



Microresistivity Log

Pioneer Energy Services

API No.

15-185-23,780-00-00

Company H & B Petroleum Corporation

Well Hufford No. 7

Field

County

Stafford

State

Kansas

Location W/2 W/2 SE NW
1980' FNL & 1400' FWL

Sec: 33

Twp: 21 S

Rge: 13 W

Other Services
CNL/CDL
DIL

Permanent Datum Ground Level Elevation 1896
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date

12/22/2012

Run Number

Two

Depth Driller

3850

Depth Logger

3853

Bottom Logged Interval

3852

Top Log Interval

3100

Casing Driller

8.625 @ 615

Casing Logger

615

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

12,000

Density / Viscosity

9.5 58

pH / Fluid Loss

9.0 15.2

Source of Sample

Flowline

Rm @ Meas. Temp

.29 @ 50

Rmf @ Meas. Temp

.22 @ 50

Rmc @ Meas. Temp

.39 @ 50

Source of Rmf / Rmc

Charts

Rm @ BHT

.13 @ 115

Operating Rig Time

4 Hours

Max Rec. Temp. F

115

Equipment Number

108

Location

Hays

Recorded By

D. Martin

Witnessed By

Jim Musgrove

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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.

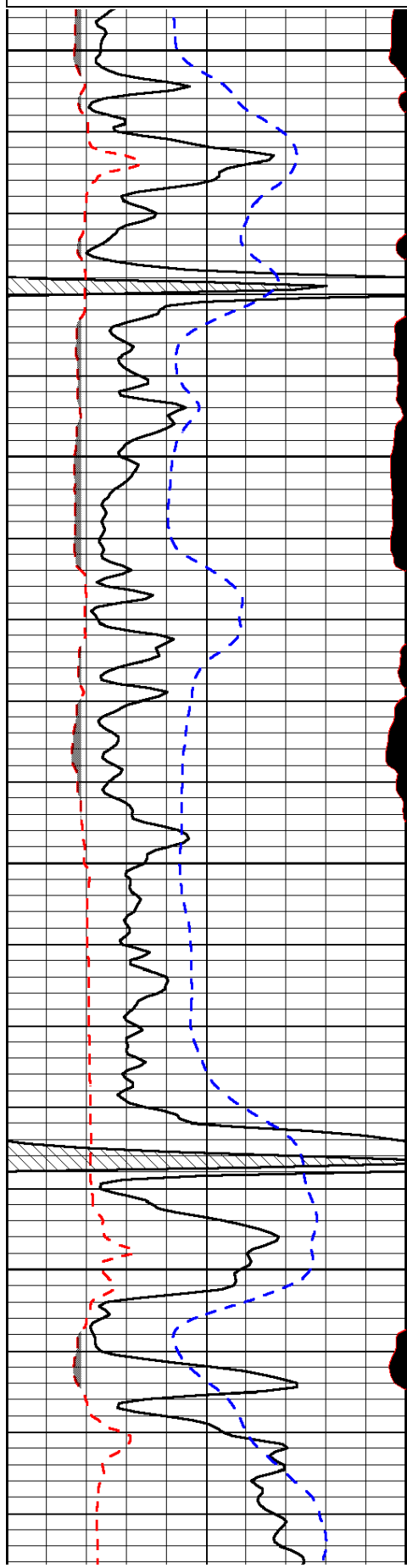
Comments

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

Hwy 281 & K-19 Junction,
2 N, 1 W, 1/2 S, E Into

Database File: h&bhd.db
Dataset Pathname: DIL/hbstk
Presentation Format: micro
Dataset Creation: Sat Dec 22 20:31:26 2012
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0



