



**SUPERIOR
Hays,
Kansas**

**RADIATION
GUARD LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	#1 O'BRIEN B/P TWIN		
Field			
County	NESS	State	KANSAS
Location:	API # : 15-135-25320 2220' FSL & 420' FWL		Other Services BOTTOM GAMMA
SEC 7 TWP 20S RGE 21W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2209
Log Measured From	KELLY BUSHING 7' A.G.L.	K.B. 2216 D.F. G.L. 2209	
Drilling Measured From	KELLY BUSHING		
Date	12-7-11		
Run Number	ONE		
Depth Driller	4338		
Depth Logger	4339		
Bottom Logged Interval	4338		
Top Log Interval	00		
Casing Driller	220		
Casing Logger	220		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2 / 55		
pH / Fluid Loss	10.0 / 6.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.75 @ 74F		
Rmf @ Meas. Temp	0.56 @ 74F		
Rmc @ Meas. Temp	0.90 @ 74F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.470 @ 118F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	2:30 A.M.		
Maximum Recorded Temperature	118F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	ADAM ELDANI		

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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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: BAZINE, 8 1/2S, E INTO.

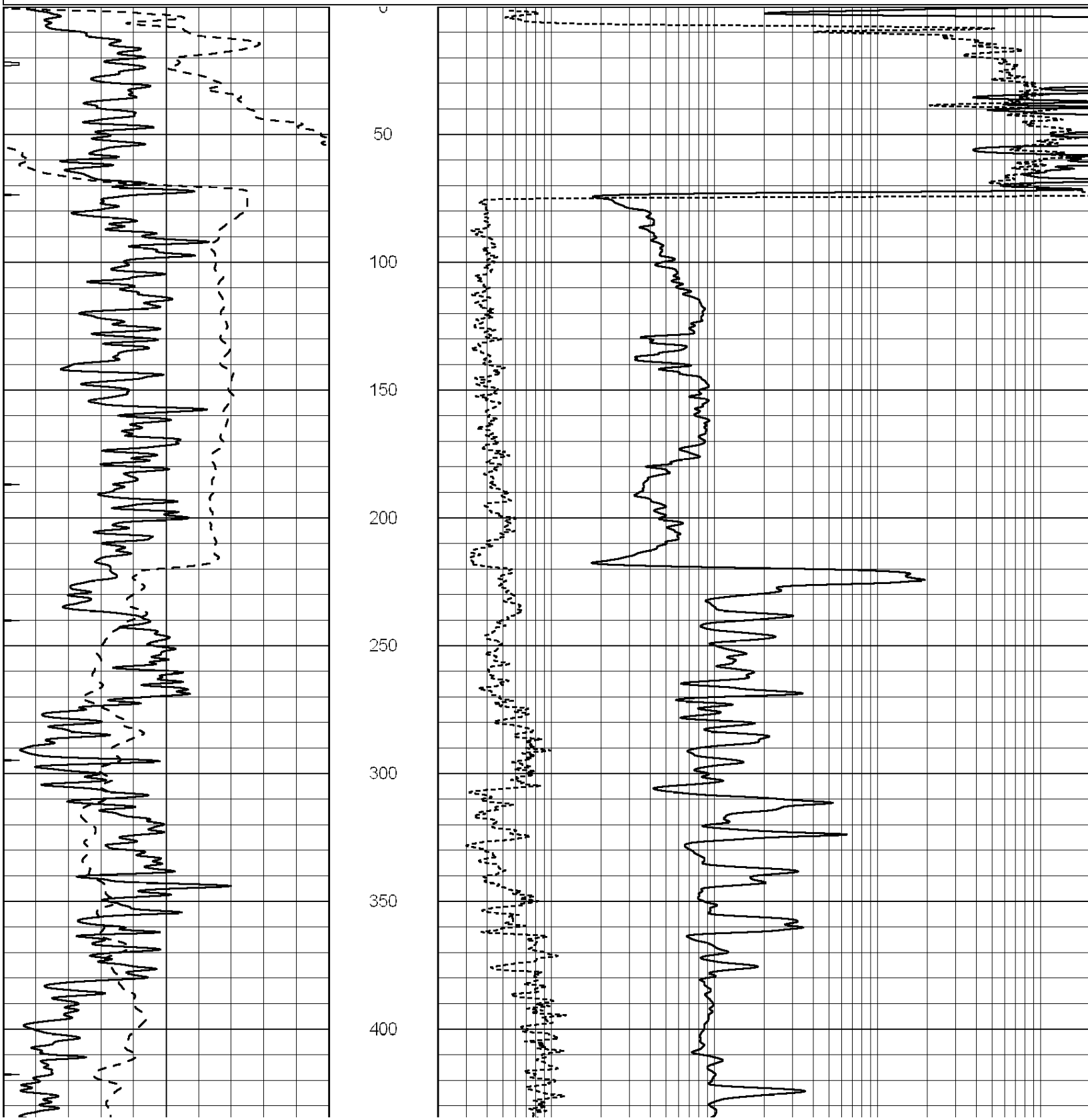


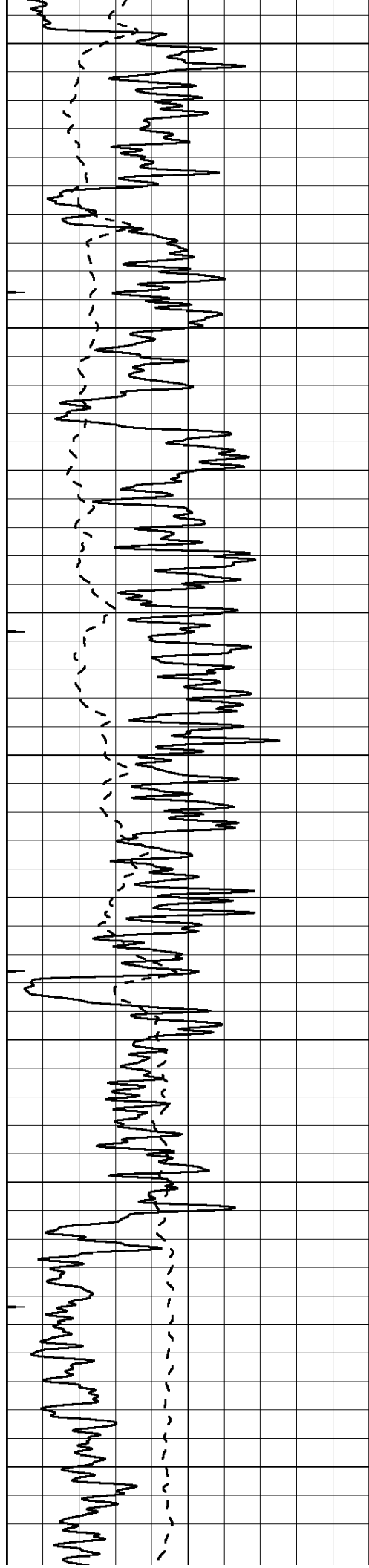
**SUPERIOR
Hays,
Kansas**

MAIN SECTION

Database File: 001211rag.db
Dataset Pathname: pass4.2
Presentation Format: rag2
Dataset Creation: Wed Dec 07 04:21:27 2011
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

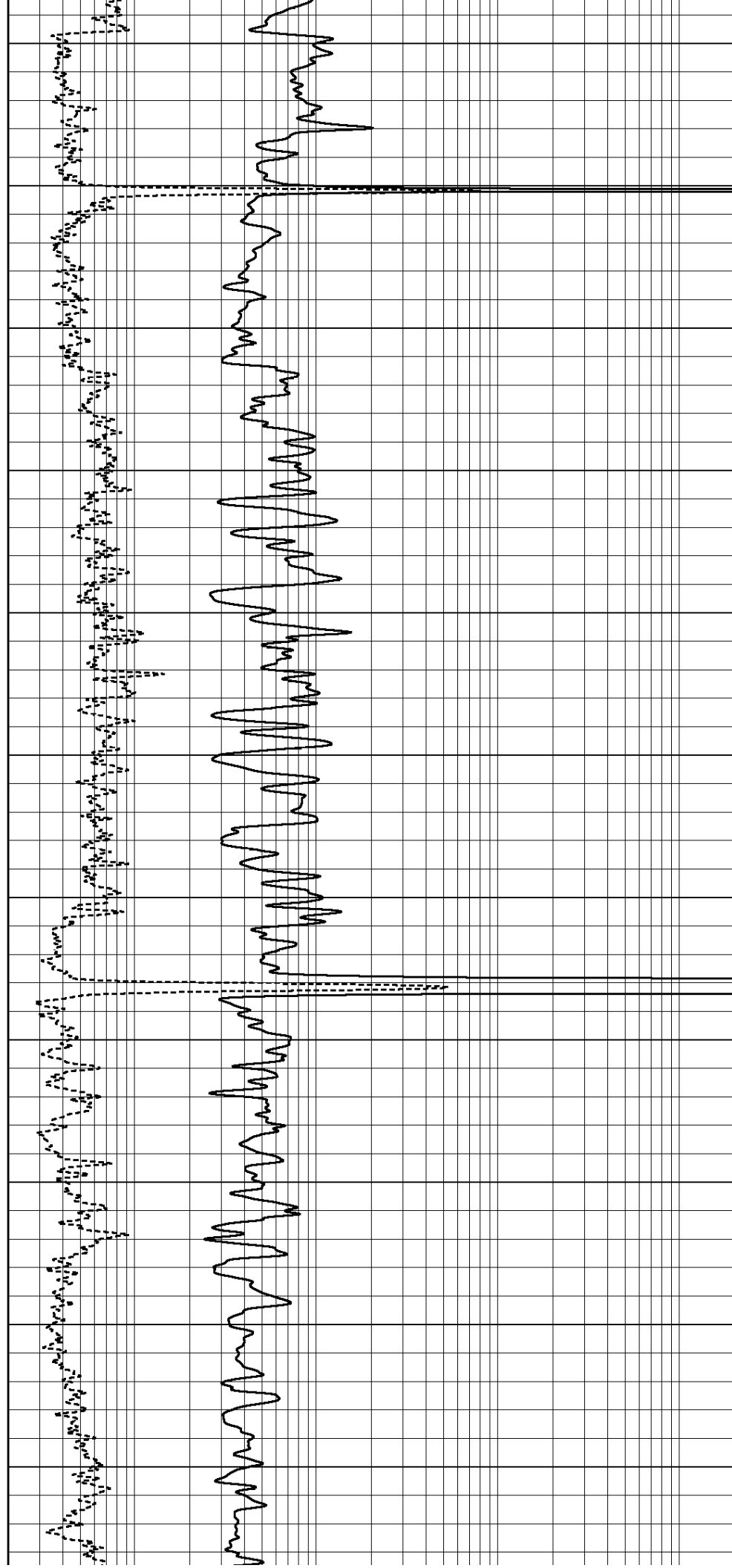
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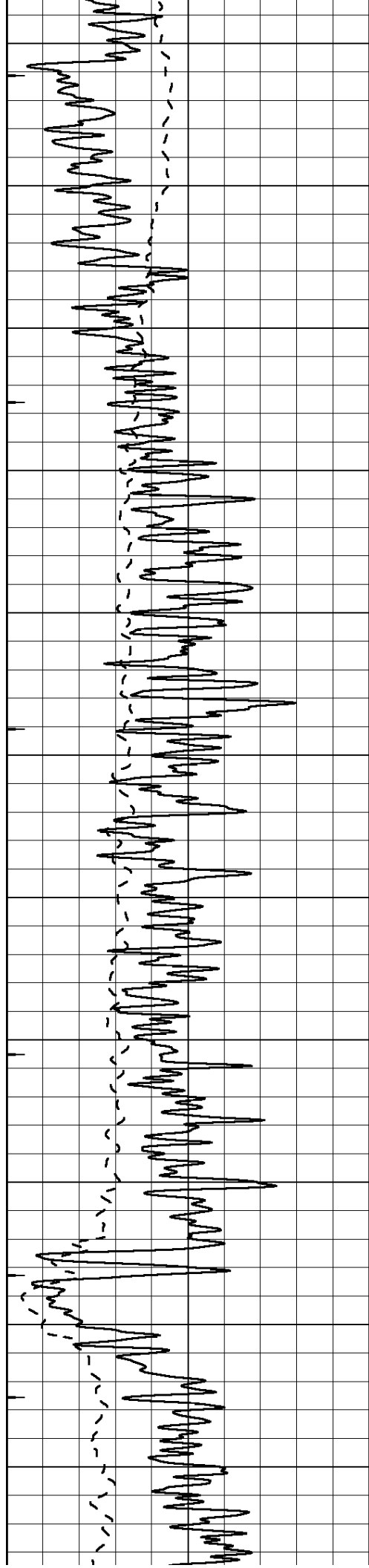
800

