



Microresistivity Log

Pioneer Energy Services

API No.

15-101-22399-00-00

Company Larson Engineering, Inc.

Well SS #2-10

Field Unnamed

County Lane State

Kansas

Location 1658' FSL & 2284' FEL

Sec: 10 Twp: 19S Rge: 29W

Other Services
CNL/CDL
DIL

Permanent Datum Ground Level Elevation 2819

Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Date 9/12/2012

Run Number Two

Depth Driller 4646

Depth Logger 4647

Bottom Logged Interval 4646

Top Log Interval 3600

Casing Driller 8.625 @ 261

Casing Logger 259

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 3600

Density / Viscosity 9.2 58

pH / Fluid Loss 10.5 7.2

Source of Sample Flowline

Rm @ Meas. Temp 0.85 @ 60

Rmf @ Meas. Temp 0.64 @ 60

Rmc @ Meas. Temp 1.15 @ 60

Source of Rmf / Rmc Charts

Rm @ BHT 0.41 @ 124

Operating Rig Time 4 Hours

Max Rec. Temp. F 124

Equipment Number 91

Location Hays

Recorded By D. Schmidt

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.

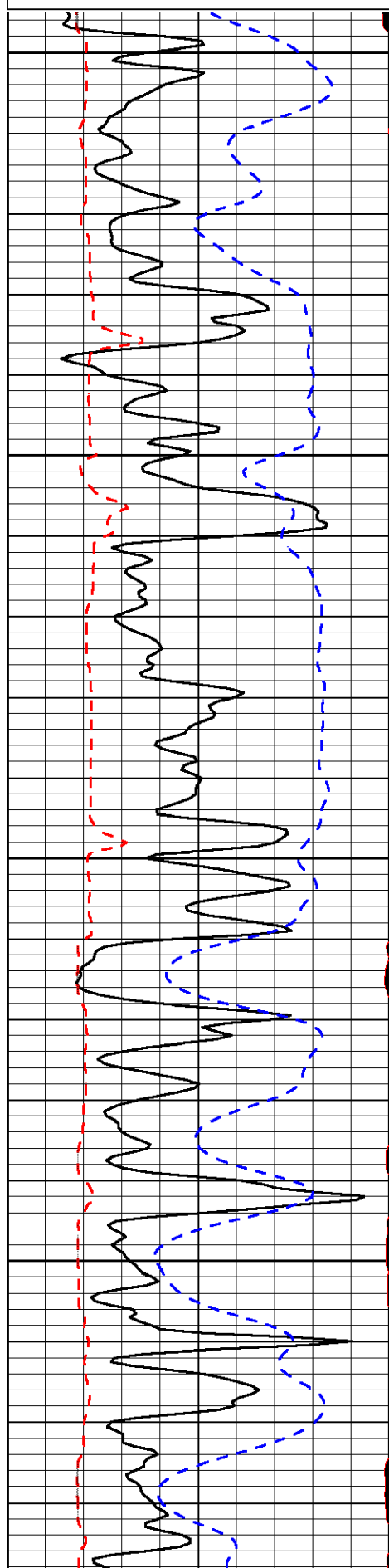
Comments

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

Dighton,
2 South to Rd 130, 2 West to Jagger Rd, 2 1/2 South,
West into

Database File: larson_091212hd.db
Dataset Pathname: dil/larstack
Presentation Format: micro
Dataset Creation: Wed Sep 12 22:11:32 2012
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP	0



