



Pioneer Energy Services

Microresistivity Log

15-141-20,463-00-00

API No.

Company **Bruce Oil Company, LLC**
 Well **KC Unit No. 1**
 Field **Kill Creek Northwest**
 County **Osborne** State **Kansas**

Location **NW-NW-NE-SE
 2500' FSL & 1275' FEL**
 Sec: **16** Twp: **8S** Rge: **14W**

Other Services
 CNL/CDL
 DIL

Permanent Datum **Ground Level** Elevation **1755**
 Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
 K.B. 1760
 D.F. 1755
 G.L. 1755

Date	10/24/13	
Run Number	Two	
Depth Driller	3070	
Depth Logger	3068	
Bottom Logged Interval	3067	
Top Log Interval	1600	
Casing Driller	8.625 @ 723	
Casing Logger	721	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	1,200	
Density / Viscosity	9.2 58	
pH / Fluid Loss	10.5 5.4	
Source of Sample	Flowline	
Rm @ Meas. Temp	.85 @ 69	
Rmf @ Meas. Temp	.64 @ 69	
Rmc @ Meas. Temp	1.15 @ 69	
Source of Rmf / Rmc	Charts	
Rm @ BHT	.55 @ 107	
Operating Rig Time	3 Hours	
Max Rec. Temp. F	107	
Equipment Number	108	
Location	Hays	
Recorded By	J. Henrickson	
Witnessed By	Bob Peterson	

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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

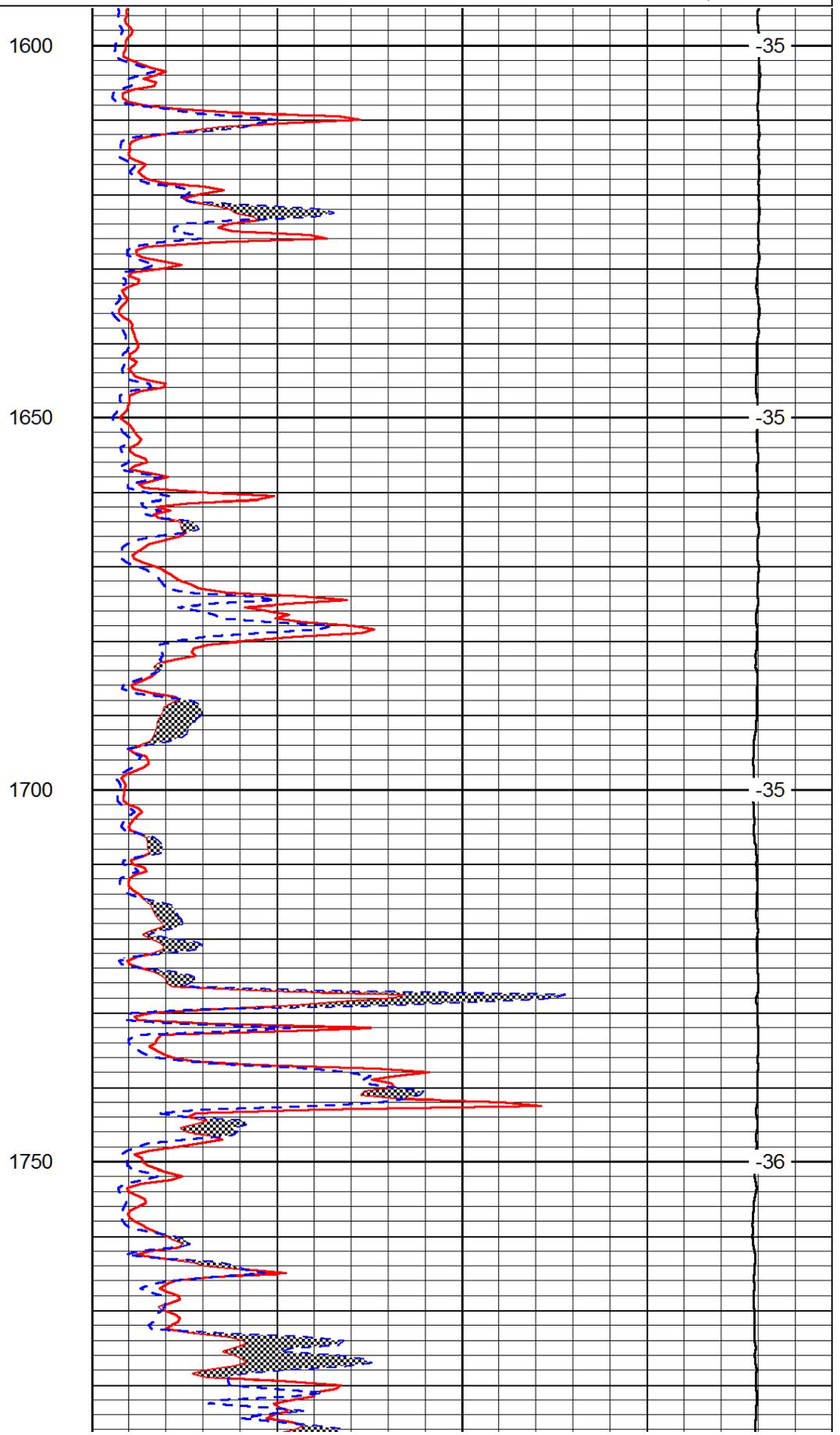
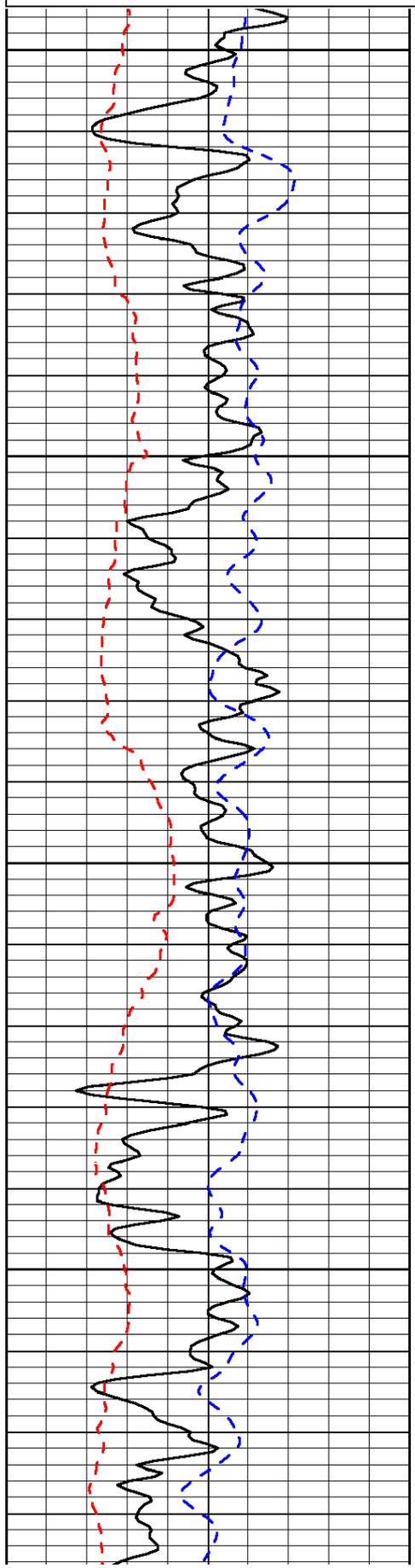
Natoma Kansas
 11 North on 280th Rd(657 Rd), 1 East, 1 North, 6 East, South Into