850

900

950





1000

1050

1100

1150

1200

1250

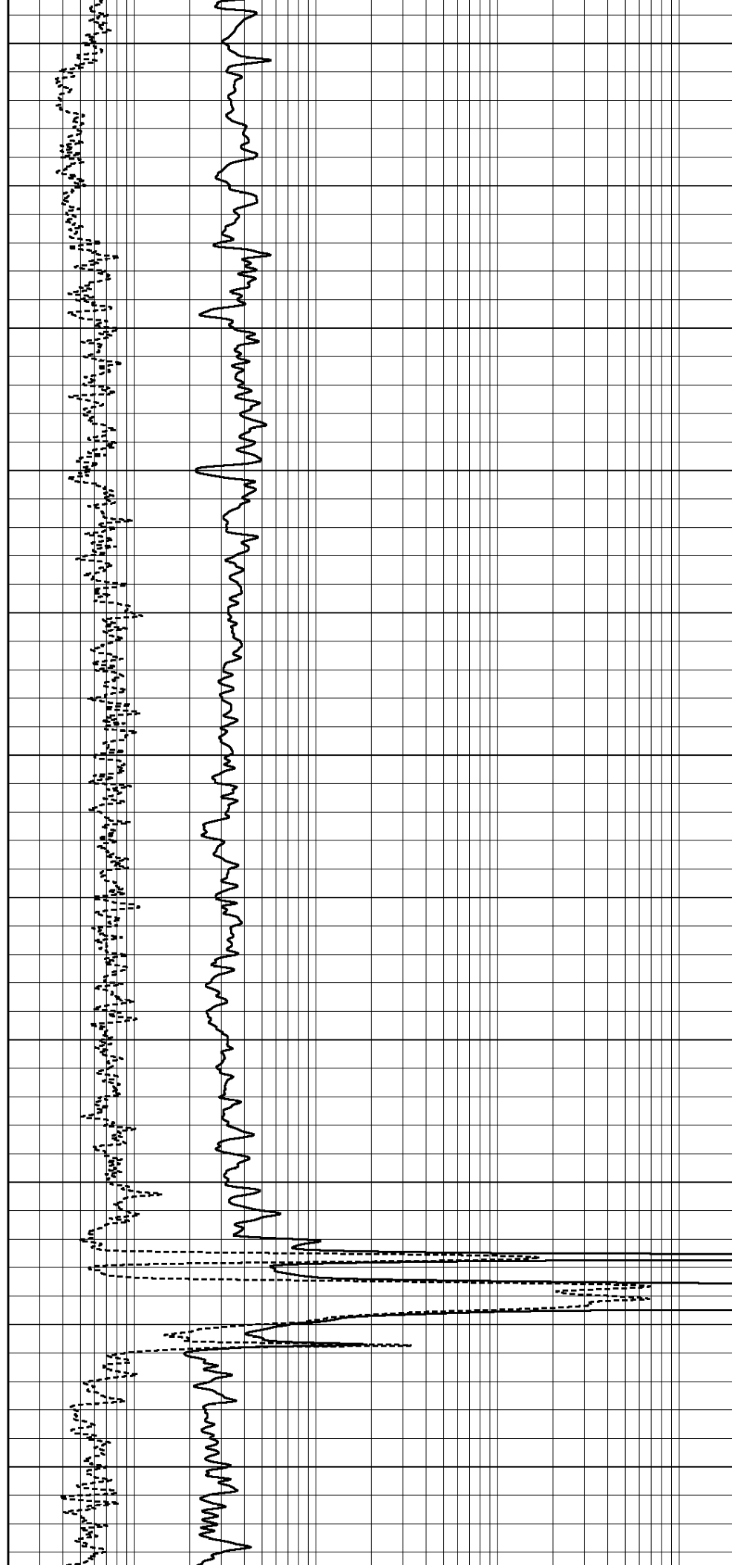
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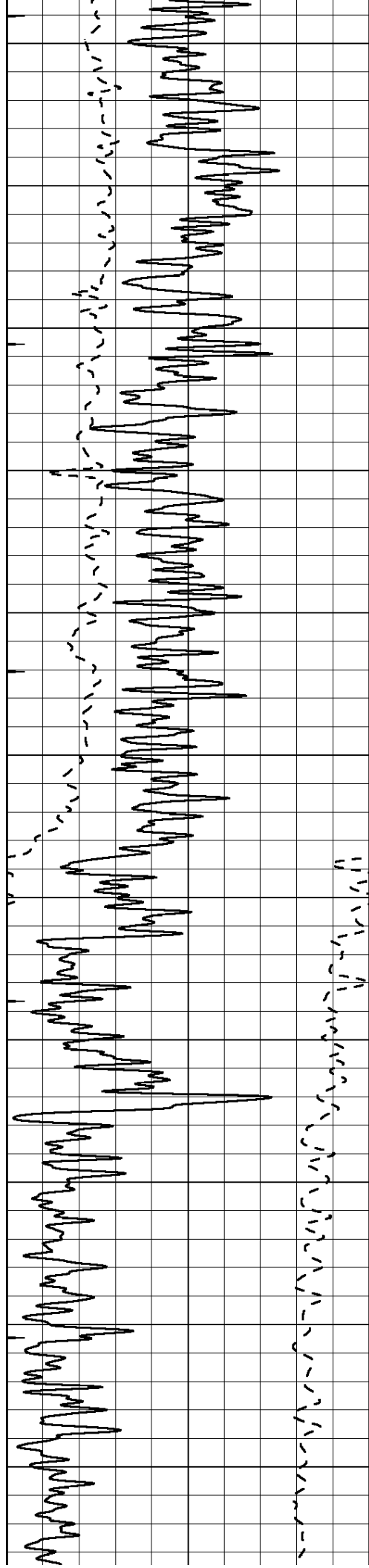
1350

