PIONEER

Pioneer Energy Services

Microresistivity Log

API No. 15-203-20,234-00-00

Company Raymond Oil Company, Inc.

Well Helen Wells Trust #2

Field Wildcat

County Wichita State Kansas

Location E/2 SE NW NW
990' FNL & 1255' FWL
Sec: 18 Twp: 20S Rge: 35W

Other Services
CNL/CDL
DIL

Elevation
K.B. 3166
D.F.
G.L. 3155

Permanent Datum Ground Level Elevation 3155
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	10/7/2013		
Run Number	Two		
Depth Driller	5052		
Depth Logger	5054		
Bottom Logged Interval	5053		
Top Log Interval	3450		
Casing Driller	8.625 @ 267		
Casing Logger	265		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	6000		
Density / Viscosity	9.5 54		
pH / Fluid Loss	10.5 9.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.57 @ 82		
Rmf @ Meas. Temp	0.43 @ 82		
Rmc @ Meas. Temp	0.77 @ 82		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.37 @ 127		
Operating Rig Time	4 1/2 Hours		
Max Rec. Temp. F	127		
Equipment Number	15		
Location	Hays		
Recorded By	D.Kerr		
Witnessed By	Max Lovely		

<<< Fold Here >>>

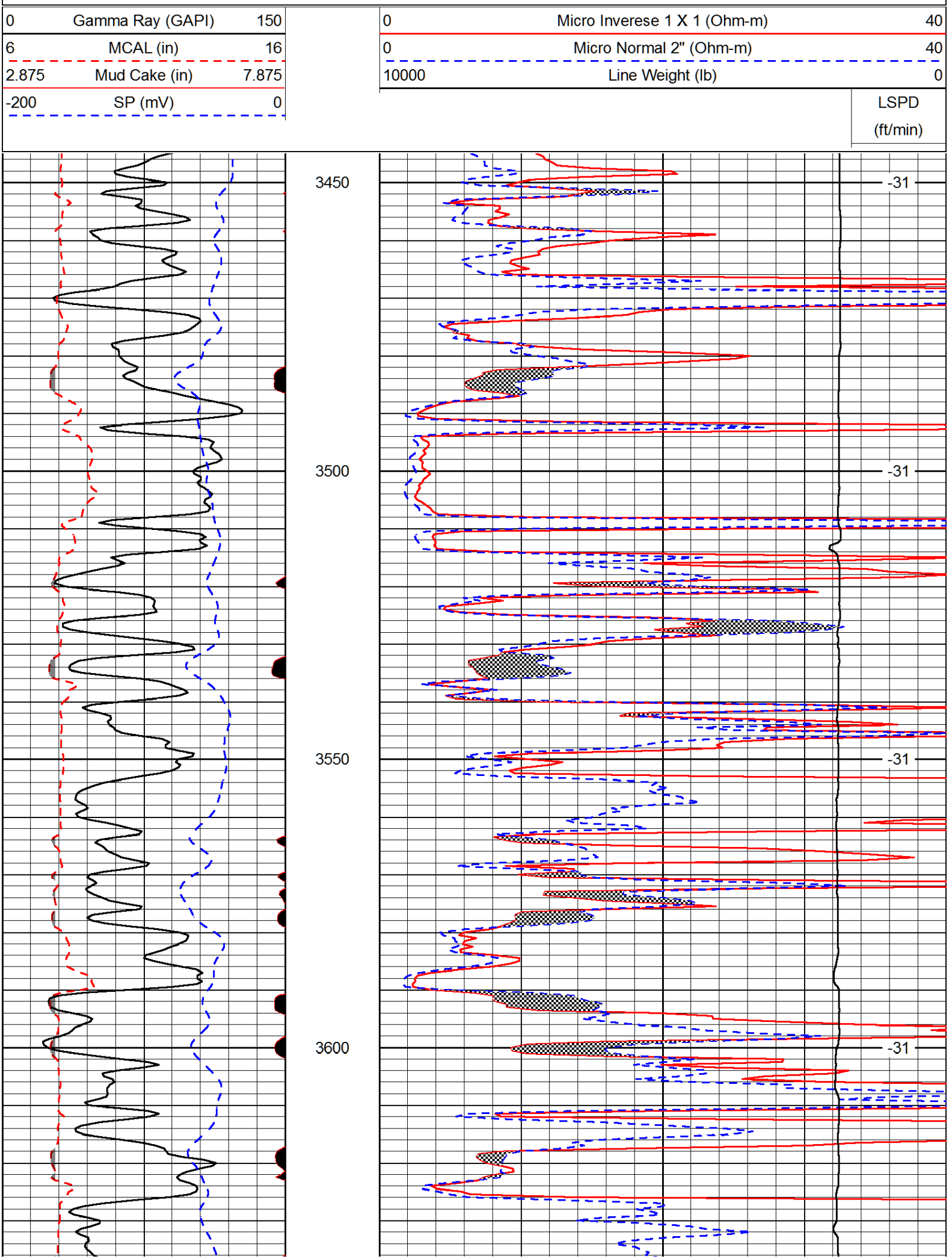
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

