



Pioneer Energy Services

Microresistivity Log

API No.	Company Hamby Oil, LLC Well Gehrke # 5 Field Lost Springs County Dickinson State Kansas		
15-041-20,139-00-00	Location NE-SW-NE-NE 749' FNL & 818' FEL	Other Services CNL/CDL DIL	
	Sec: 35 Twp: 16S Rge: 4E	Elevation	
Permanent Datum	Ground Level	Elevation 1439	
Log Measured From	Ground Level	0 Ft. Above Perm. Datum	
Drilling Measured From	Ground Level	K.B. D.F. G.L. 1439	
Date	8/23/2014		
Run Number	Two		
Depth Driller	2890		
Depth Logger	2888		
Bottom Logged Interval	2887		
Top Log Interval	1200		
Casing Driller	8.625 @ 250		
Casing Logger	254		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	700		
Density / Viscosity	9.2 40		
pH / Fluid Loss	8.5 11.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	.53 @ 76		
Rmf @ Meas. Temp	.40 @ 76		
Rmc @ Meas. Temp	.72 @ 76		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.38 @ 105		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	106		
Equipment Number	10		
Location	Hays		
Recorded By	J. Henrickson		
Witnessed By	Seth Evenson		

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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.

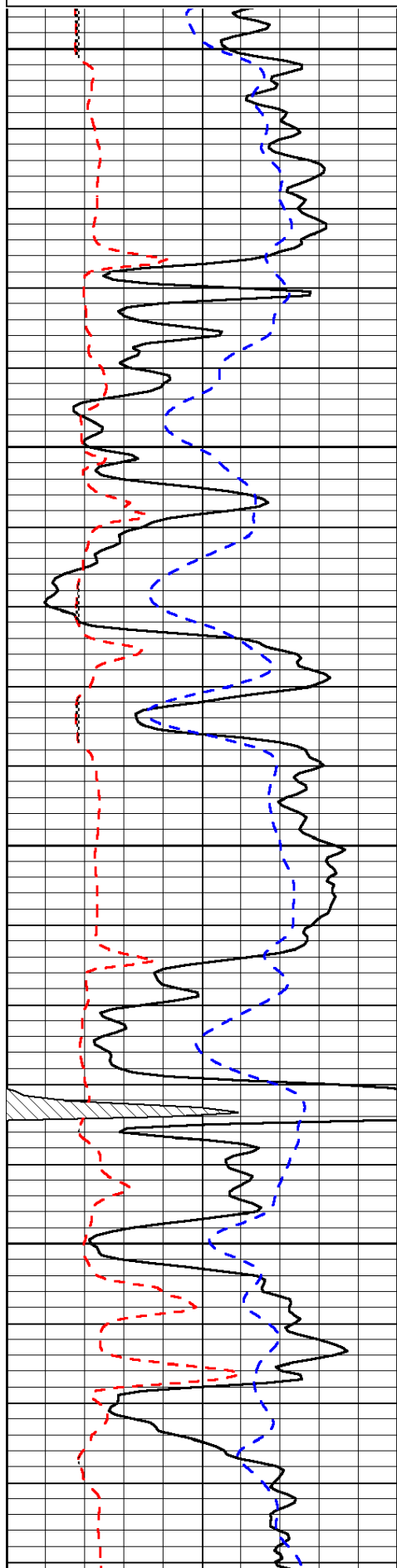
Comments

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

Herrington Kansas
2 1/2 South, West Into

Database File: c:\warrior\data\hamby oil_gehrke # 5\hamby_gehrke_5hd.db
Dataset Pathname: DIL\hamstk
Presentation Format: micro
Dataset Creation: Sat Aug 23 07:12:51 2014
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:210		
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

