PIONEER

Pioneer Energy Services

Microresistivity Log

API No.

15-179-21,316-00-00

Company Dan Haffner

Well Haffner No. 1-18

Field

County Sheridan State Kansas

Location 1420' FSL & 1260' FWL

Sec: 18 Twp: 9 S Rge: 27 W

Other Services
CNL/CDL
DIL/BHCS

Elevation
K.B. 2764
D.F.
G.L. 2756

Permanent Datum Ground Level Elevation 2756
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	8/11/2012		
Run Number	Two		
Depth Driller	4500		
Depth Logger	4498		
Bottom Logged Interval	4497		
Top Log Interval	2900		
Casing Driller	8.625 @ 280		
Casing Logger	280		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	1200		
Density / Viscosity	9.3	55	
pH / Fluid Loss	10.0	7.8	
Source of Sample	Flowline		
Rm @ Meas. Temp	1.05 @ 82		
Rmf @ Meas. Temp	.79 @ 82		
Rmc @ Meas. Temp	1.42 @ 82		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.71 @ 121		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	121		
Equipment Number	108		
Location	Hays		
Recorded By	D.Kerr		
Witnessed By	Jeff Lawler		

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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.pioneeres.com
785 625 3858

Hoxie KS, 6 South to 70 S RD,
3 1/4 East, North Into

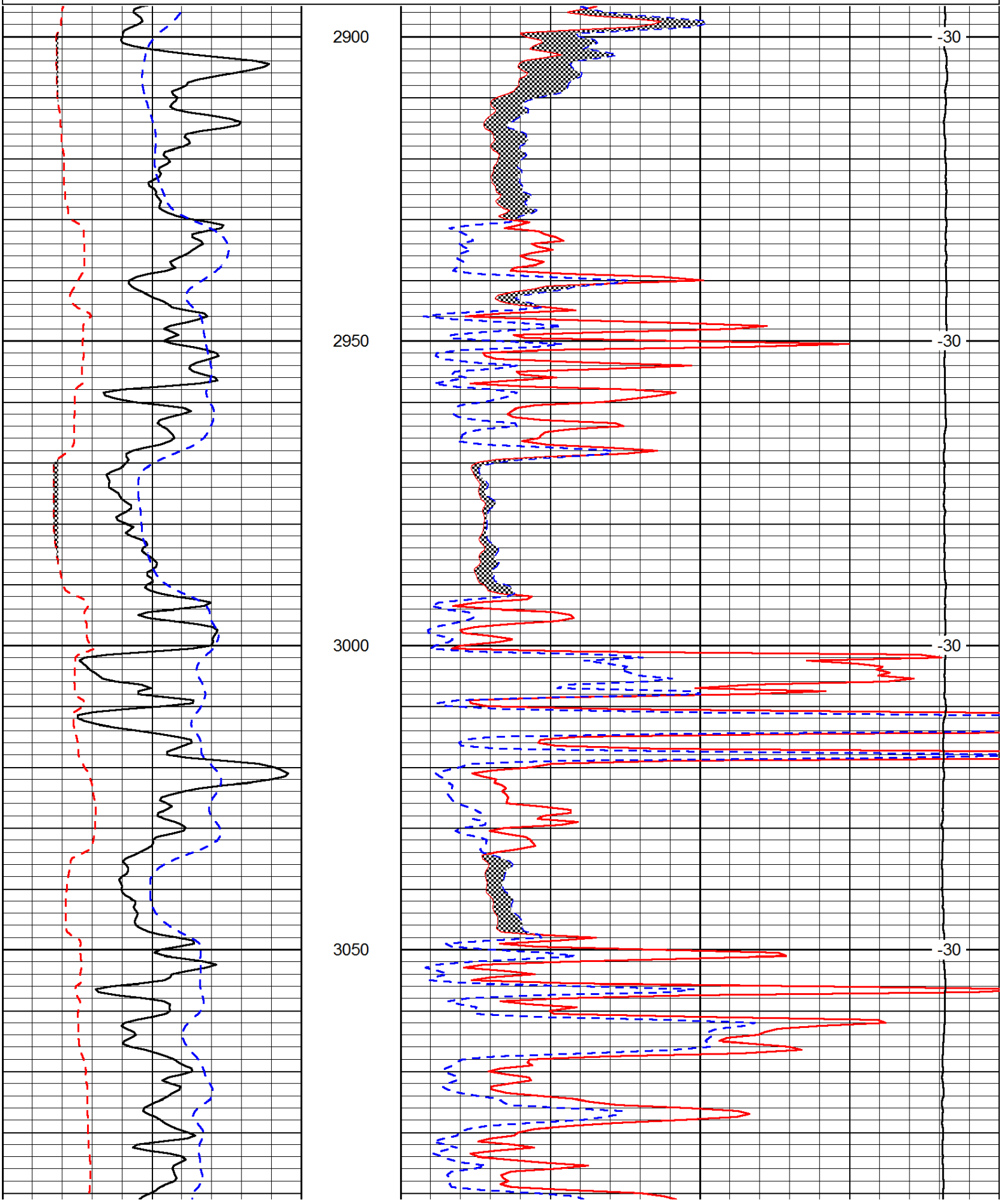
Database File: c:\warrior\data\dan haffner_haffner no. 1-18\danhaffner_hd.db
Dataset Pathname: DIL/dhstk
Presentation Format: micro
Dataset Creation: Sun Aug 12 11:58:21 2012
Charted by: Depth in Feet scaled 1:240