1400

1450

1500





1550

1600

1650

1700

1750

1800

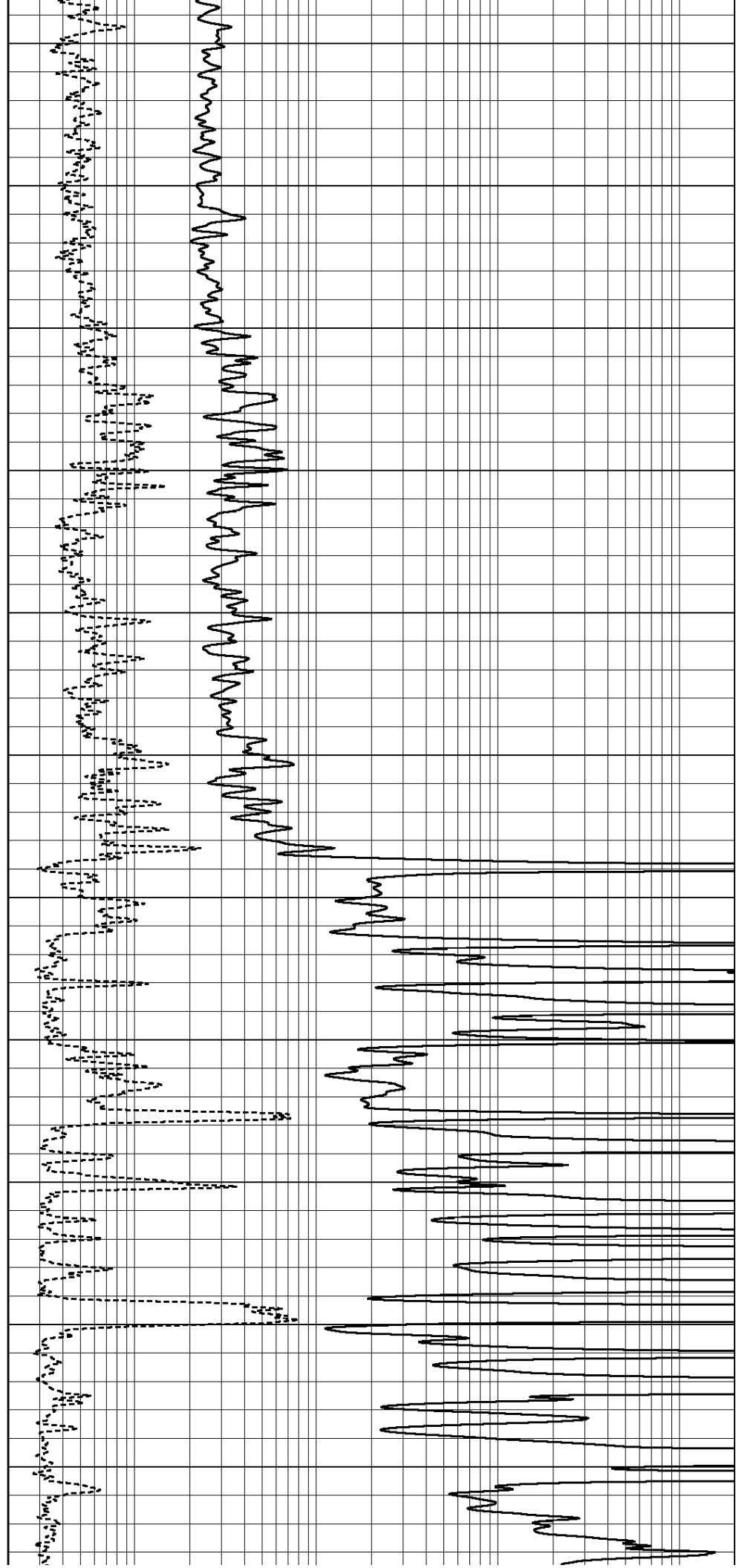
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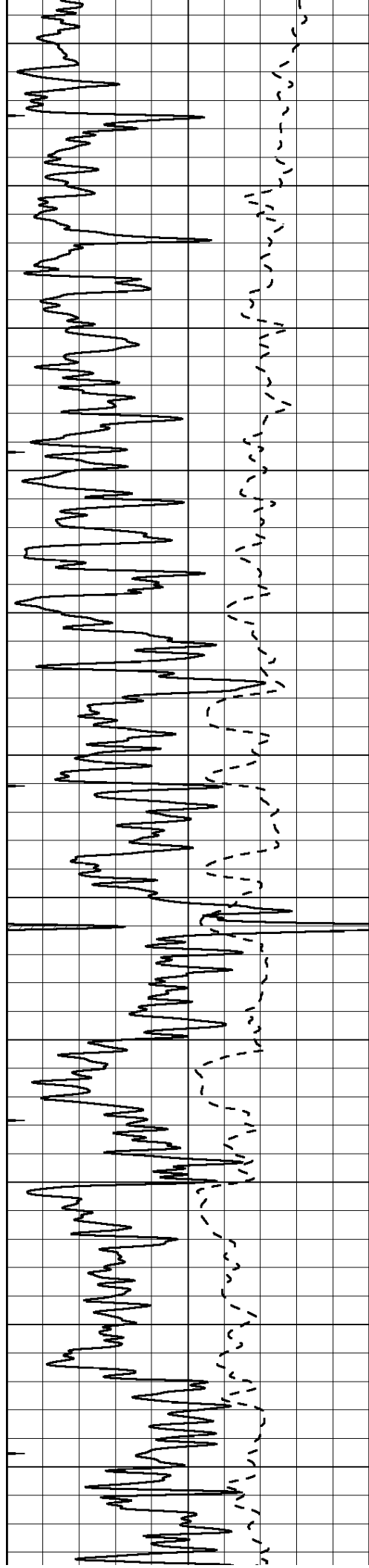
1900

1950

2000

2050





2100

2150

2200

2250

2300

2350

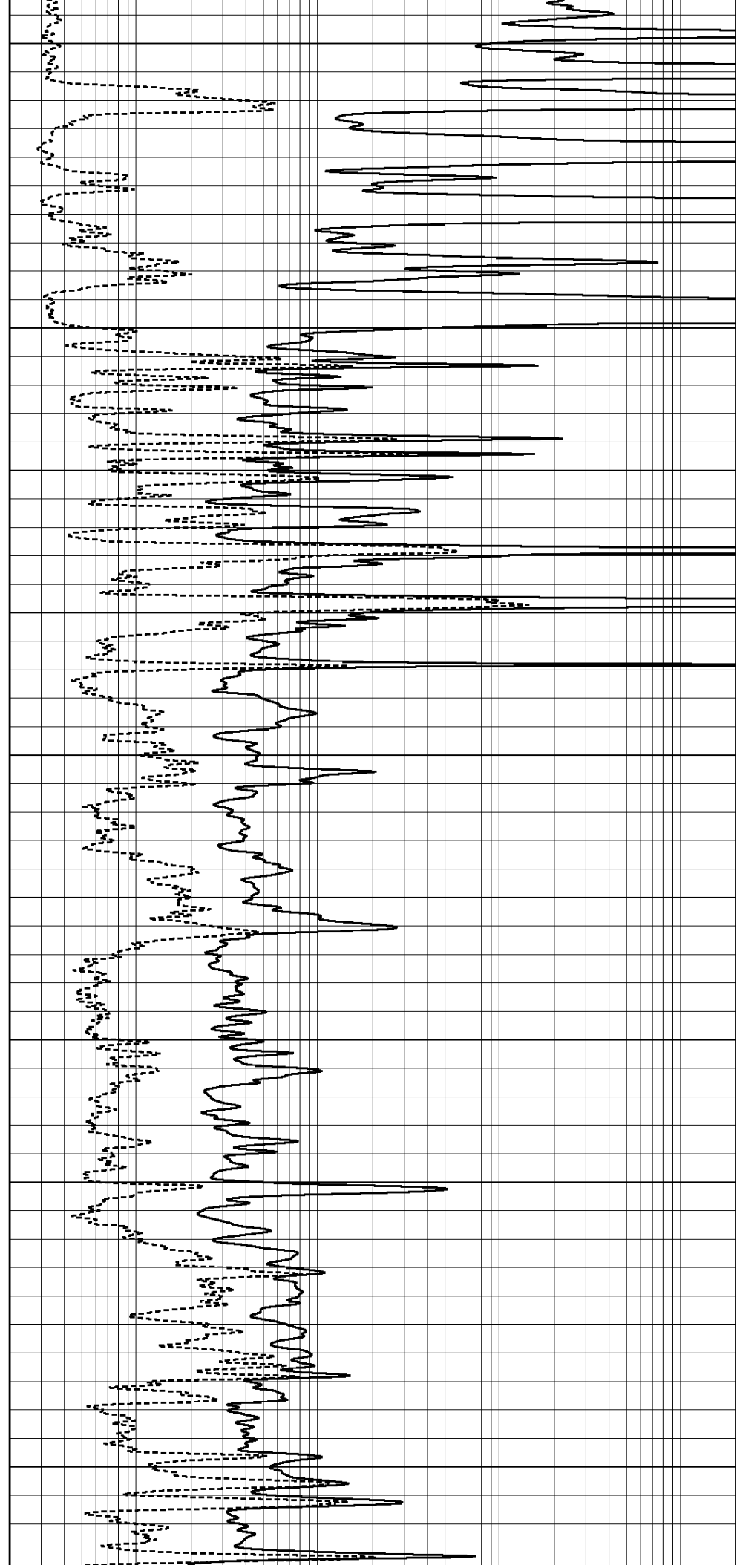
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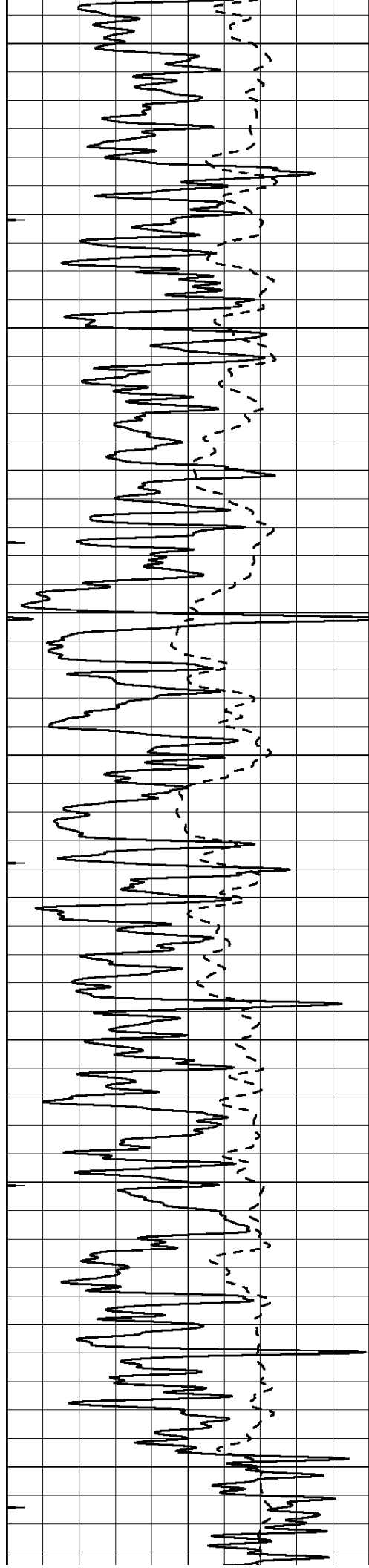
2450

