



SUPERIOR
Hays,
Kansas

RADIATION
GUARD
LOG

Company		RITCHIE EXPLORATION, INC.	
Well		GRAUL #1	
Field		BIN SOUTH	
County		TREGO	
State		KANSAS	
Company		RITCHIE EXPLORATION, INC.	
Well		GRAUL #1	
Field		BIN SOUTH	
County		TREGO	
State		KANSAS	
Location:		API # : 15-195-22812-0000 2301' FSL & 1860' FWL	
Permanent Datum		GROUND LEVEL Elevation 2418	
Log Measured From		KELLY BUSHING 8' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 32 TWP 11S RGE 22W		Elevation K.B. 2426 D.F. 2424 G.L. 2418	
Date	9/19/12		
Run Number	ONE		
Depth Driller	4139		
Depth Logger	4135		
Bottom Logged Interval	4133		
Top Log Interval	00		
Casing Driller	8 5/8" @ 230		
Casing Logger	229		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4/48		
pH / Fluid Loss	10.0/8.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.95 @ 80F		
Rmf @ Meas. Temp	.71 @ 80F		
Rmc @ Meas. Temp	1.14 @ 80F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.64 @ 117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	117F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	MAX LOVELY		

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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

I 70 & OGALLAH EXIT - 3 N. TO RD. H - 3 W. TO RD. 300 - 1 1/2 N. - E. INTO

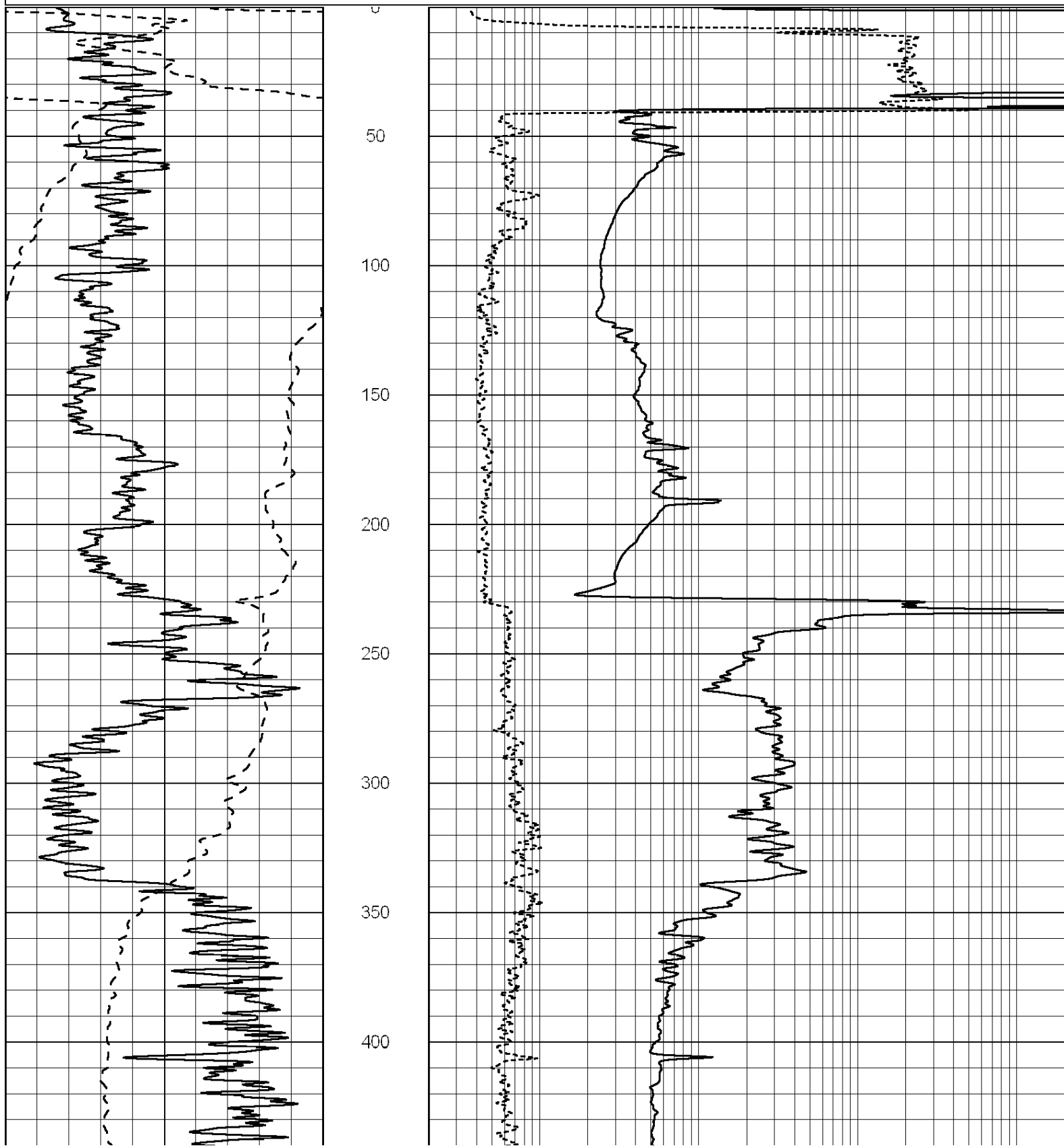


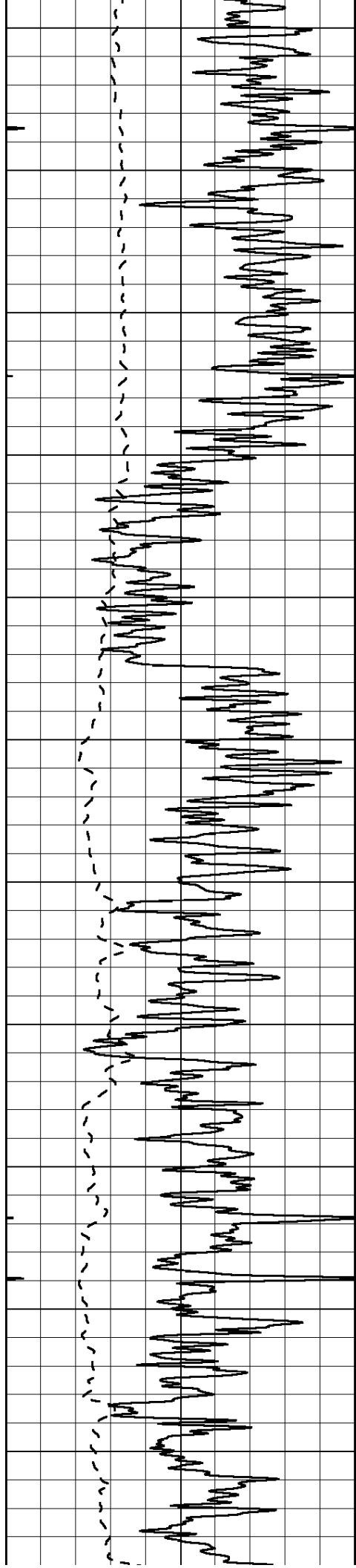
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MAIN SECTION

Database File: 009732rag.db
Dataset Pathname: pass3.2
Presentation Format: rag2
Dataset Creation: Wed Sep 19 08:43:44 2012 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	150	ABHV (ft3)	0.2	GUARD (Ohm-m)	2000
-100	SP (mV)	100		0	NEUTRON (NAPI)	1000
-----			TBHV (ft3)	-----		