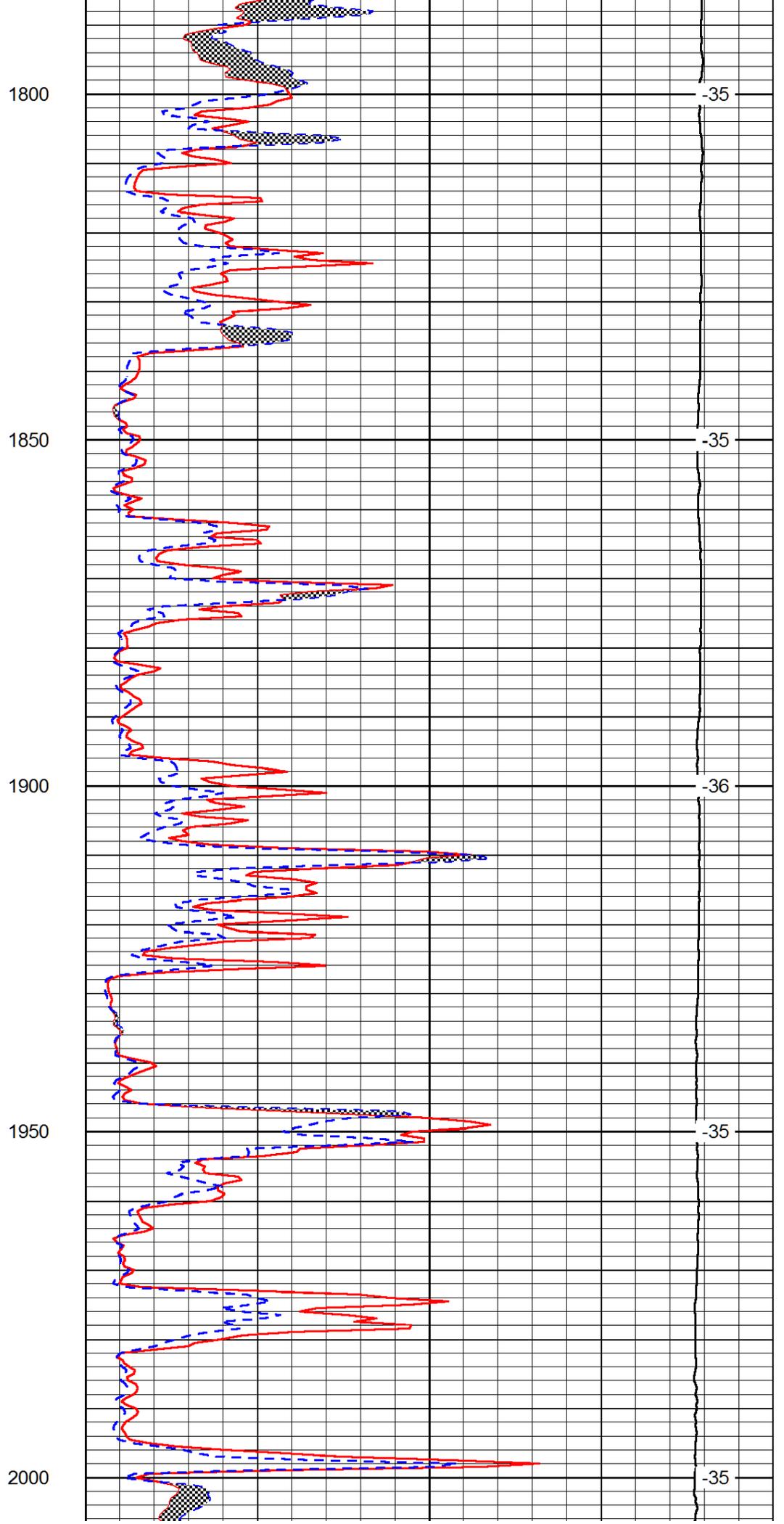
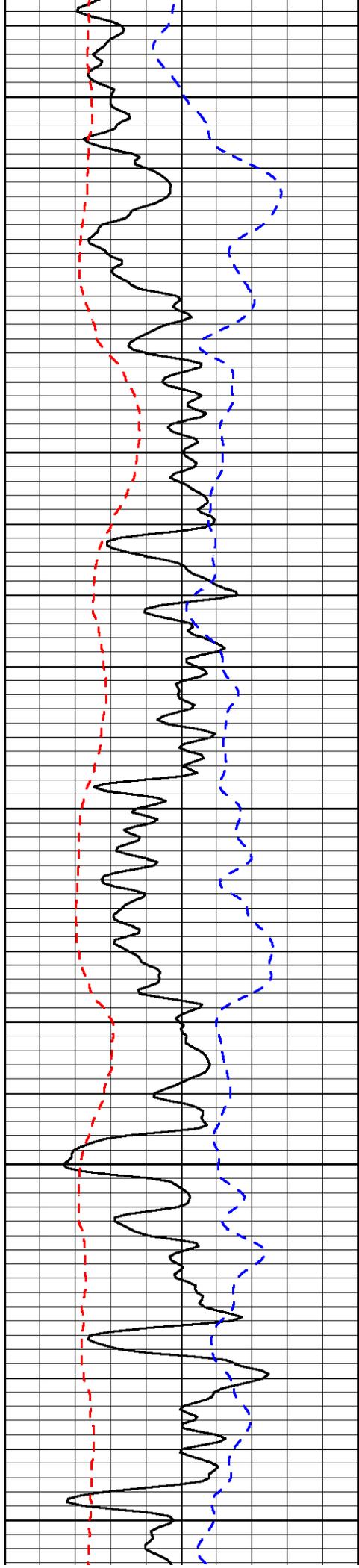
Database File: bruce_kc_unit_1hd.db
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 Presentation Format: micro
 Dataset Creation: Thu Oct 24 17:03:25 2013
 Charted by: Depth in Feet scaled 1:240