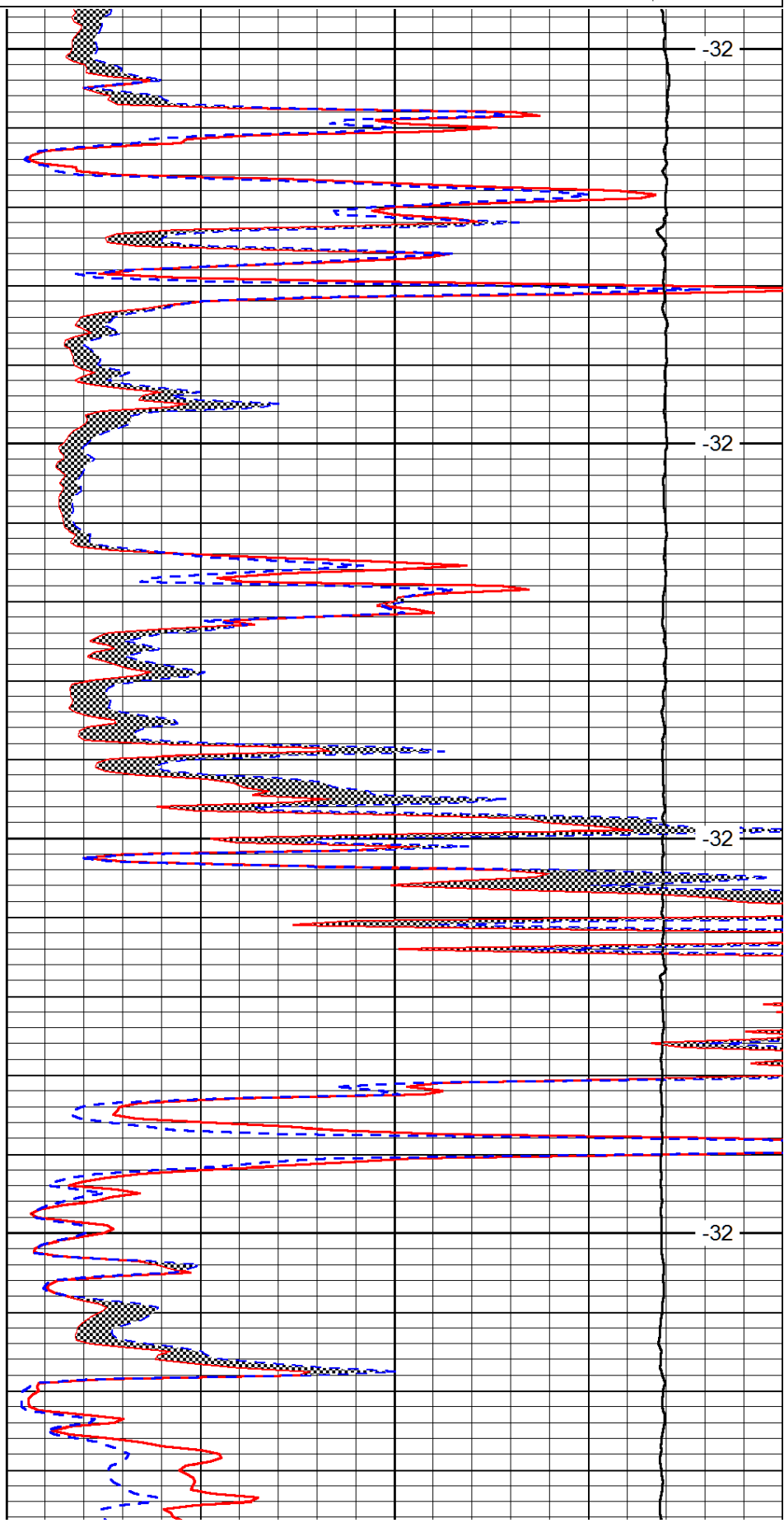
3100

3150

3200

3250

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

