



Pioneer Energy Services

Microresistivity Log

API No.	15-083-21,875-00-00		
Company	American Warrior, Inc.		
Well	Sparks #1-28		
Field	Unnamed		
County	Hodgeman	State	Kansas
Location	1982' FSL & 2305' FWL		
Sec: 28	Twp: 22S	Rge: 21W	Other Services CNL/CDL DIL
Permanent Datum	Ground Level	Elevation 2248	Elevation
Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum	K.B. 2259
Drilling Measured From	Kelly Bushing		D.F. 2248
			G.L. 2248

Date	1/16/2013
Run Number	Two
Depth Driller	4600
Depth Logger	4602
Bottom Logged Interval	4601
Top Log Interval	3800
Casing Driller	8.625 @ 236
Casing Logger	230
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	7200
Density / Viscosity	9.3 49
pH / Fluid Loss	10.0 10.8
Source of Sample	Flowline
Rm @ Meas. Temp	.40 @ 55
Rmf @ Meas. Temp	.30 @ 55
Rmc @ Meas. Temp	.54 @ 55
Source of Rmf / Rmc	Charts
Rm @ BHT	.18 @ 122
Operating Rig Time	4 Hours
Max Rec. Temp. F	122
Equipment Number	15
Location	Hays
Recorded By	D. Kerr
Witnessed By	Kevin Timson
	J. Henriksen

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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

