



Pioneer Energy Services

Radiation Guard Log

API No.		Company Cobalt Energy, LLC	
15-039-21,168-00-00		Well LMB "A" #1-1	
Field		County Decatur State Kansas	
Location		1,650' FSL & 660' FEL	
Sec: 1		Twp: 2S Rge: 28W	
Permanent Datum Ground Level		Elevation 2551	
Log Measured From Kelly Bushing		5 Ft. Above Perm. Datum	
Drilling Measured From Kelly Bushing		K.B. 2556 D.F. 2551 G.L. 2551	
Date		4/18/2013	
Run Number		One	
Depth Driller		3650	
Depth Logger		3647	
Bottom Logged Interval		3646	
Top Log Interval		200	
Casing Driller		8.625 @ 220	
Casing Logger		220	
Bit Size		7.875	
Type Fluid in Hole		Chemical	
Salinity, ppm CL		900	
Density / Viscosity		9.1 57 10.5 7.2	
pH / Fluid Loss			
Source of Sample		Flowline	
Rm @ Meas. Temp		1.10 @ 58	
Rmf @ Meas. Temp		.83 @ 58	
Rmc @ Meas. Temp		1.49 @ 58	
Source of Rmf / Rmc		Charts	
Rm @ BHT		.57 @ 113	
Operating Rig Time		2 1/2 Hours	
Max Rec. Temp. F		113	
Equipment Number		108	
Location		Hays	
Recorded By		J. Long	
Witnessed By		Terry McLeod	

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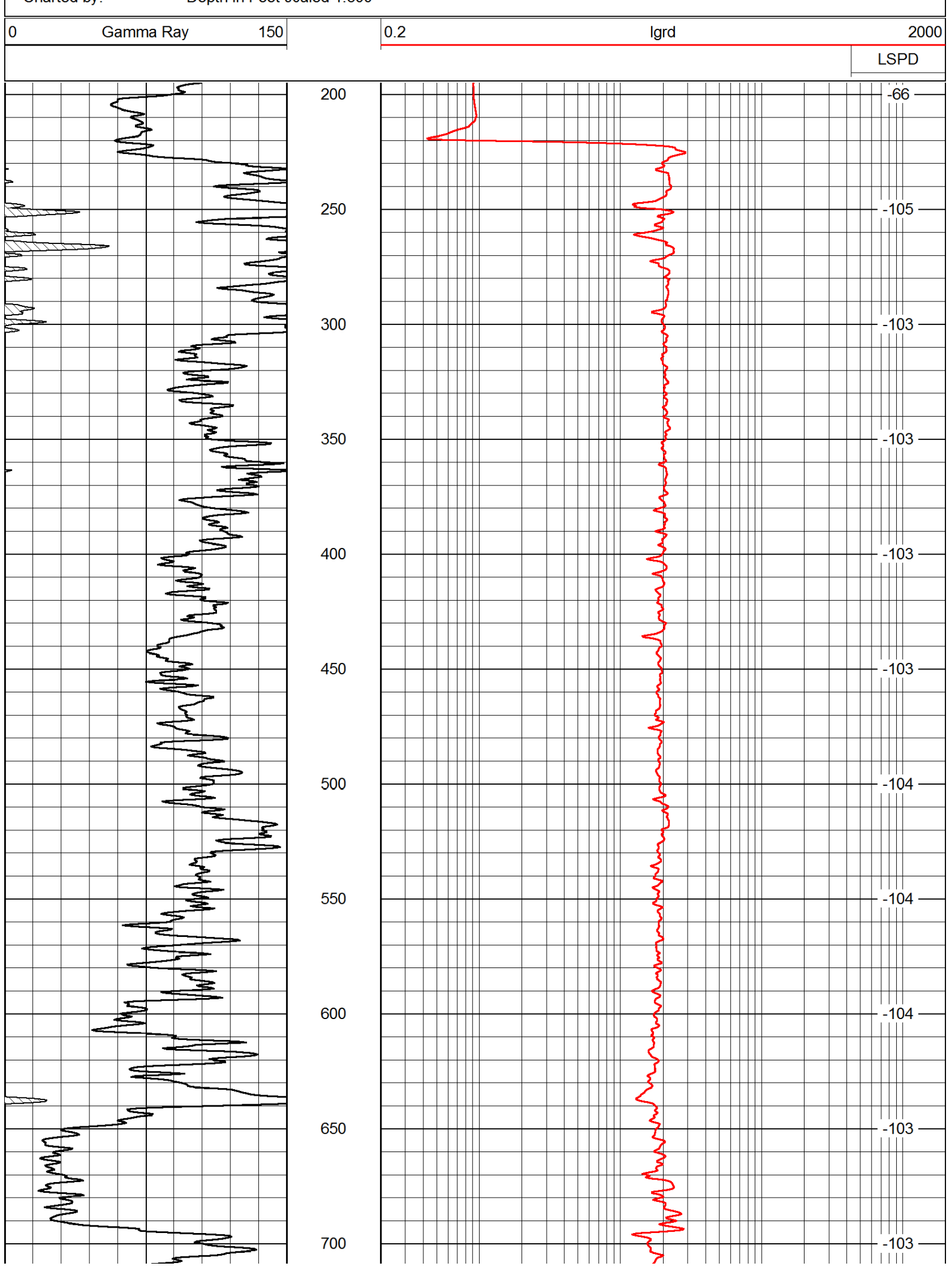
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

