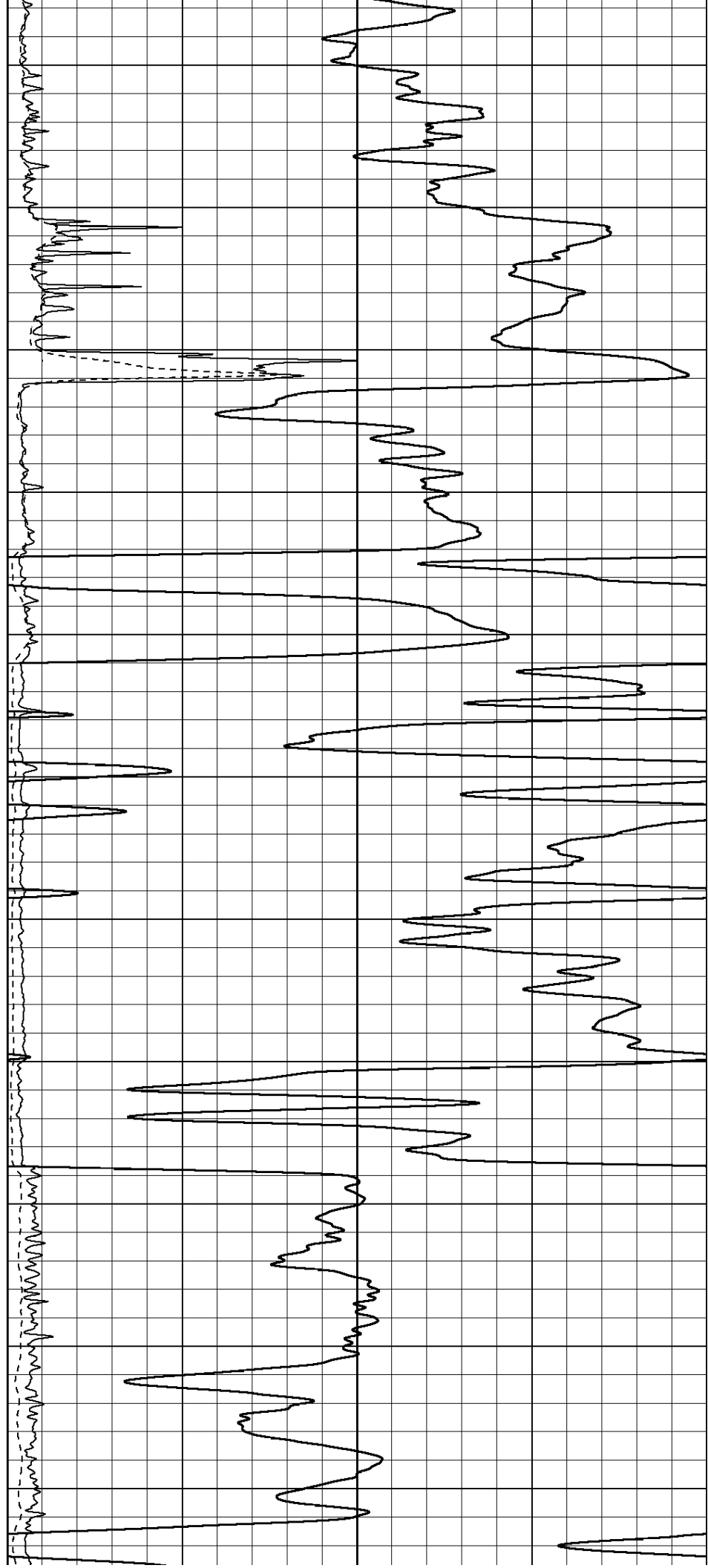
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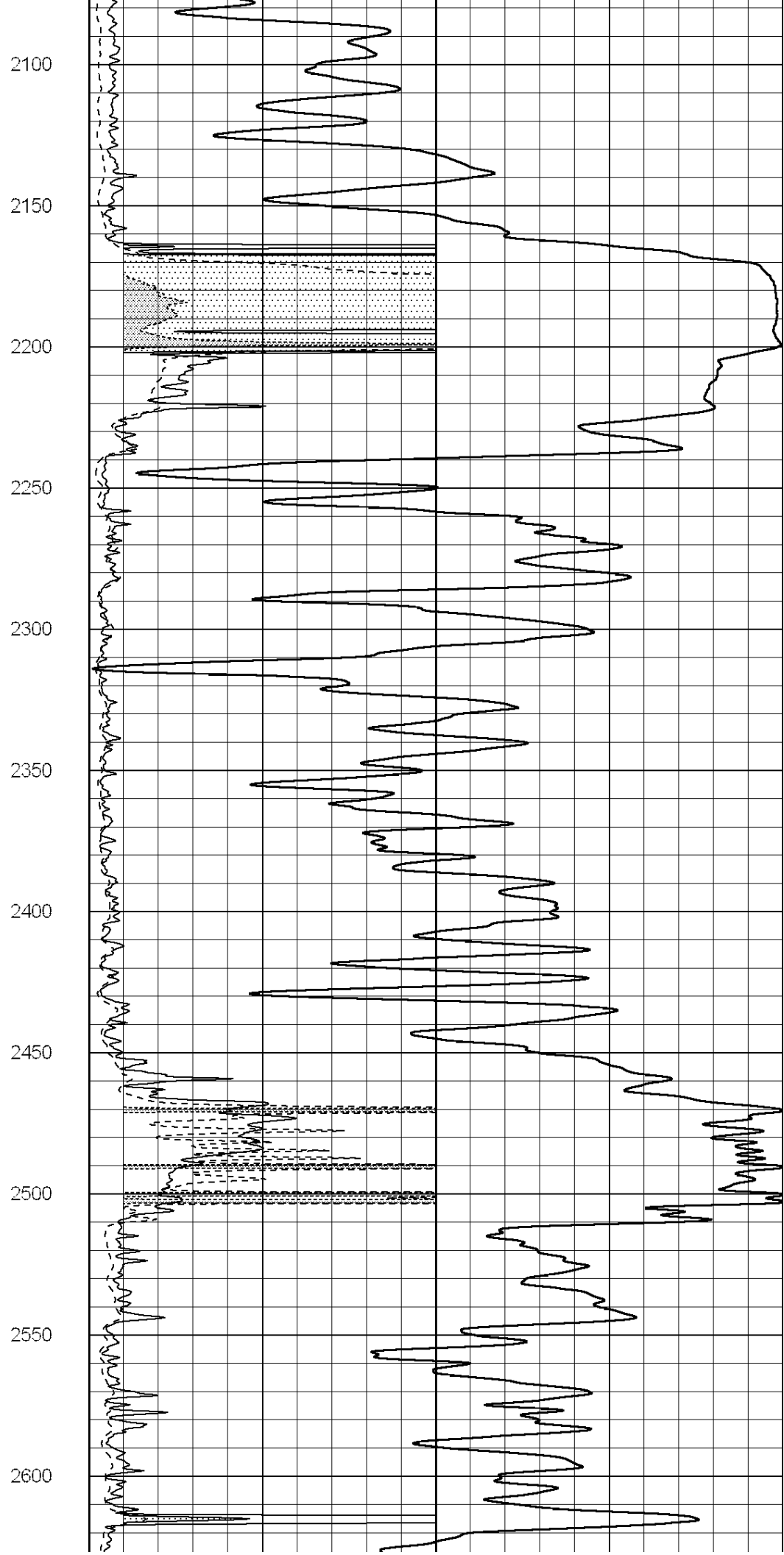