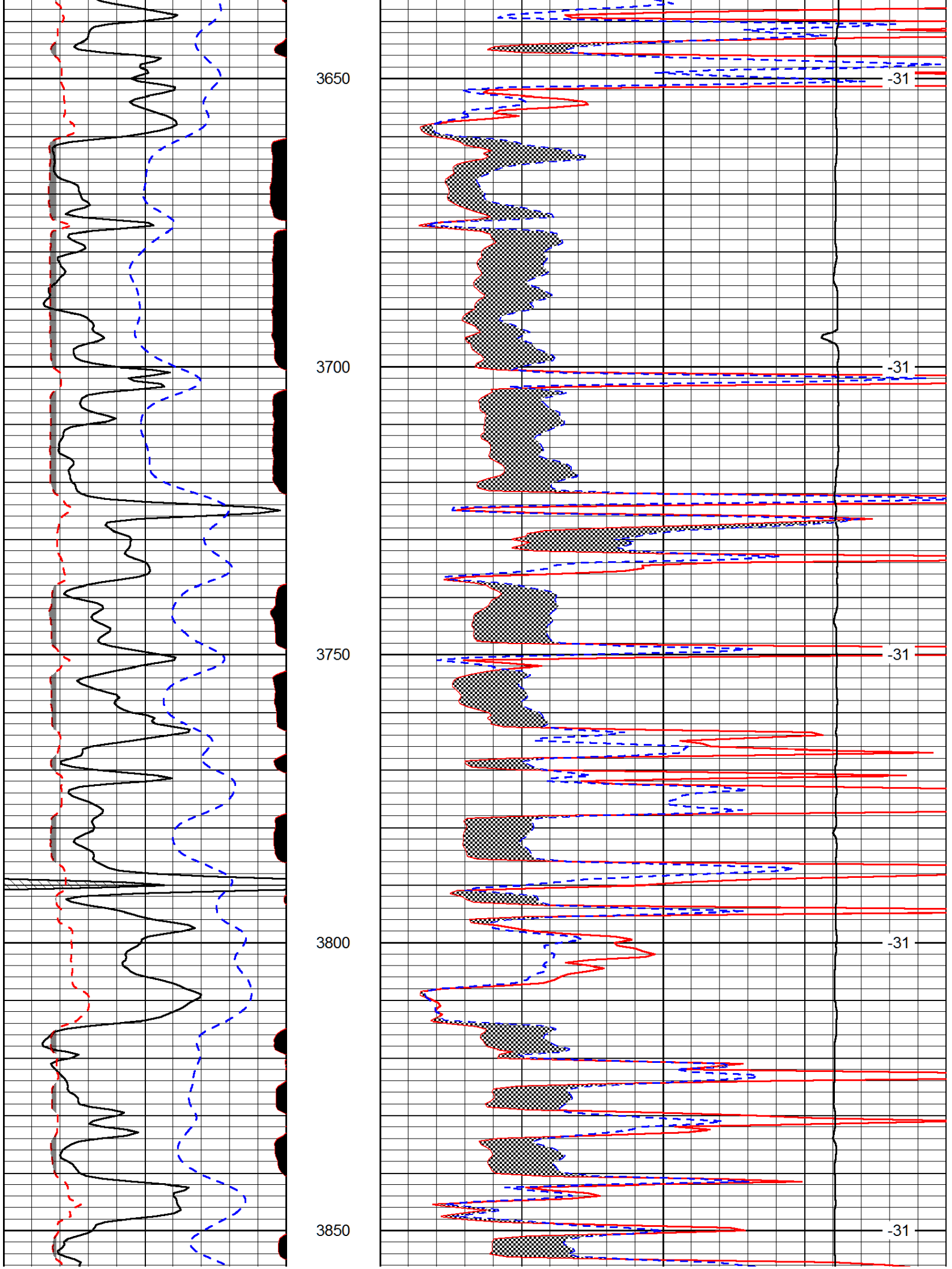
Comments

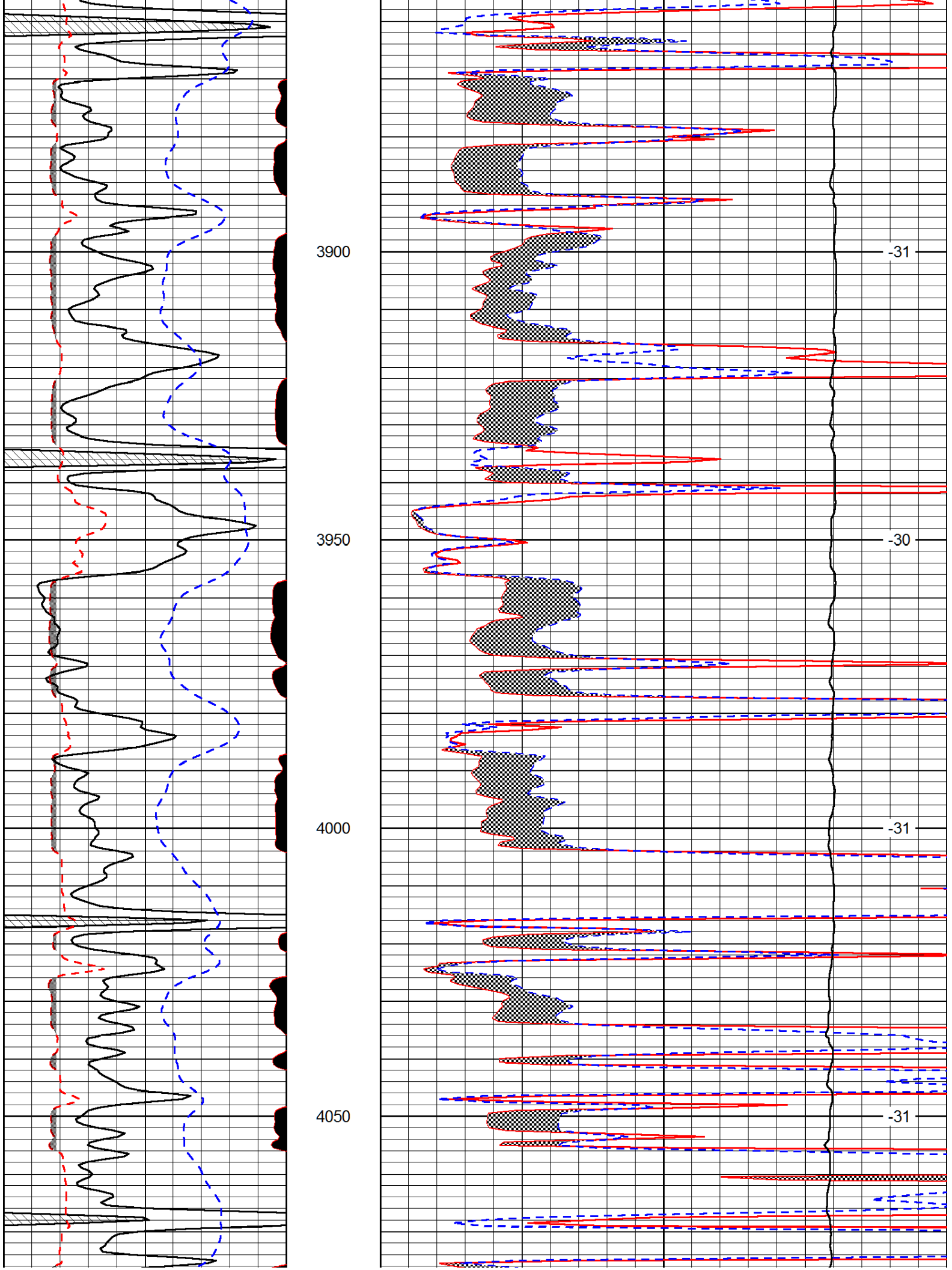
Thank you for using Log-Tech, Inc.
(785) 625-3858

