

PIONEER
Pioneer Energy Services

**RADIATION GUARD
LOG**

Company BEREXCO, LLC		Company BEREXCO, LLC	
Well OWENS NO.3-19		Well OWENS NO.3-19	
Field HOURGLASS		Field HOURGLASS	
County CHEYENNE		County CHEYENNE	
State KANSAS		State KANSAS	
Location: API #: 15-023-21,430-00-00		Other Services	
1980' FNL & 1860' FWL		MEL	
SEC 19 TWP 1S RGE 37W			
Permanent Datum	GROUND LEVEL	Elevation	
Log Measured From	KELLY BUSHING	K.B.	3185
Drilling Measured From	KELLY BUSHING	D.F.	N/A
		G.L.	3174
Date	7/20/2015		
Run Number	ONE		
Depth Driller	4725		
Depth Logger	4727		
Bottom Logged Interval	4726		
Top Log Interval	250		
Casing Driller	8.625 @ 294		
Casing Logger	294		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL		
Salinity,ppm CL	1,000		
Density / Viscosity	9.3	62	
pH / Fluid Loss	11.0	6.4	
Source of Sample	Flowline		
Rm @ Meas. Temp	1.35 @ 70		
Rmt @ Meas. Temp	1.01 @ 70		
Rmc @ Meas. Temp	1.82 @ 70		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.77 @ 123		
Operating Rig Time	4 HOURS		
Max Rec. Temp. F	123		
Equipment Number	91		
Location	Hays		
Recorded By	C. DESAIRE	D. SCHMIDT	
Witnessed By	BRYAN BYNOG		

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

BIRD CITY KS, N TO DD RD, 2 E TO 30 RD,
2 S, W INTO

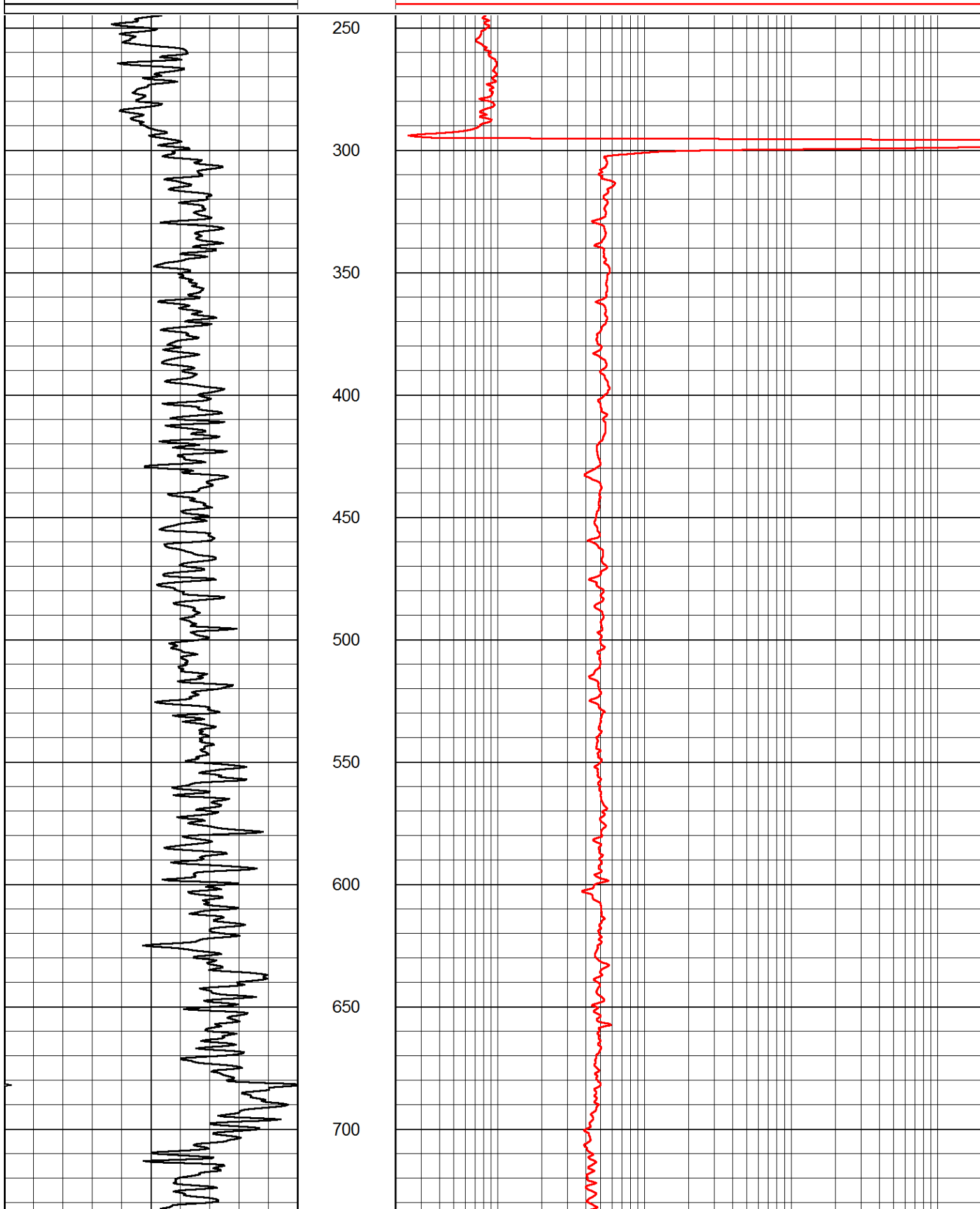
Log Measured From: KELLY BUSHING 11 Ft. Above Permanent Datum

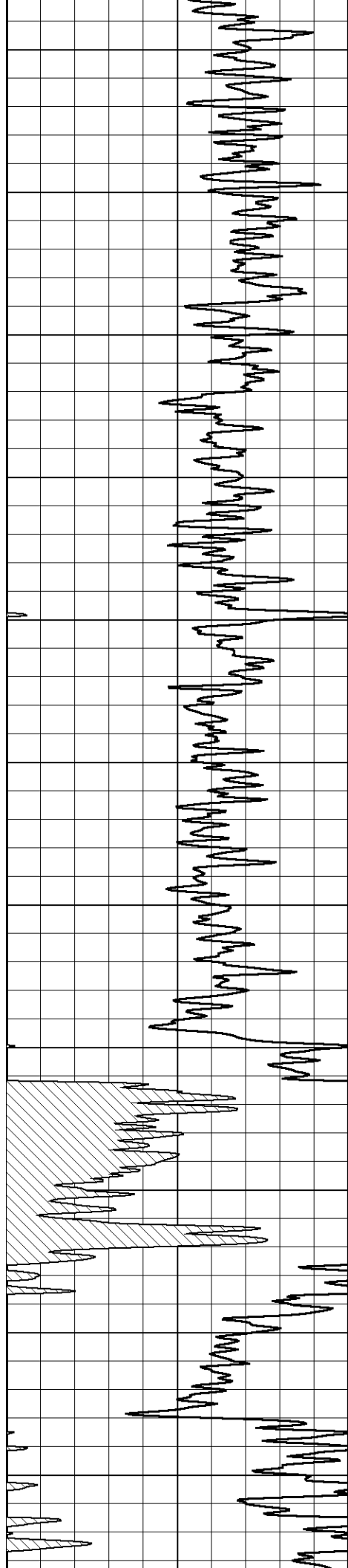
THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew Engineer: C. DESAIRE Operator: D. SCHMIDT Operator: Operator:	This Log Record Was Witnessed By Primary Witness: BRYAN BYNOG Secondary Witness: Secondary Witness: Secondary Witness:
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Database File berhd.db
Dataset Pathname RAG/berrag
Presentation Format rag2in
Dataset Creation Mon Jul 20 04:22:51 2015
Charted by Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150 0.2 lgrd (Ohm-m) 2000