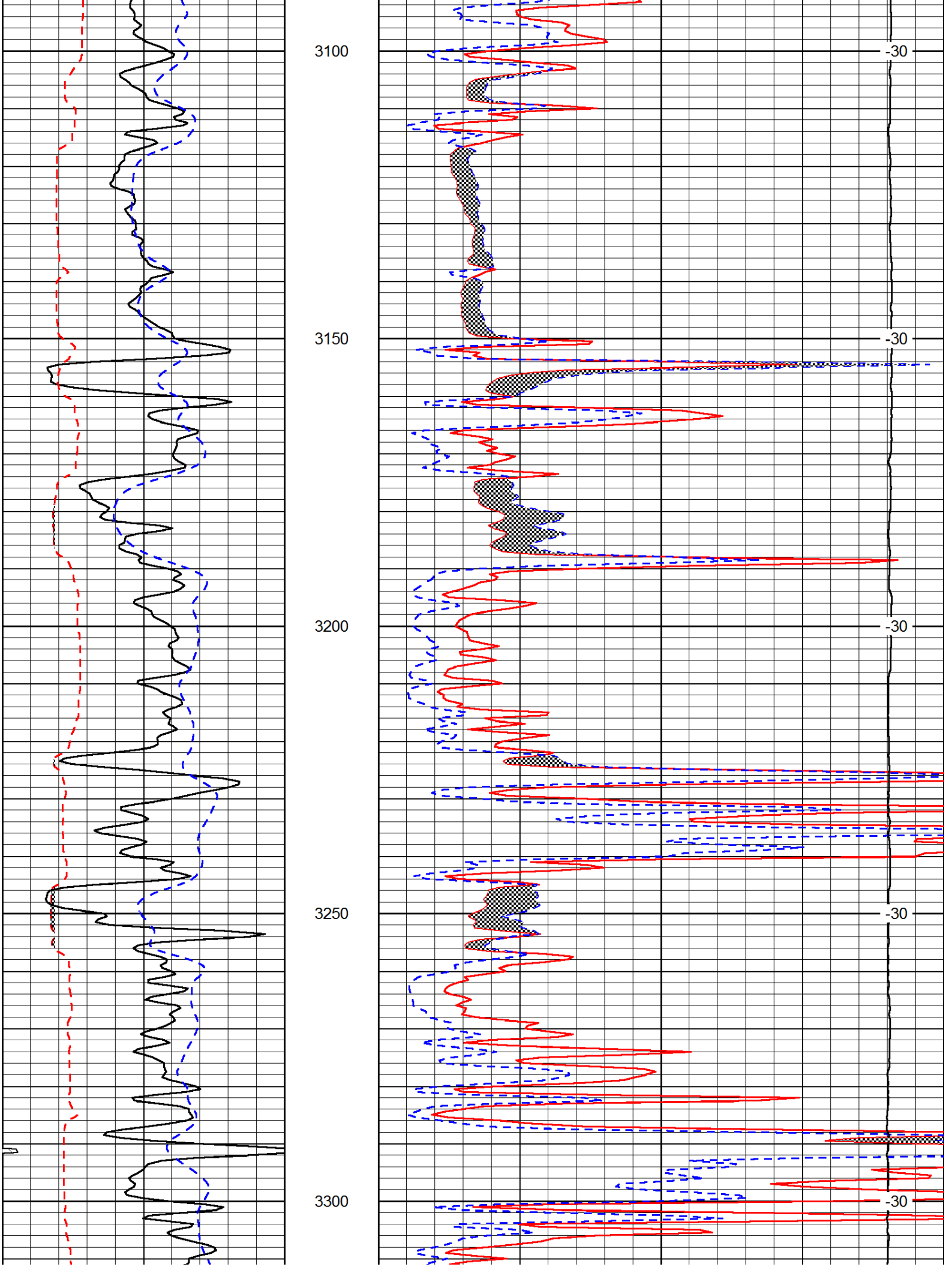
Charted by: Depth in Feet scaled 1:240

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