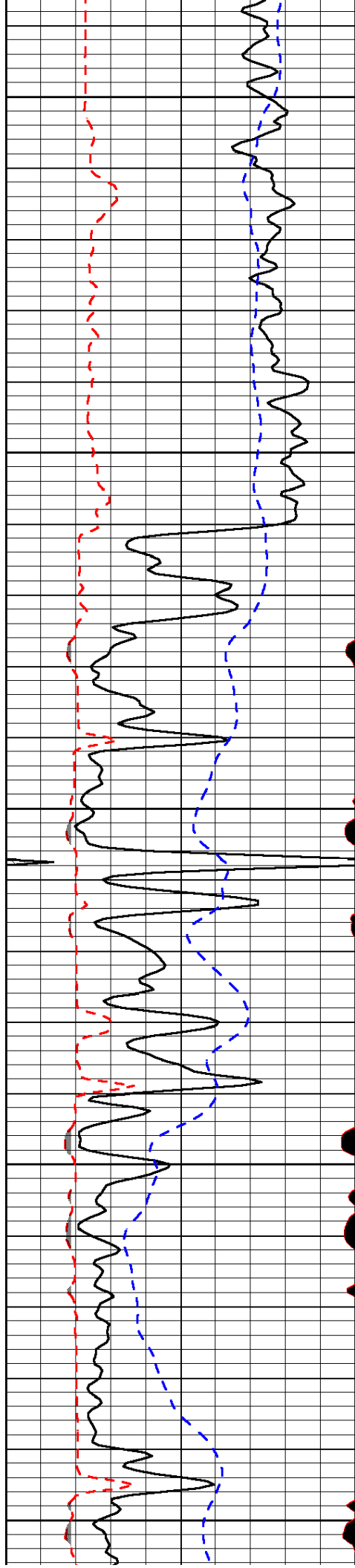


-32

-32

-32

-32