2500

2550

2600





2650

2700

2750

2800

2850

2900

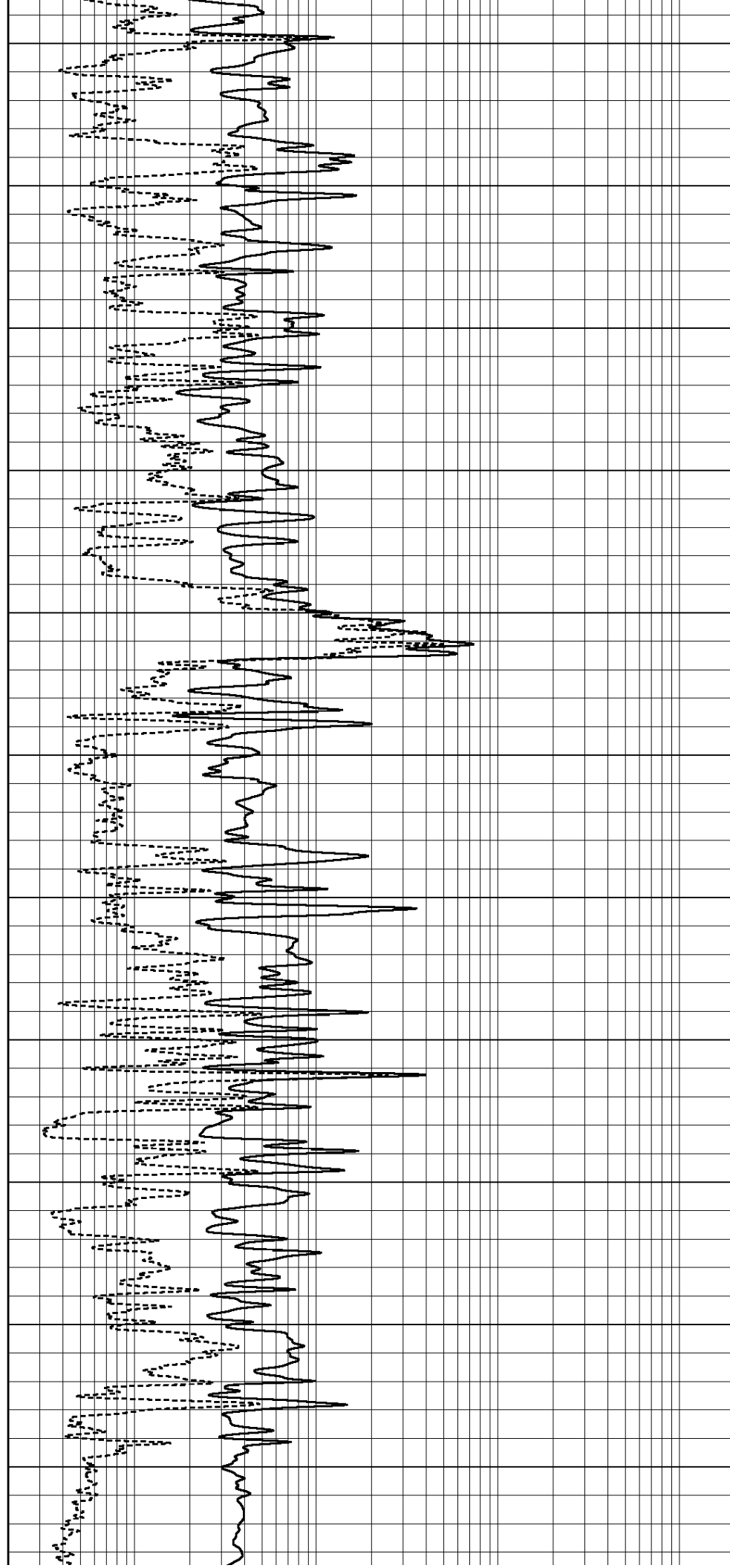
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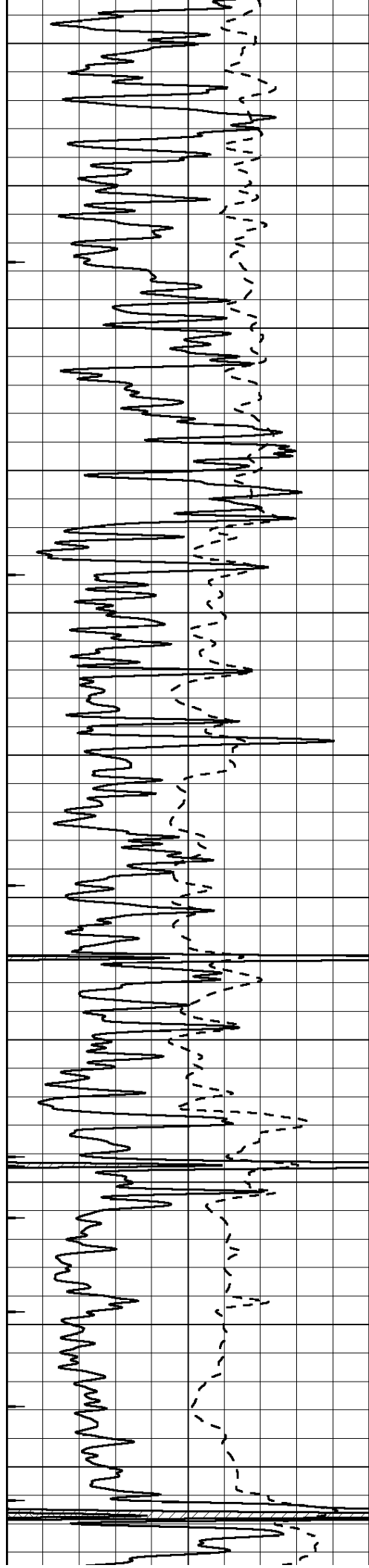
3000

3050

3100

3150





3200

3250

3300

3350

3400

3450

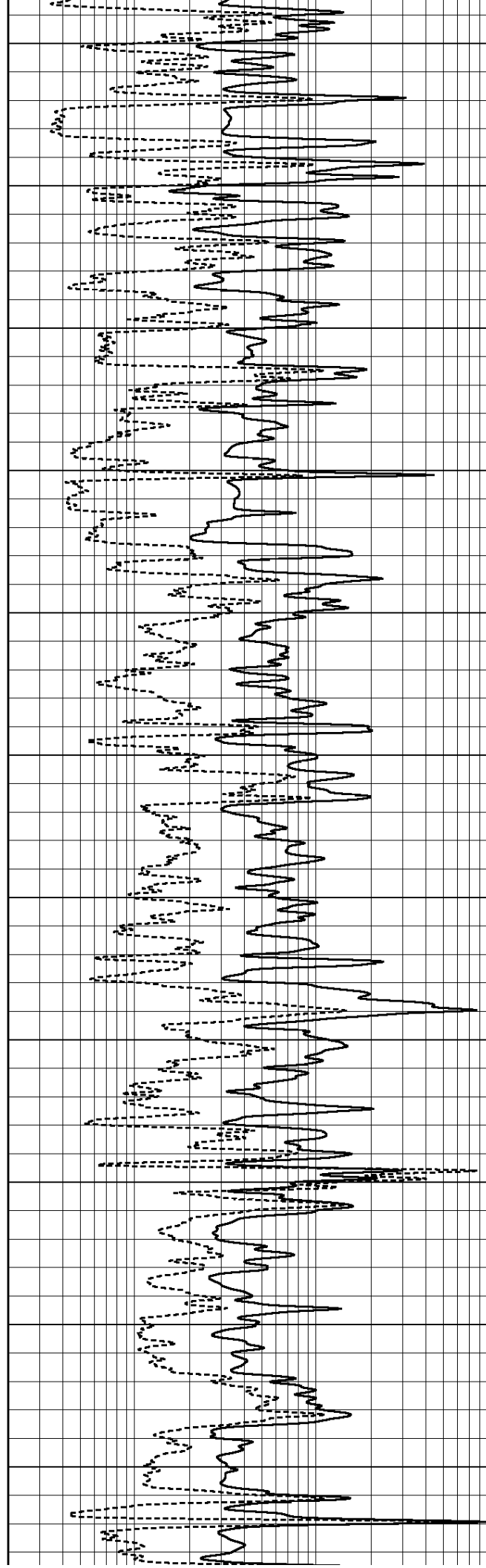
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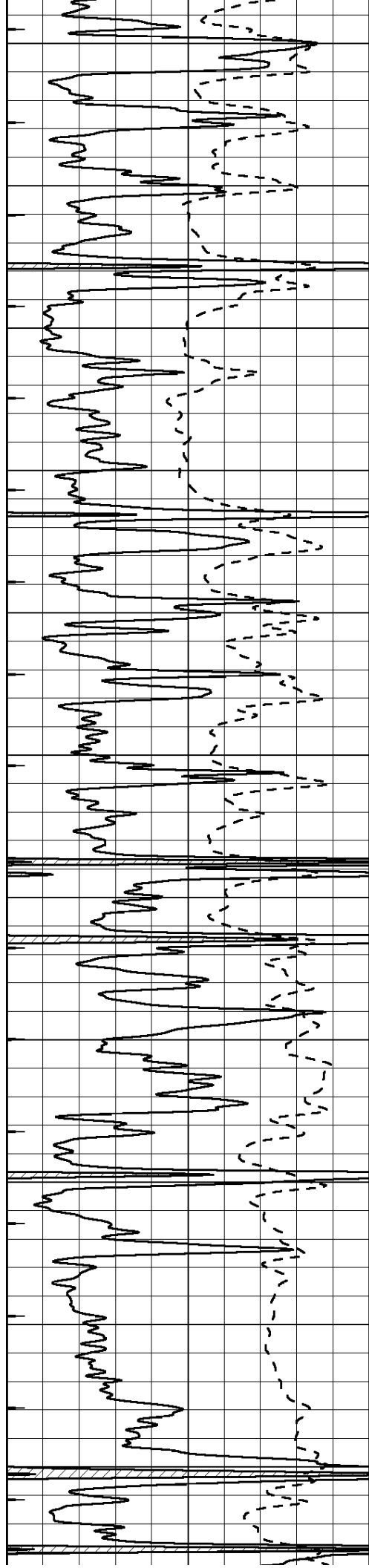
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3600

