



Pioneer Energy Services

Microresistivity Log

API No.	15-159-22,815-00-00	
Company	Bird Dog Oil, LLC	
Well	Pioneer-Schubert No. 4-23	
Field	Chase-Silica	
County	Rice	State
		Kansas
Location	1005' FNL & 2130' FWL	
Sec: 23	Twp: 19S	Rge: 10W
Permanent Datum	Ground Level	Elevation 1740
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
		Other Services CNL/CDL DIL/BHCS
		Elevation K.B. 1748 D.F. 1740 G.L. 1740

Date	12/19/14
Run Number	Two
Depth Driller	3350
Depth Logger	3350
Bottom Logged Interval	3349
Top Log Interval	2500
Casing Driller	8.625 @ 333
Casing Logger	330
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	7.800
Density / Viscosity	9.2 48
pH / Fluid Loss	10.5 9.2
Source of Sample	Flowline
Rm @ Meas. Temp	.57 @ 53
Rmf @ Meas. Temp	.43 @ 53
Rmc @ Meas. Temp	.77 @ 53
Source of Rmf / Rmc	Charts
Rm @ BHT	.28 @ 110
Operating Rig Time	4 Hours
Max Rec. Temp. F	110
Equipment Number	108
Location	Hays
Recorded By	J. Henrickson
Witnessed By	Adam Nighswonger

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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

