



Microresistivity
Log

Pioneer Energy Services

API No.	Company Murfin Drilling Company, Inc. Well Mary Ann No. 2-1 Field				
15-153-20,933-00-00	County Rawlins	State	Kansas		
Permanent Datum Log Measured From Drilling Measured From	Ground Level Kelly Bushing Kelly Bushing	Elevation 3085 10 Ft. Above Perm. Datum	Other Services CNL/CDL DIL/BHCS	Location 330' FNL & 1520' FWL	
				Sec: 1	Twp: 1S Rge: 36W
Date	8/8/2013				
Run Number	Two				
Depth Driller	4420				
Depth Logger	4410				
Bottom Logged Interval	4409				
Top Log Interval	3400				
Casing Driller	8.625 @ 223				
Casing Logger	221				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity, ppm CL	600				
Density / Viscosity	9.2	48			
pH / Fluid Loss	9.5	6.8			
Source of Sample	Flowline				
Rm @ Meas. Temp	.28	@ 68			
Rmf @ Meas. Temp	.21	@ 68			
Rmc @ Meas. Temp	.38	@ 68			
Source of Rmf / Rmc	Charts				
Rm @ BHT	.15	@ 120			
Operating Rig Time	5 Hours				
Max Rec. Temp. F	120				
Equipment Number	15				
Location	Hays				
Recorded By	J. Henrickson				
Witnessed By	Robert Hendrix				

