



RADIATION GUARD LOG

Pioneer Energy Services

Company COBALT ENERGY, LLC.	
Well	GOOD EARTH RANCH "A" NO. 1-36
Field	OPPY SOUTH
County	HODGEMAN
State	KANSAS
Company COBALT ENERGY, LLC.	
Well	GOOD EARTH RANCH "A" NO. 1-36
Field	OPPY SOUTH
County	HODGEMAN
State	KANSAS
Location:	API #: 15-083-21,917-00-00
335' FSL & 2,305' FWL	
Permanent Datum	GROUND LEVEL
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING
SEC 36	TWP 22S
RGE 23W	
NONE	
Other Services	
Elevation	
K.B. 2214'	
D.F. N/A	
G.L. 2209'	
Date	9/21/15
Run Number	ONE
Depth Driller	4459'
Depth Logger	4456'
Bottom Logged Interval	4455'
Top Log Interval	200'
Casing Driller	8.625" @ 217'
Casing Logger	216'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	6300
Density / Viscosity	9.3 65
pH / Fluid Loss	9.0 10.8
Source of Sample	Flowline
Rm @ Meas. Temp	.48 @ 72
Rmt @ Meas. Temp	.36 @ 72
Rmc @ Meas. Temp	.65 @ 72
Source of Rmt / Rmc	Charts
Rm @ BHT	.29 @ 121
Operating Rig Time	2 1/2 HOURS
Max Rec. Temp. F	121
Equipment Number	108
Location	Hays
Recorded By	J. LONG
Witnessed By	ROBERT HENDRIX

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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.

JETMORE, 5 EAST TO 224 ROAD, 1/2 SOUTH TO M ROAD, 1/2 WEST, NORTH INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

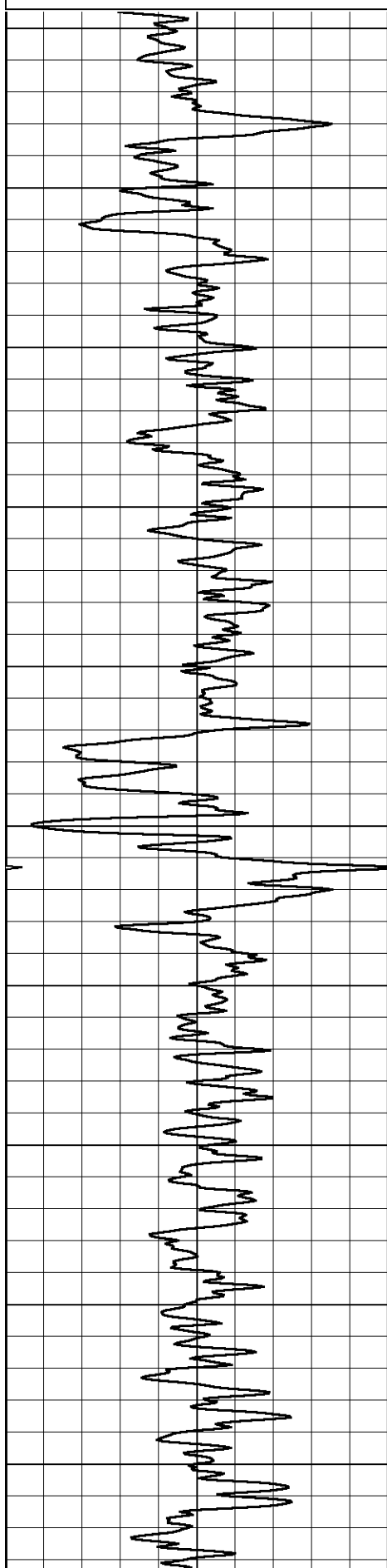
Engineer: J. LONG
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

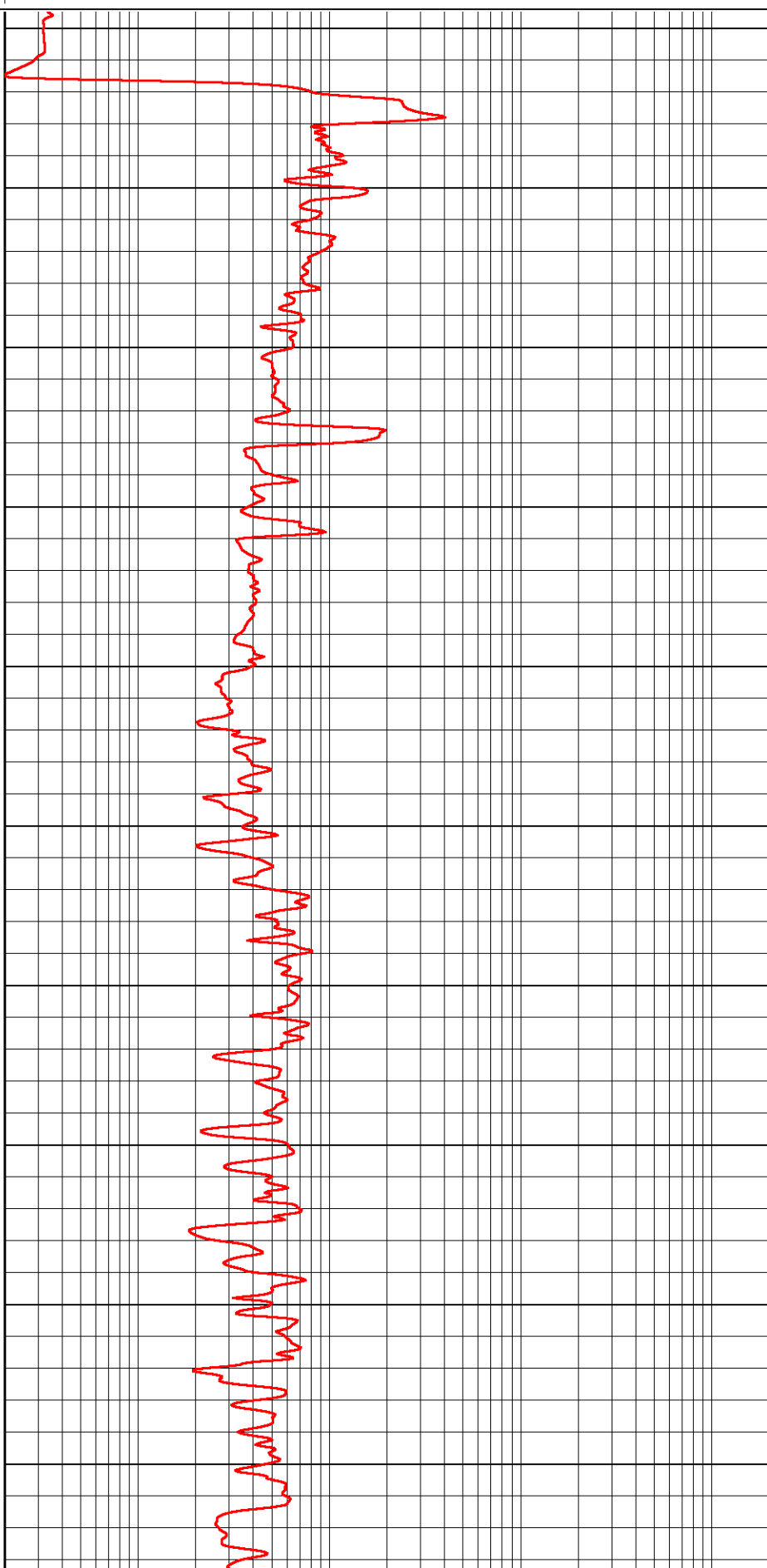
Primary Witness: ROBERT HENDRIX
Secondary Witness:
Secondary Witness:
Secondary Witness:

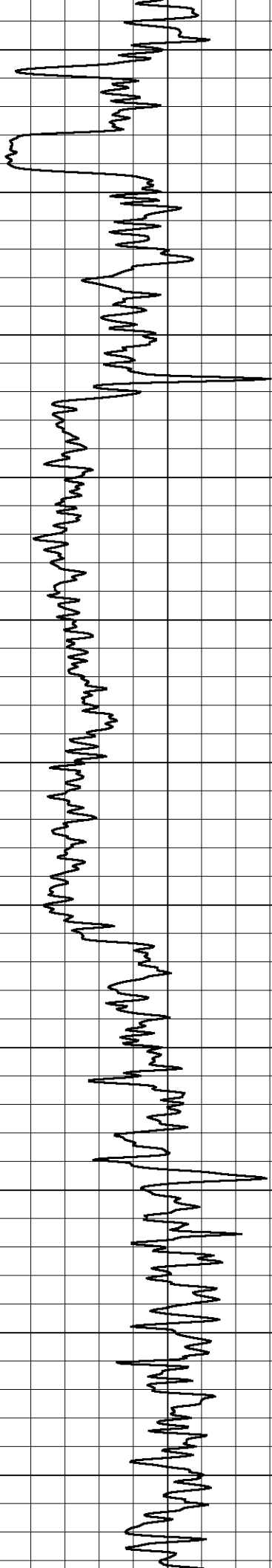
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Dataset Pathname rag/cobrag
Presentation Format rag2in
Dataset Creation Mon Sep 21 15:05:02 2015
Charted by Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150



0.2 lgnd (Ohm-m) 2000





700

750

800

850

900

950

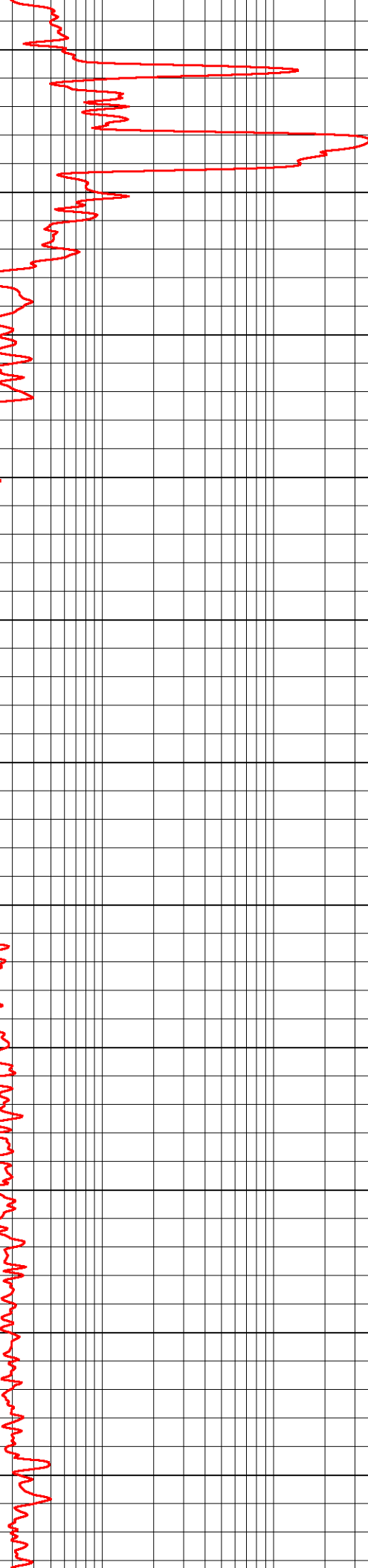
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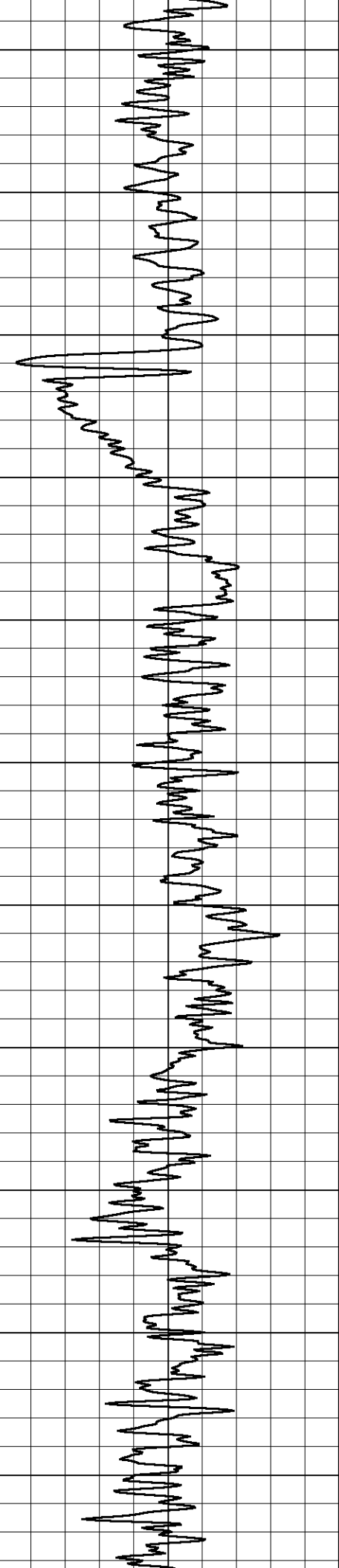
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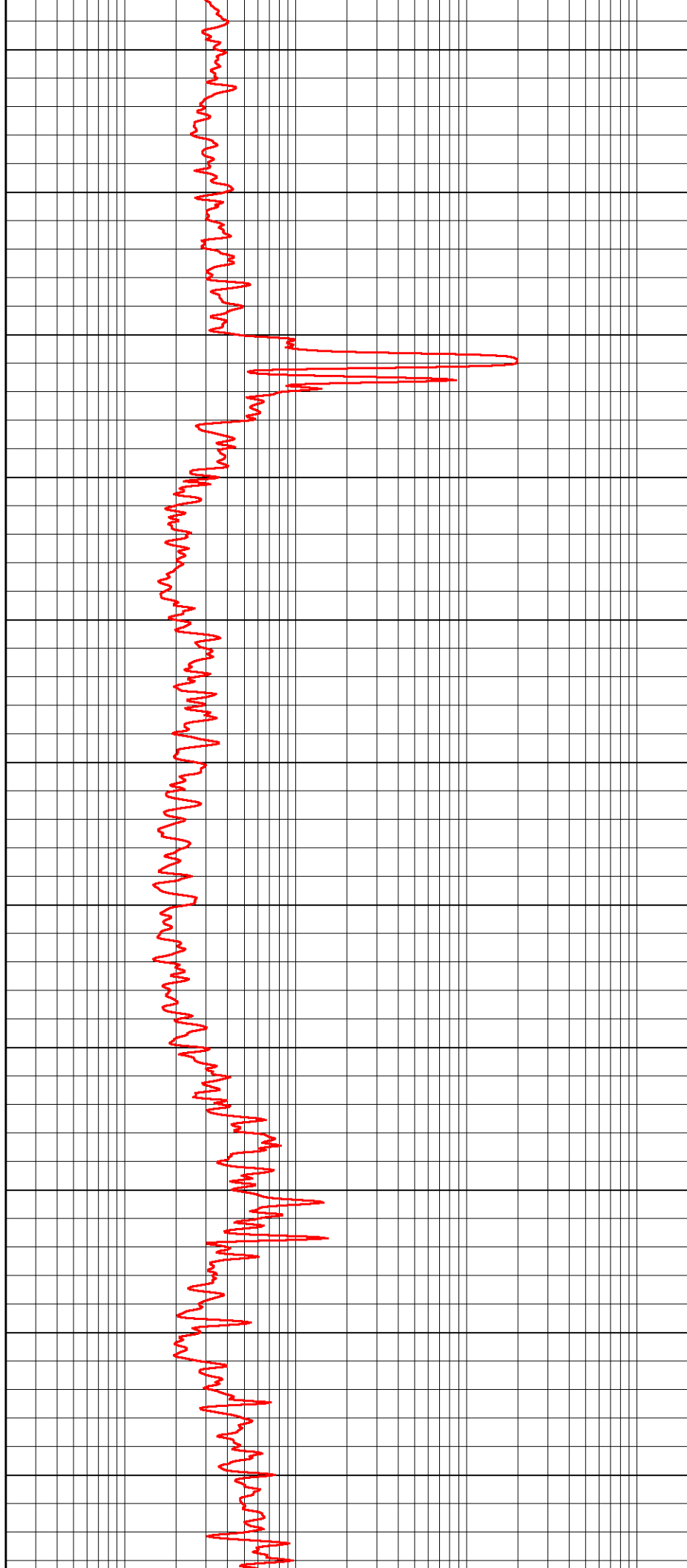
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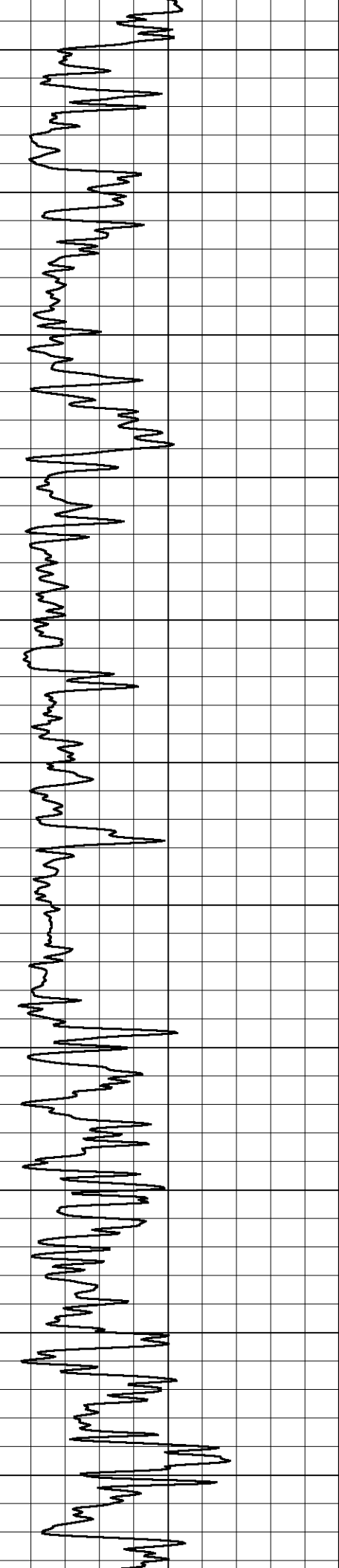
1200