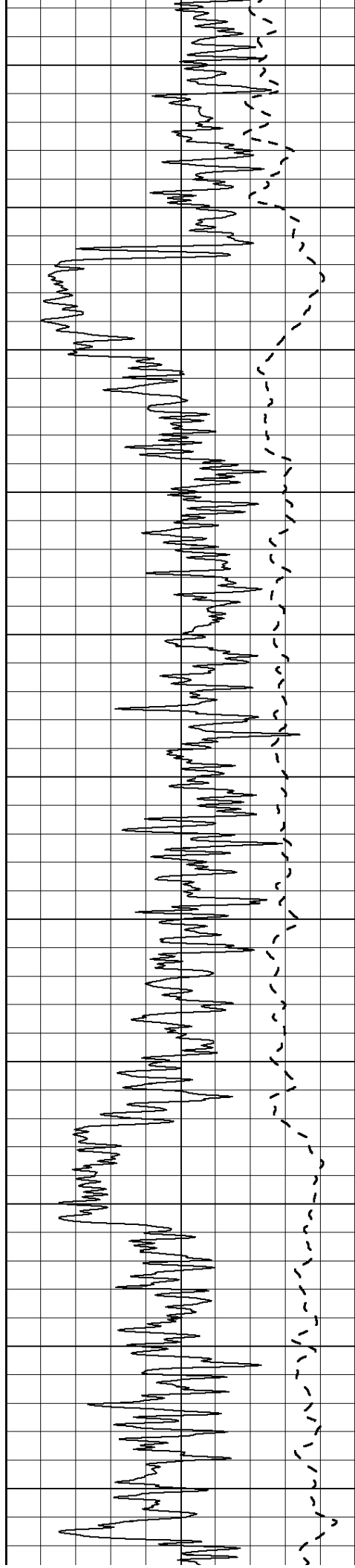
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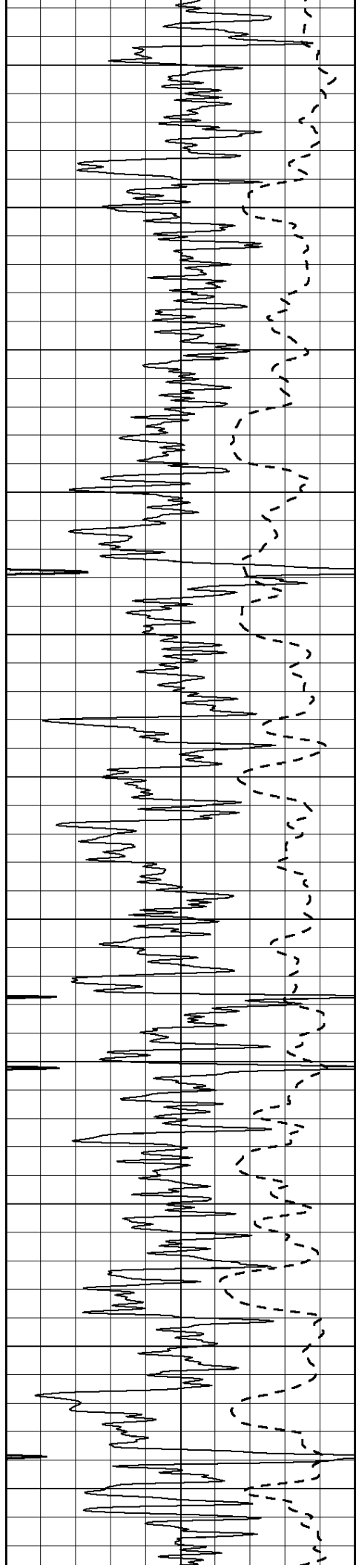
1950

