



Microresistivity Log

Pioneer Energy Services

API No.

15-135-25557-00-00

Company American Warrior, Inc.

Well Rothe #2-25

Field Unknown

County Ness State

Kansas

Location 2197' FNL & 2282' FEL

Other Services
CNL/CDL
DIL

Sec: 25 Twp: 19 S Rge: 25 W

Permanent Datum Ground Level Elevation 2358
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation

K.B. 2369
D.F. 2358
G.L. 2358

Date 4/2/2013

Run Number Two

Depth Driller 4550

Depth Logger 4552

Bottom Logged Interval 4551

Top Log Interval 3700

Casing Driller 8.625 @ 224

Casing Logger 224

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 3800

Density / Viscosity 9.3 52

pH / Fluid Loss 10.5 6.4

Source of Sample Flowline

Rm @ Meas. Temp 3.5 @ 50

Rmf @ Meas. Temp 2.62 @ 50

Rmc @ Meas. Temp 4.72 @ 50

Source of Rmf / Rmc Charts

Rm @ BHT 1.42 @ 124

Operating Rig Time 4 Hours

Max Rec. Temp. F 124

Equipment Number 91

Location Hays

Recorded By Y. Ruiz

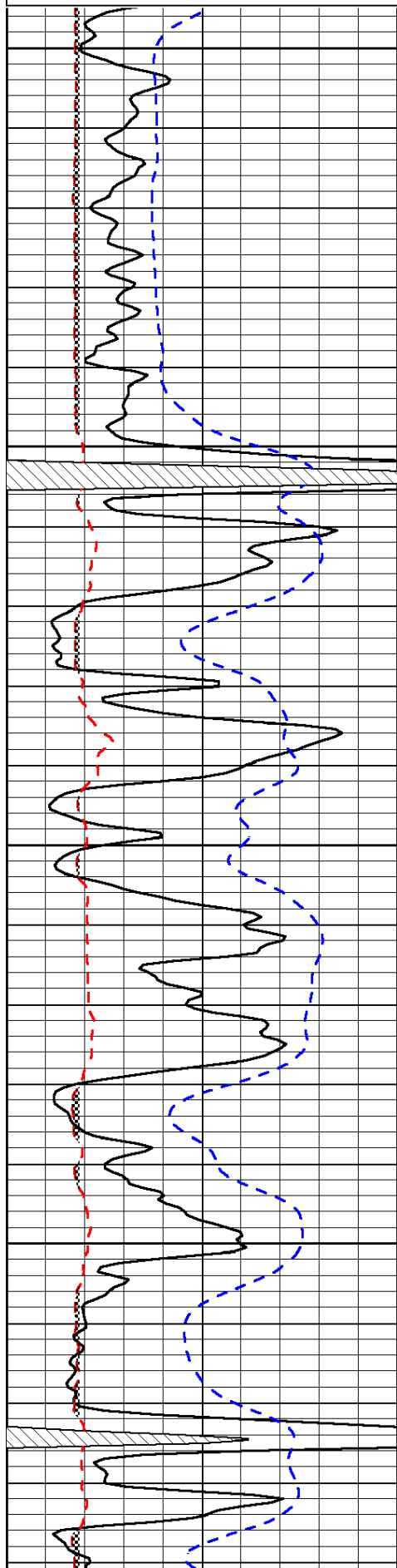
Witnessed By Kevin Timson

Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Ness City,
7 South to 60 Rd, 5 West to L Rd, 2 North, 1/4 West,
North into

Database File: c:\warrior\data\amwar_rothe #2-25\amwar_040213hd.db
Dataset Pathname: dil\awstk
Presentation Format: micro
Dataset Creation: Tue Apr 02 08:38:47 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