3650

3700





3750

3800

3850

3900

3950

4000

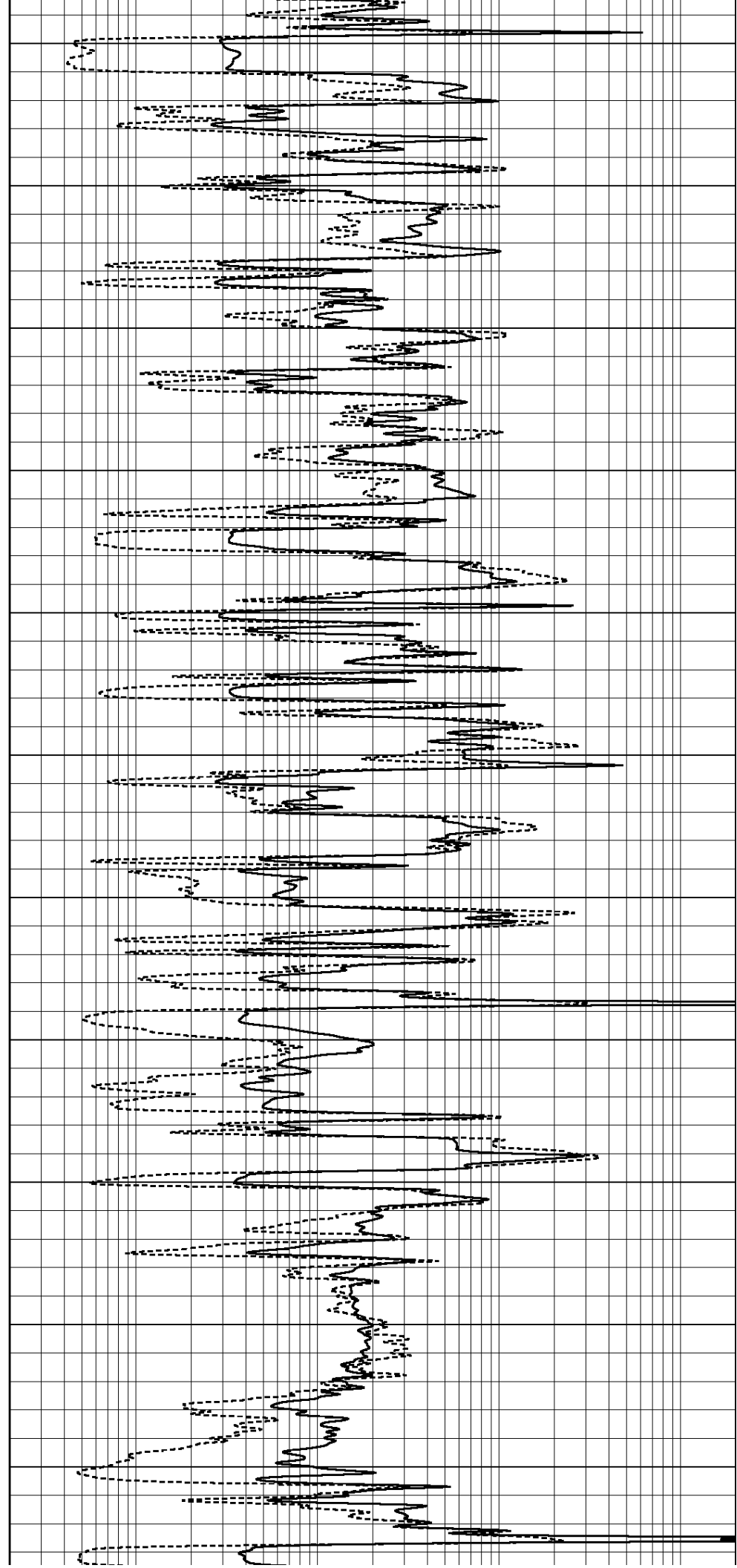
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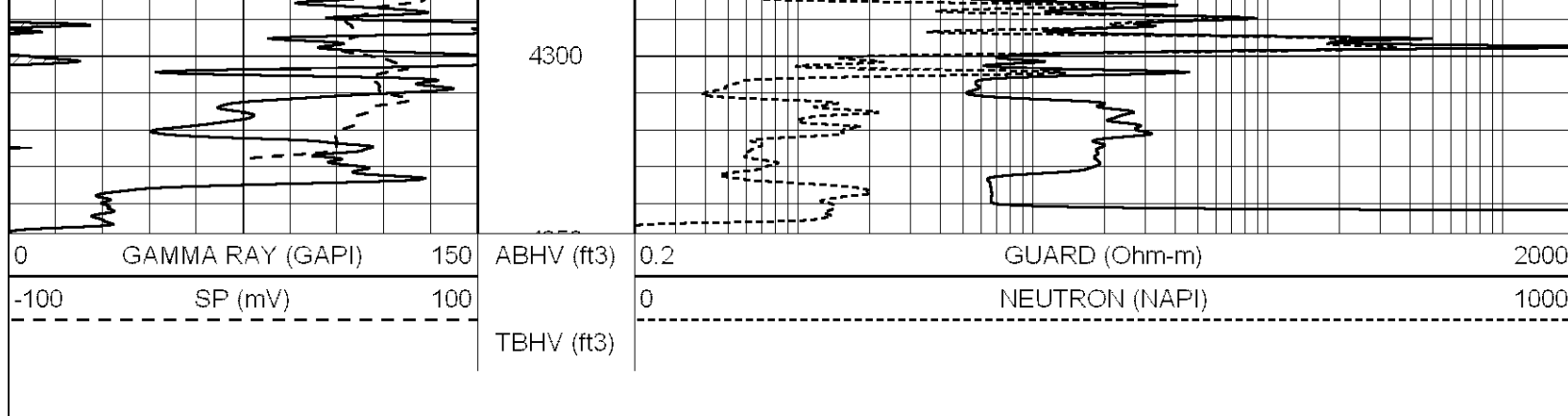
4100

4150

4200

4250



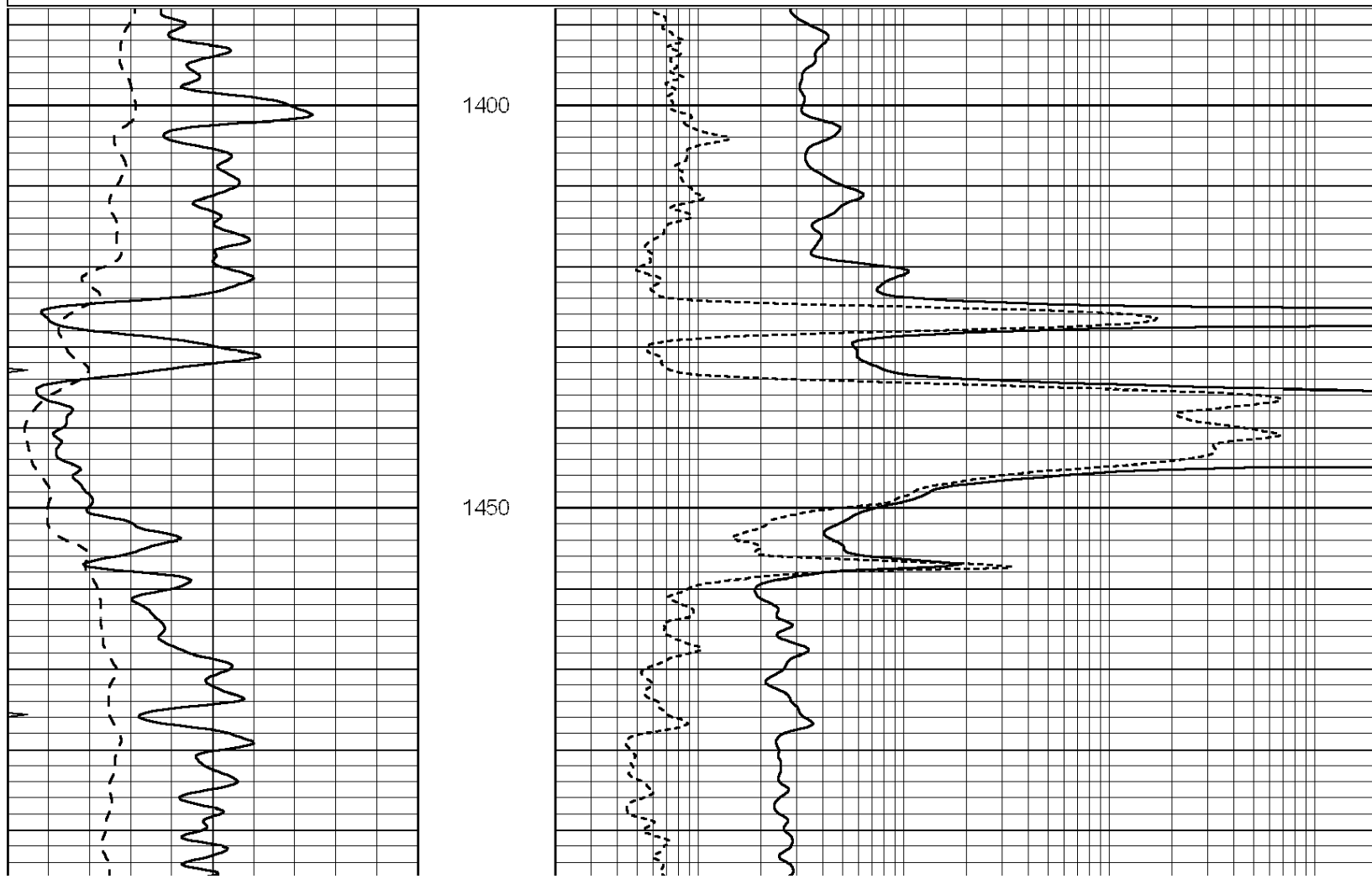
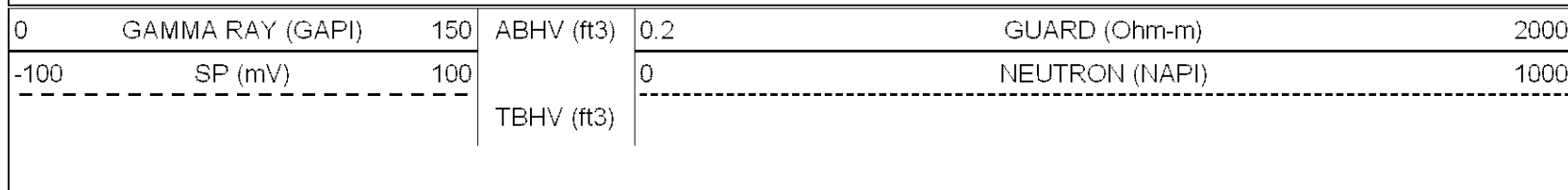