2000

2050







2650

2700

2750

2800

2850

2900

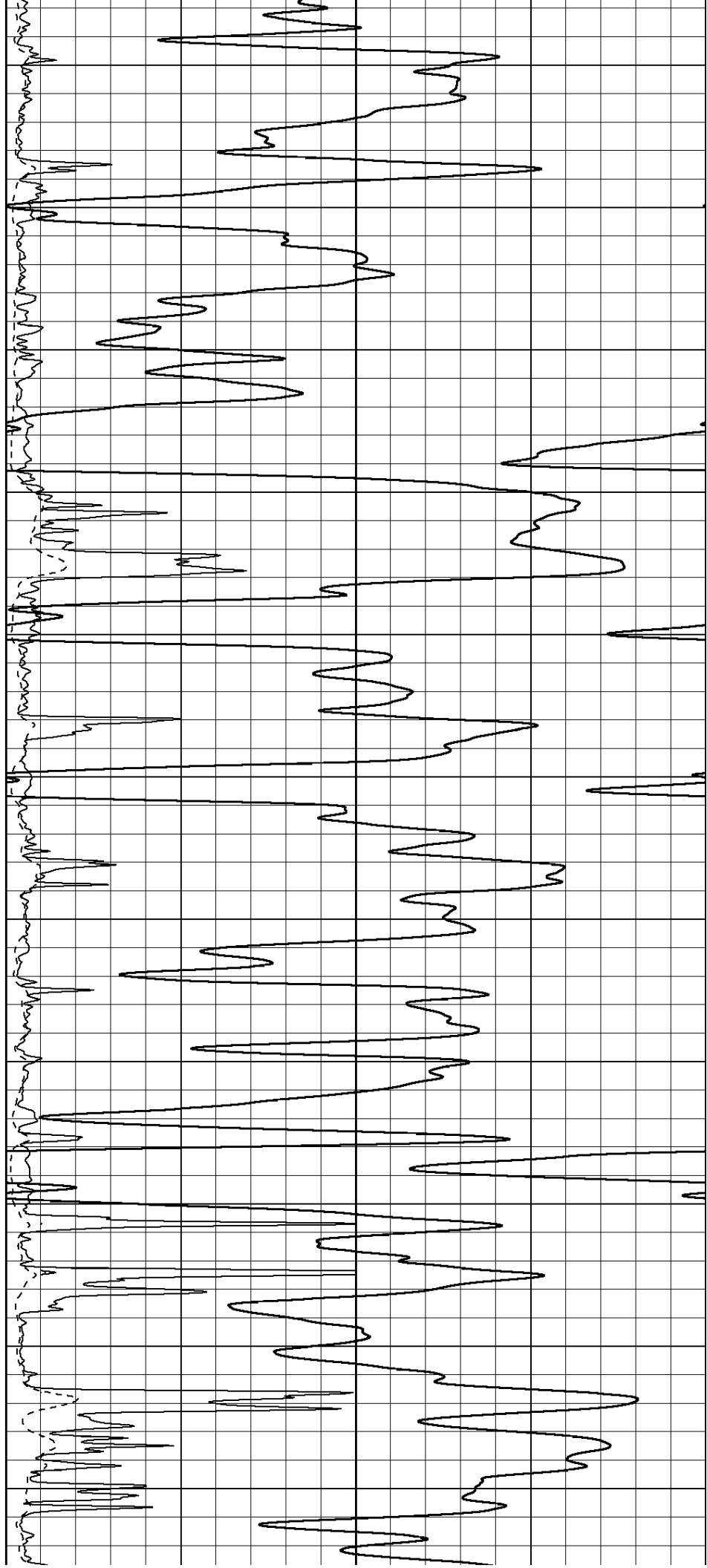
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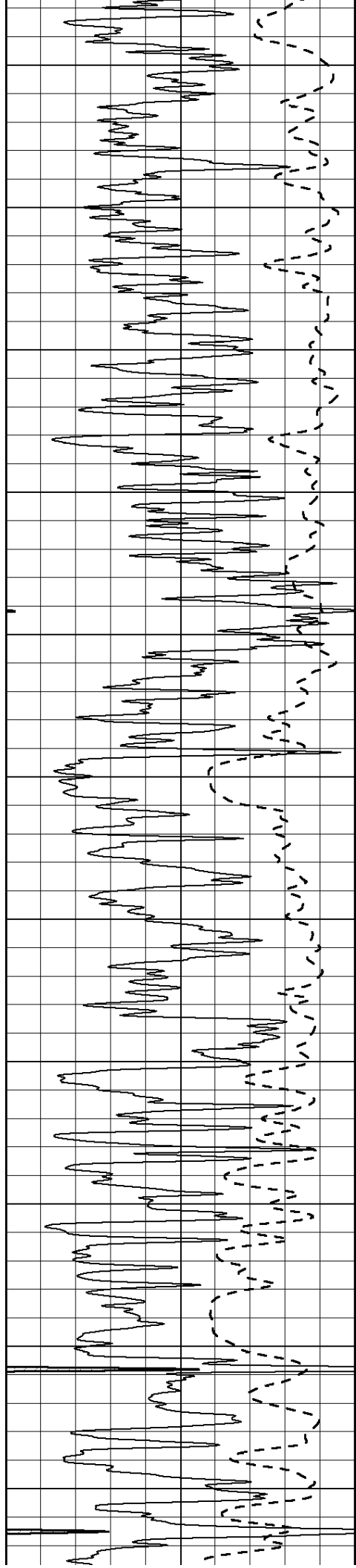
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3050

