



Pioneer Energy Services

Microresistivity Log

API No.	Company Dan Haffner				
	Well Haffner # 5-18				
	Field Haffner Southwest				
	County Sheridan	State	Kansas		
15-179-21,368-00-00	Location	1850' FNL & 330' FWL		Other Services CNL/CDL DIL	
	Sec: 18	Twp: 9S	Rge: 27W	Elevation	
Permanent Datum	Ground Level		Elevation 2746	K.B. 2754	
Log Measured From	Kelly Bushing	8	Ft. Above Perm. Datum	D.F. 2746	
Drilling Measured From	Kelly Bushing	G.L. 2746			
Date	8/4/2014				
Run Number	Two				
Depth Driller	4484				
Depth Logger	4479				
Bottom Logged Interval	4478				
Top Log Interval	3400				
Casing Driller	8.625 @ 262				
Casing Logger	260				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity,ppm CL	1,100				
Density / Viscosity	9.5 60				
pH / Fluid Loss	10.0 8.0				
Source of Sample	Flowline				
Rm @ Meas. Temp	1.2 @ 90				
Rmf @ Meas. Temp	.90 @ 90				
Rmc @ Meas. Temp	1.62 @ 90				
Source of Rmf / Rmc	Charts				
Rm @ BHT	.89 @ 121				
Operating Rig Time	3 Hours				
Max Rec. Temp. F	121				
Equipment Number	10				
Location	Hays				
Recorded By	J. Henrickson				
Witnessed By	Dan Haffner		Richard Bell		

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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.