1250
1300
1350
1400
1450
1500
1550
1600
1650
1700
1750





1800

1850

1900

1950

2000

2050

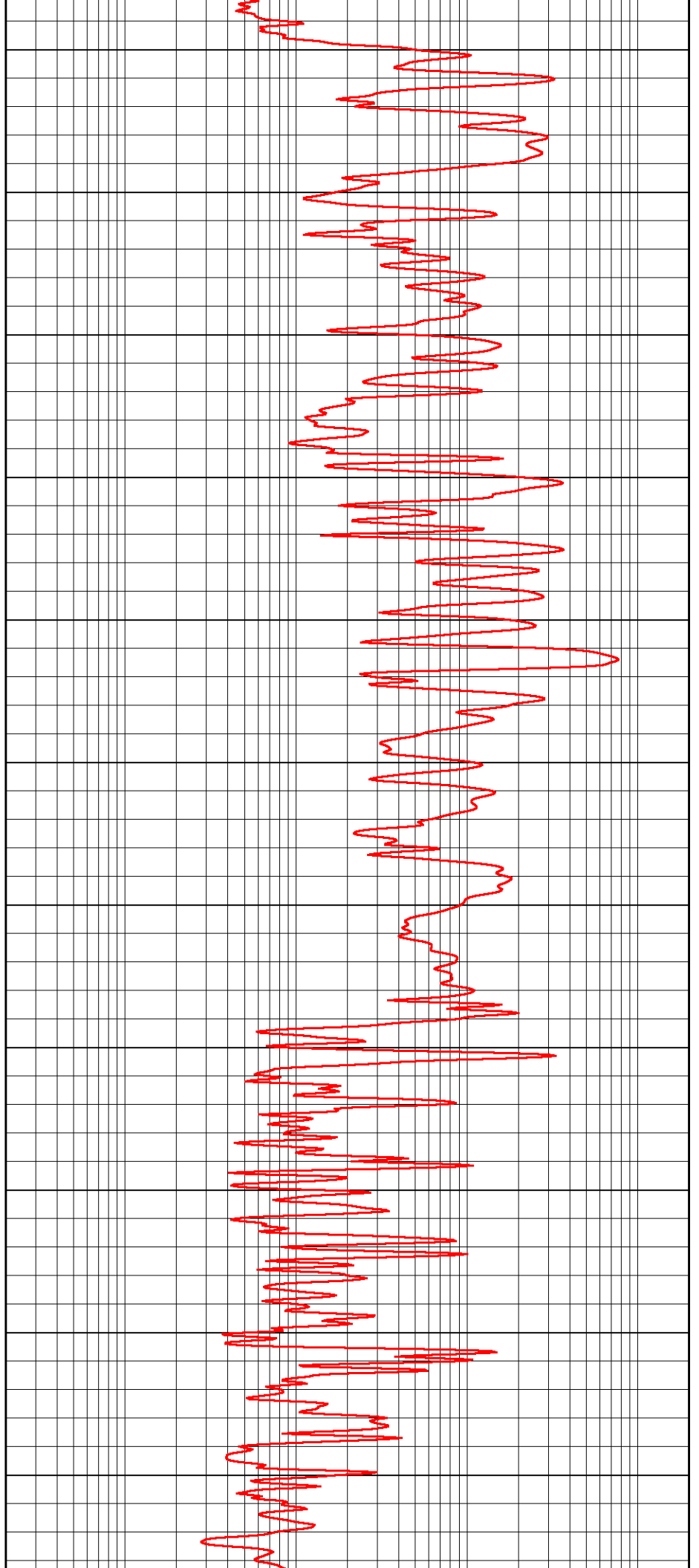
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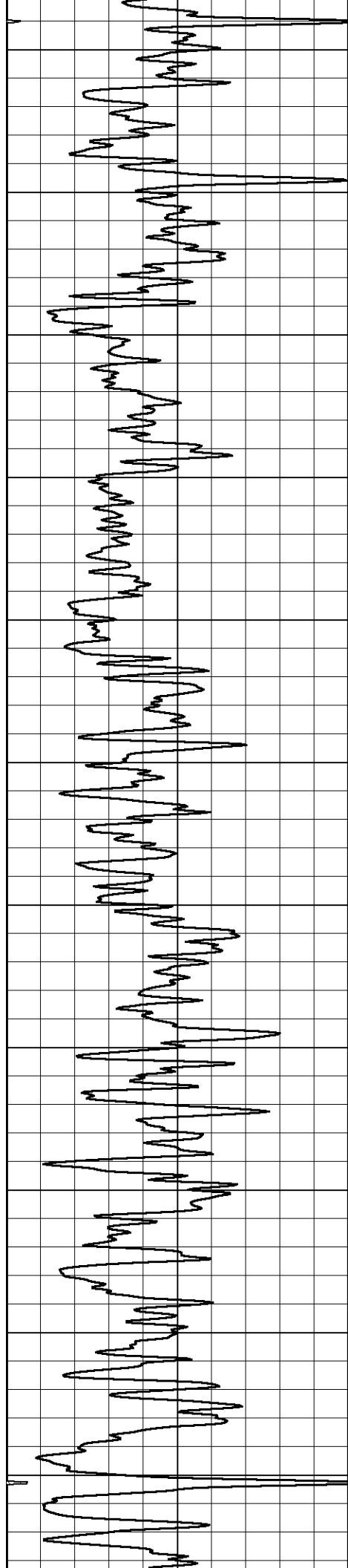
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2200