750

800

850

900

950

1000

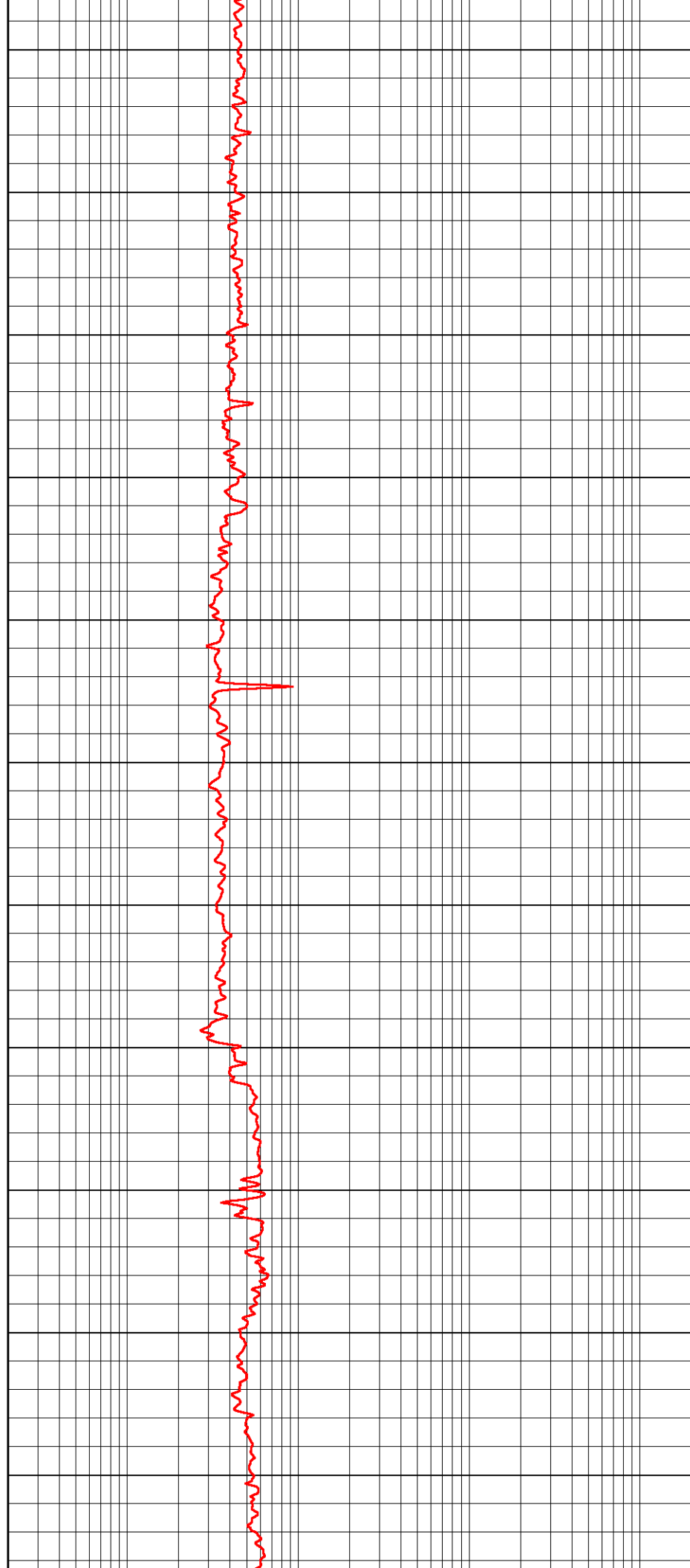
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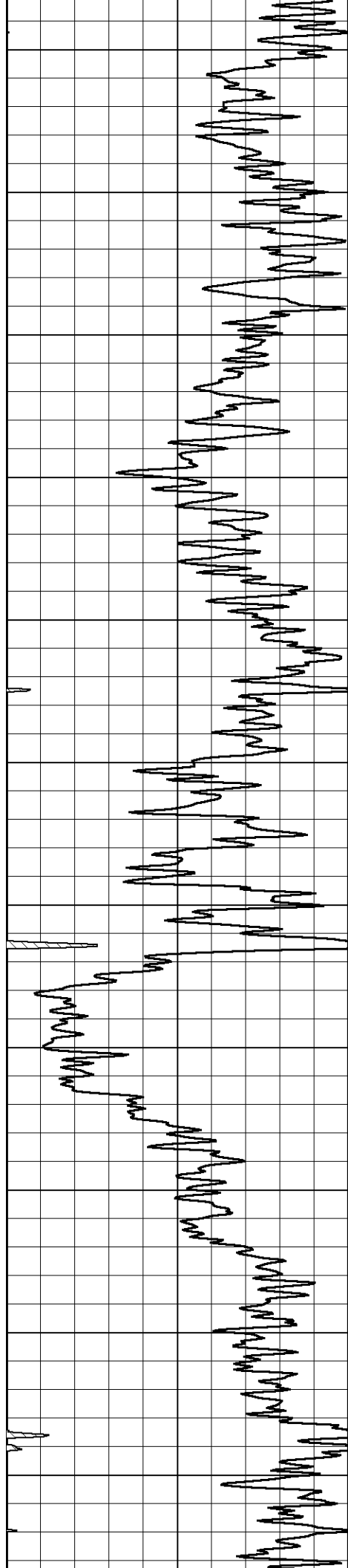
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1150

1200

1250





1300

1350

1400

1450

1500

1550

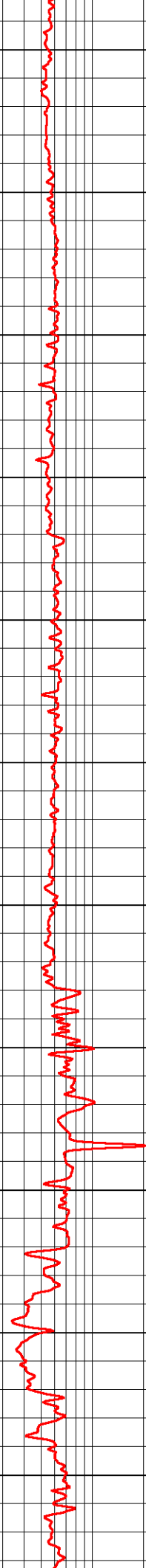
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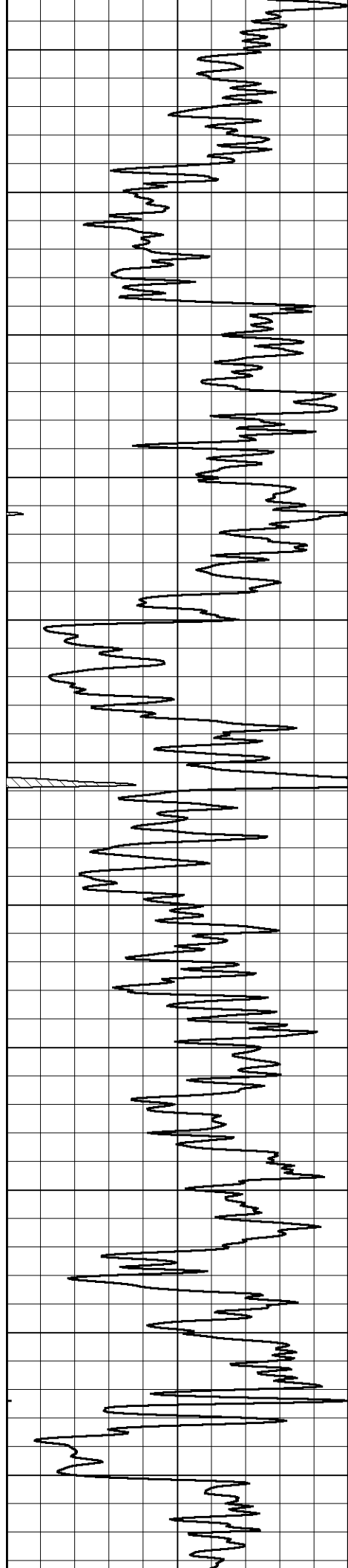
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1700

1750

1800





1850

1900

1950

2000

2050

2100

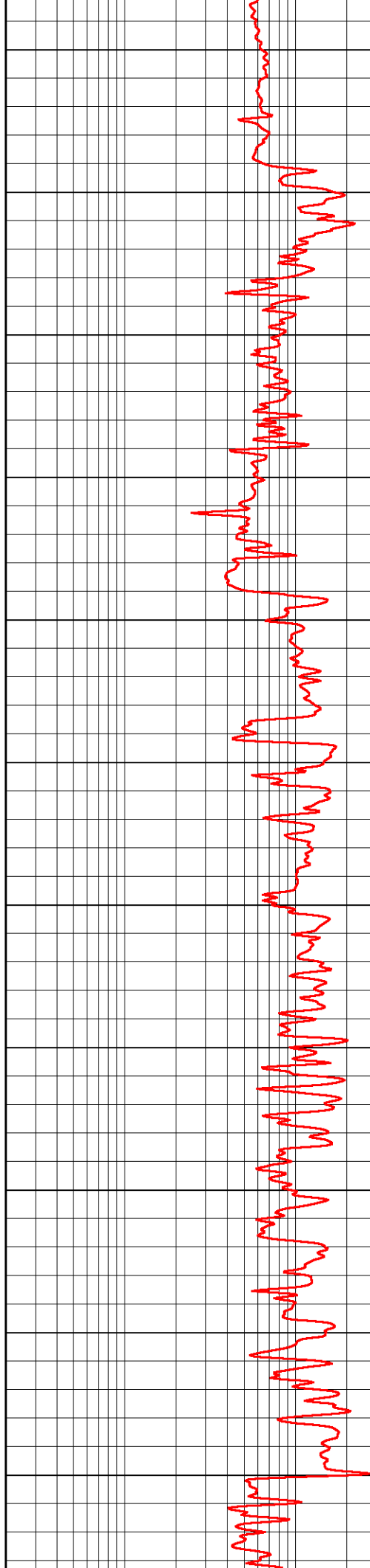
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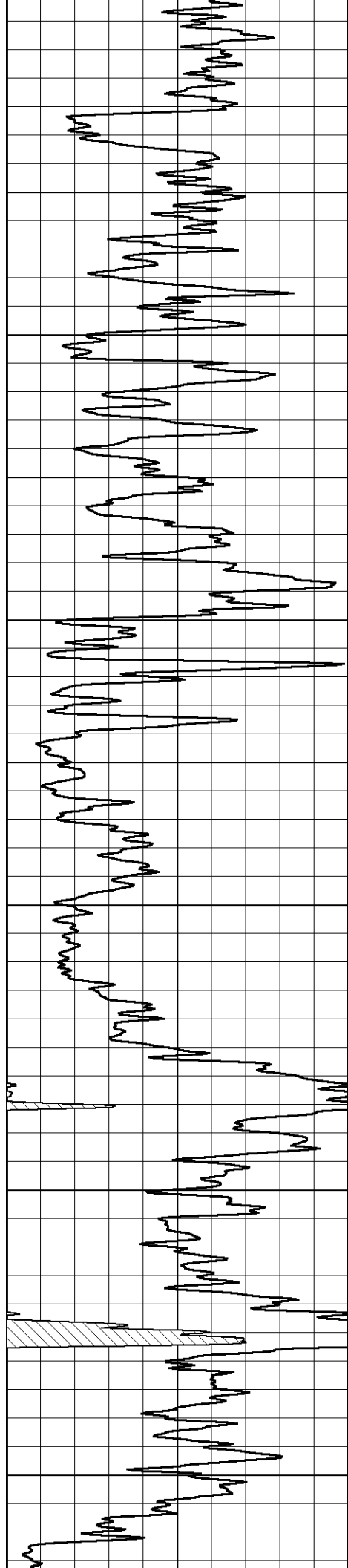
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2250