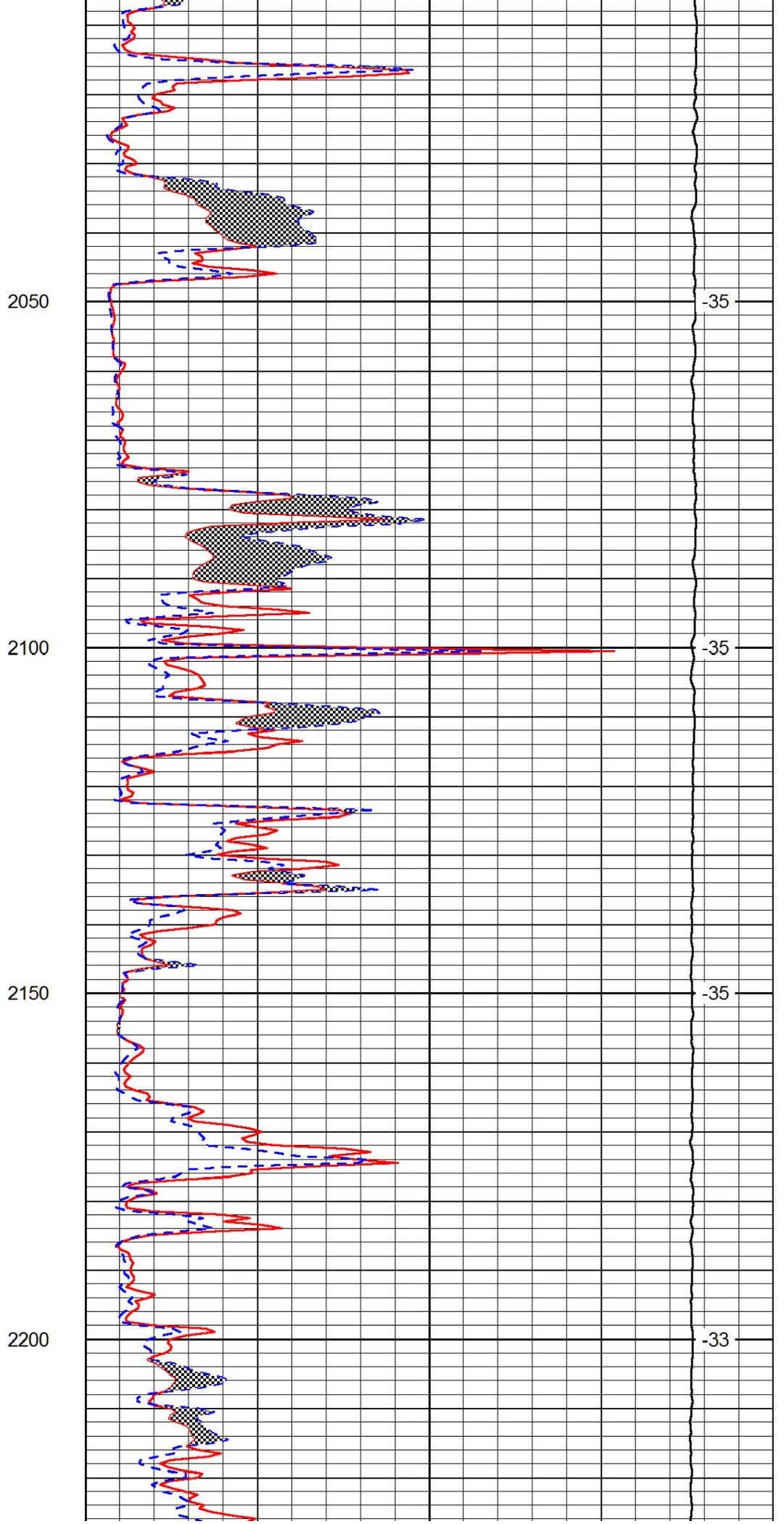
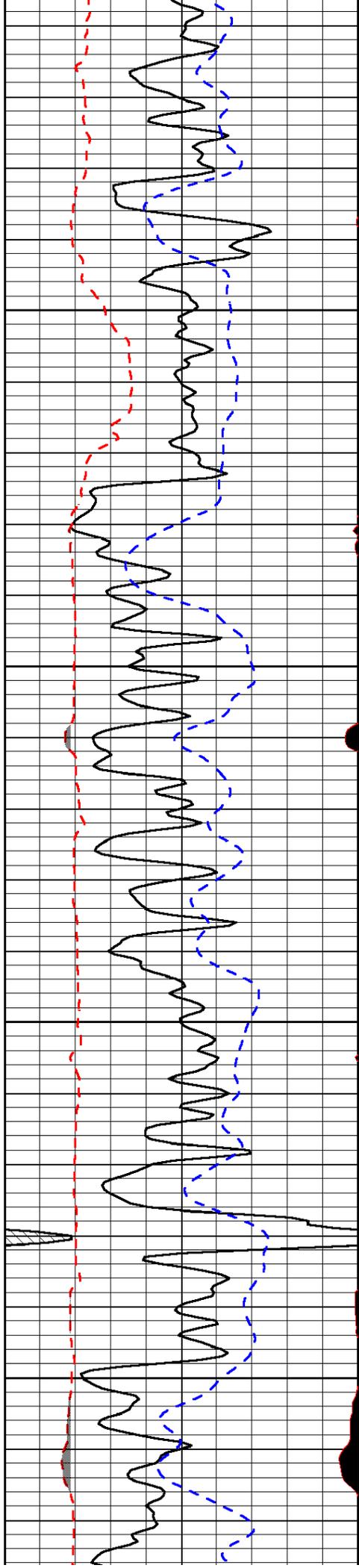
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