2250

2300





2350

2400

2450

2500

2550

2600

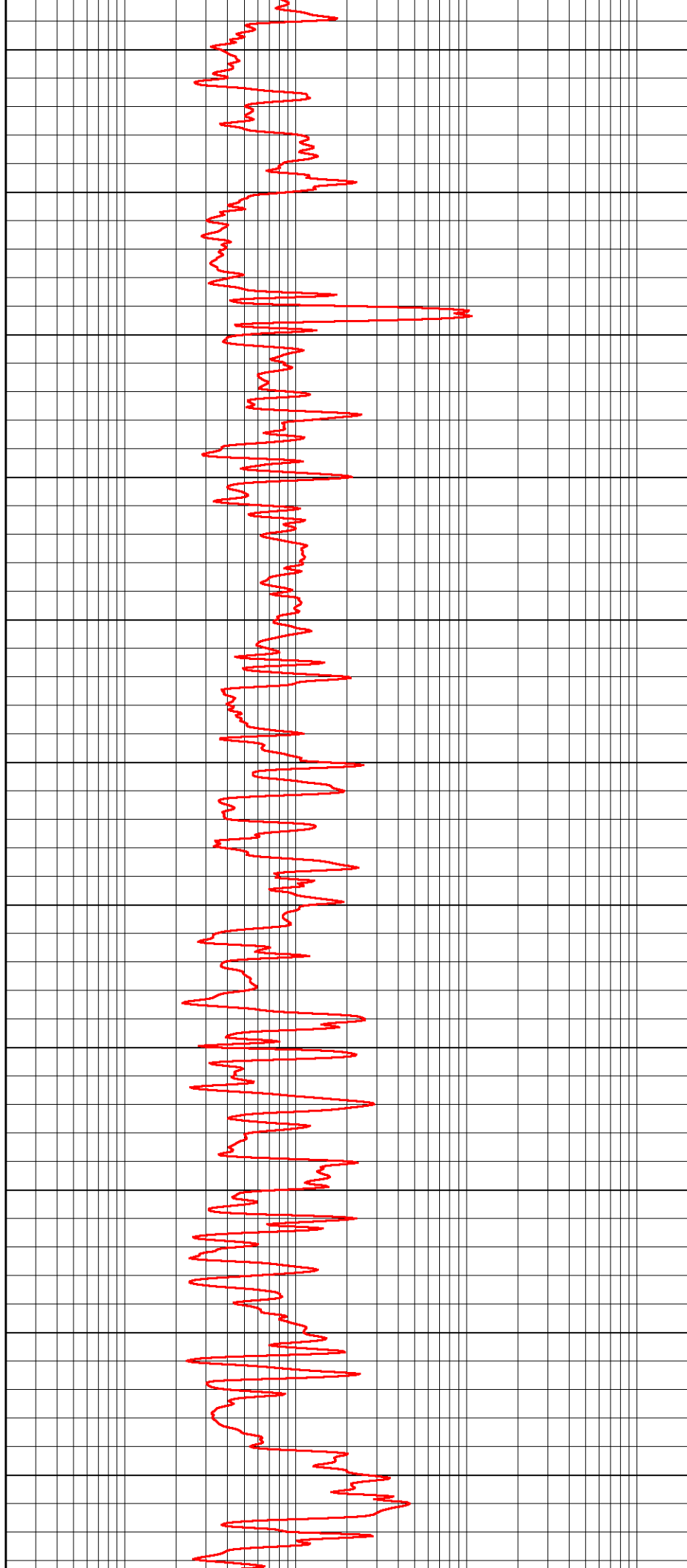
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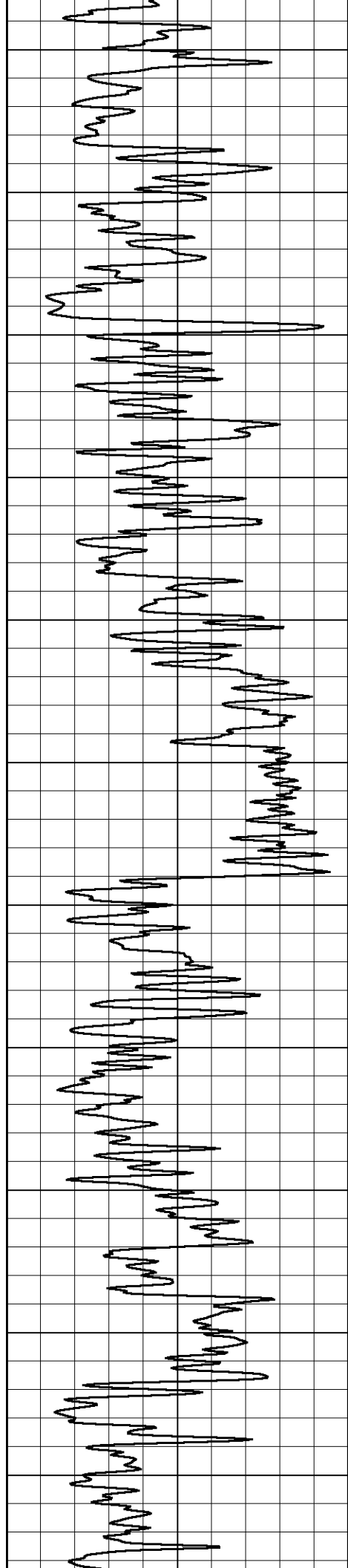
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2750