2300

2350





2400

2450

2500

2550

2600

2650

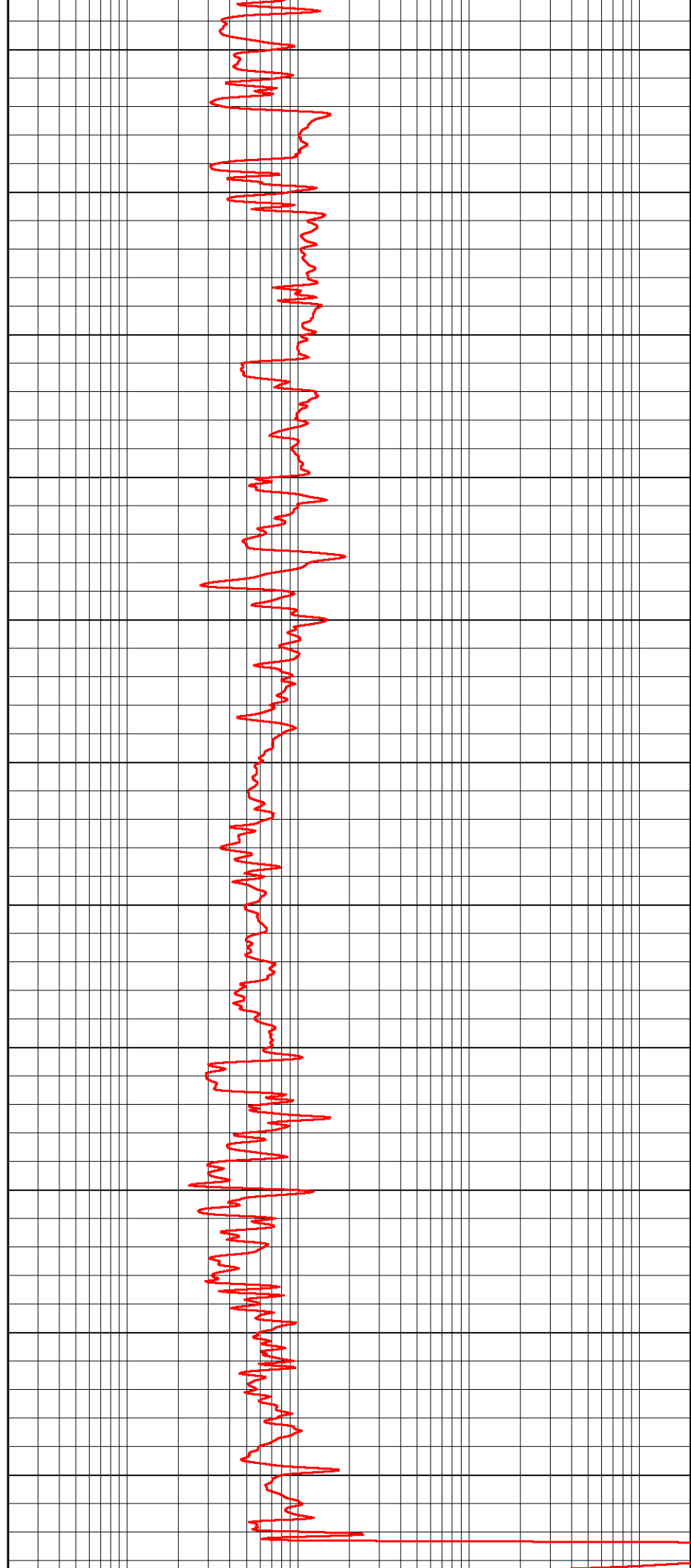
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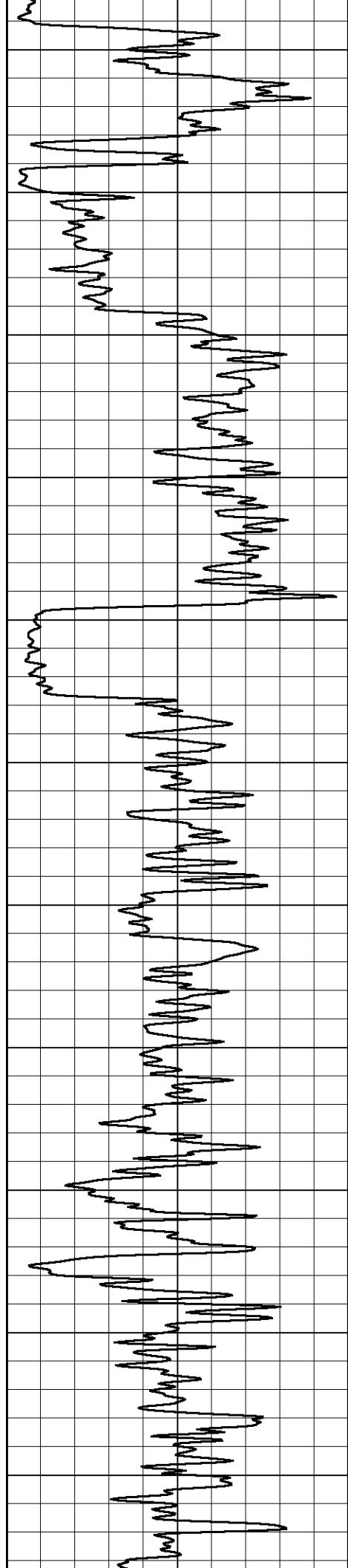
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2800

2850

2900





2950

3000

3050

3100

3150

3200

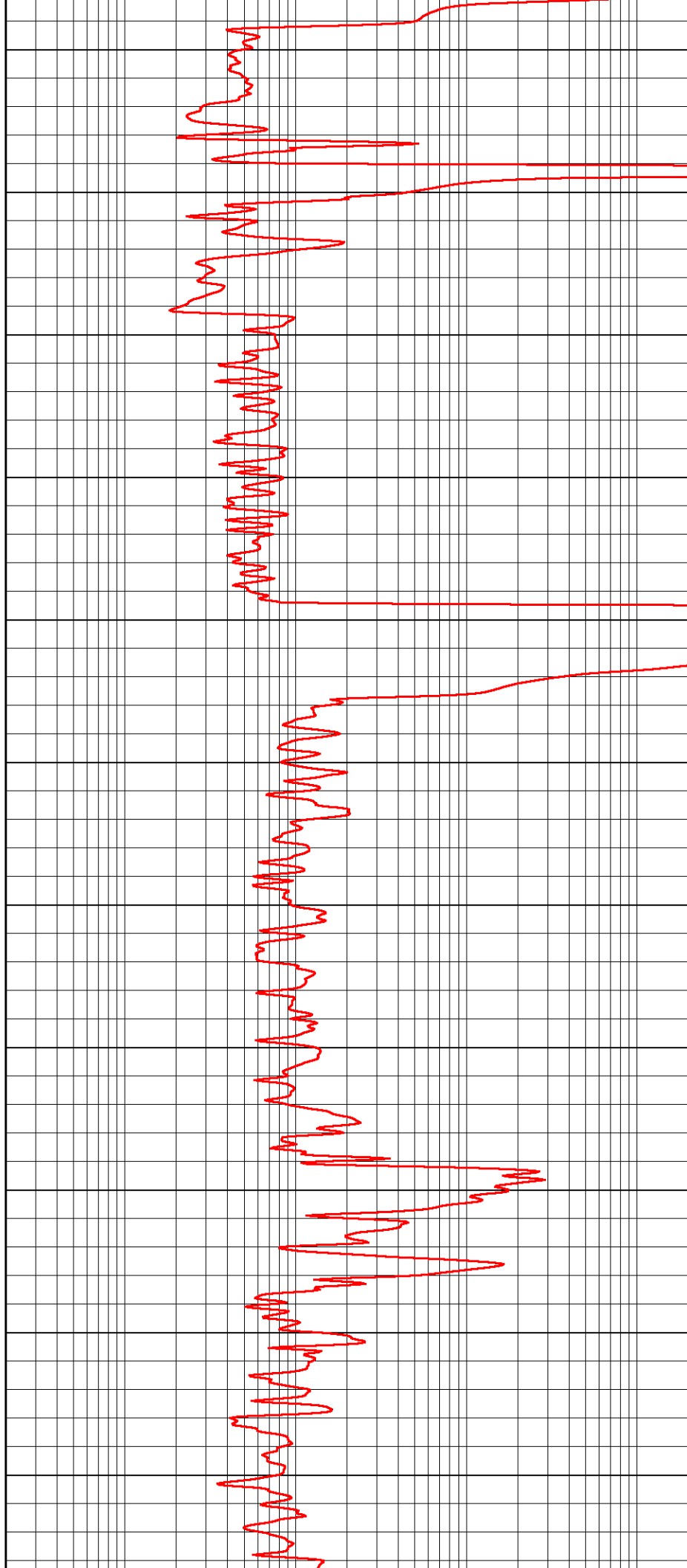
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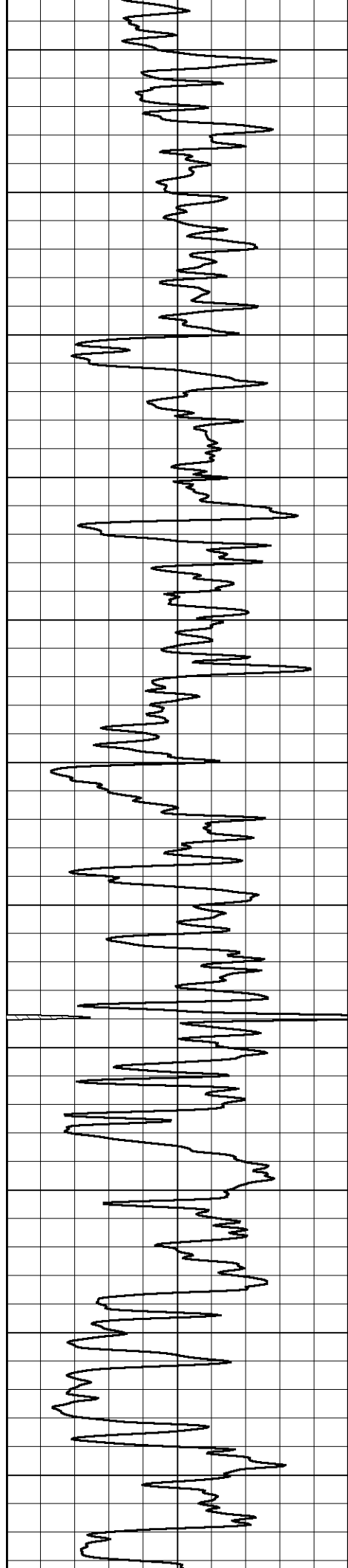
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3400