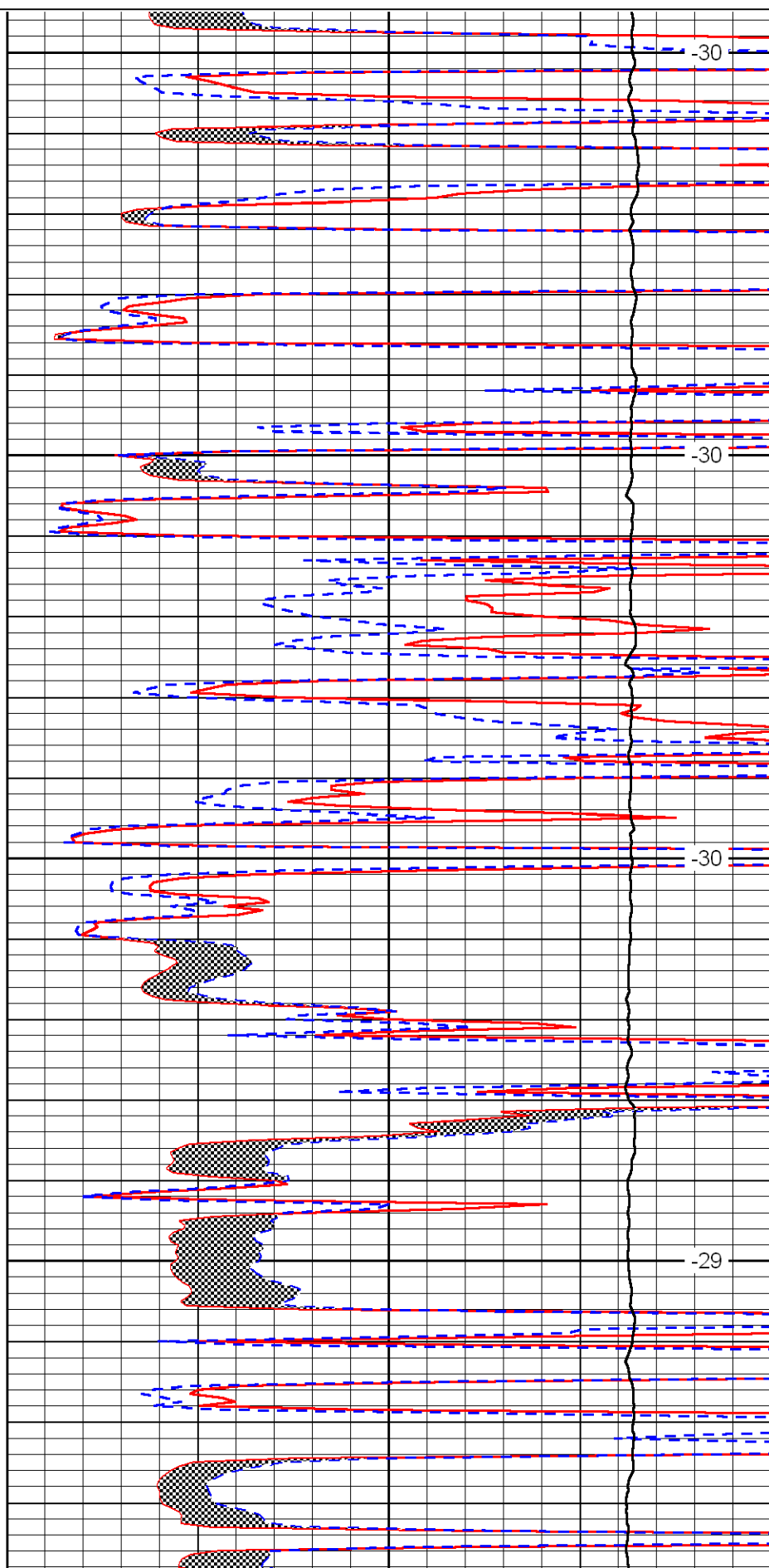
3600

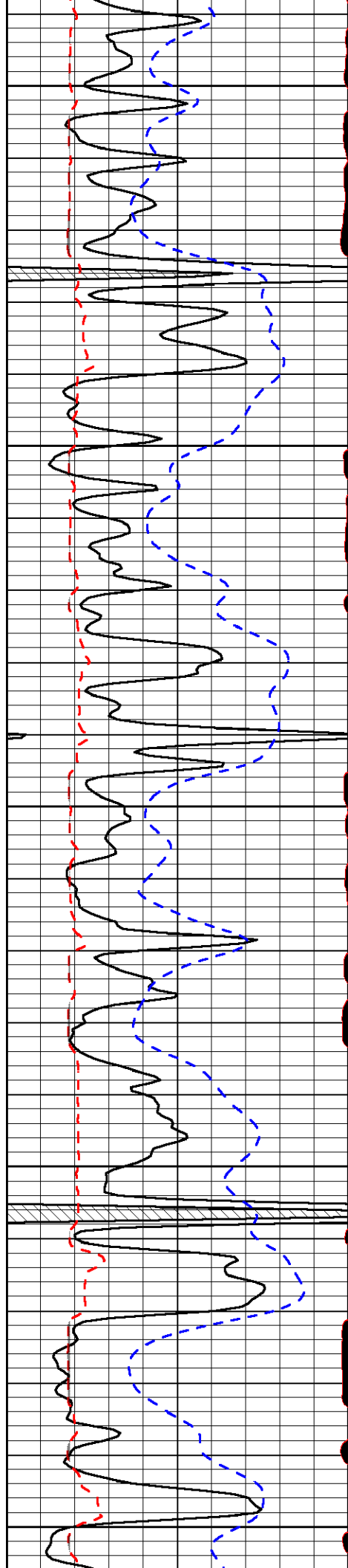
3650

3700

3750