450

500

550

600

650

700

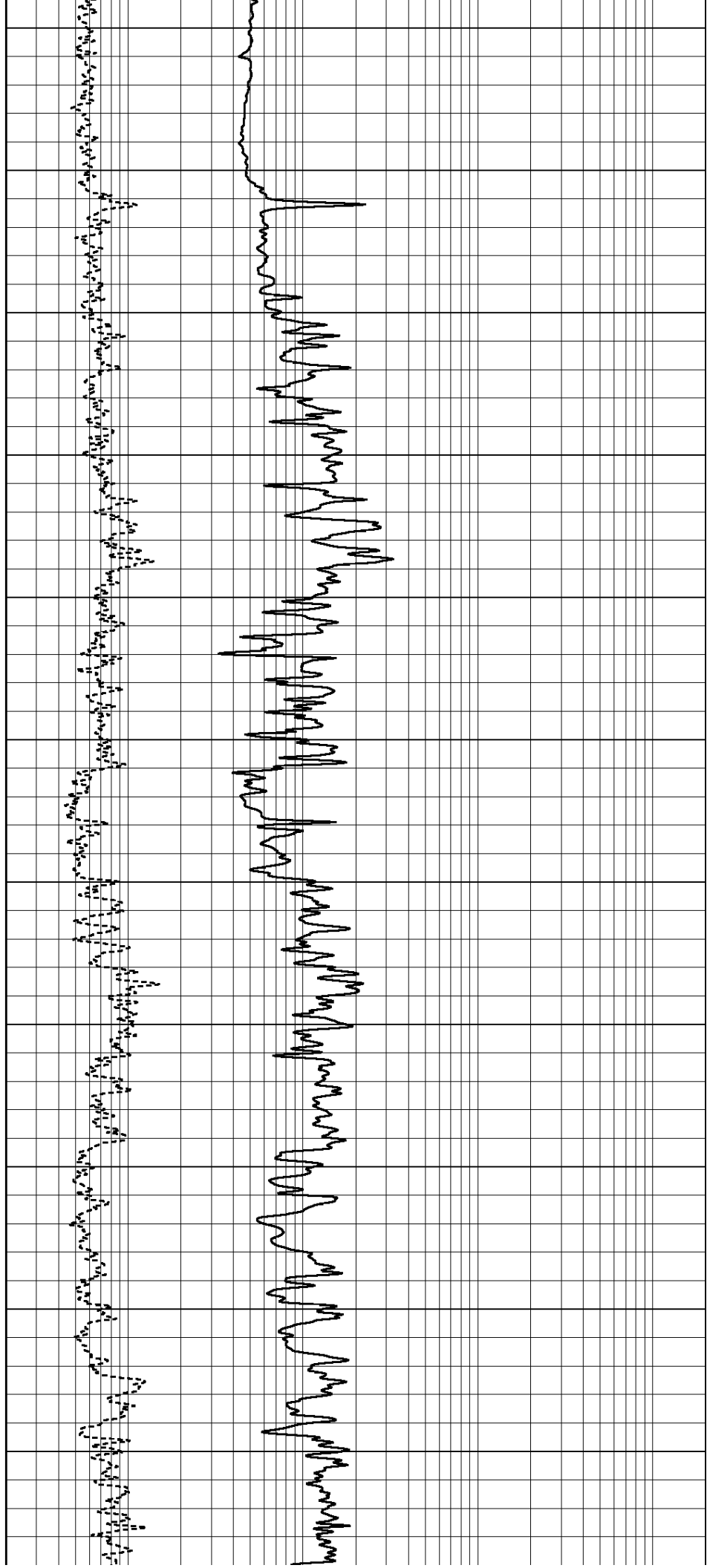
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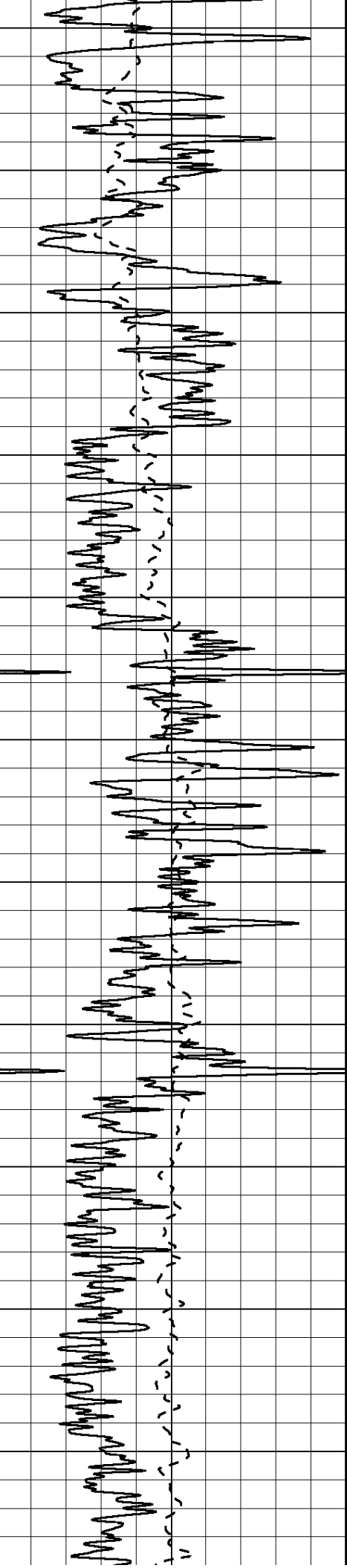
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850

900

950





1000

1050

1100

1150

1200

1250

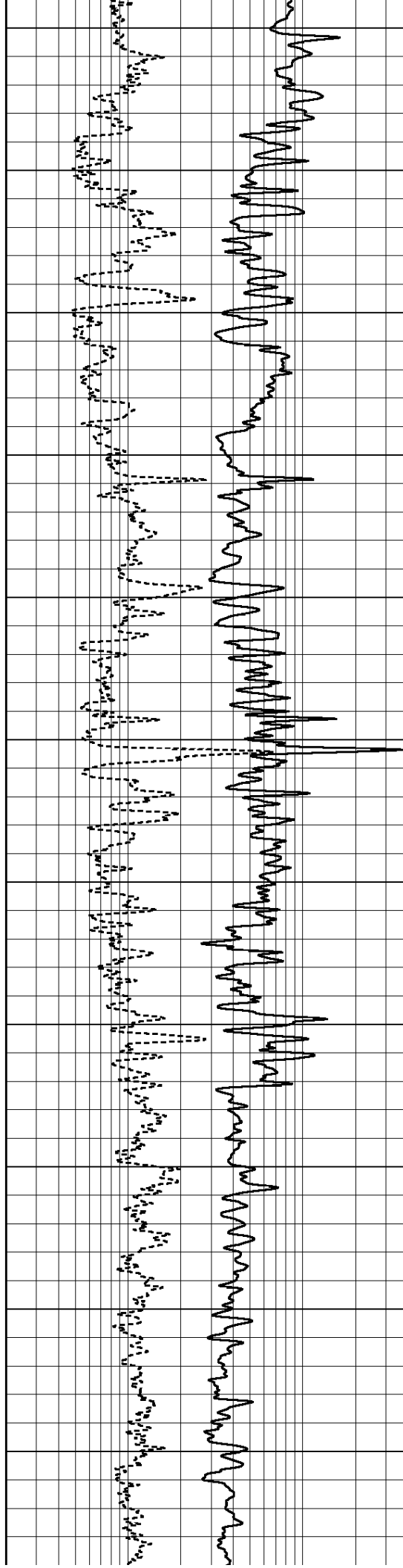
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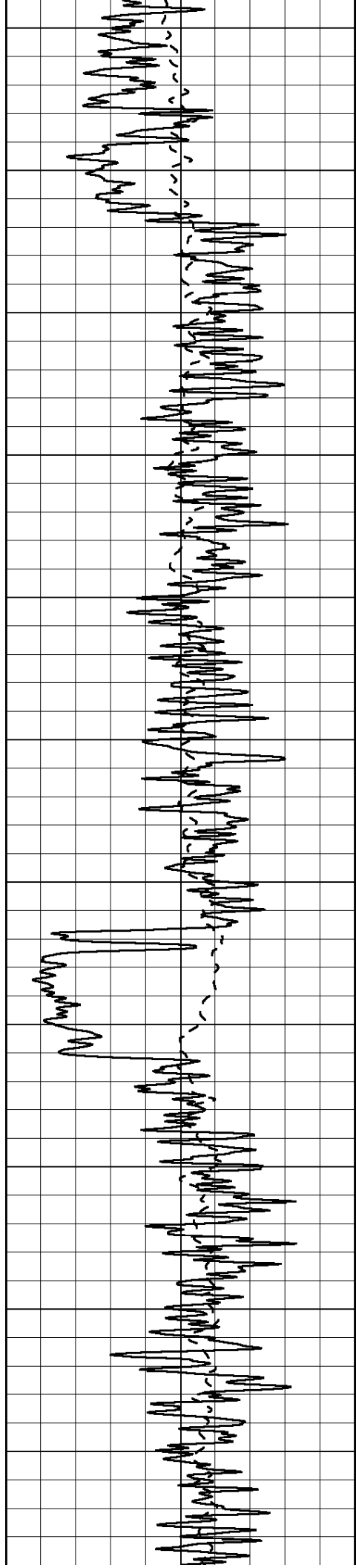
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1500