3700

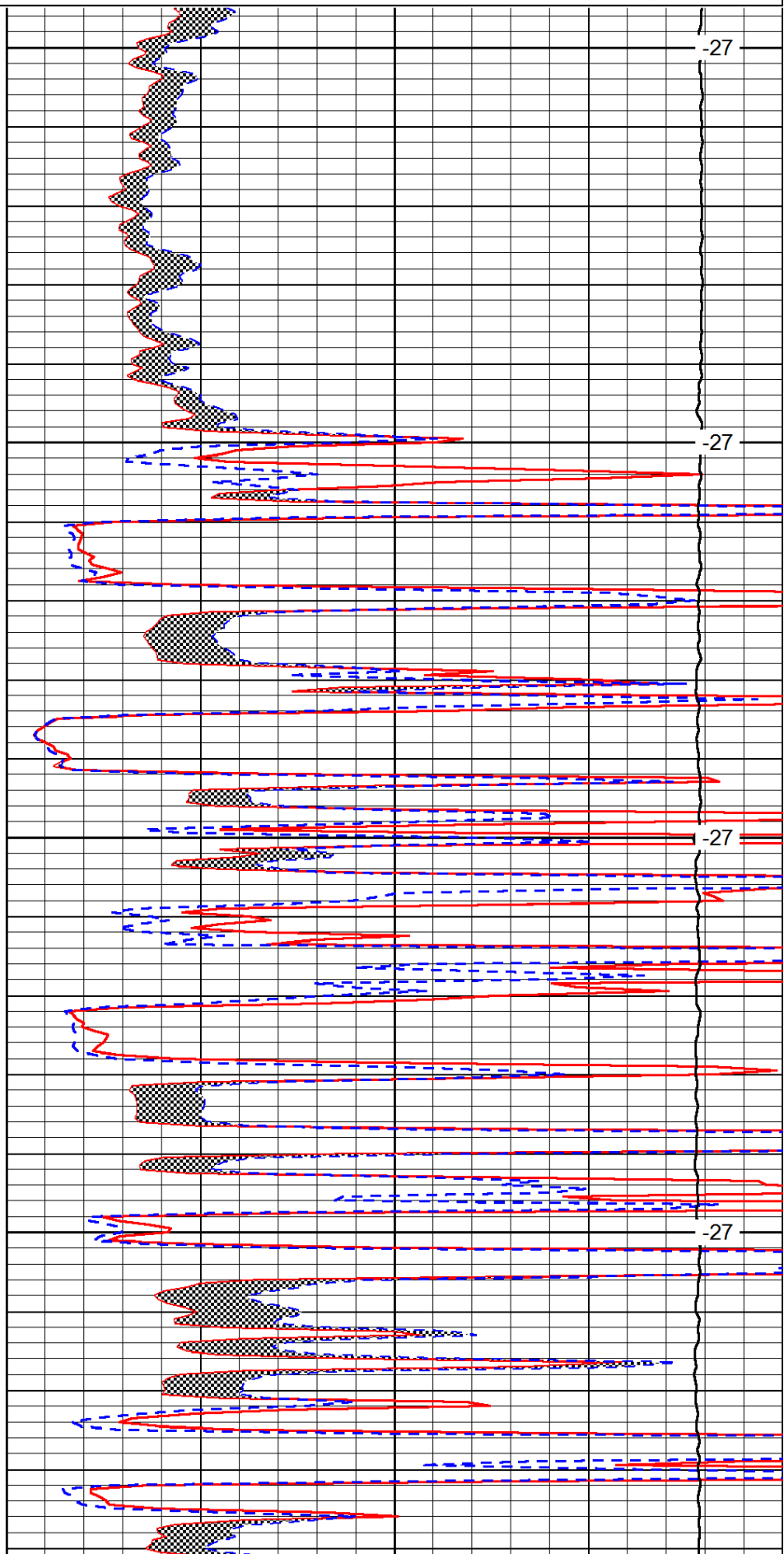
3750

3800

3850

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

LSPD