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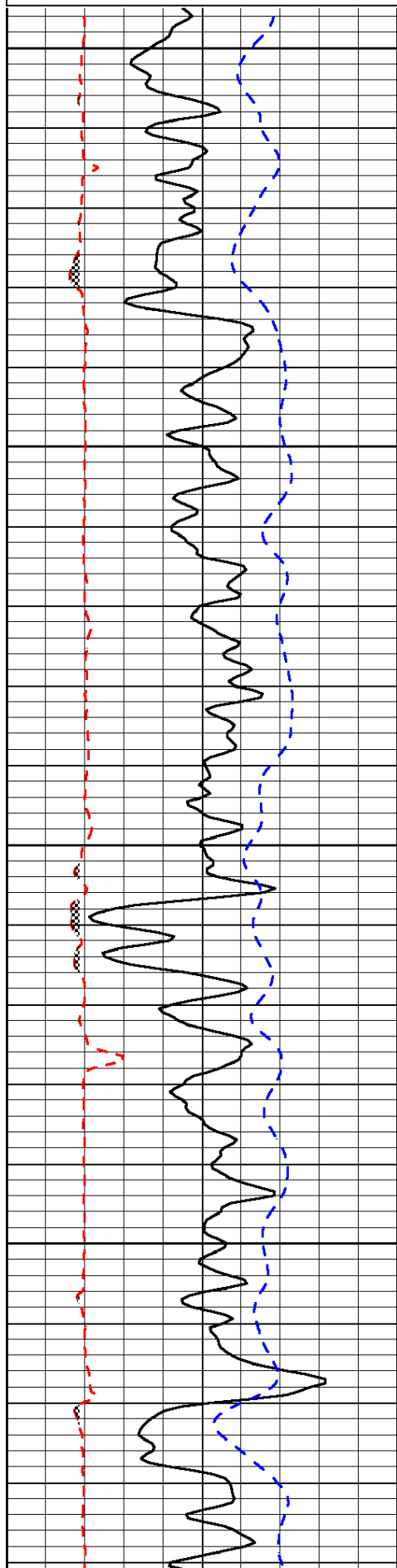
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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
Atwood Kansas
West to 11 Rd, North to Beardsley, North to CC Rd
3 West to 7 Rd. 1 1/2 North. West Into

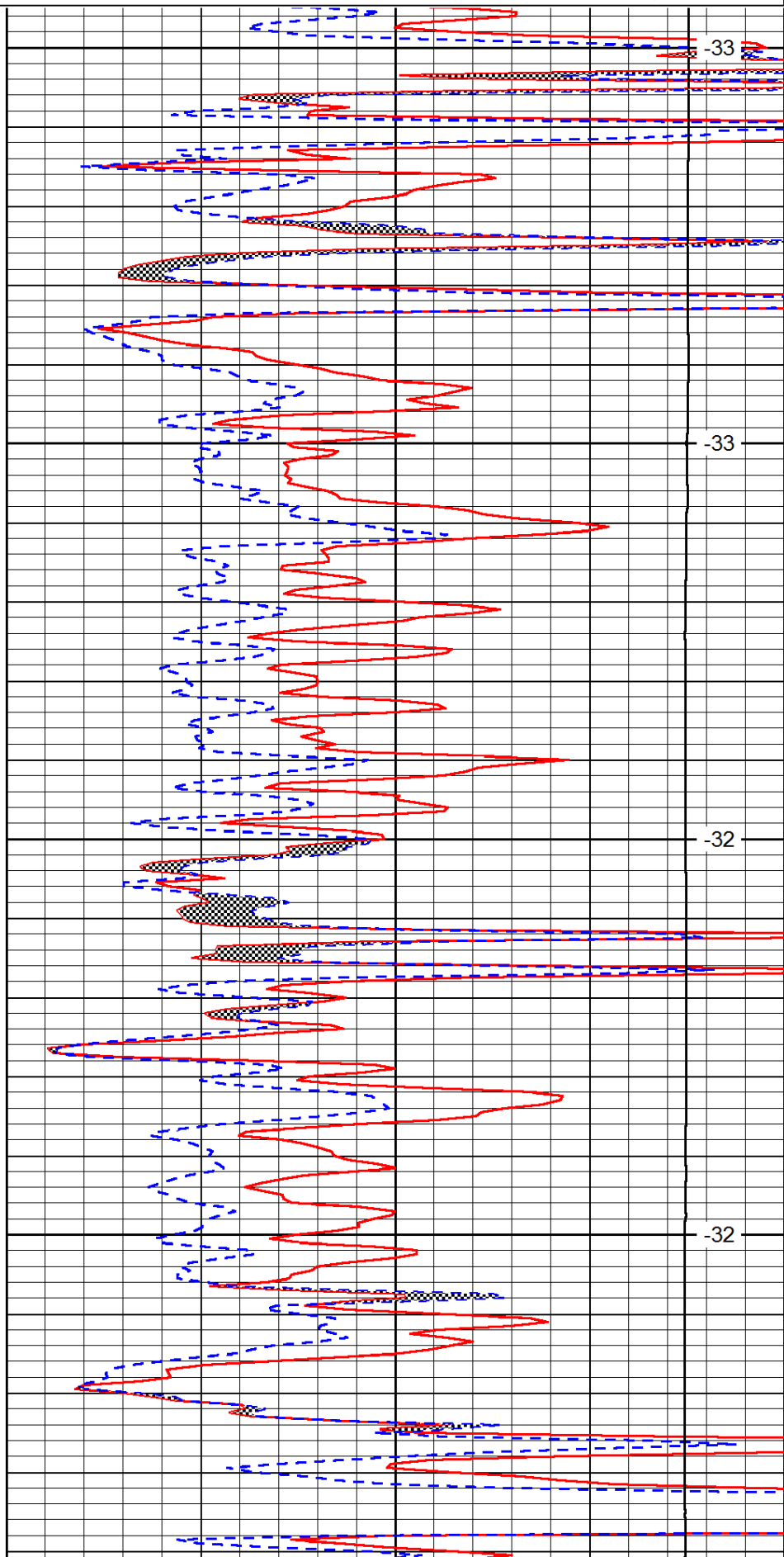