1550

1600

1650

1700

1750

1800

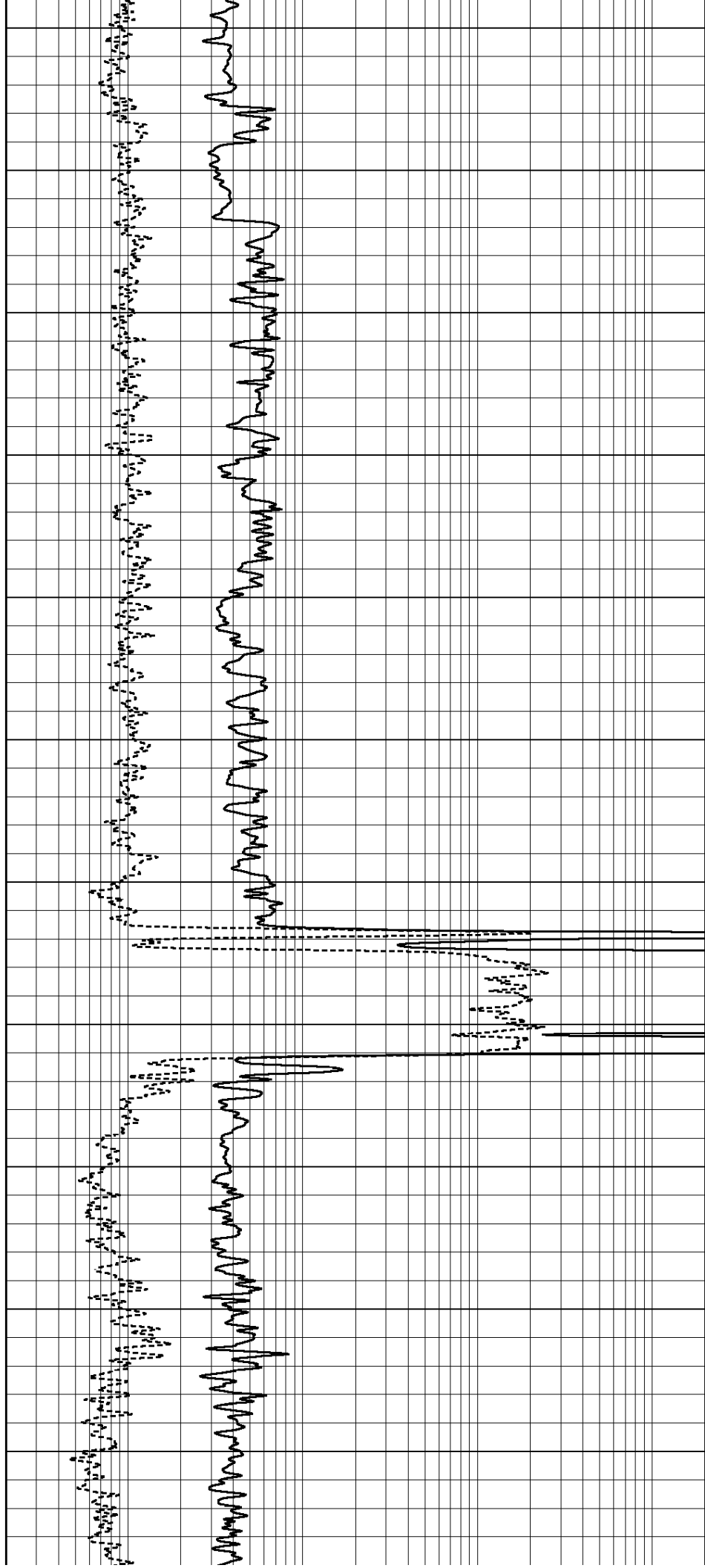
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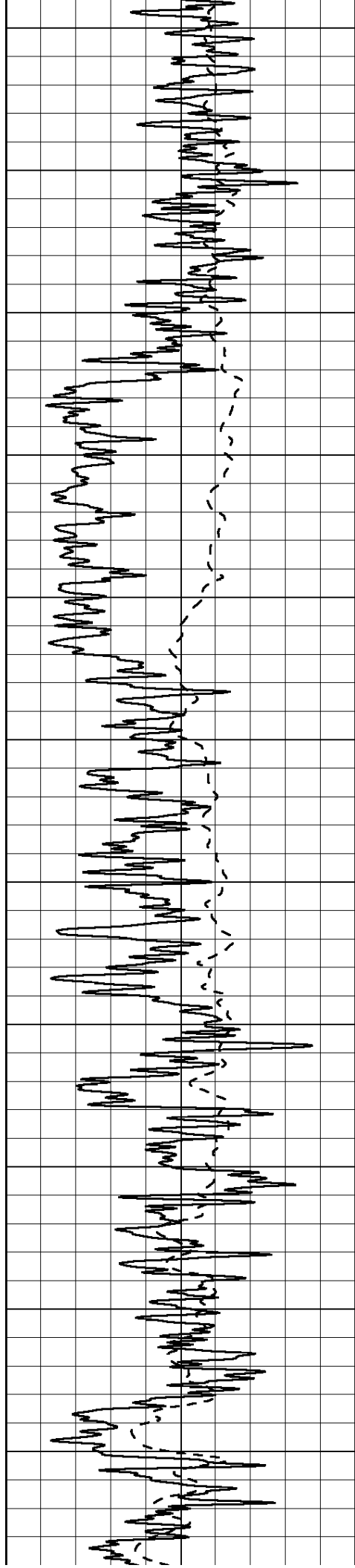
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1950