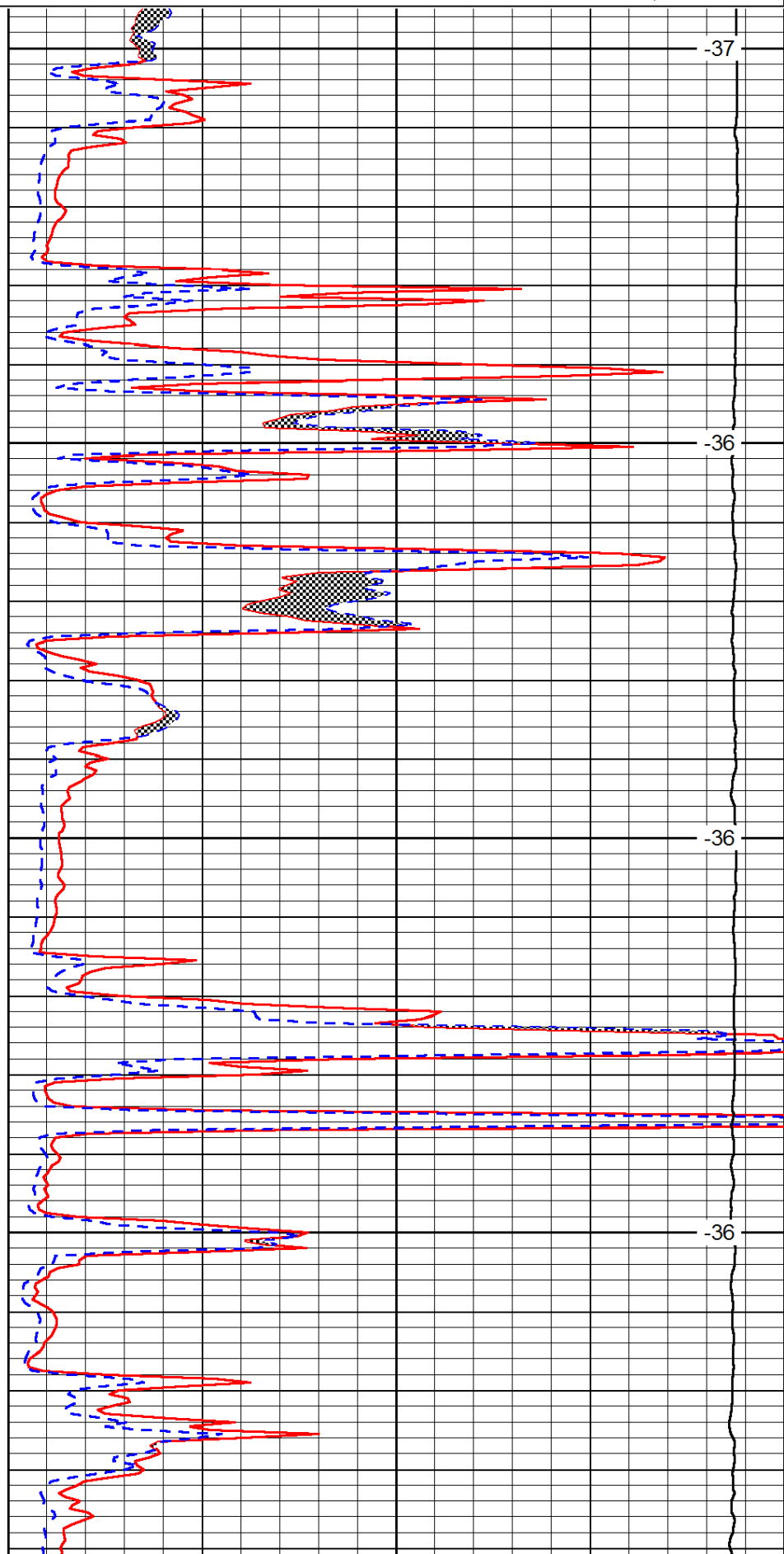


1200

1250

1300

1350



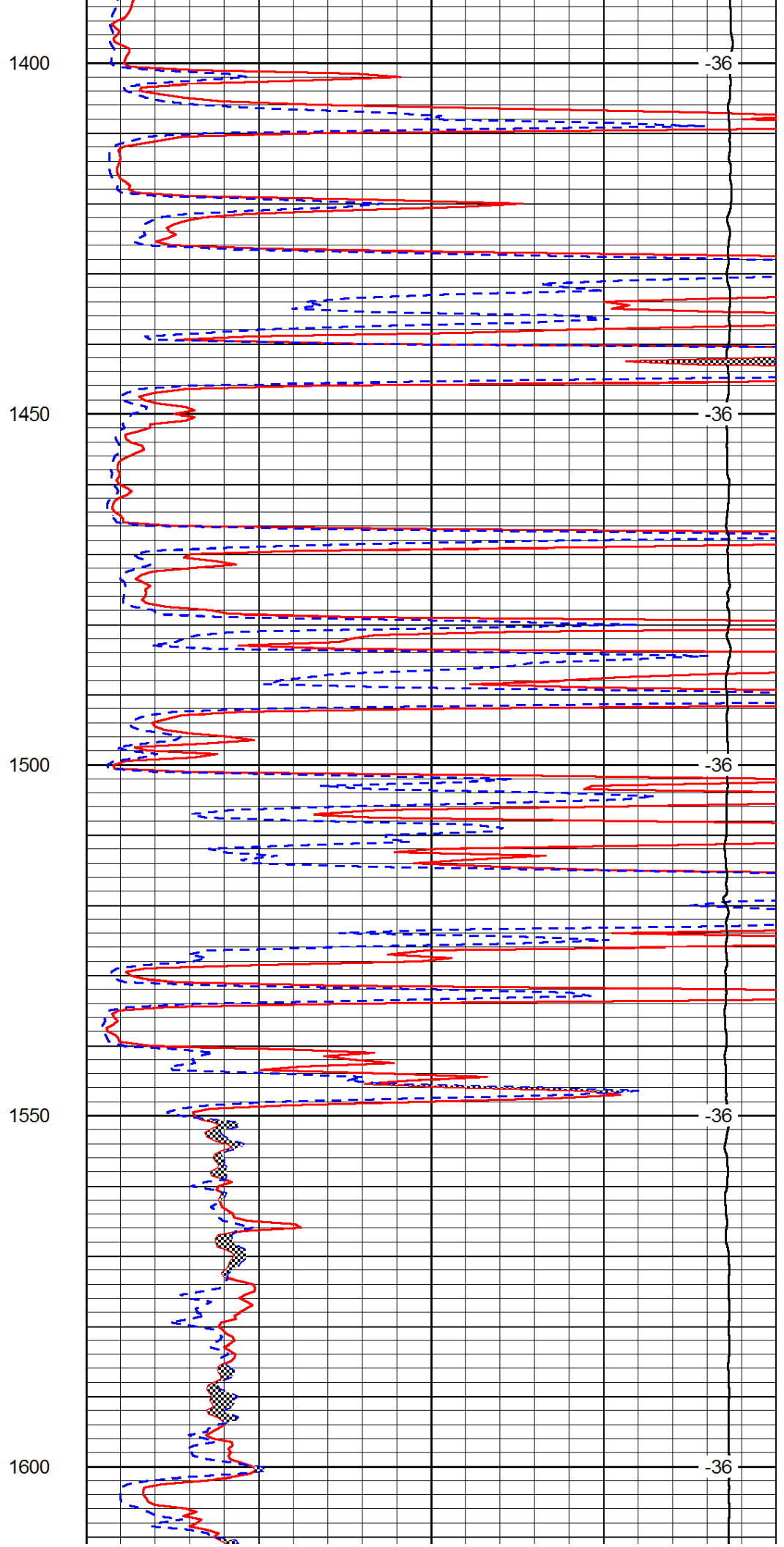
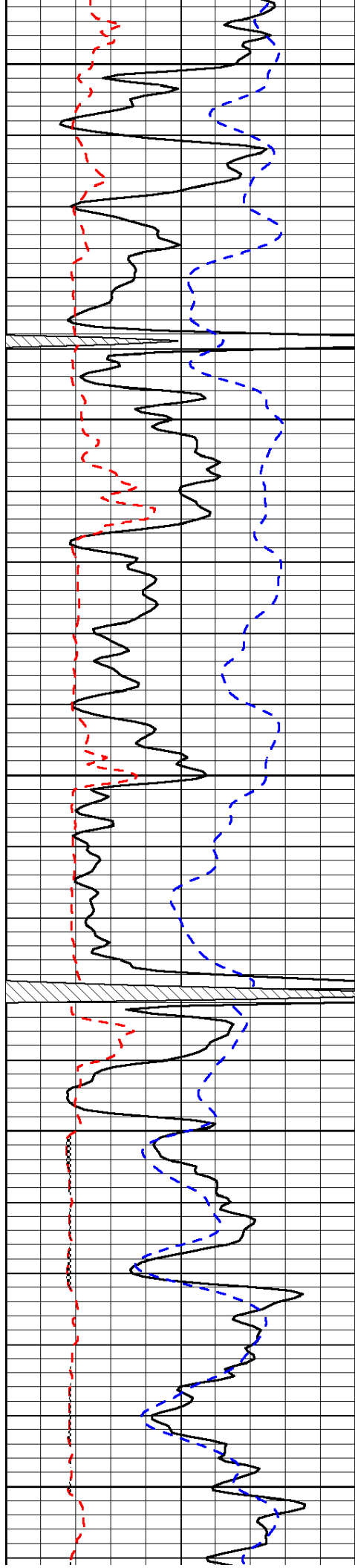