Database File: c:\warrior\data\murfin_mary ann #1-1\murfin_maryann_2_1hd.db
Dataset Pathname: DIL\murall
Presentation Format: micro
Dataset Creation: Thu Aug 08 15:57:03 2013
Charted by: Depth in Feet scaled 1:240

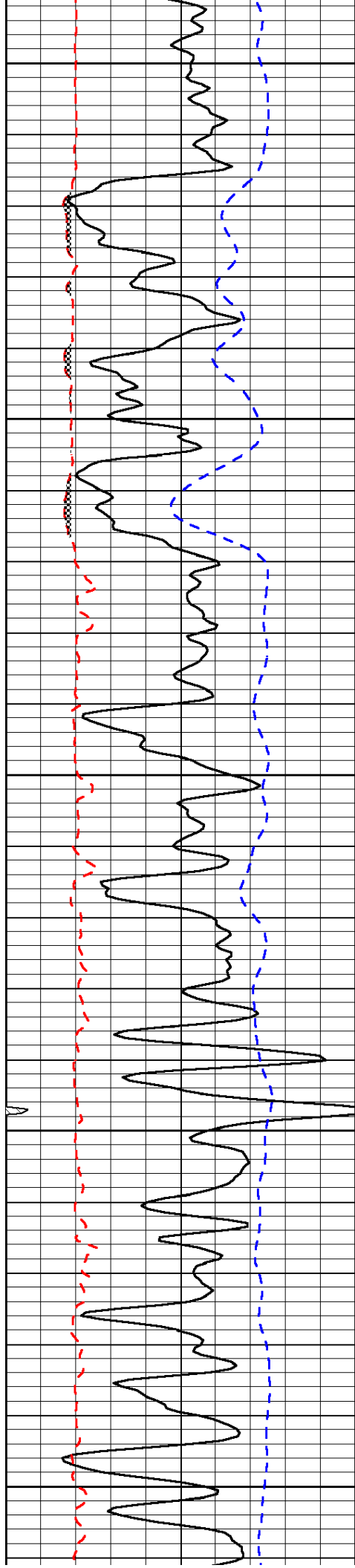
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0



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