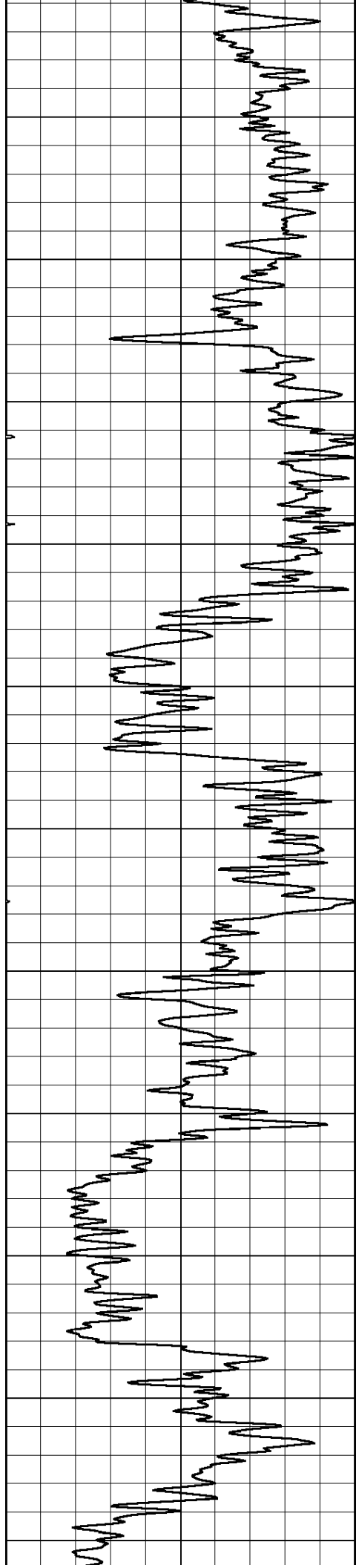
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Norton, 27 West, 4 North, 1 West, 1 1/3 North, West Into

Database File: c:\warrior\data\cobalt_lmb a #1-1\cobalt_lmb_a_1-1hd.db
Dataset Pathname: rag/cobrag
Presentation Format: rag2in
Dataset Creation: Thu Apr 18 05:22:52 2013
Charted by: Depth in Feet scaled 1:600





