



Microresistivity Log

Pioneer Energy Services

API No.

15-009-26-049-00-00

Company Zinszer Oil Company, Inc.

Well Frees / Burmeister #14

Field Kraft-Prusa

County Barton State Kansas

Location E2-W2-NE-NE
660' FNL & 825' FEL

Sec: 3 Twp: 17S Rge: 11W

Permanent Datum Ground Level Elevation 1937

Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
RAG

Elevation
K.B. 1945
D.F. 1937
G.L. 1937

Date 11/11/2014

Run Number Two

Depth Driller 3363

Depth Logger 3360

Bottom Logged Interval 3359

Top Log Interval 2600

Casing Driller 8.625 @ 760

Casing Logger 760

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 5.000

Density / Viscosity 9.3 49

pH / Fluid Loss 9.0 8.8

Source of Sample Flowline

Rm @ Meas. Temp .56 @ 41

Rmf @ Meas. Temp .42 @ 41

Rmc @ Meas. Temp .75 @ 41

Source of Rmf / Rmc Charts

Rm @ BHT .21 @ 110

Operating Rig Time 4 Hours

Max Rec. Temp. F 110

Equipment Number 10

Location Hays

Recorded By J. Henrickson

Witnessed By Steve Reed

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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

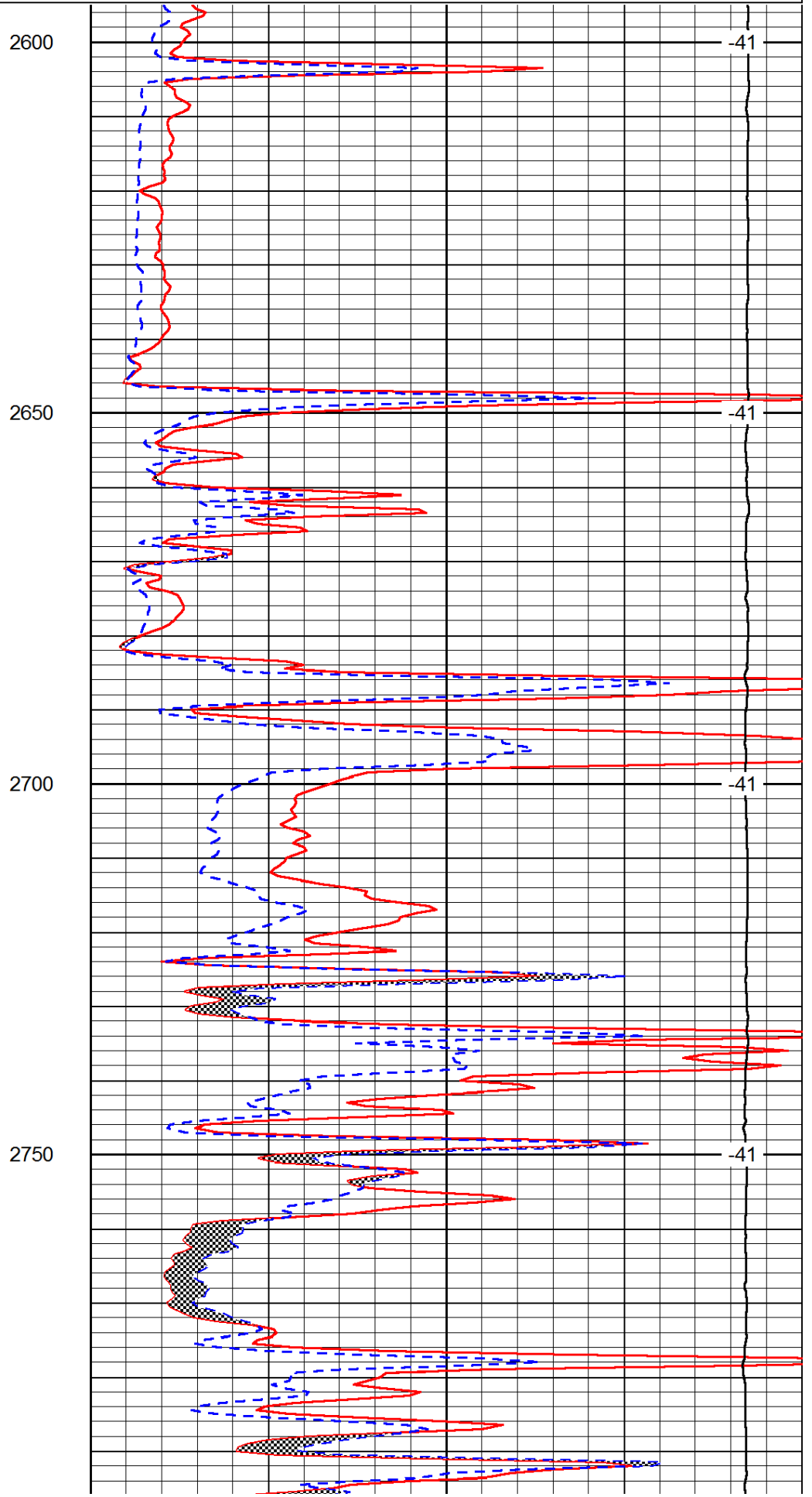
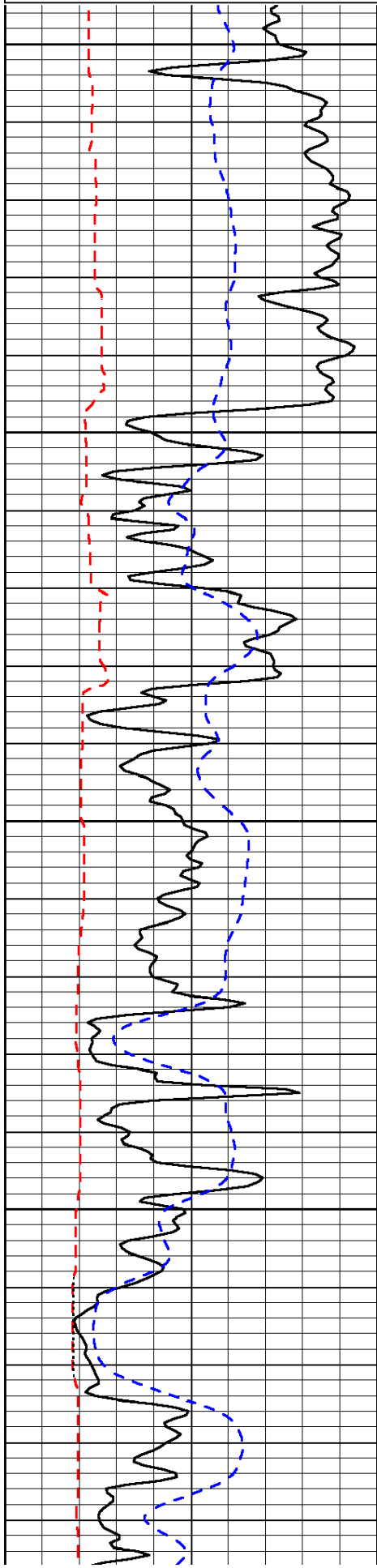
Wilson Kansas
South to 170 Rd, 2 1/4 West, South Into