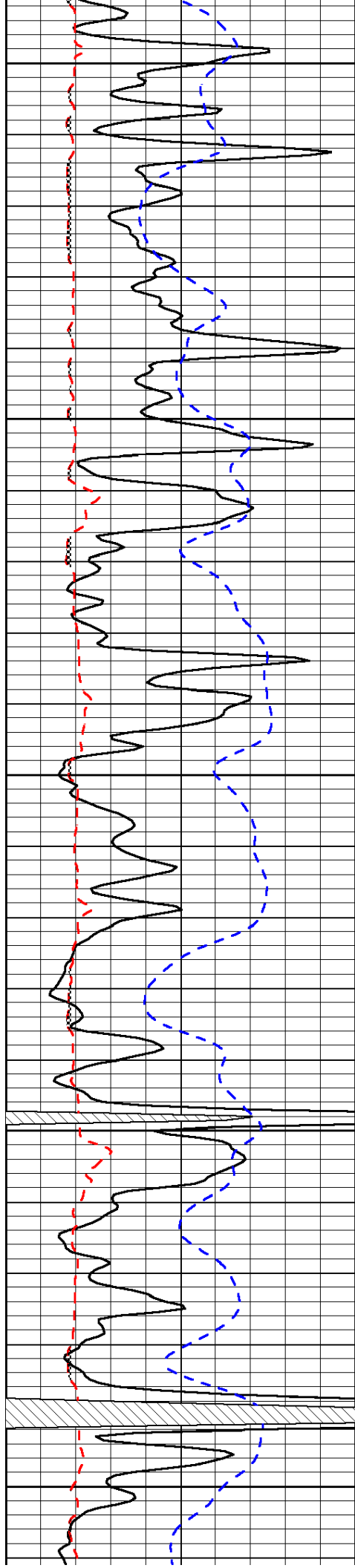


-27

-27

-27

-27



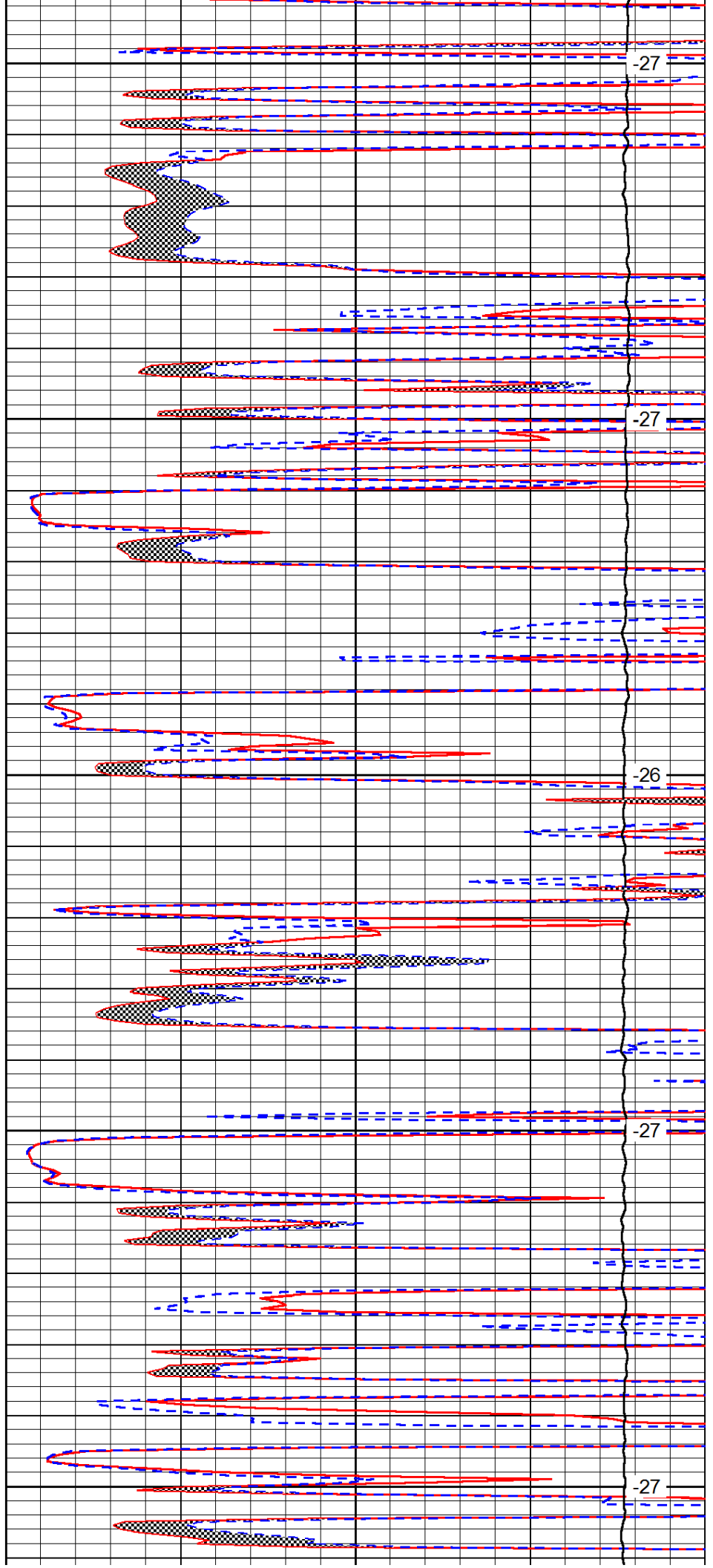
3900

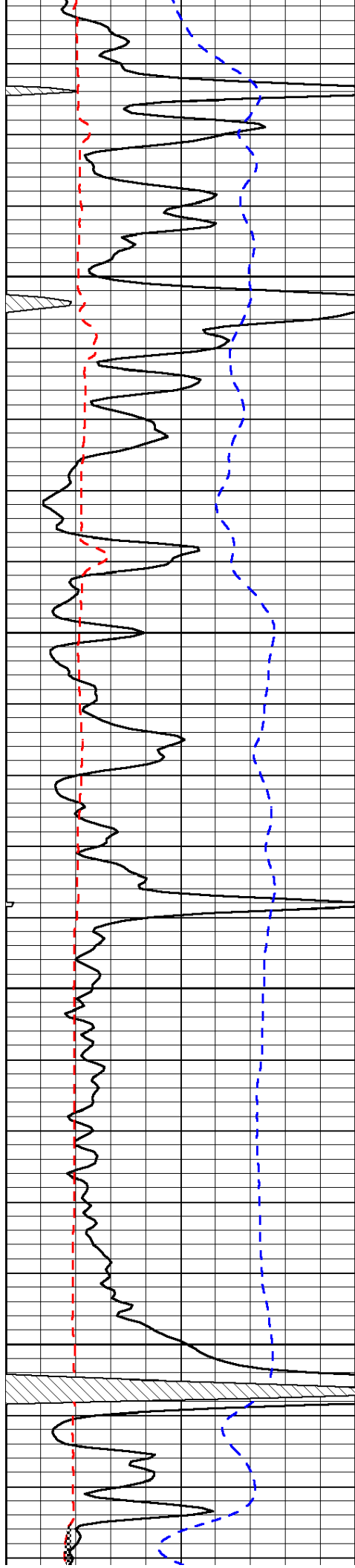