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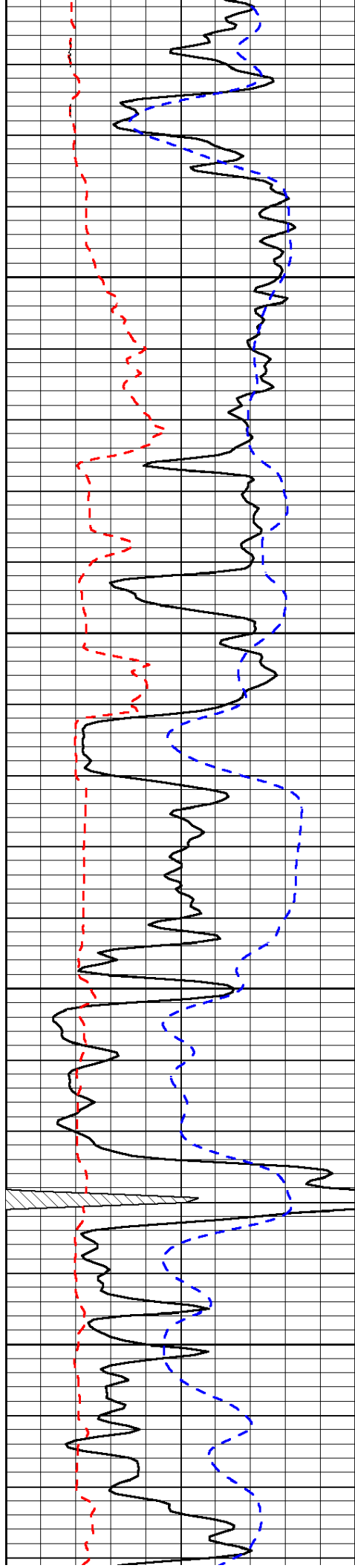
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LSPD