3100

3150





3200

3250

3300

3350

3400

3450

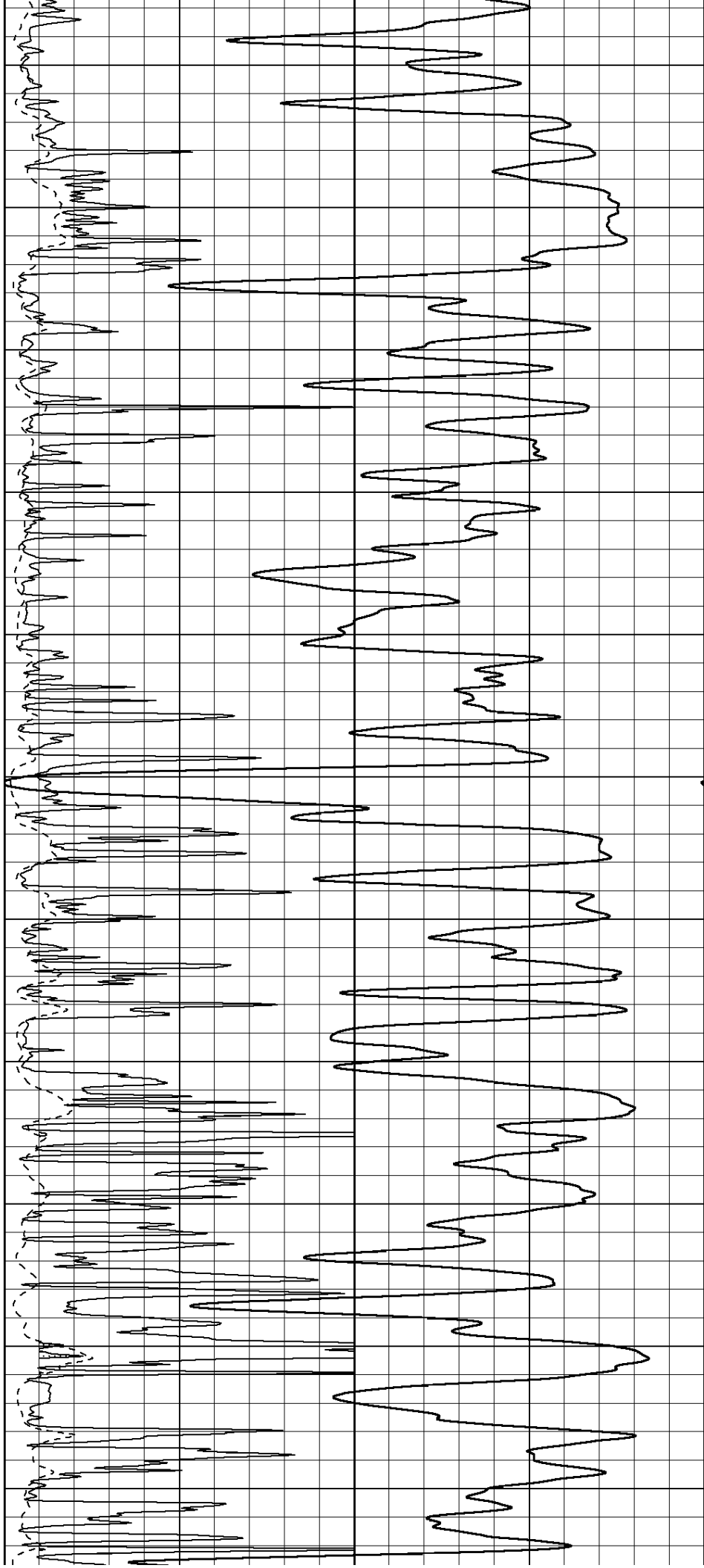
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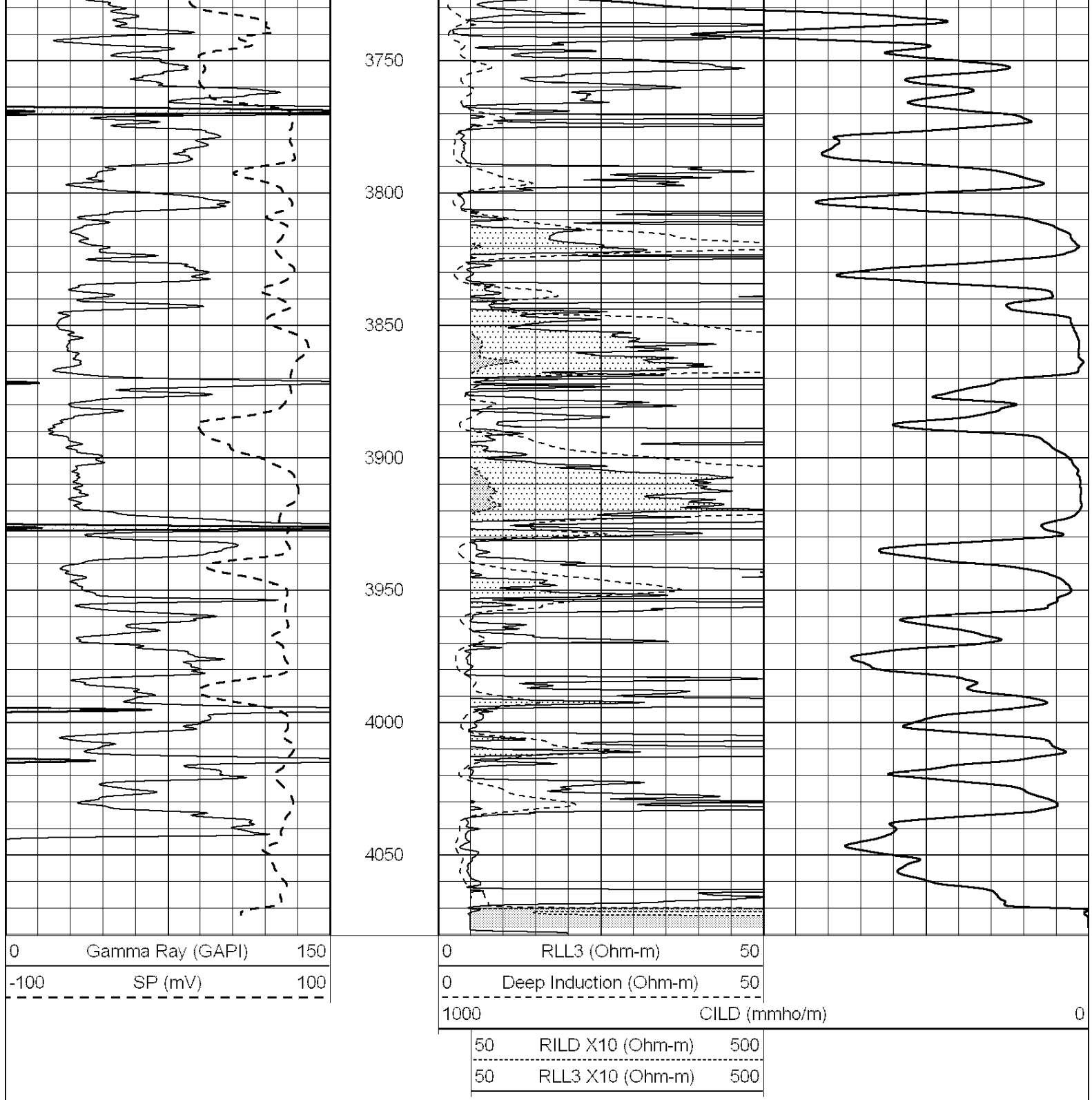
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3600

3650

3700

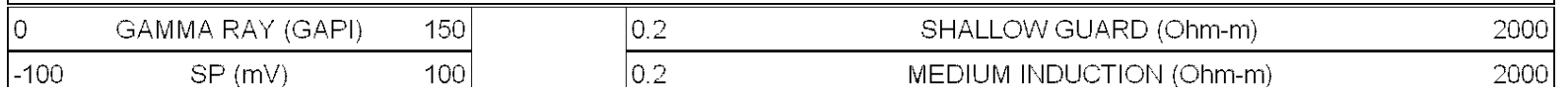




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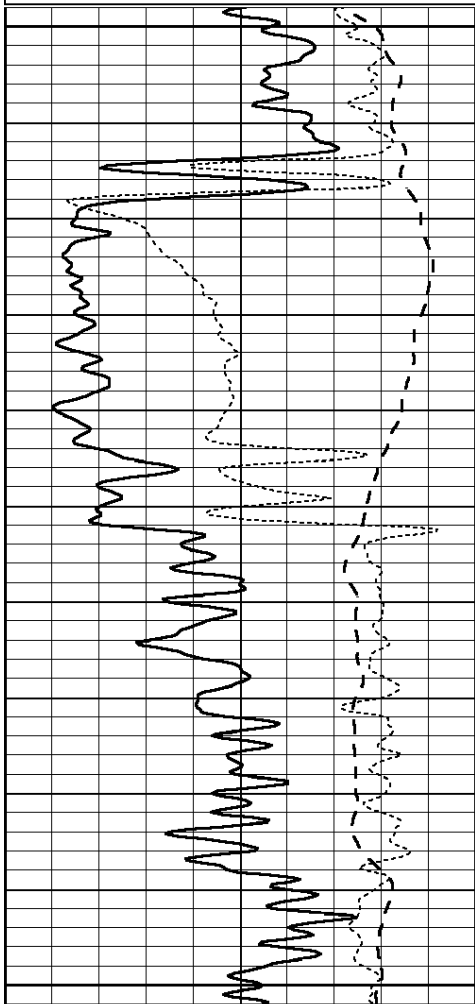
ANHYDRITE

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Dataset Pathname: pass3.3
Presentation Format: _dil
Dataset Creation: Sun Jun 19 22:57:45 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240