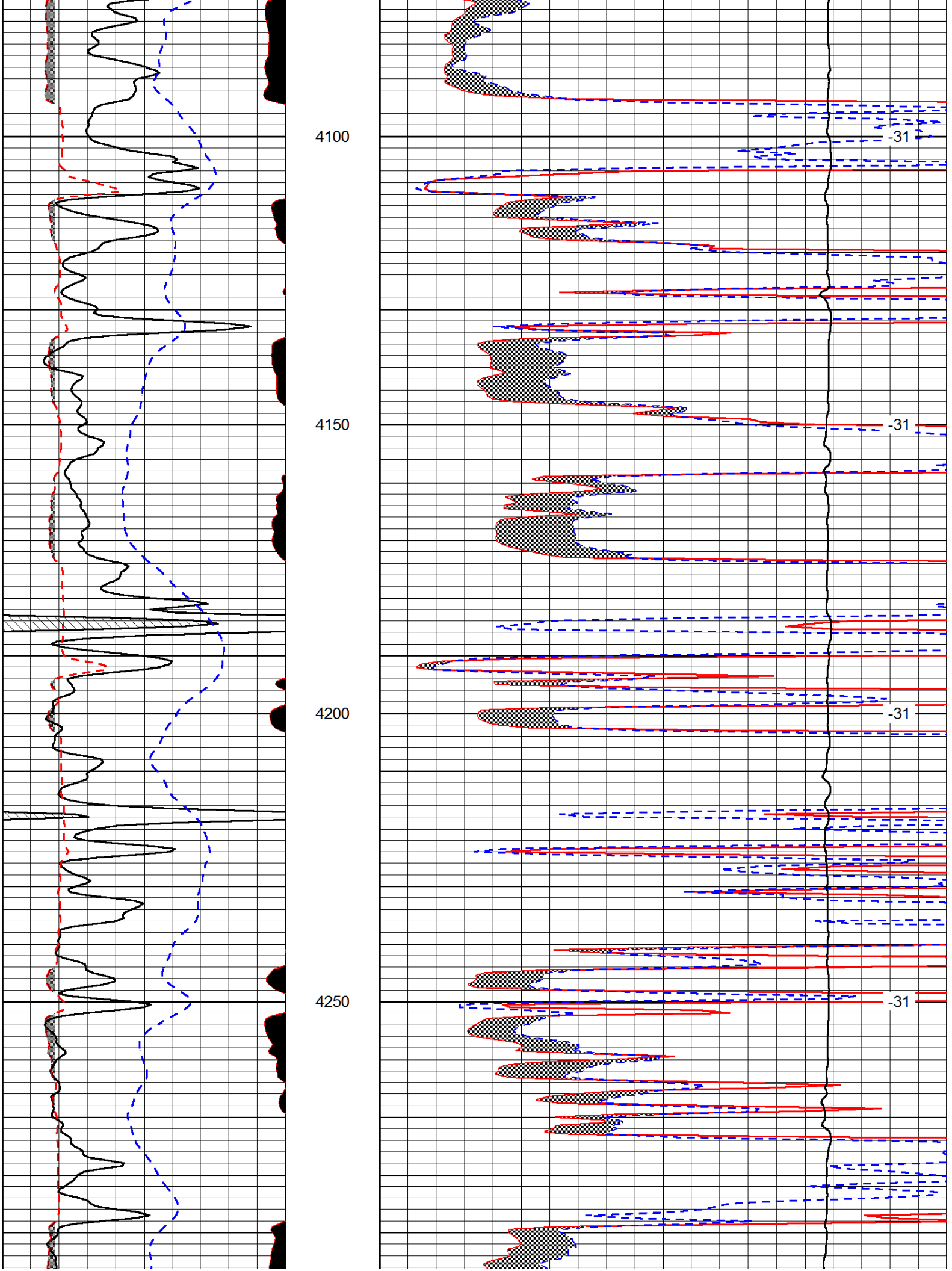
Marienthal KS, South to AA RD,
1/2 West, South Into