3450





3500

3550

3600

3650

3700

3750

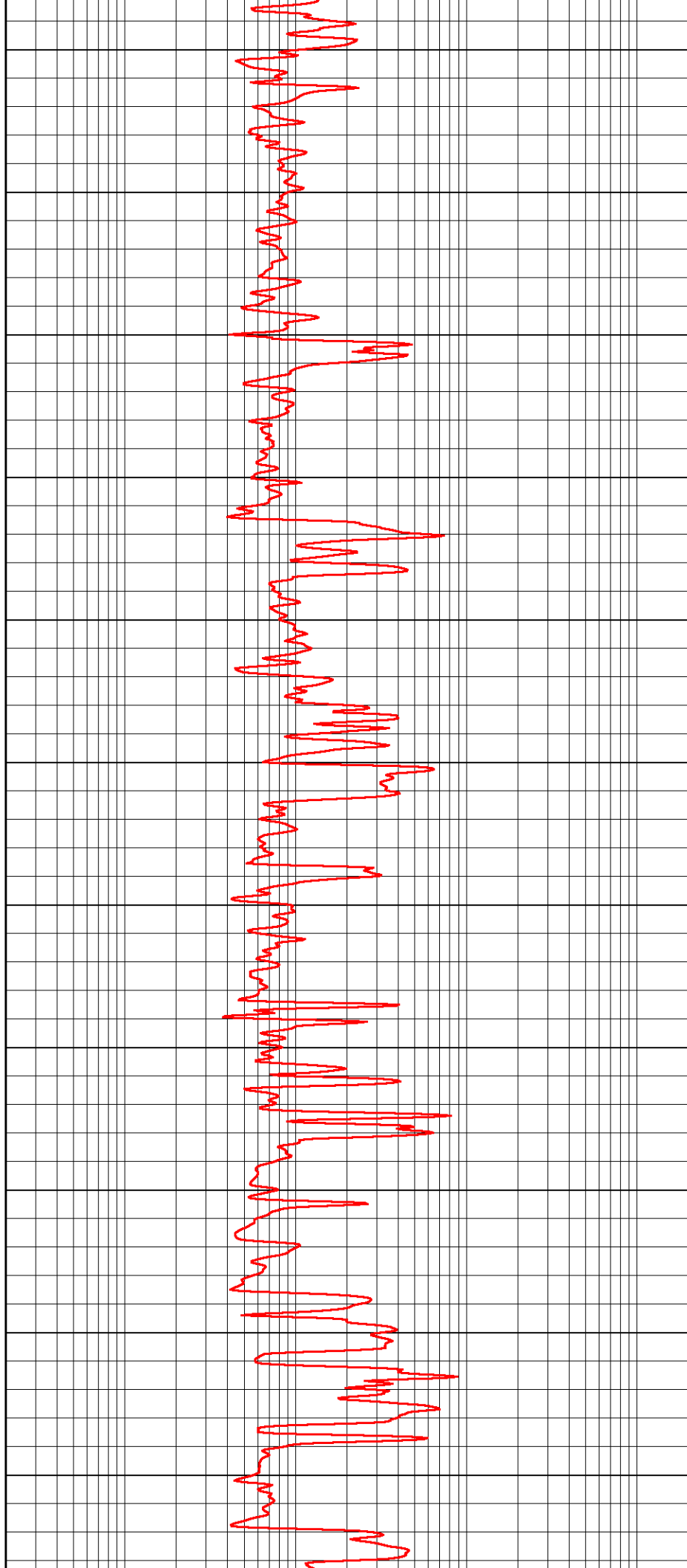
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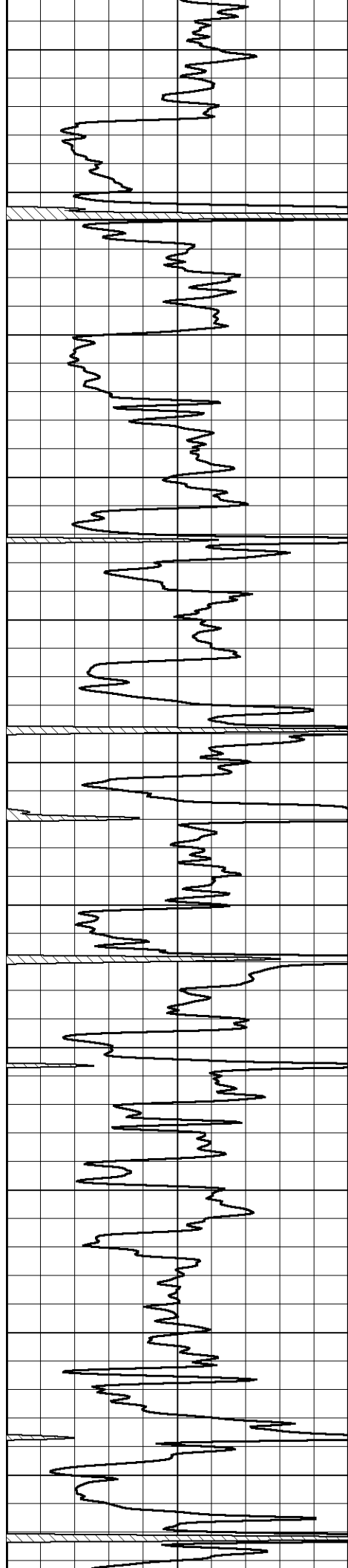
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3900