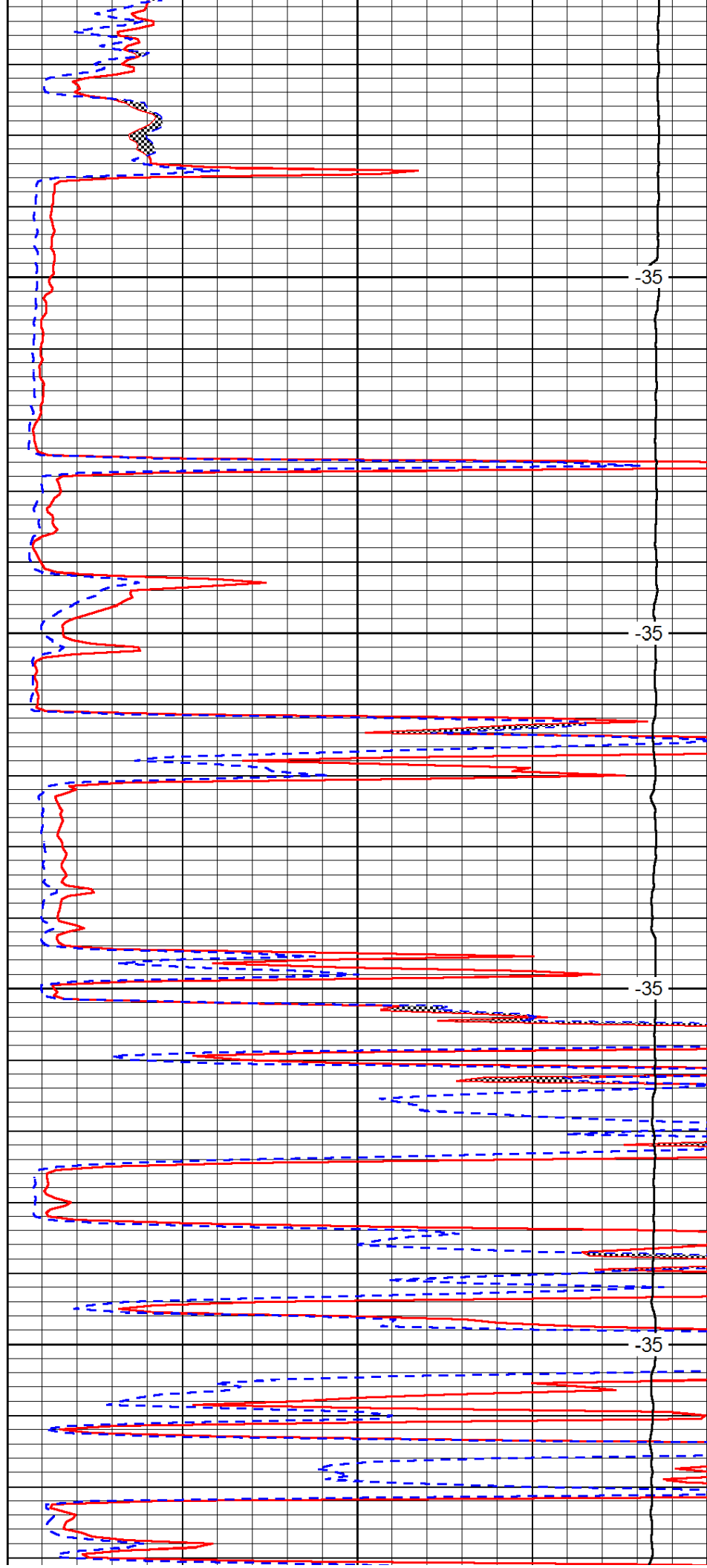


1650

1700

1750

1800

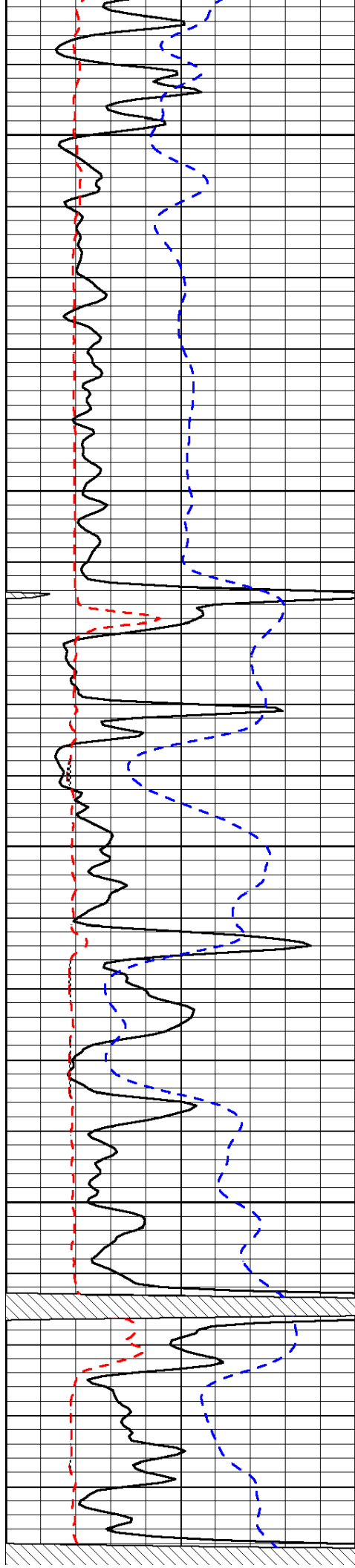


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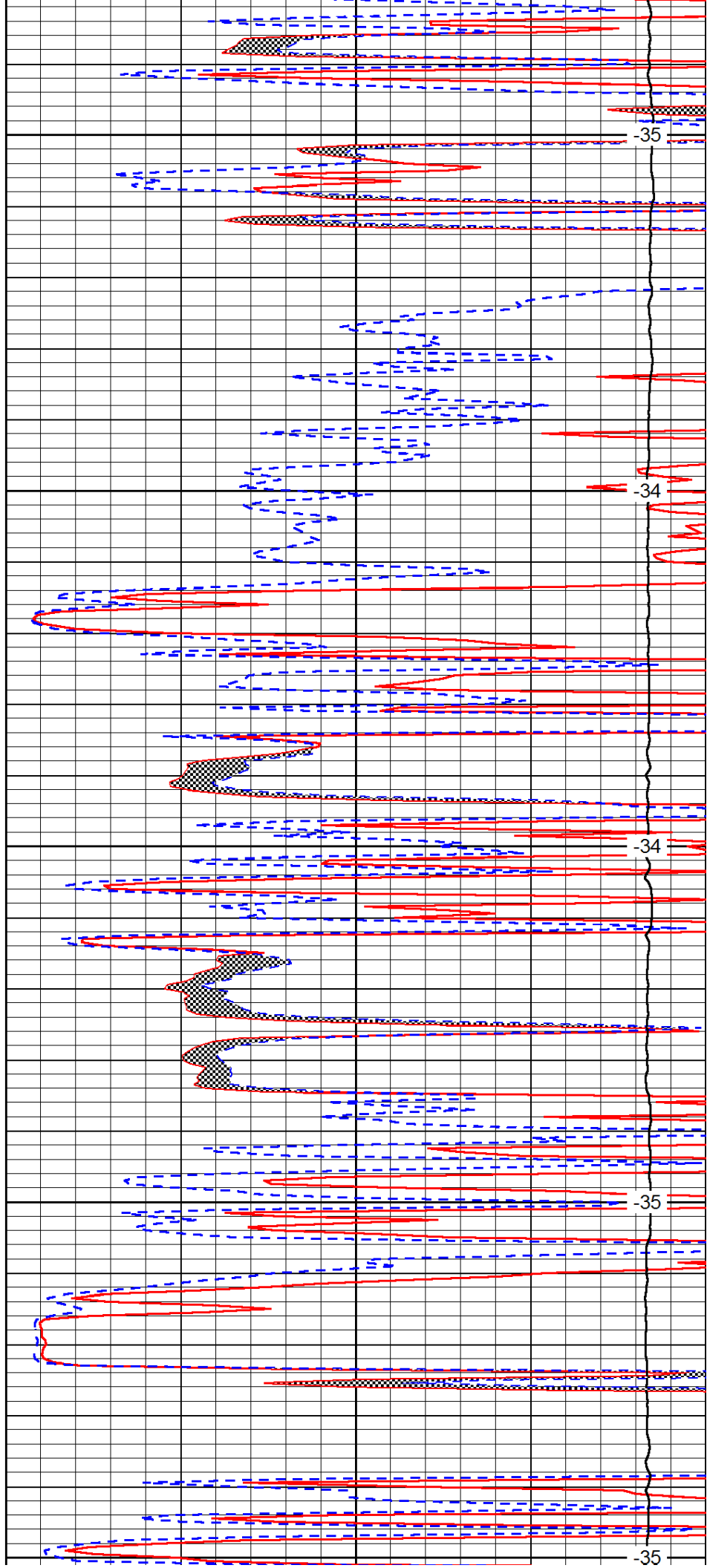
