



Microresistivity Log

Pioneer Energy Services

API No.

15-135-25636-00-00

Company Pickrell Drilling Company, Inc.

Well Popp "A" #5

Field Lazy 17

County Ness State

Kansas

Location

1450' FSL / 330' FEL

Sec: 24

Twp: 17S

Rge: 26W

Elevation

K.B. 2458

D.F. 2451

G.L. 2451

Permanent Datum Ground Level

Elevation 2451

Log Measured From Kelly Bushing

7 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Date

7/26/2013

Run Number

Two

Depth Driller

4405

Depth Logger

4406

Bottom Logged Interval

4405

Top Log Interval

3600

Casing Driller

8.625 @ 215

Casing Logger

218

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

2600

Density / Viscosity

9.2 52

pH / Fluid Loss

10.0 8.0

Source of Sample

Flowline

Rm @ Meas. Temp

0.60 @ 80

Rmf @ Meas. Temp

0.45 @ 80

Rmc @ Meas. Temp

0.81 @ 80

Source of Rmf / Rmc

Charts

Rm @ BHT

0.40 @ 120

Operating Rig Time

4 Hours

Max Rec. Temp. F

120

Equipment Number

15

Location

Hays

Recorded By

R. Barnhart

Witnessed By

Jerry A. Smith

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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.

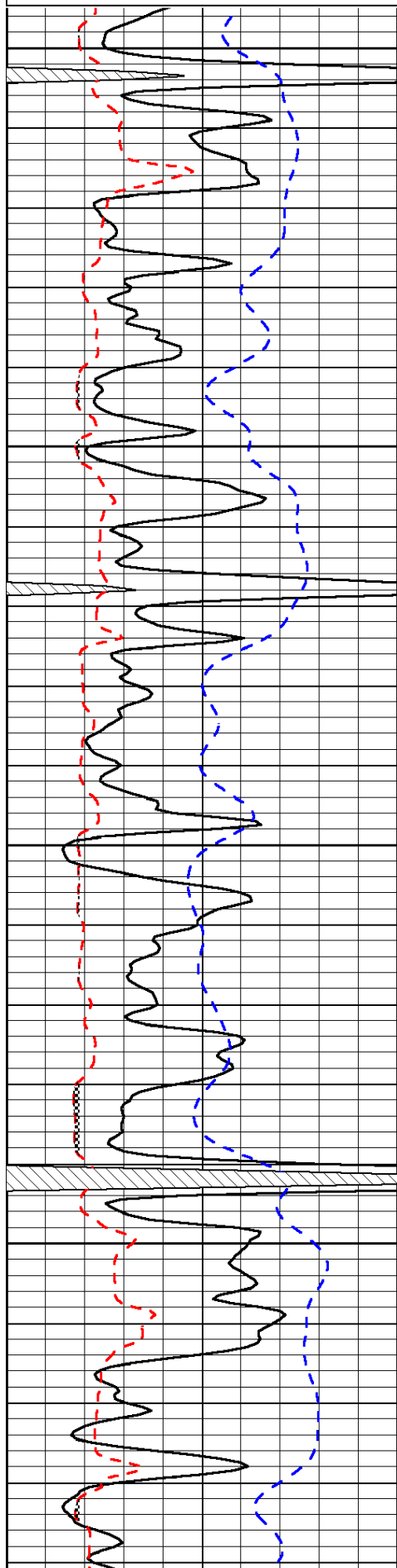
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Utica, KS:
1E to E Rd., 6S to 200 Rd., 7/8E, N into

Database File: c:\warrior\data\pickrell_popp a #5\pickrell_hd.db
Dataset Pathname: dil/pckmain
Presentation Format: micro
Dataset Creation: Fri Jul 26 20:32:50 2013
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