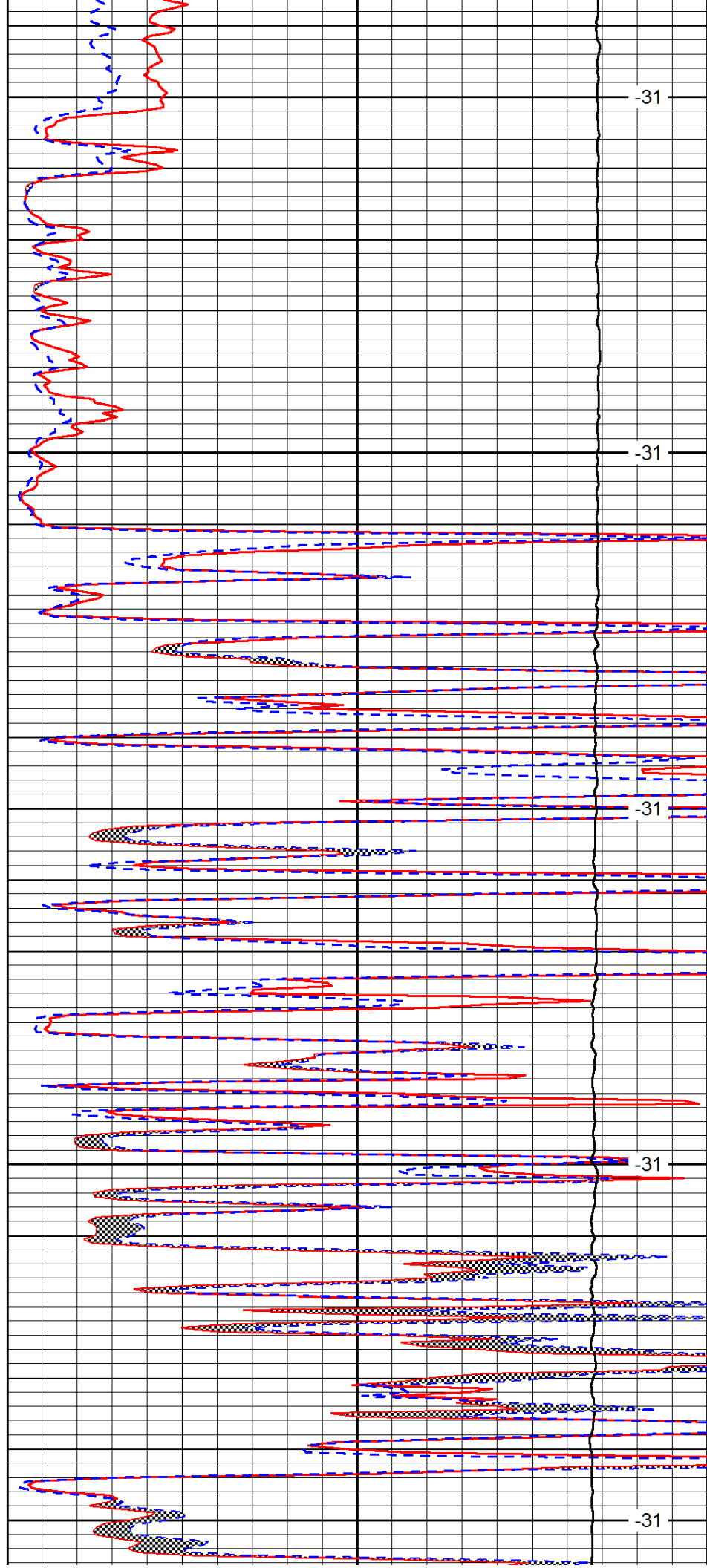
3300

3350

3400

3450

3500



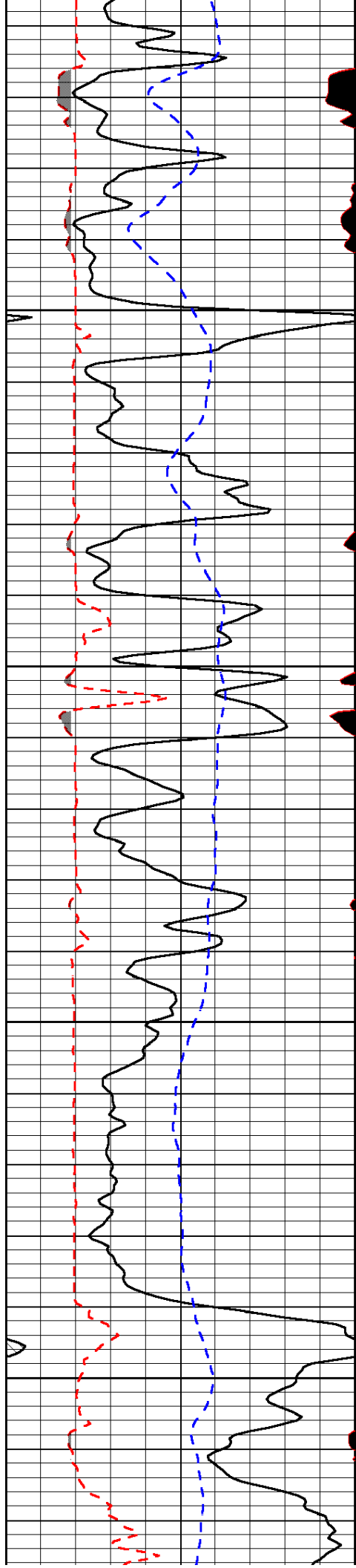
