



Microresistivity Log

Pioneer Energy Services

API No.

15-101-22,465-00-00

Company Larson Engineering, Inc.

Well Shapland A # 1-27

Field Wildcat

County Lane State

Kansas

Location

SW-SW-NE-NW
1190' FNL & 1414' FWL

Sec: 27

Twp: 18S

Rge: 28W

Permanent Datum Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation 2704
7 Ft. Above Perm. Datum

Other Services
CNL/CDL
DIL

Elevation
K.B. 2711
D.F. 2704
G.L. 2704

Date 10/29/13

Run Number Two

Depth Driller 4605

Depth Logger 4608

Bottom Logged Interval 4607

Top Log Interval 3600

Casing Driller 8.625 @ 276

Casing Logger 273

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 3,200

Density / Viscosity 9.3 64

pH / Fluid Loss 11.0 7.6

Source of Sample Flowline

Rm @ Meas. Temp .70 @ 66

Rmf @ Meas. Temp .53 @ 66

Rmc @ Meas. Temp .95 @ 66

Source of Rmf / Rmc Charts

Rm @ BHT .38 @ 122

Operating Rig Time 4 Hours

Max Rec. Temp. F 122

Equipment Number 108

Location Hays

Recorded By J. Henrickson

Witnessed By Vern Schrag

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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

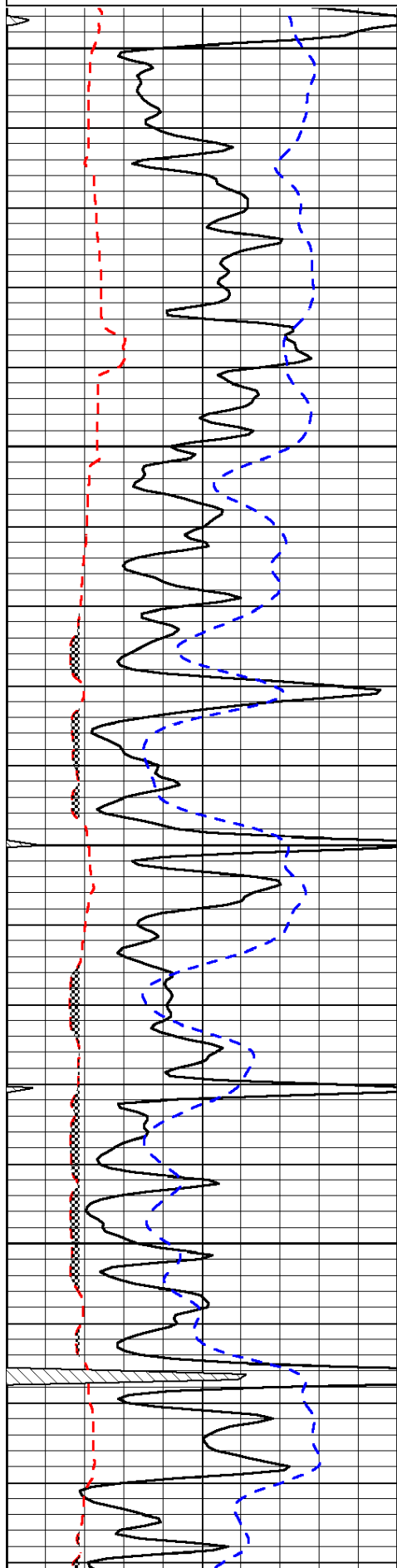
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Dighton Kansas
2 East, 2 South, 1 East, North Into

Database File: c:\warrior\data\larson_shapland a # 1-27\larson_shapland_a_1_27hd.db
Dataset Pathname: DIL\larstk
Presentation Format: micro
Dataset Creation: Wed Oct 30 02:13:50 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