2000

2050





2100

2150

2200

2250

2300

2350

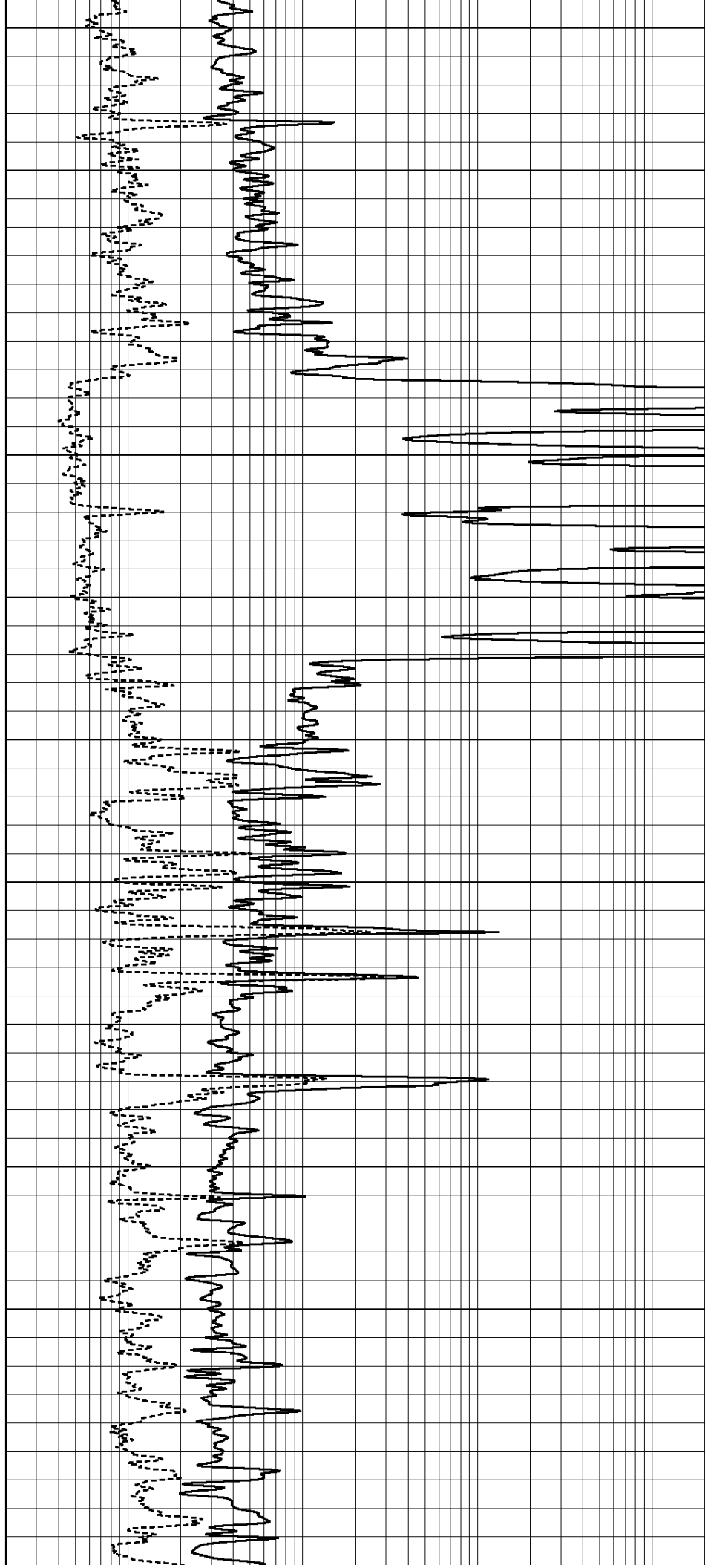
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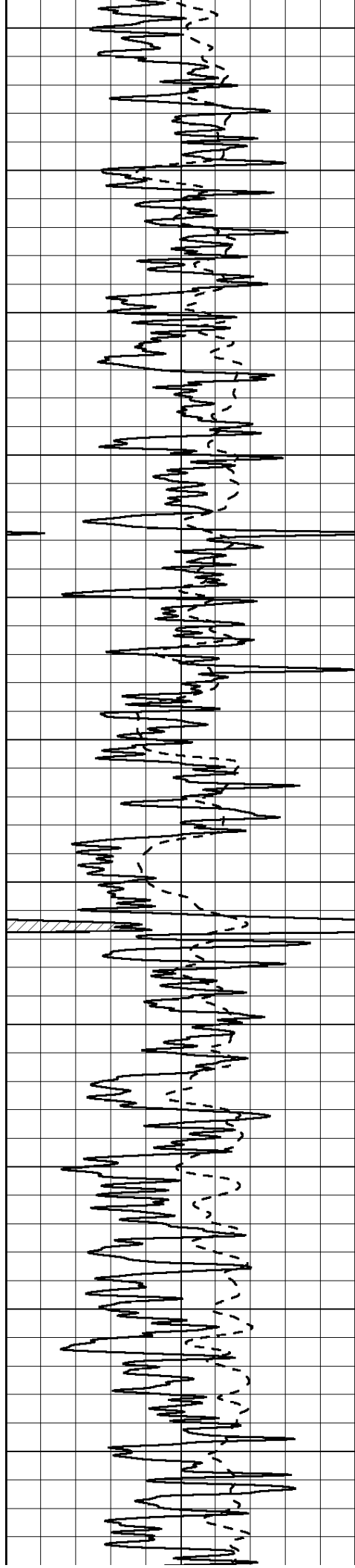
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2500

2550

2600





2650

2700

2750

2800

2850

2900

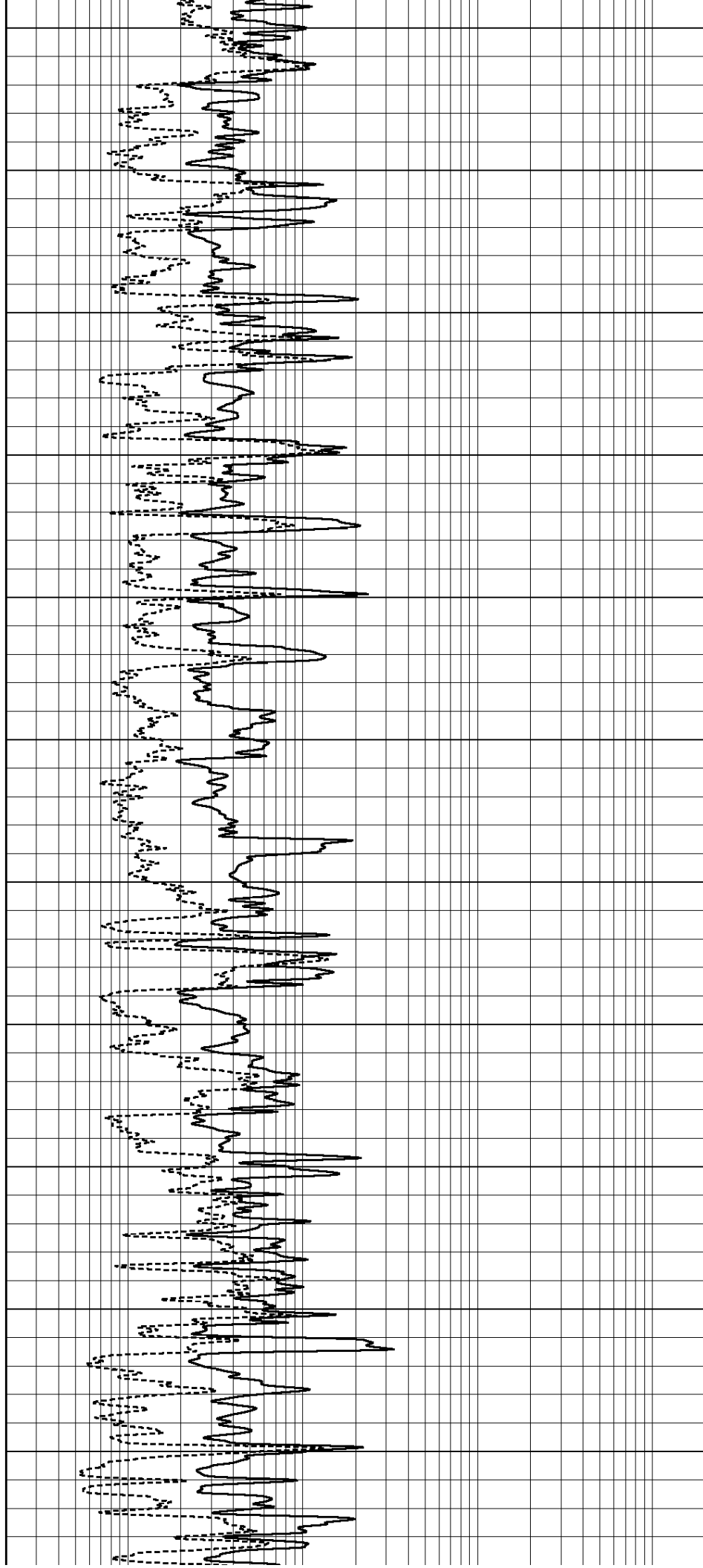
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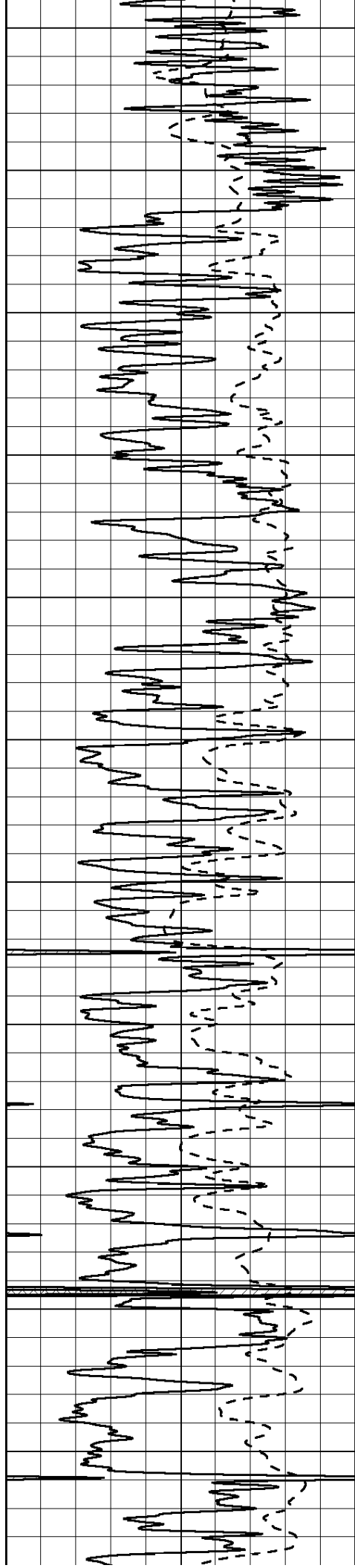
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3100

