



Microresistivity Log

DIGITAL LOG (785) 625-3858

API No.	Company Hartman Oil Company, Inc.				
	Well Ward Twin No. 11				
	Field Damme				
	County	Finney	State	Kansas	
15-055-22,098-00-00	Location	940' FSL & 385' FEL			Other Services CNL/CDL DIL
	Sec: 16	Twp: 22S	Rge: 33W	Elevation	
Permanent Datum	Ground Level	Elevation 2895		K.B.	2905
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum		D.F.	2895
Drilling Measured From	Kelly Bushing	G.L. 2895			
Date	4/25/2011				
Run Number	Two				
Depth Driller	4800				
Depth Logger	4798				
Bottom Logged Interval	4797				
Top Log Interval	2400				
Casing Driller	8.625 @ 1780				
Casing Logger	1780				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity,ppm CL	1,600				
Density / Viscosity	9.2	58			
pH / Fluid Loss	9.5	7.6			
Source of Sample	Flowline				
Rm @ Meas. Temp	1.1 @ 57				
Rmf @ Meas. Temp	.83 @ 57				
Rmc @ Meas. Temp	1.49 @ 57				
Source of Rmf / Rmc	Charts				
Rm @ BHT	.50 @ 126				
Operating Rig Time	4 Hours				
Max Rec. Temp. F	126				
Equipment Number	17				
Location	Hays				
Recorded By	C. Desaire				
Witnessed By	Charlie Sturdavant				

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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.

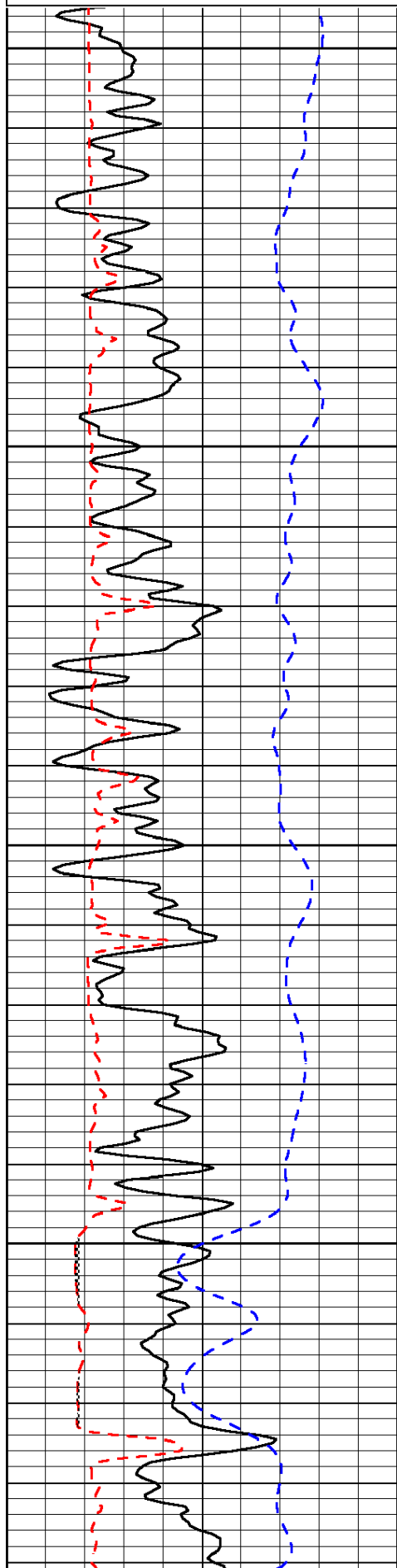
Comments

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

Scott City, S to MM 82,
3 W, 1/4 N, W Into

Database File: c:\warrior\data\hartman_ward twin no.11\harthd.db
Dataset Pathname: dil/hartstk
Presentation Format: micro
Dataset Creation: Mon Apr 25 14:35:34 2011
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