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0
		LSPD





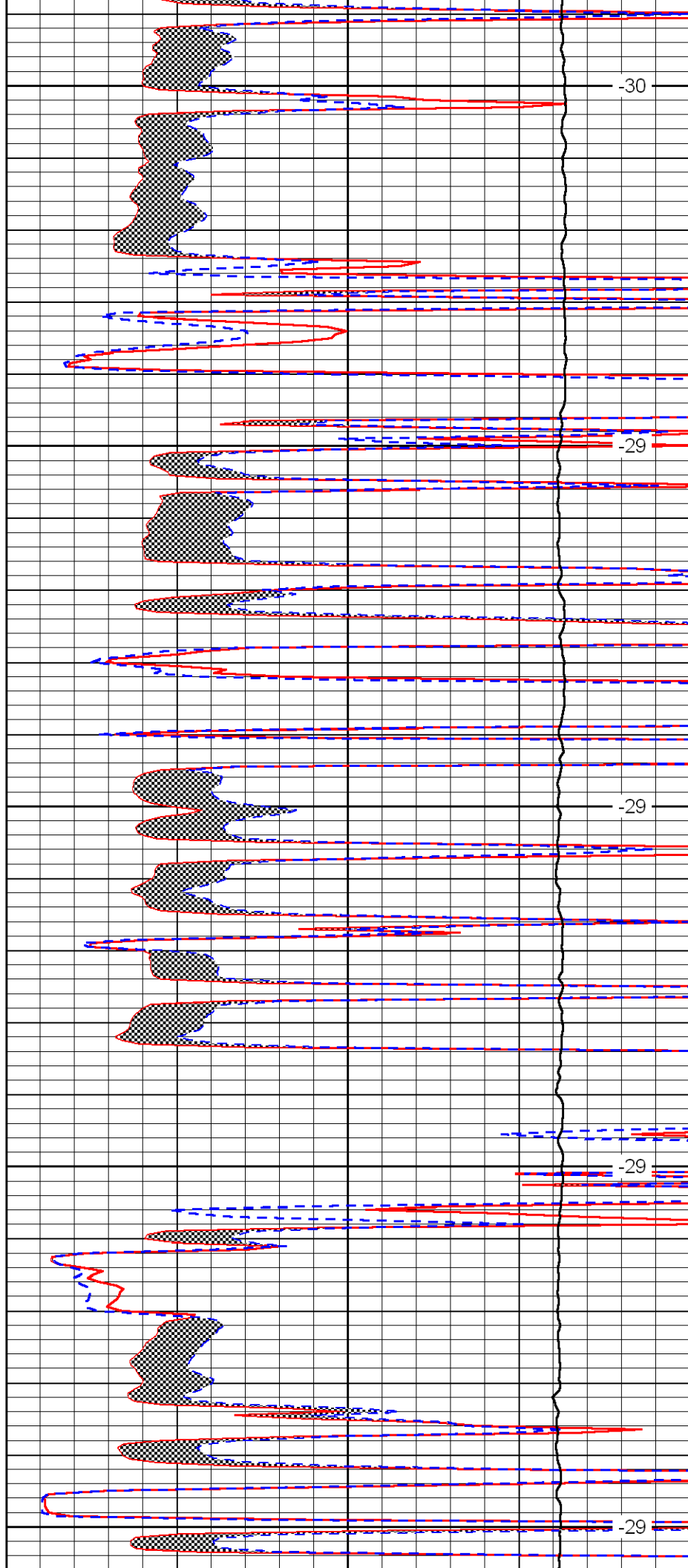
3800

3850

3900

3950