3150





3200

3250

3300

3350

3400

3450

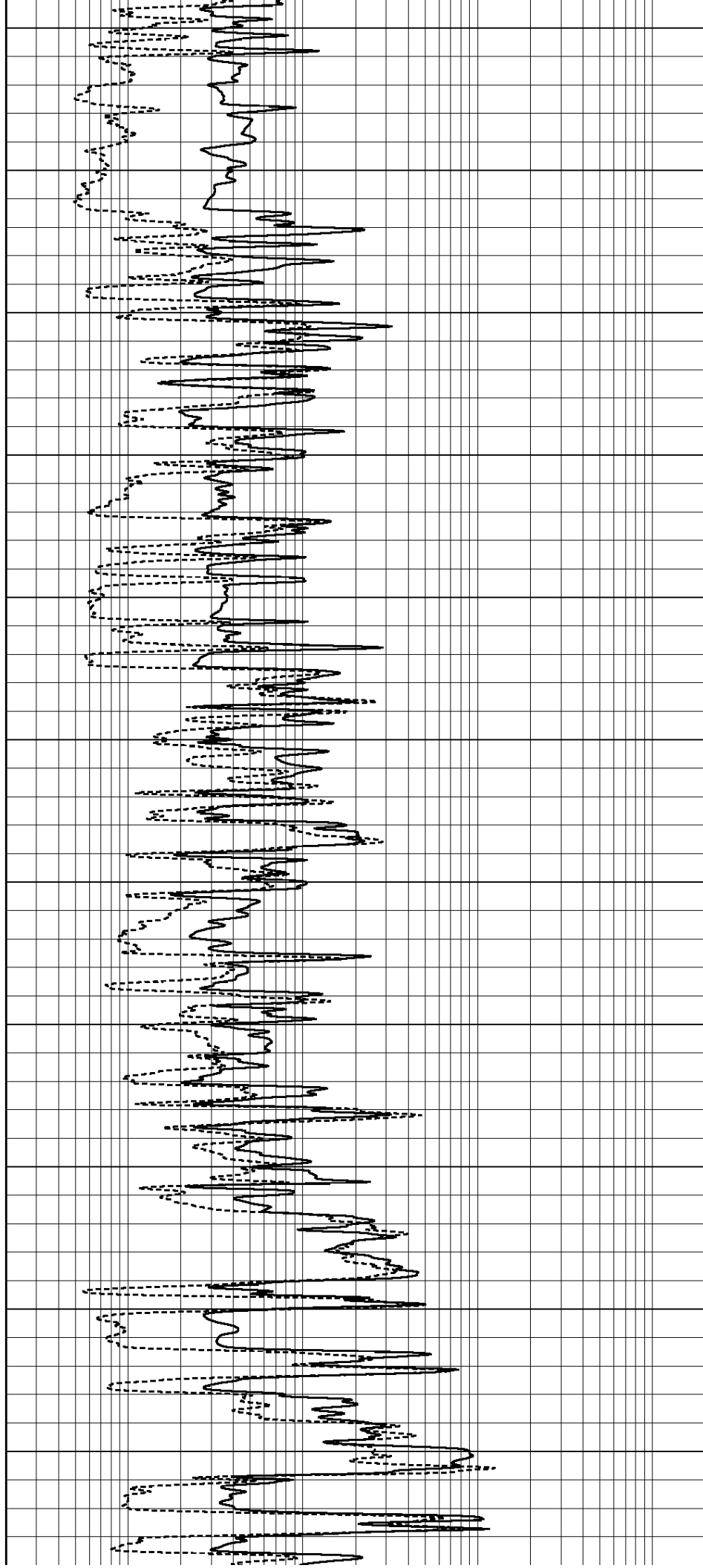
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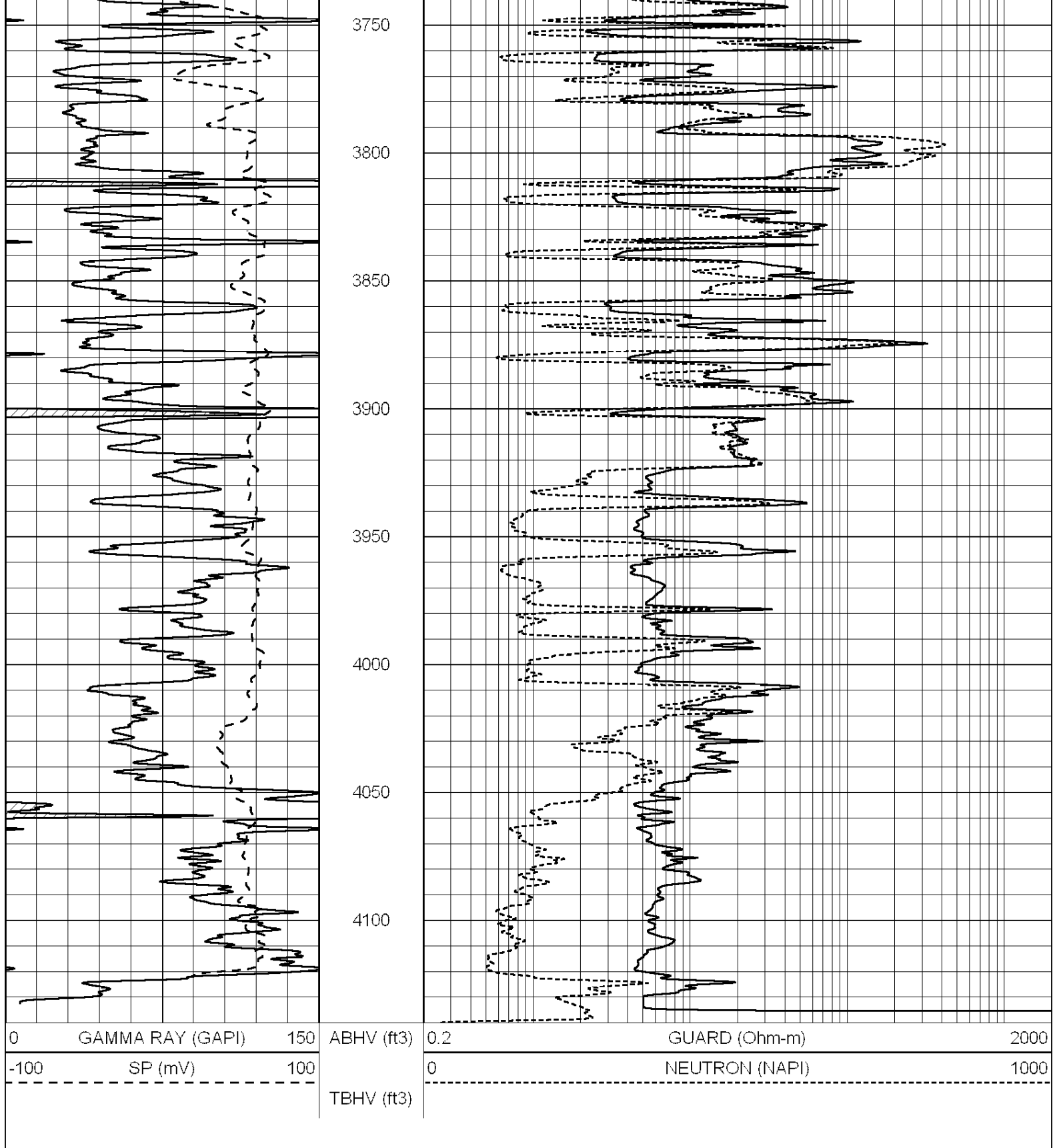
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3700