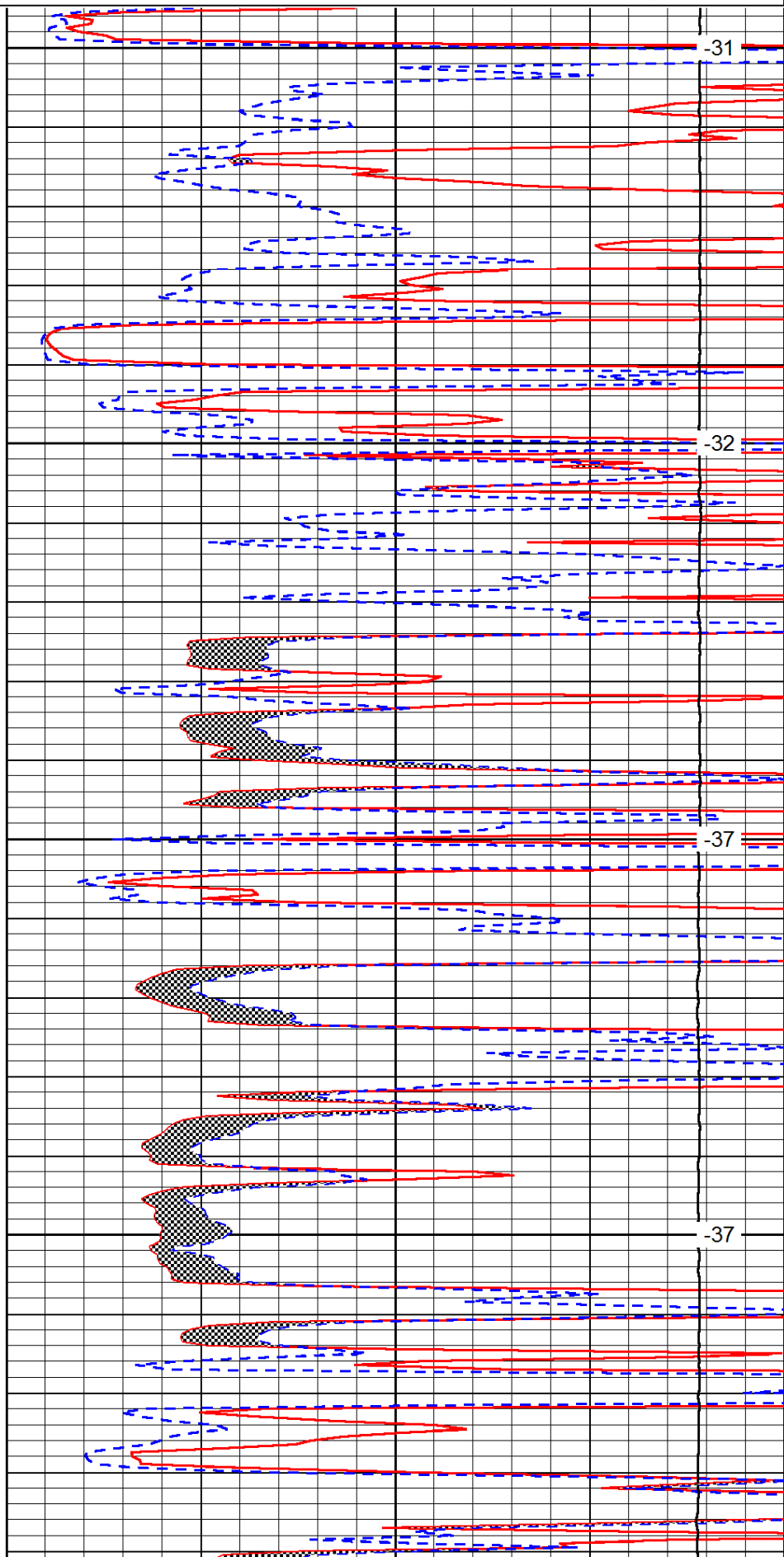
3650

3700

3750

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD

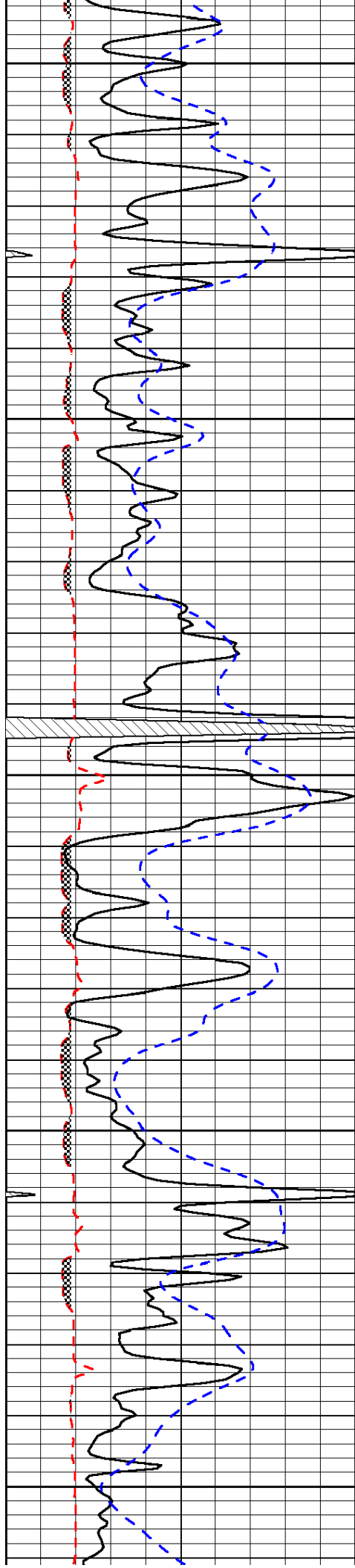


