



Microresistivity Log

Pioneer Energy Services

API No.

15-145-21,708-00-00

Company H&D Exploration, LLC.

Well Phyllis "A" No. 1

Field Pawnee Rock

County Pawnee State Kansas

Location 2,310' FNL & 990' FWL

Sec: 36 Twp: 20S Rge: 16W

Other Services
CNL/CDL
DIL

Permanent Datum Ground Level Elevation 2032

Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing Elevation
K.B. 2041
D.F. 2032
G.L. 2032

Date 3/3/2013

Run Number Two

Depth Driller 3920

Depth Logger 3923

Bottom Logged Interval 3922

Top Log Interval 3200

Casing Driller 8.625 @ 1033

Casing Logger 1026

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 7500

Density / Viscosity 9.4 47

pH / Fluid Loss 10.5 8.0

Source of Sample Flowline

Rm @ Meas. Temp .70 @ 68

Rmf @ Meas. Temp .53 @ 68

Rmc @ Meas. Temp .95 @ 68

Source of Rmf / Rmc Charts

Rm @ BHT .41 @ 115

Operating Rig Time 4 Hours

Max Rec. Temp. F 115

Equipment Number 108

Location Hays

Recorded By J. Long

Witnessed By Wyatt Urban

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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

Pawnee Rock, West on T Road (County Road) to 90 Road, 1/2 North, East Into

Database File: h&d_phyllis_a_1hd.db

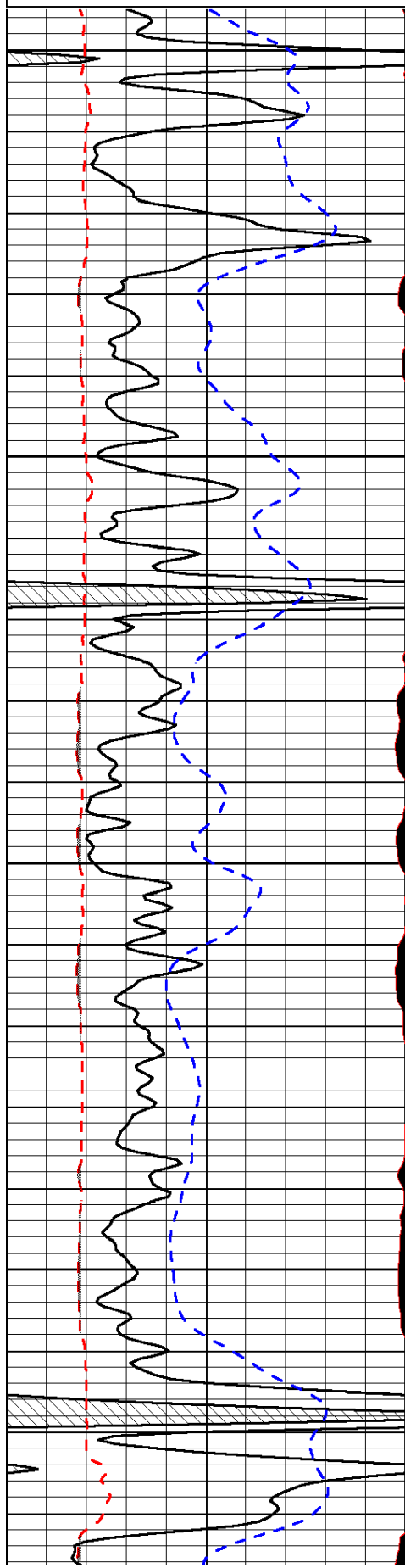
Dataset Pathname: dil/hdstck

Presentation Format: micro

Dataset Creation: Sun Mar 03 14:57:03 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