-250 Rxo/Rt 50

0.2 DEEP INDUCTION (Ohm-m) 2000

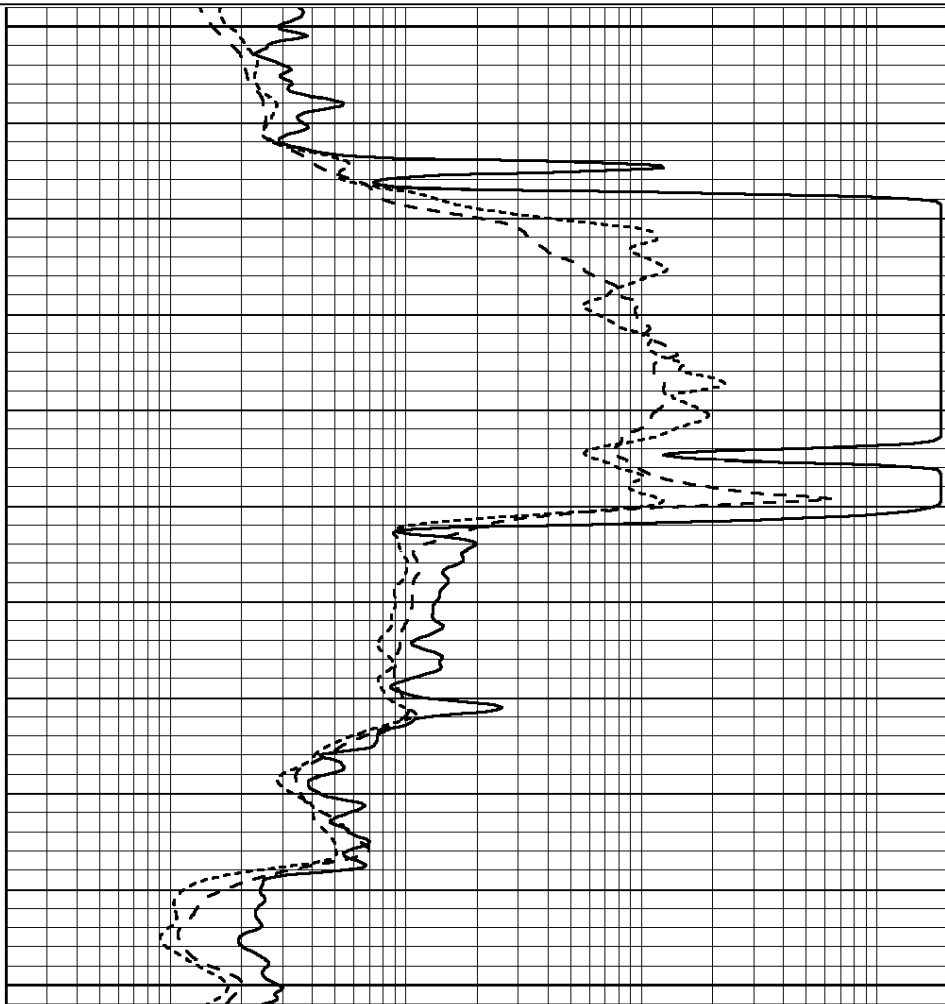


2150

2200

2250

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



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MAIN SECTION

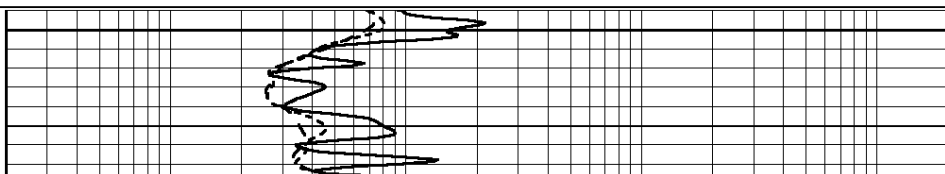
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Dataset Pathname: pass3.1
Presentation Format: _dil
Dataset Creation: Sun Jun 19 22:43:20 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

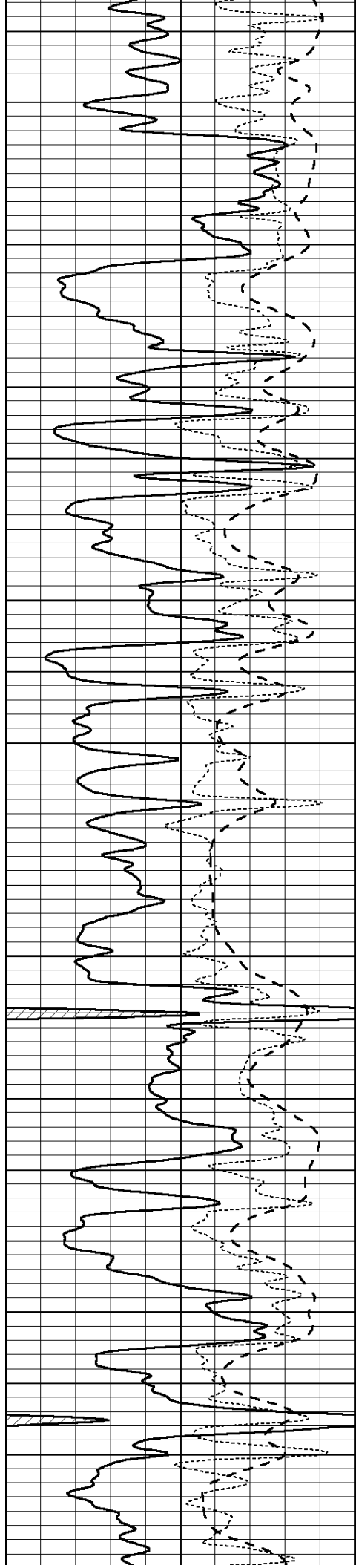
0 GAMMA RAY (GAPI) 150
-100 SP (mV) 100
-250 Rxo/Rt 50