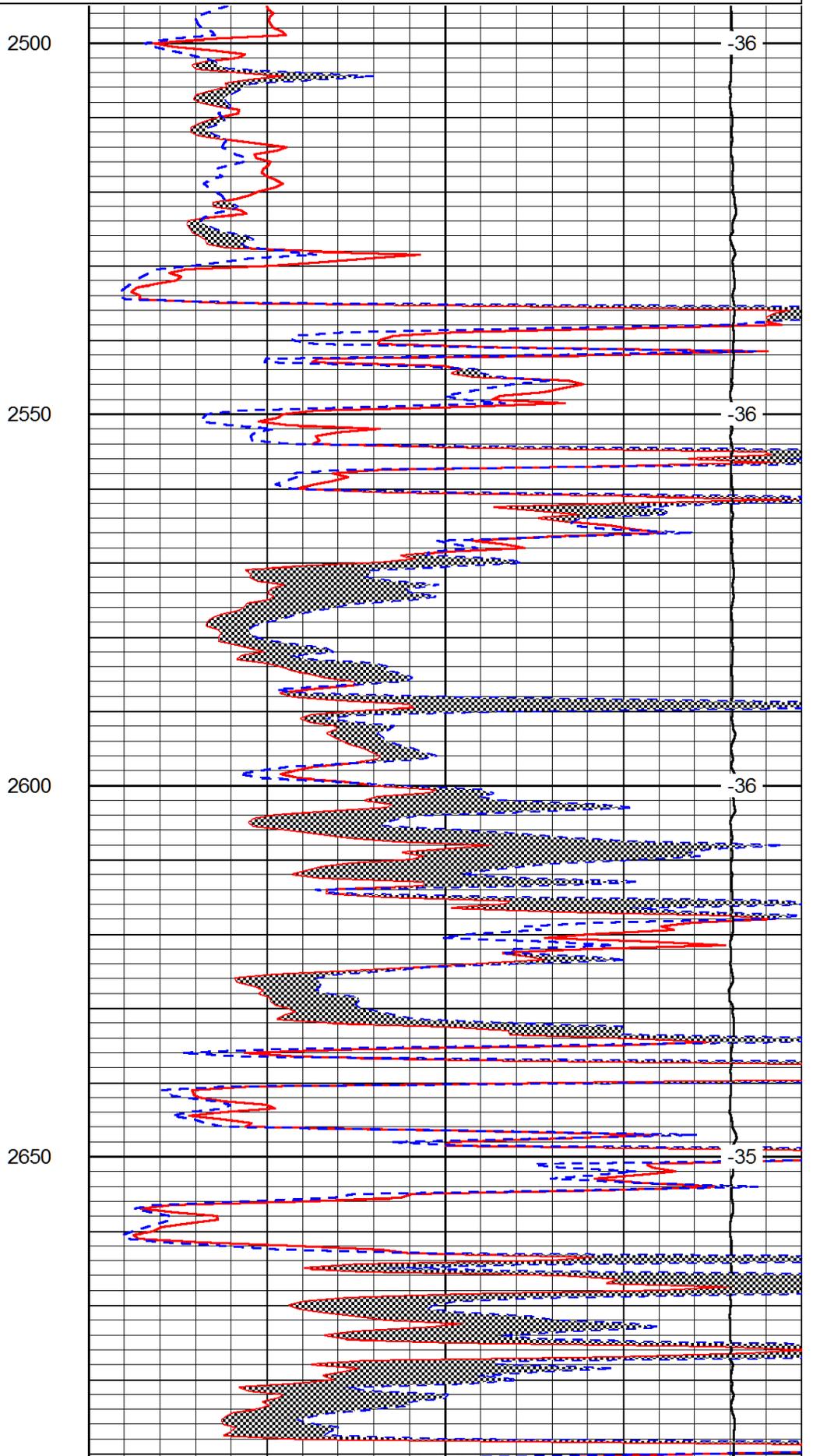
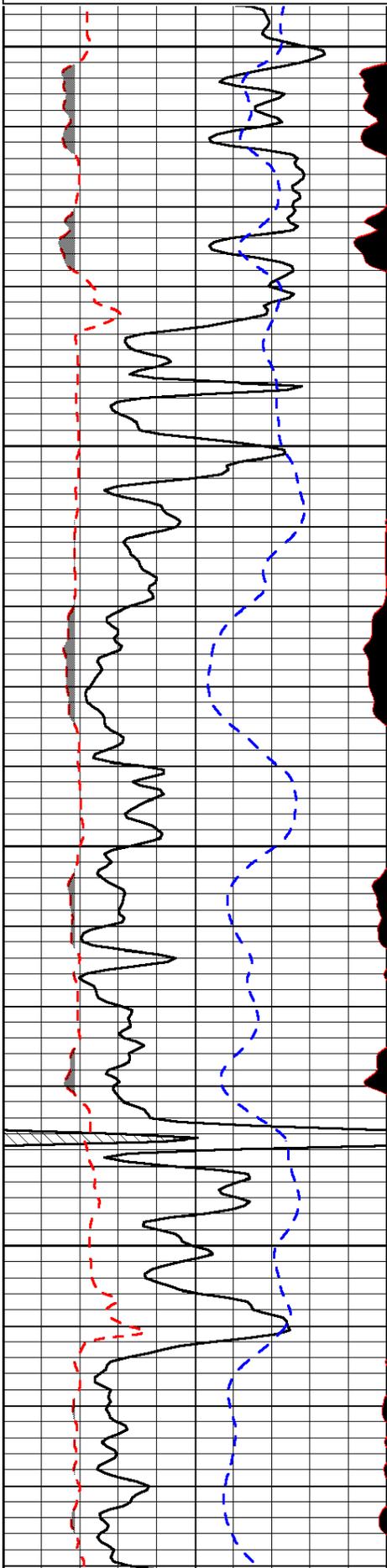
 Ellinwood Kansas
 9 East to 5 Rd, 3 North, 1/2 East, South Into