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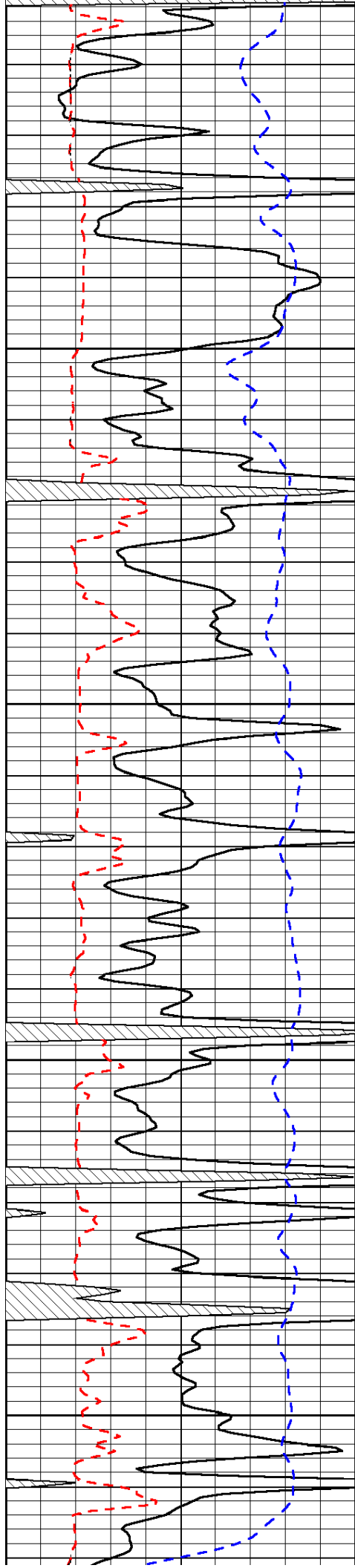
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2000