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

LSPD

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3300
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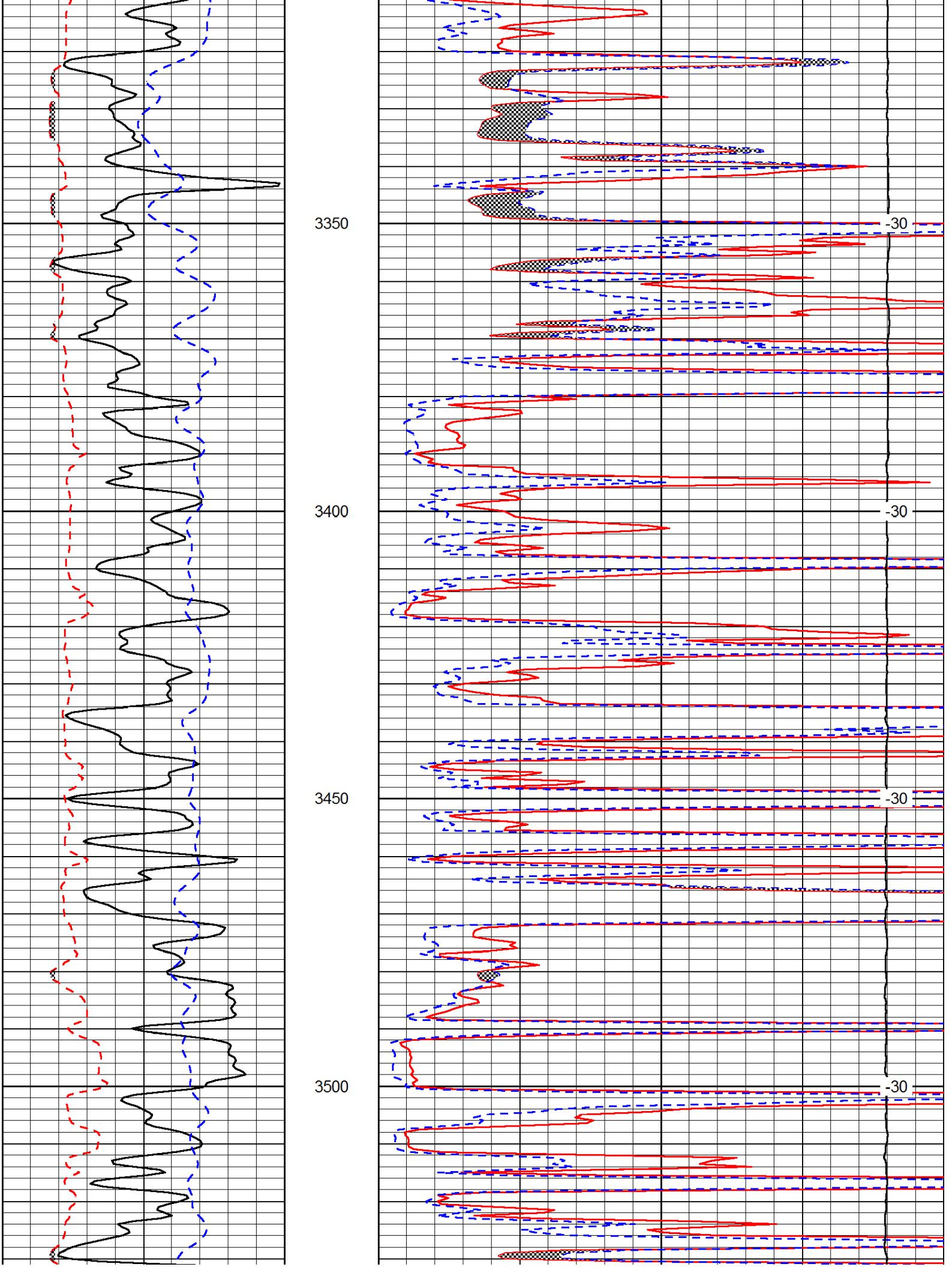
-30
-30
-30
-30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