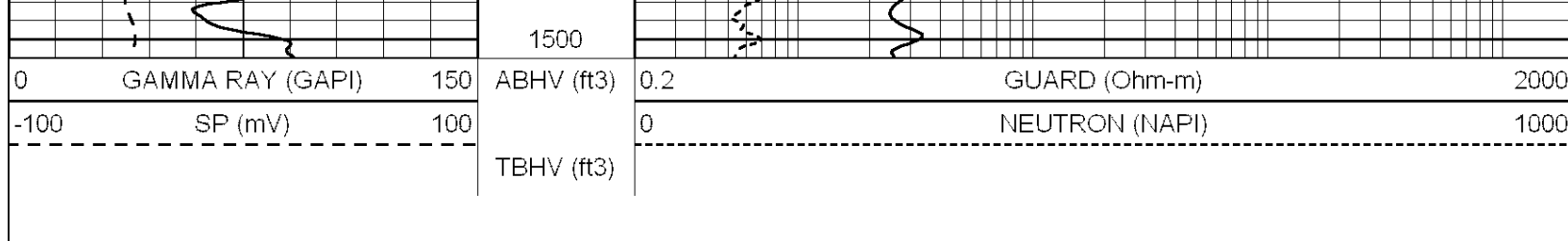


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MAIN SECTION

Database File: 001211rag.db
 Dataset Pathname: pass4.2
 Presentation Format: rag2
 Dataset Creation: Wed Dec 07 04:21:27 2011
 Charted by: Depth in Feet scaled 1:240







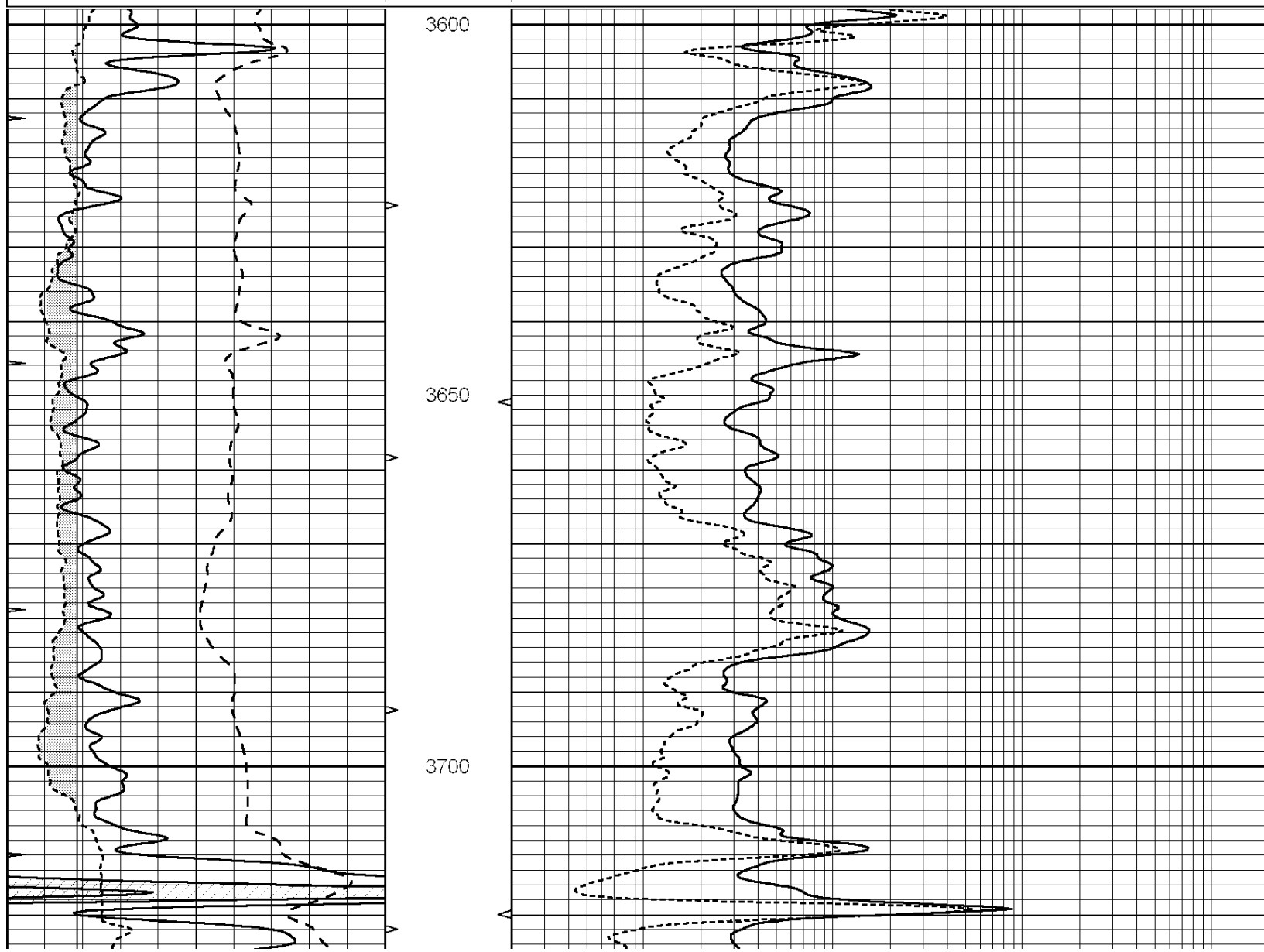
SUPERIOR

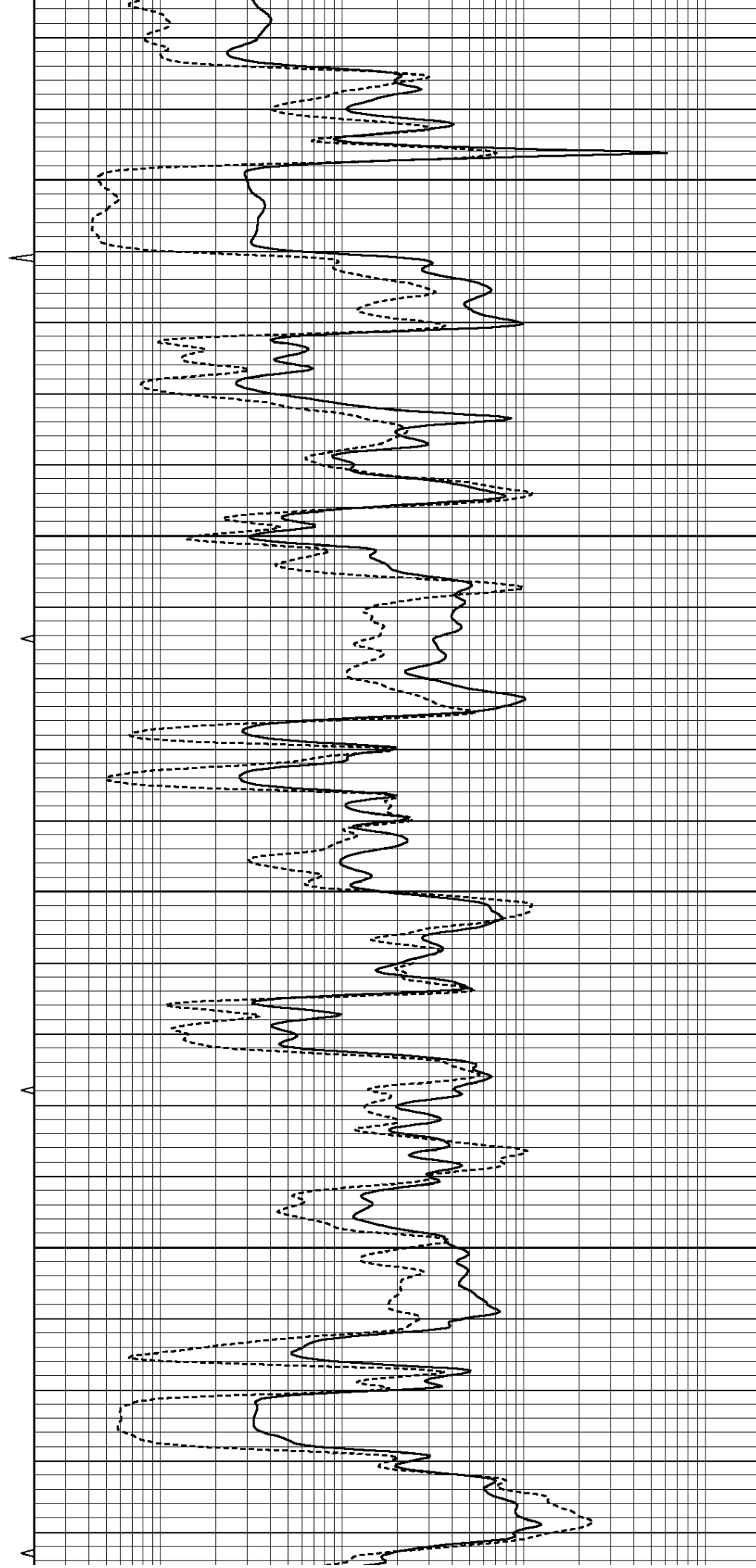
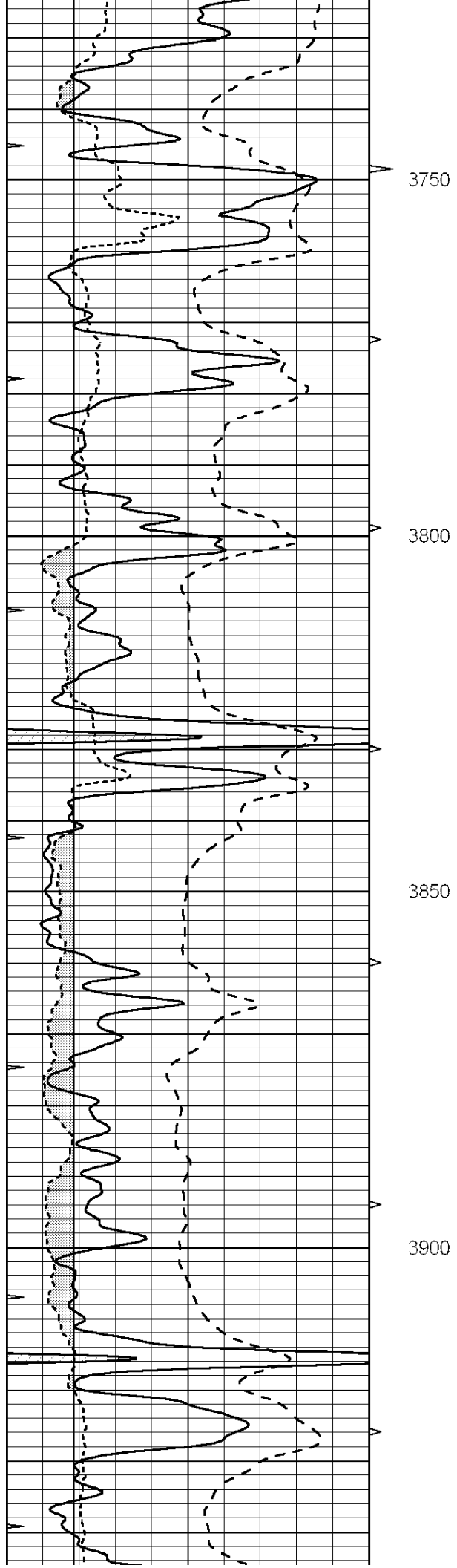
Hays, Kansas