2400

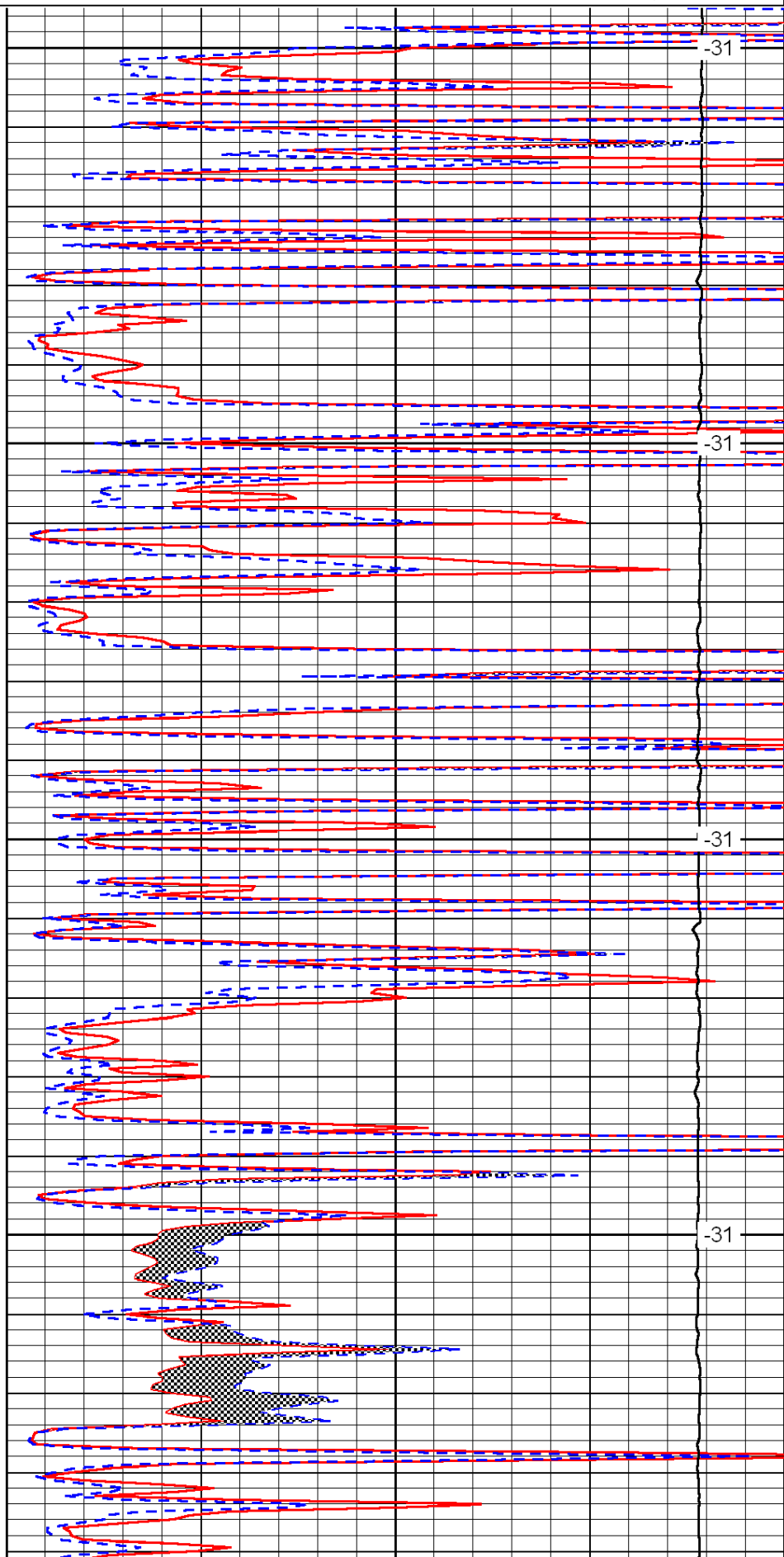
2450

2500

2550

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

LSPD

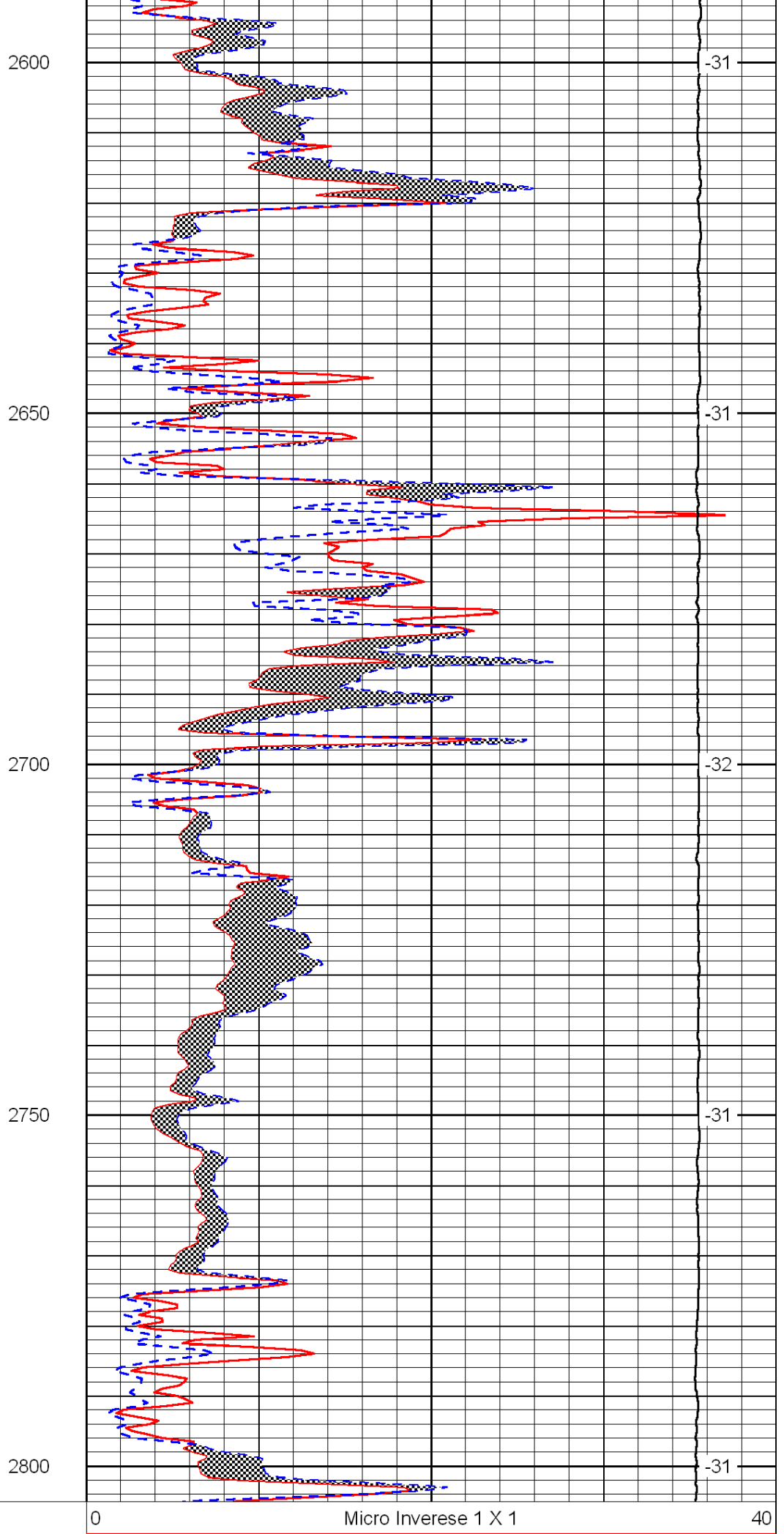
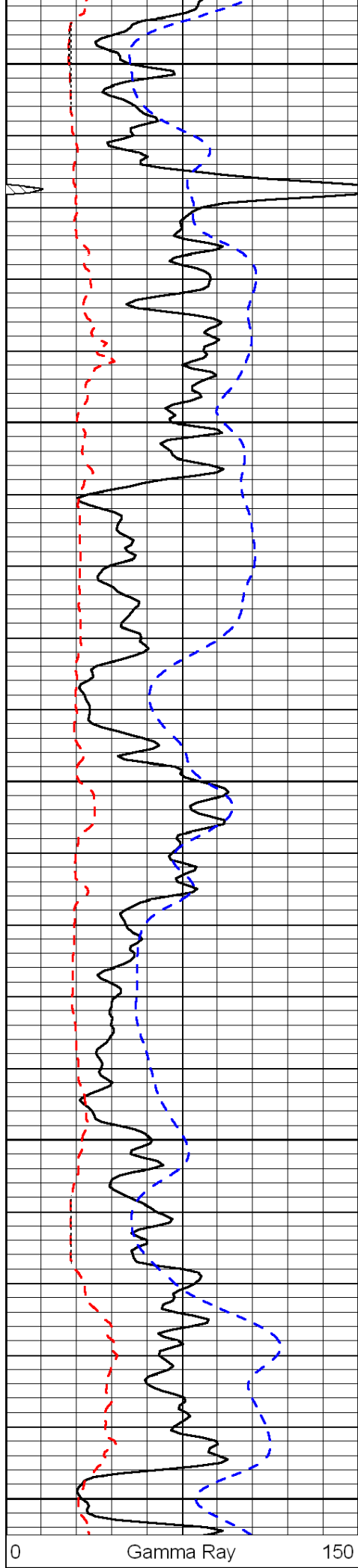