2800

2850





2900

2950

3000

3050

3100

3150

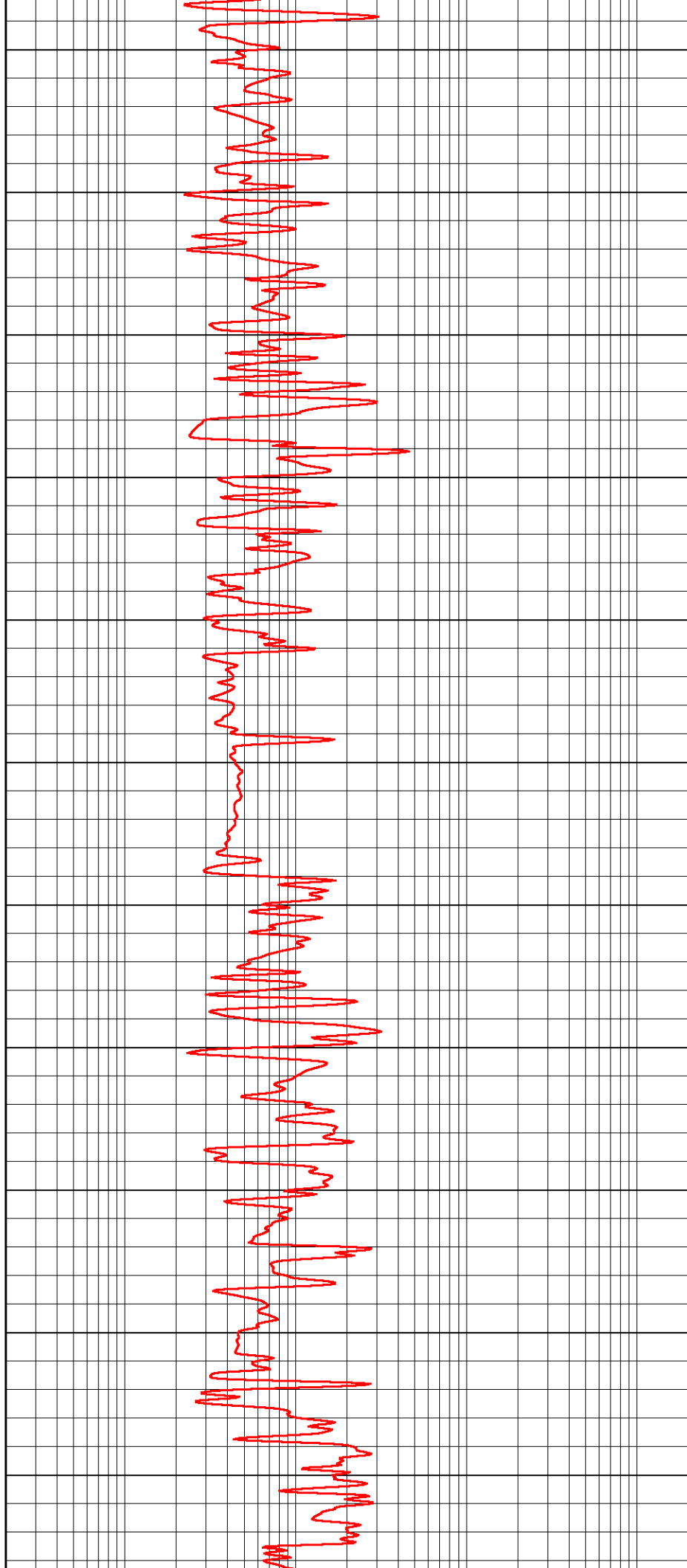
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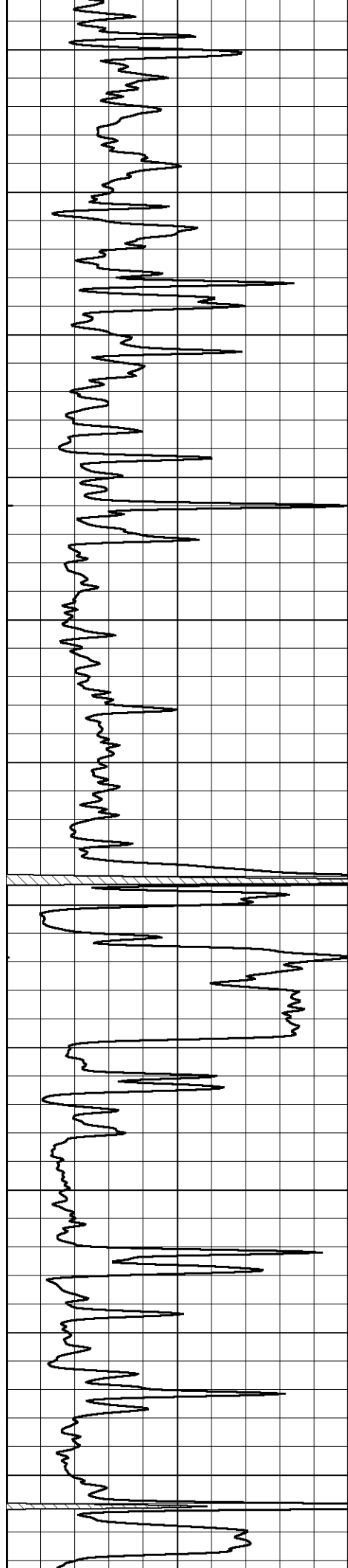
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3300

3350

3400





3450

3500

3550

3600

3650

3700

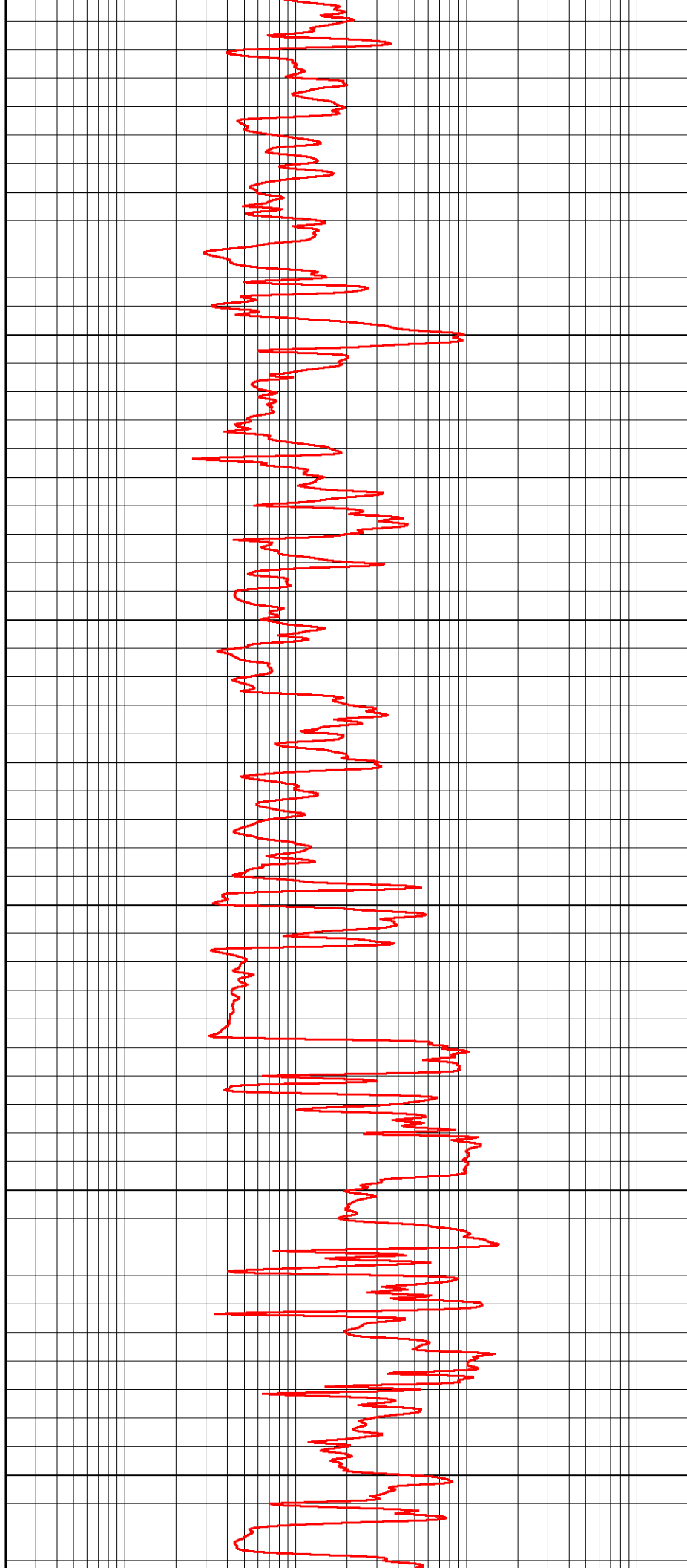
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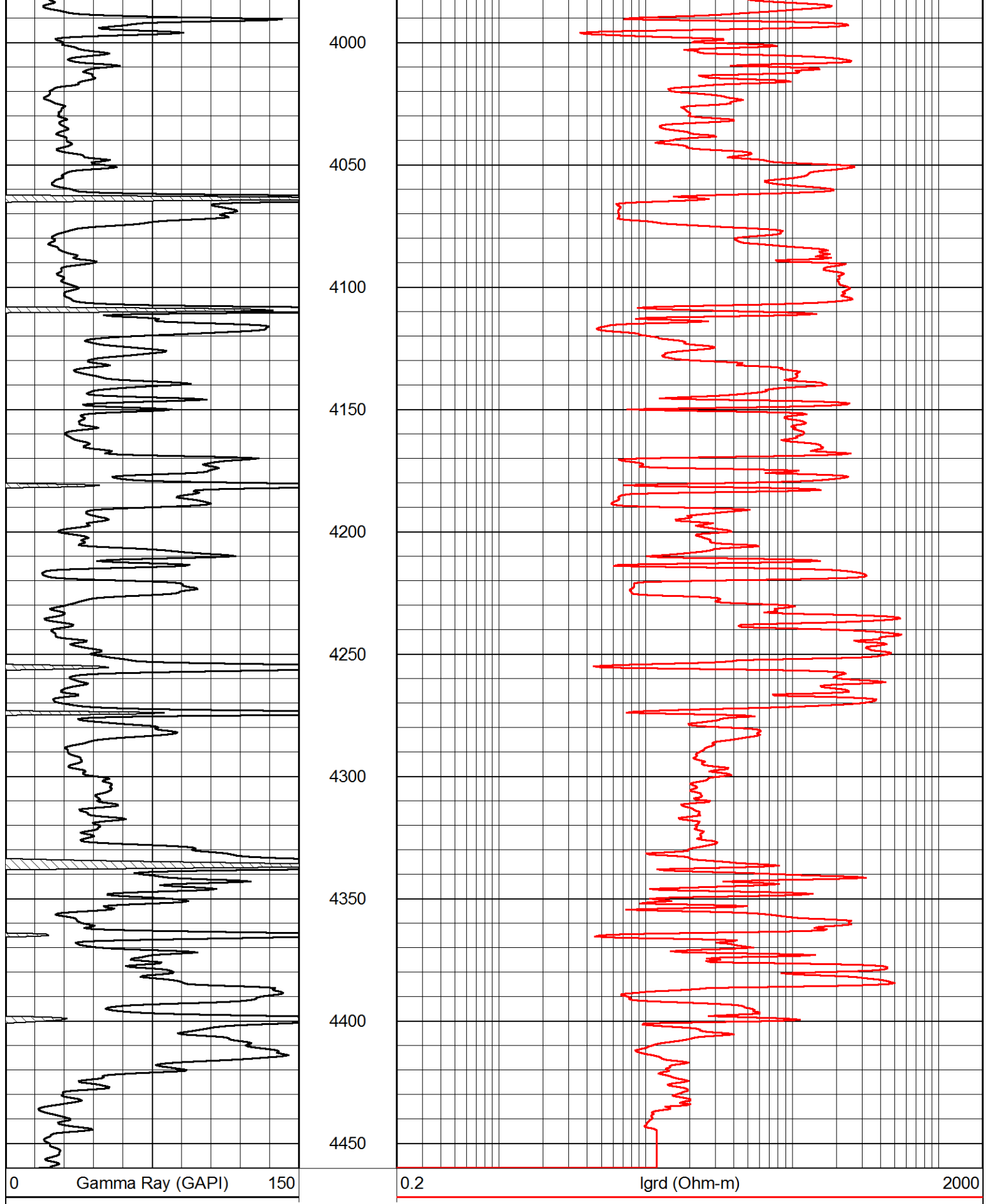
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3850