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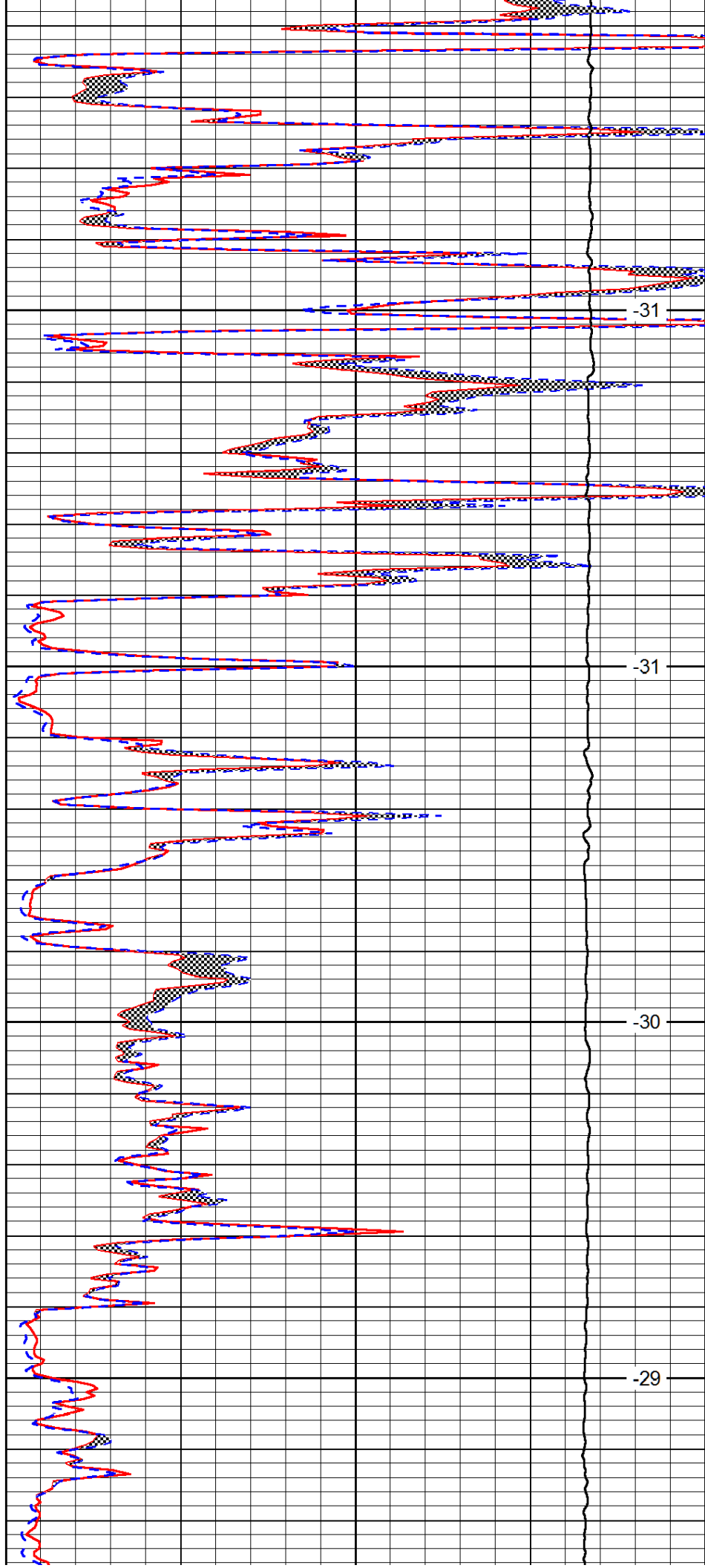