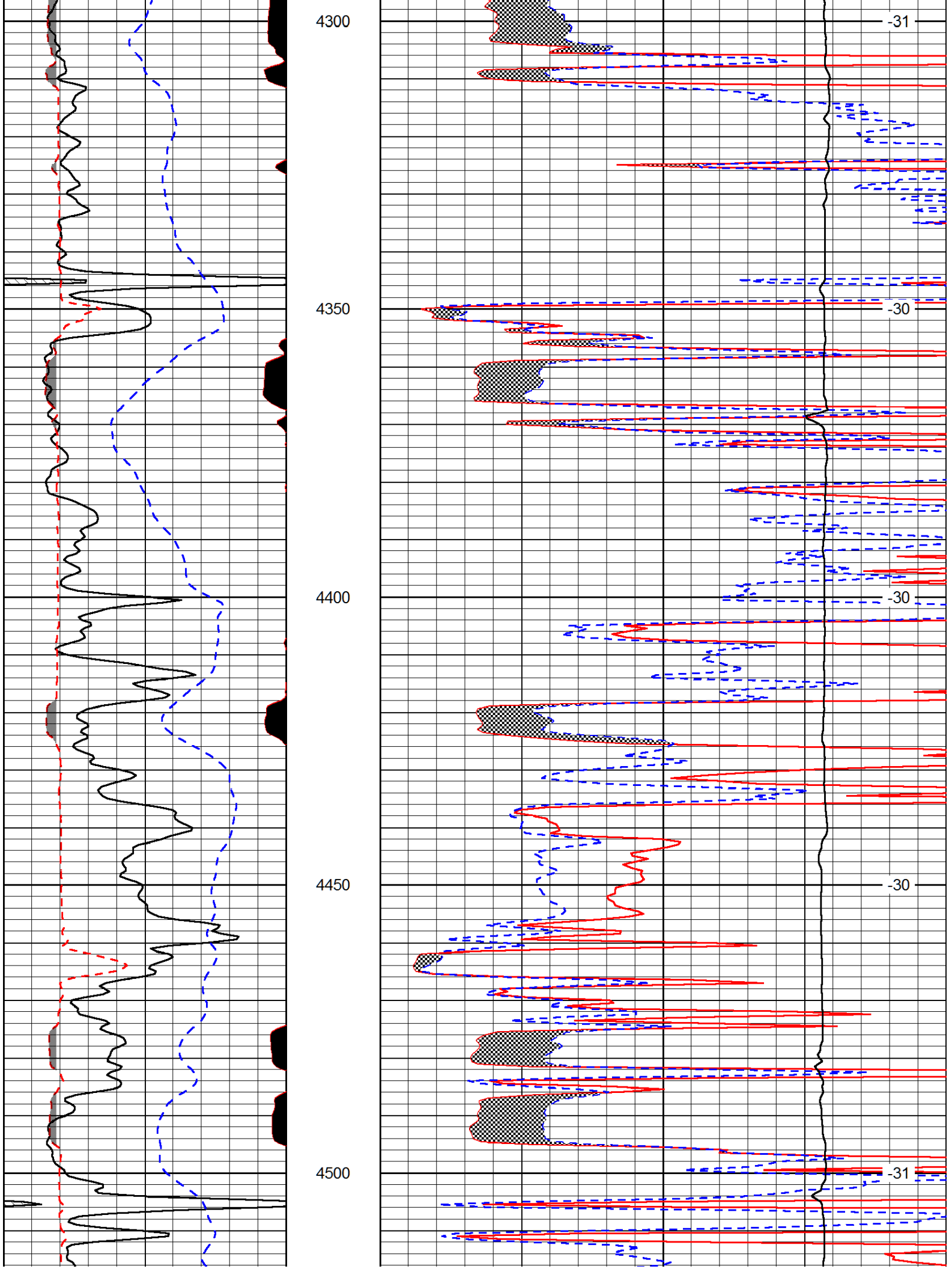
Database File:	raymond_helenwells_2hd.db
Dataset Pathname:	DIL/raystk
Presentation Format:	micro
Dataset Creation:	Mon Oct 07 18:57:41 2013
Charted by:	Depth in Feet scaled 1:240