-31

-31

-31

-31



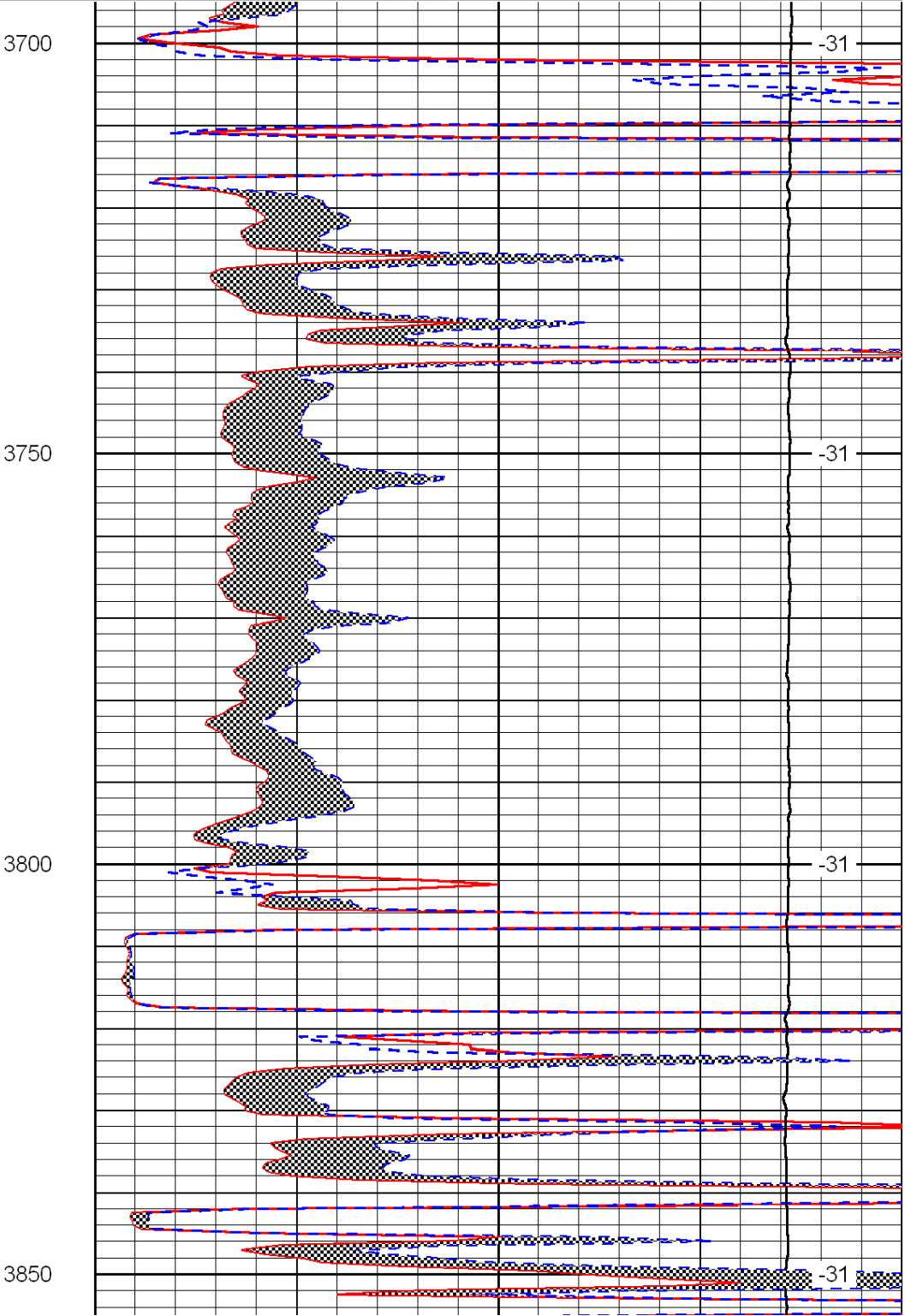
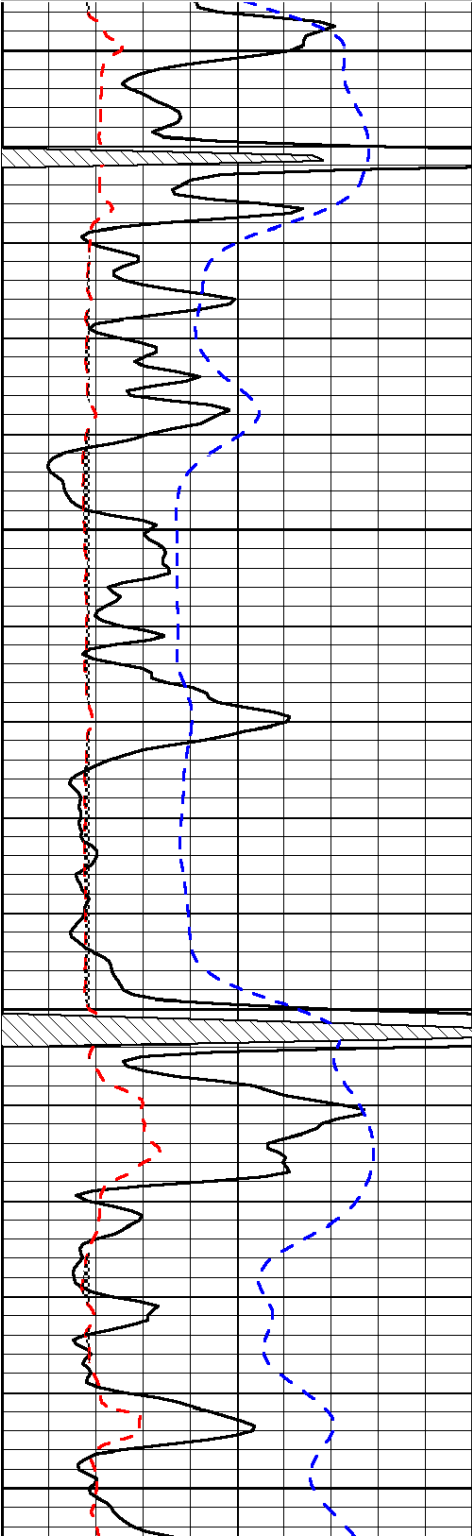
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-200	SP (mV)	0