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-32

-37

-37



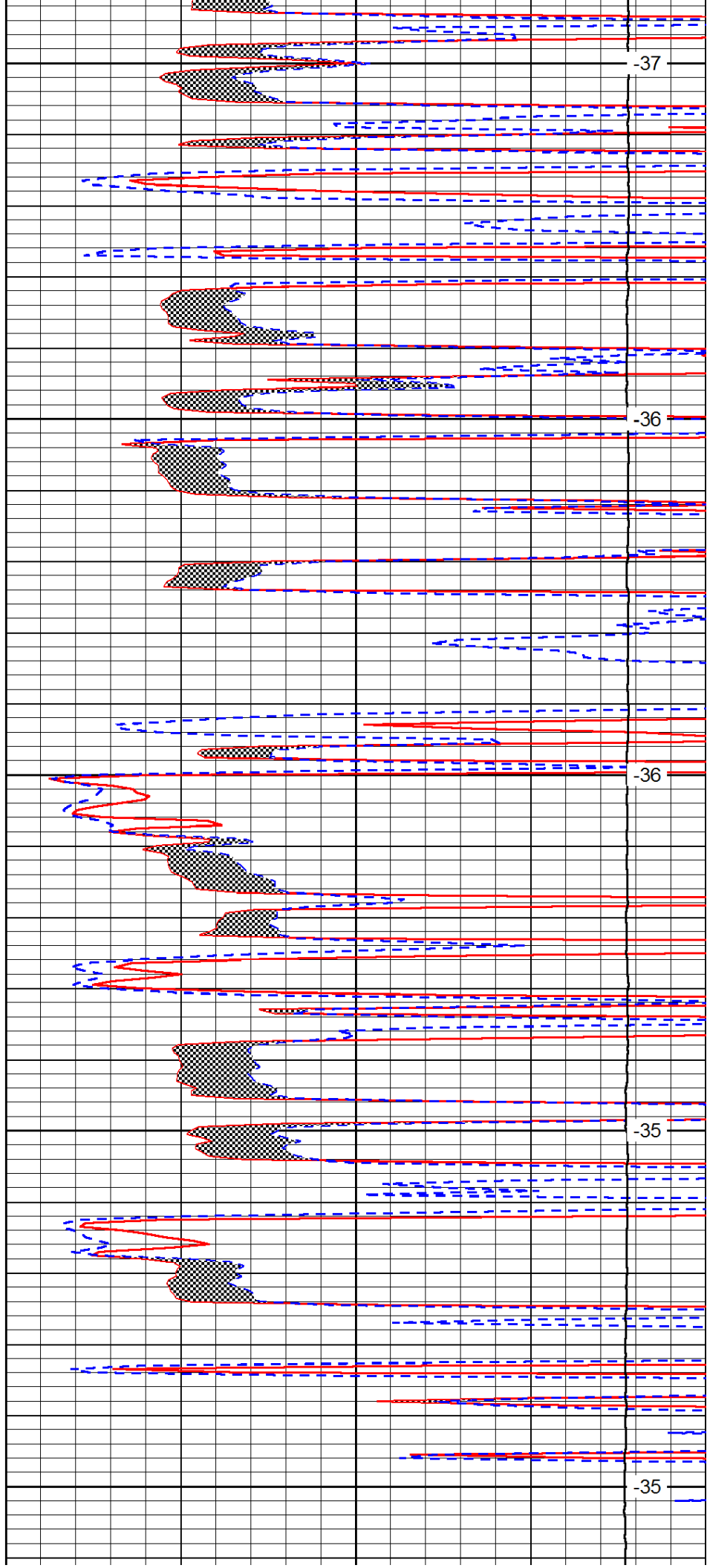
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3850