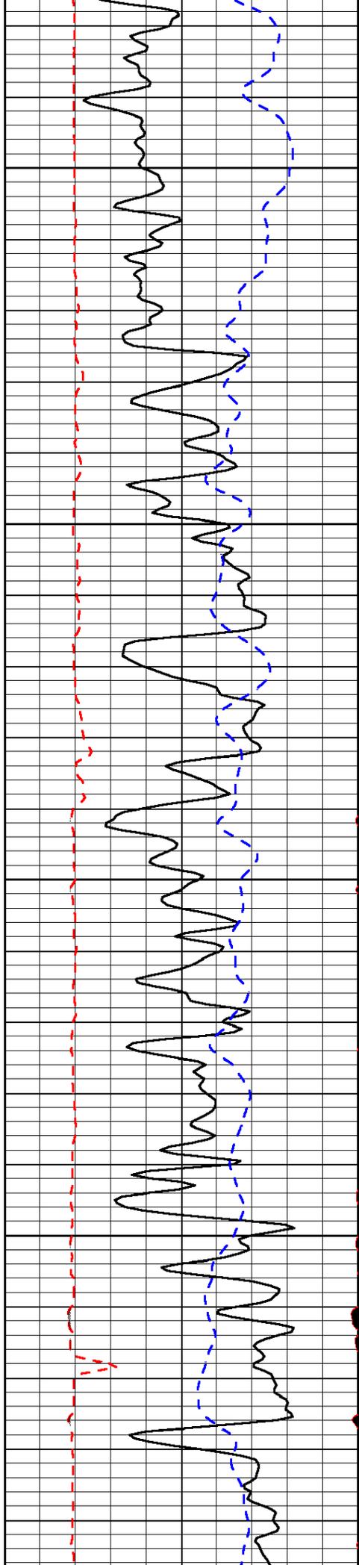
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD
(ft/min)