750

800

850

900

950

1000

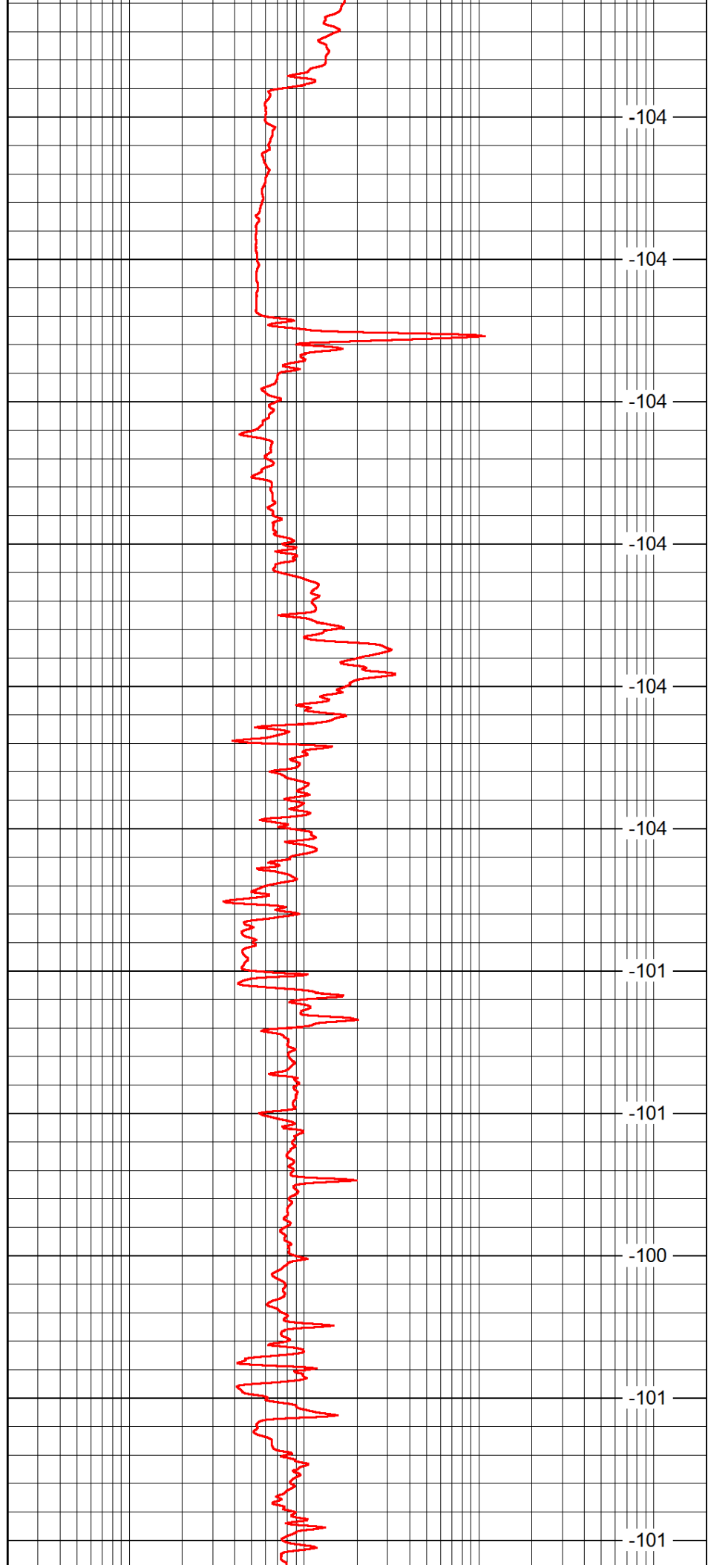
1050

1100

1150

1200

1250



-104

-104

-104

-104

-104

-104

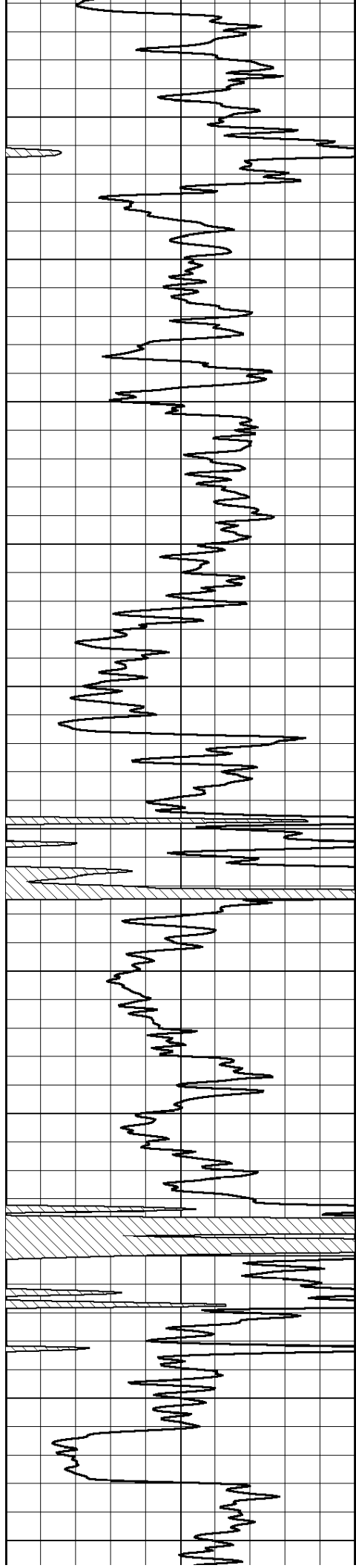
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-101

-101



1300

1350

1400

1450

1500

1550

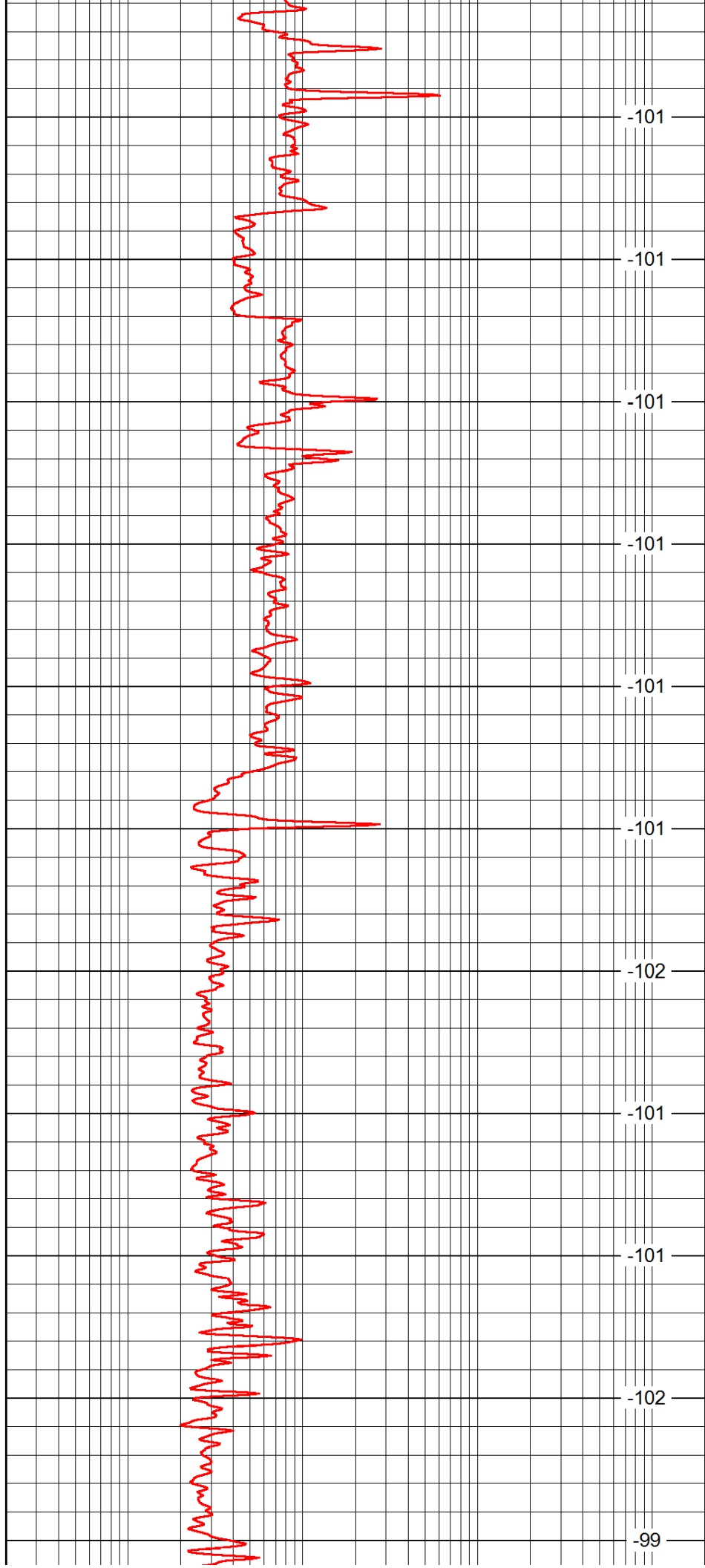
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1650