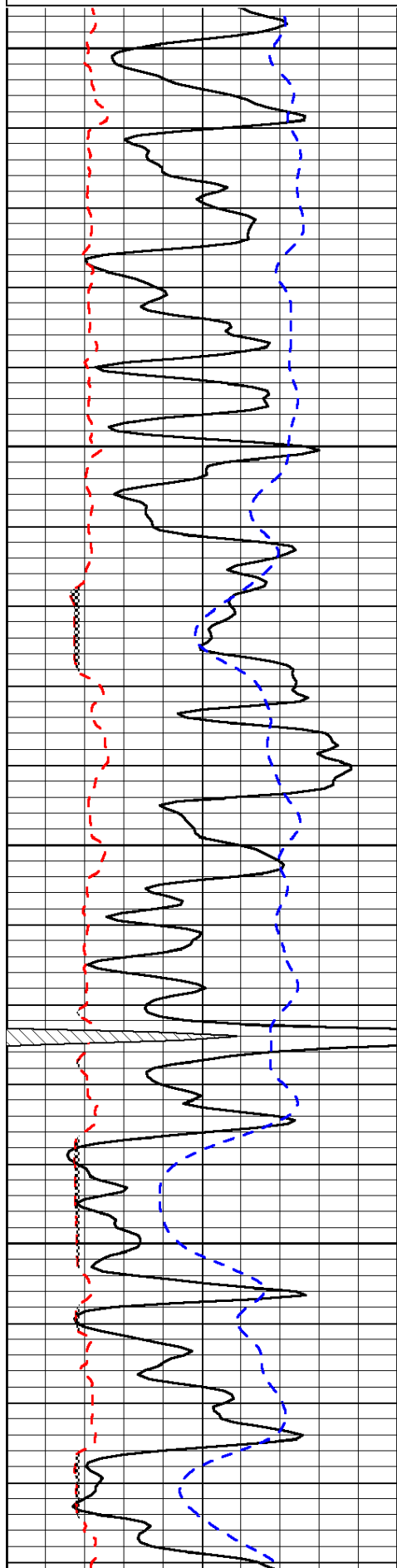
Comments

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

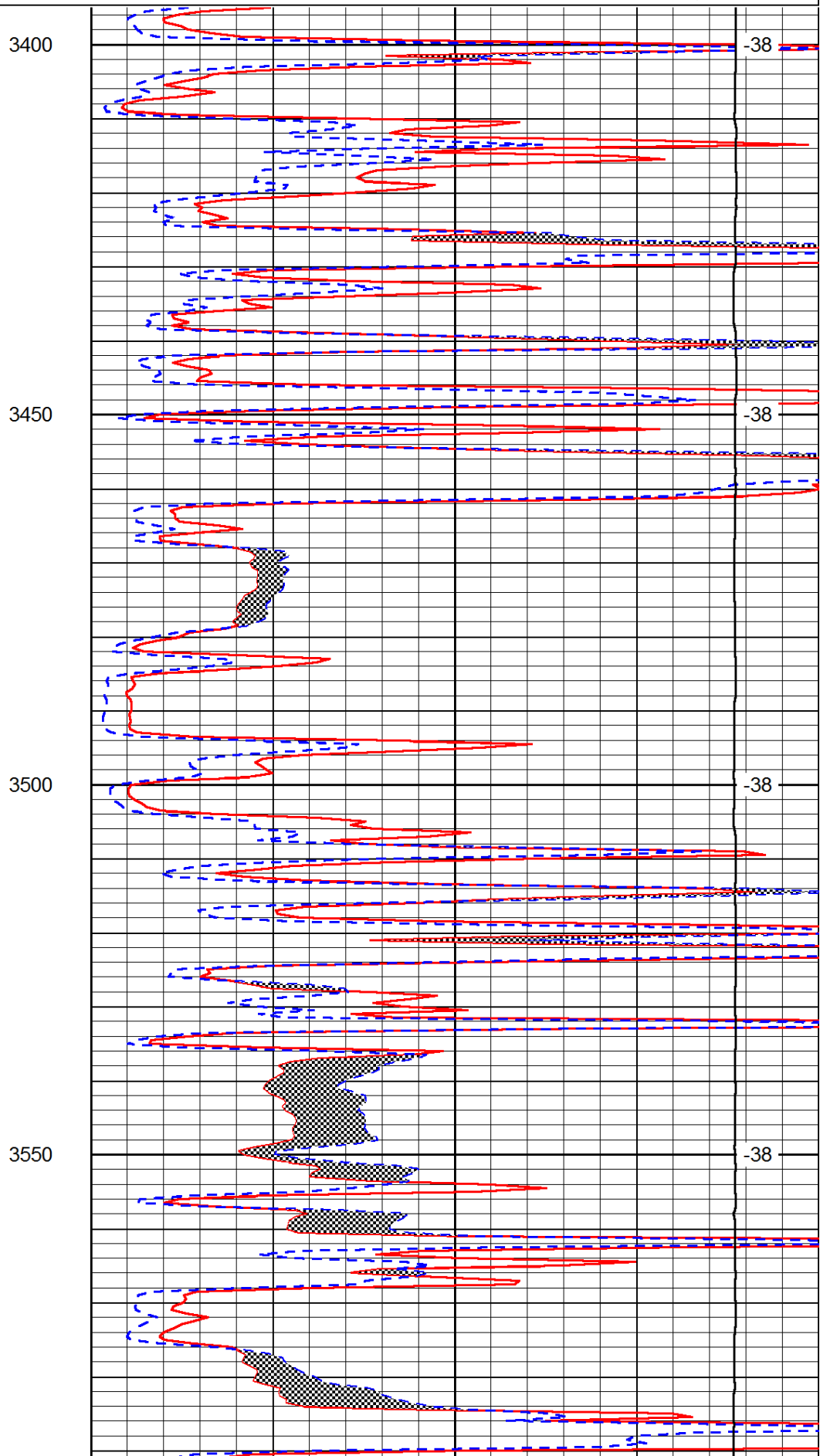
Hoxie Kansas
South to 70 S Rd, 3 1/2 East, North Into

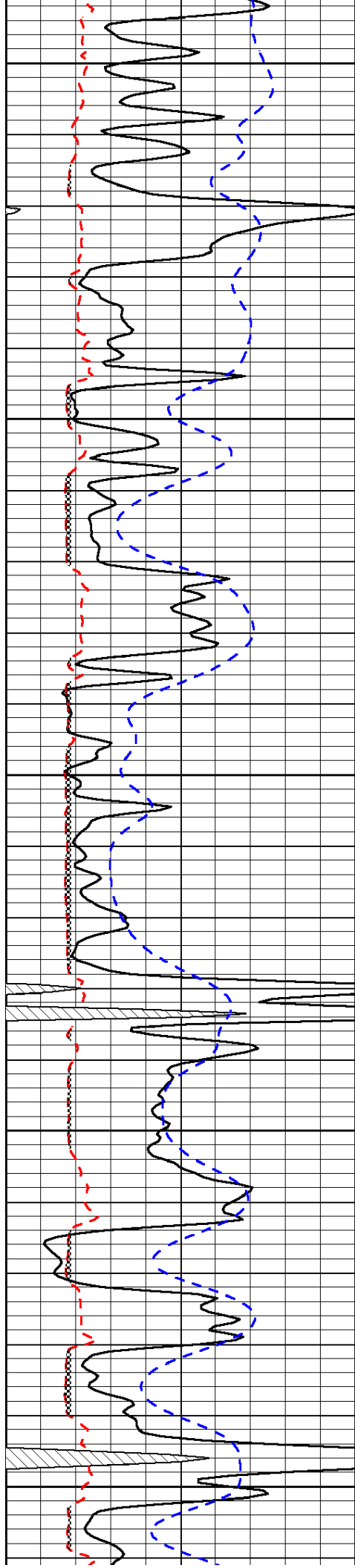
Database File: c:\warrior\data\dan haffner_haffner # 5-18\haffner_haffner_5_18hd.db
Dataset Pathname: DIL\haffstk
Presentation Format: micro
Dataset Creation: Mon Aug 04 18:25:14 2014
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0