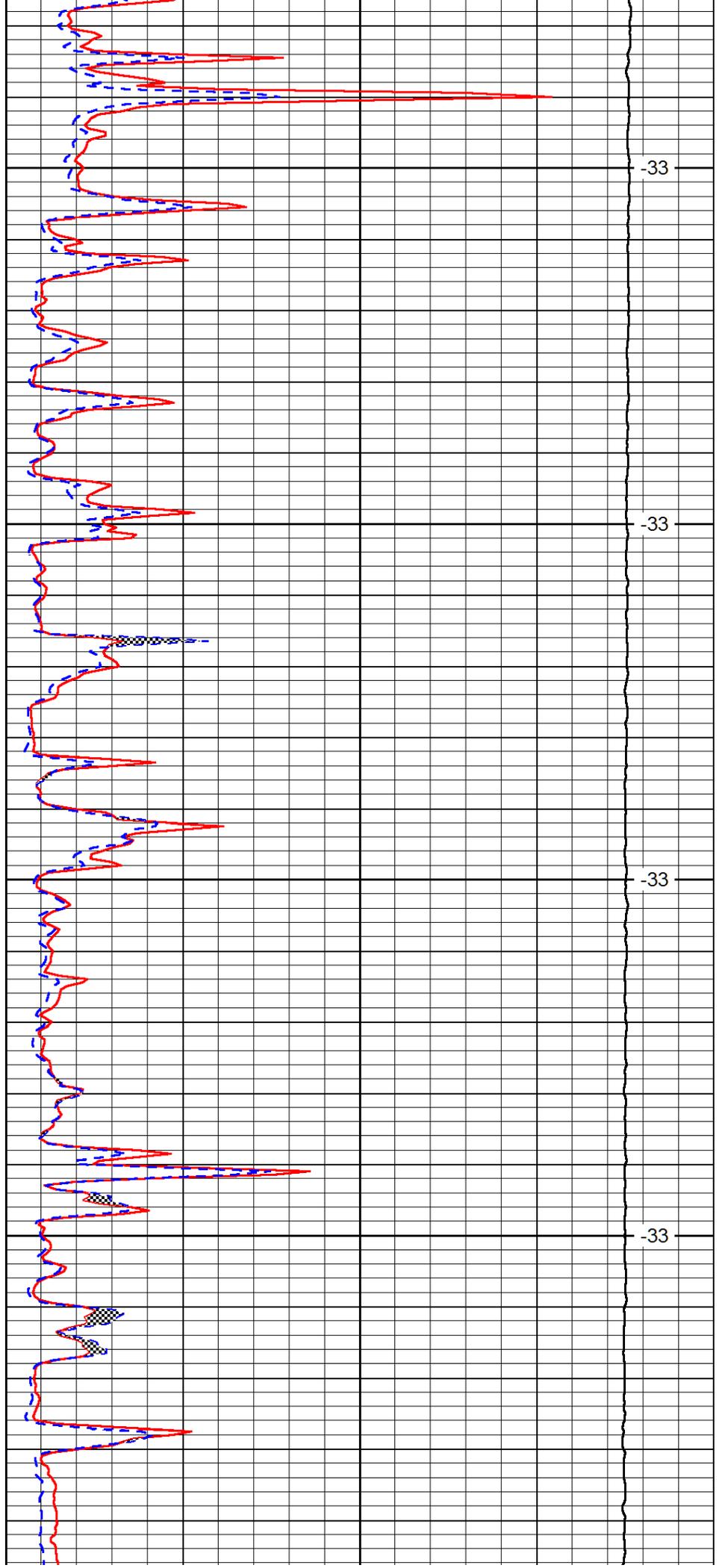


2250

2300

2350

2400