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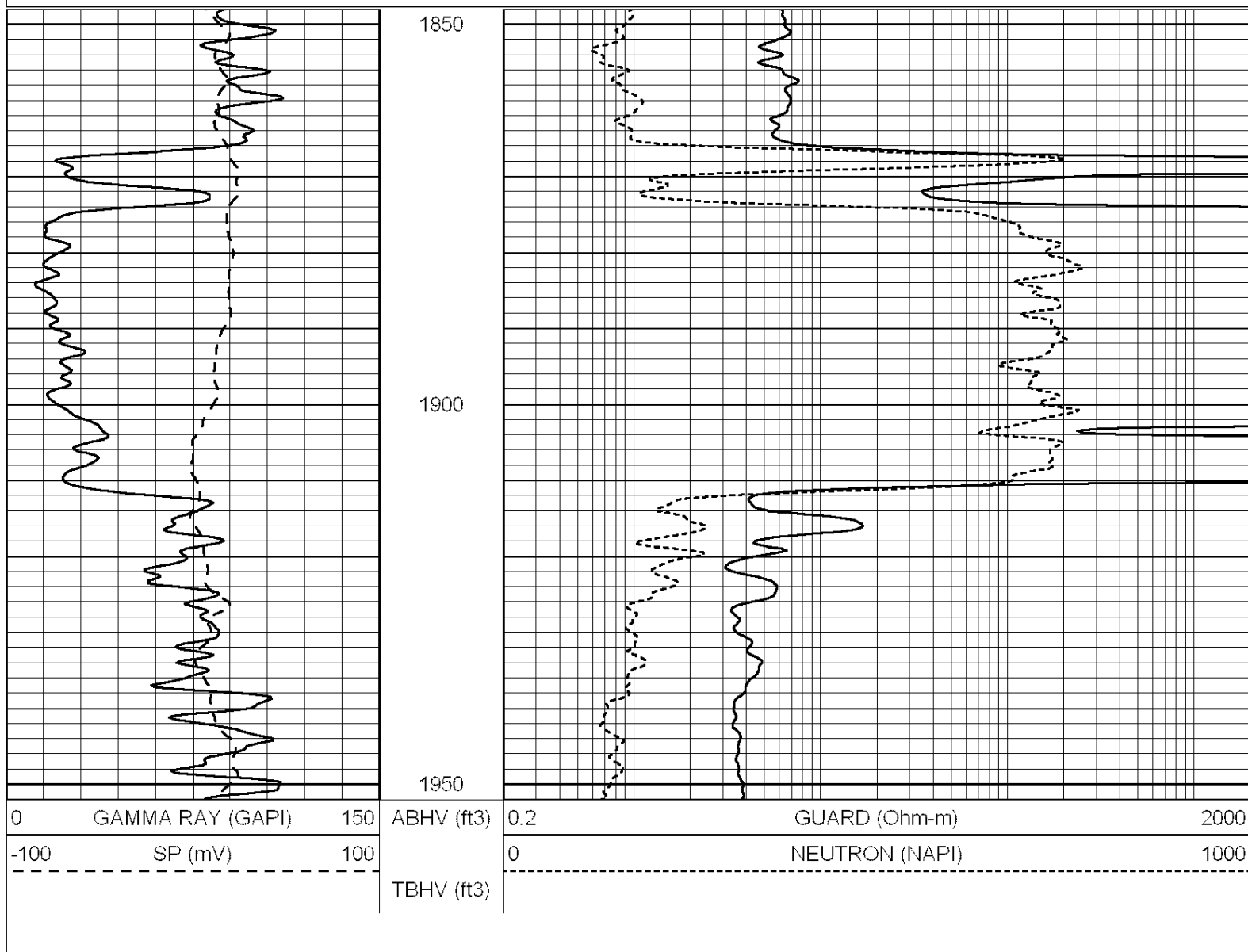
ANHYDRITE

Database File: 009732rag.db
Dataset Pathname: pass3.3
Presentation Format: rag2
Dataset Creation: Wed Sep 19 08:16:58 2012 by Calc Open-Cased 090629

Charted by:

Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV (ft3)	0.2	GUARD (Ohm-m)	2000
-100	SP (mV)	100		0	NEUTRON (NAPI)	1000
			TBHV (ft3)			





SUPERIOR
WELL SERVICES

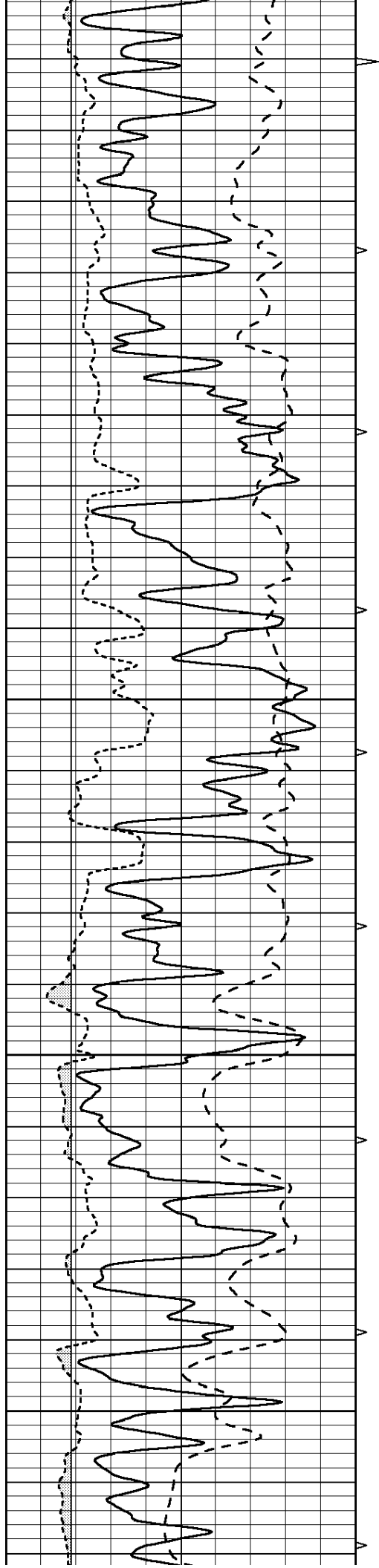
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MAIN SECTION

Database File: 009732rag.db
 Dataset Pathname: pass3.1
 Presentation Format: rag
 Dataset Creation: Wed Sep 19 08:02:18 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0.2	GUARD (Ohm-m)	2000
-100	SP (mV)	100	10 (ft3)	0	NEUTRON (NAPI)	1000
6	CALIPER (in)	16	TBHV			
			0 (ft3) 10			