3950

4000





4050

4100

4150

4200

4250

4300

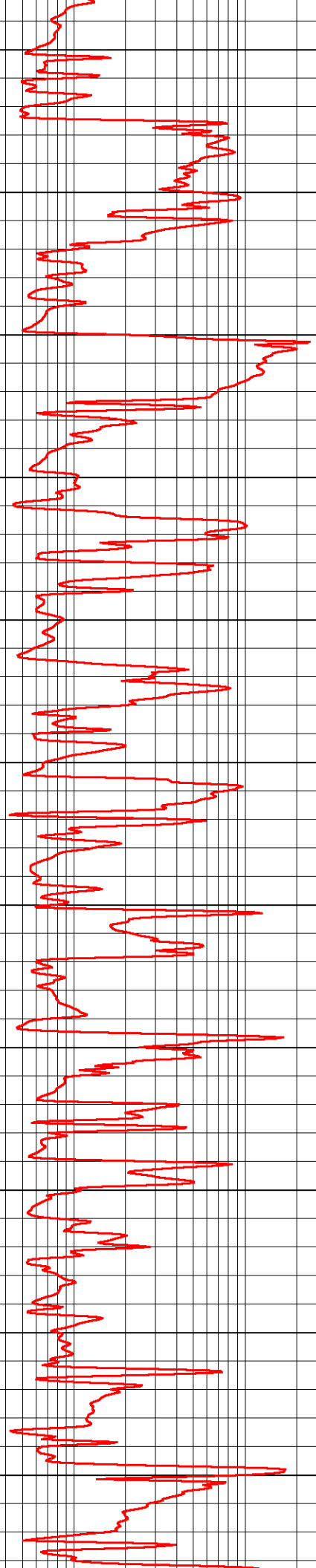
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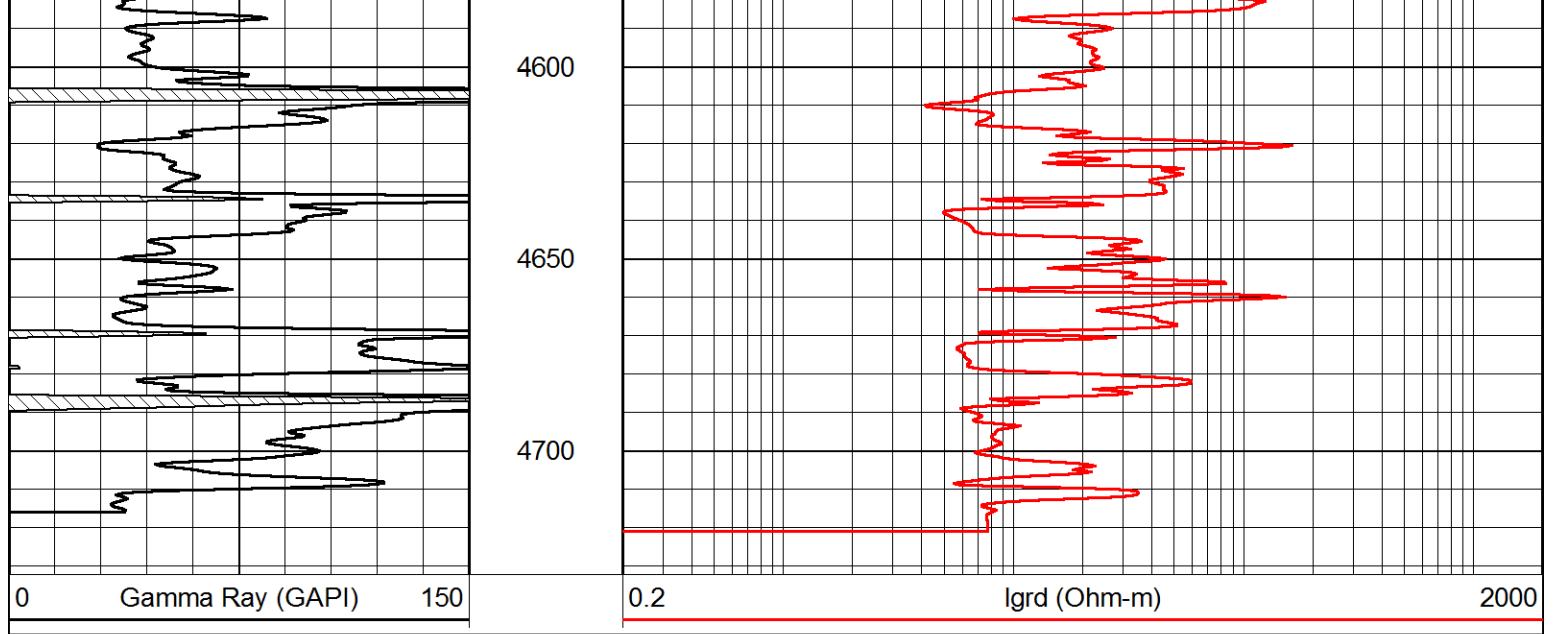
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4450