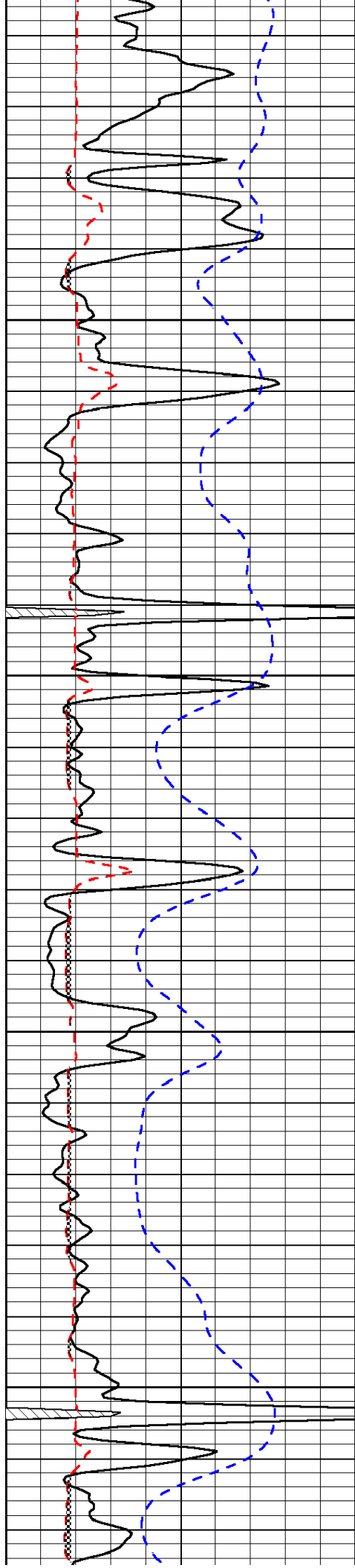
0	Micro Normal 2"	40
15000	Line Weight	0
		LSPD