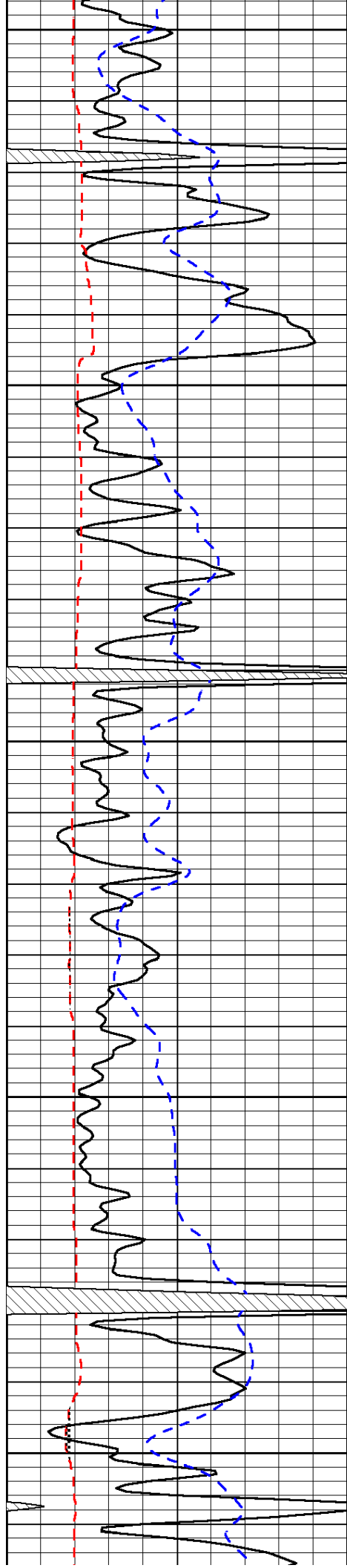
Database File: c:\warrior\data\zinszer_frees-burmeister #14\zinszer_frees_burmeister_14hd.db
Dataset Pathname: RAG/zinrag
Presentation Format: micro
Dataset Creation: Tue Nov 11 21:17:52 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	MCAL (GAPI)	16
-200	SP (mV)	0