3900

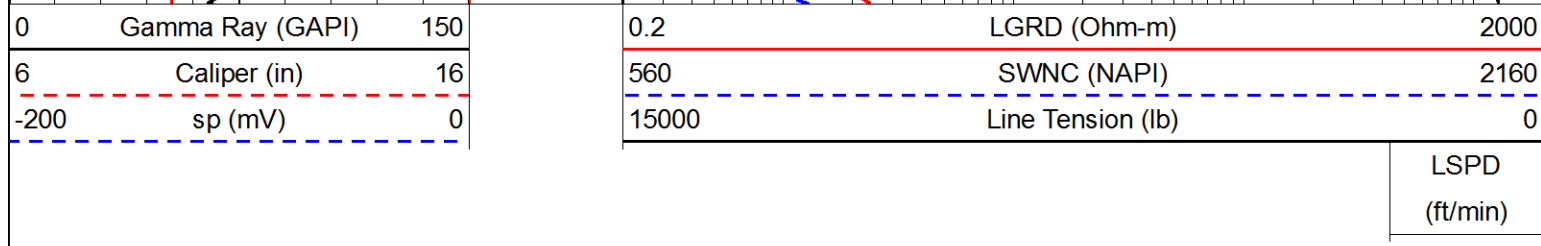
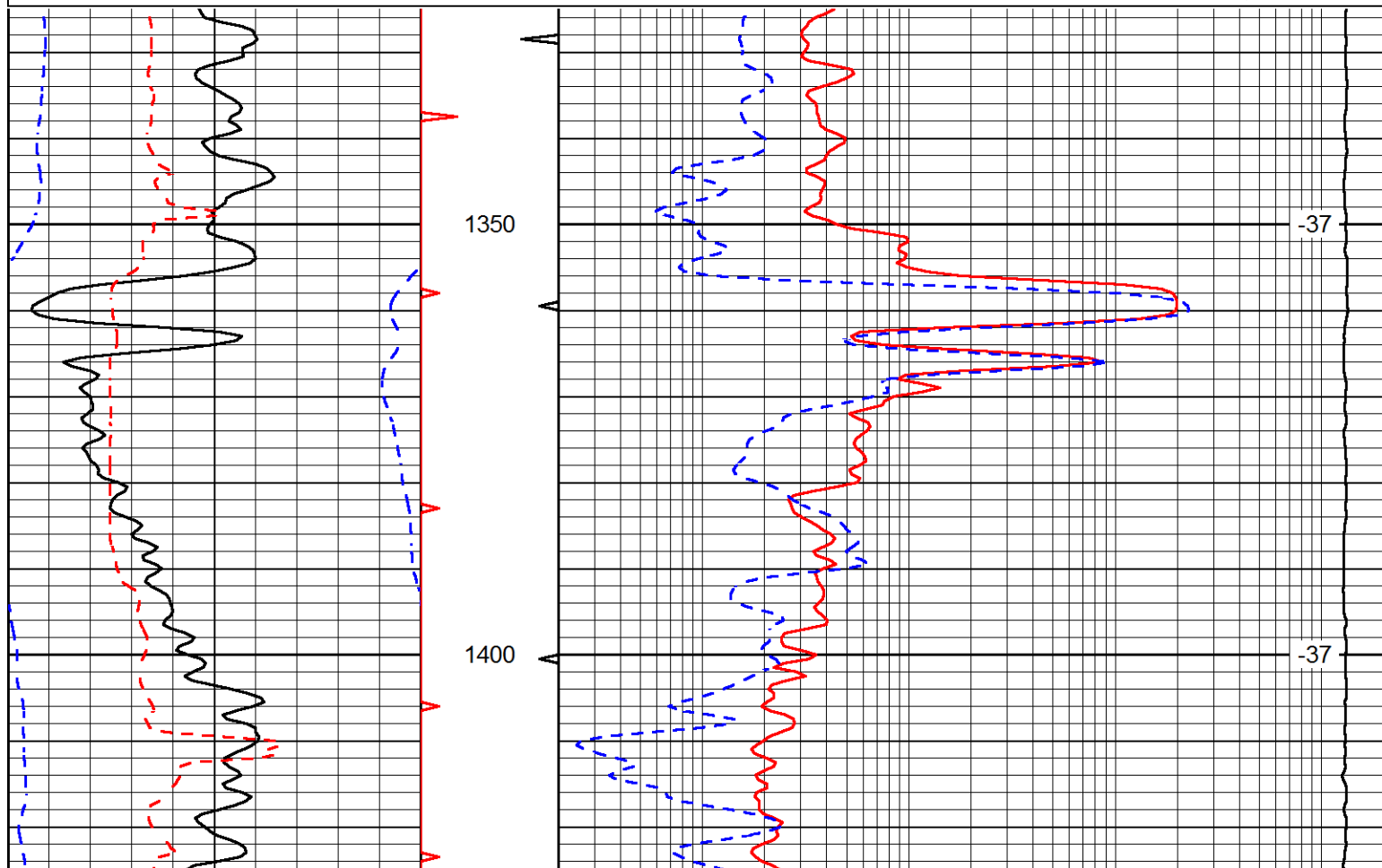
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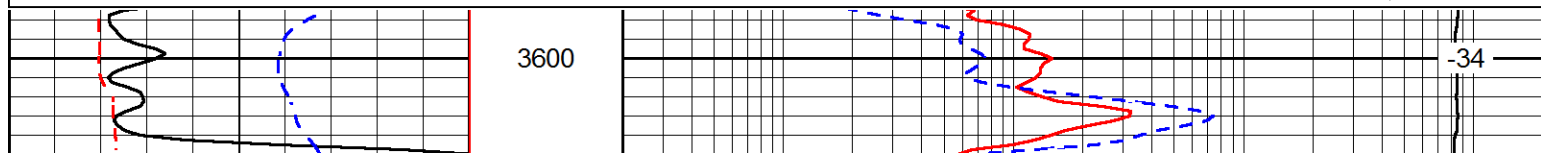
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Presentation Format	rag
Dataset Creation	Mon Sep 21 15:05:02 2015
Charted by	Depth in Feet scaled 1:240