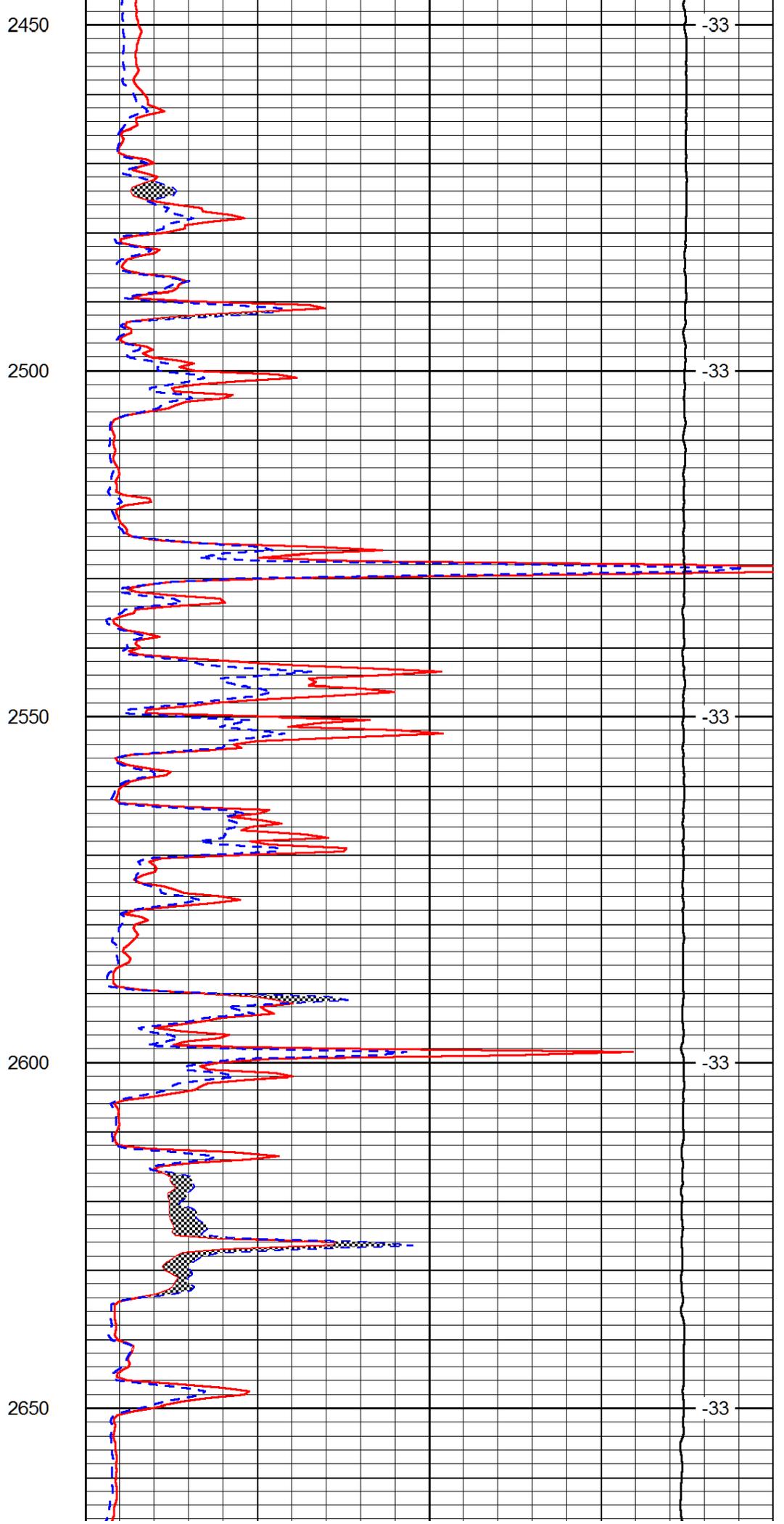
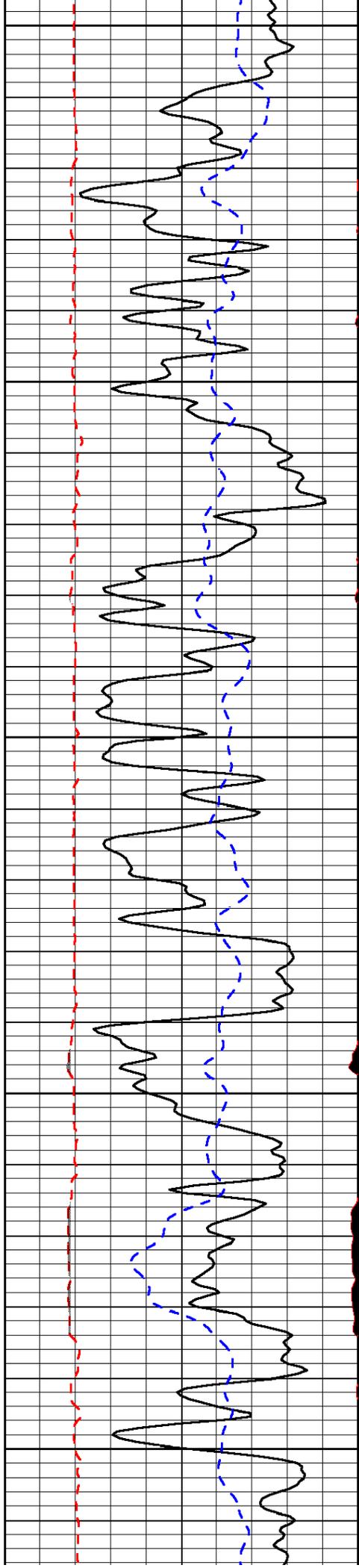