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



3500



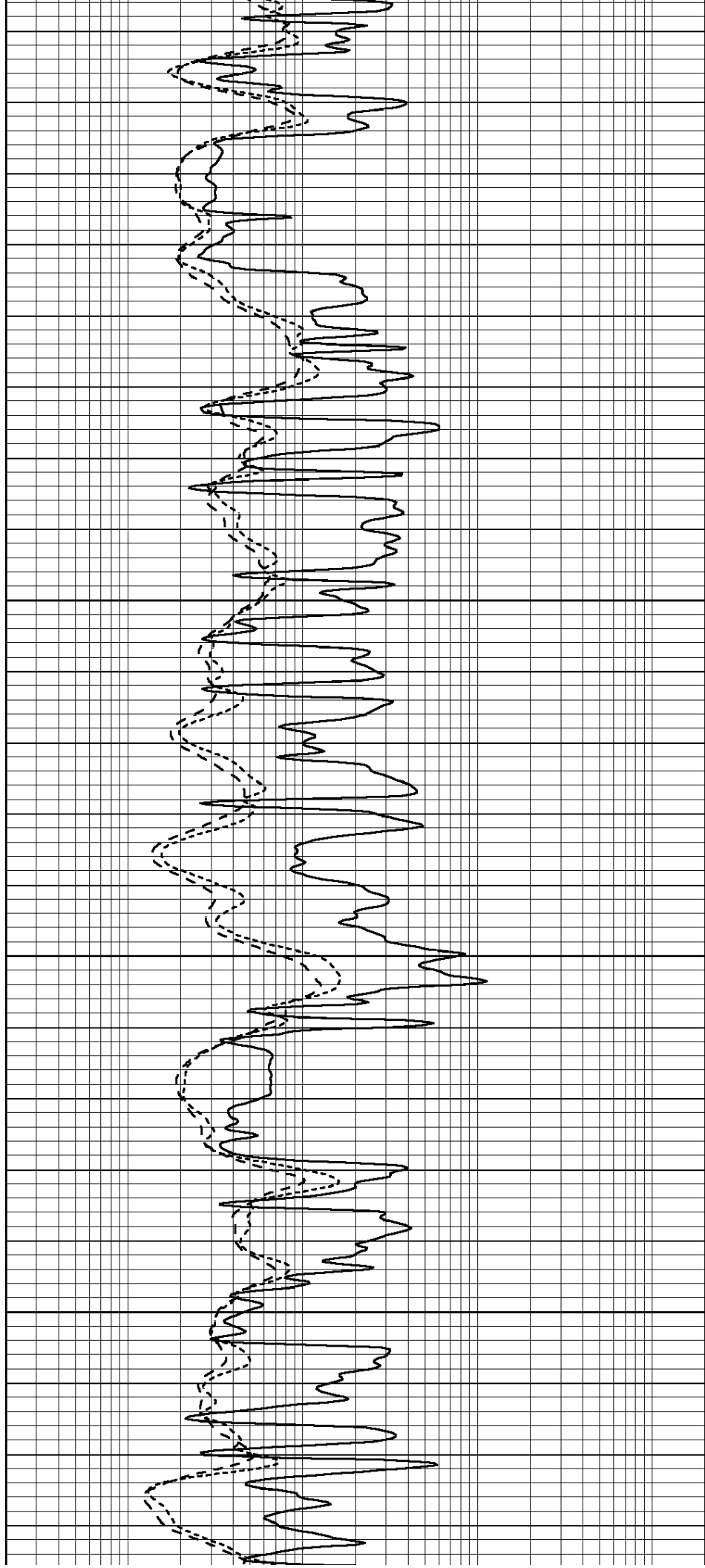


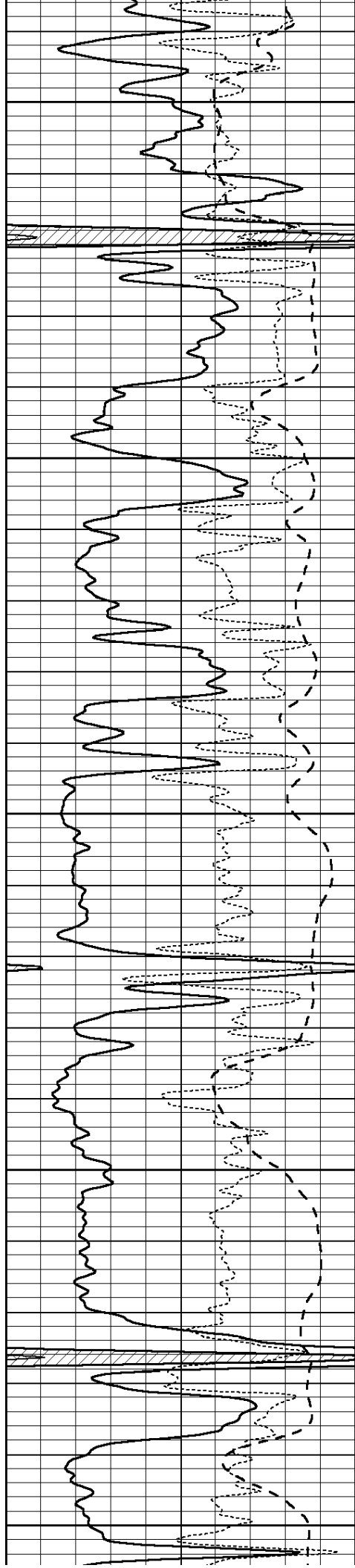
3550

3600

3650

3700





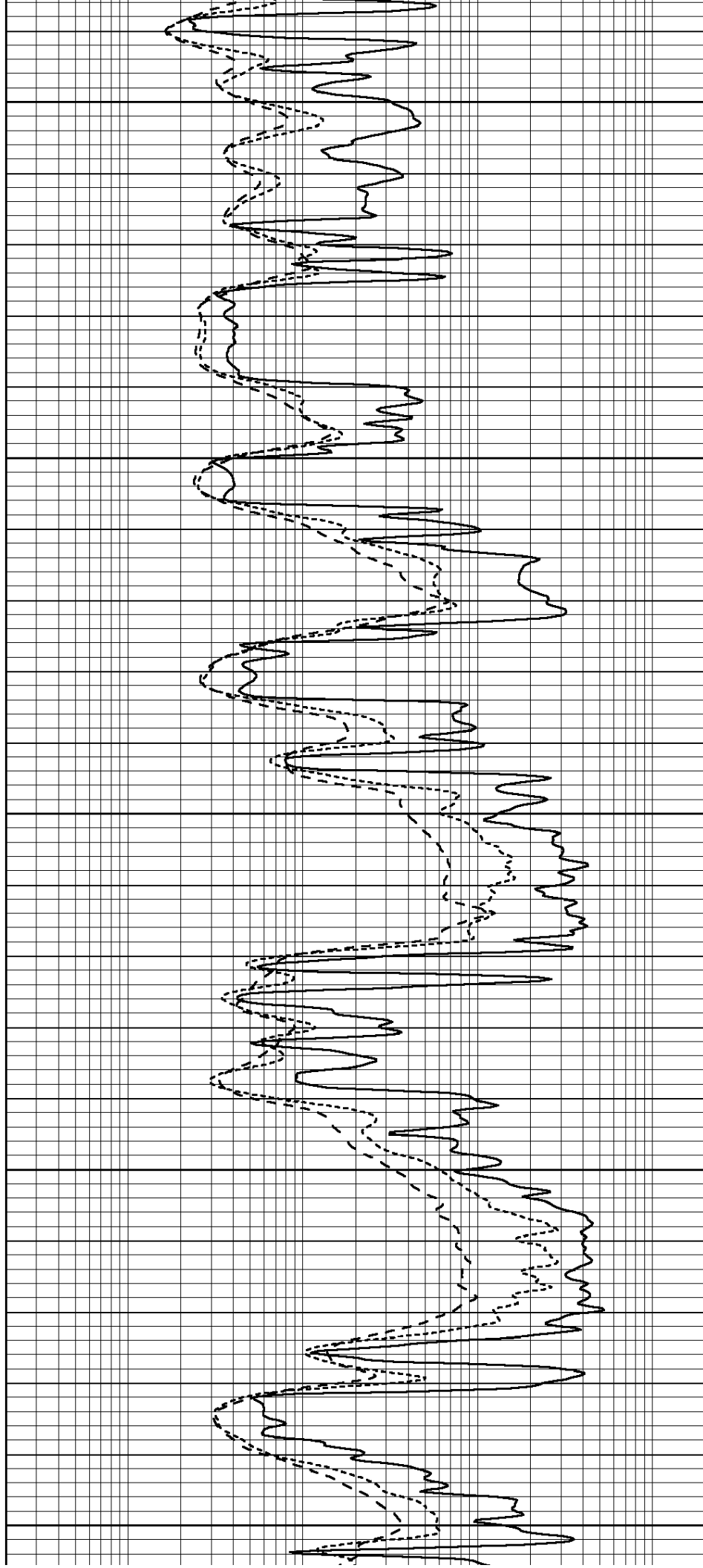
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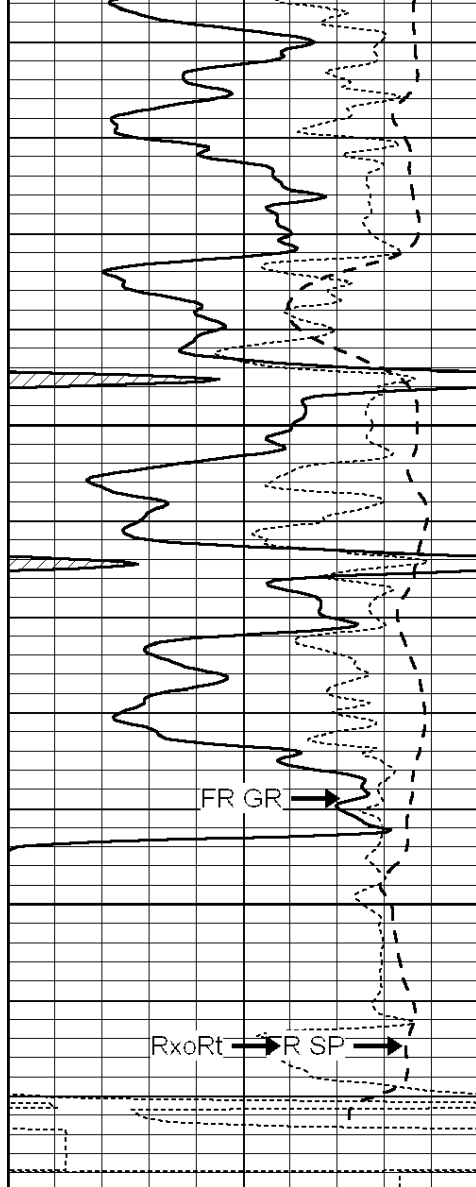
3800