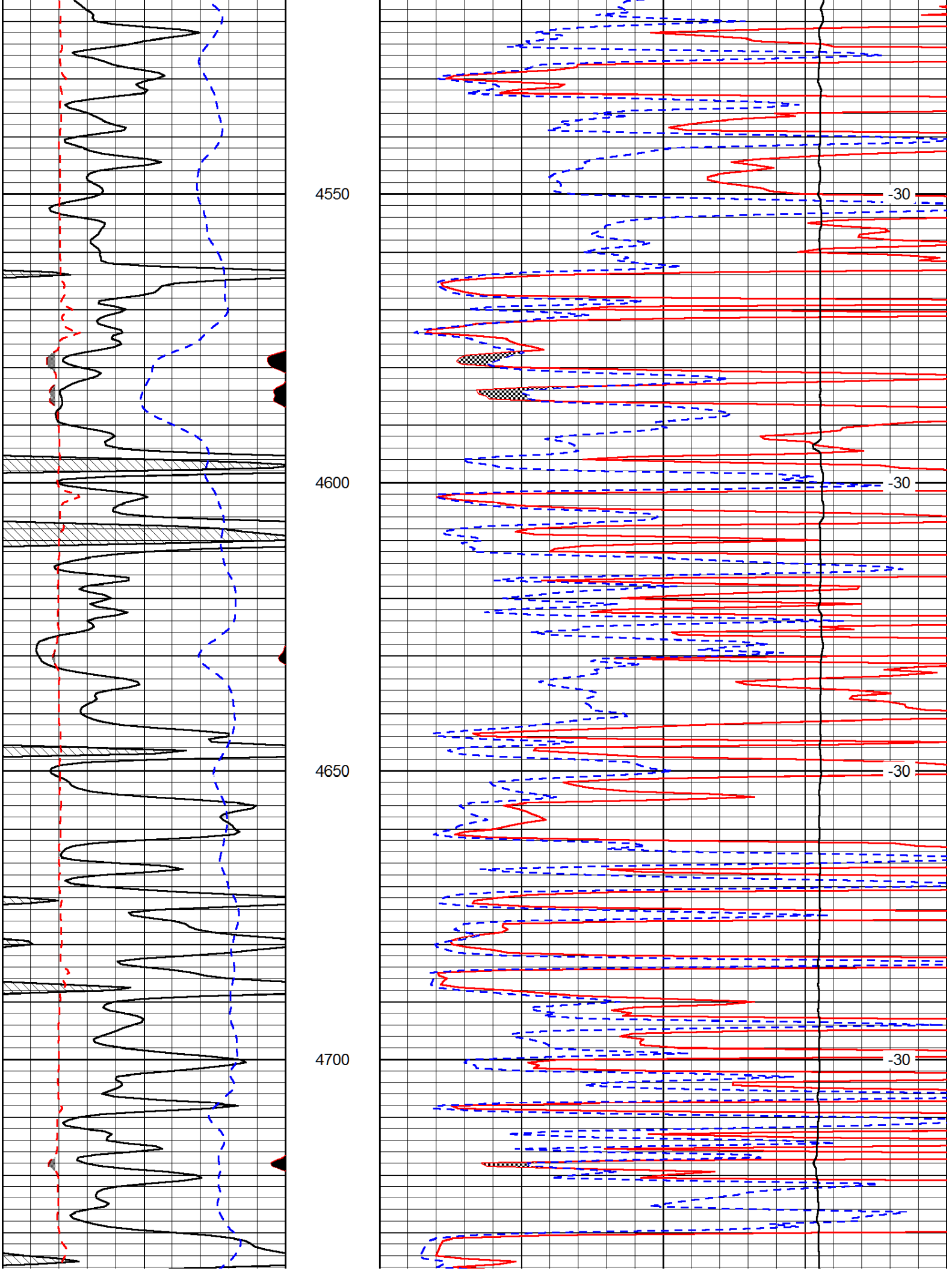

0 Gamma Ray (GAPI) 150
6 MCAL (in) 16
2.875 Mud Cake (in) 7.875
-200 SP (mV) 0
0 Micro Inverese 1 X 1 (Ohm-m) 40
0 Micro Normal 2" (Ohm-m) 40
10000 Line Weight (lb) 0
LSPD (ft/min)
3450
3500
3550
3600
-31
-31
-31
-31