2050



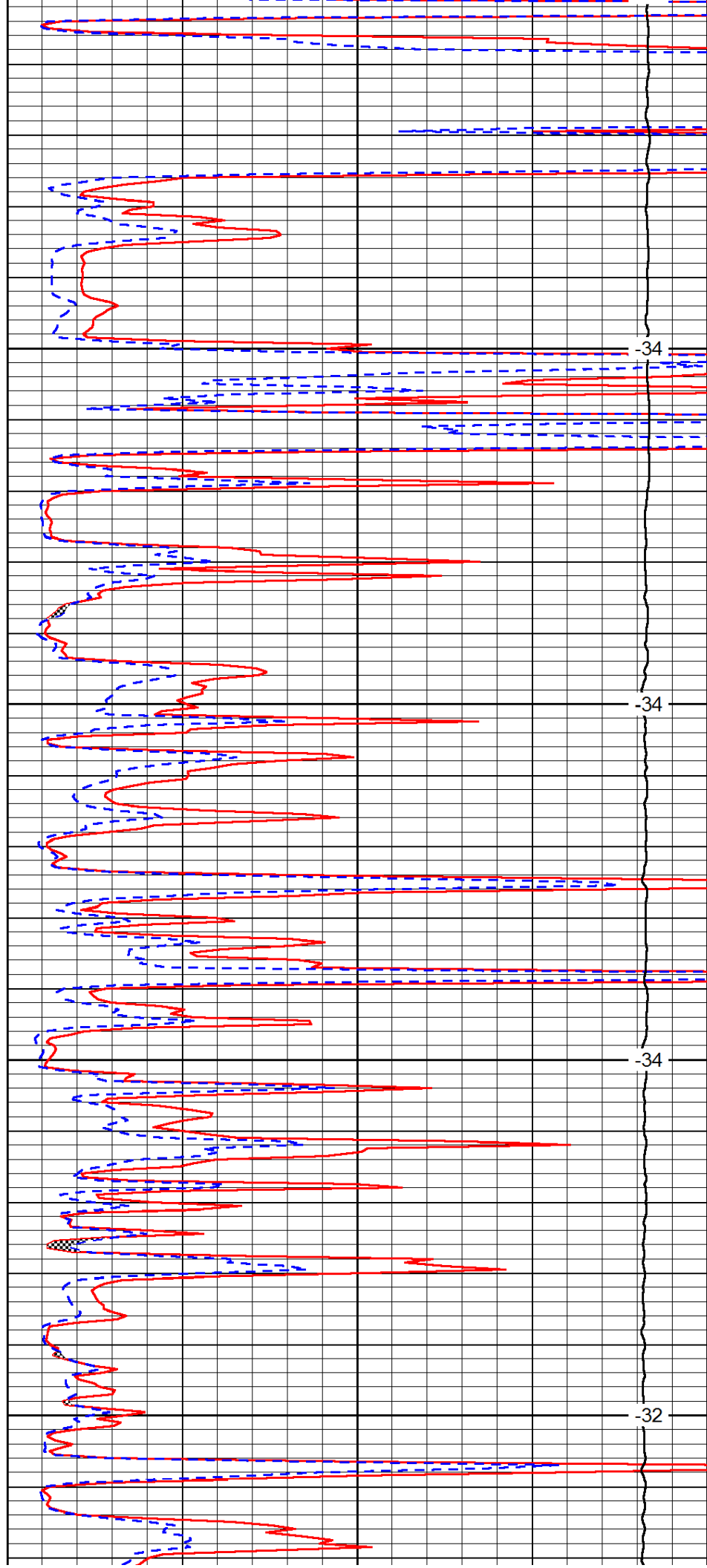


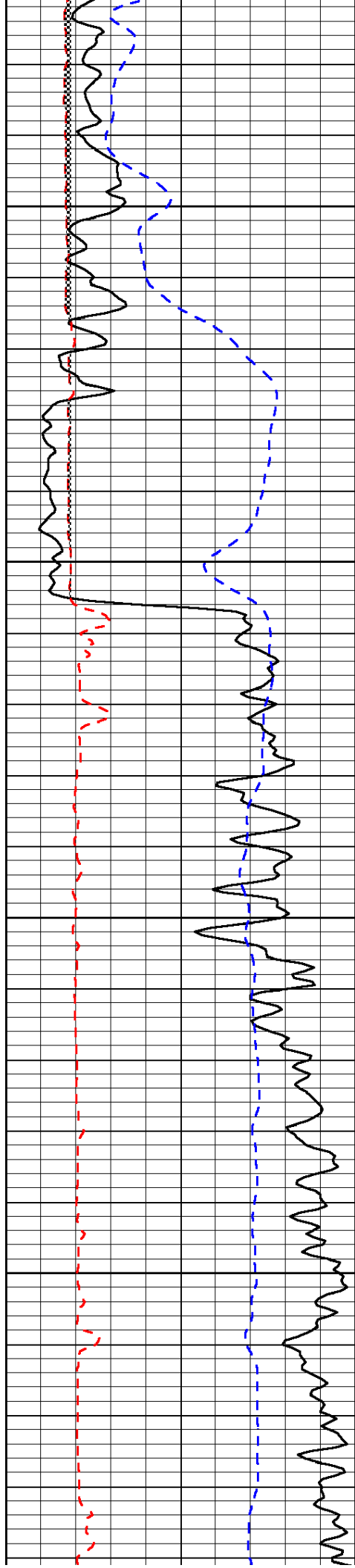
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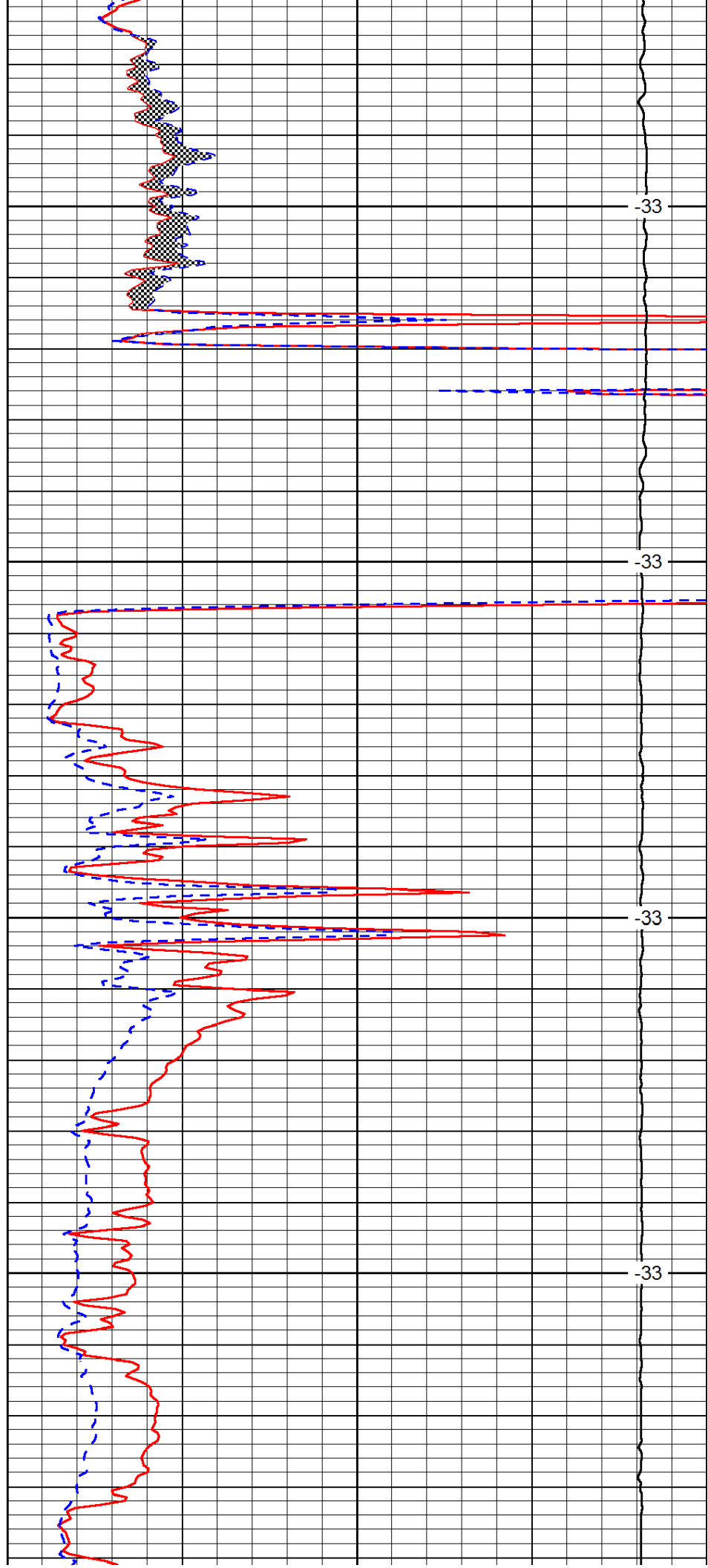


