



Pioneer Energy Services

Microresistivity Log

API No.	Company Landmark Resources, Inc.				
	Well Janzen No. 1-1				
	Field Wildcat				
	County	Scott	State	Kansas	
15-171-21,011-00-00	Location	SW-SE-SW-SE 100' FSL & 1870' FEL			Other Services CNL/CDL DIL/BHCS
	Sec: 1	Twp: 17S	Rge: 34W	Elevation K.B. 3109 D.F. G.L. 3098	
Permanent Datum	Ground Level	Elevation 3098			
Log Measured From	Kelly Bushing	11	Ft. Above Perm. Datum		
Drilling Measured From	Kelly Bushing				
Date	12/22/13				
Run Number	Two				
Depth Driller	4897				
Depth Logger	4902				
Bottom Logged Interval	4901				
Top Log Interval	3550				
Casing Driller	8.625 @ 261				
Casing Logger	260				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity, ppm CL	8,300				
Density / Viscosity	9.5 52				
pH / Fluid Loss	10.0 8.8				
Source of Sample	Flowline				
Rm @ Meas. Temp	.18 @ 53				
Rmf @ Meas. Temp	.14 @ 53				
Rmc @ Meas. Temp	.24 @ 53				
Source of Rmf / Rmc	Charts				
Rm @ BHT	.08 @ 125				
Operating Rig Time	5 Hours				
Max Rec. Temp. F	125				
Equipment Number	15				
Location	Hays				
Recorded By	J. Henrickson				
Witnessed By	Wes Hansen				

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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

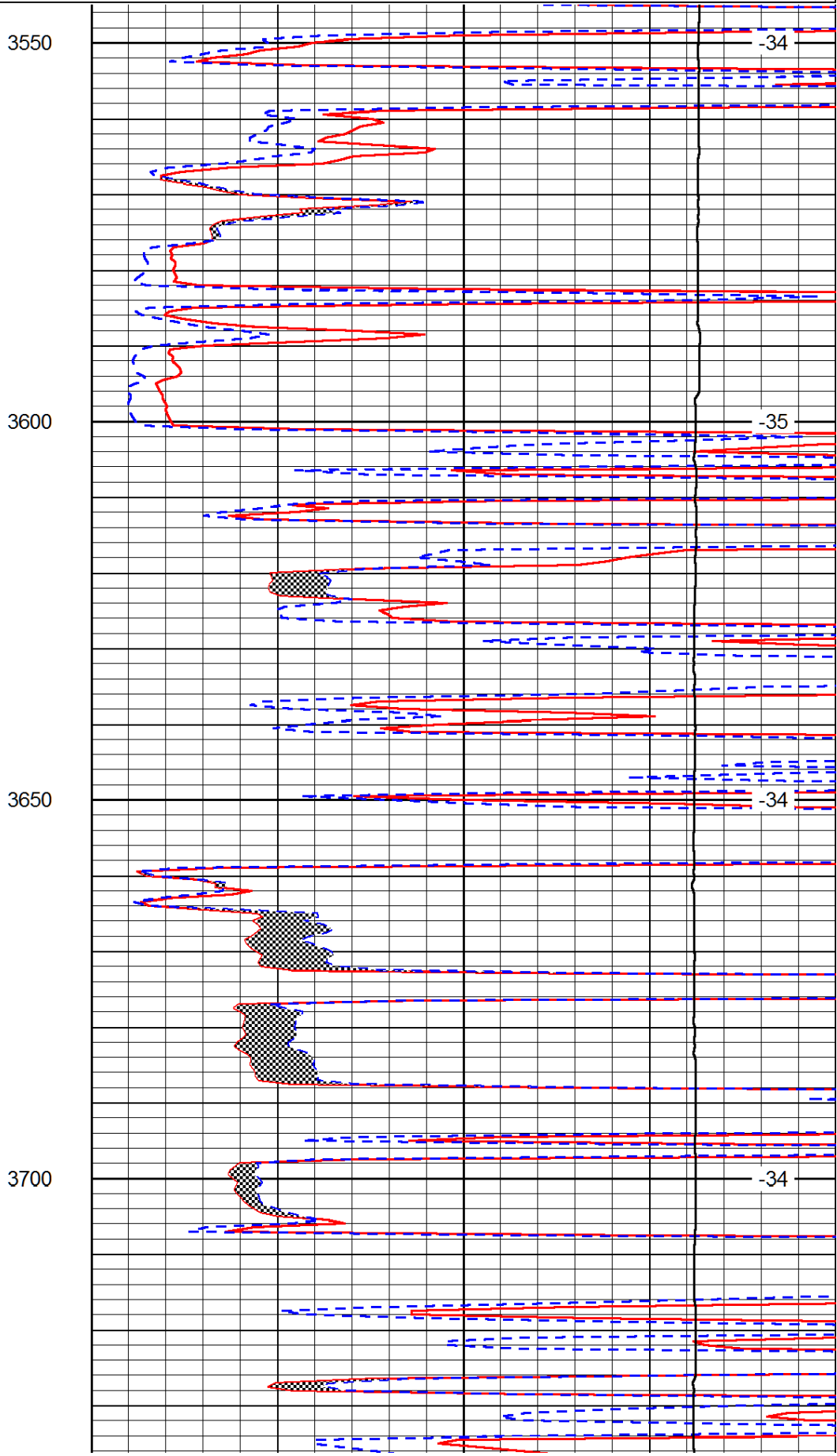
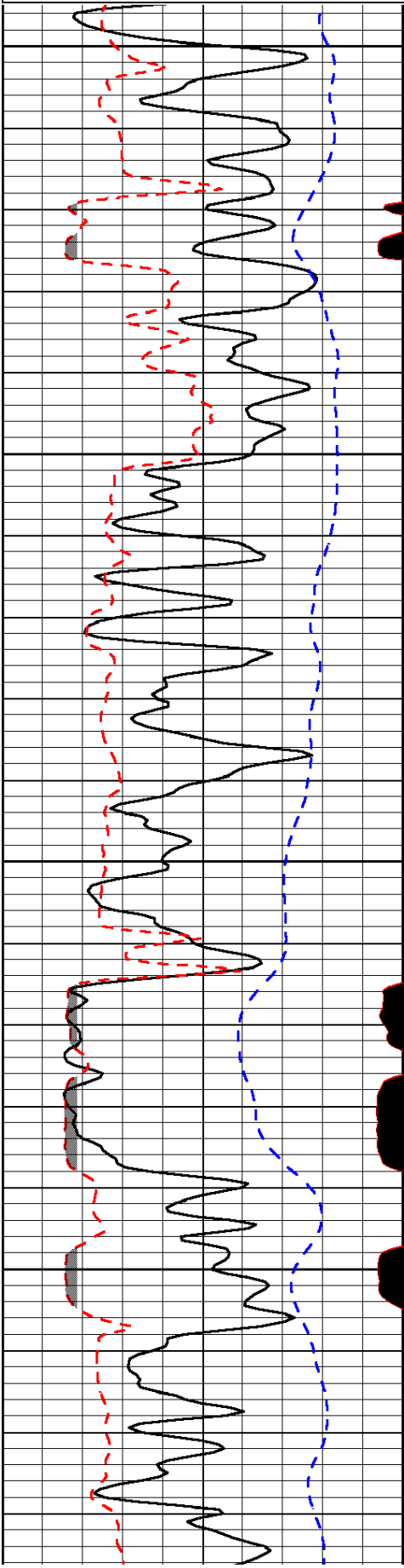
Thank you for using Log-Tech, Inc.
(785) 625-3858