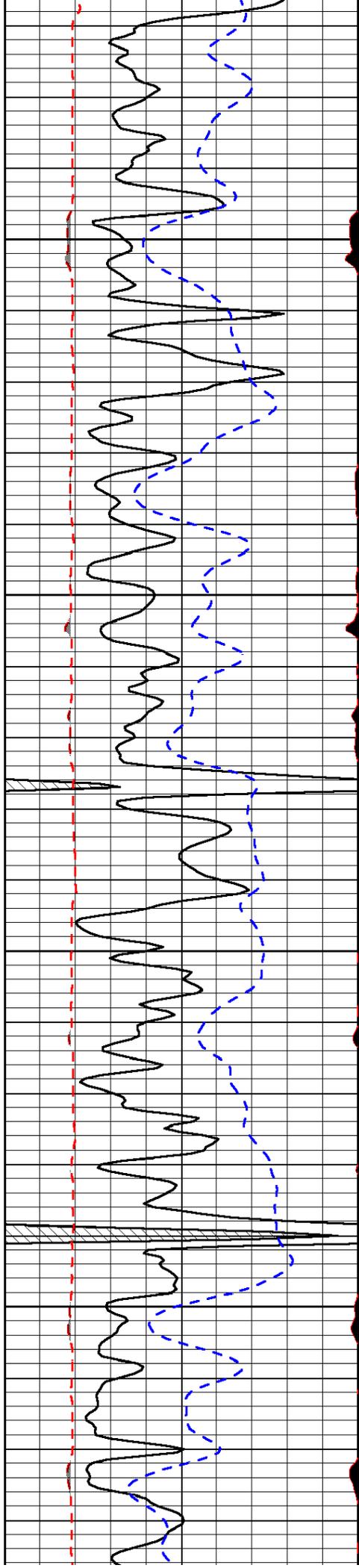
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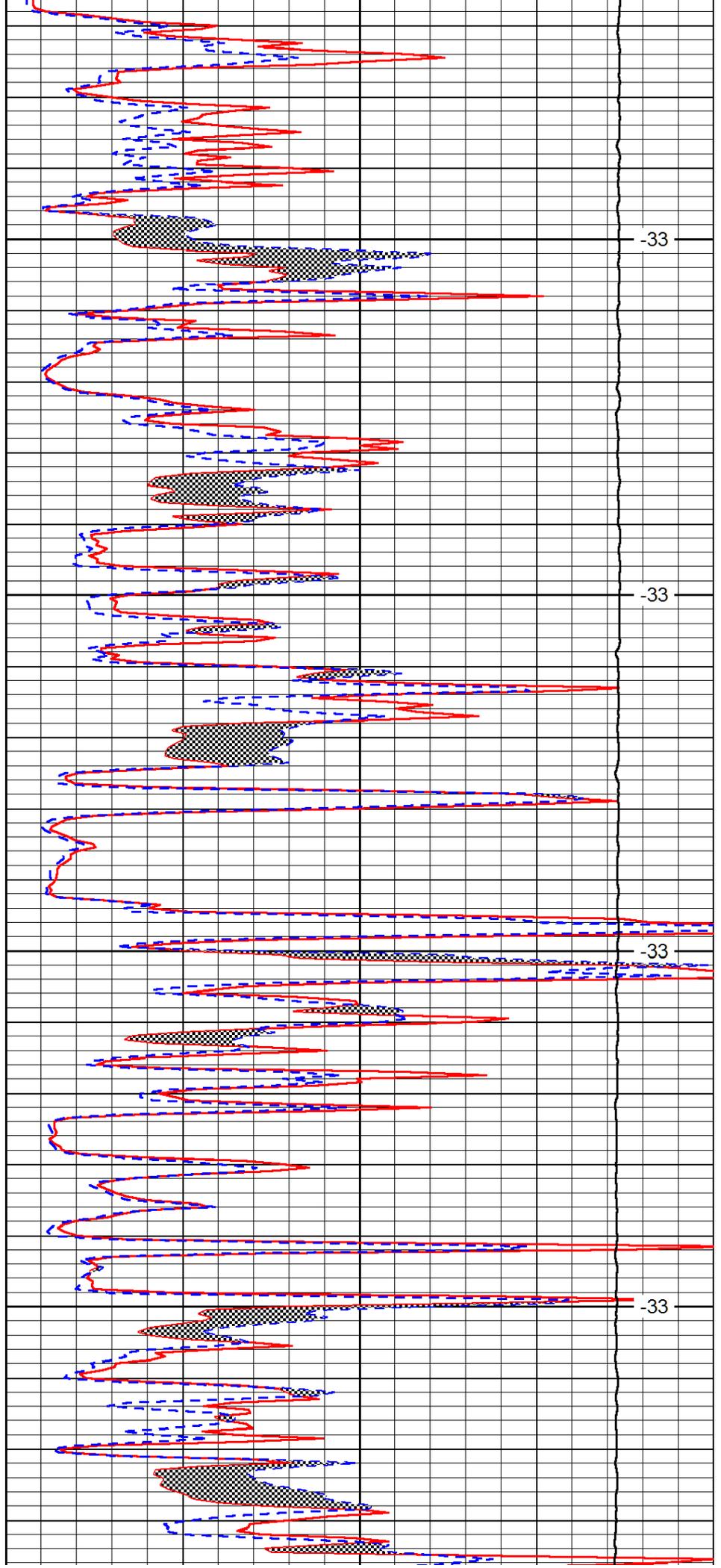