3900

3950

4000



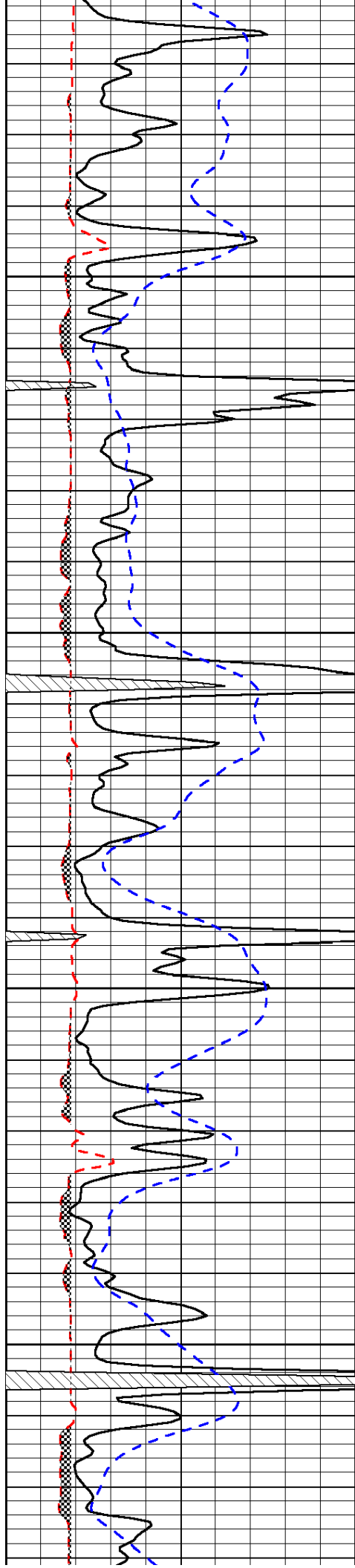
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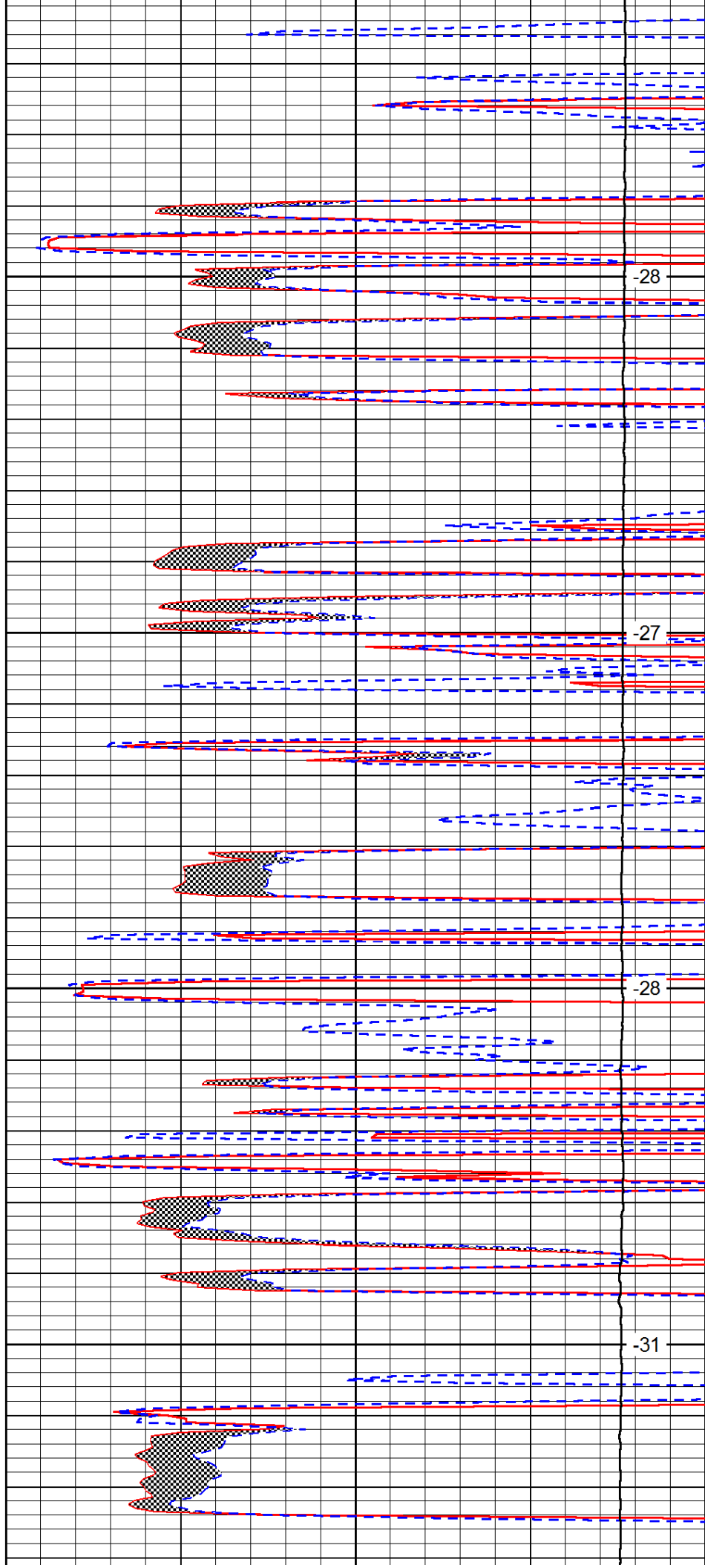