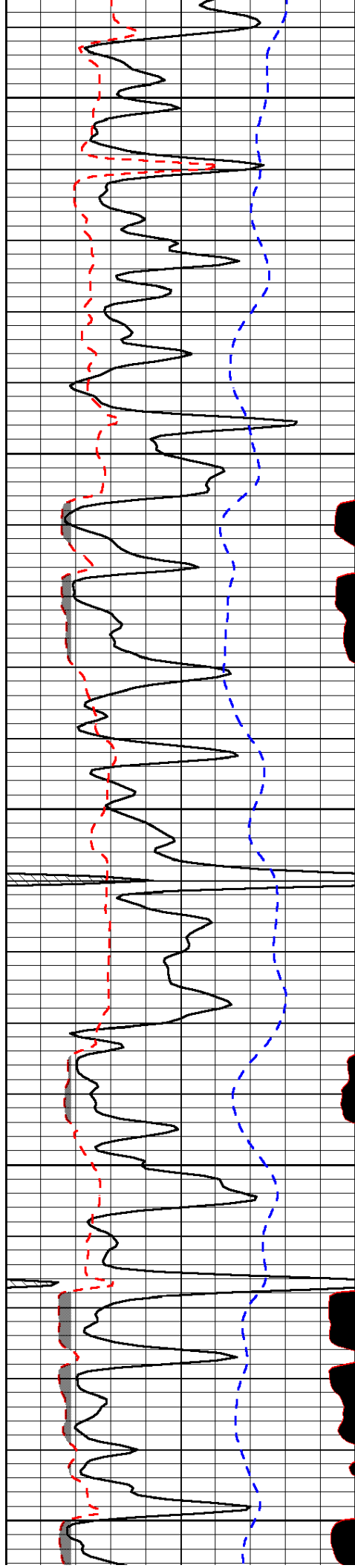
Oakley Kansas
South to HWY 83 & Hwy 4 Intersection, 6 1/2 West, North Into

Database File: landmark_janzen_1_1hd.db
Dataset Pathname: DIL/landstk
Presentation Format: micro
Dataset Creation: Sun Dec 22 12:56:11 2013
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:210		
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0
		LSPD (ft/min)