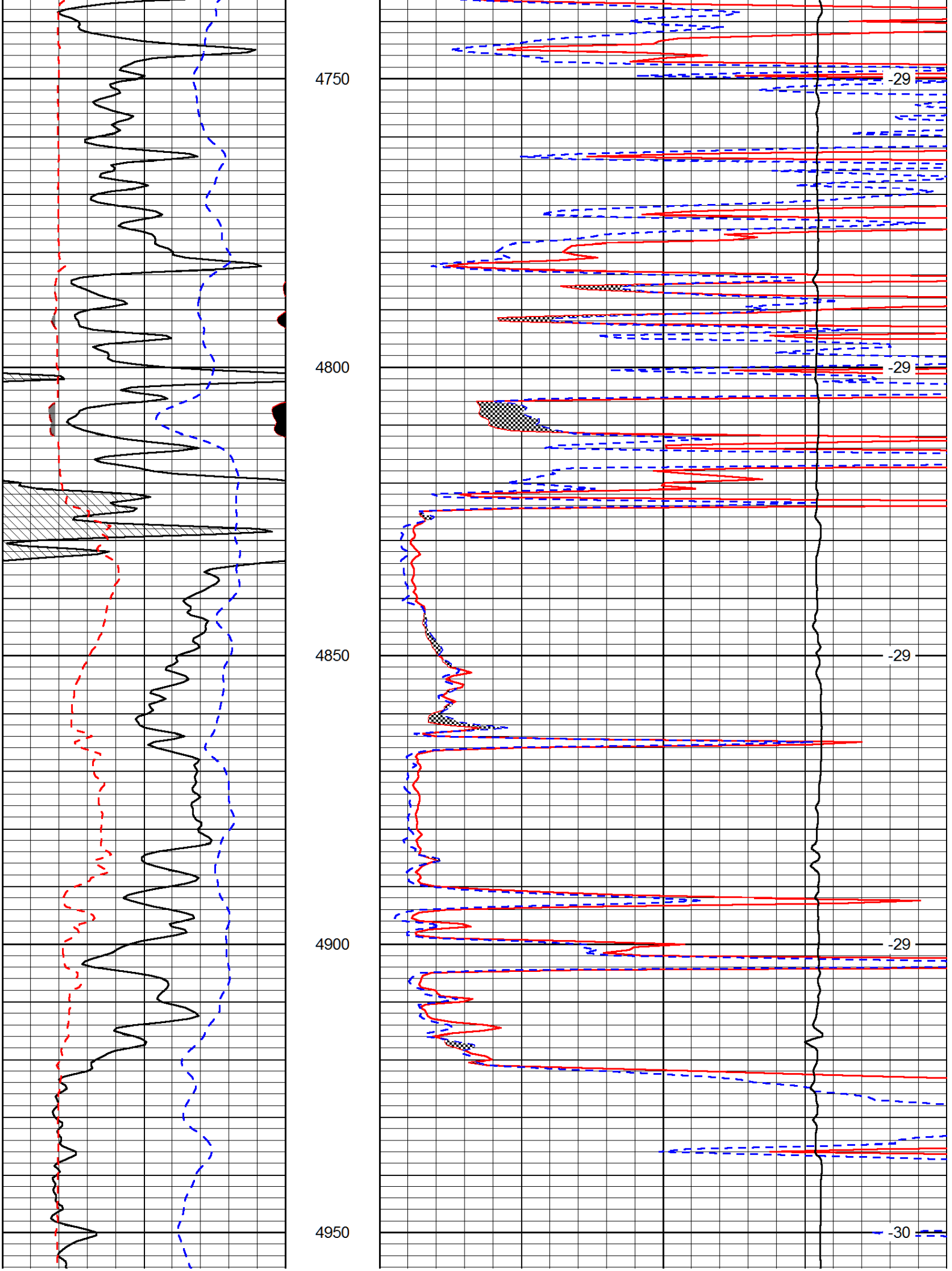

3650
3700
3750
3800
3850
-31
-31
-31
-31
-31

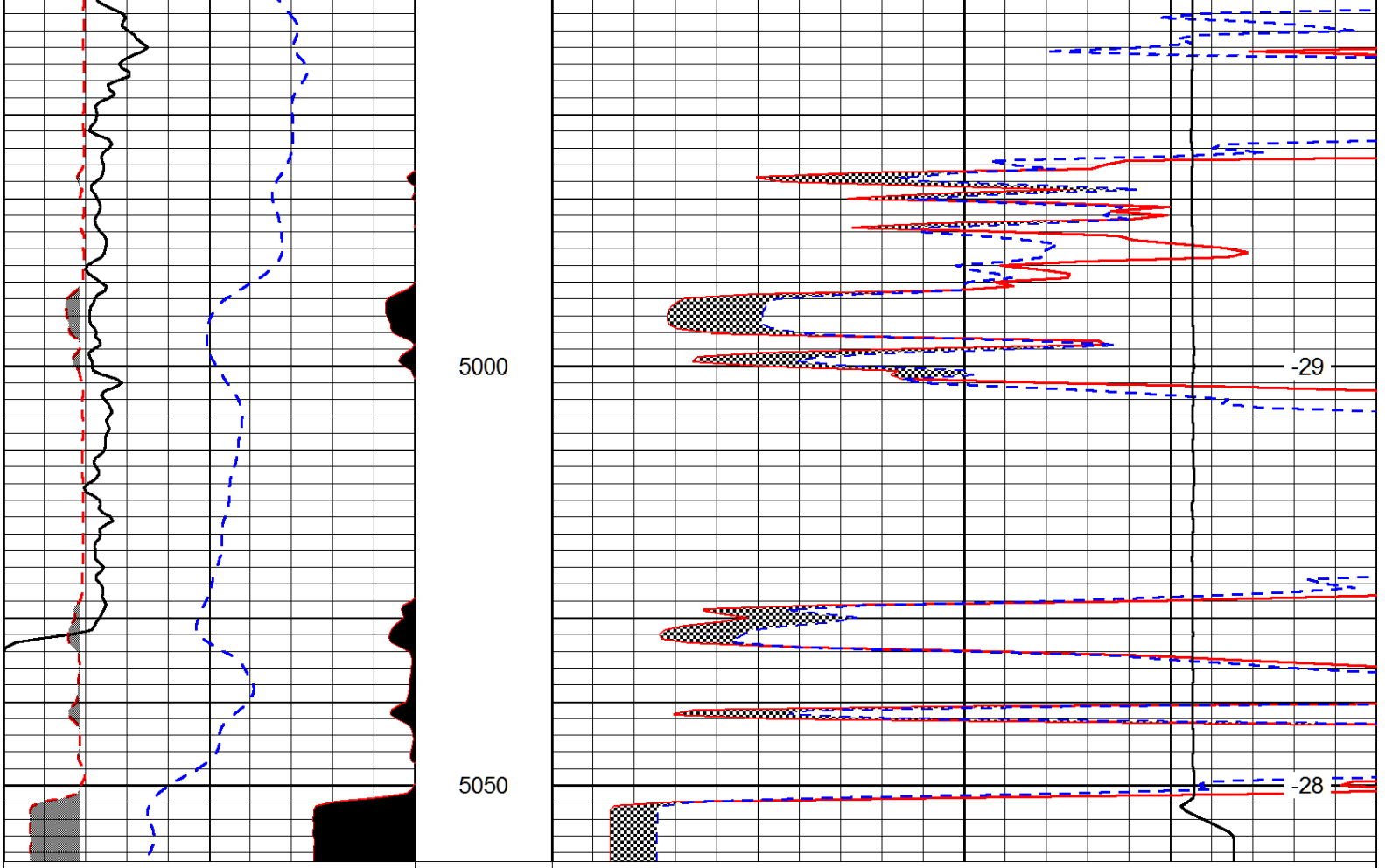

3900
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4000
4050
-31
-30
-31
-31


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4150
4200
4250
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-31
-31
-31


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4950
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-29
-29
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