0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0





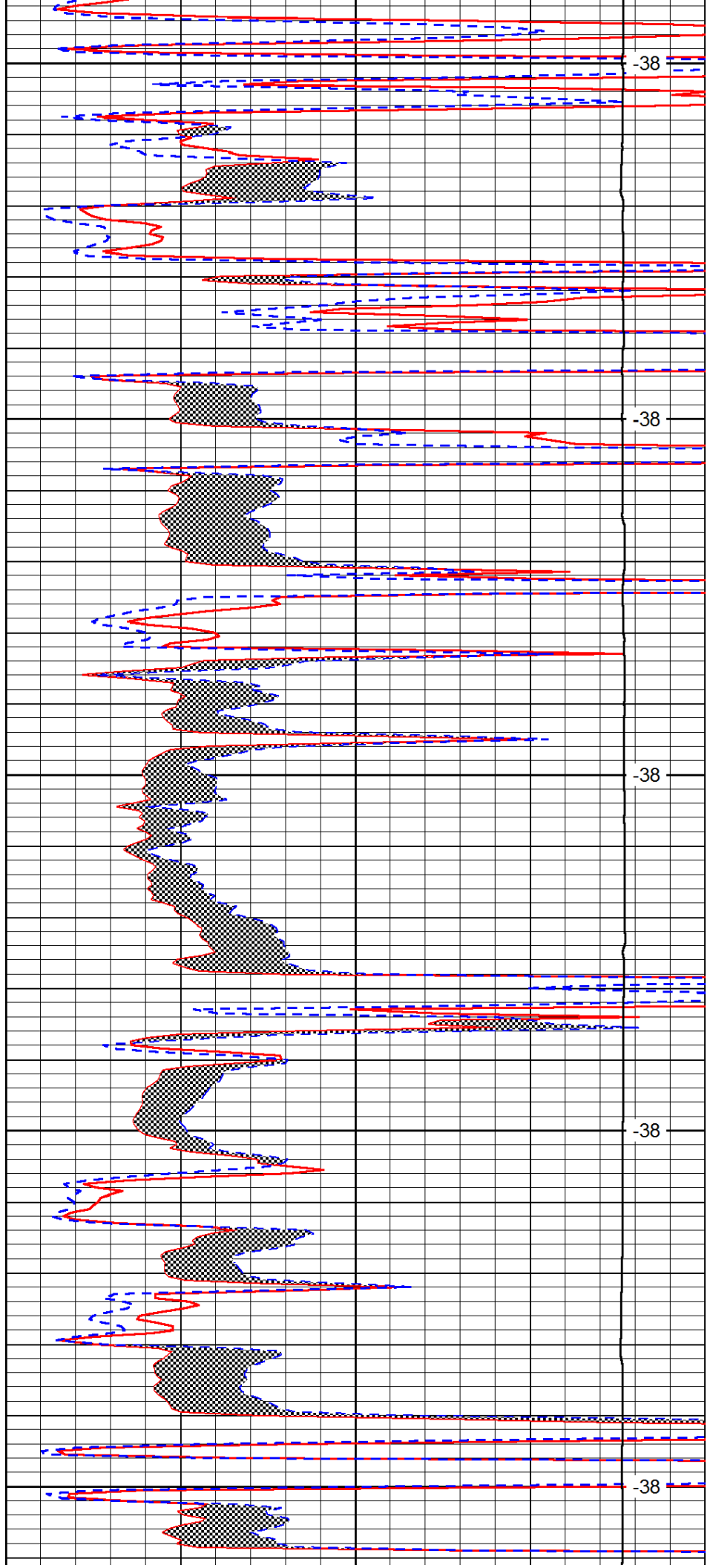
3600

3650

3700

3750

3800