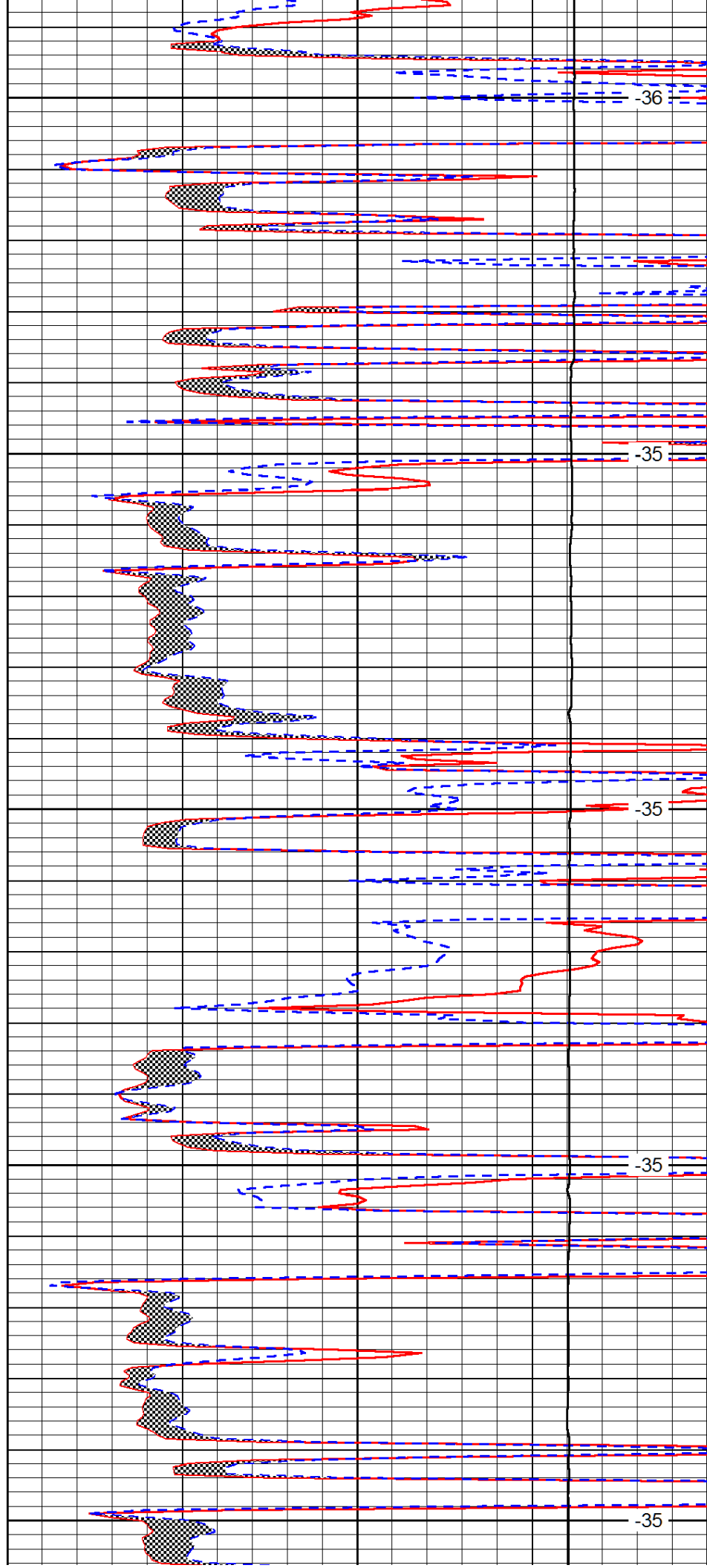
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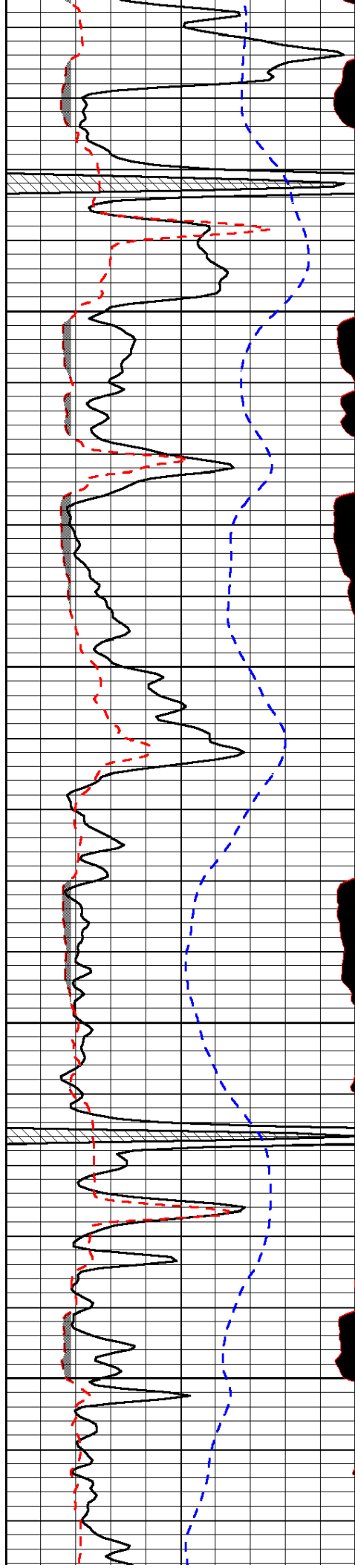
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3850