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

LSPD





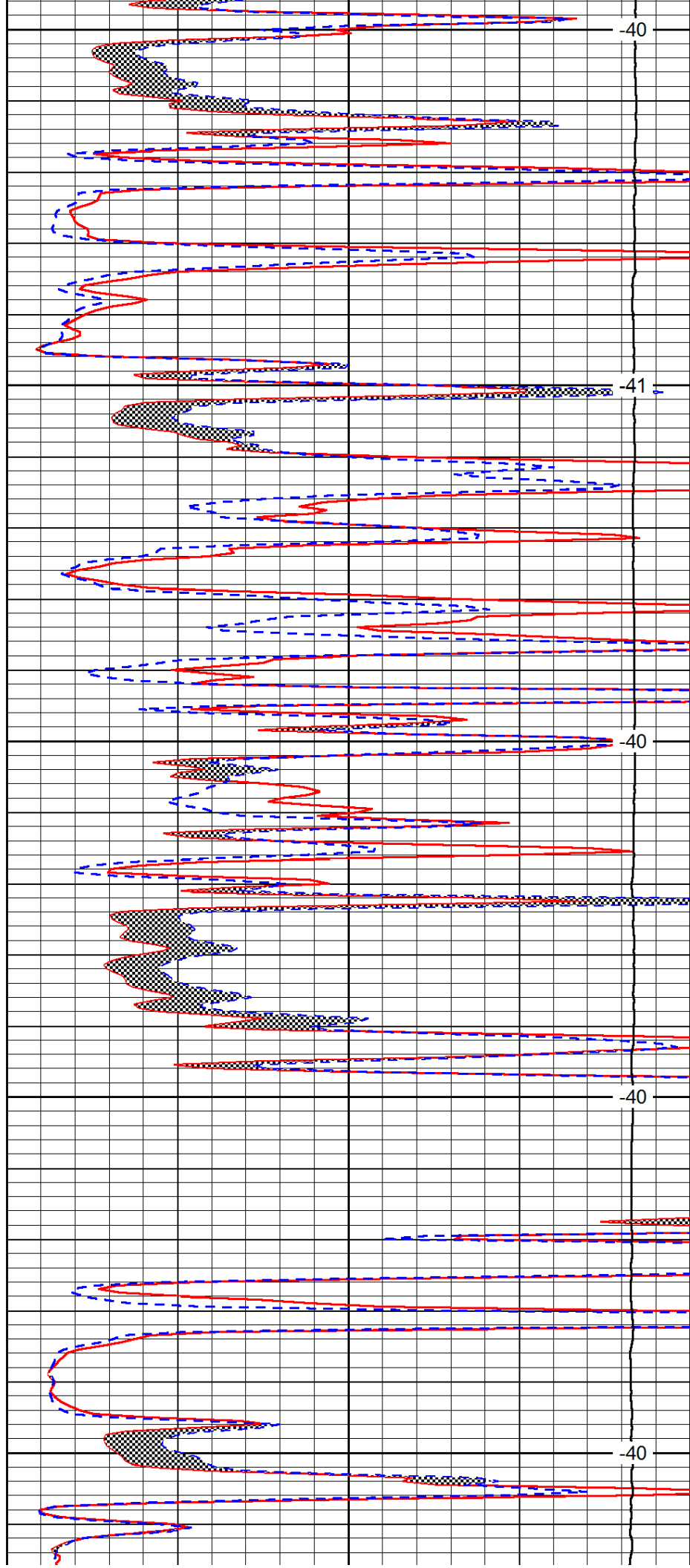
2800

2850

2900

2950

3000