1700

1750

1800



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-101

-101

-101

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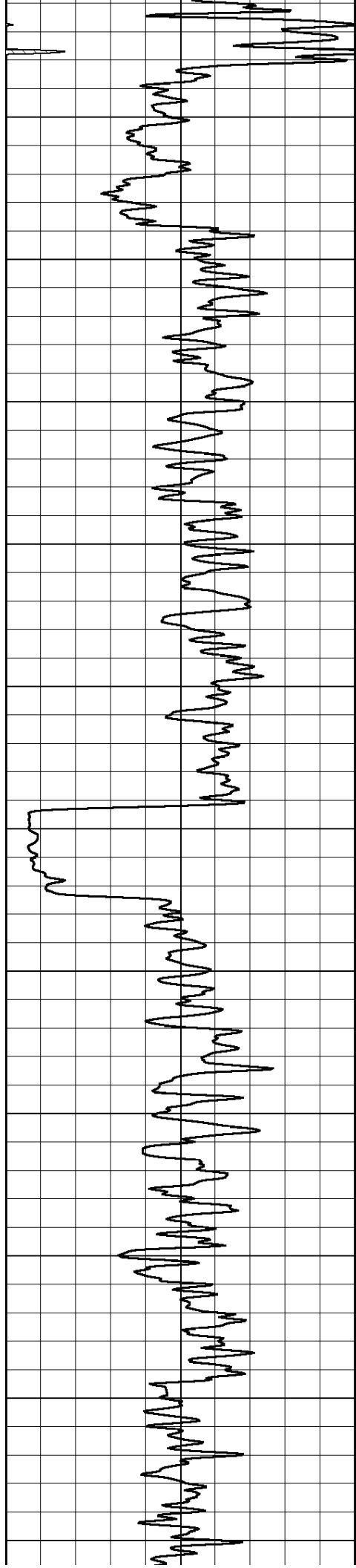
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-101

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-99



1850

1900

1950

2000

2050

2100

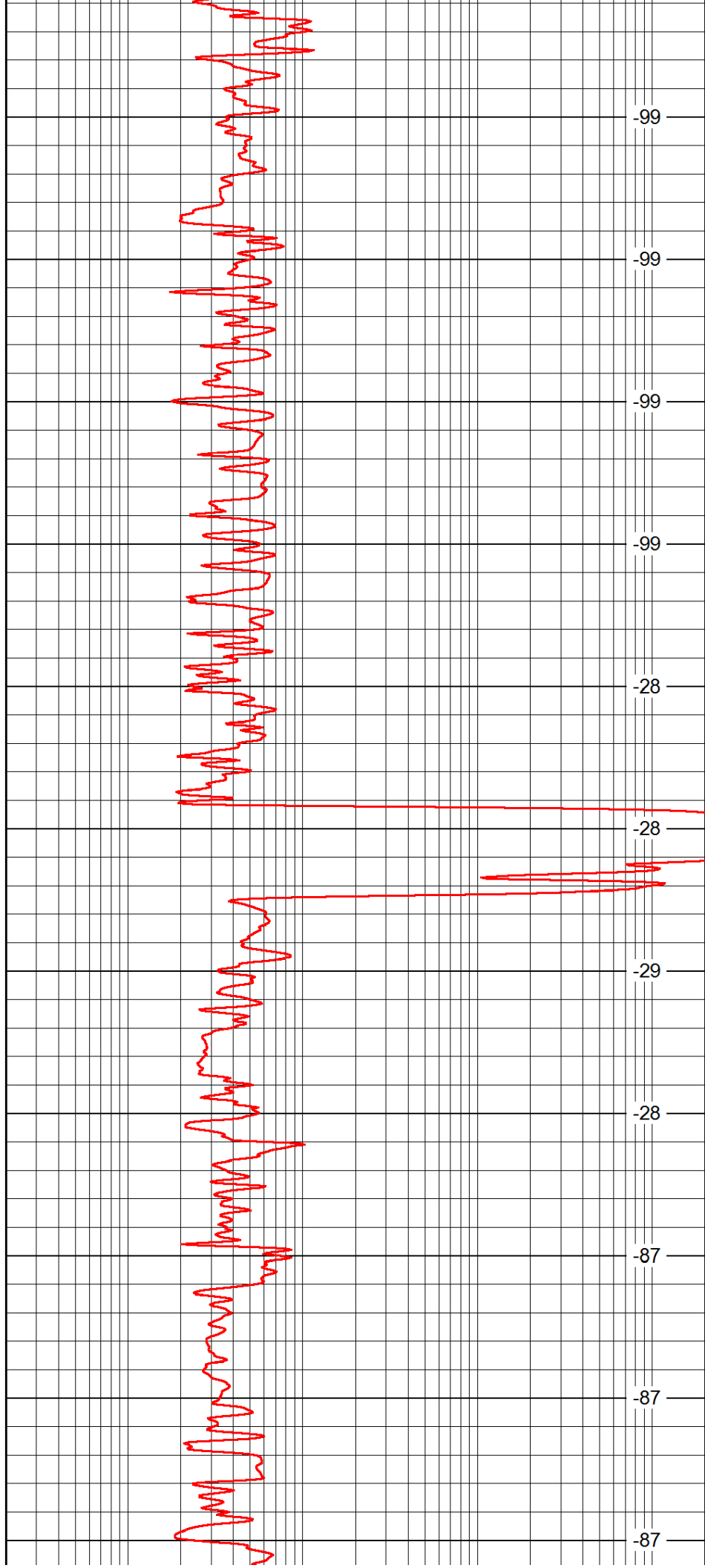
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2200