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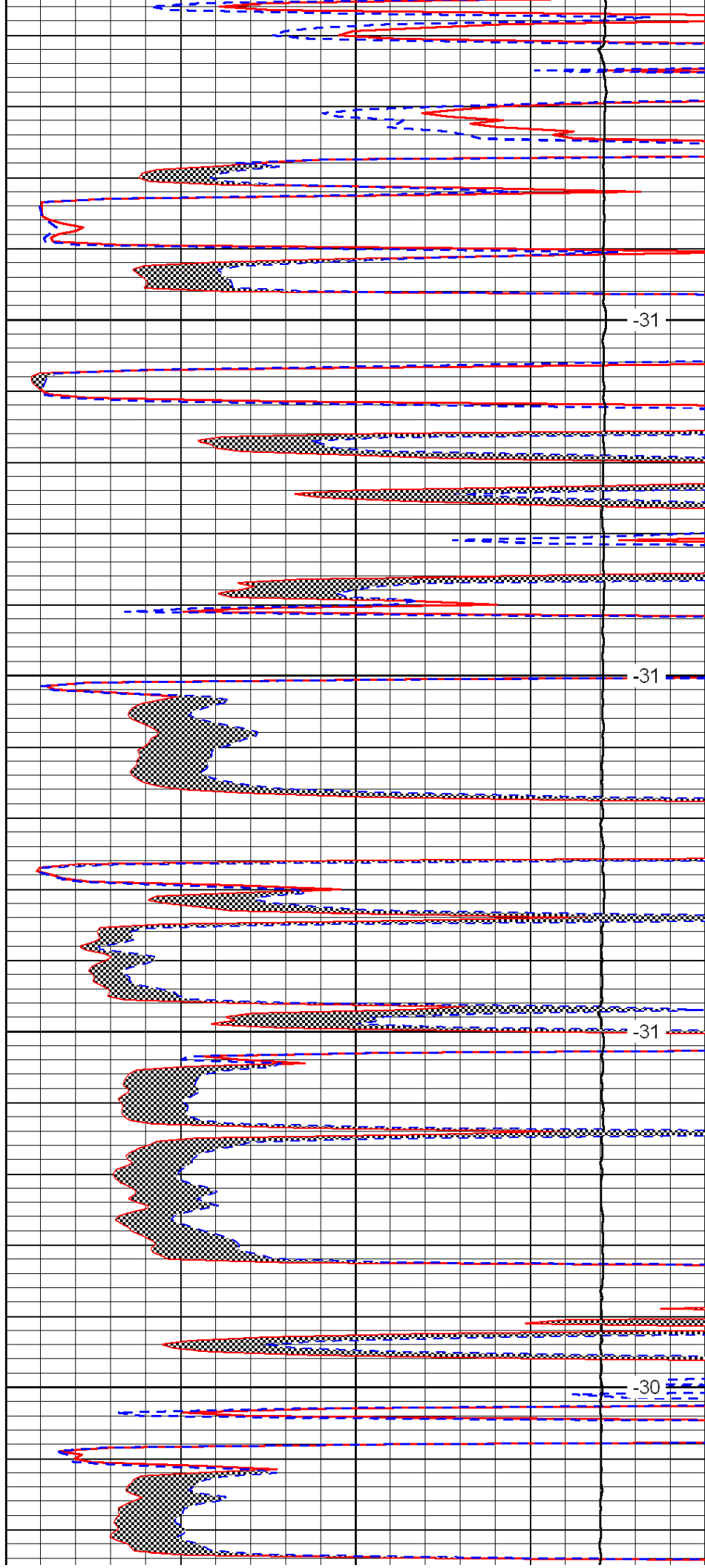


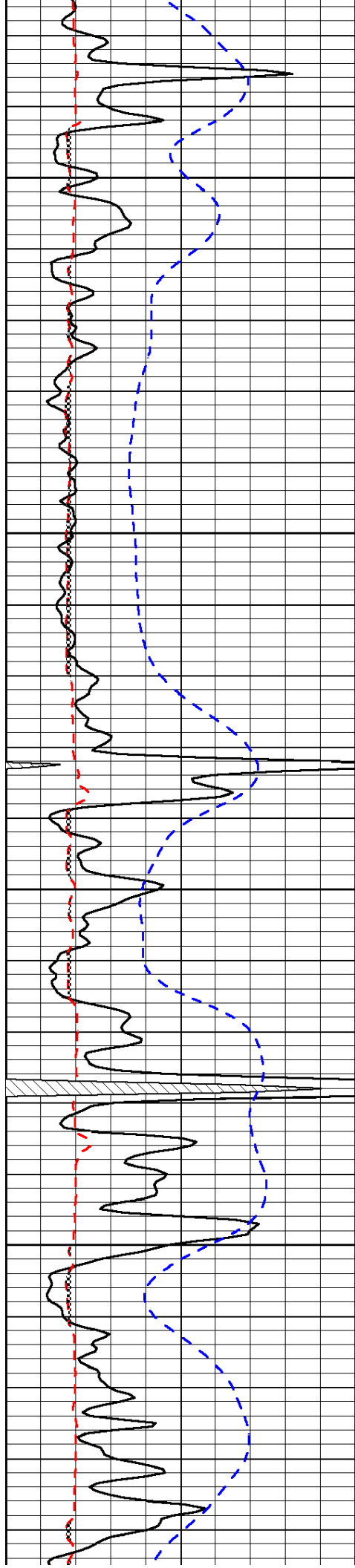
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3950