3550

3600

3650

3700

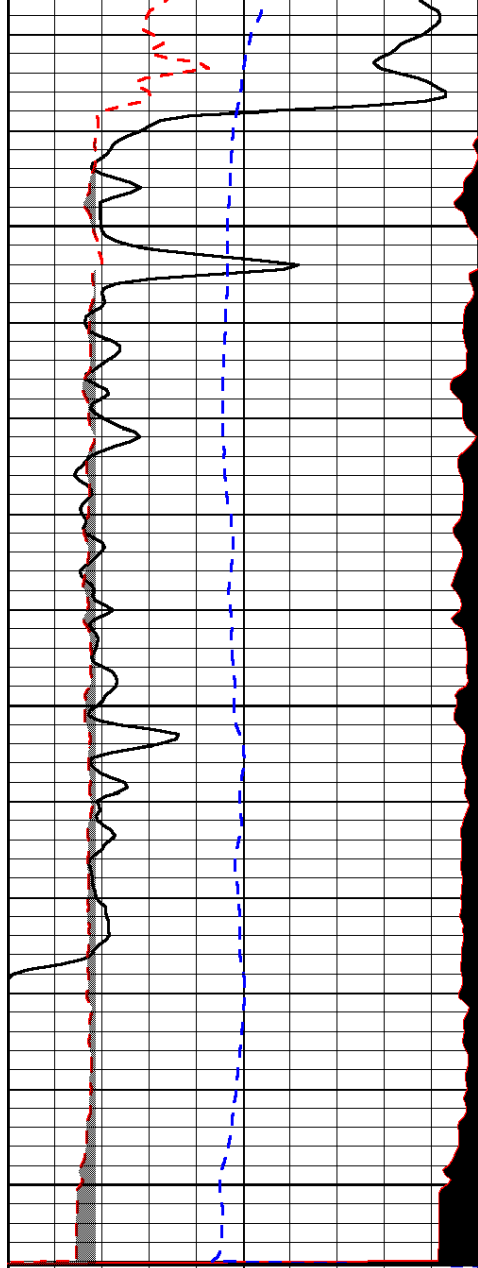


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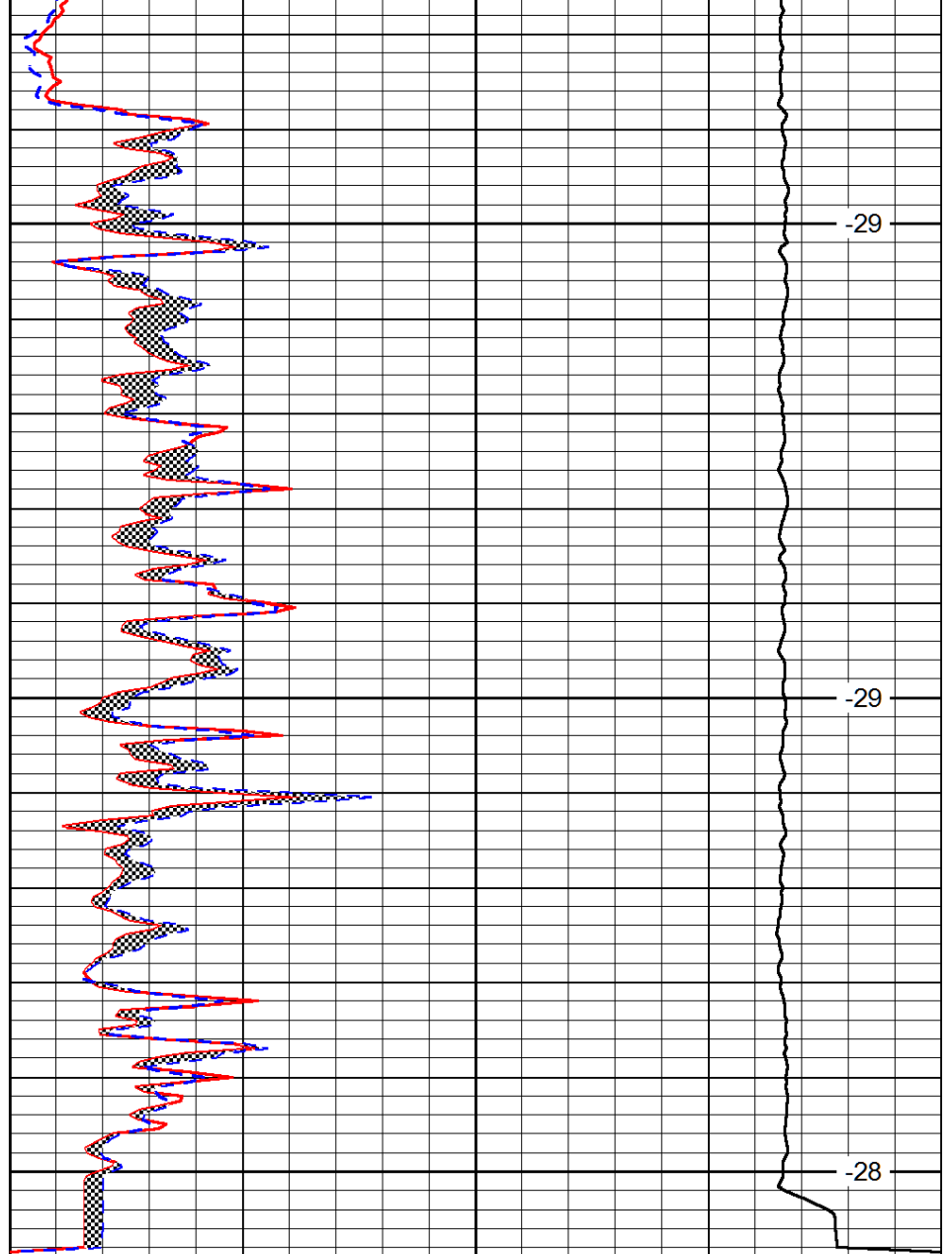


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LSPD
(ft/min)

-29

-29

-28