2250

2300

2350



-99

-99

-99

-99

-28

-28

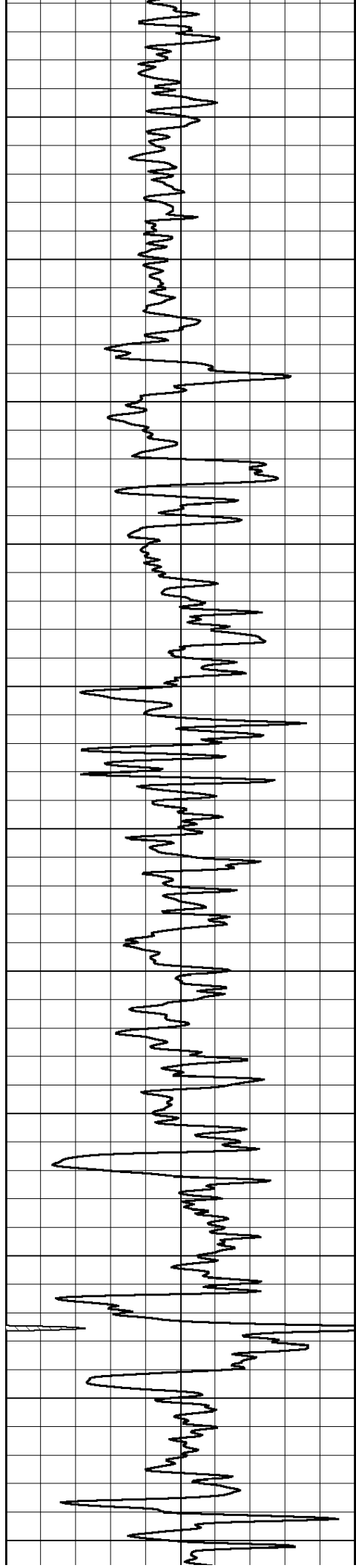
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-87

-87



2400

2450

2500

2550

2600

2650

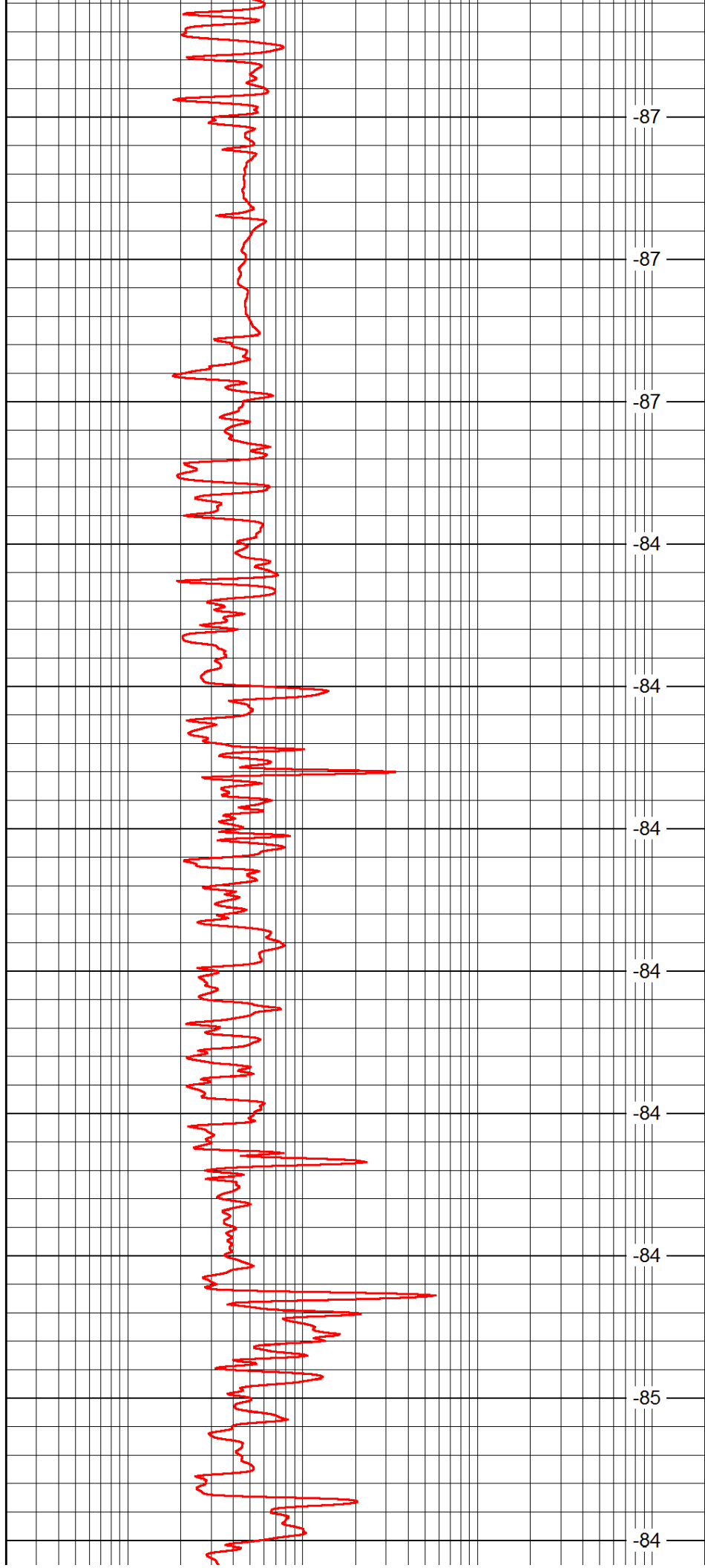
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2850