4050

4100

4150

4200

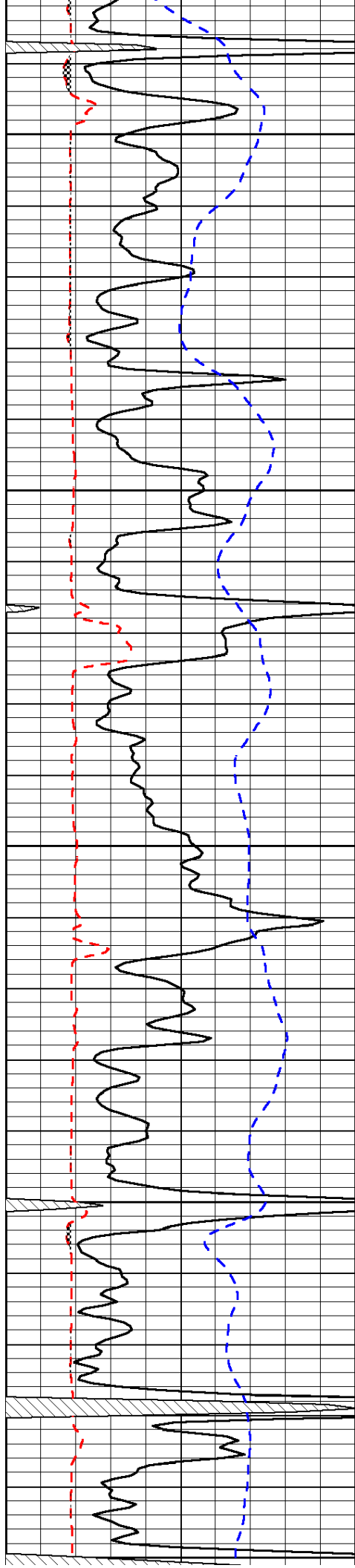


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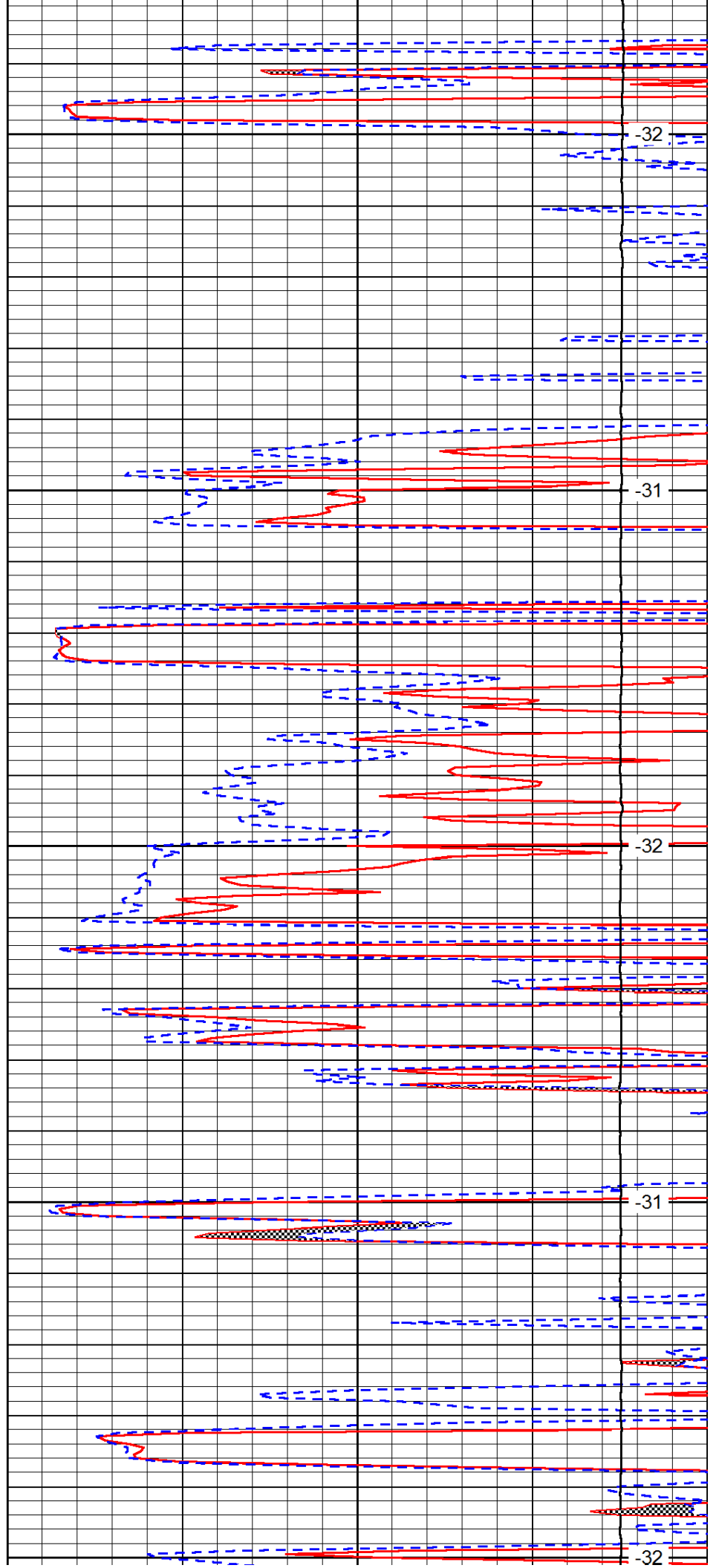
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4300