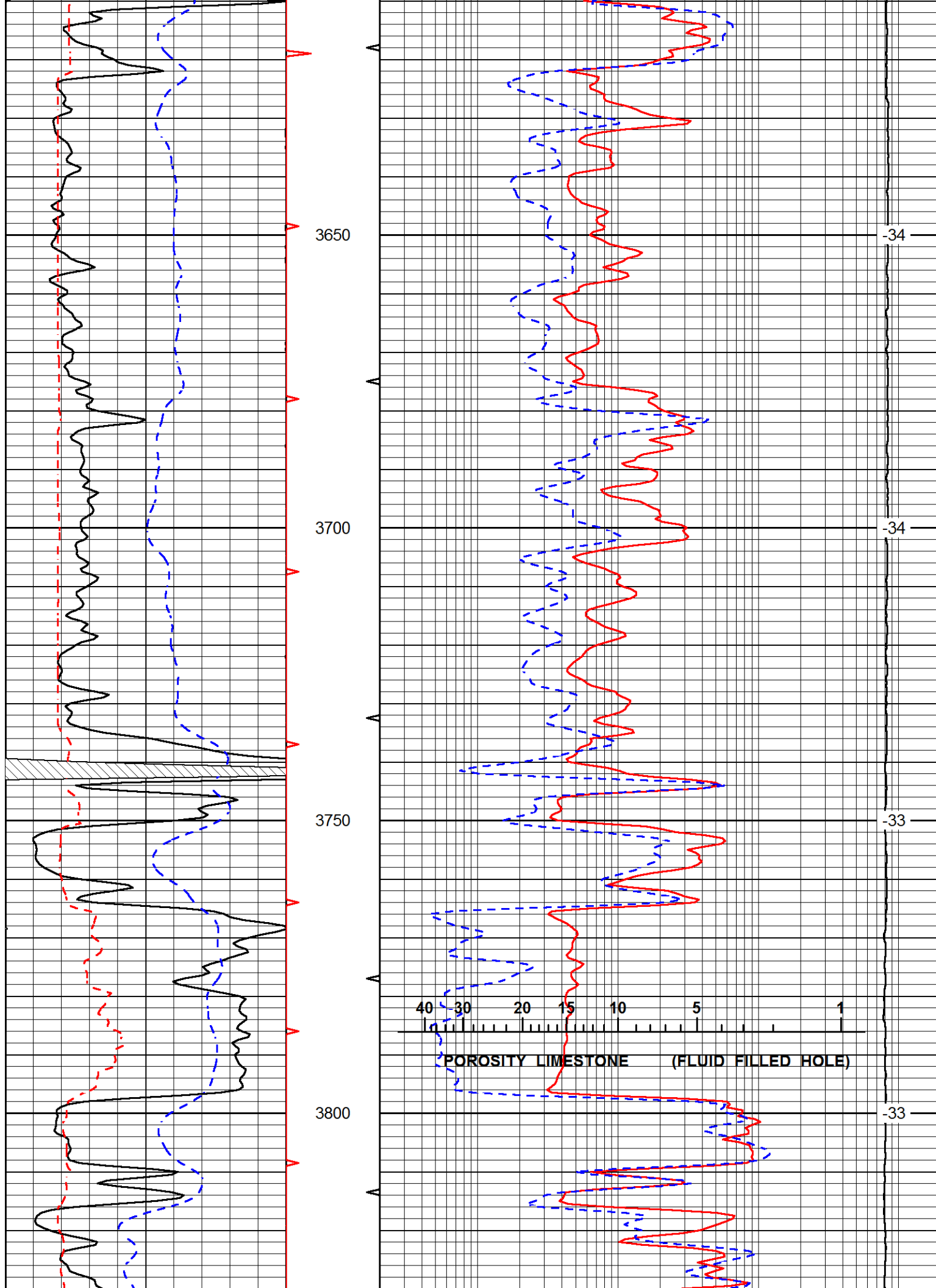
0	Gamma Ray (GAPI)	150	0.2	LGRD (Ohm-m)	2000
6	Caliper (in)	16	560	SWNC (NAPI)	2160
-200	sp (mV)	0	15000	Line Tension (lb)	0
					LSPD (ft/min)