2900



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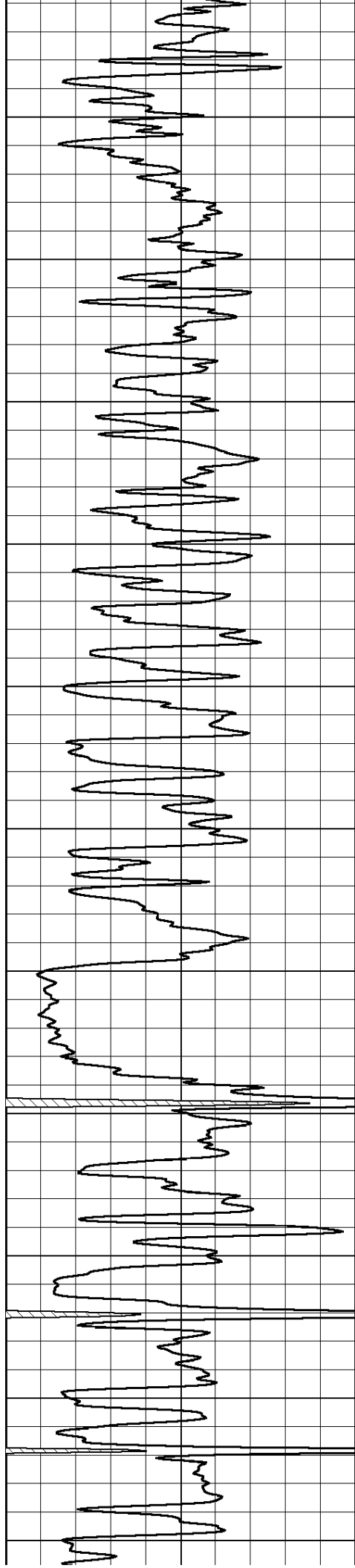
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2950

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3050

3100

3150

3200

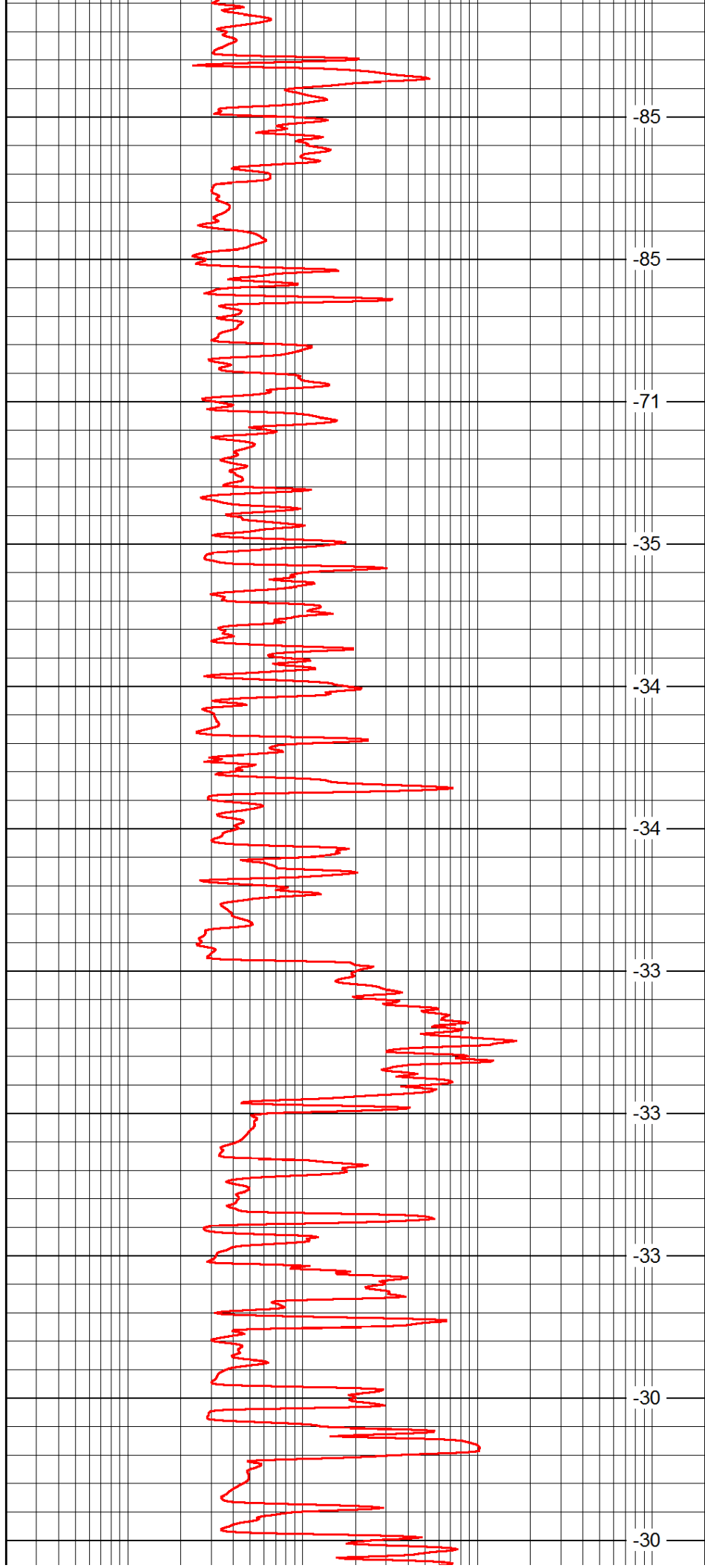
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3400