4350

4400

4450



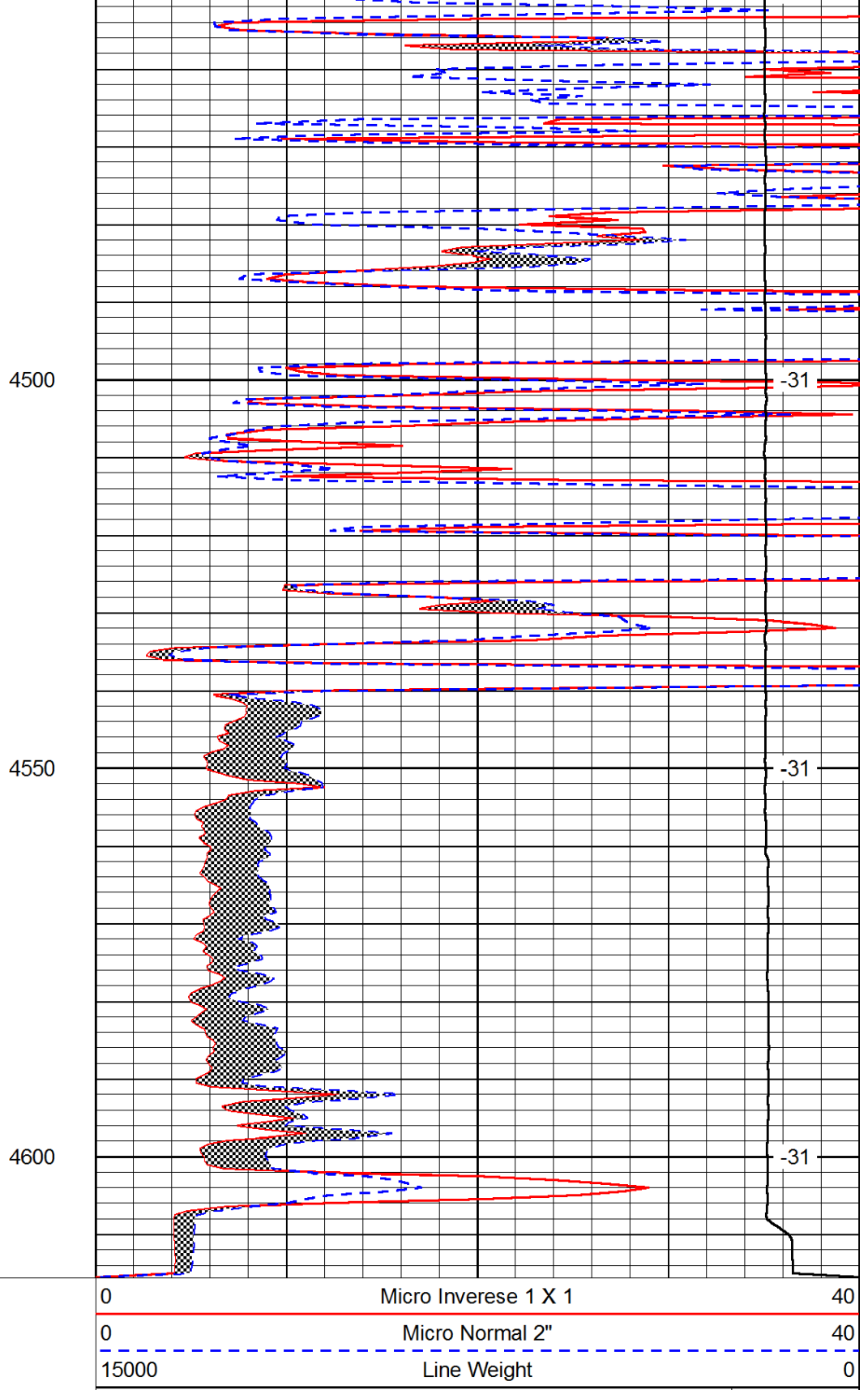