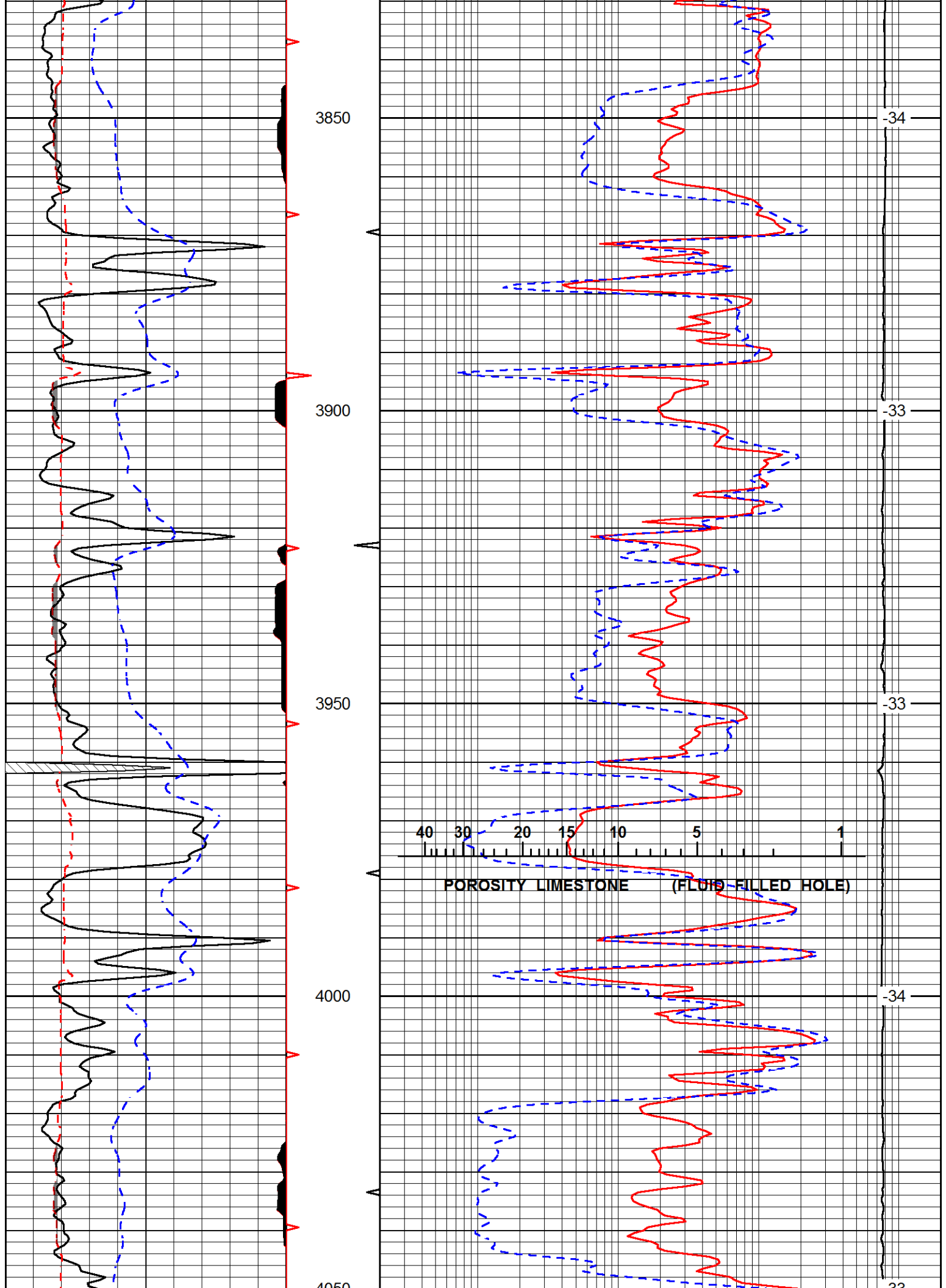


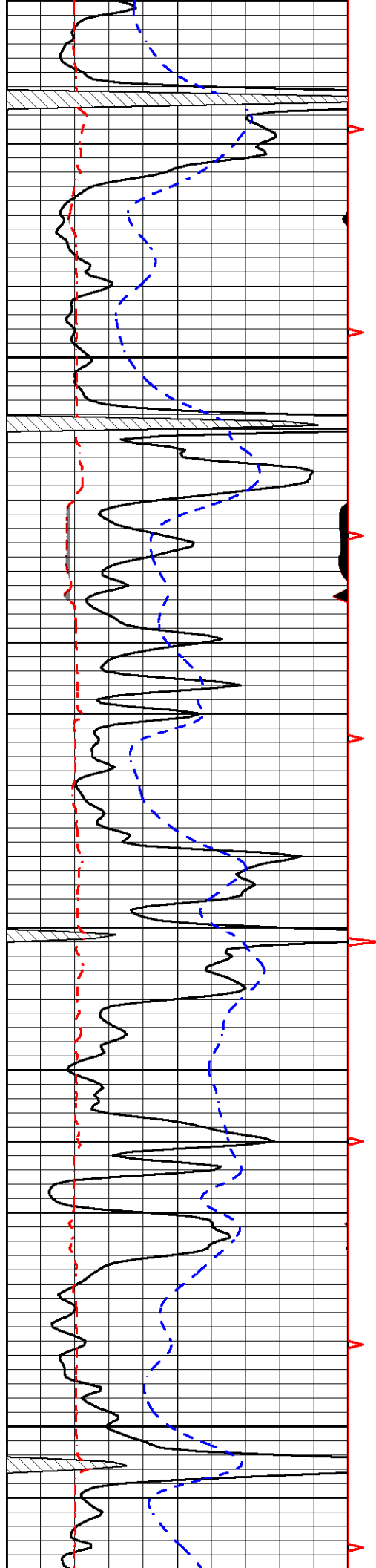
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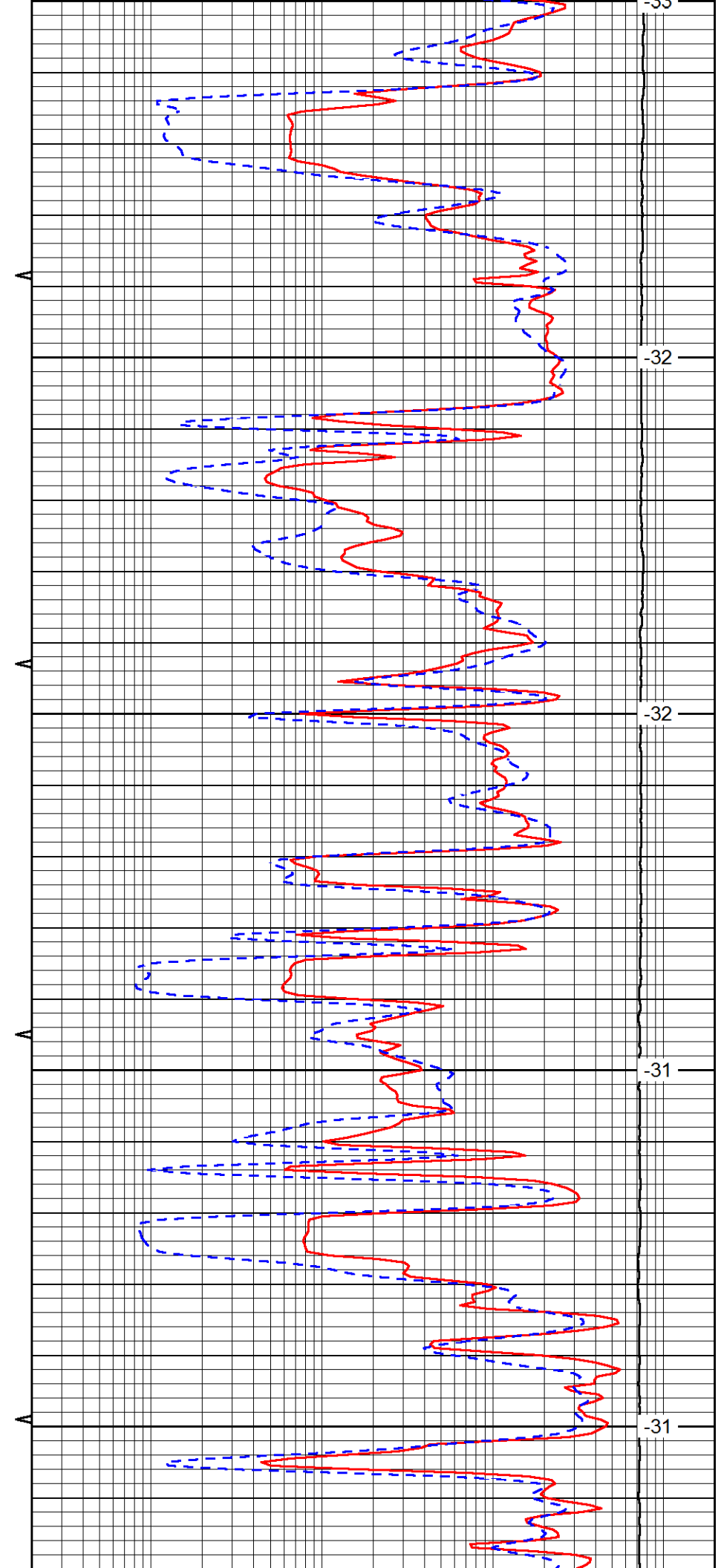








4050
4100
4150
4200
4250



-33
-32
-32
-31
-31