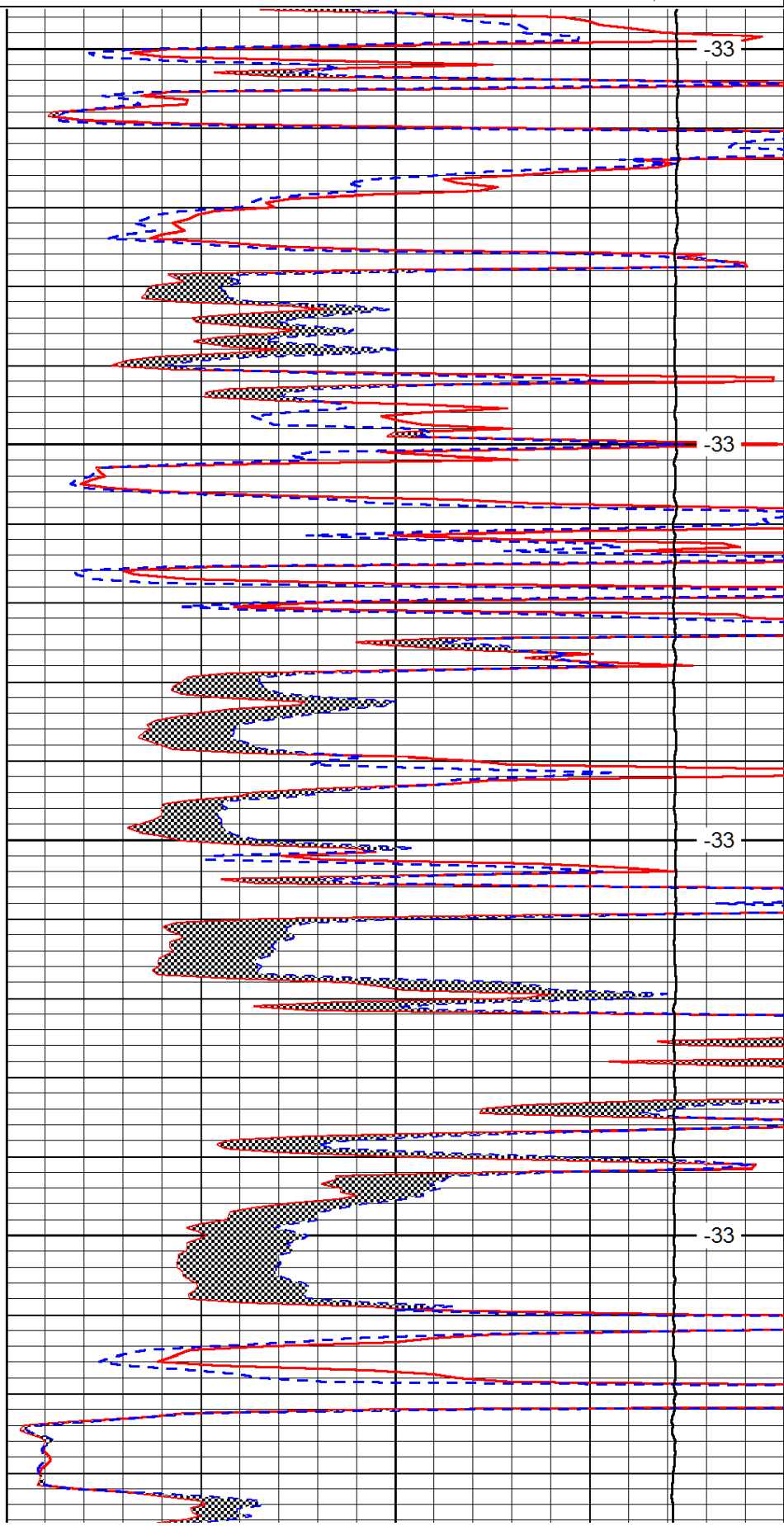
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