4500

4550



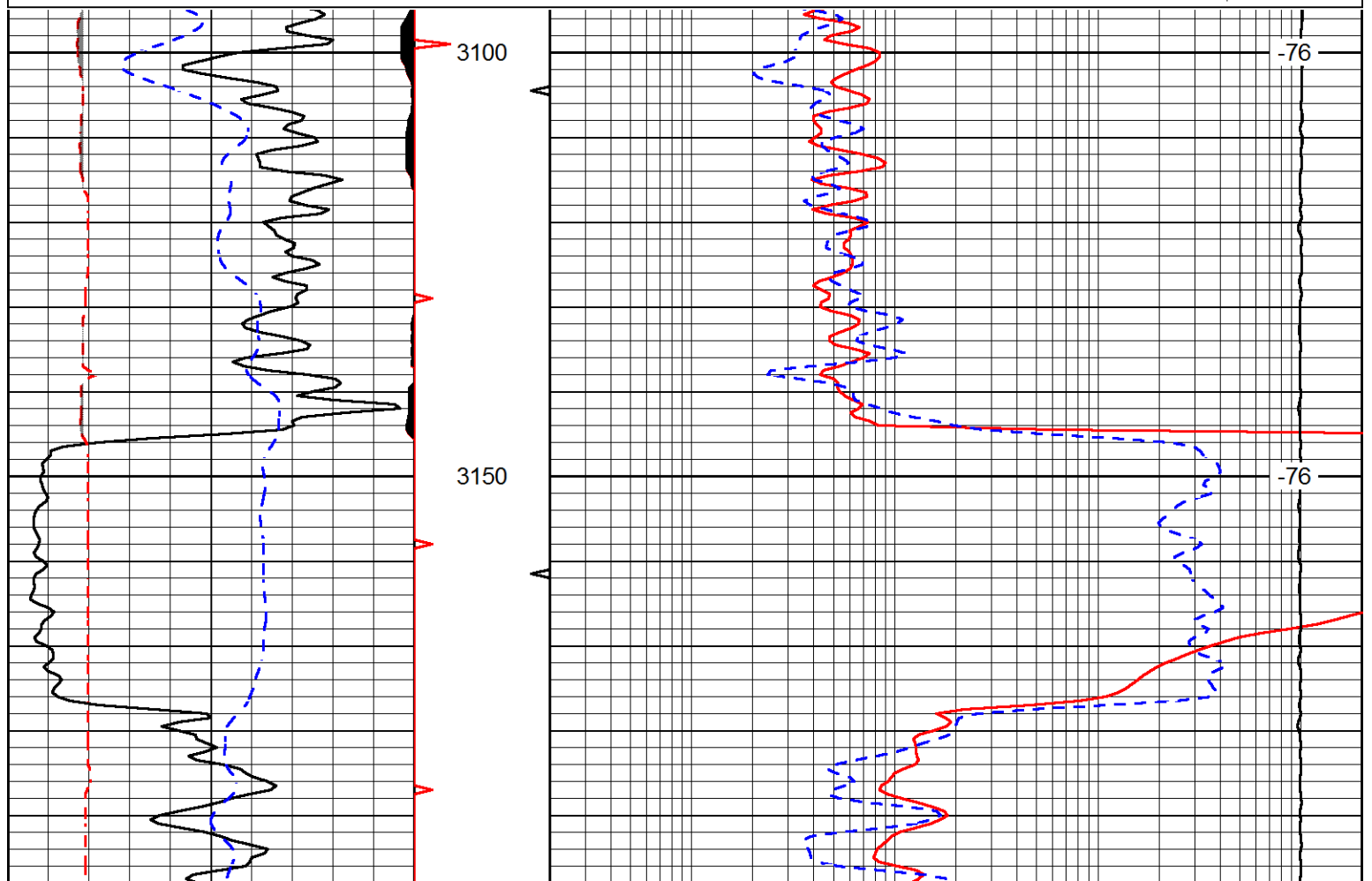


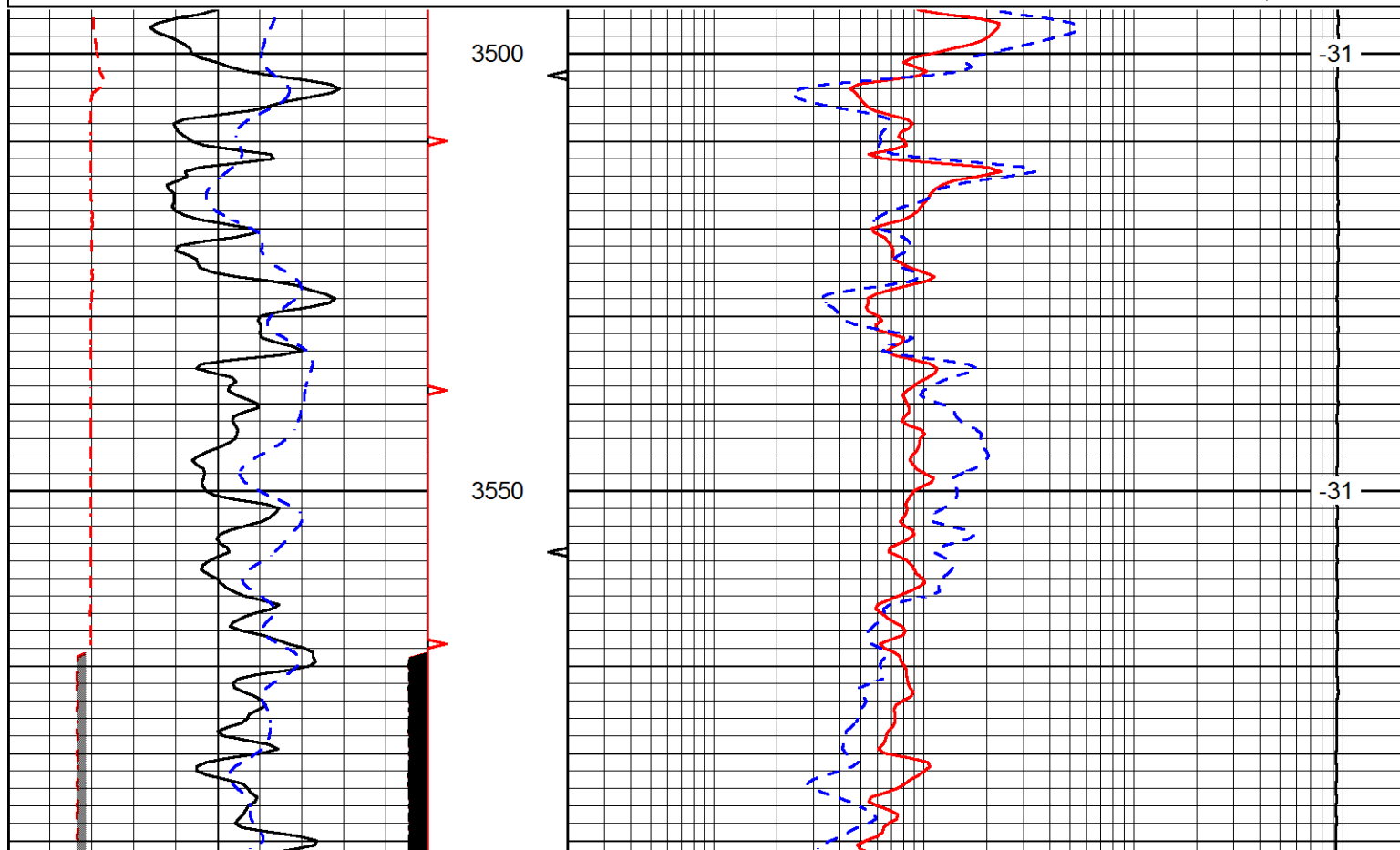
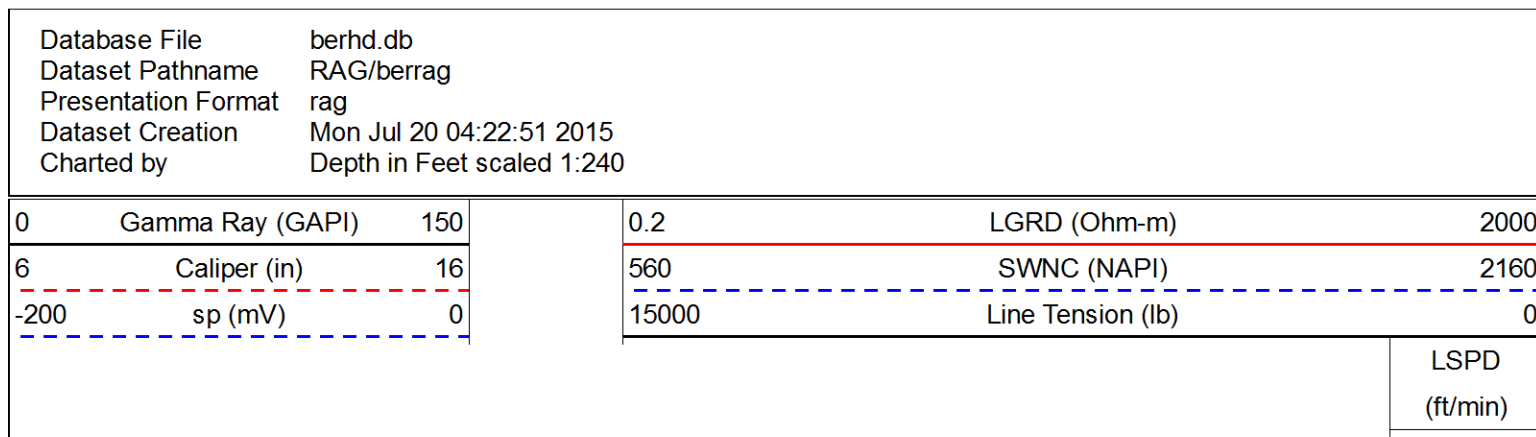
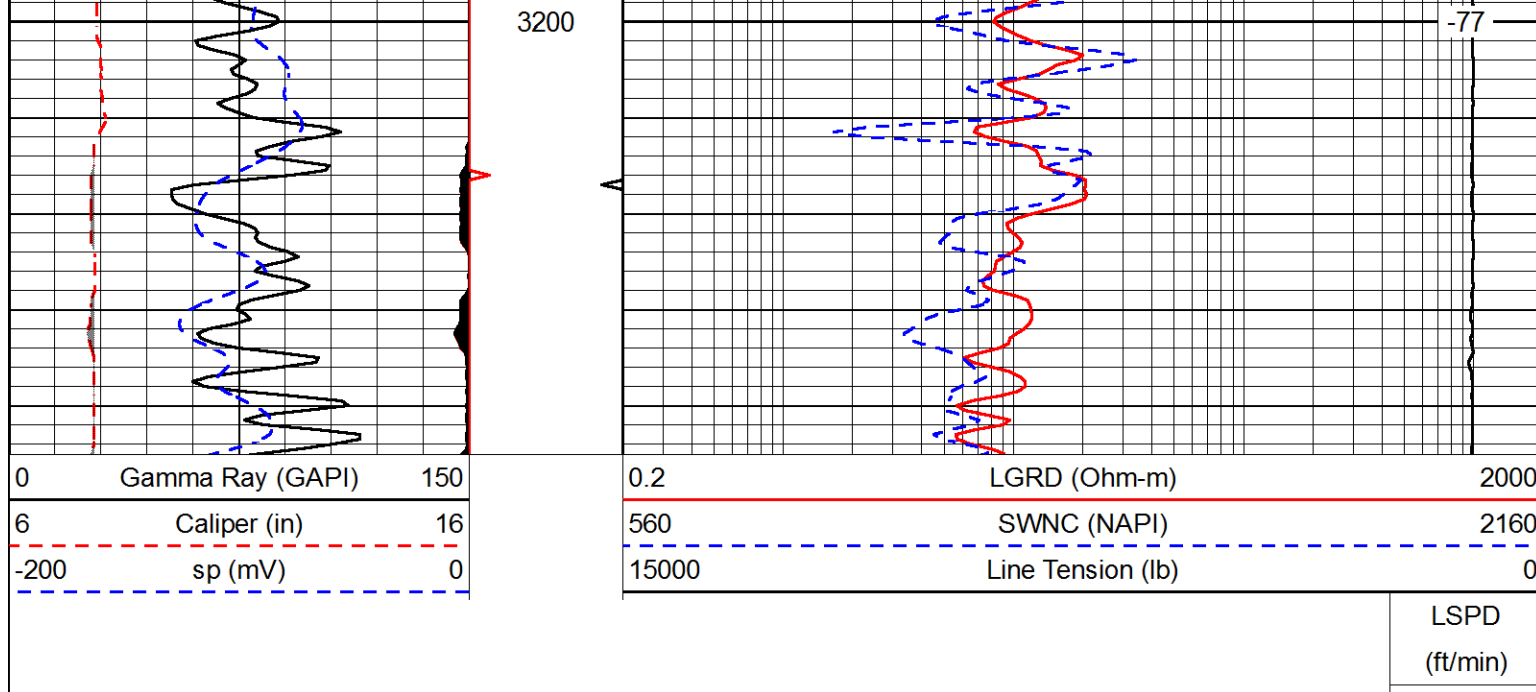
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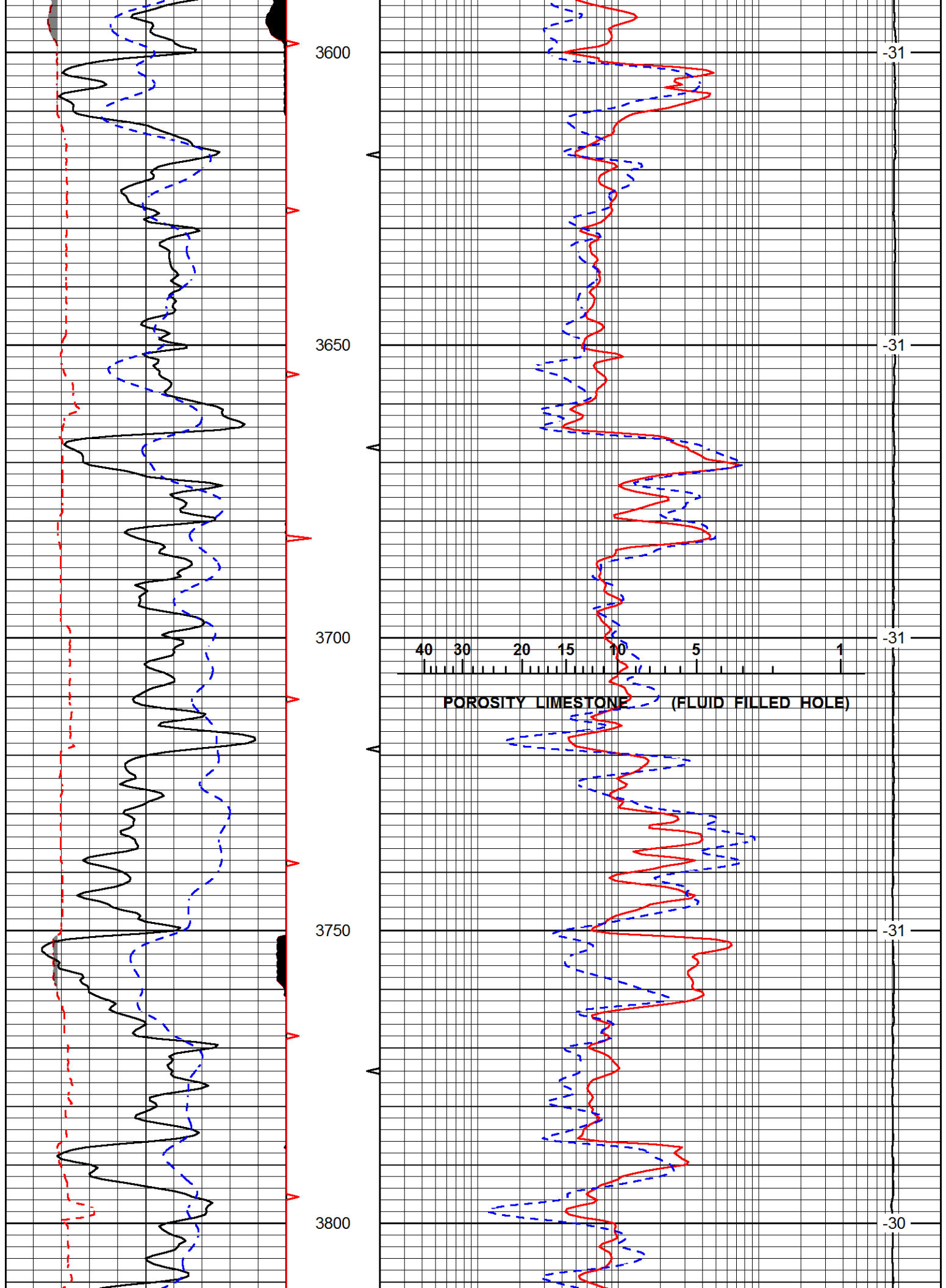
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-200	sp (mV)	0