3950

4000

4050

4100



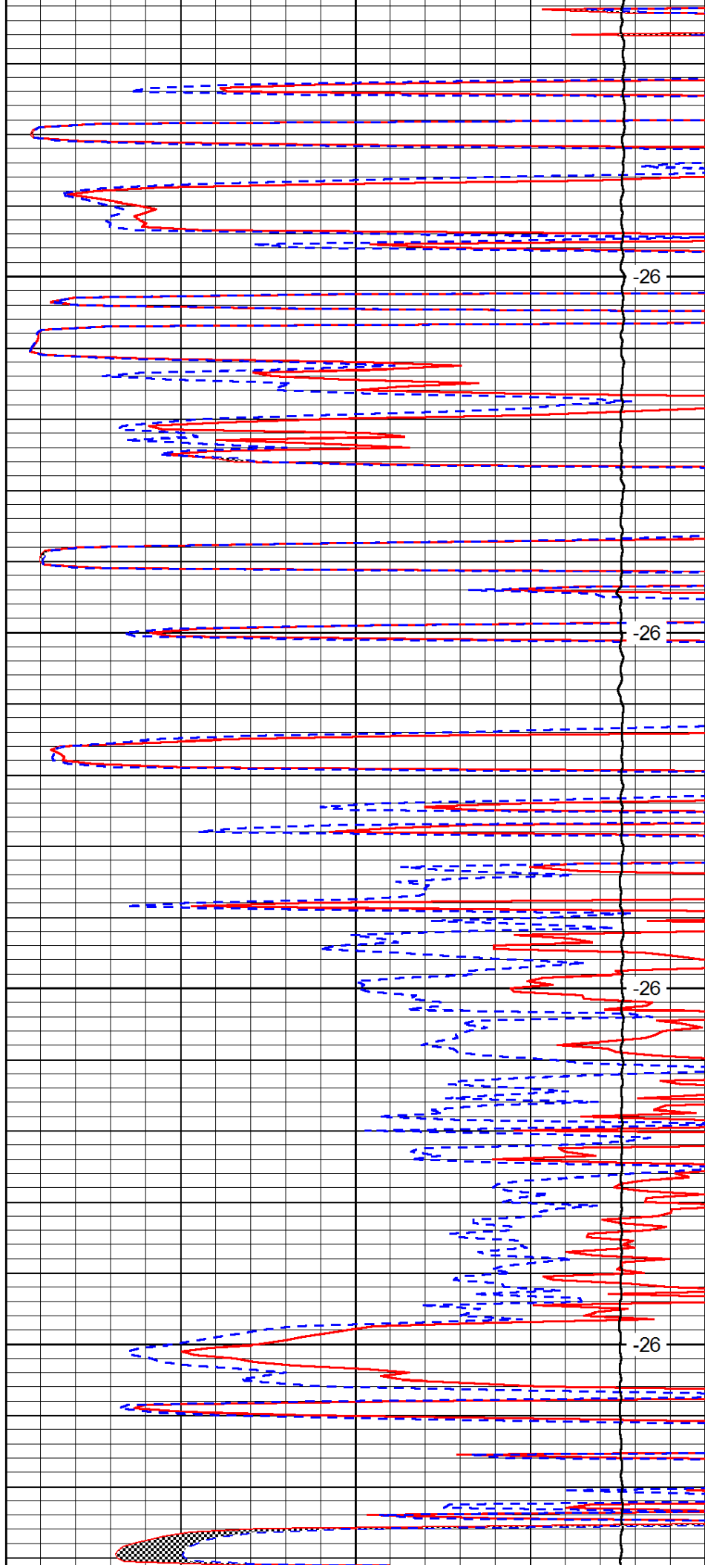


4150

4200

4250

4300

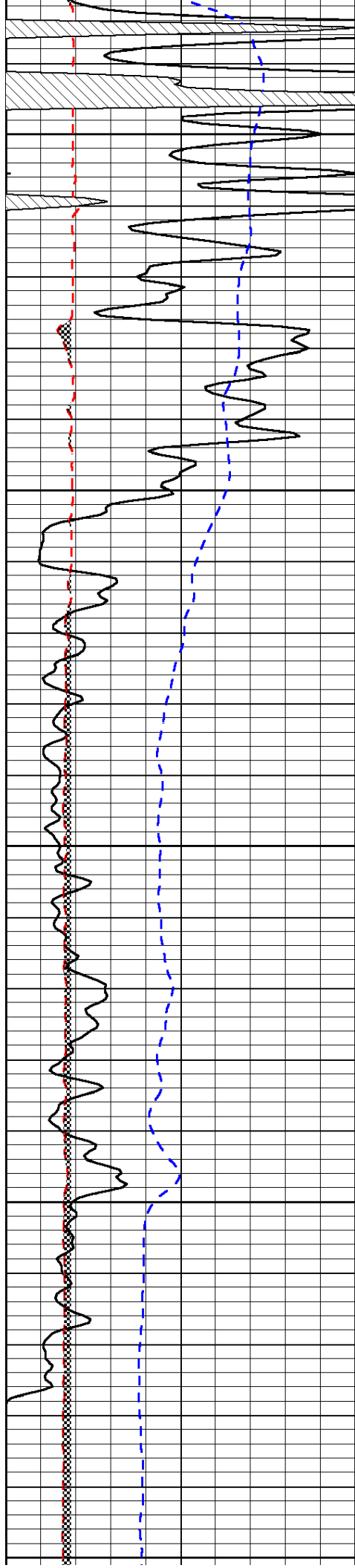