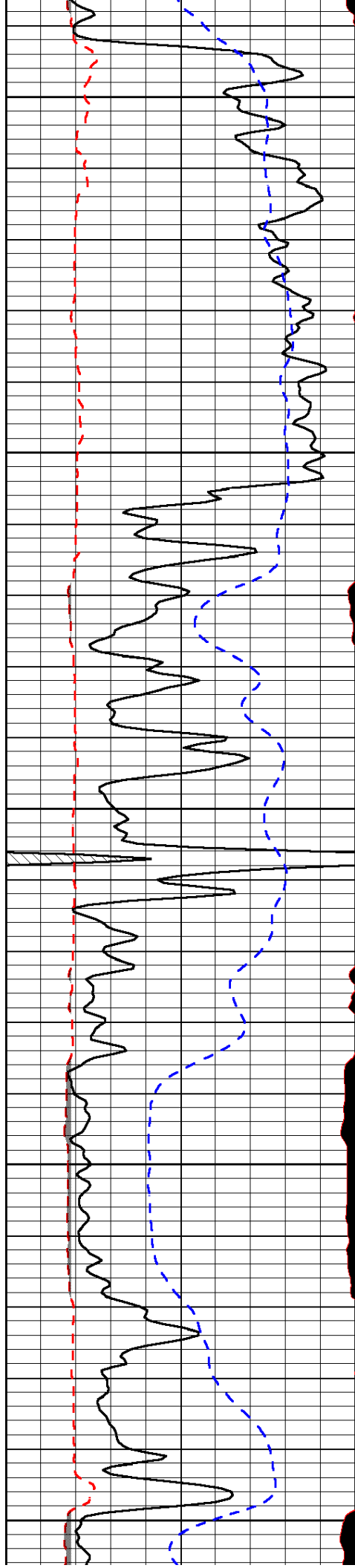
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3300