4000



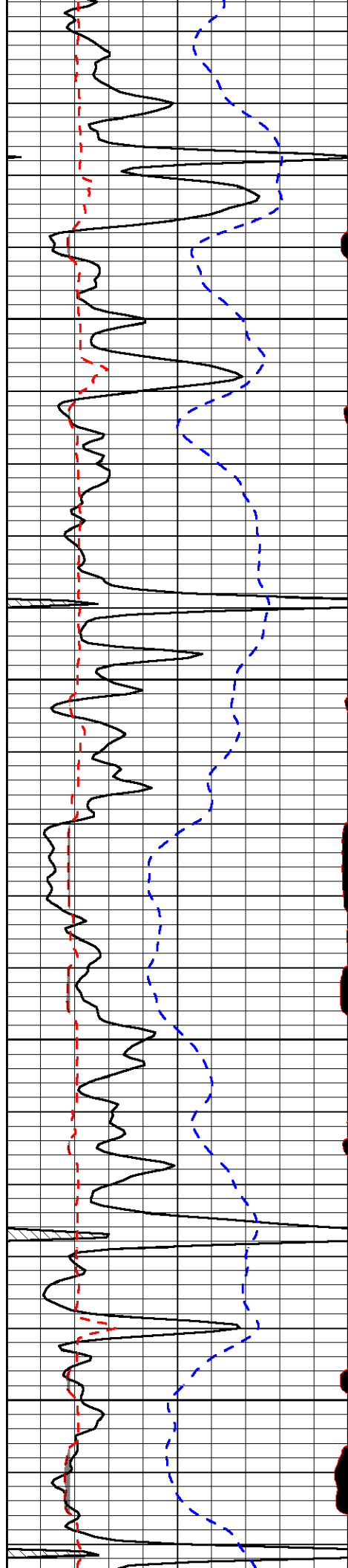
-30

-29

-29

-29

-29

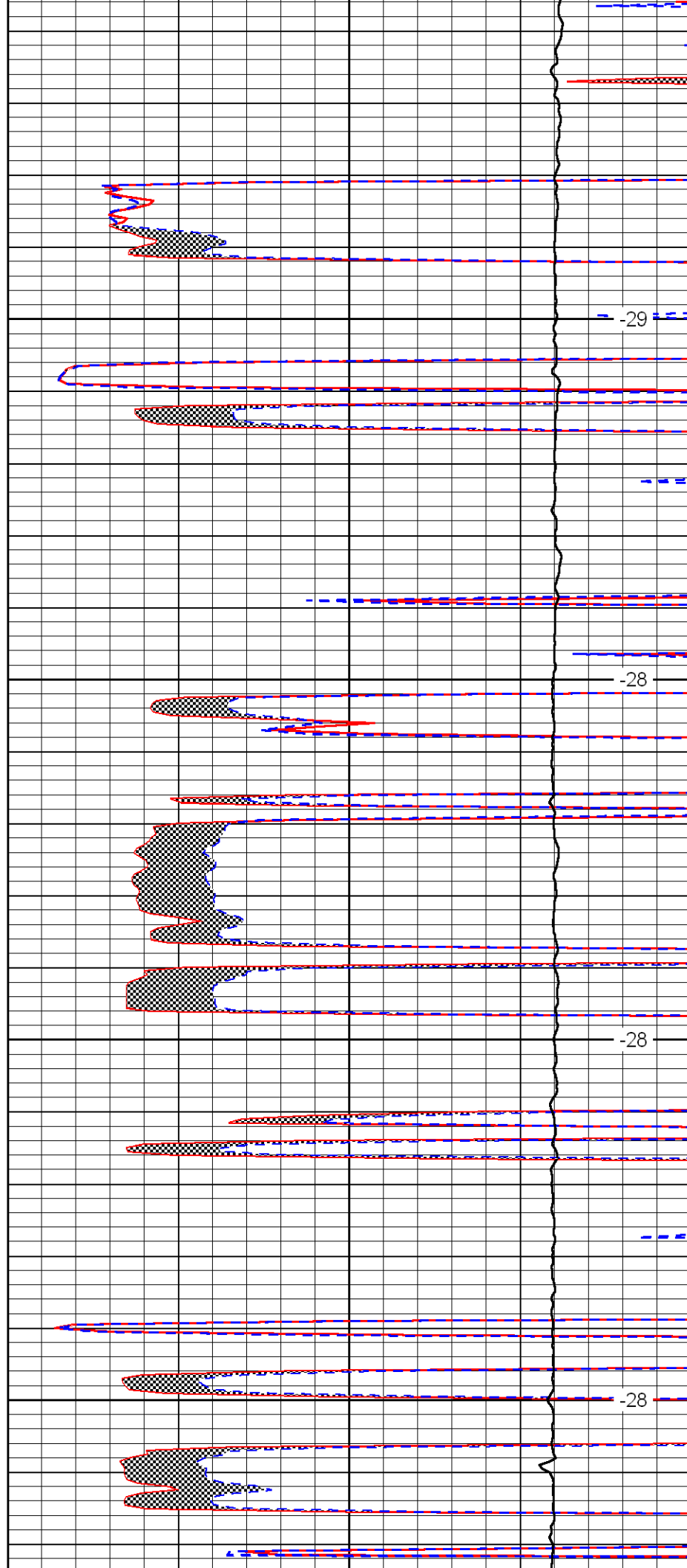