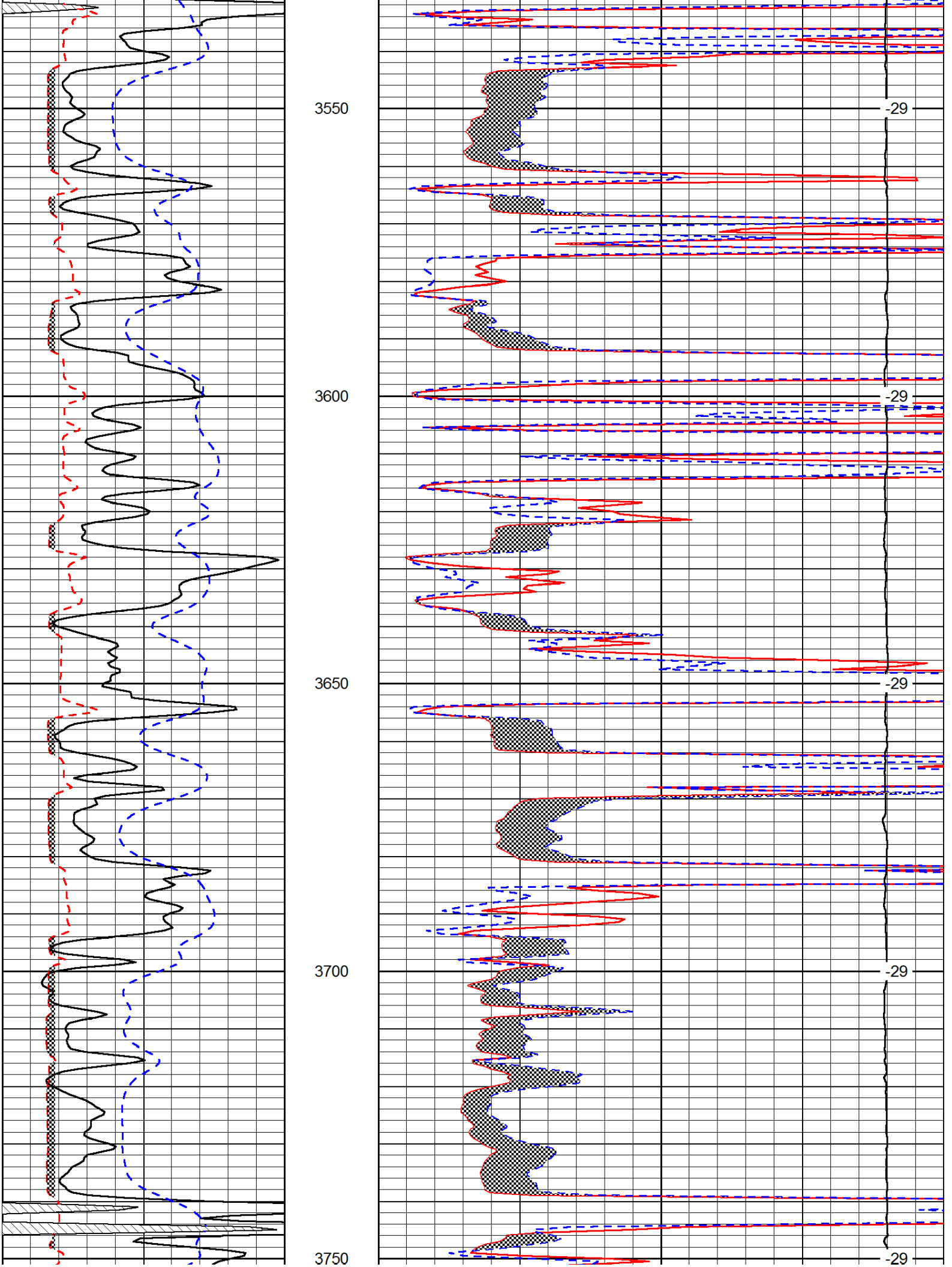
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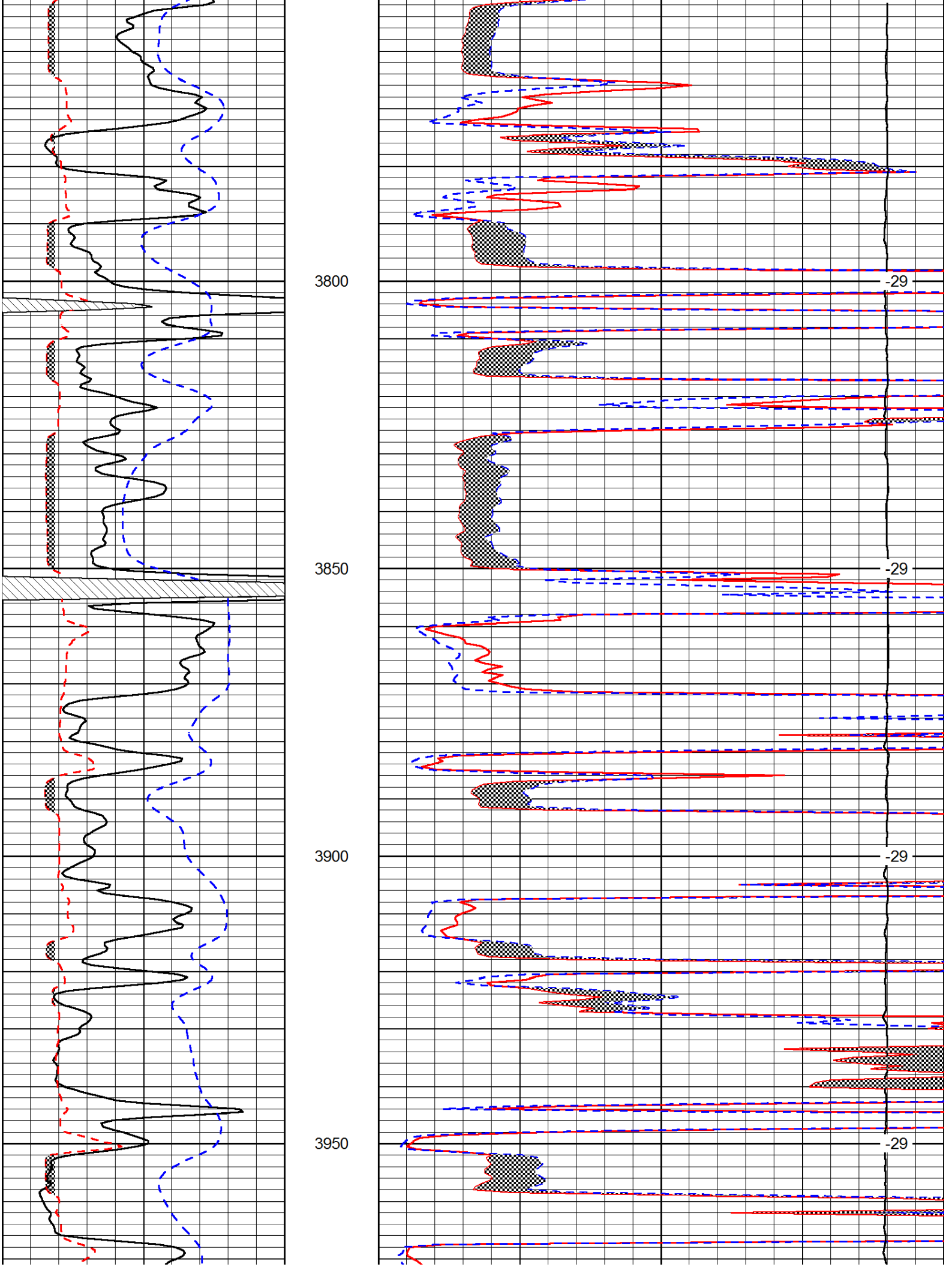