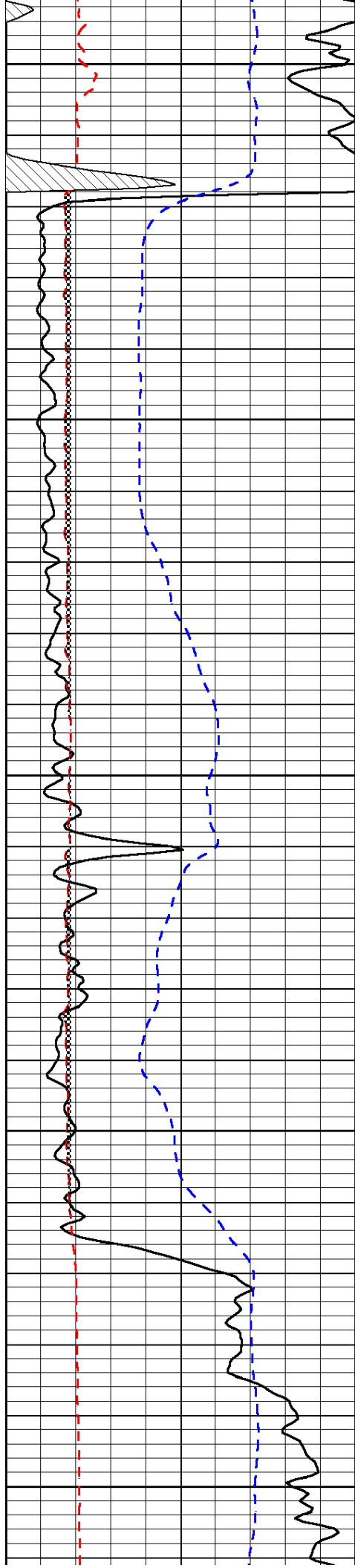
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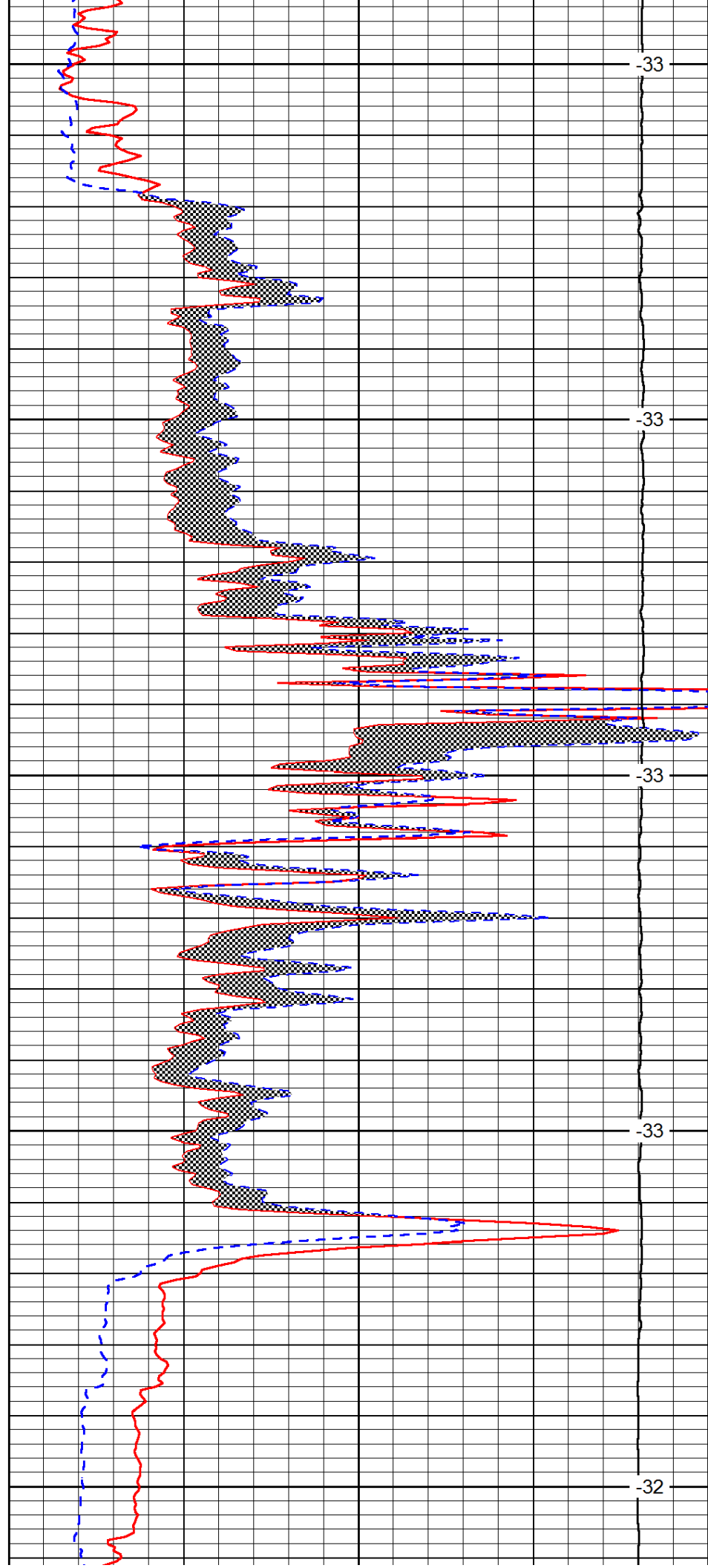
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2700