3350

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





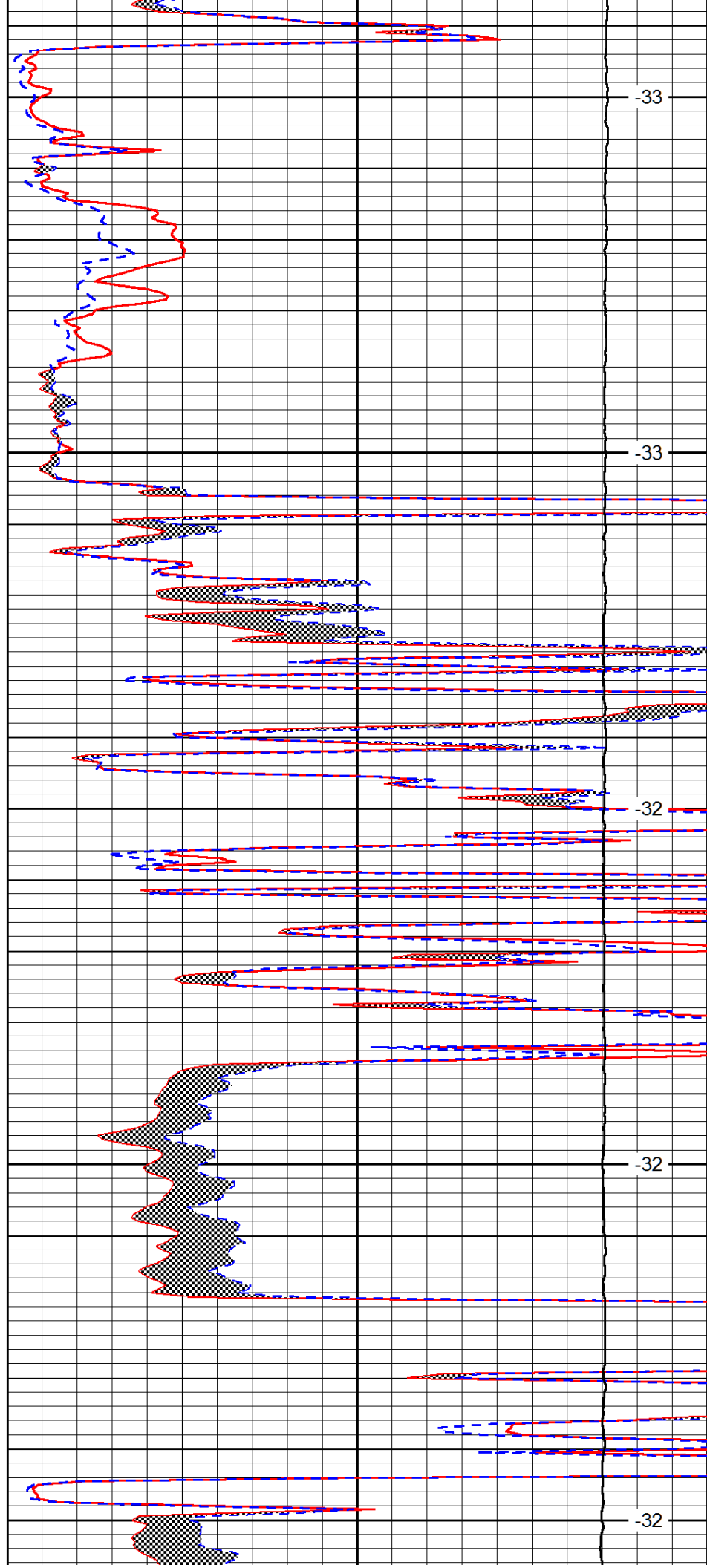
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3600