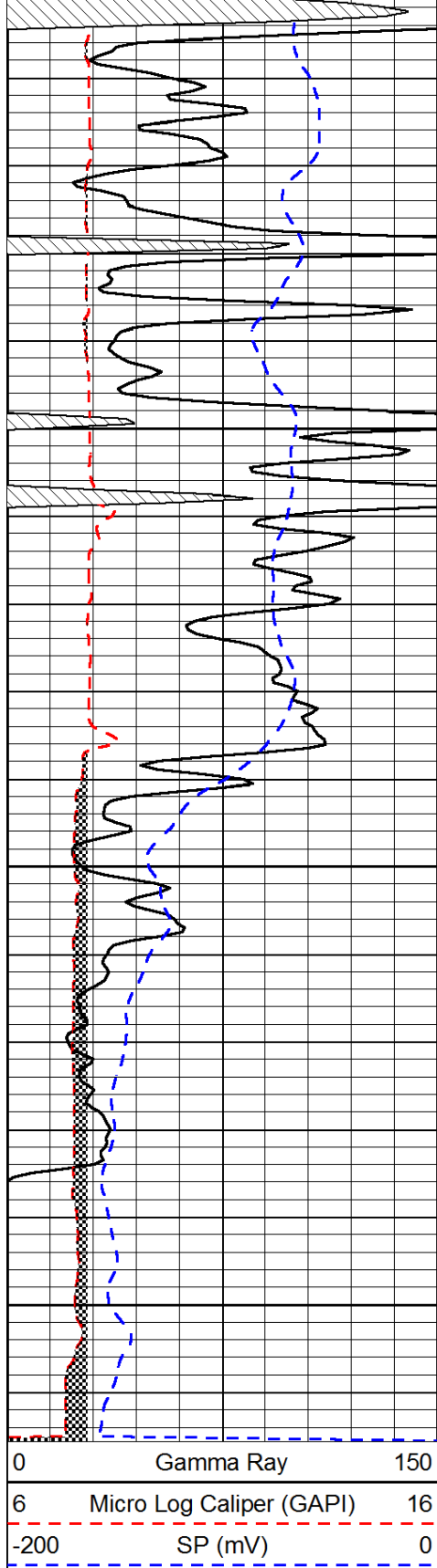
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LSPD