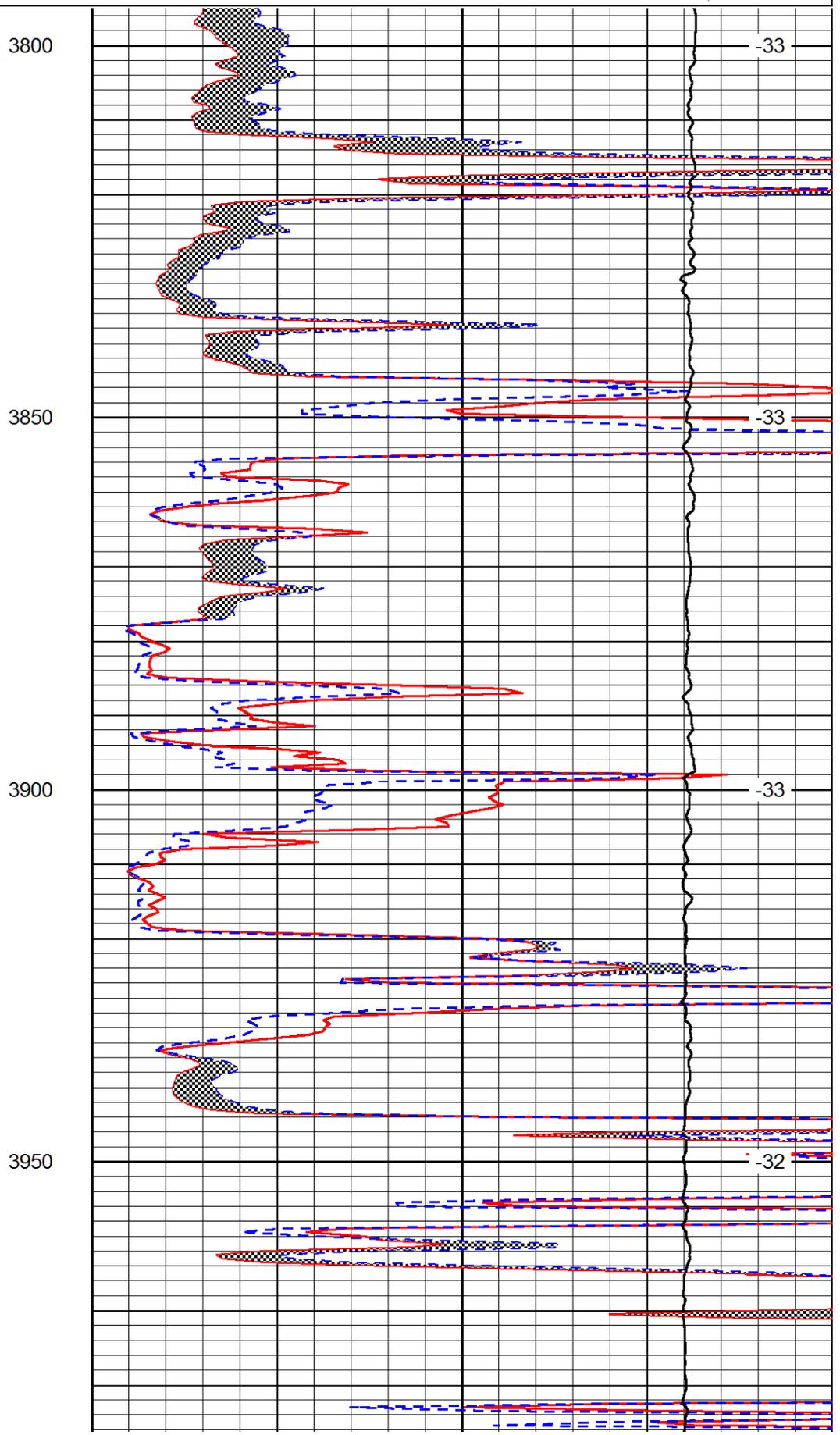
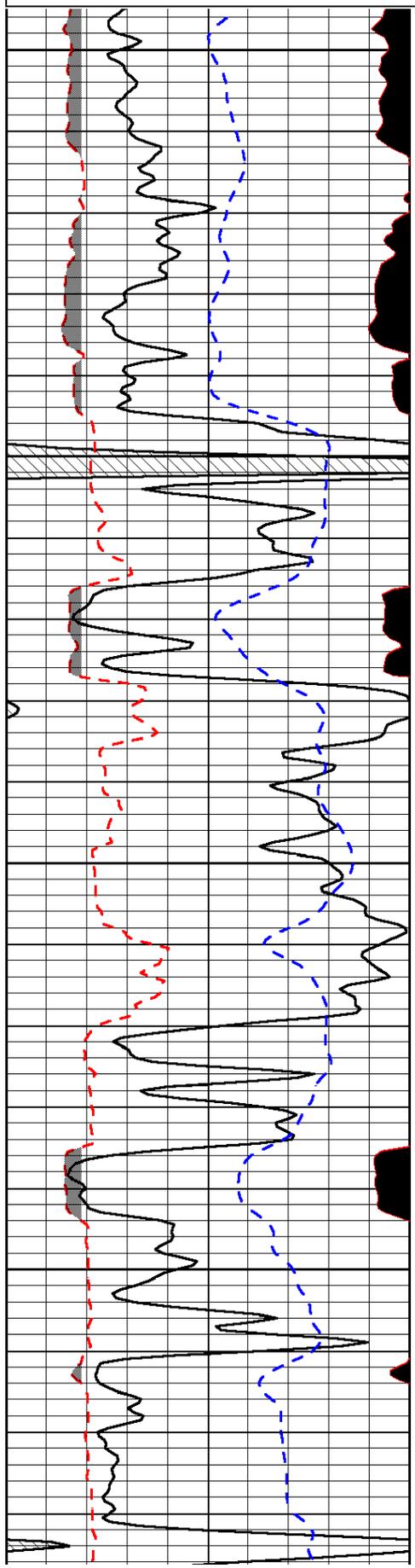
Burdett KS, 5 West to 233 RD, 5 South to O,
1/2 West, South Into

Database File: amwarrior_sparks_1_28hd.db
 Dataset Pathname: DIL/awstk
 Presentation Format: micro
 Dataset Creation: Wed Jan 16 23:01:07 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 Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD
(ft/min)