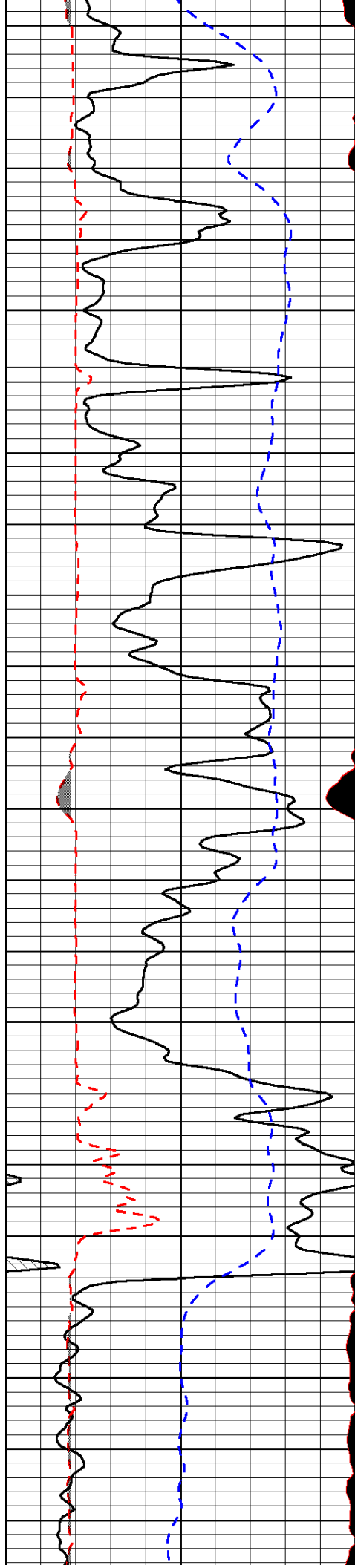
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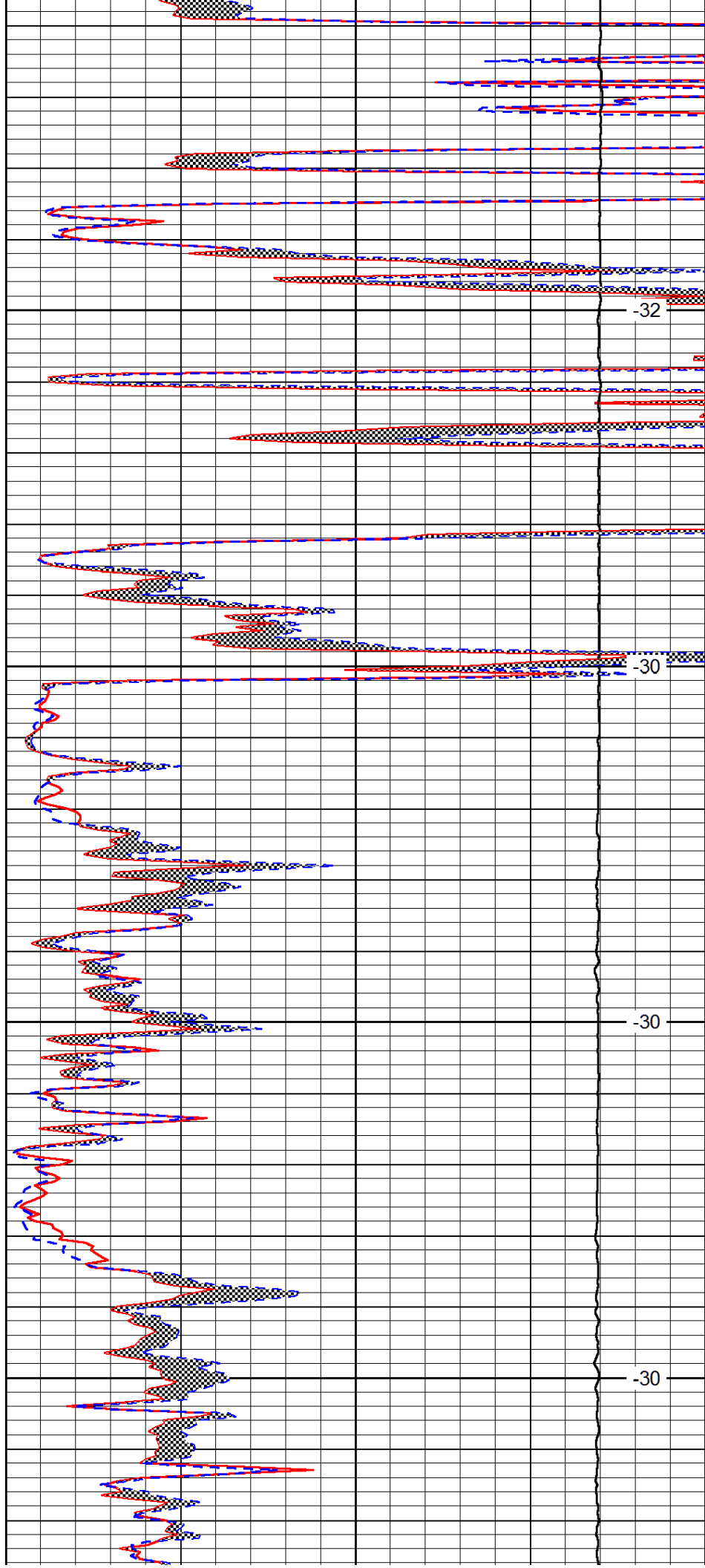