3450



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-34

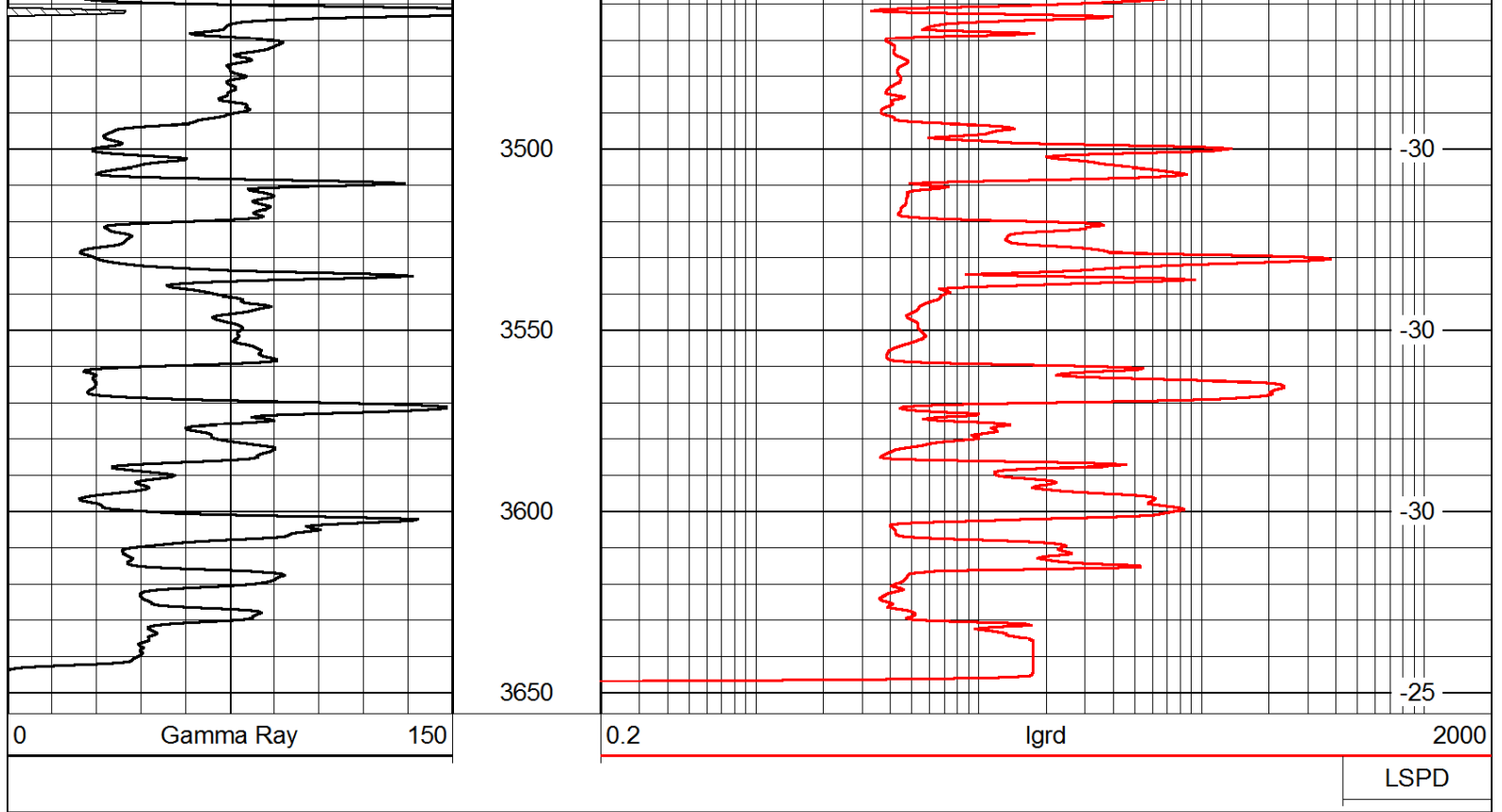
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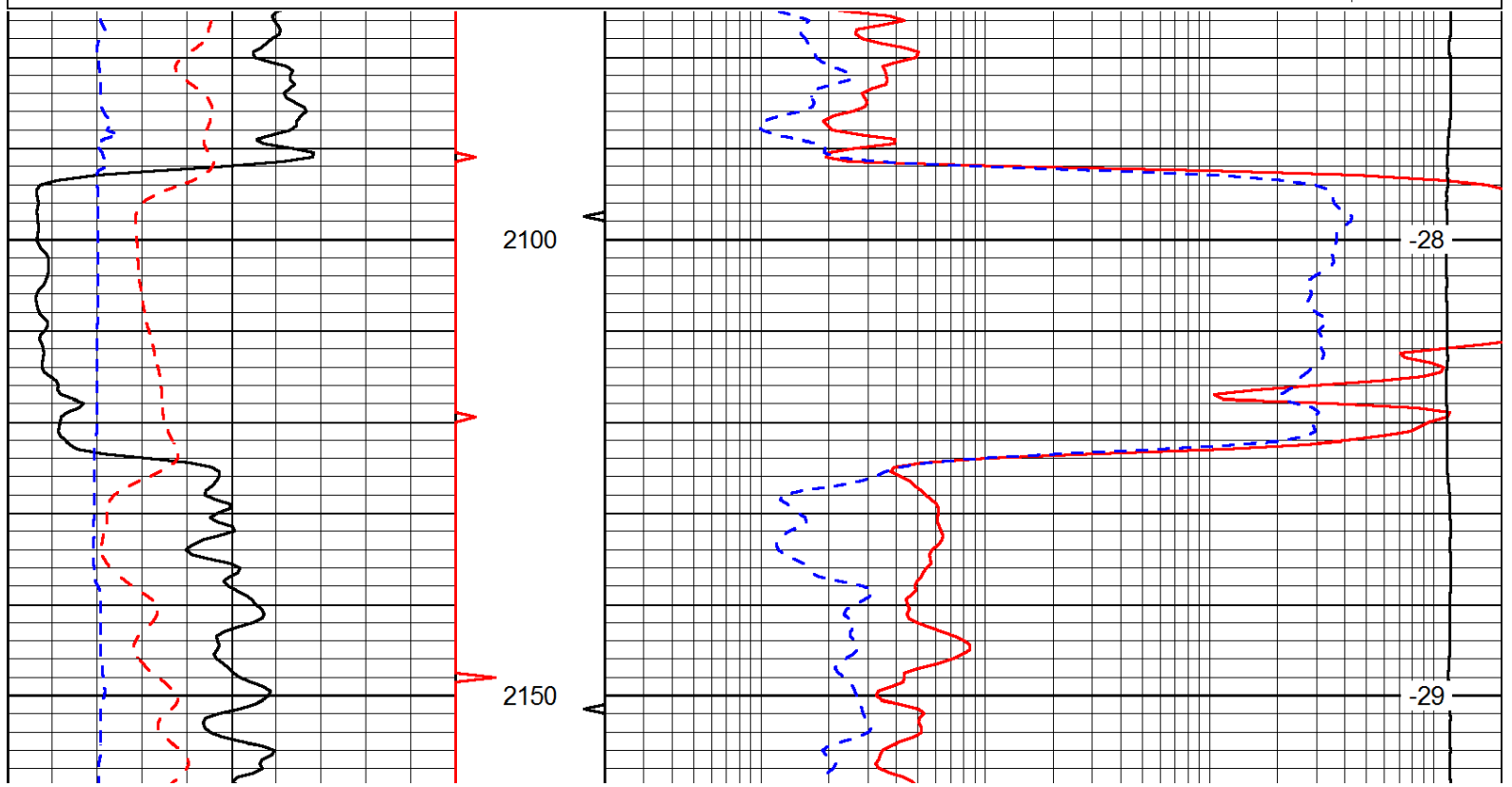
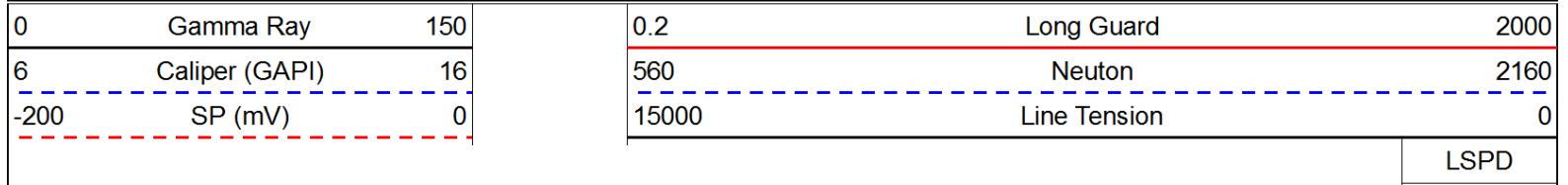
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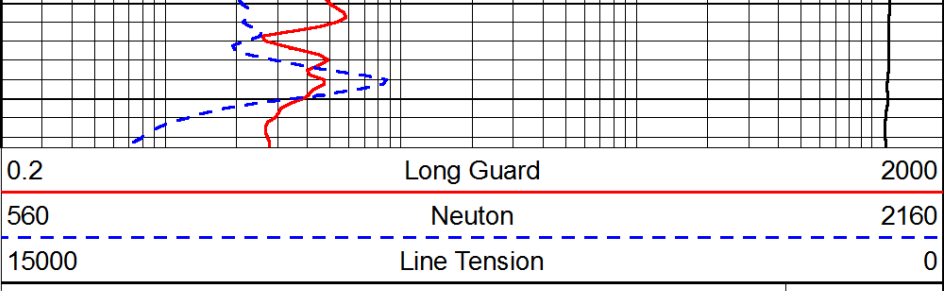