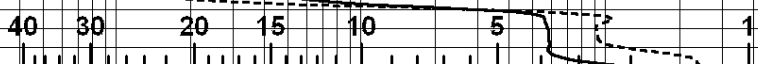
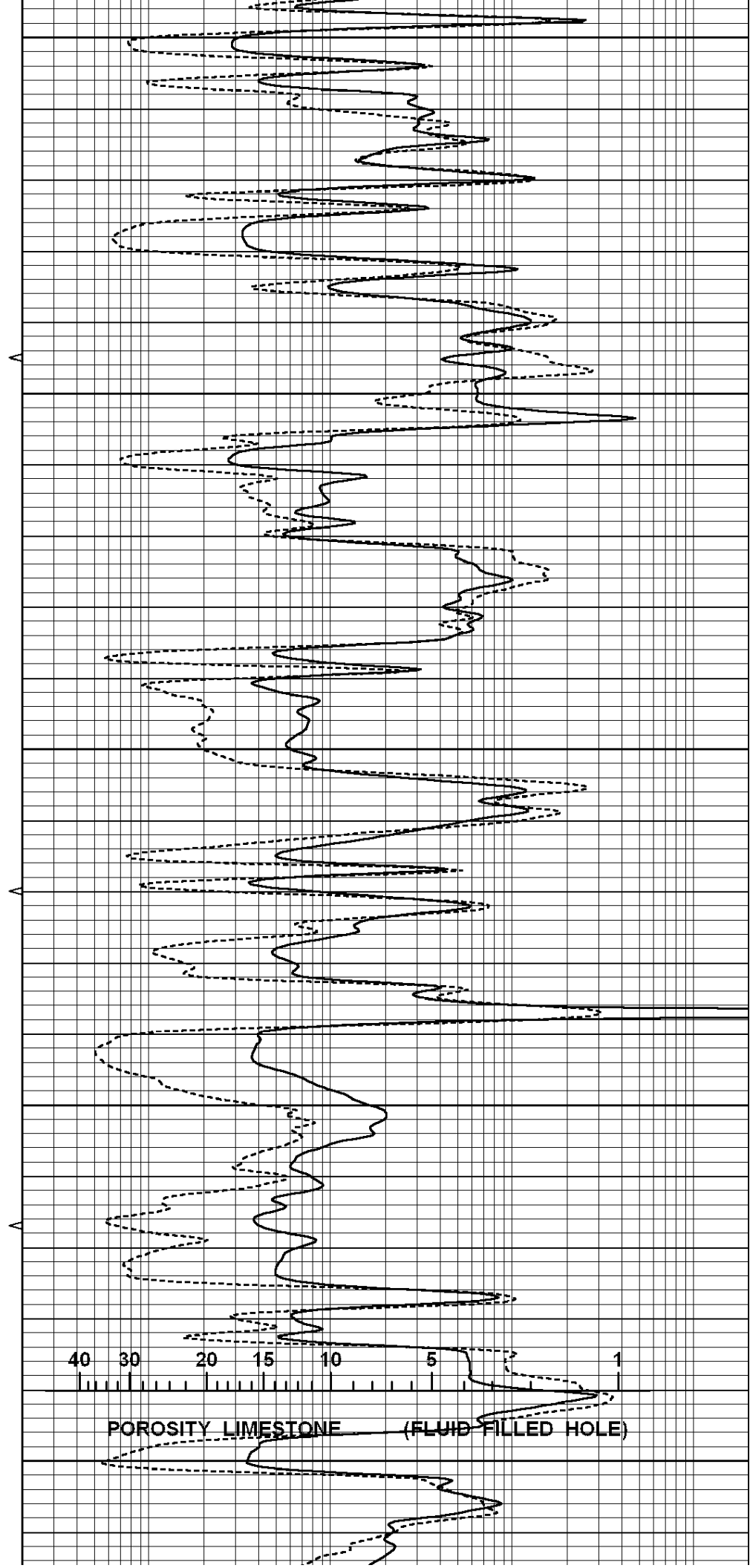
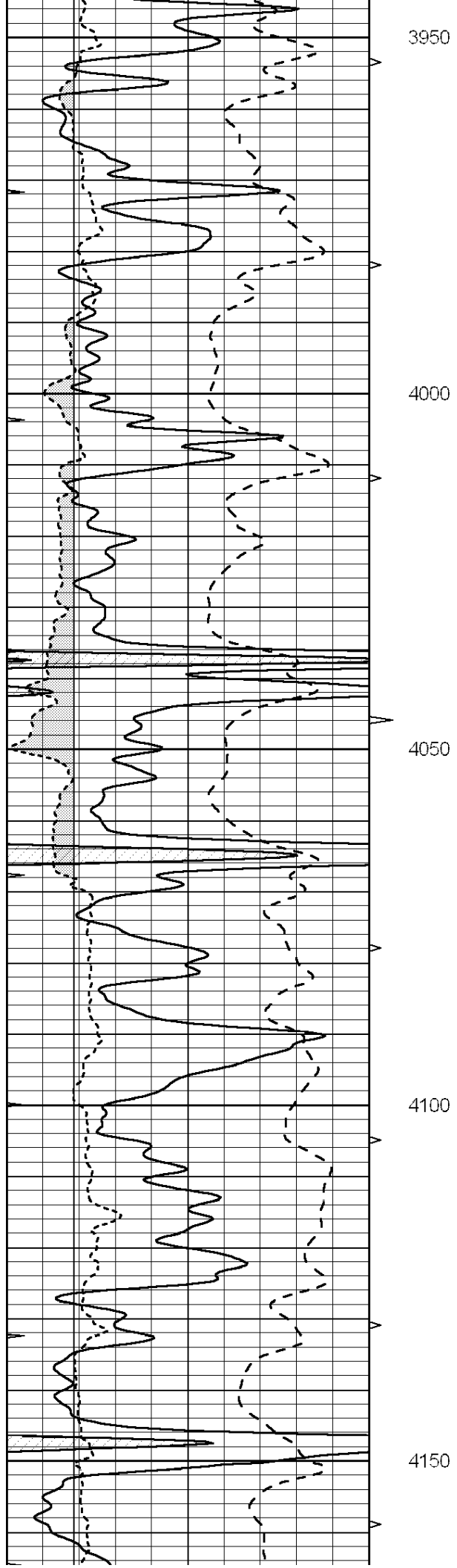
MAIN SECTION

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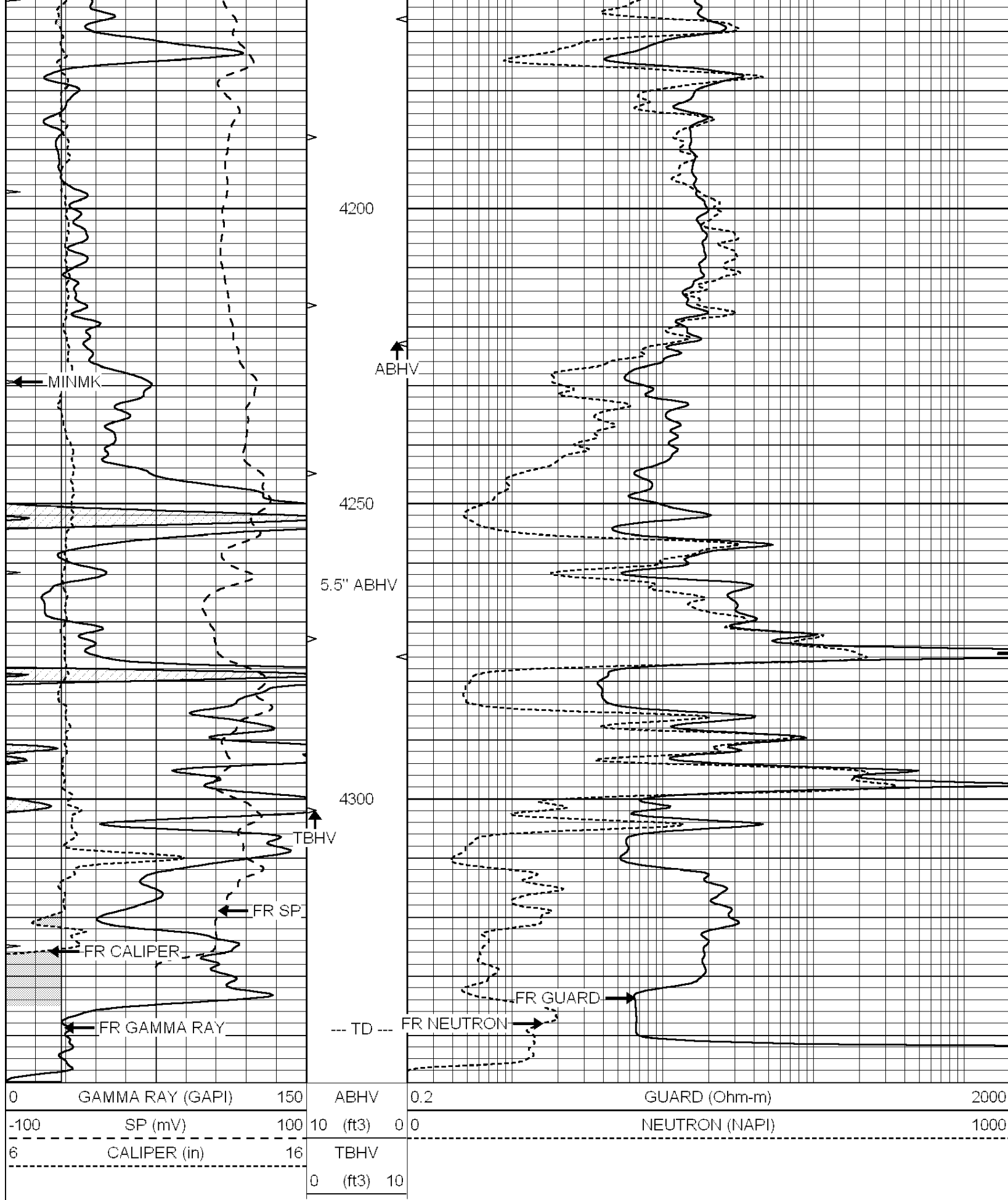
0	GAMMA RAY (GAPI)	150	ABHV	0.2	GUARD (Ohm-m)	2000
-100	SP (mV)	100	10 (ft3)	0	NEUTRON (NAPI)	1000
6	CALIPER (in)	16	TBHV			
			0 (ft3)	10		