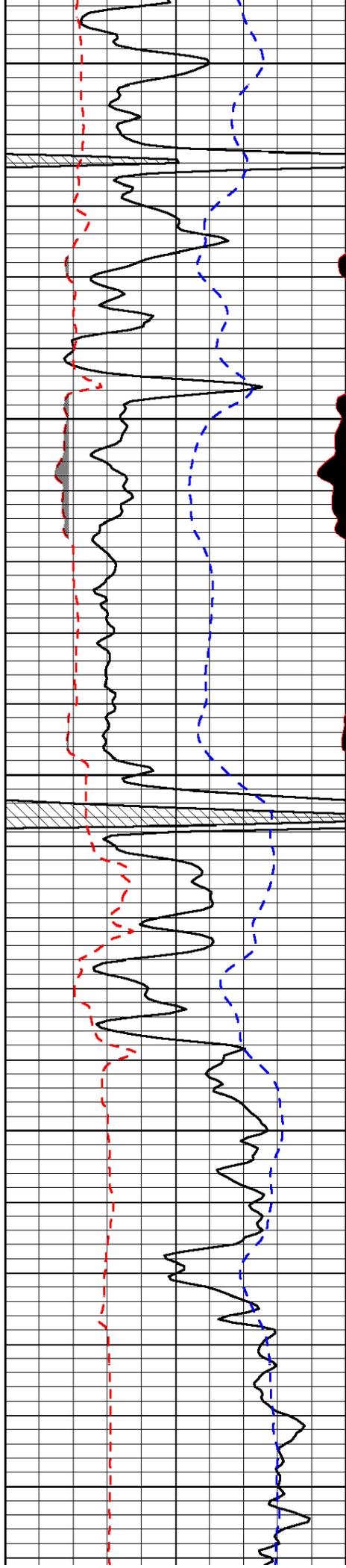
Database File: birddogoil_pioneer_schubert_4_23hd.db
 Dataset Pathname: DIL/bdstk
 Presentation Format: micro
 Dataset Creation: Fri Dec 19 06:49:49 2014
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0

LSPD





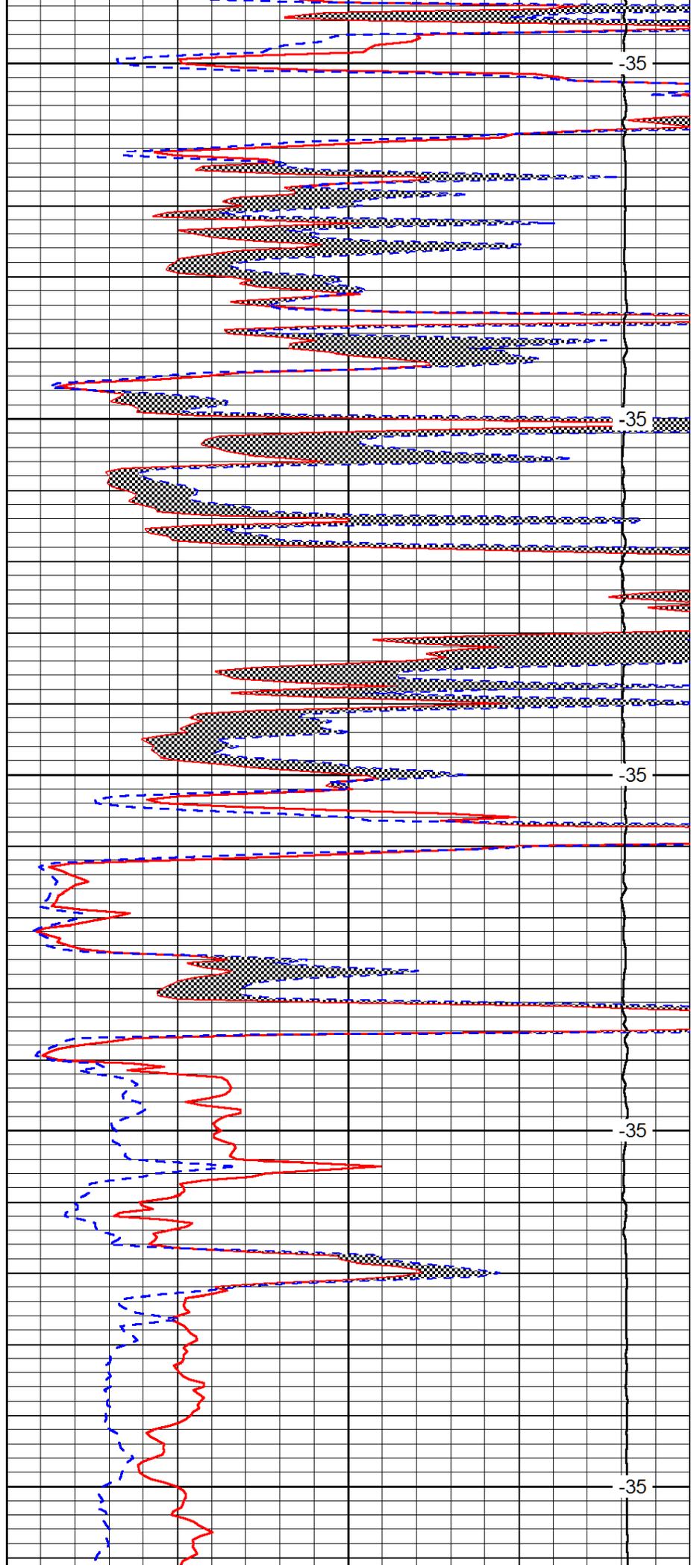
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2750