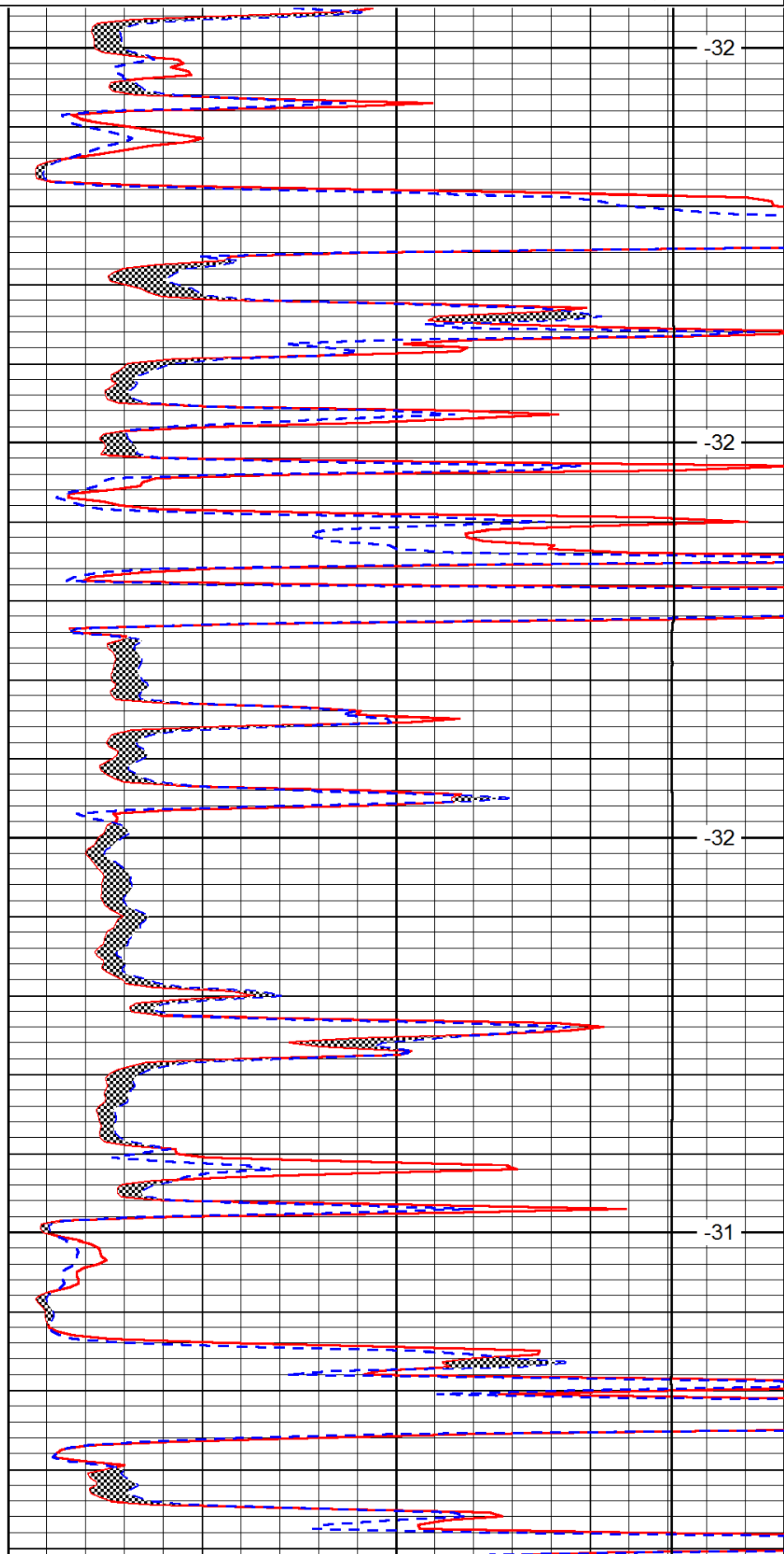


3600

3650

3700

3750



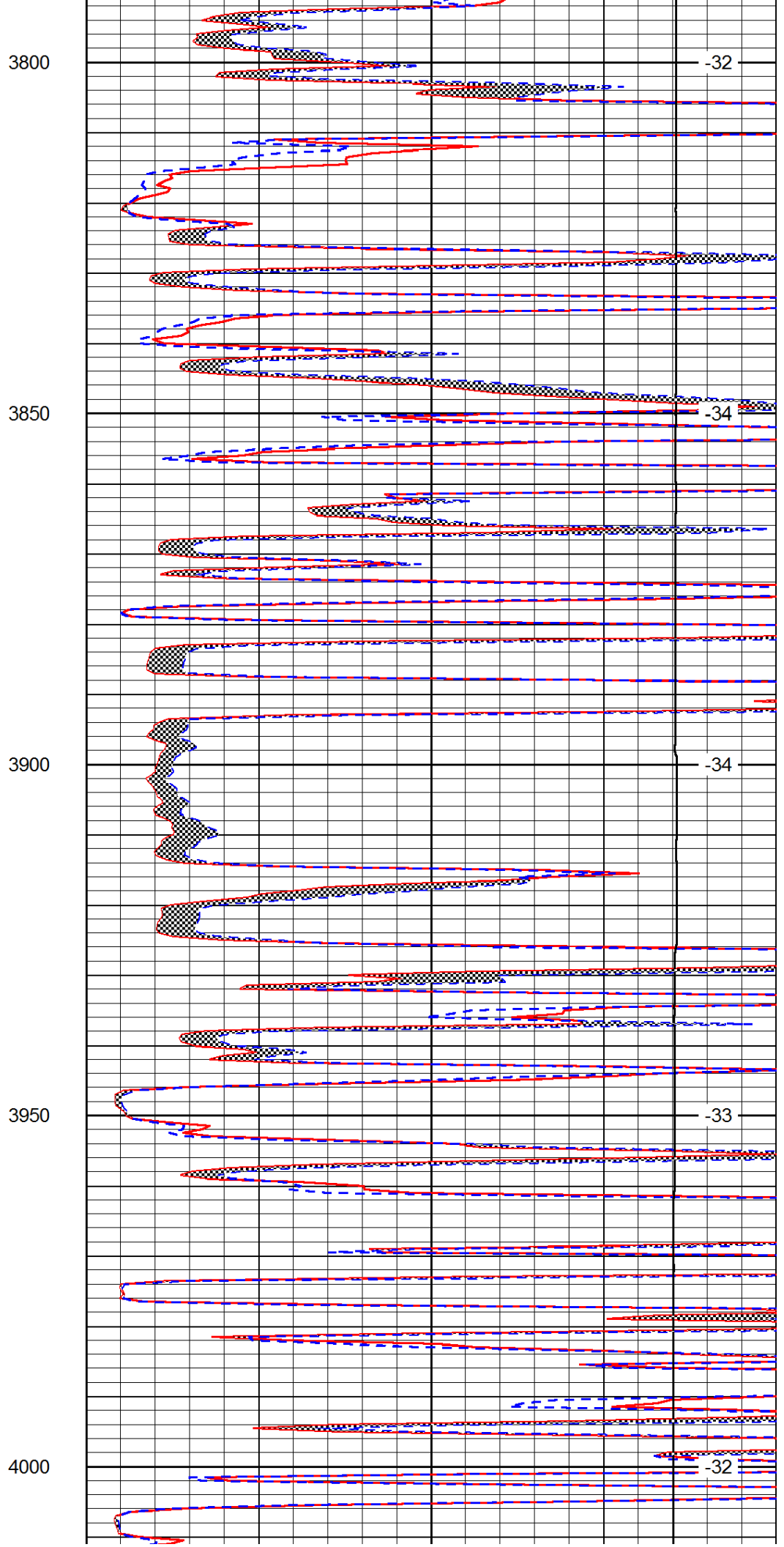
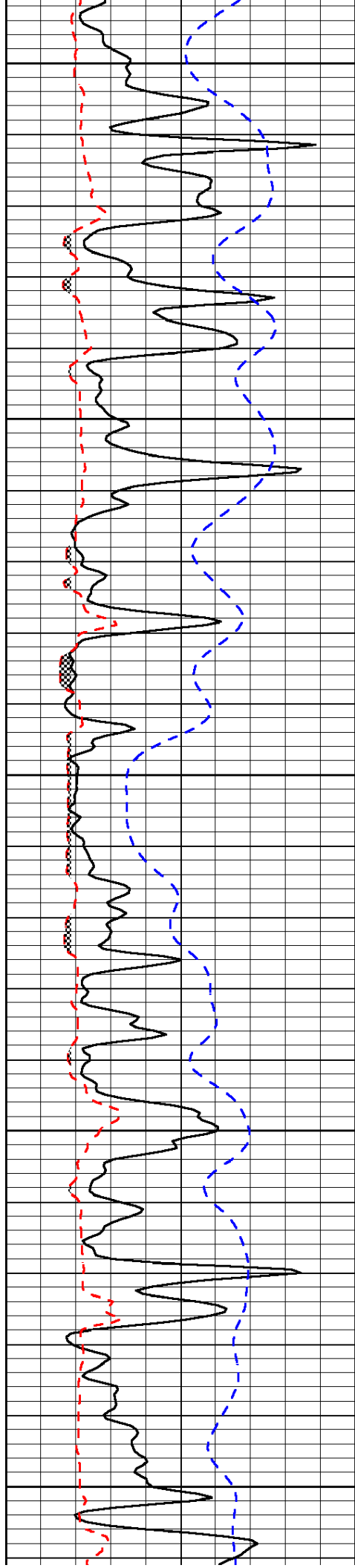