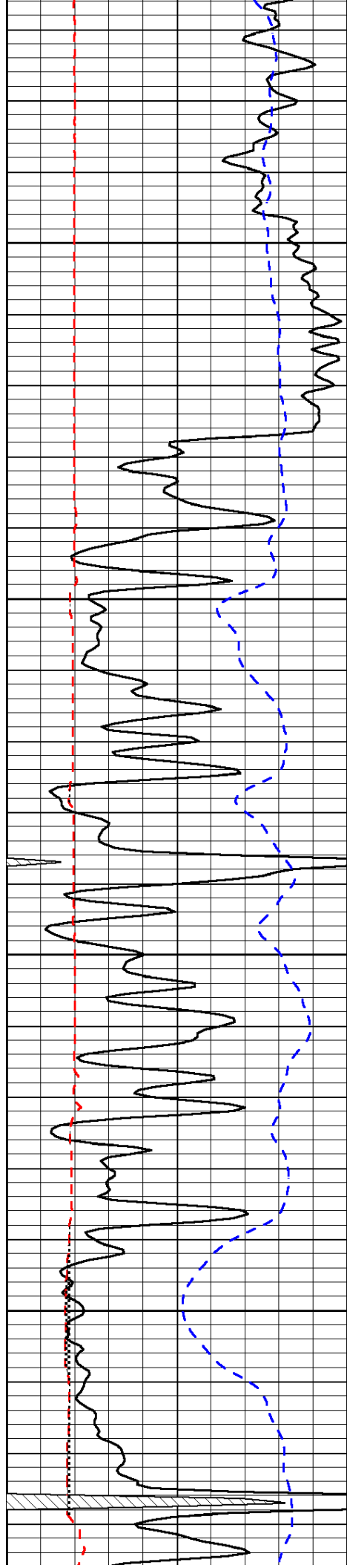
-40

-41

-40

-40

-40

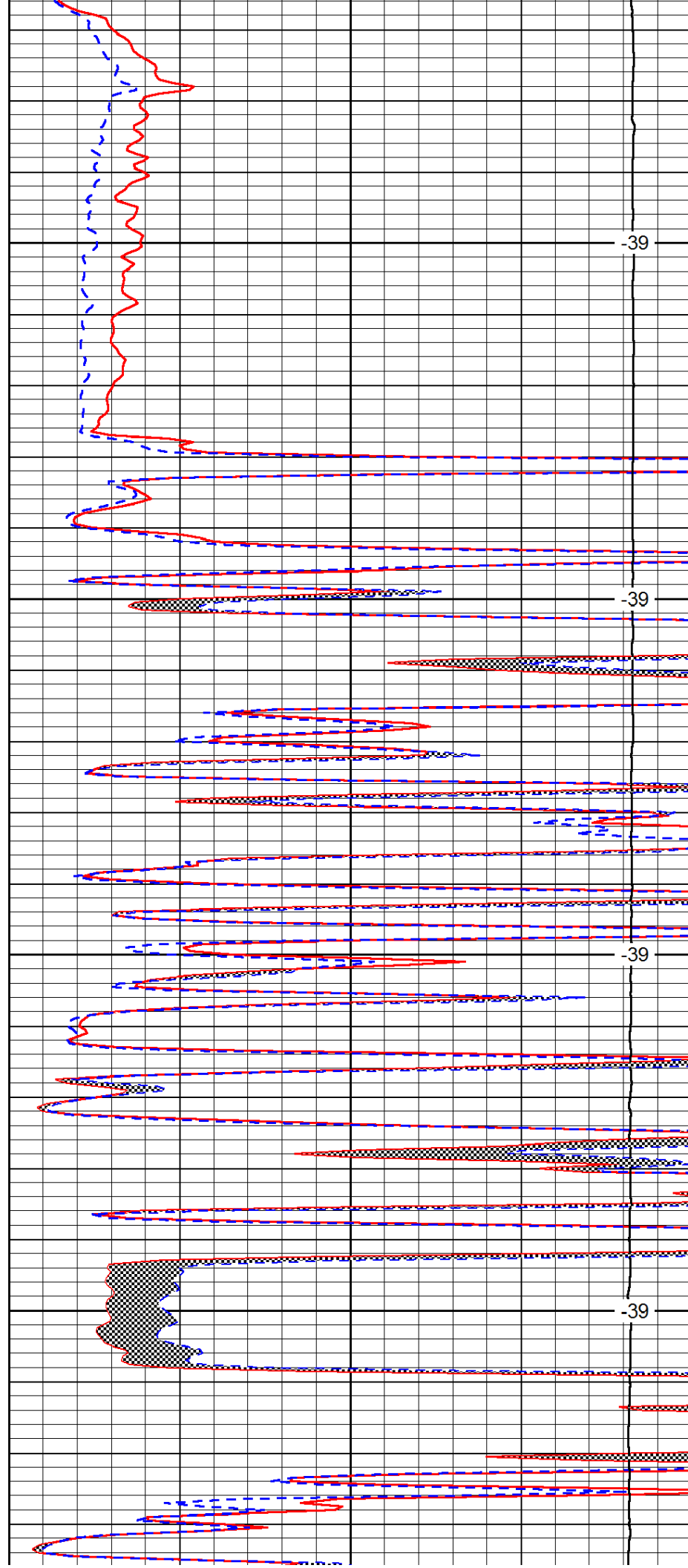


3050

3100

3150

3200

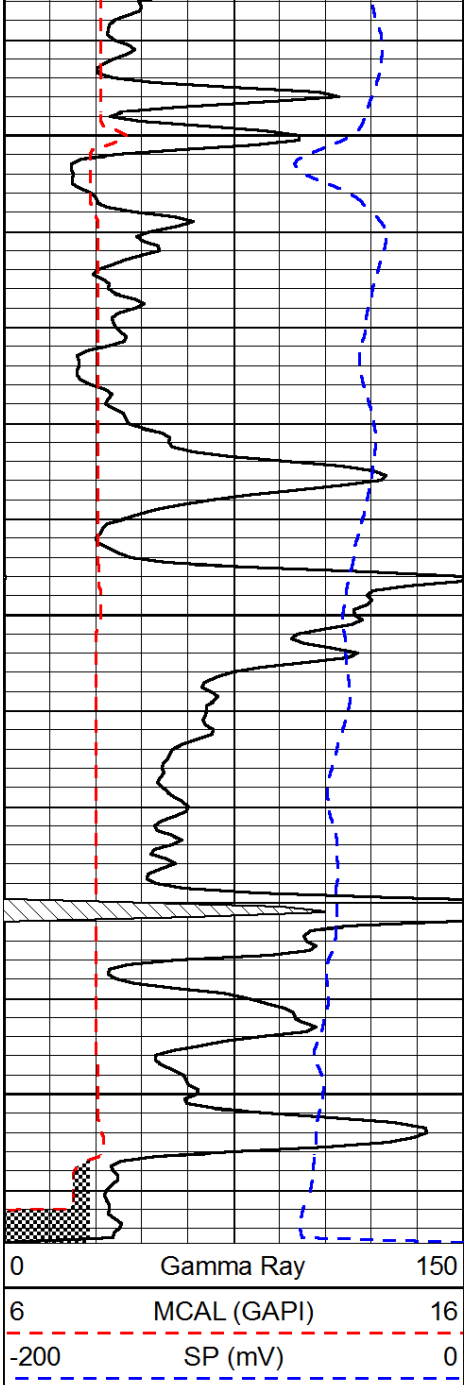