3900

3950



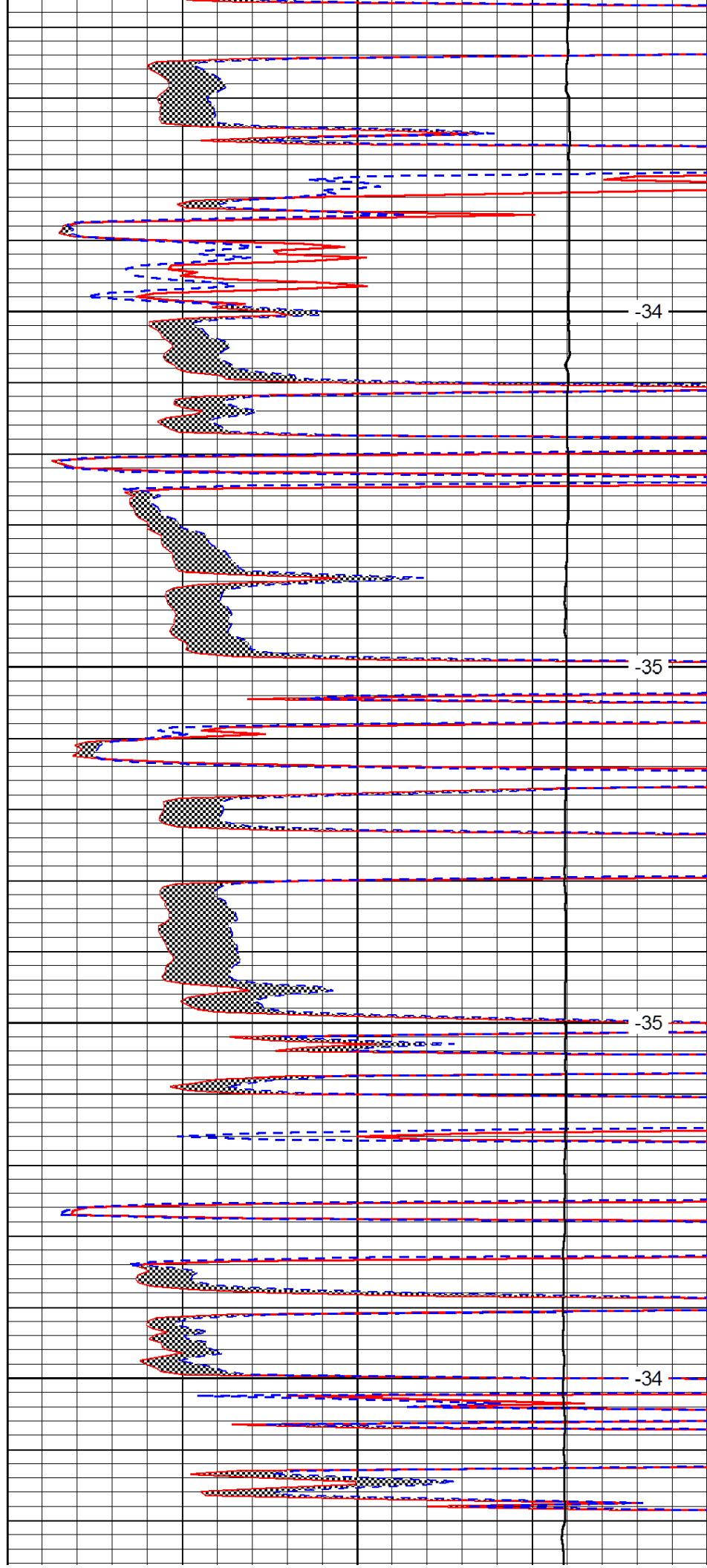


4000

4050

4100

4150