4000

4050



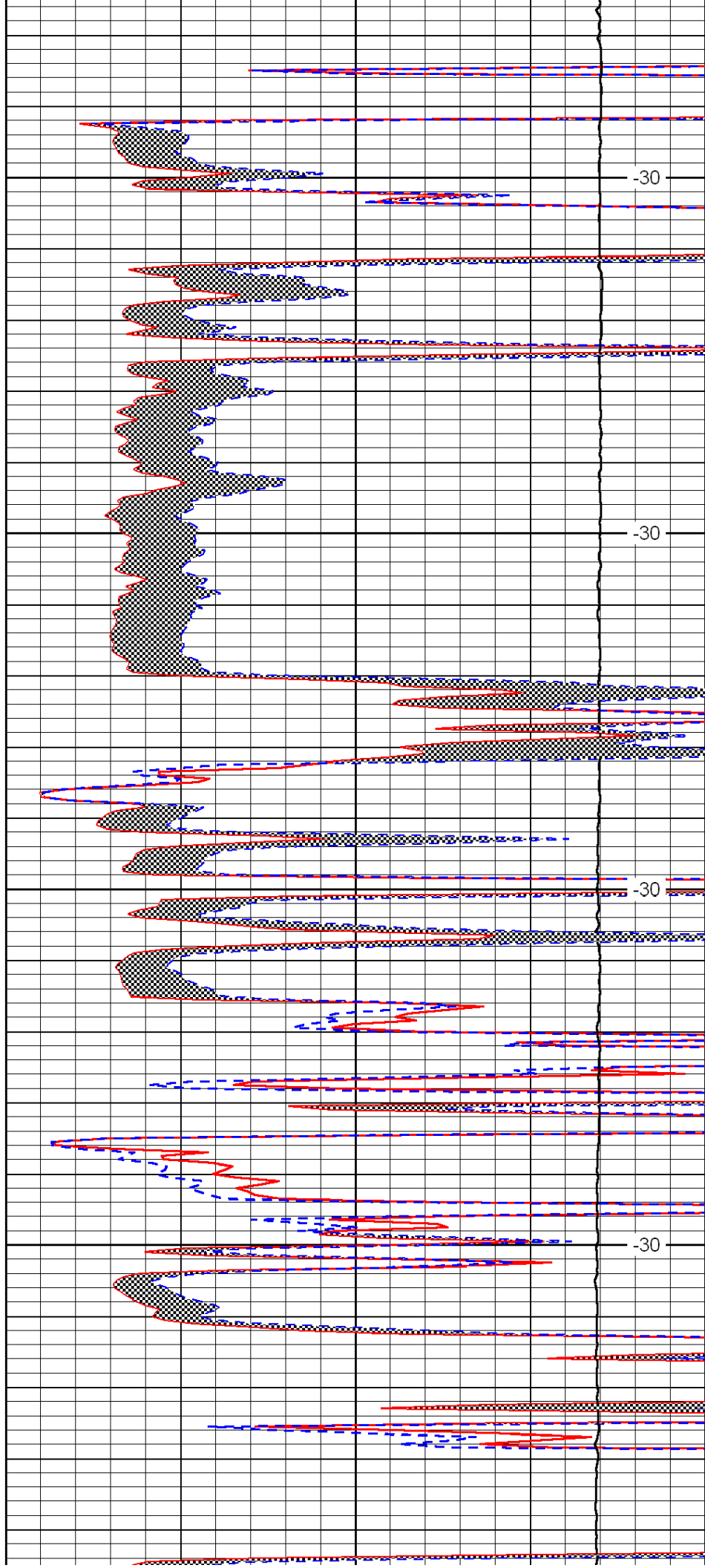


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4150

4200

4250

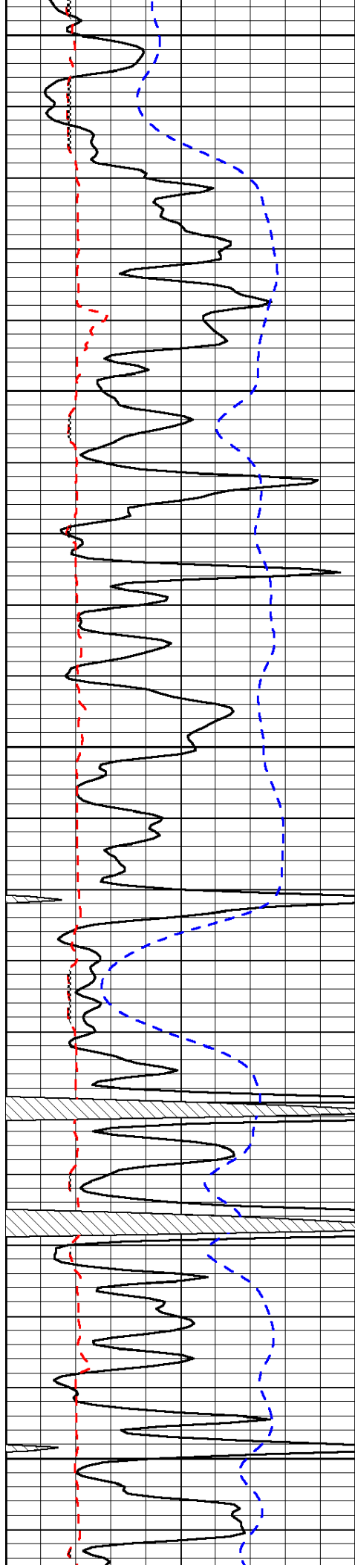


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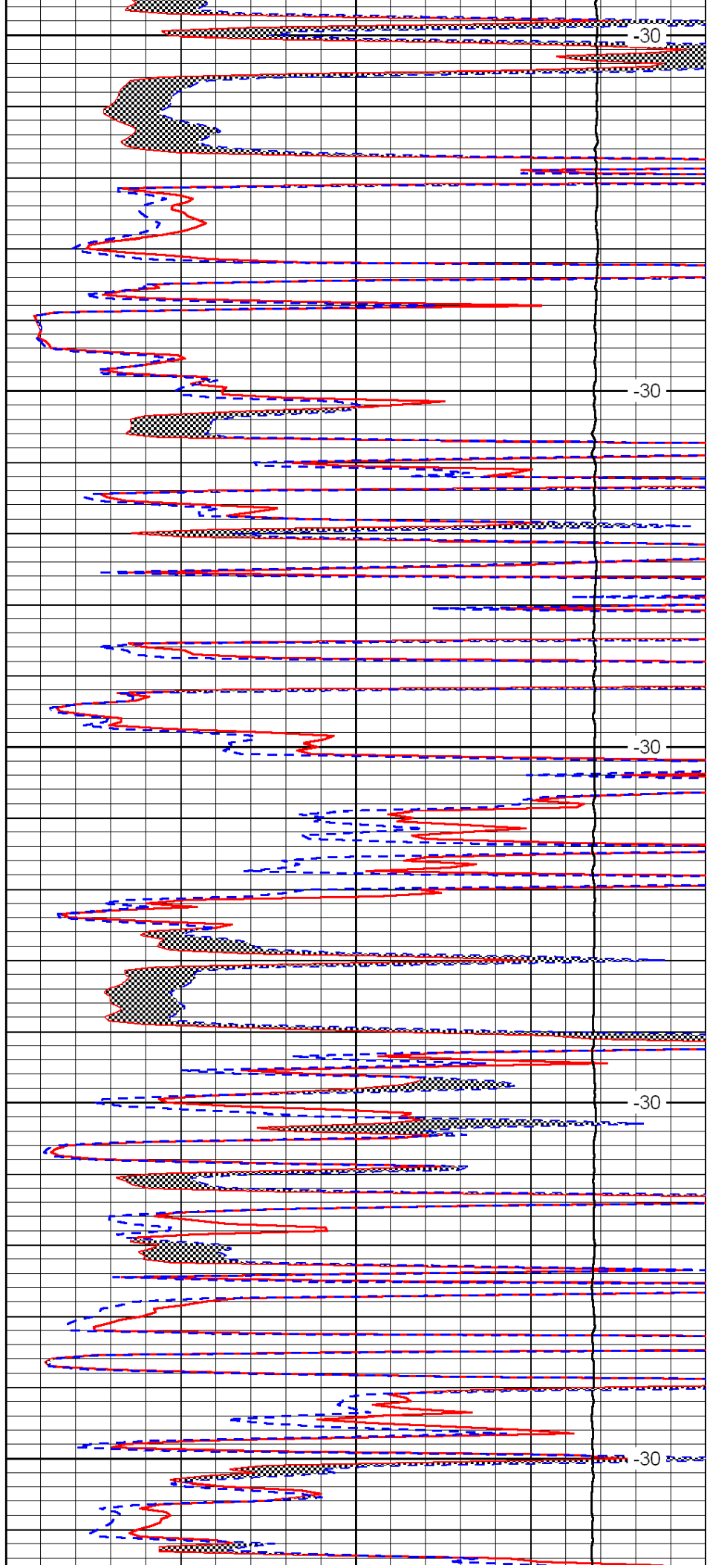