3800

-33

3850

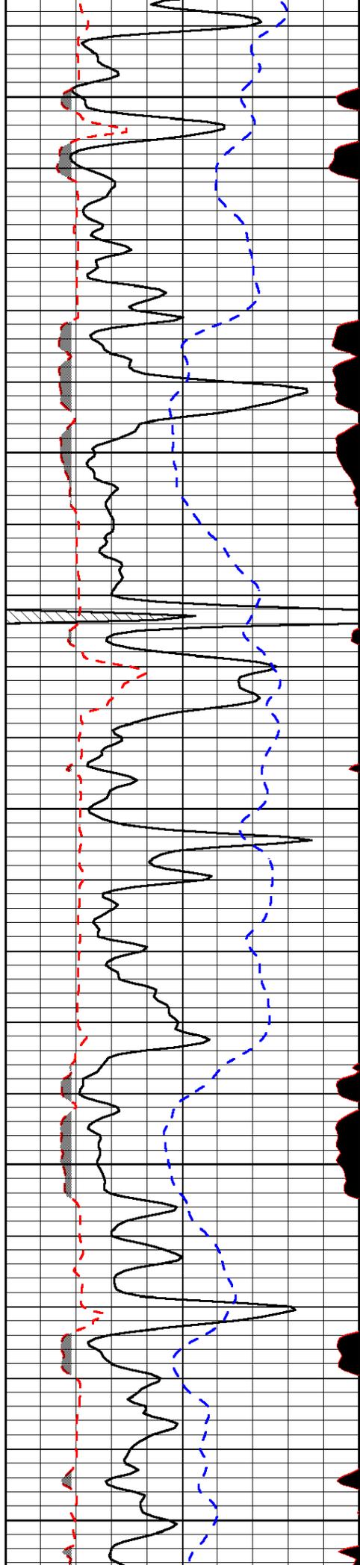
-33

3900

-33

3950

-32