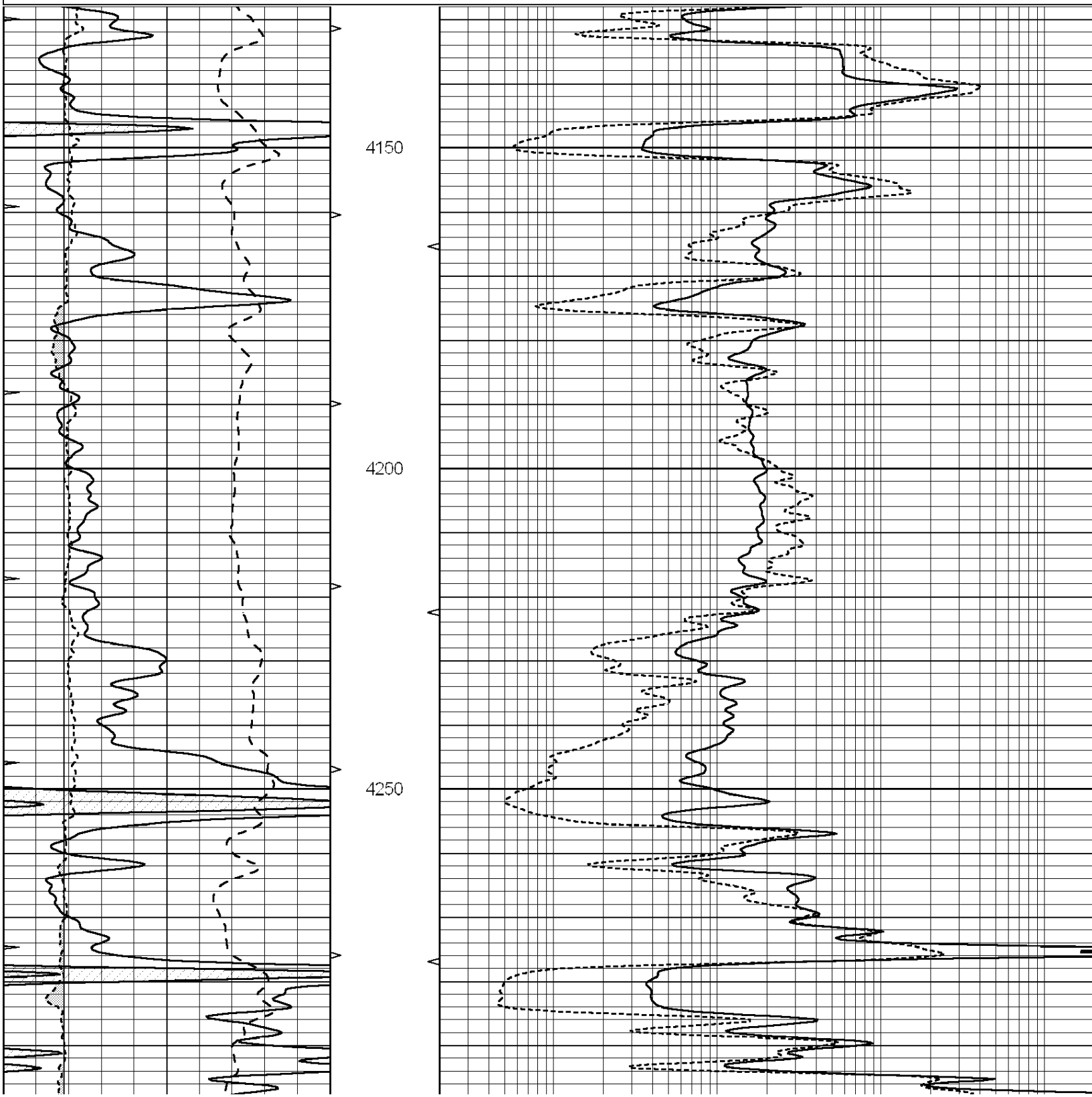
POROSITY LIMESTONE (FLUID FILLED HOLE)

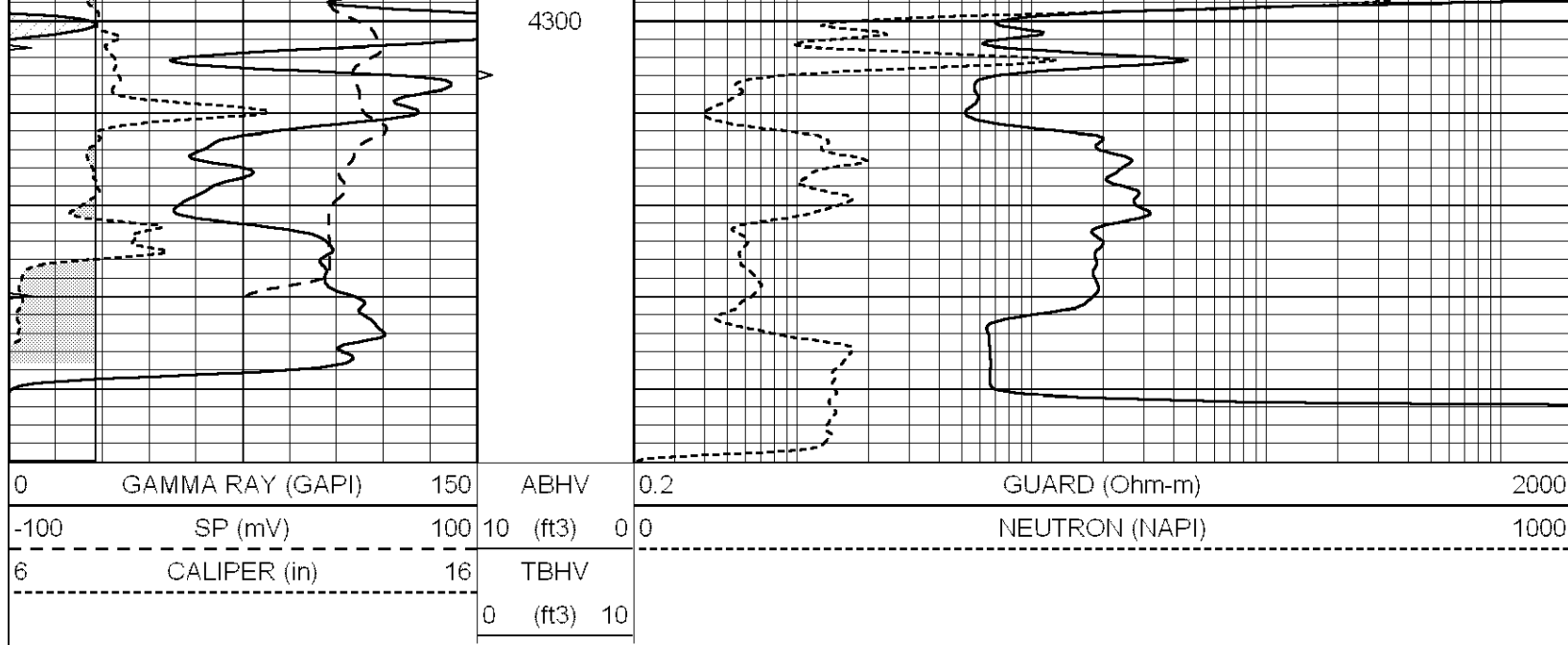




Database File: 001211rag.db
Dataset Pathname: pass3.2
Presentation Format: rag
Dataset Creation: Wed Dec 07 04:35:12 2011
Charted by: Depth in Feet scaled 1:240

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		





Calibration Report

Database File: 001211rag.db
 Dataset Pathname: pass4.2
 Dataset Creation: Wed Dec 07 04:21:27 2011

Neutron Calibration Report

Serial Number: RAG1
 Tool Model: RAG
 Performed: Tue Dec 06 23:53:41 2011

Calibrator Values: 0 1 NAPI
 Calibrator Readings: 0 1 cps

Sensitivity: 1.2 NAPI/cps

Micro Spherically Focused Log Calibration Report

Serial-Model: RAG1-A
 Performed: Wed Dec 07 02:21:46 2011

	Readings			References			Results	
	Low	High		Low	High		m	b
Conductivity	0.0110	0.9000	V	10.0000	1000.0000	mmho	1800.0000	-4.5000
Caliper	0.2401	0.3178	V	8.8000	16.5000	in	99.1016	-14.9983

Gamma Ray Calibration Report

Serial Number: RAG1
 Tool Model: RAG
 Performed: Tue Dec 06 23:53:10 2011

Calibrator Value: 1.0 GAPI

Background Reading: 0.9 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.8000 GAPI/cps