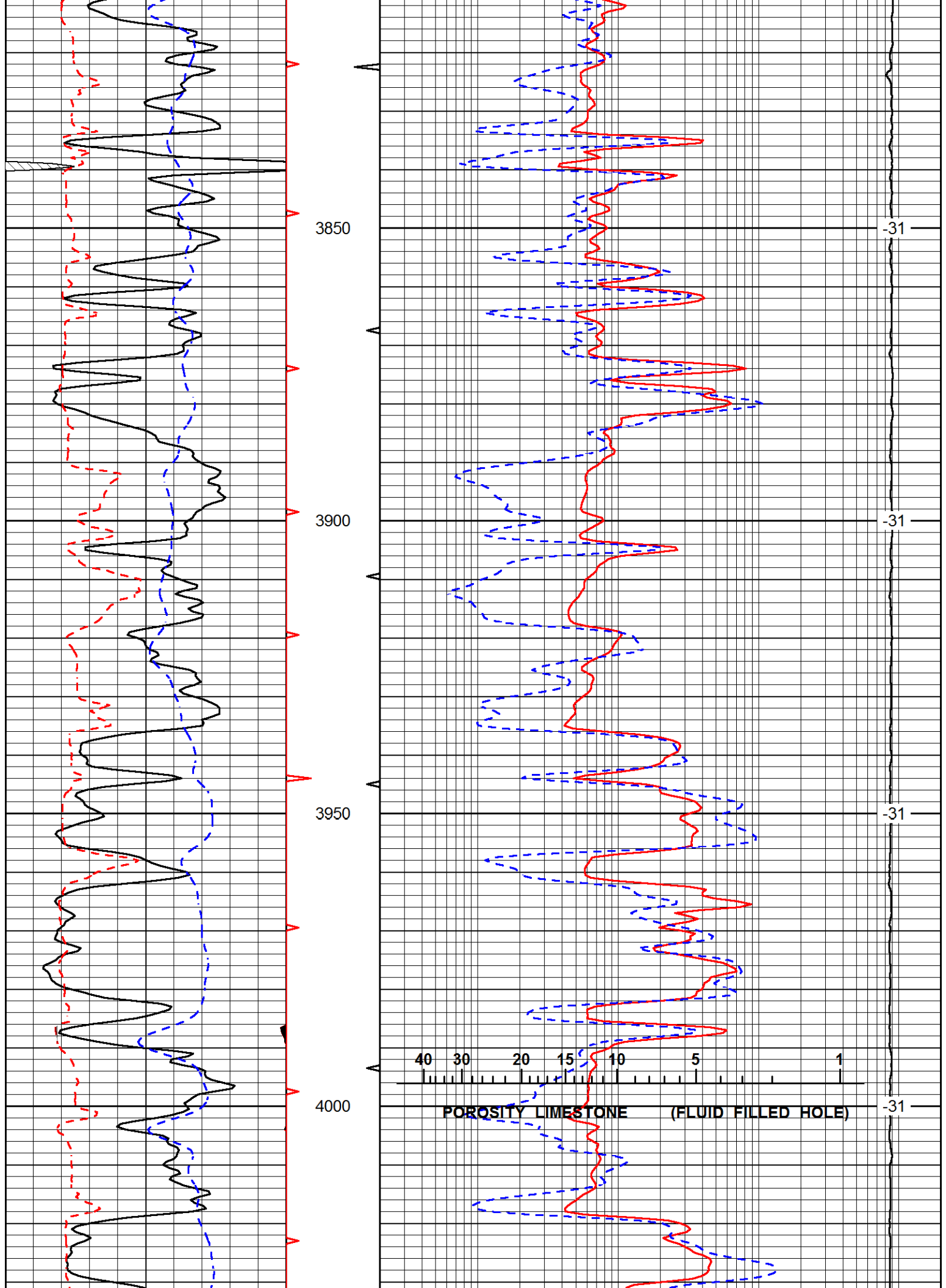
0.2	LGRD (Ohm-m)	2000
560	SWNC (NAPI)	2160
15000	Line Tension (lb)	0

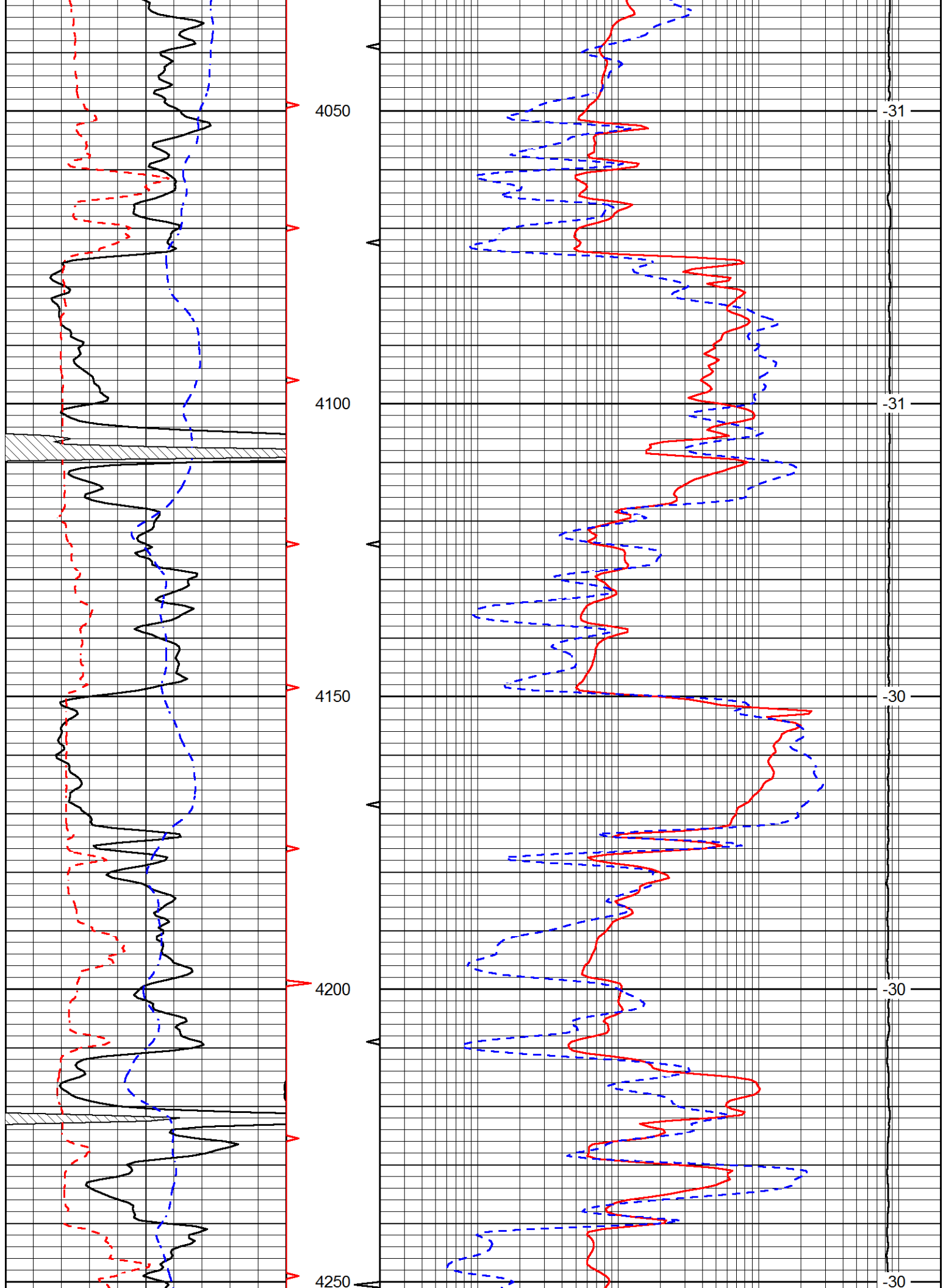
LSPD
(ft/min)