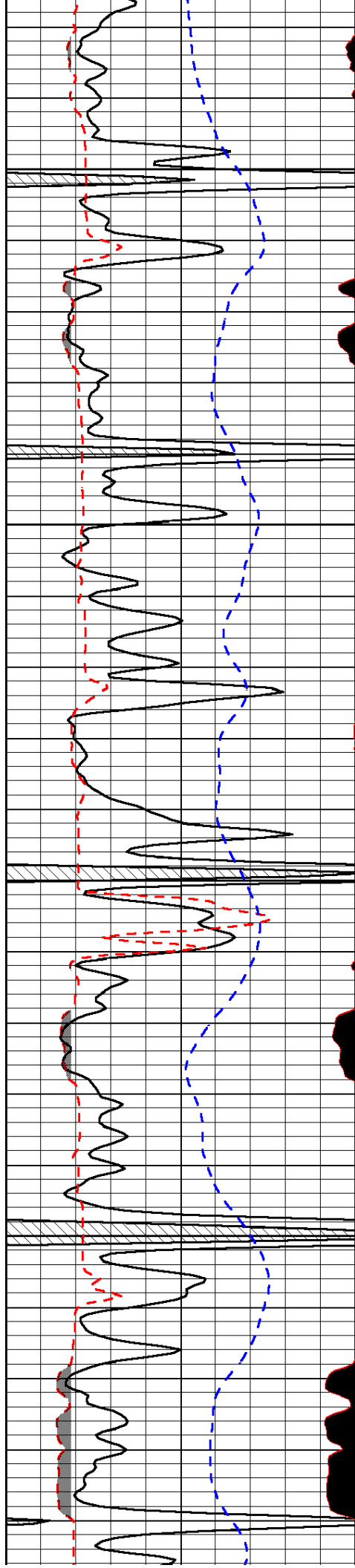


-34

-35

-35

-34

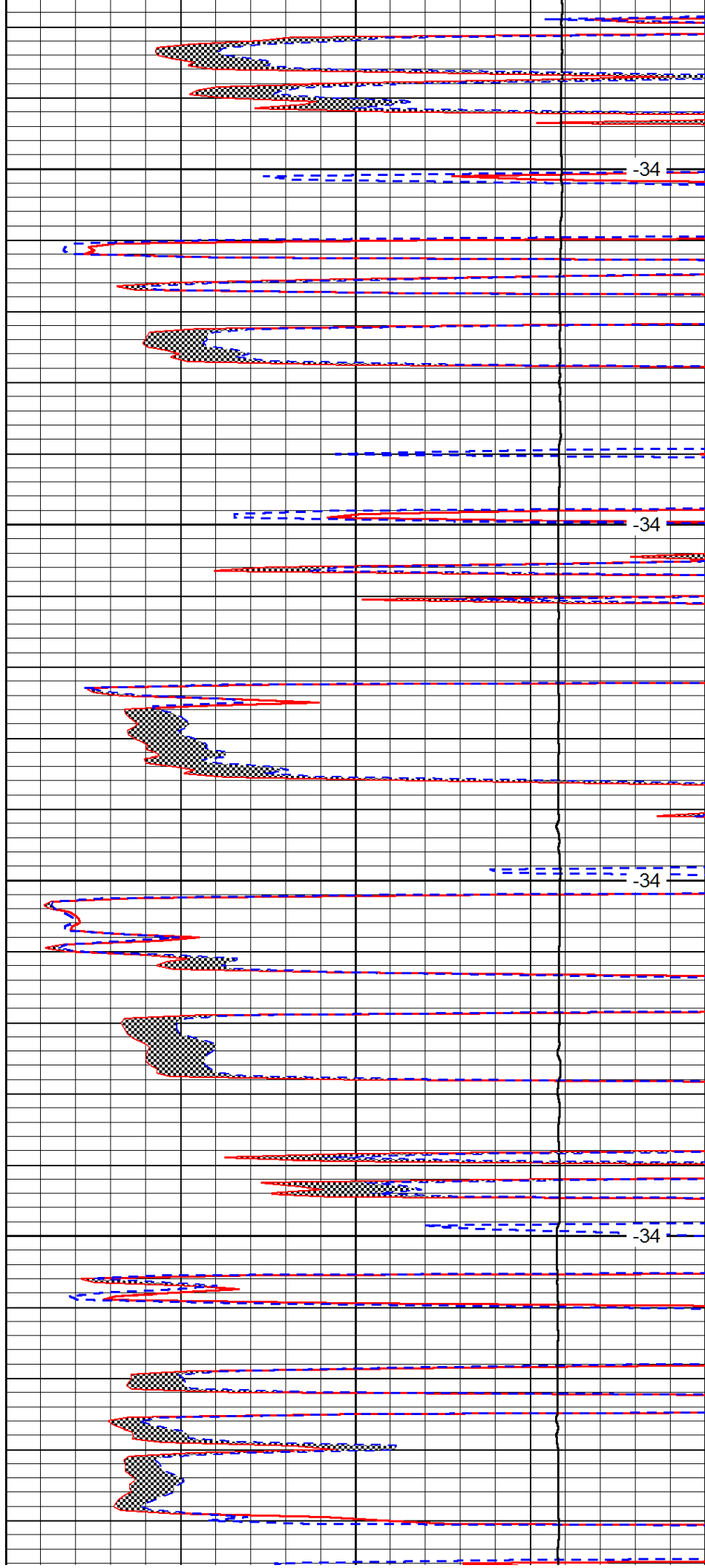


4200

4250