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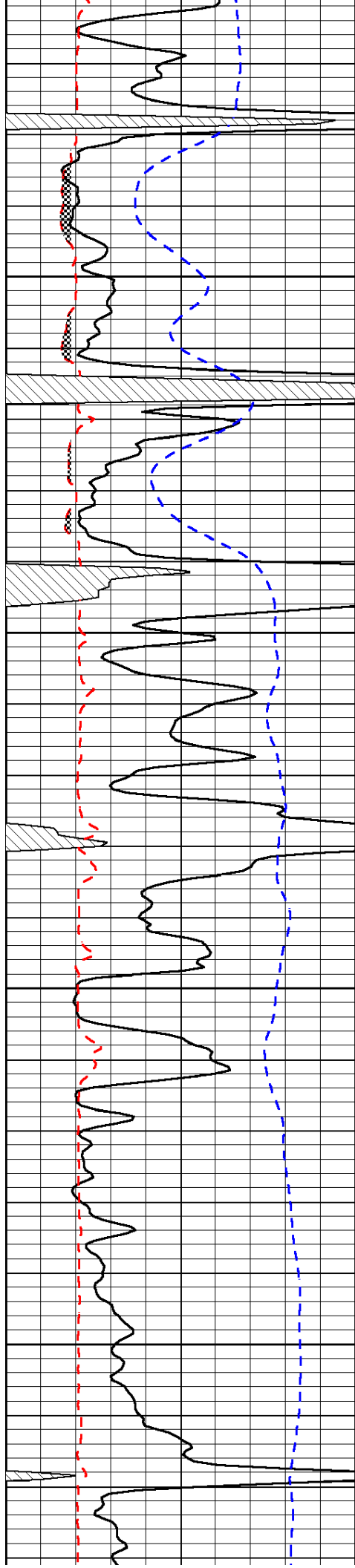
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LSPD