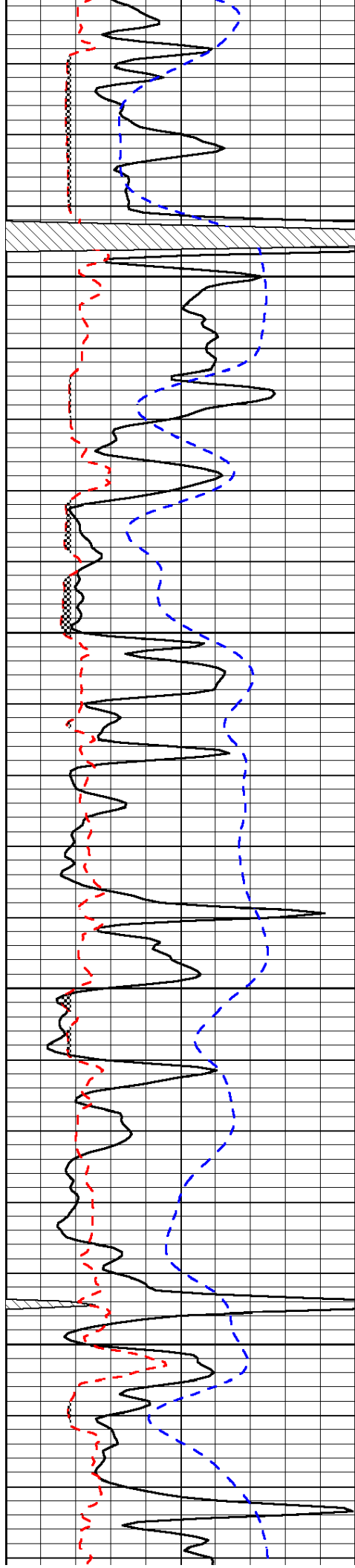
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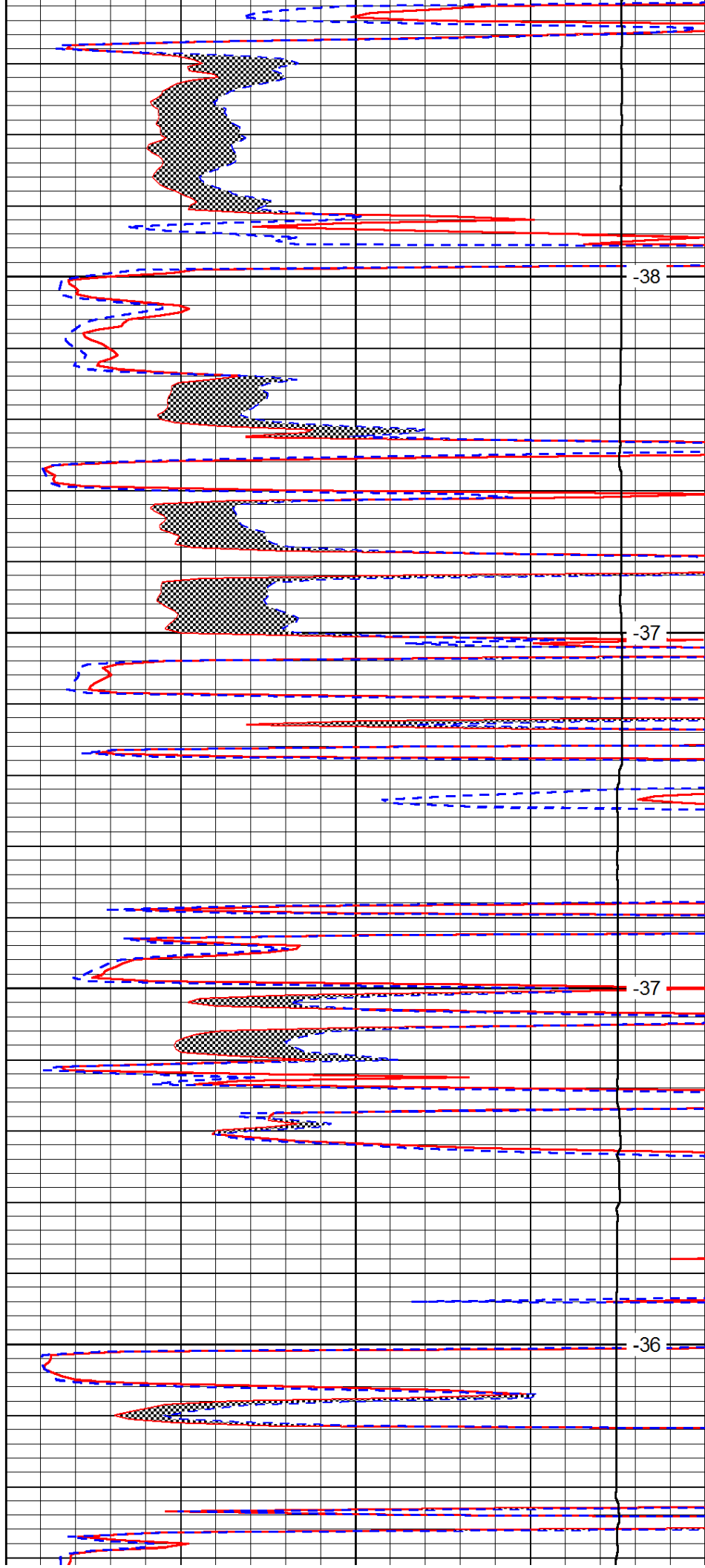