-39

-39

-39

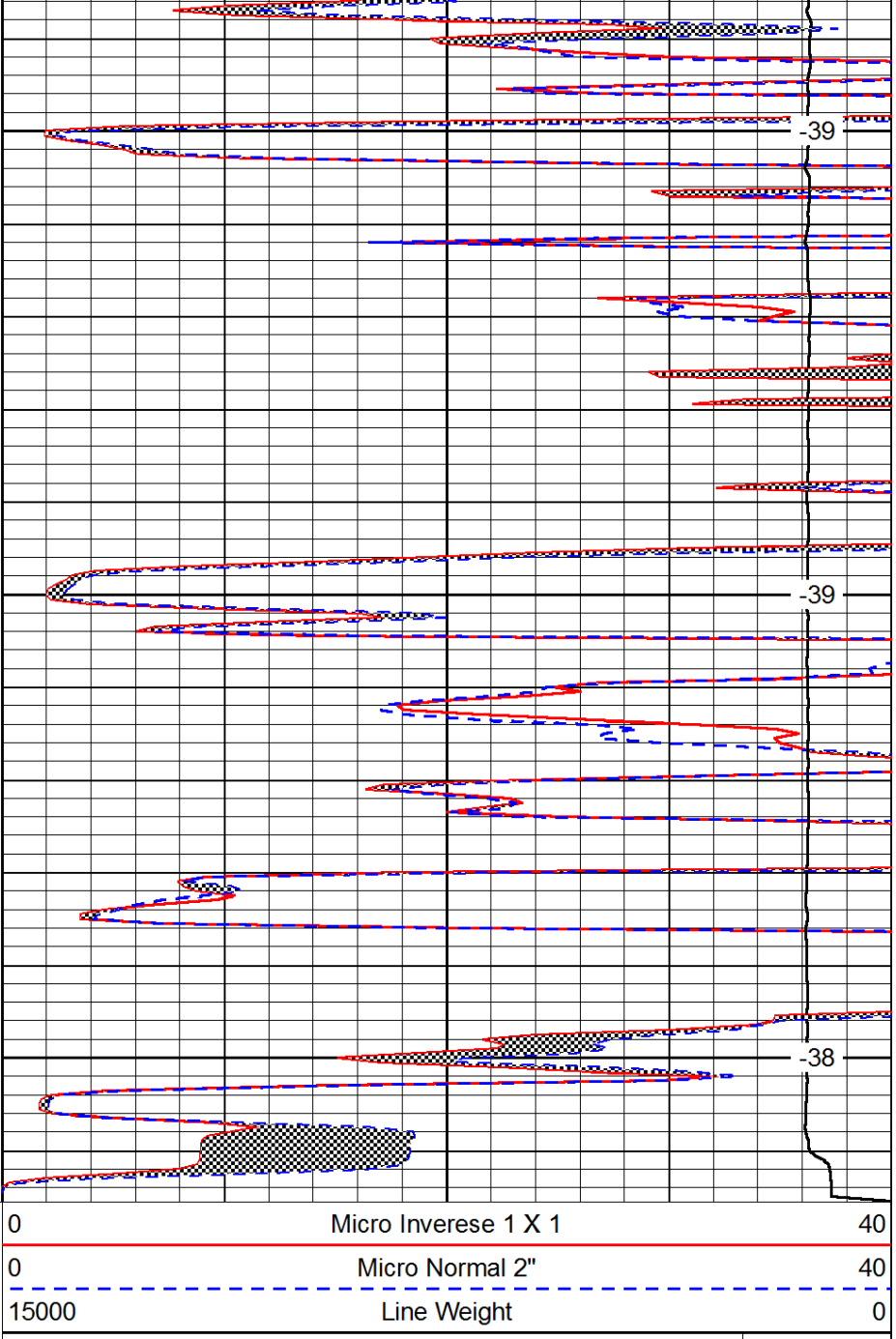
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3250

3300

3350



-39

-39

-38

LSPD