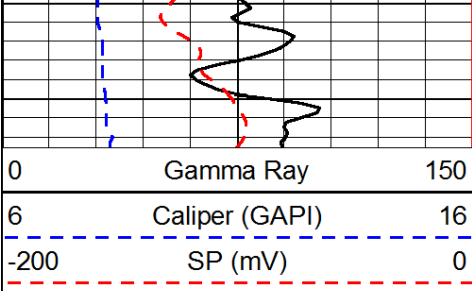
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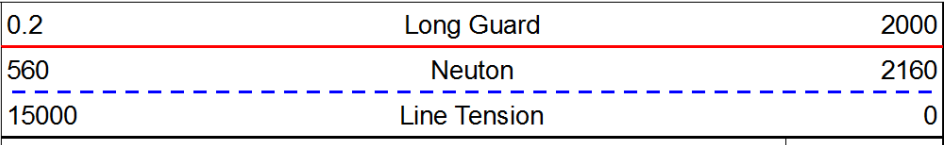
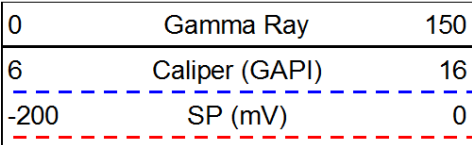
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LSPD

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LSPD