4300

4350

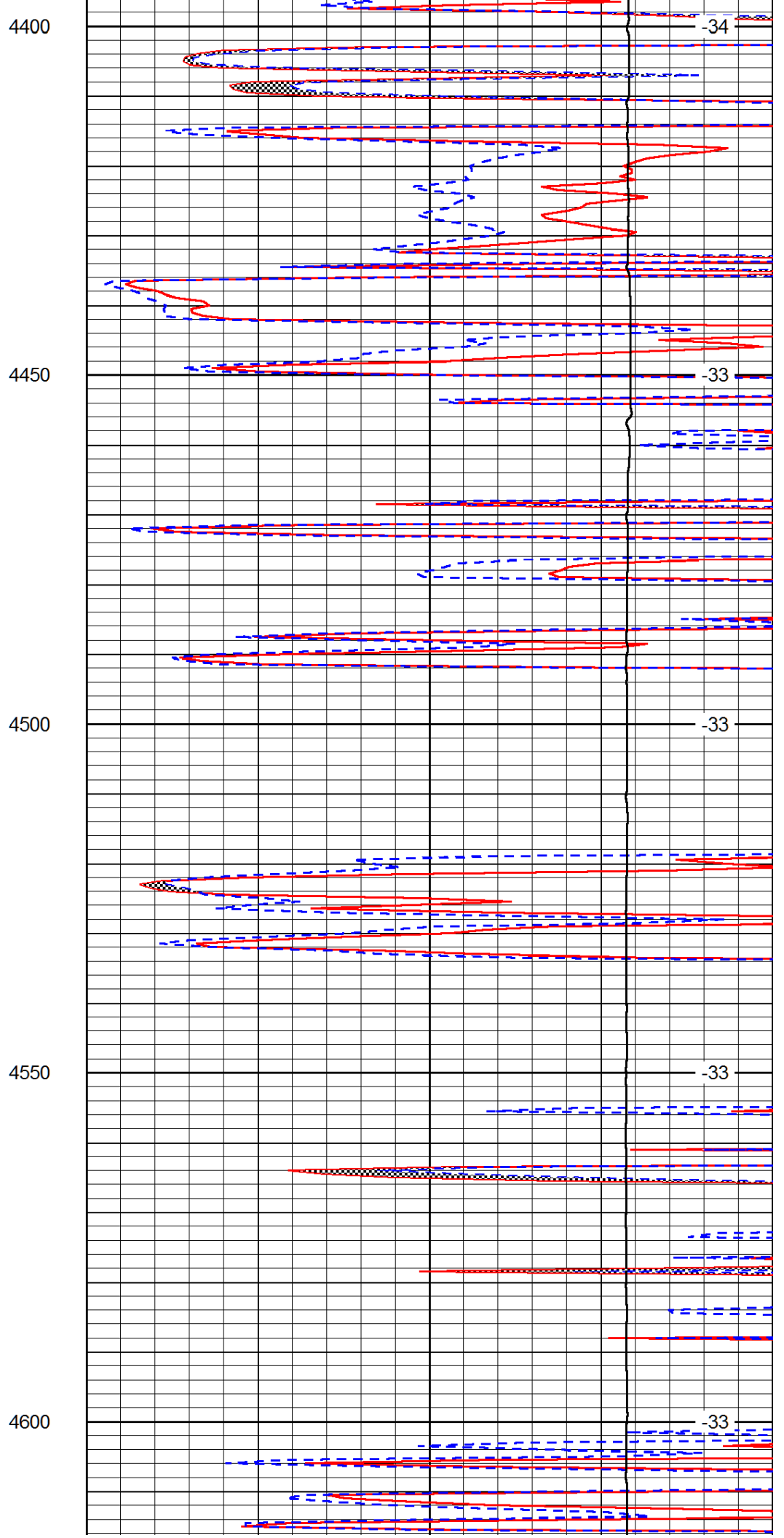
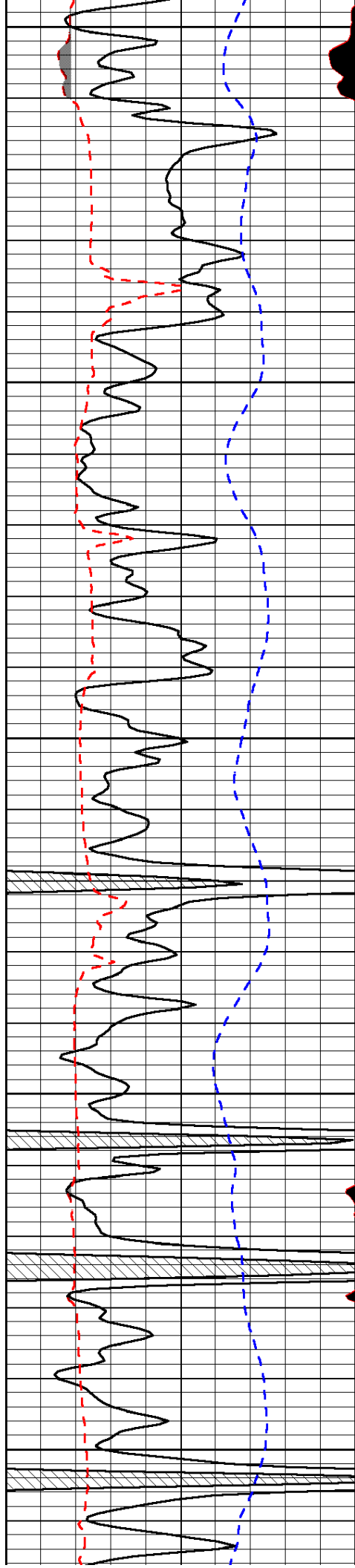