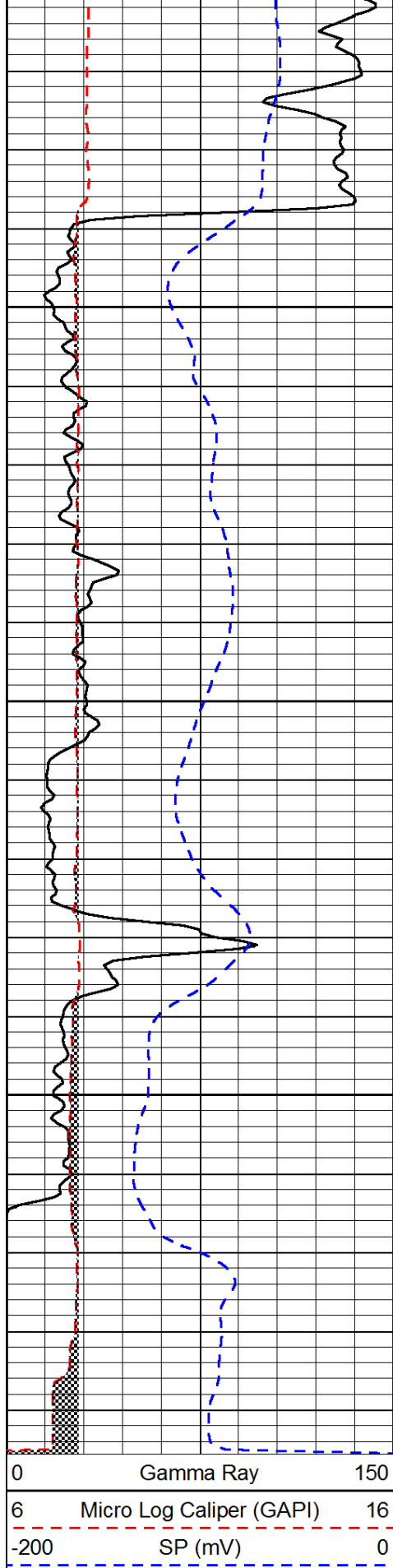
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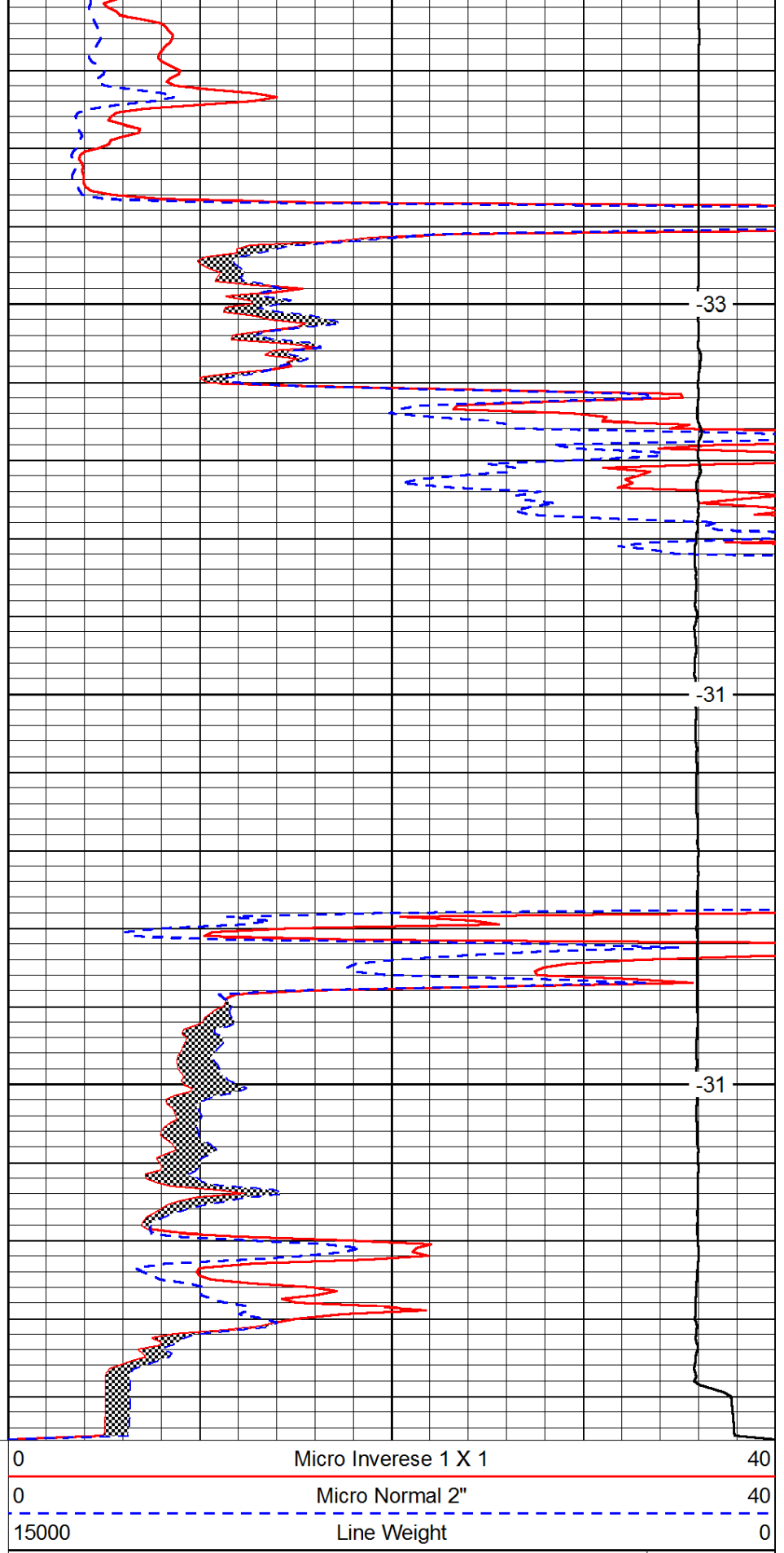
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LSPD