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3700

3750

3800

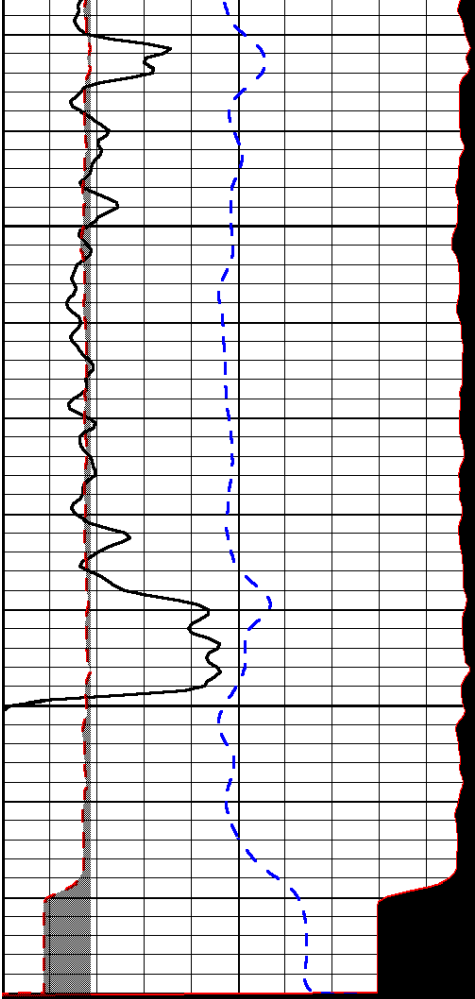


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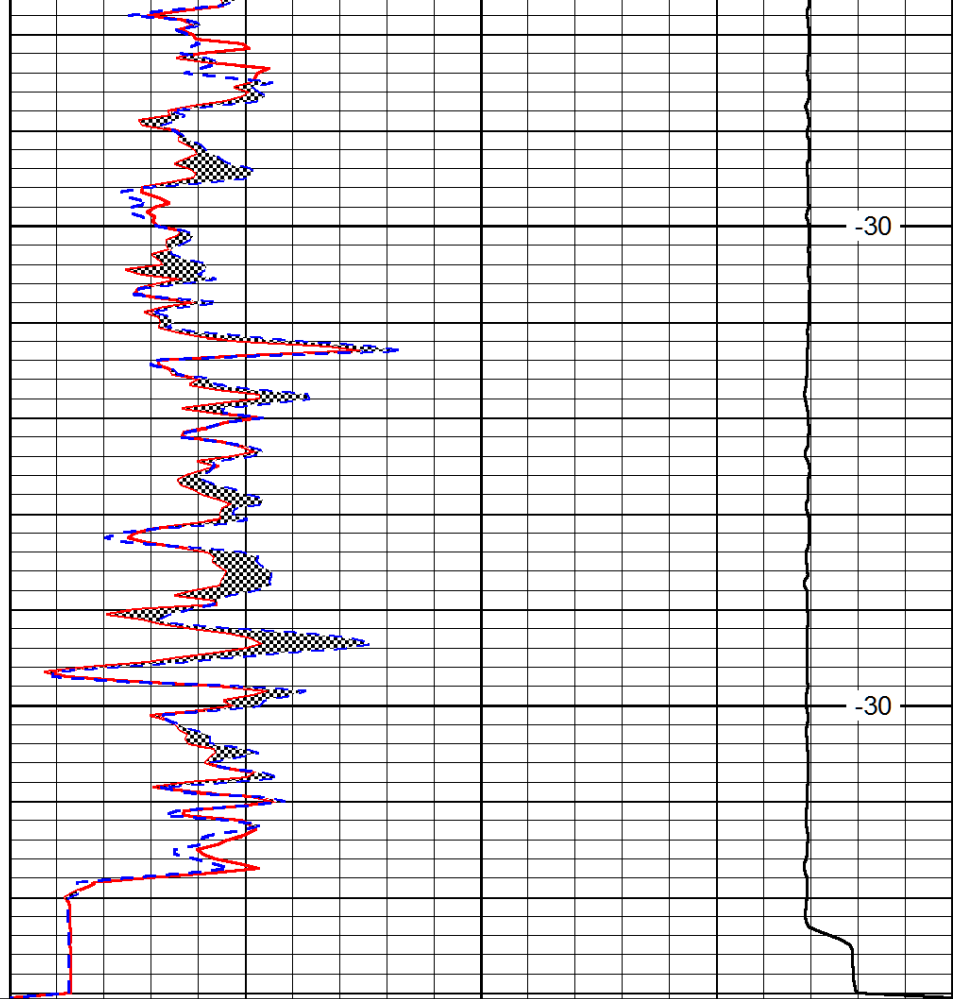
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