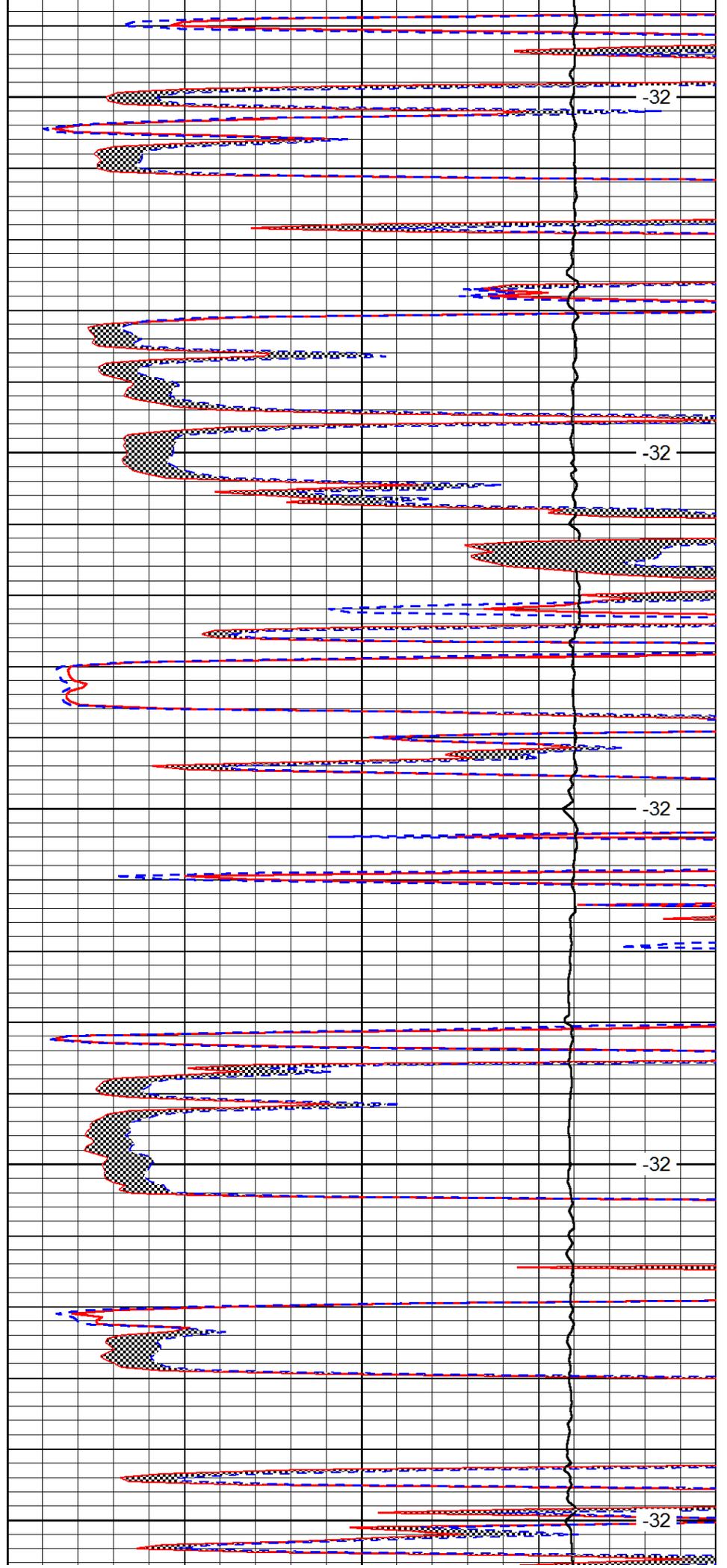
4000

4050

4100

4150

4200



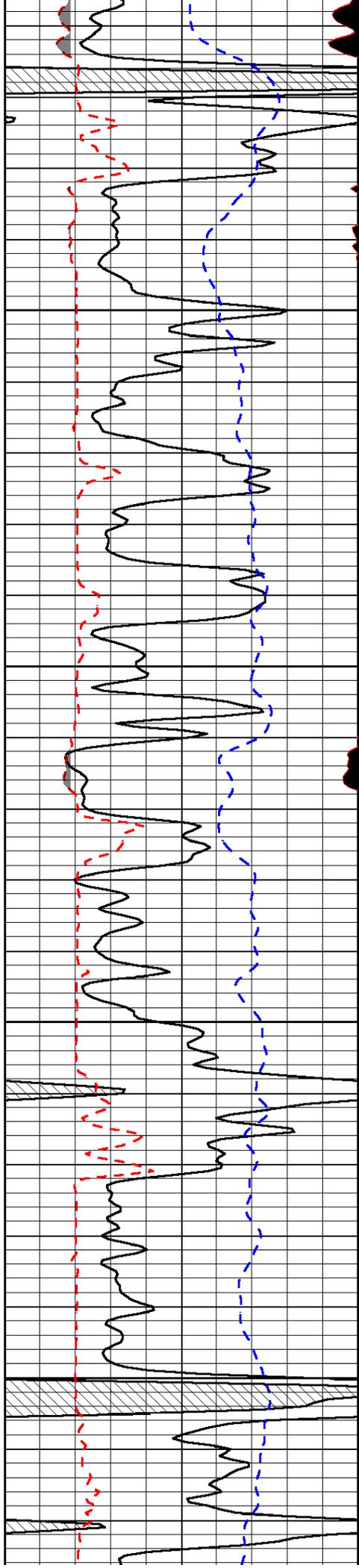