2800

2850

2900



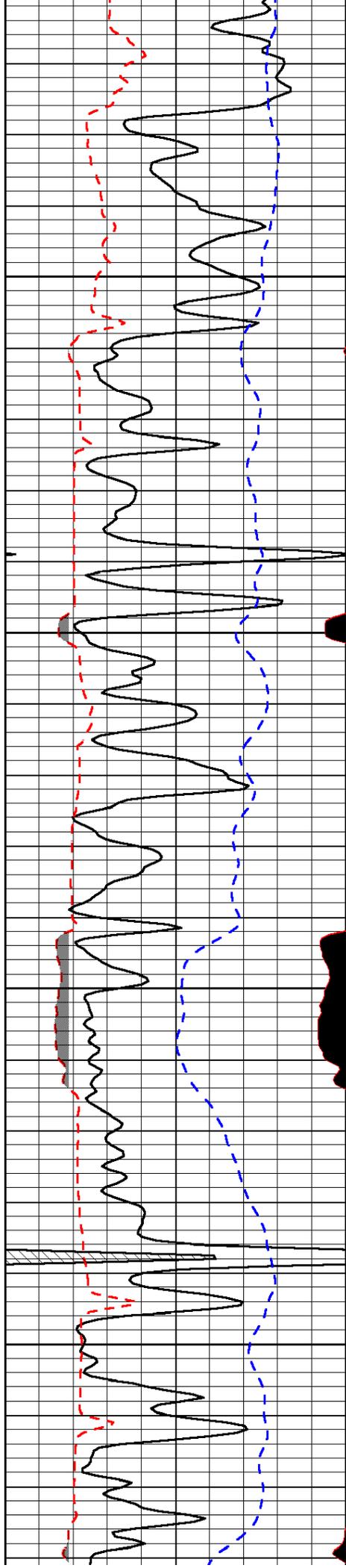
-35

-35

-35

-35

-35

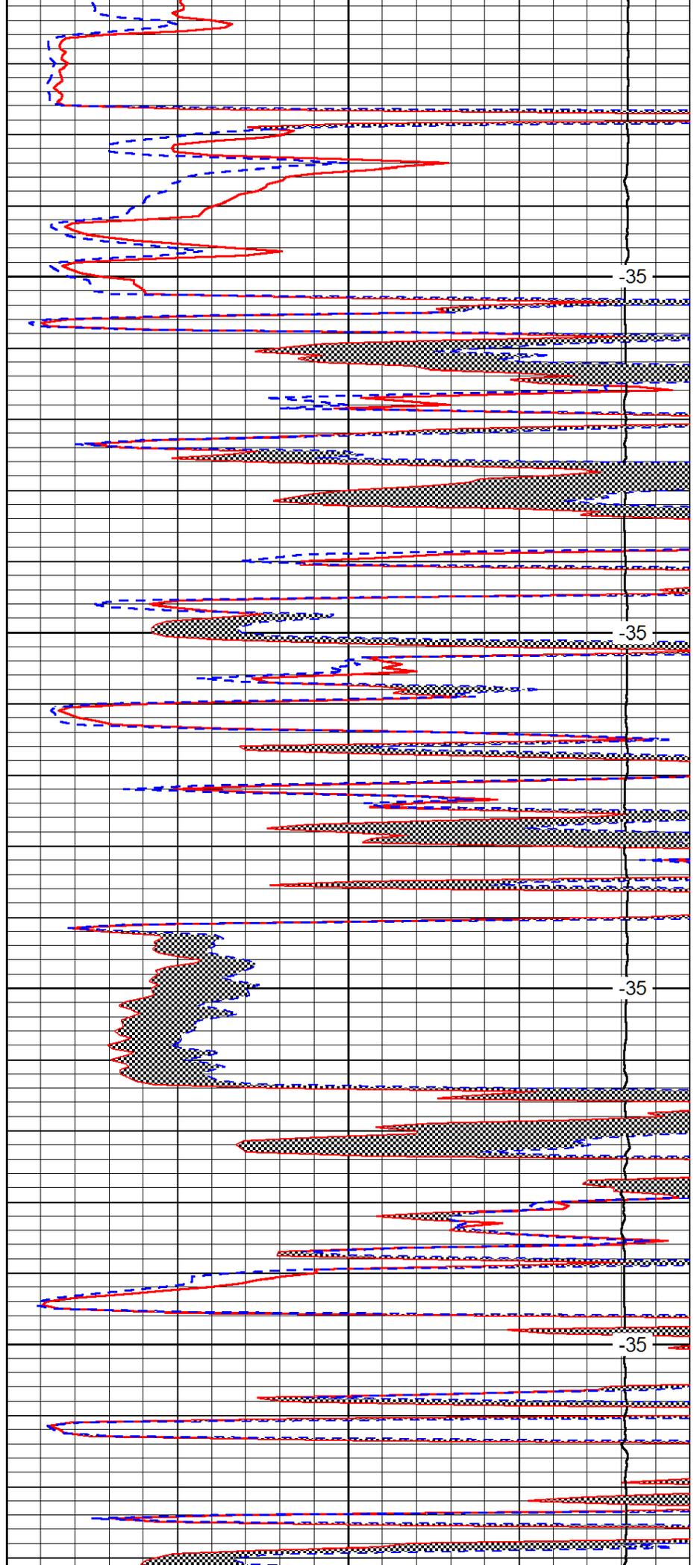


2950