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3900

3950

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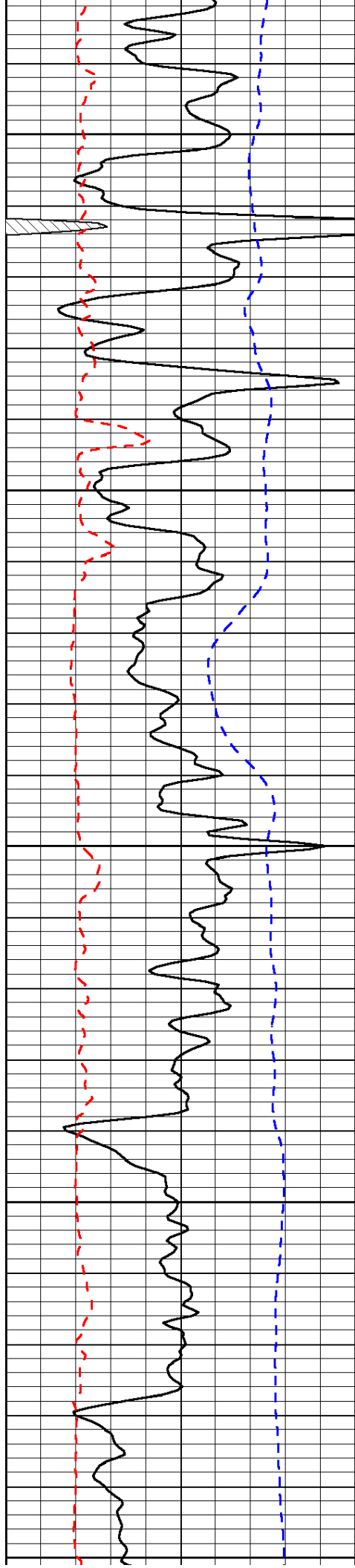