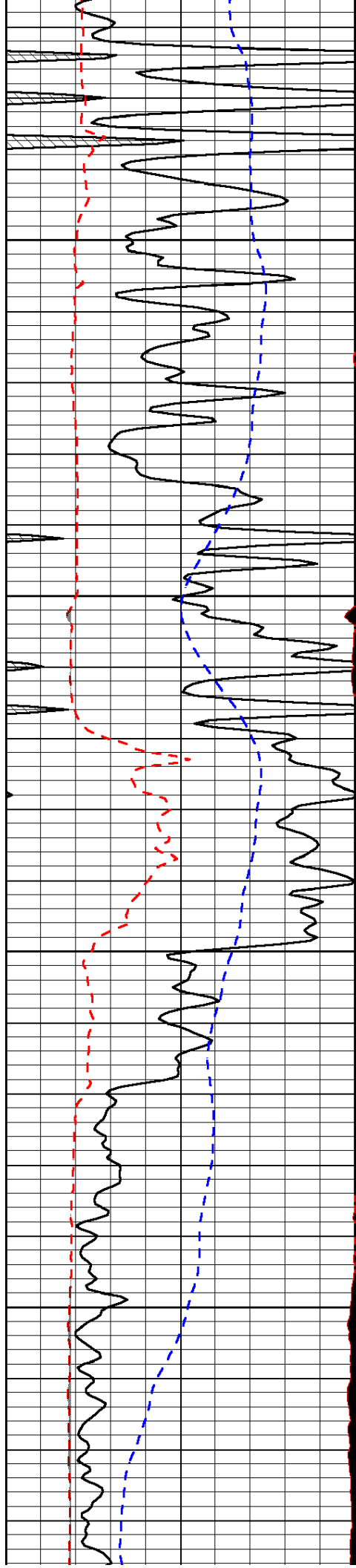
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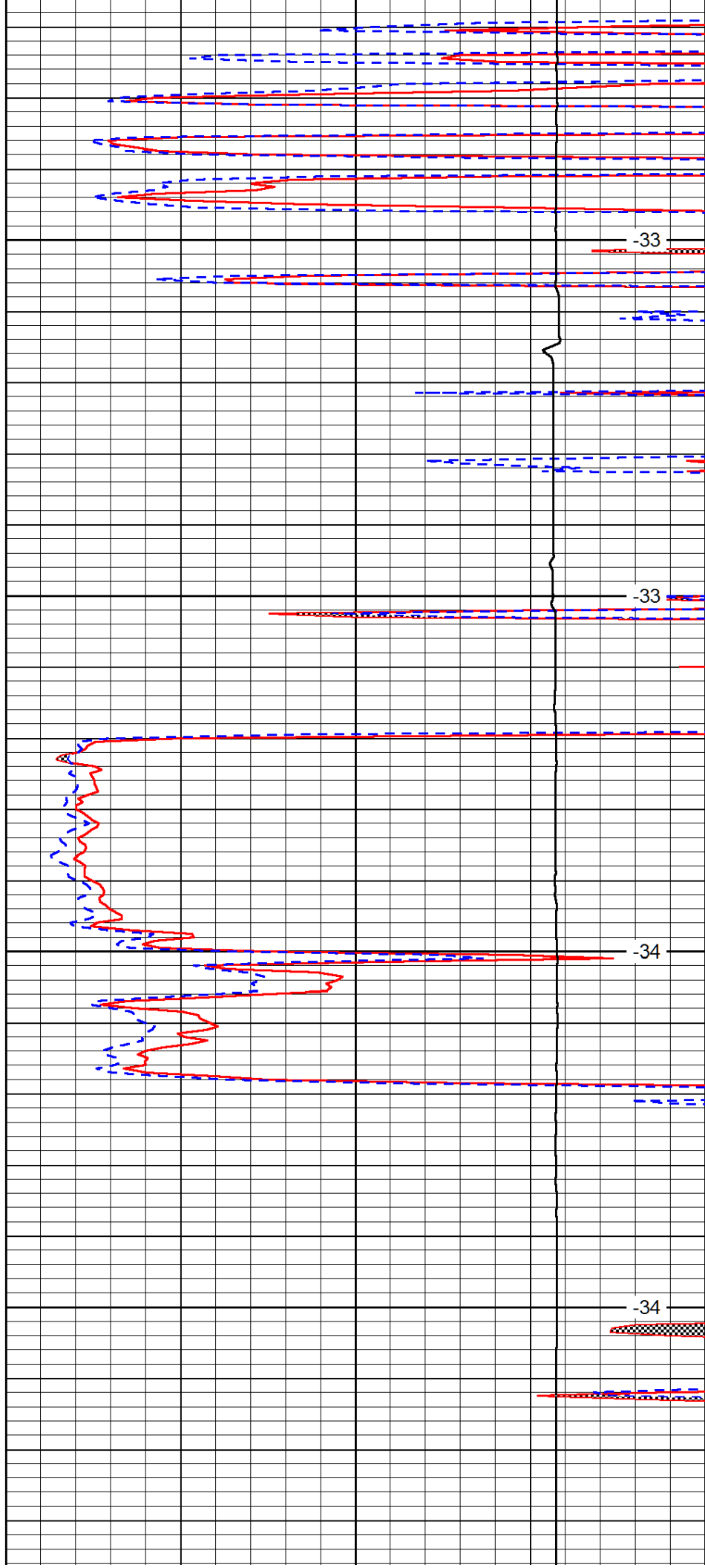