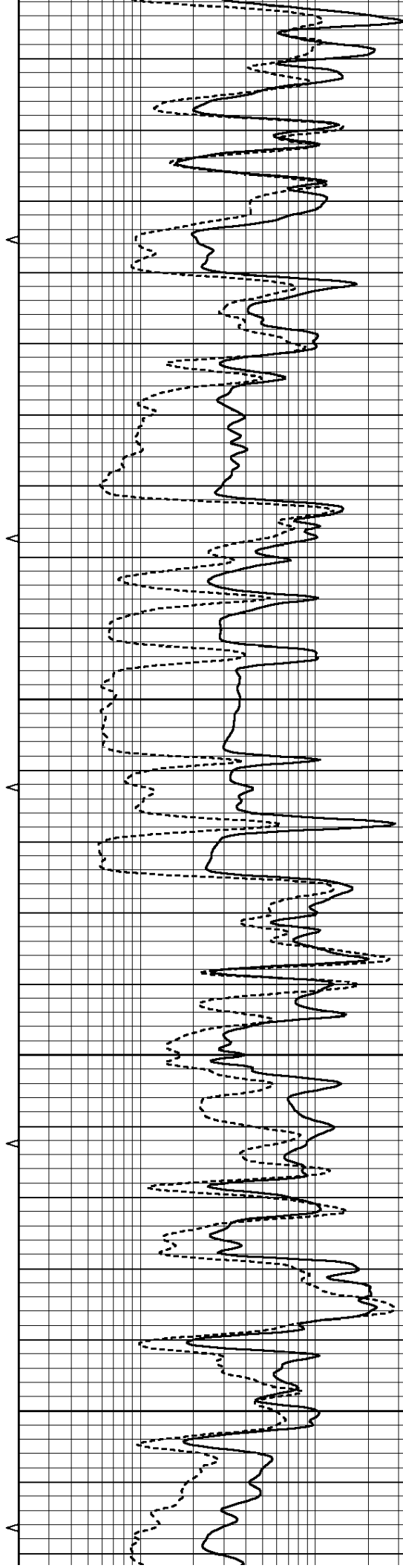


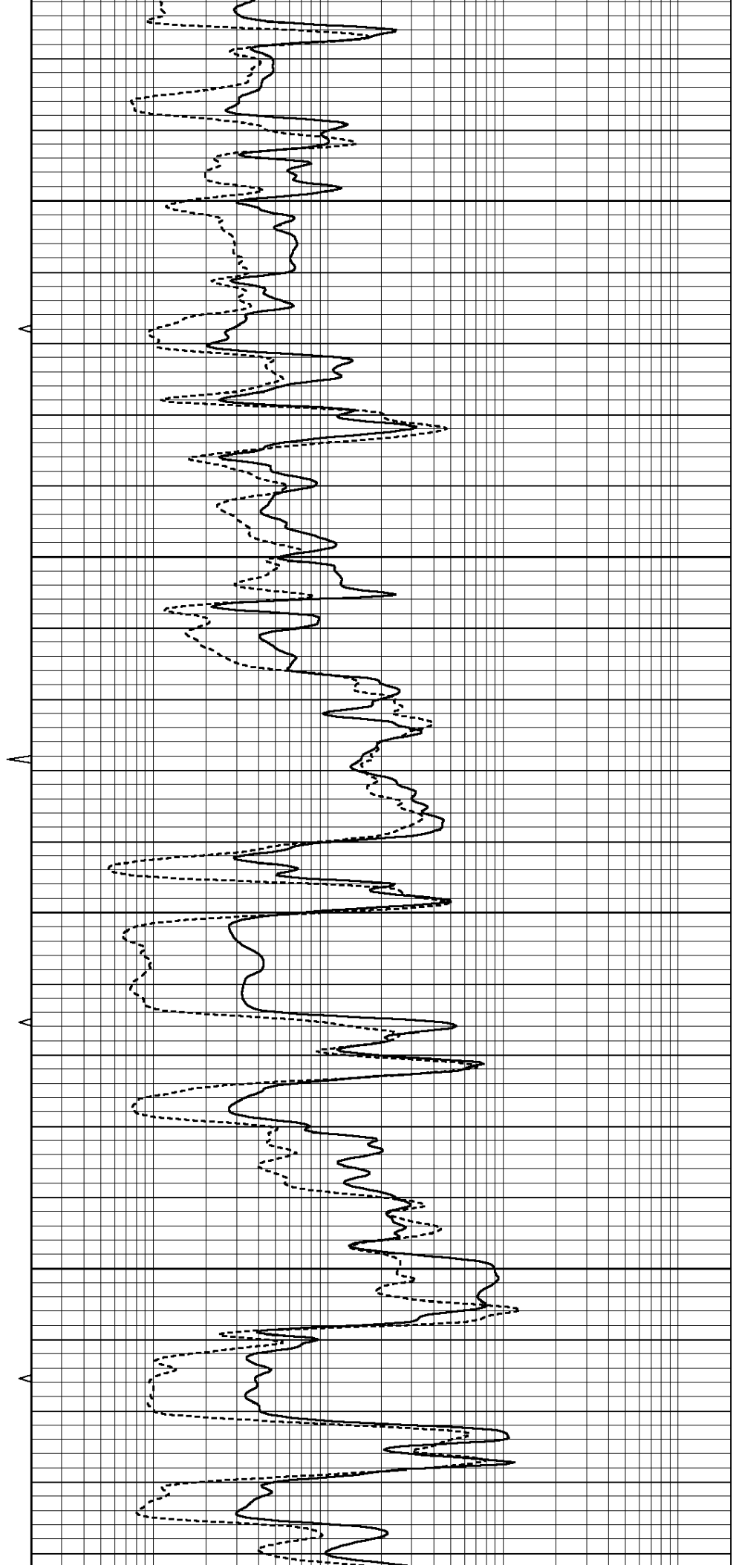
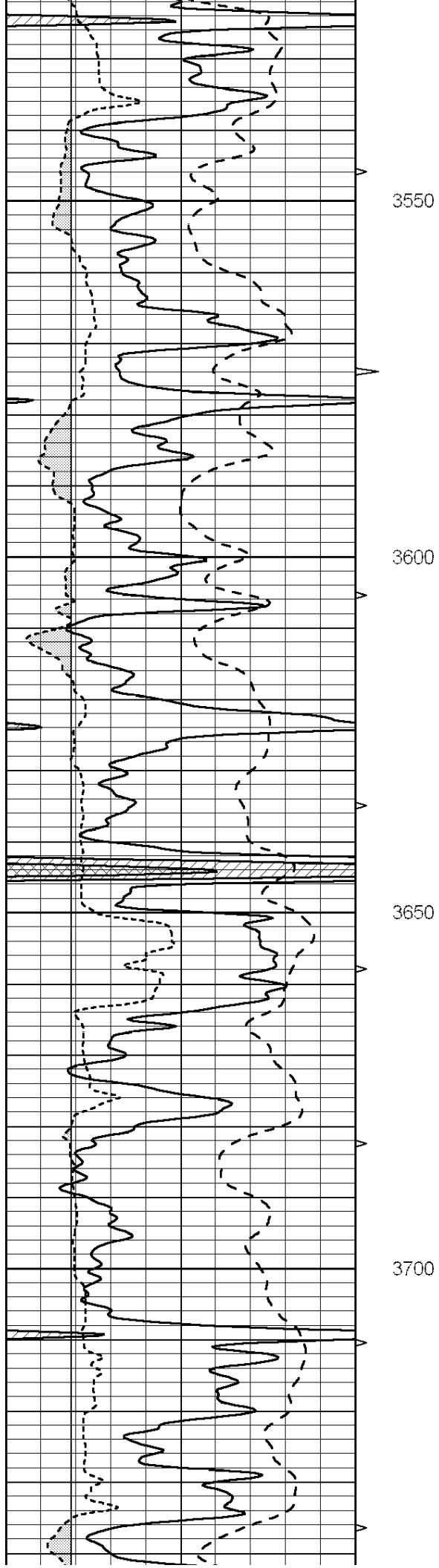
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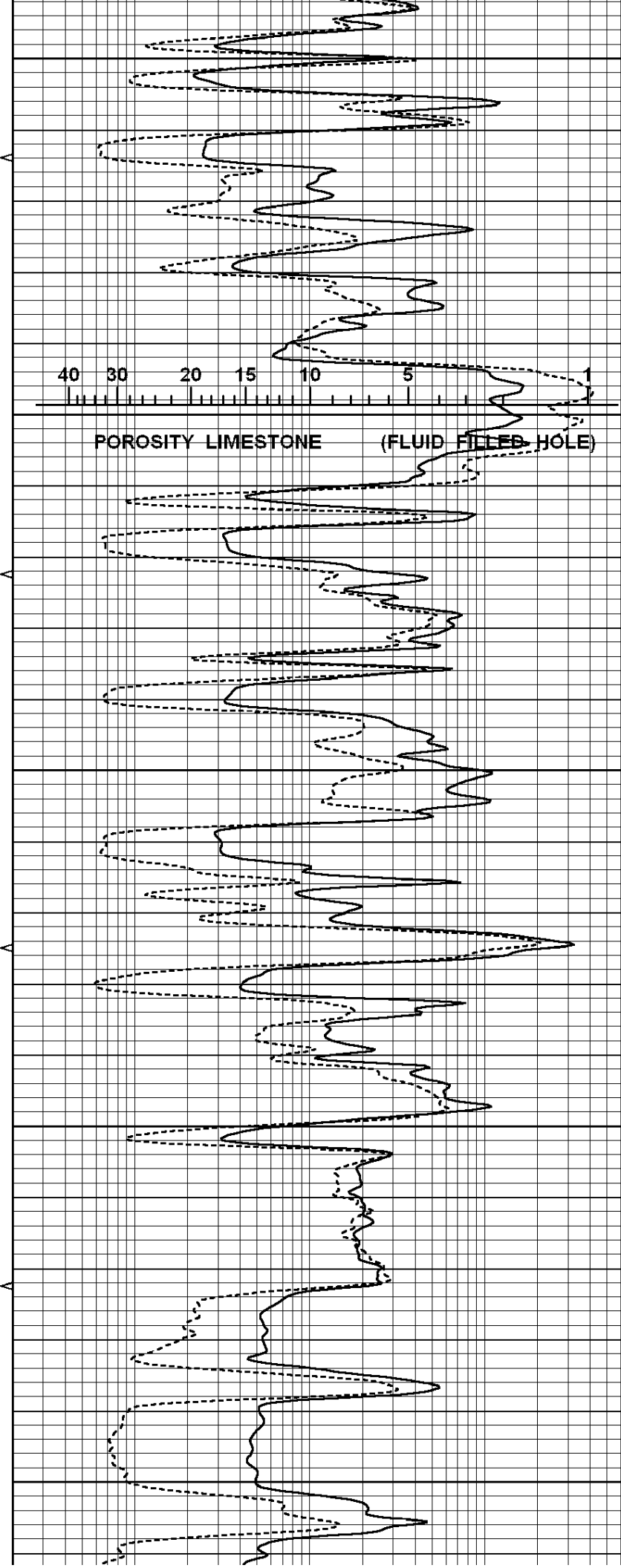
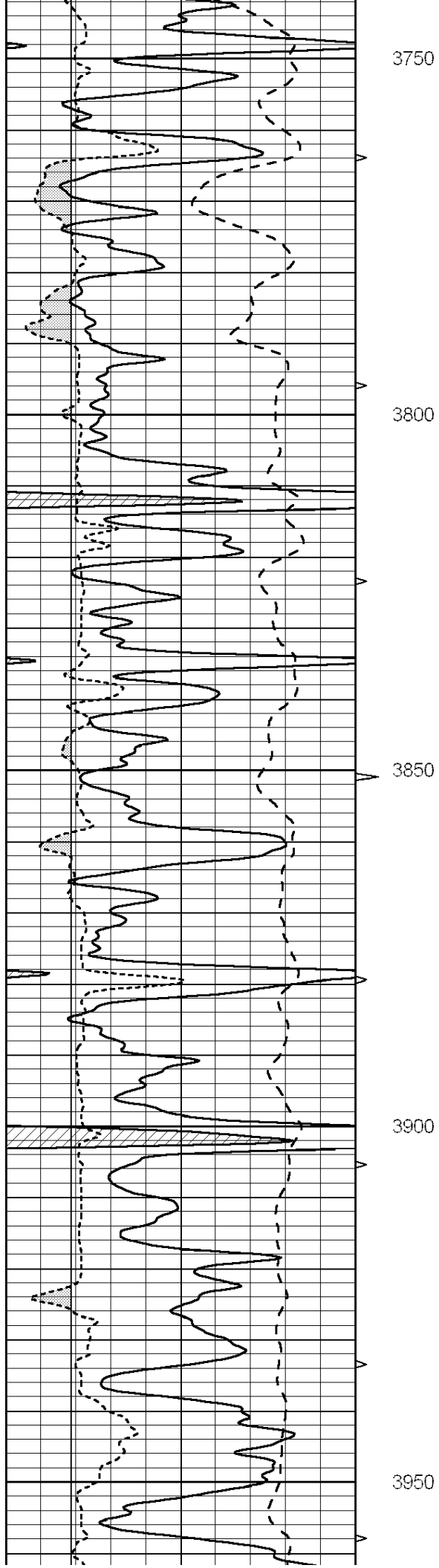
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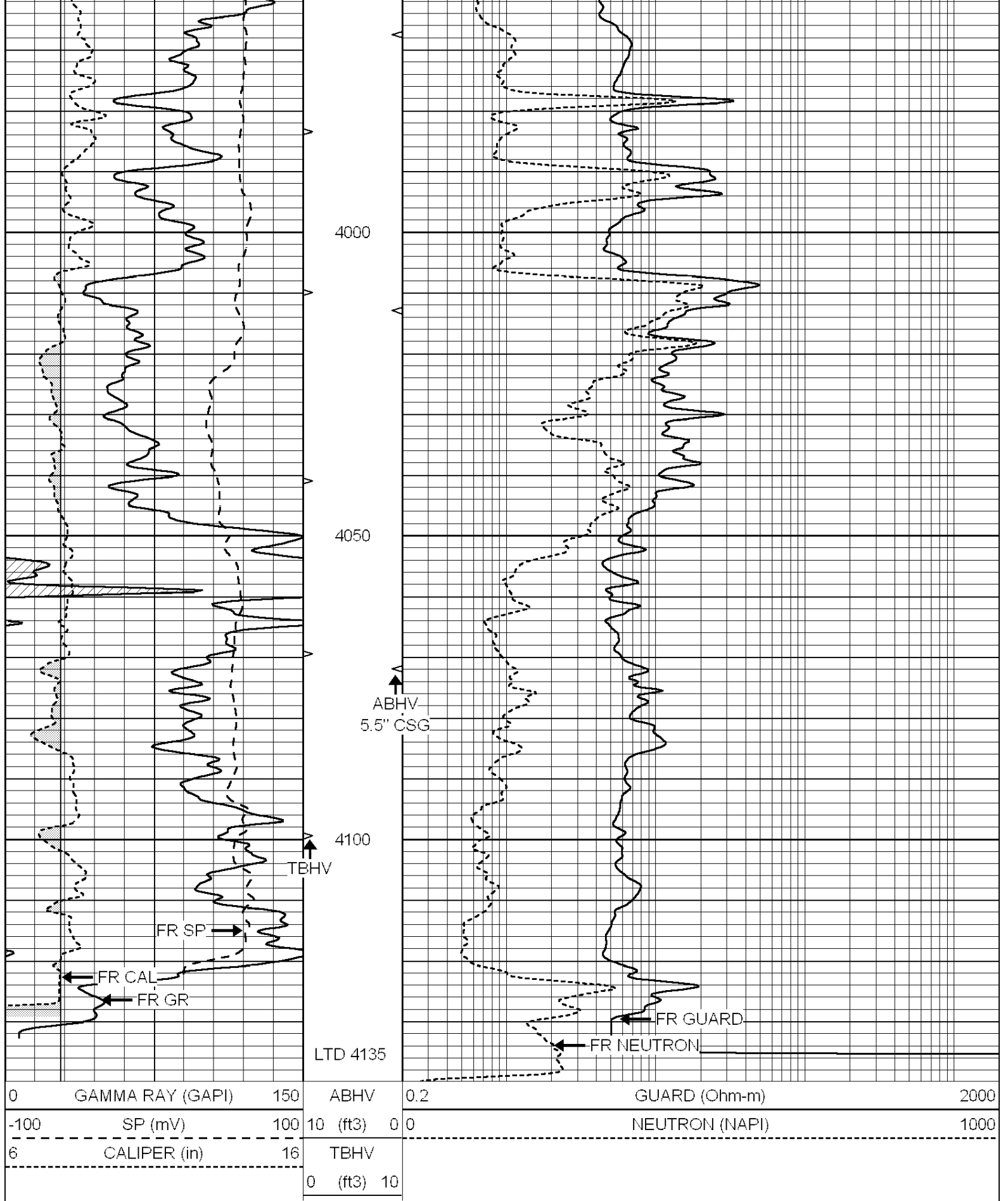
3450

3500









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REPEAT SECTION

Database File: 009732rag.db
Dataset Pathname: pass2.1
Presentation Format: rag
Dataset Creation: Wed Sep 19 07:56:21 2012 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0.2	GUARD (Ohm-m)	2000
-100	SP (mV)	100	10 (ft3)	0 0	NEUTRON (NAPI)	1000
6	CALIPER (in)	16	TBHV			
			0 (ft3)	10		