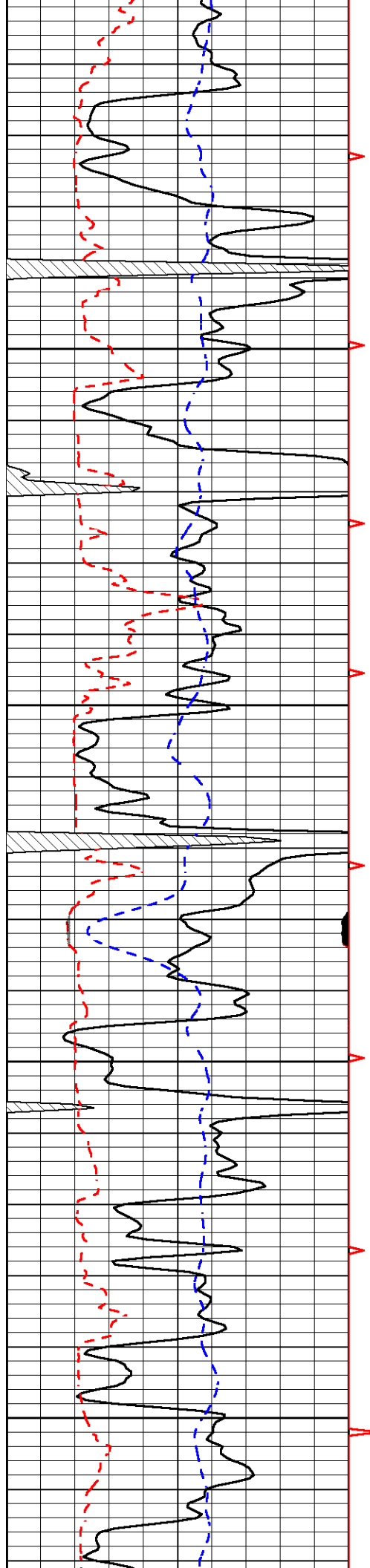










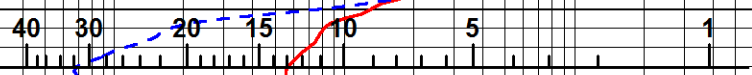


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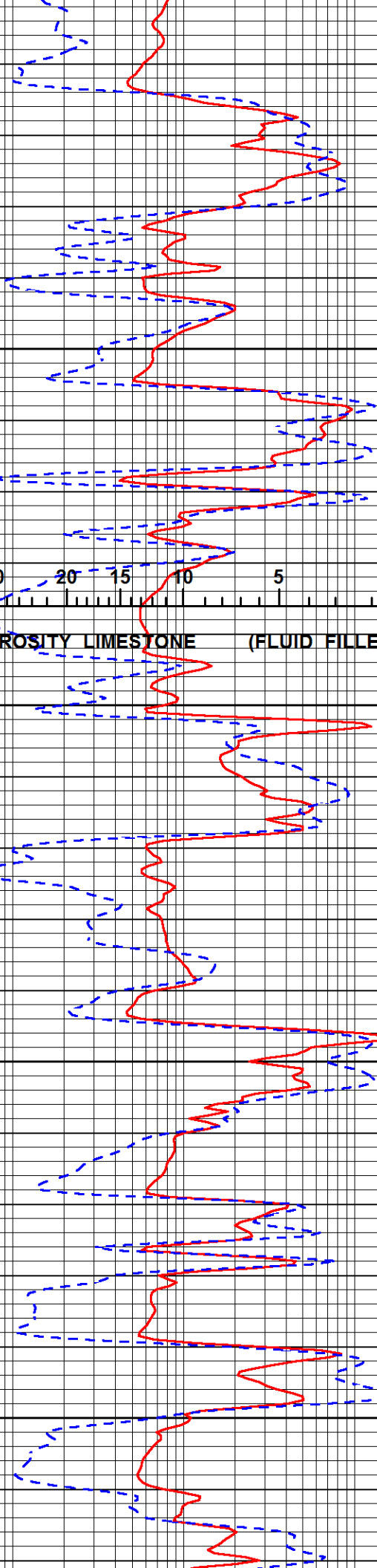
4350

4400

4450



POROSITY LIMESTONE (FLUID FILLED HOLE)

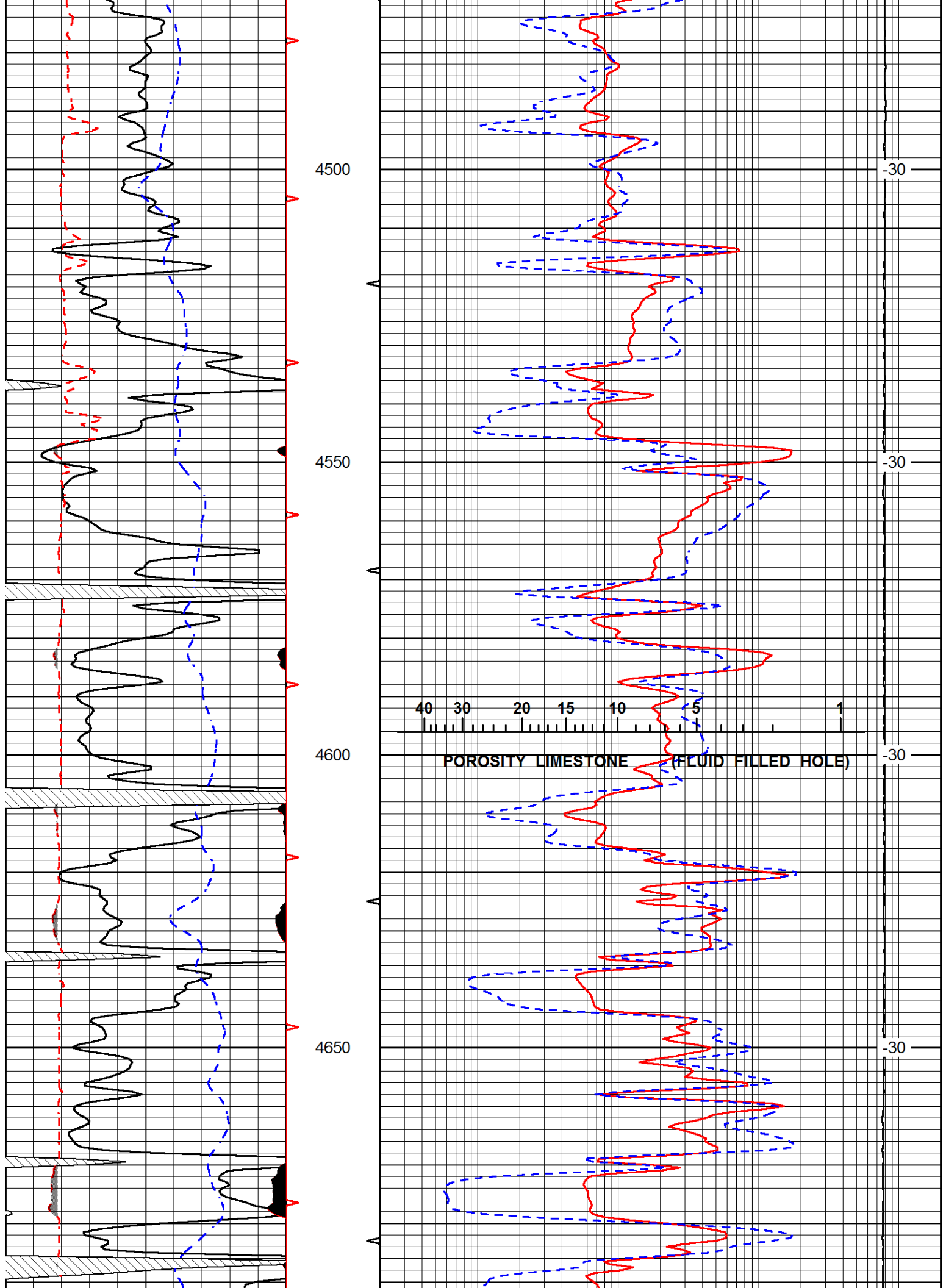


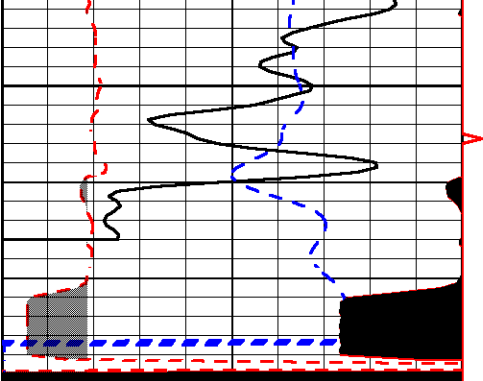
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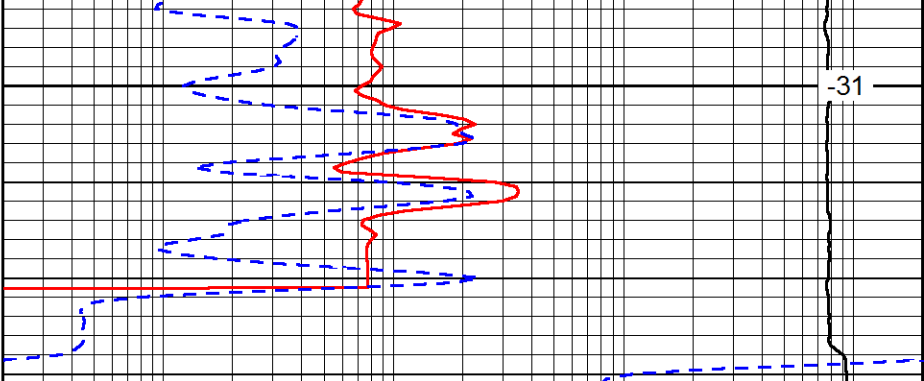
4450





4700

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-200	sp (mV)	0



31

0.2	LGRD (Ohm-m)	2000
560	SWNC (NAPI)	2160
15000	Line Tension (lb)	0

LSPD
(ft/min)