-29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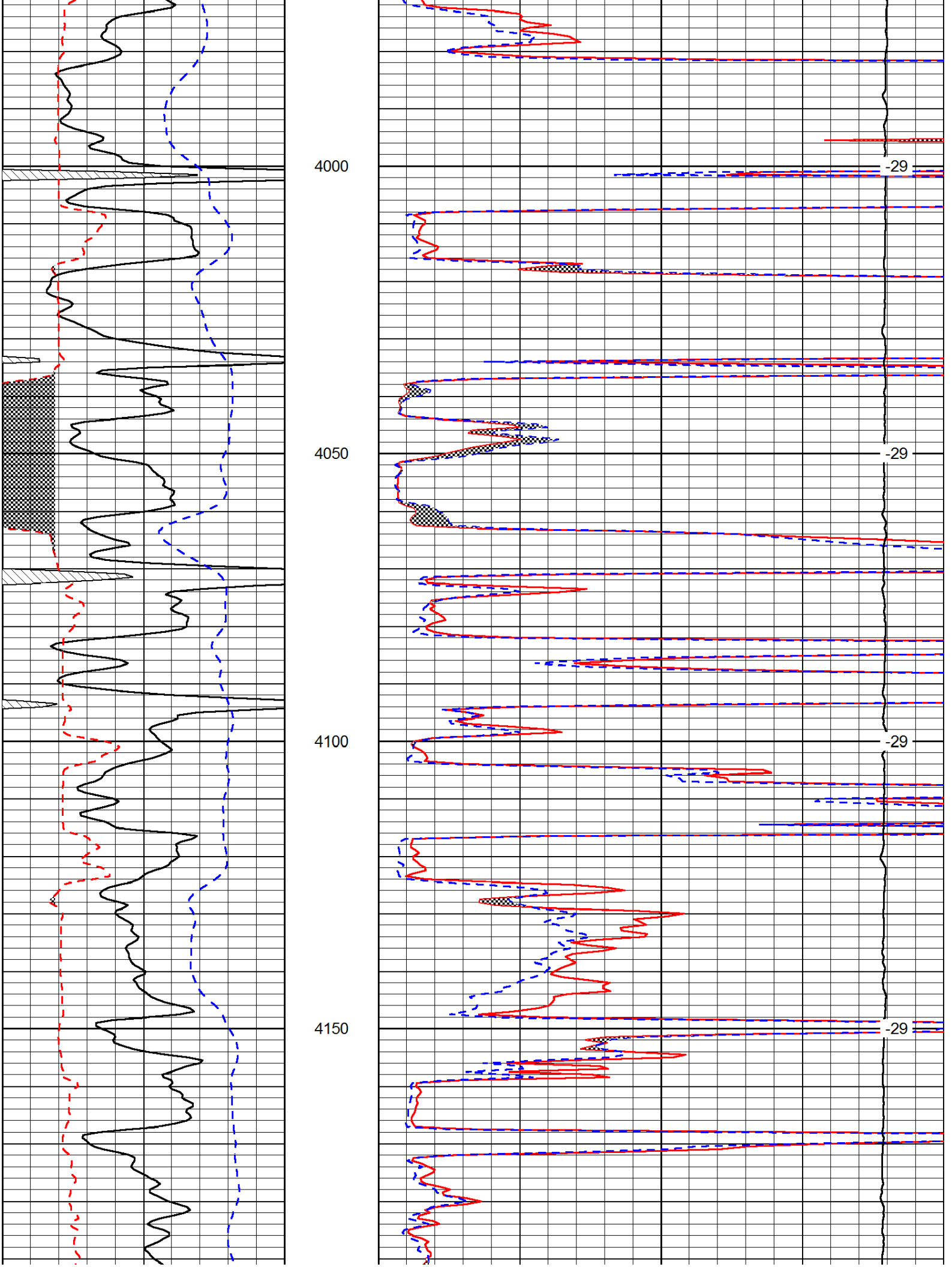
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