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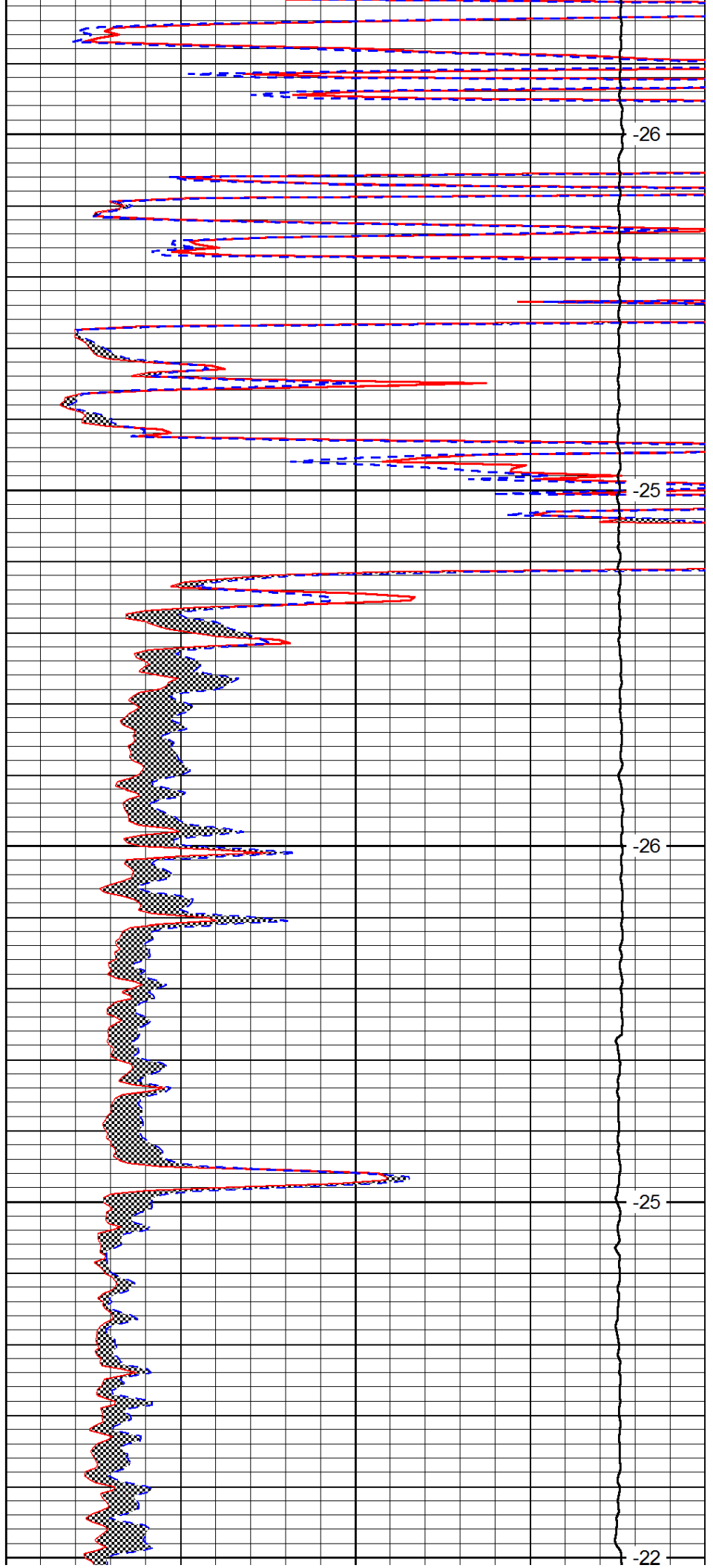
4350

4400

4450

4500

4550