LSPD





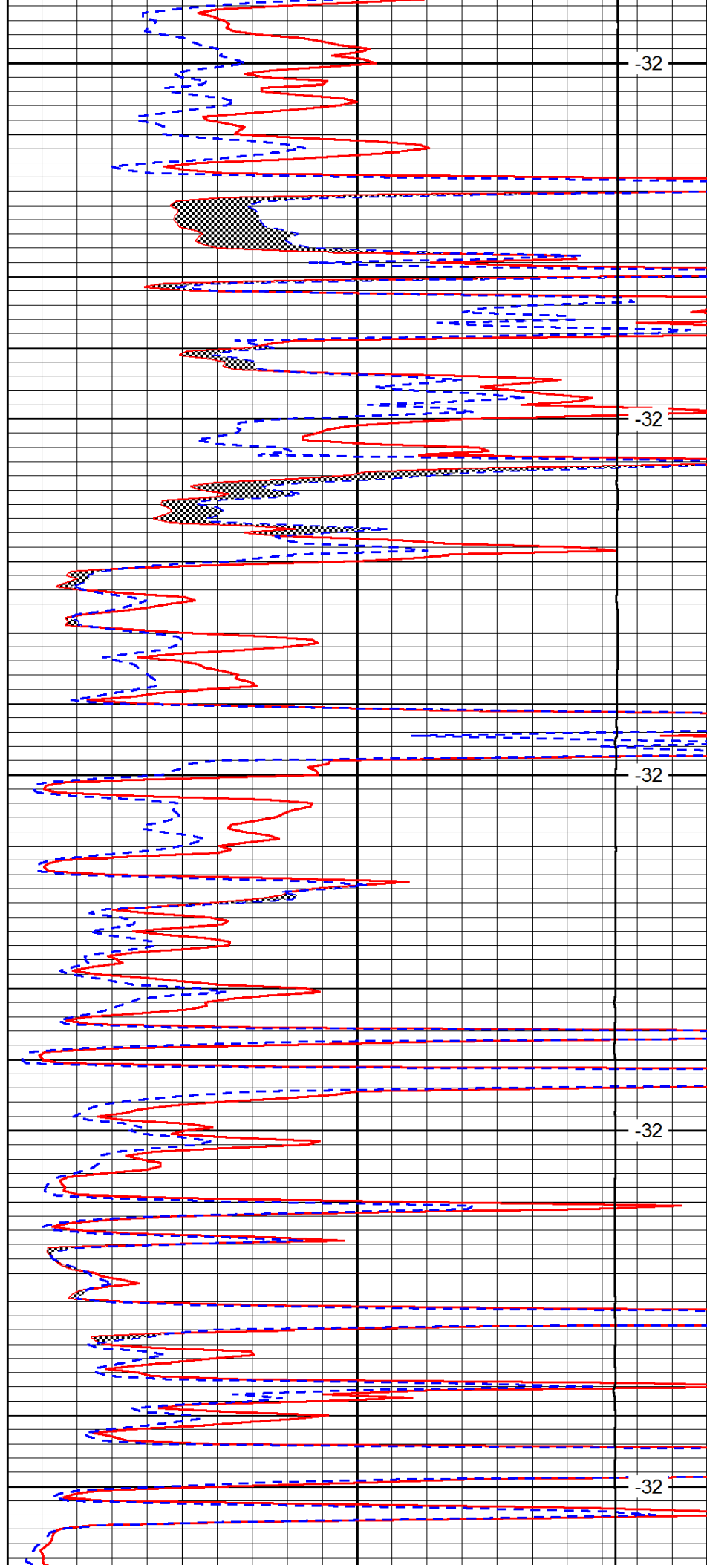
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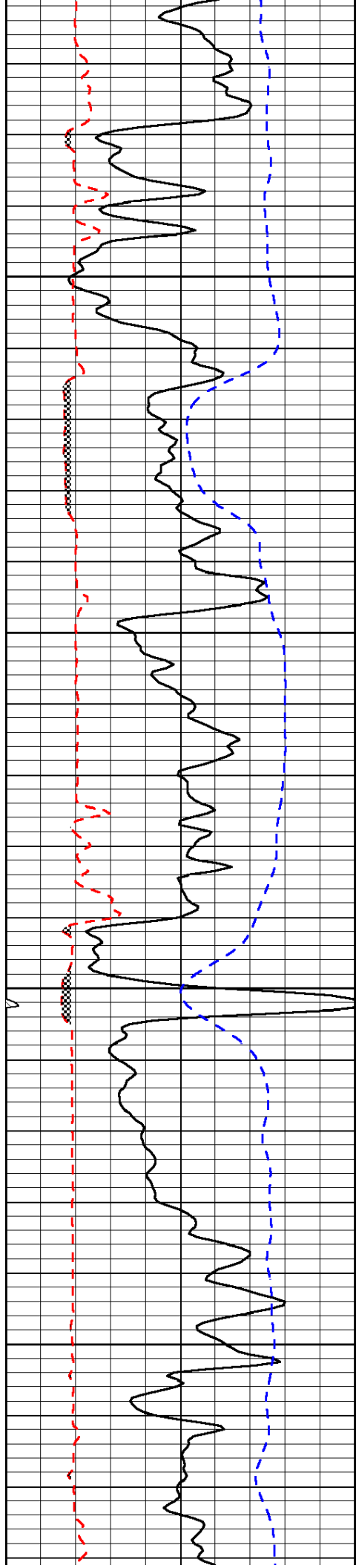
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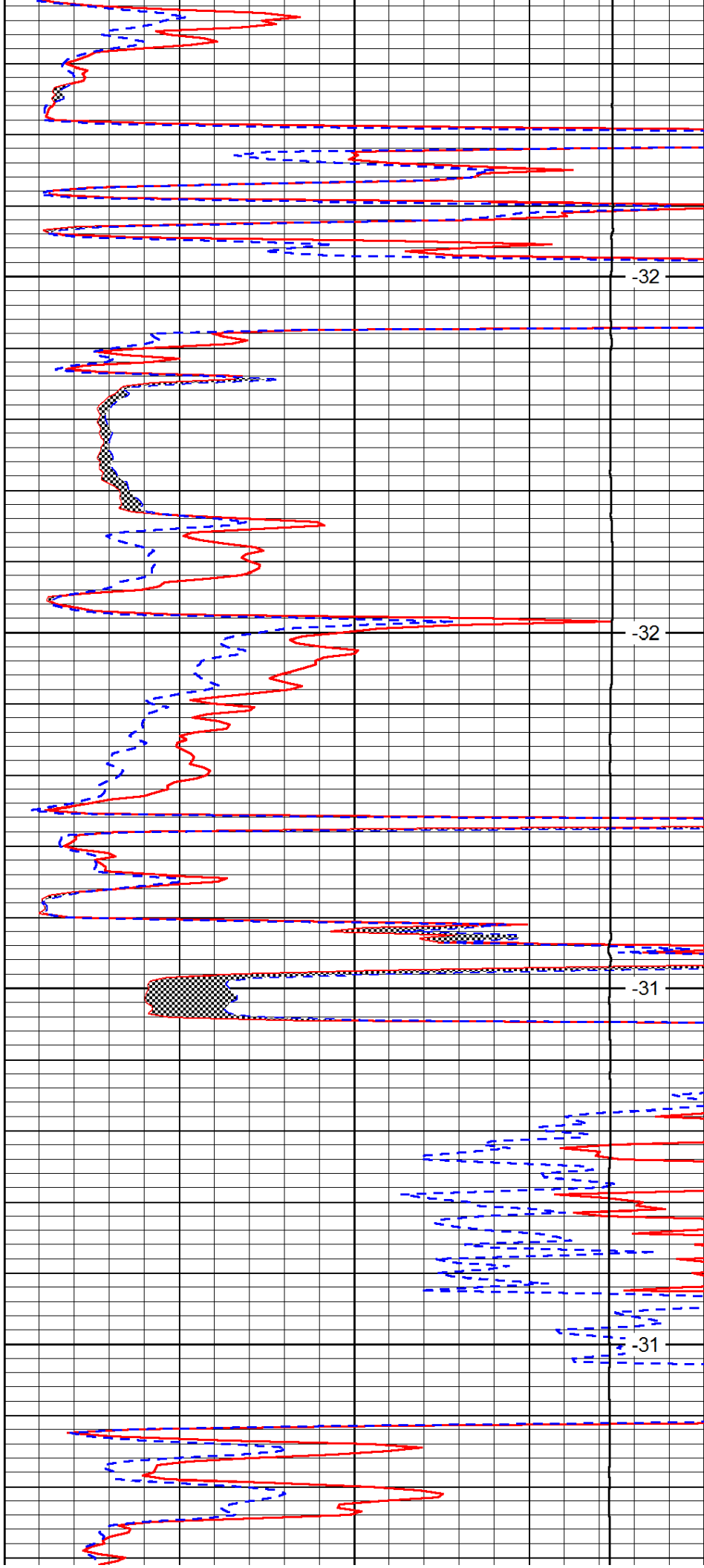


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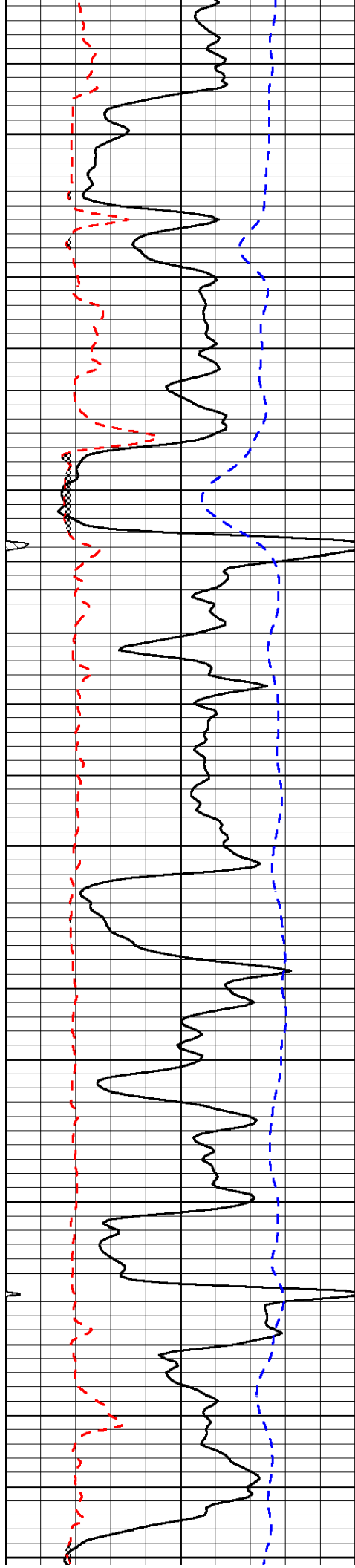