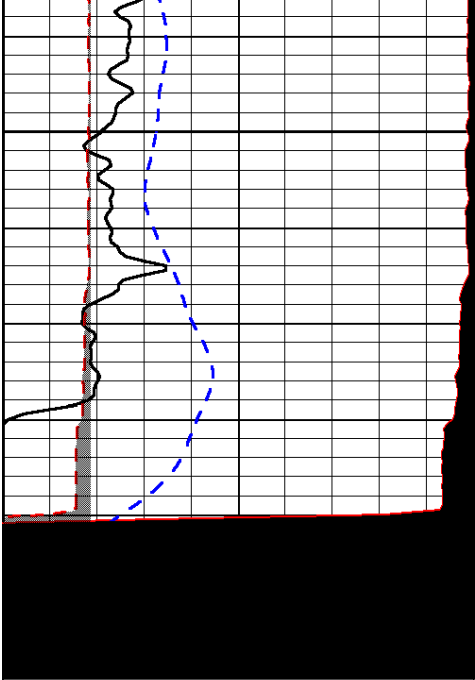
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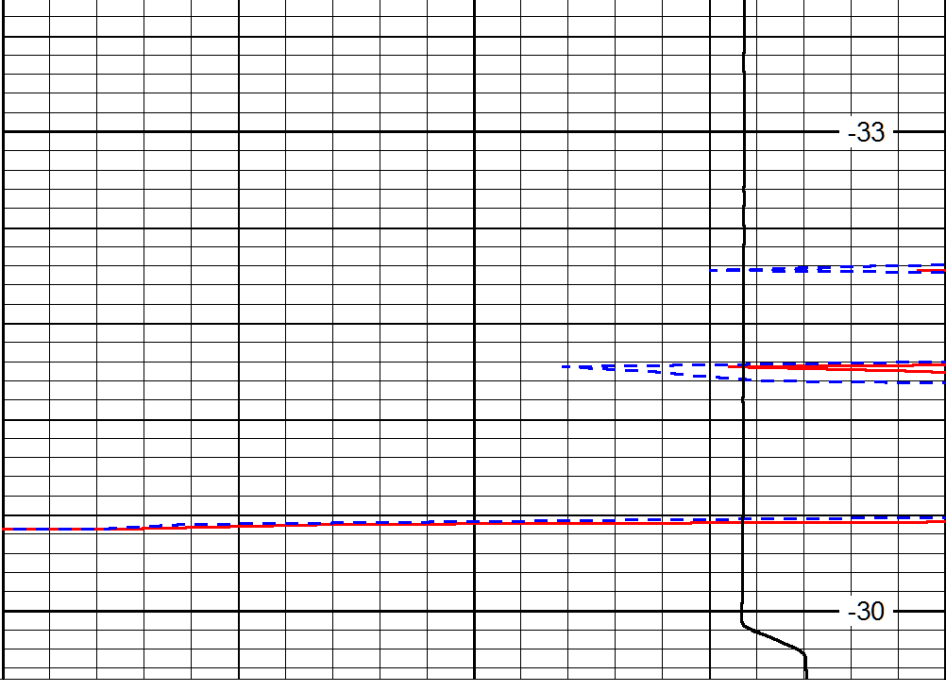




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