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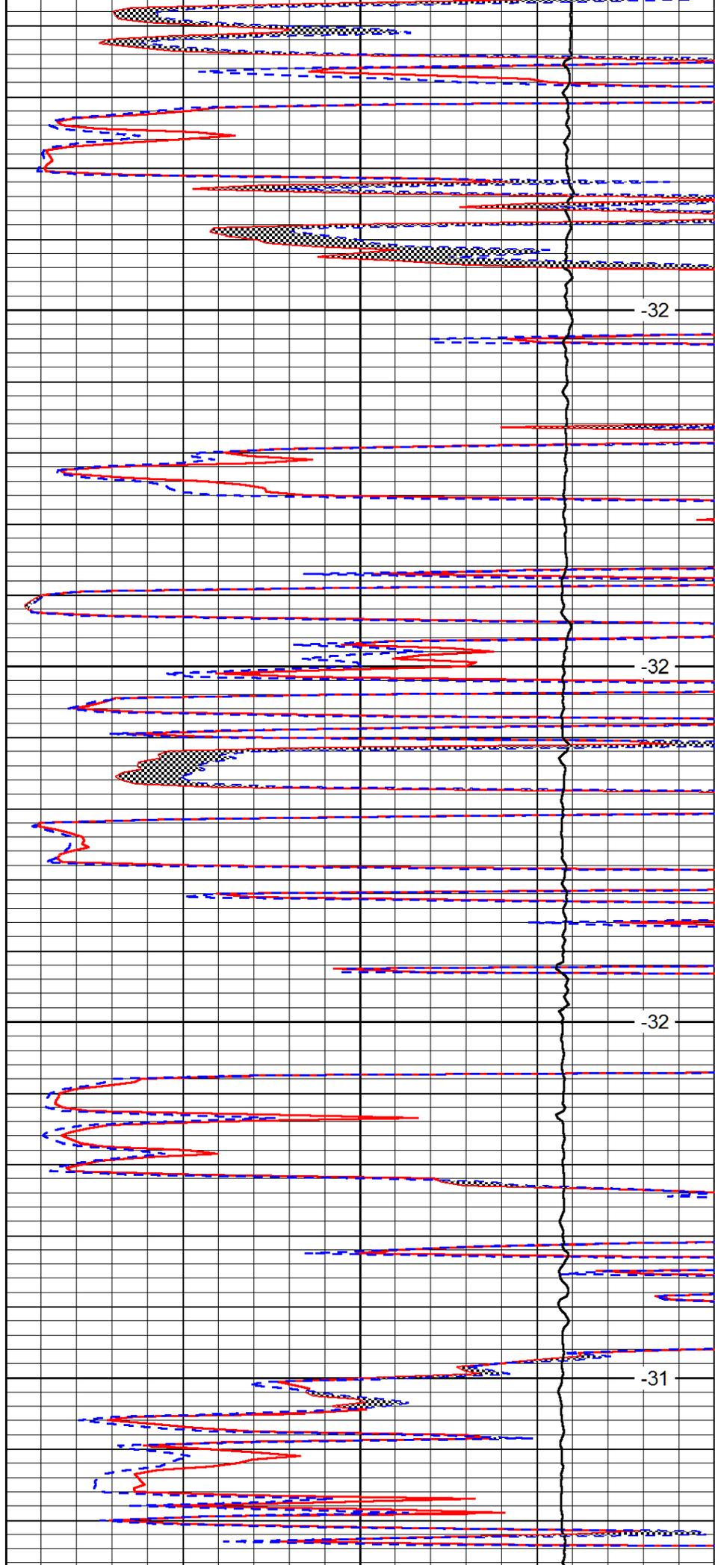