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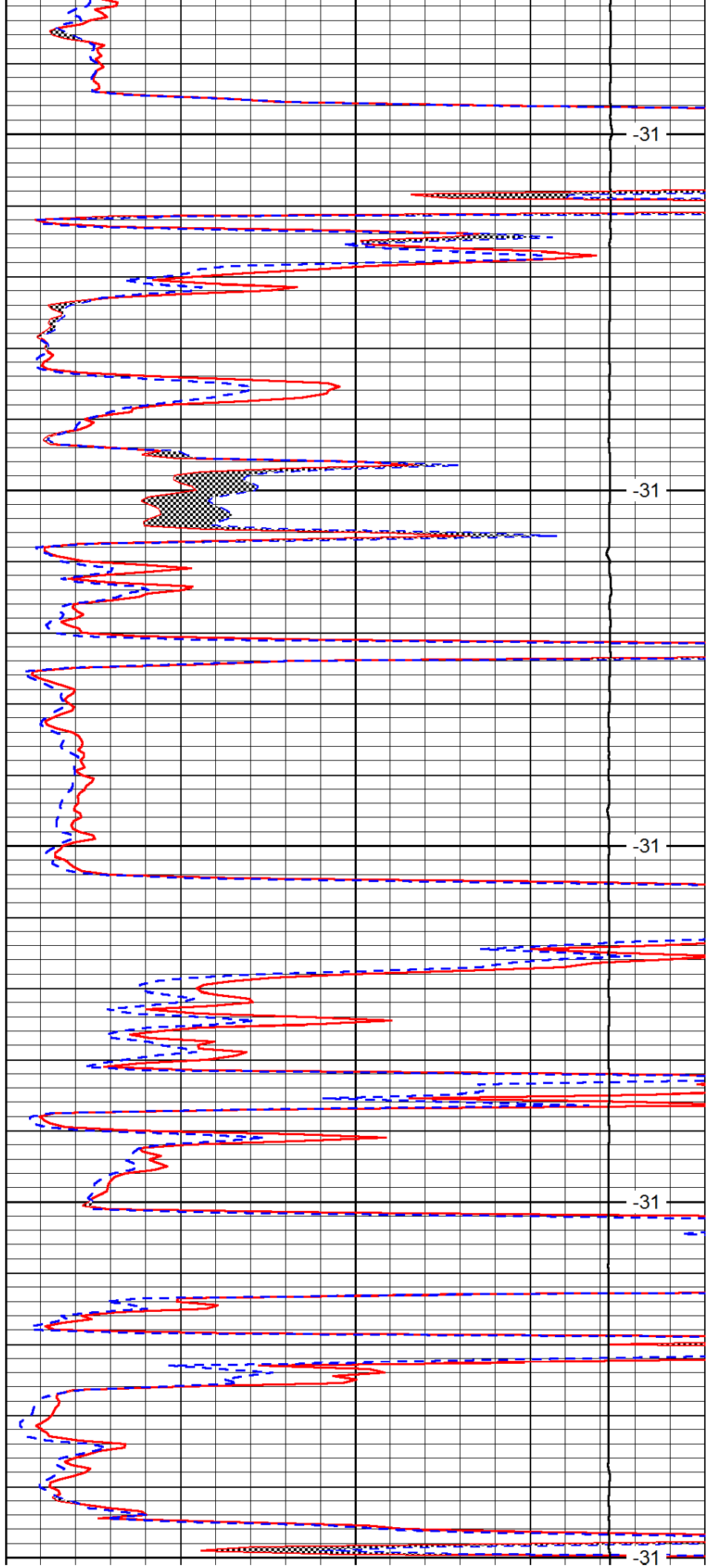
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4200

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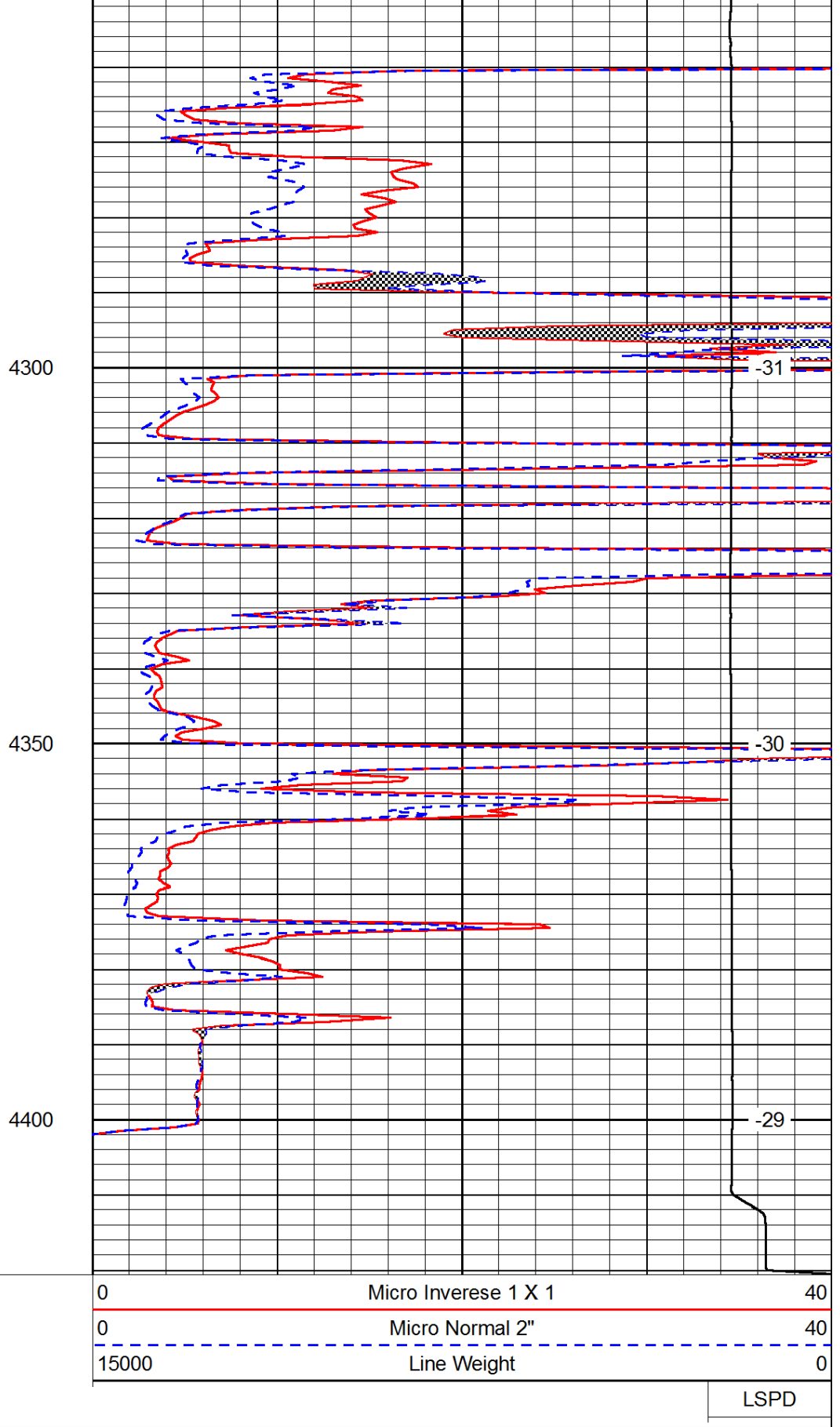
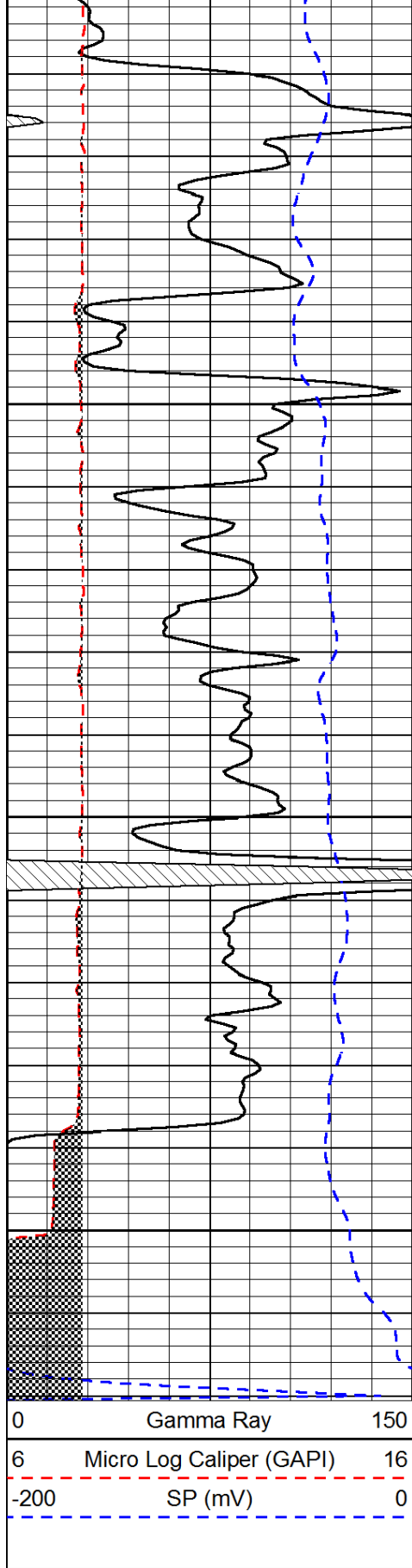
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