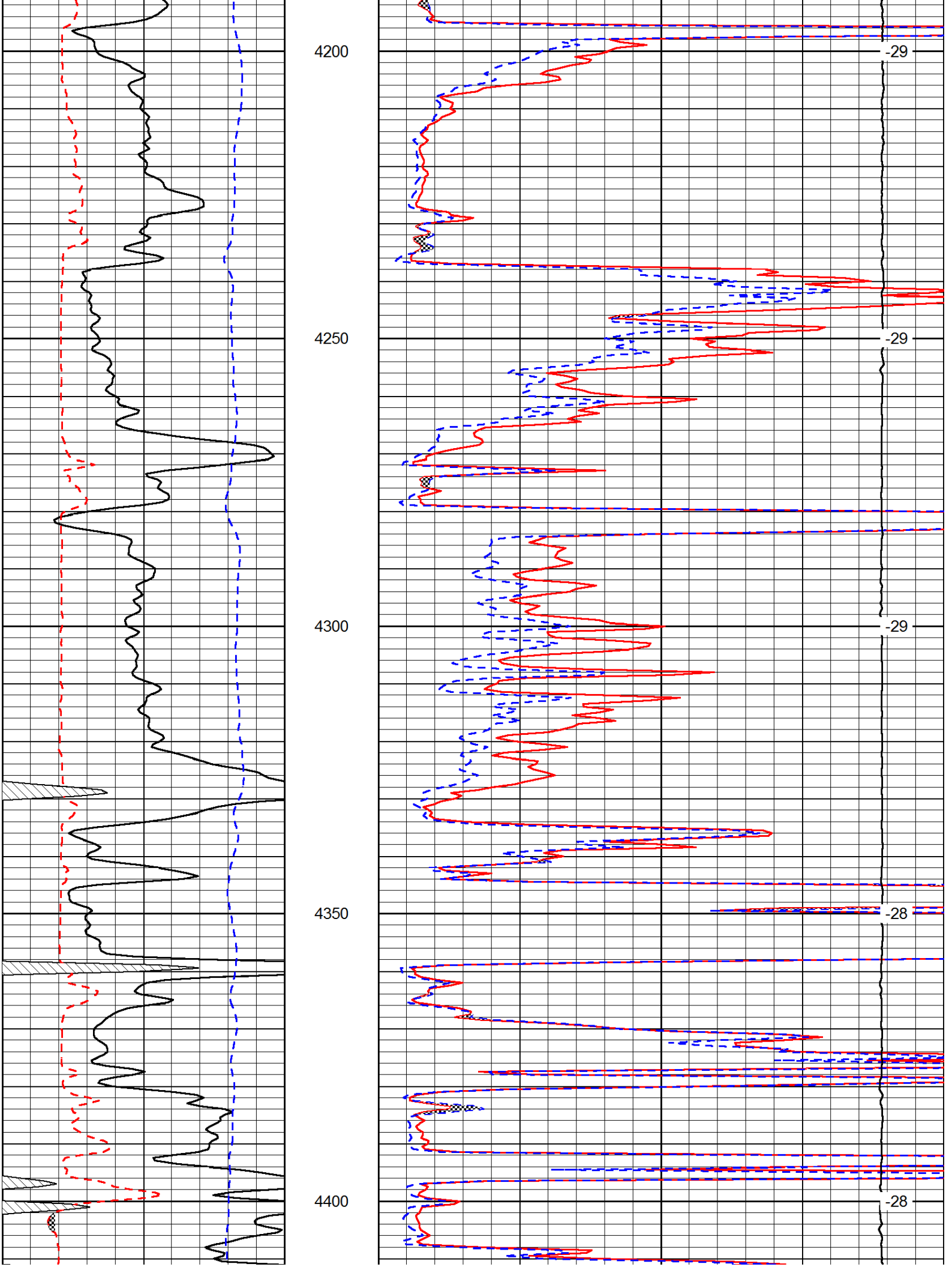
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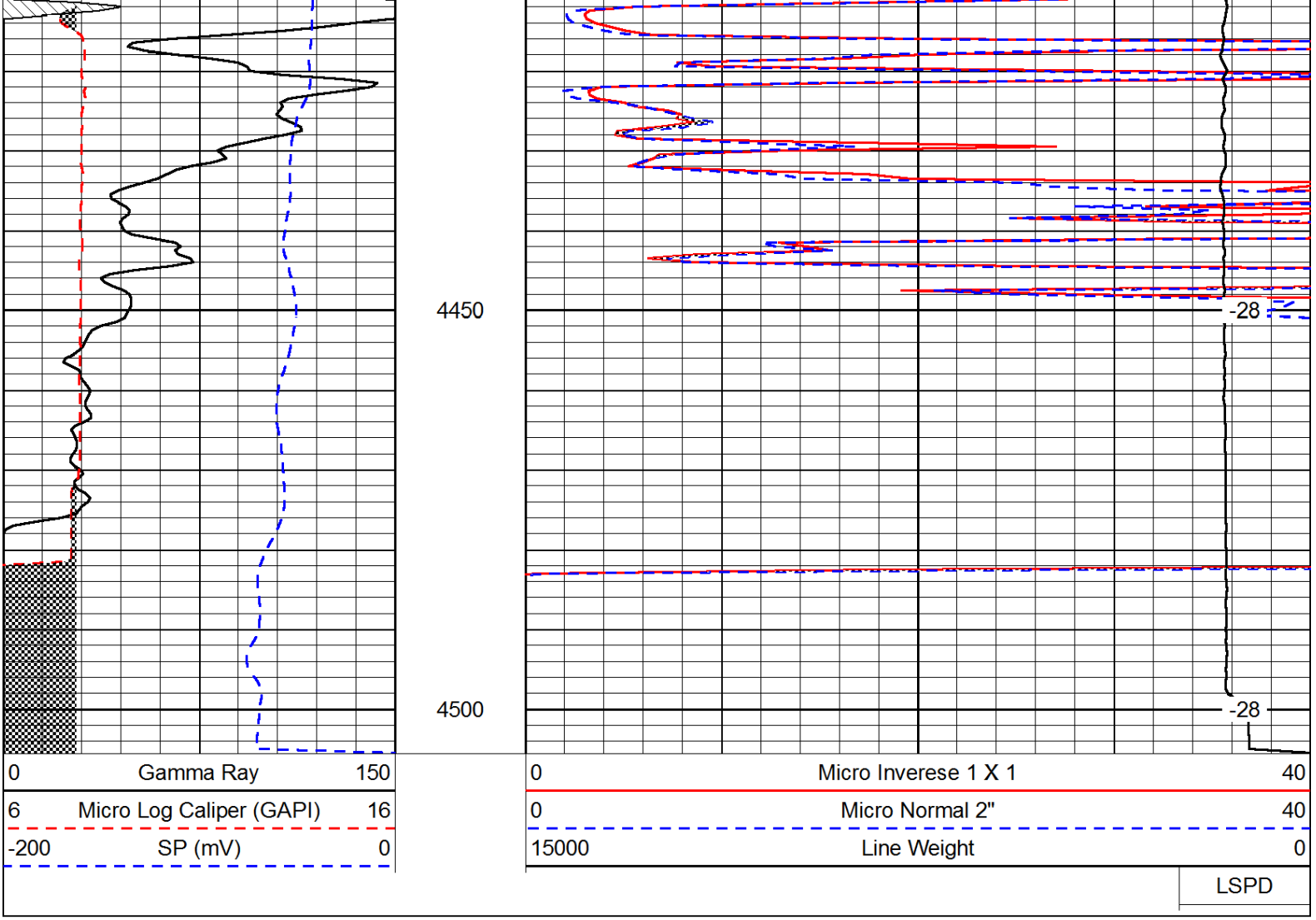
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0 Micro Inverese 1 X 1 40
0 Micro Normal 2" 40
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