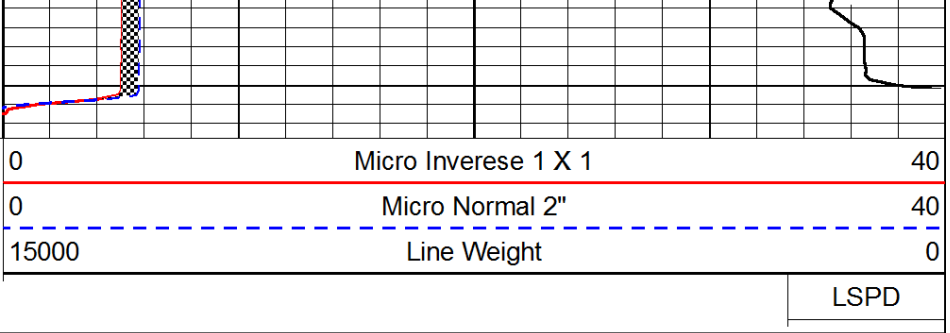
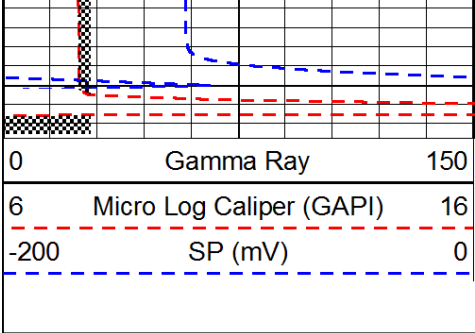
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LSPD