4250

4300

4350

4400

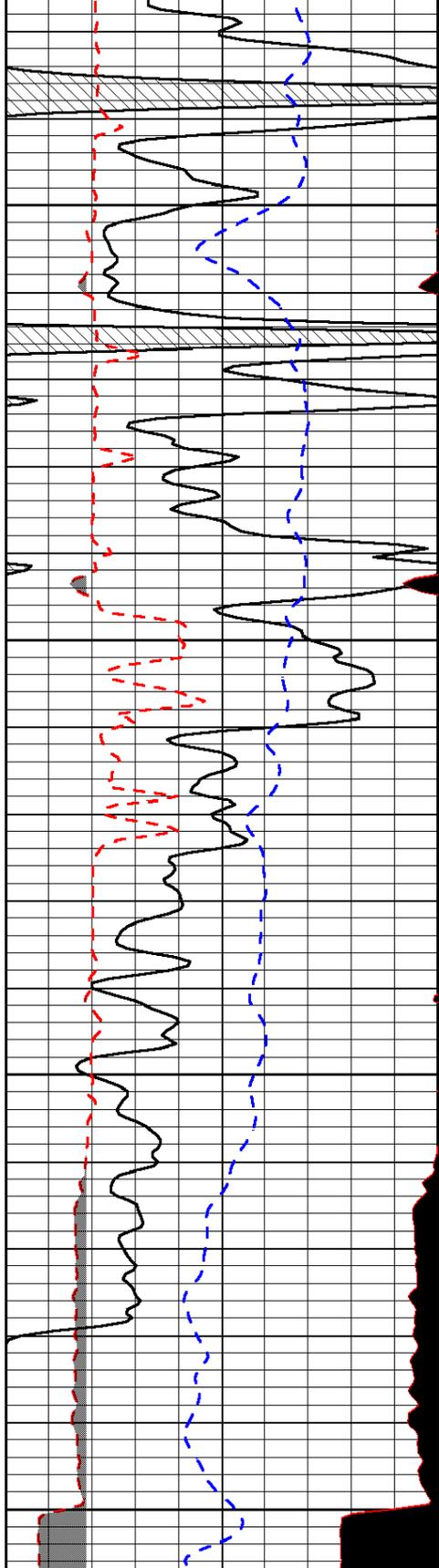


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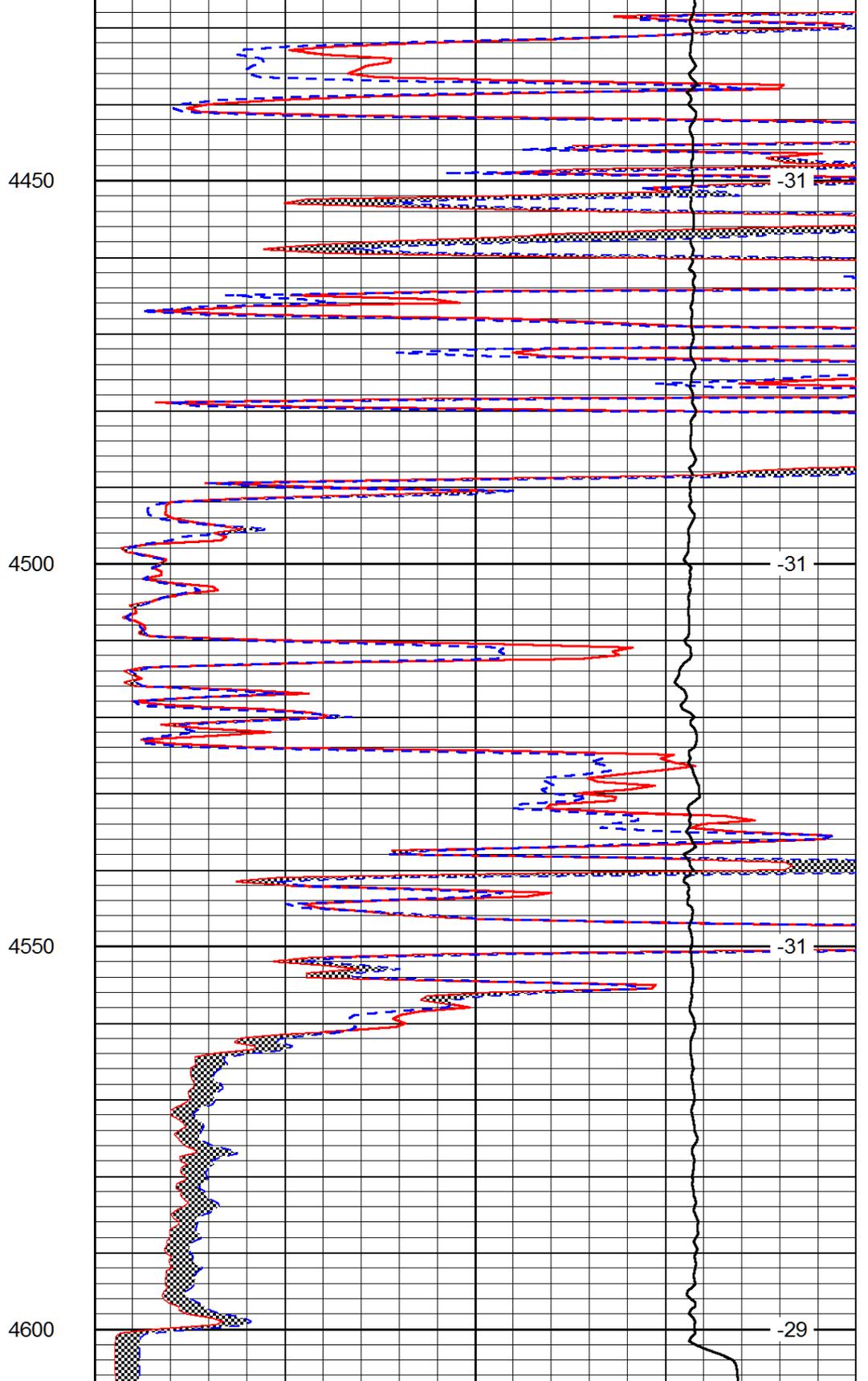
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-31



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