3000

3050

3100

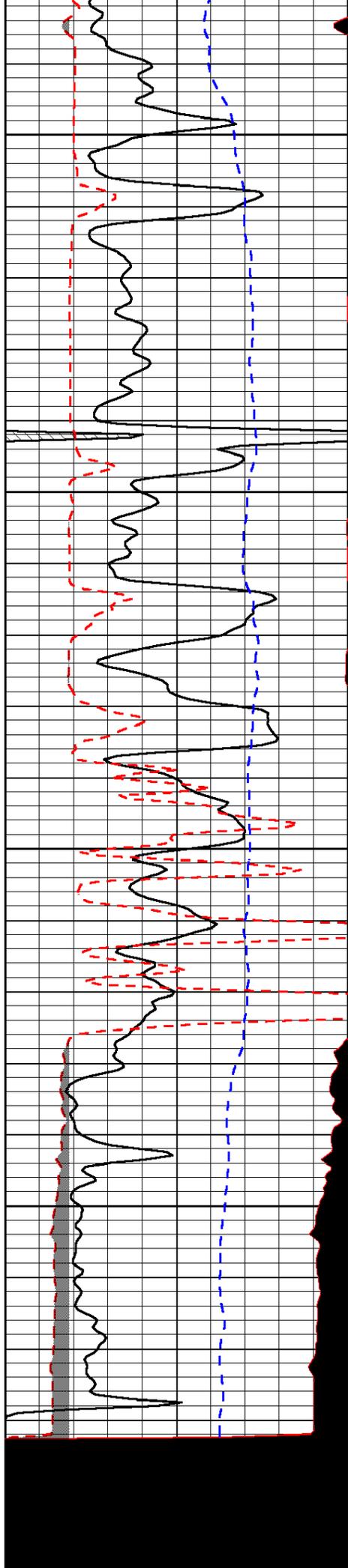


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