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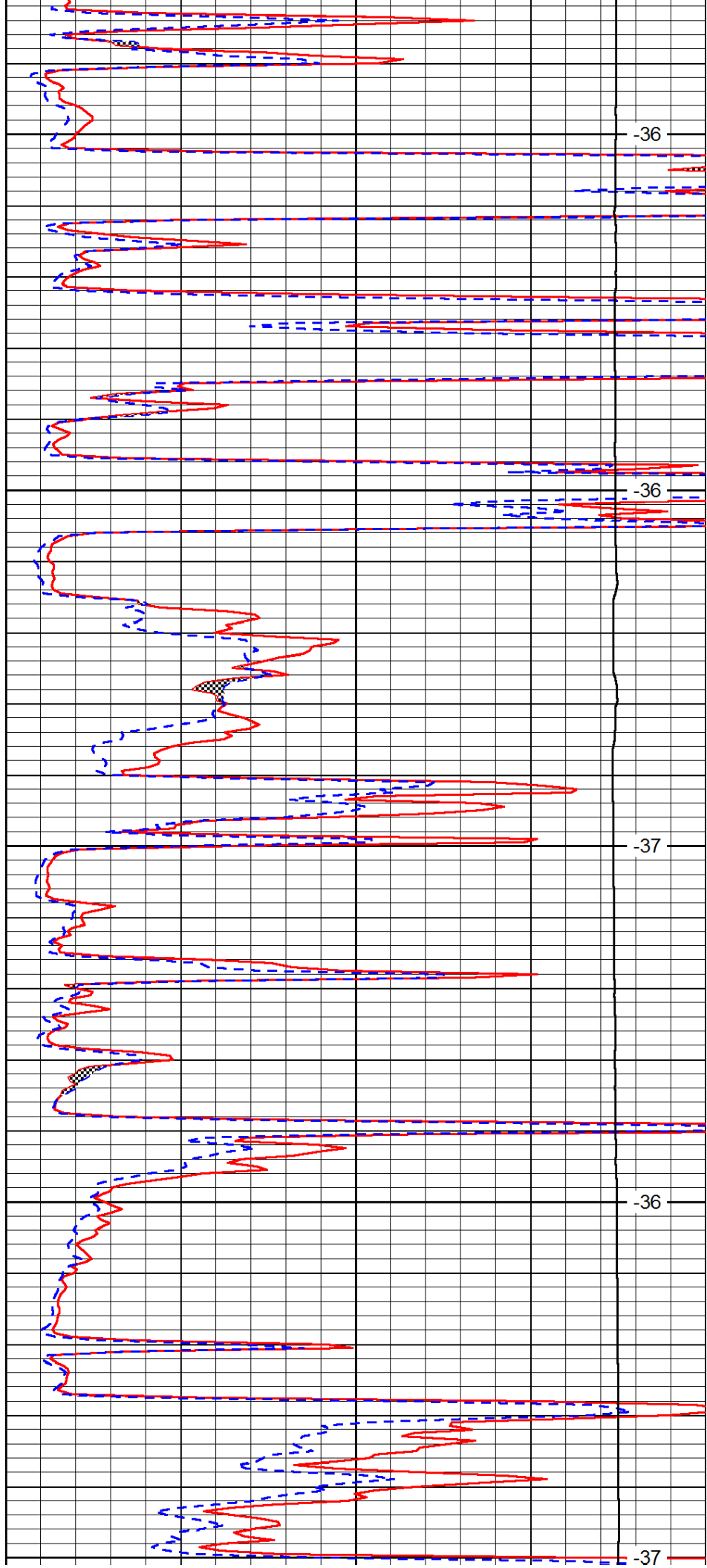
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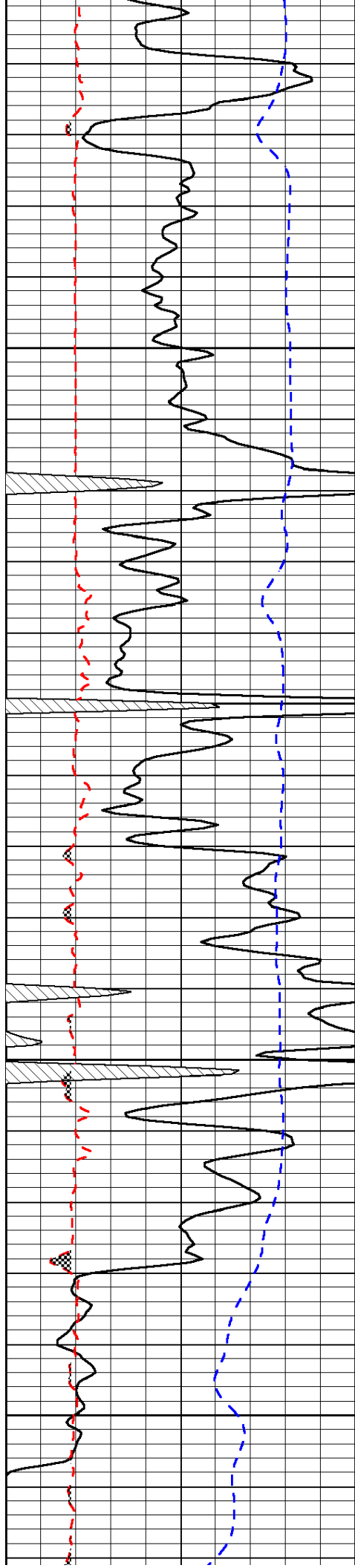
4100

4150

4200

4250





4300

4350

4400

4450