3850

3900

3950



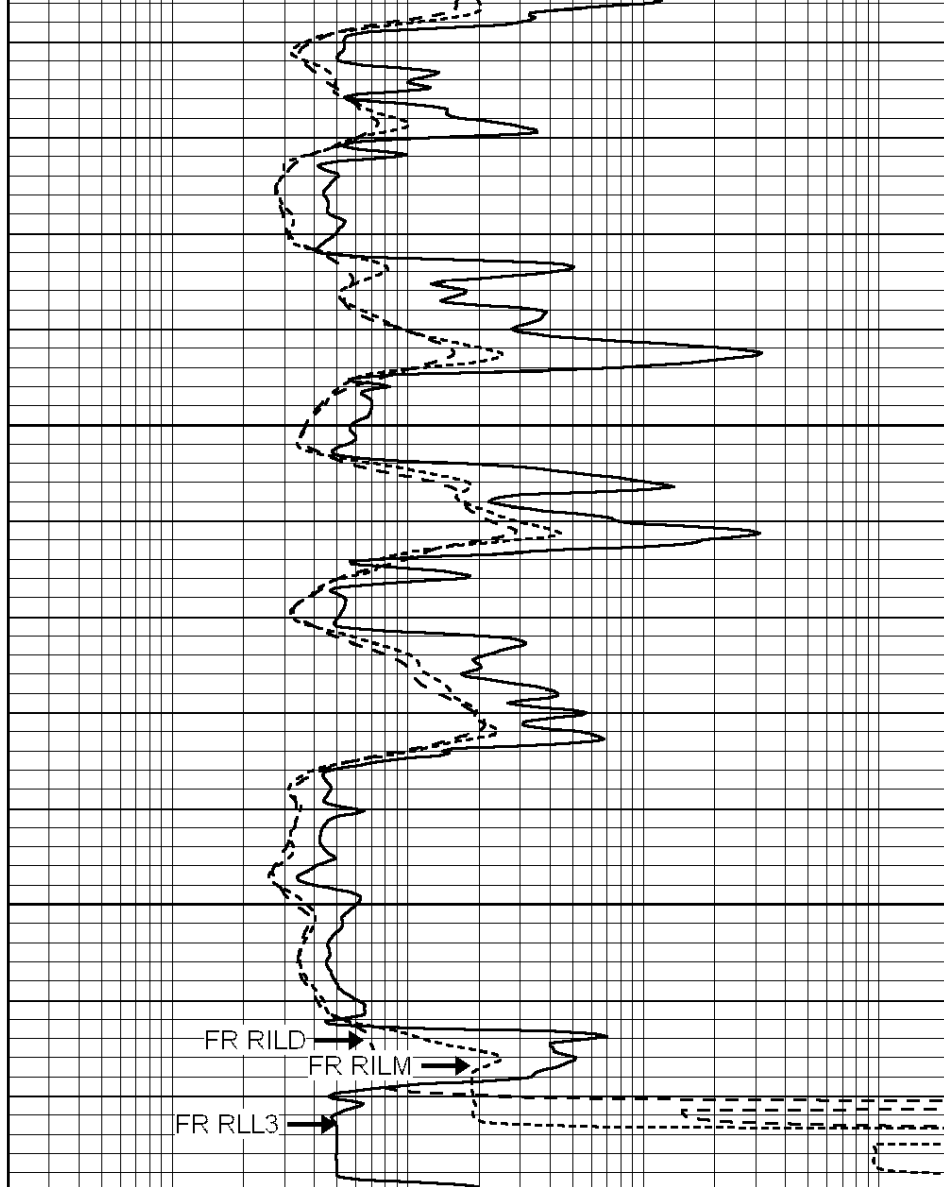


4000

4050

LTD 4075

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



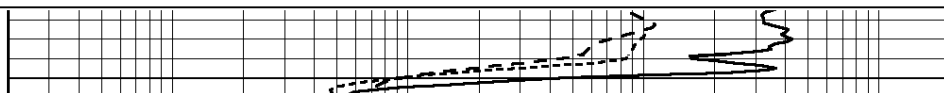
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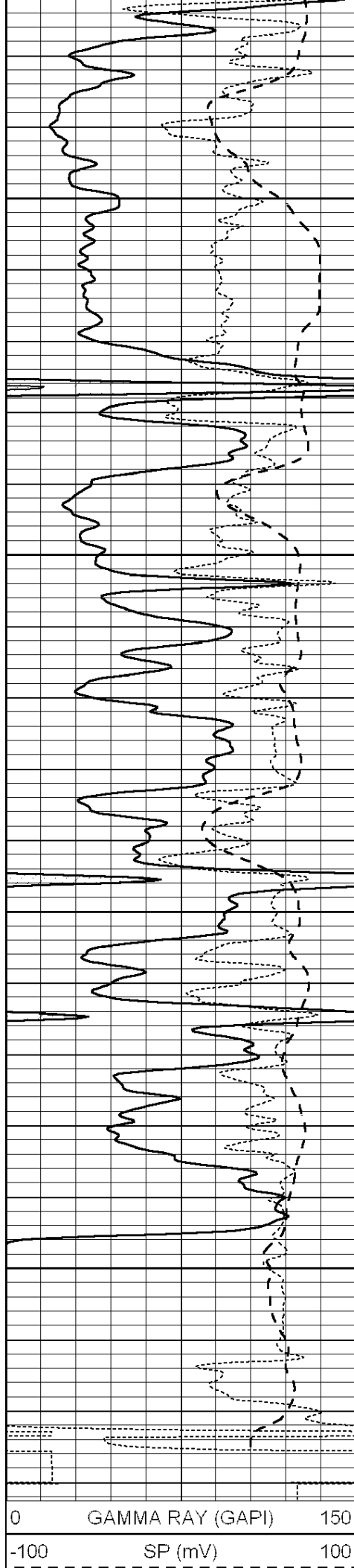
REPEAT SECTION

Database File: 007139ddn.db
 Dataset Pathname: pass2.1
 Presentation Format: _dil
 Dataset Creation: Sun Jun 19 22:53:15 2011 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



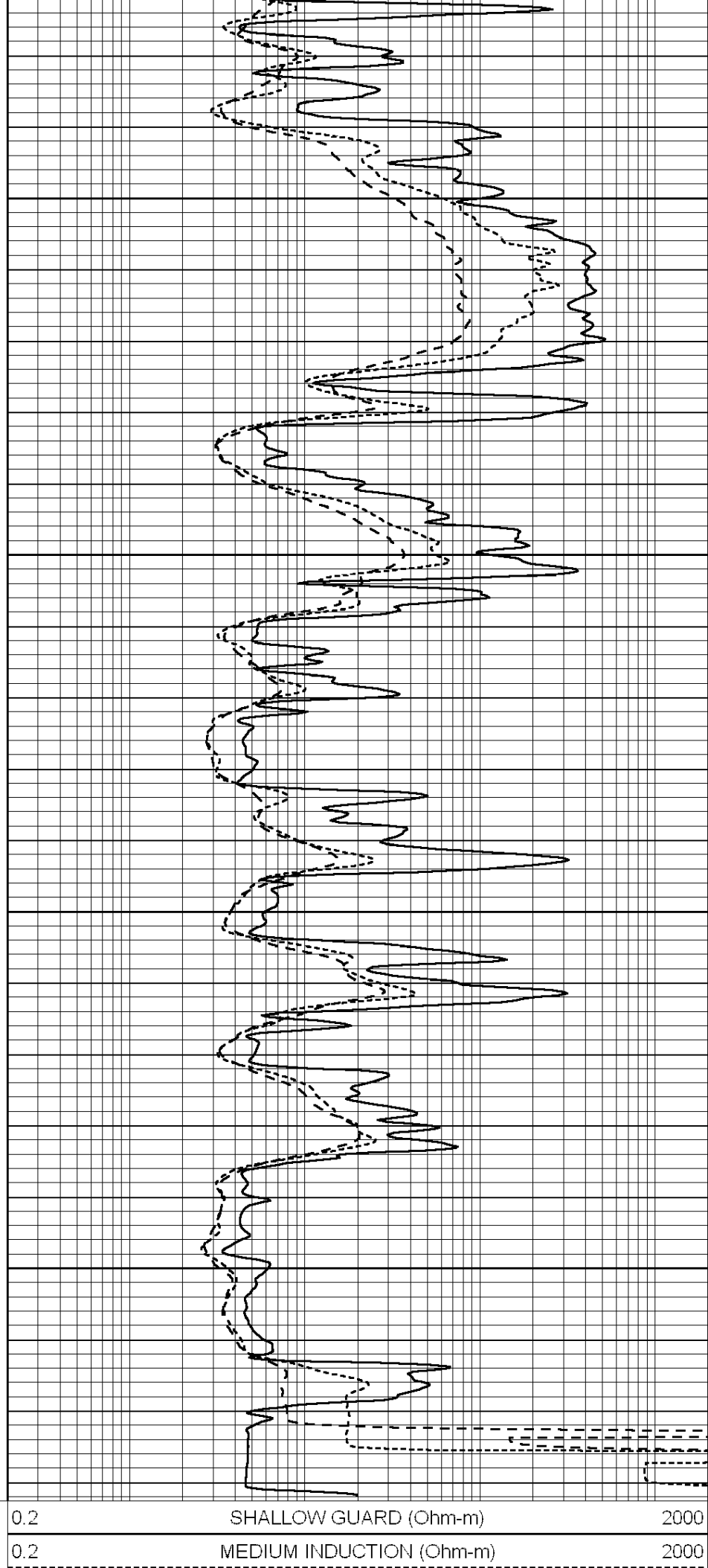


3900

3950

4000

4050



-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000
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Calibration Report					
Database File:	007139ddh.db				
Dataset Pathname:	pass2.1				
Dataset Creation:	Sun Jun 19 22:53:15 2011 by Calc Open-Cased 090629				

Dual Induction Calibration Report					
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Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Wed Jul 30 06:14:24 2008
Downhole Cal Performed:	Mon Jul 28 12:02:56 2008
After Survey Verification Performed:	Mon Jul 28 12:02:56 2008

Surface Calibration								
Readings			References				Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	621.923	8.759
Medium	0.039	0.728	V	0.000	464.000	mmho/m	673.322	-26.058
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration								
Readings			References				Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	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: 002	Model: PRB
Performed Mon Oct 29 15:40:49 2007	

Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	1056.3	9118.0	2809.7	10378.4	cps
Window 2	969.9	7671.9	2431.6	8565.8	cps
Window 3	683.8	2939.8	1161.0	3161.8	cps
Window 4	231.4	231.6	226.7	230.8	cps
Long Space	0.0	6702.0	1461.7	7595.9	cps
Short Space	1.2	1433.6	959.4	1568.6	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	

Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio	: 0.559
Spine Angle	: 75.2	Spine Slope	: 3.791	Spine Intercept	: -18.7
Caliper					
Low Ref	Readings 2.8	Reference 8.0			
High Ref	5.0	14.0			
	Gain: 2.7		Offset: -1.0		
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		