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4350

4400

4450

4500



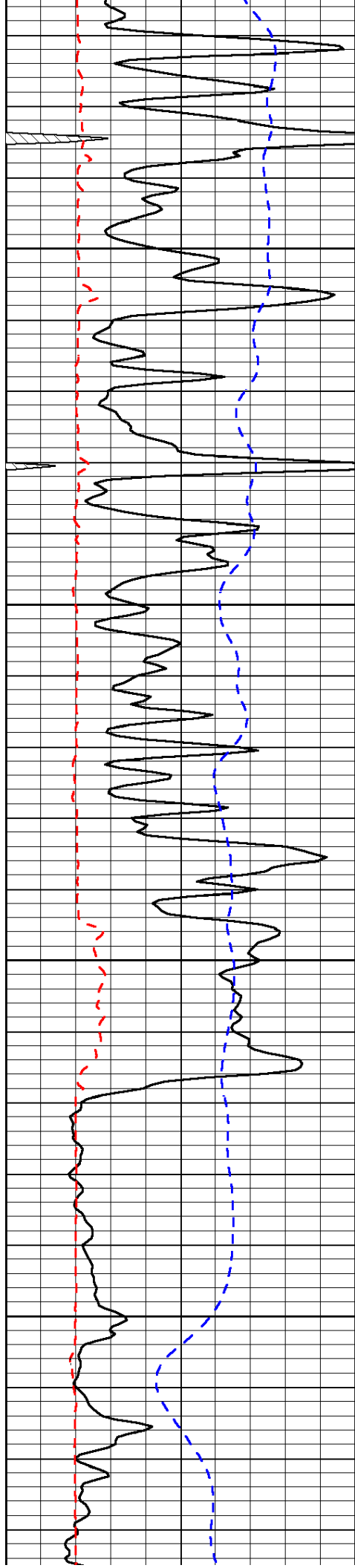
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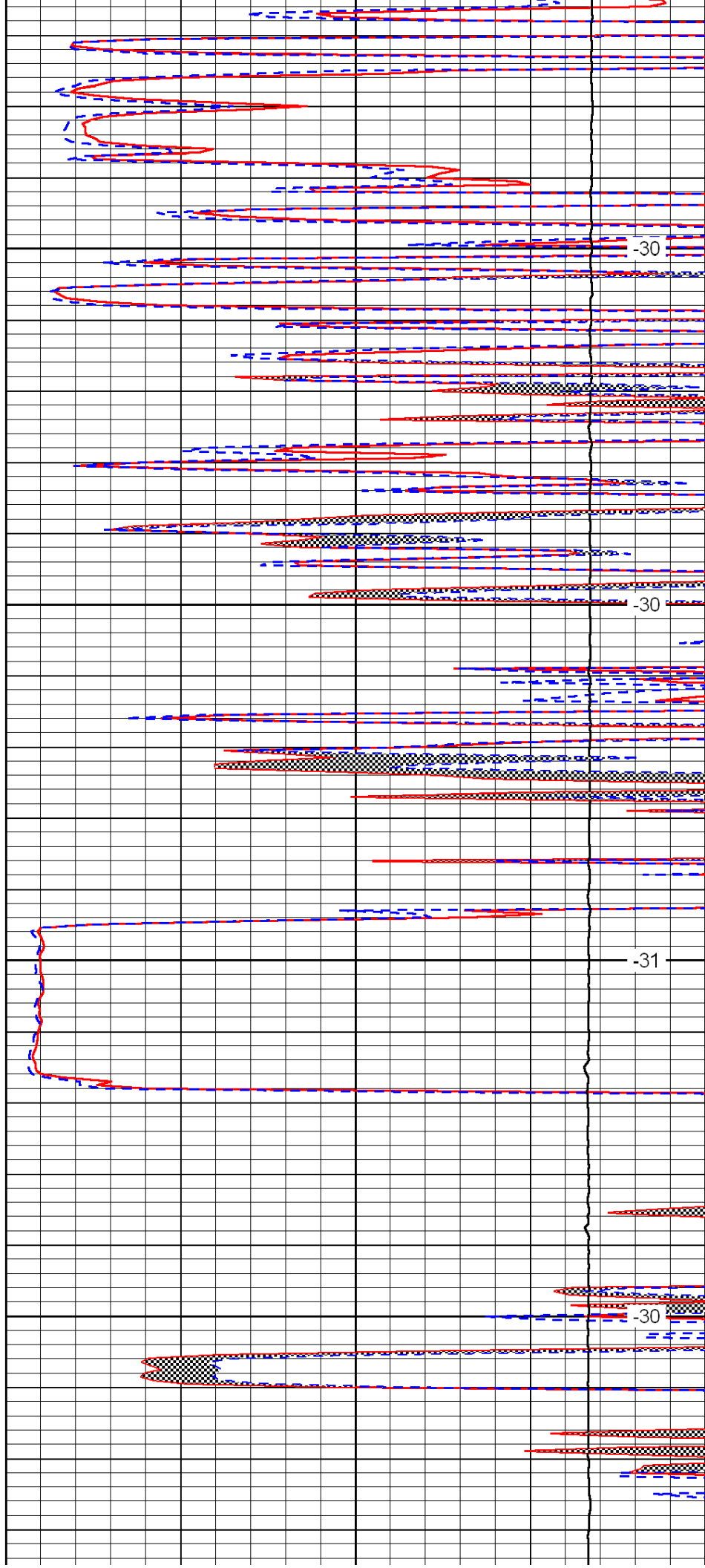