2700

2750

2800

2850

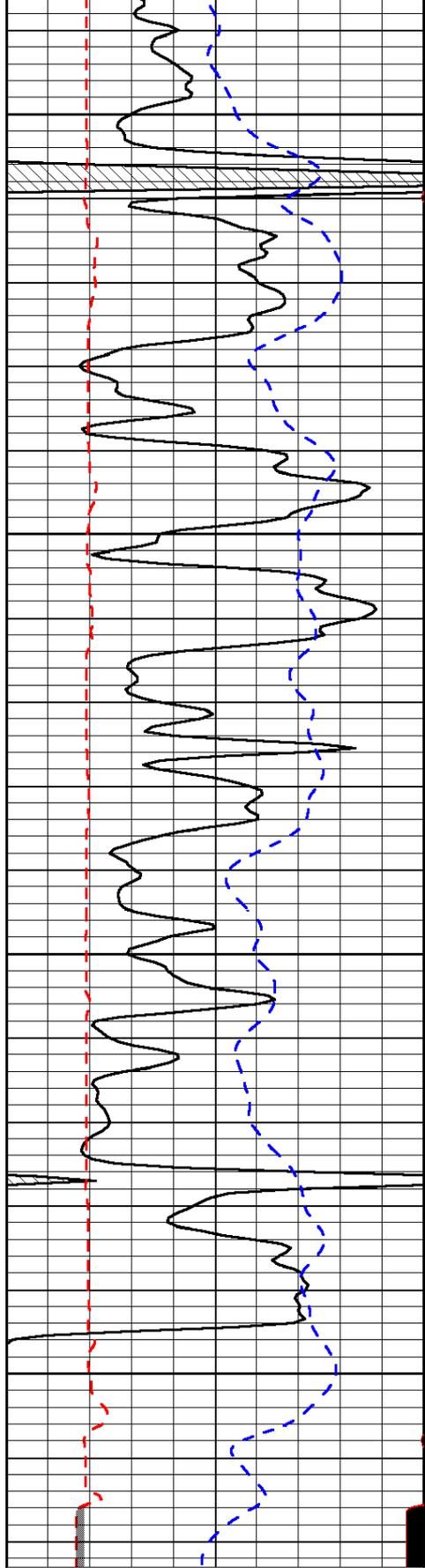


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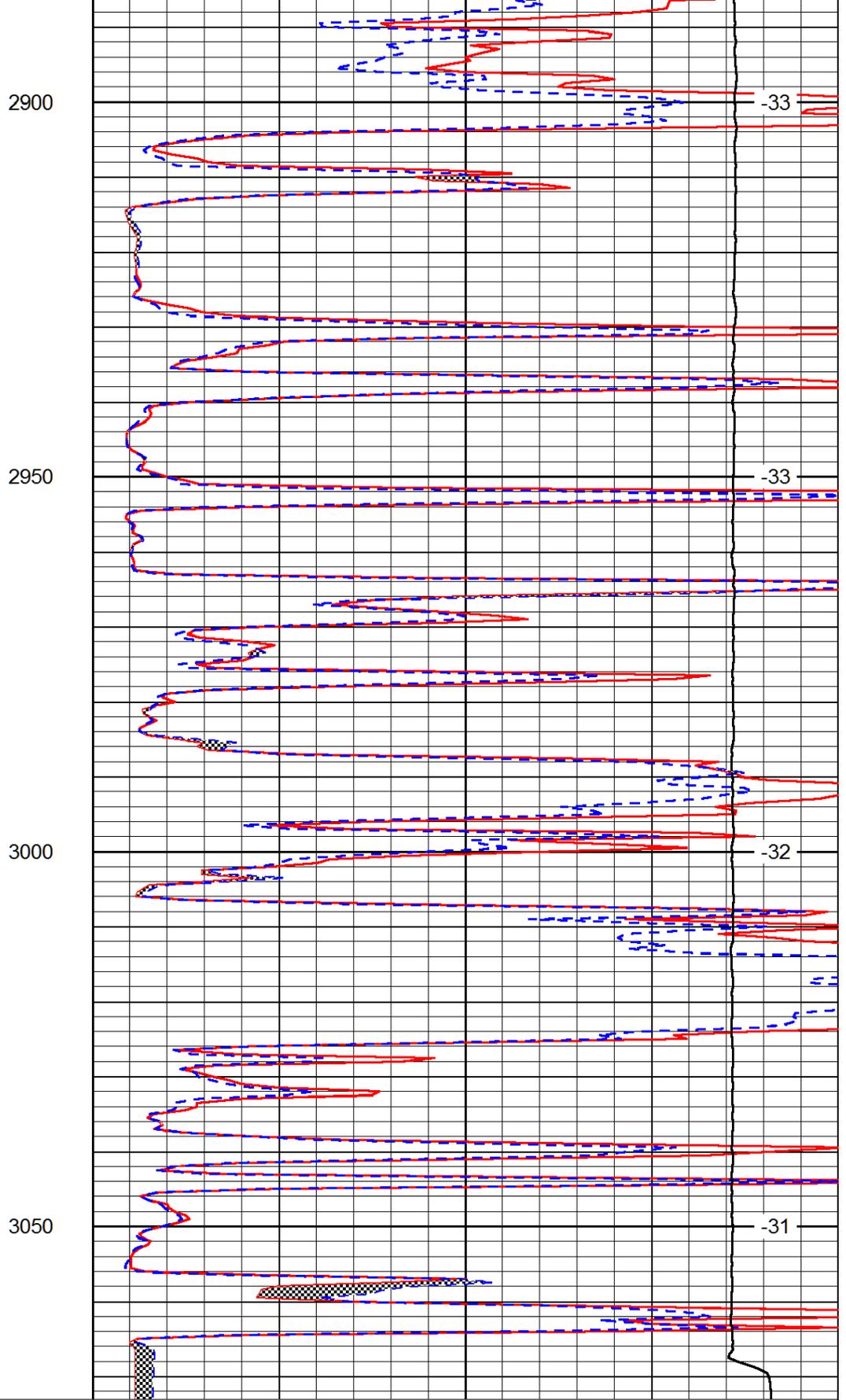
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