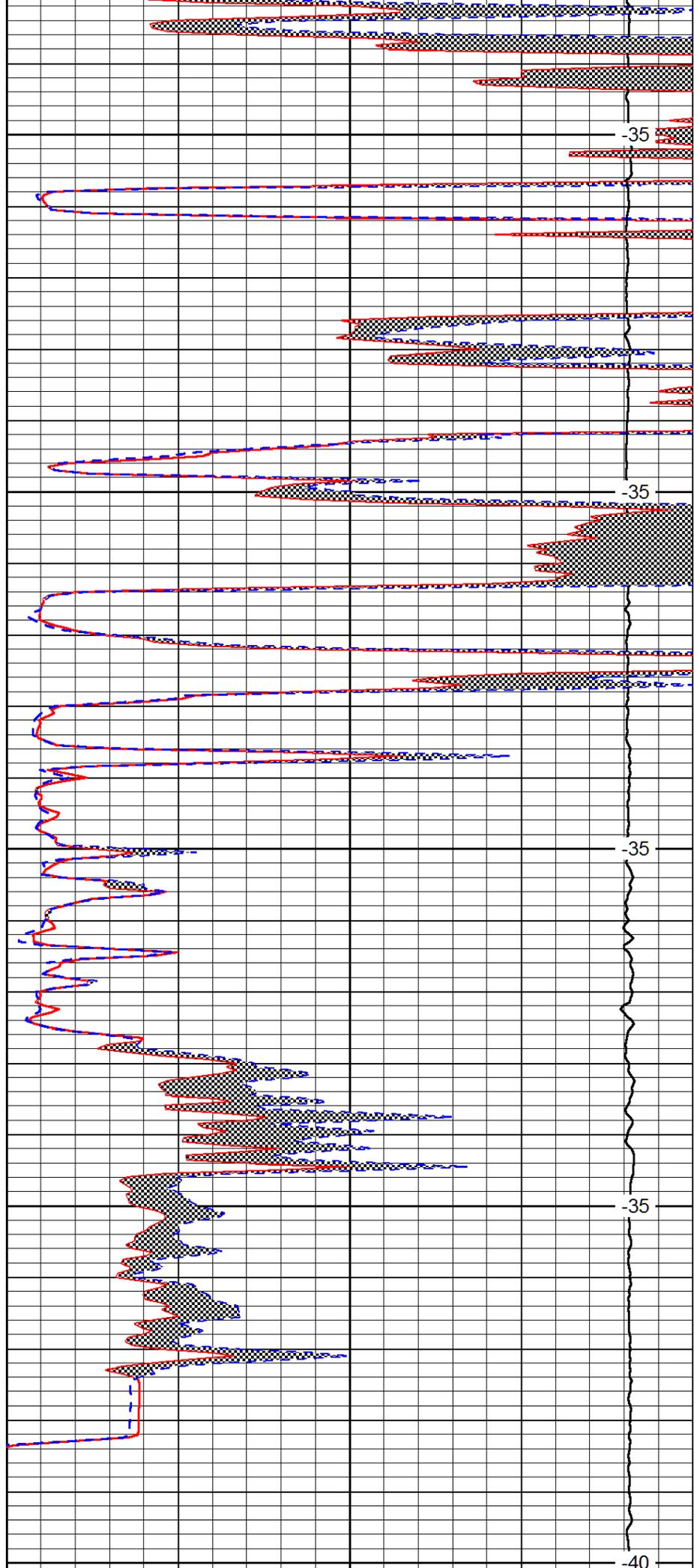
3150

3200

3250

3300

3350



-35

-35

-35

-35

-40

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