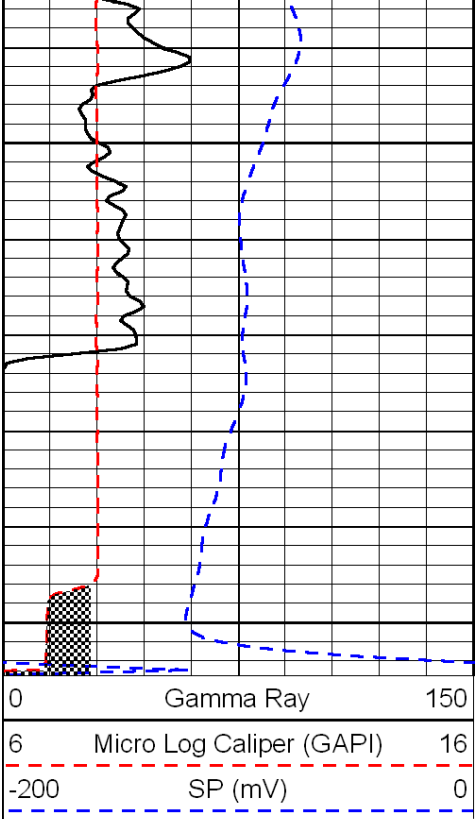
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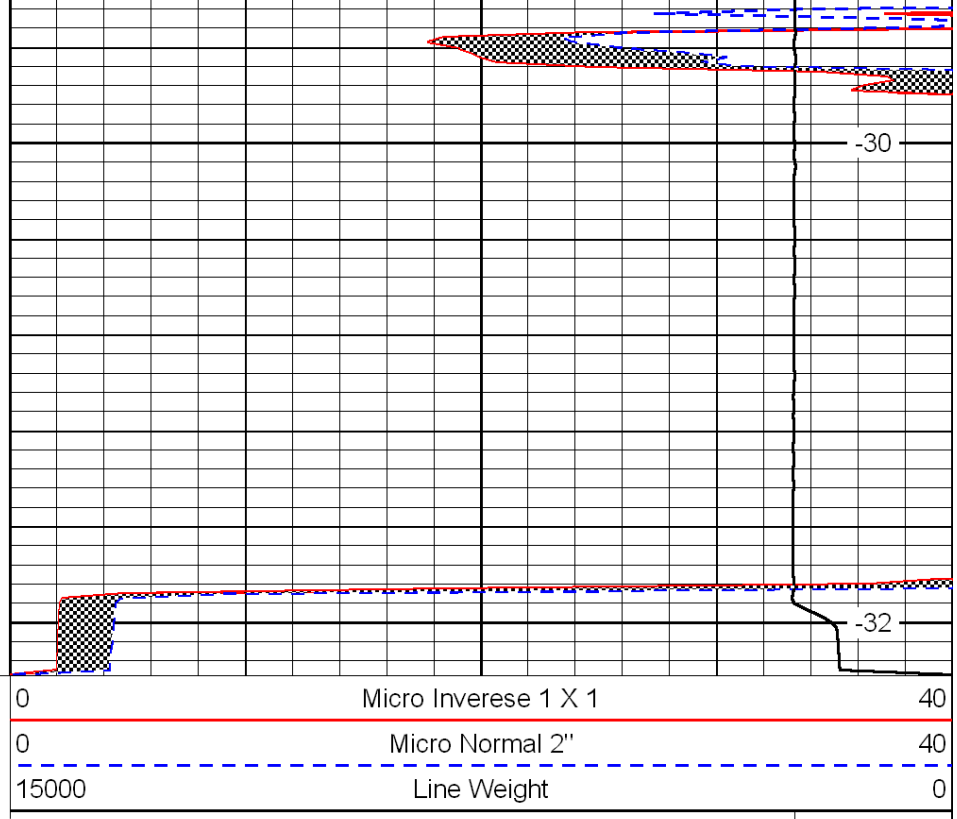
4700





4750

4800



LSPD