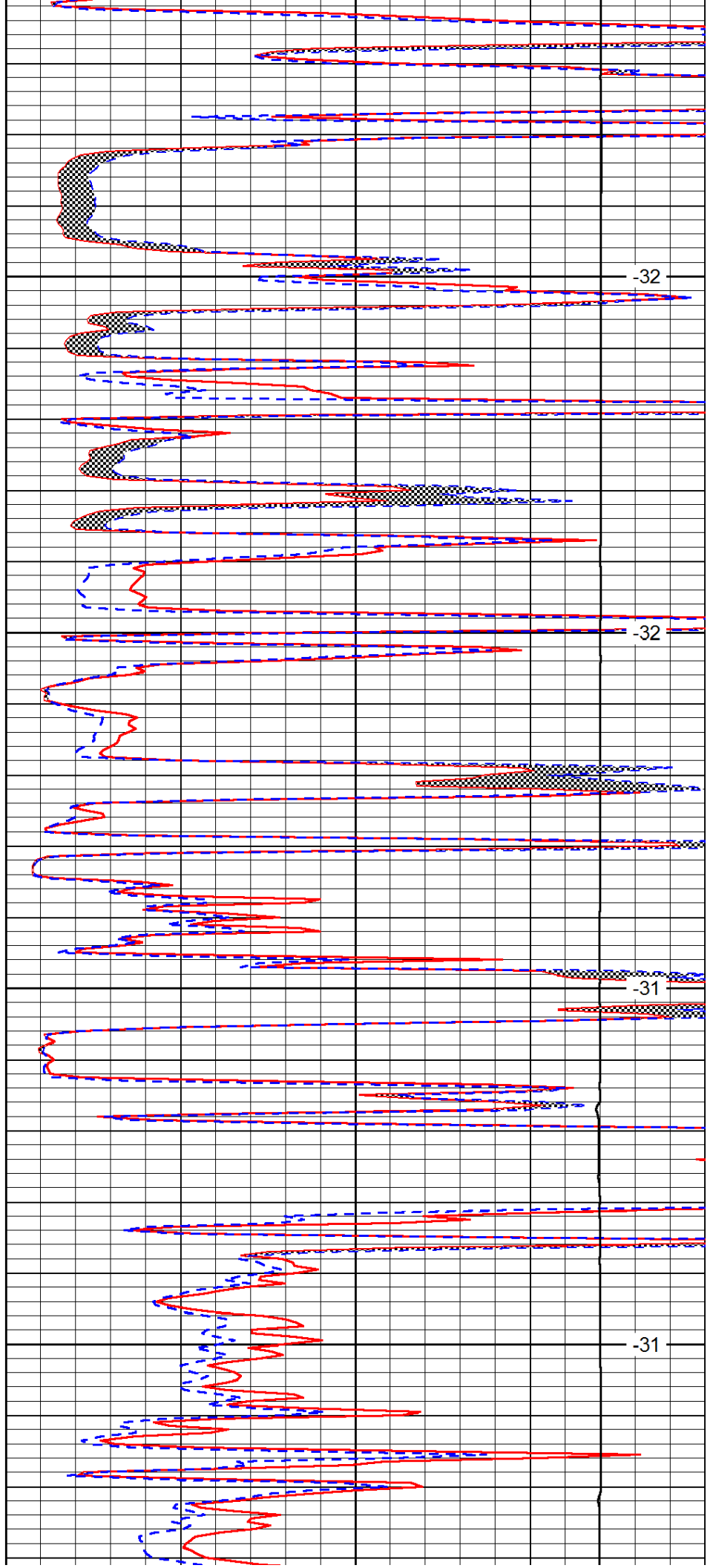


4050

4100

4150

4200



-32

-32

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-31