4050

4100

4150

4200

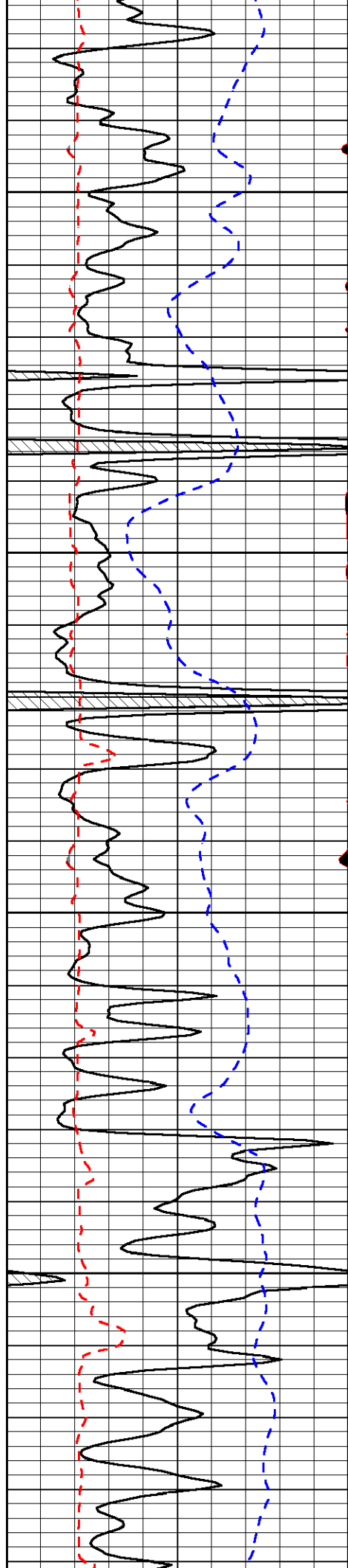


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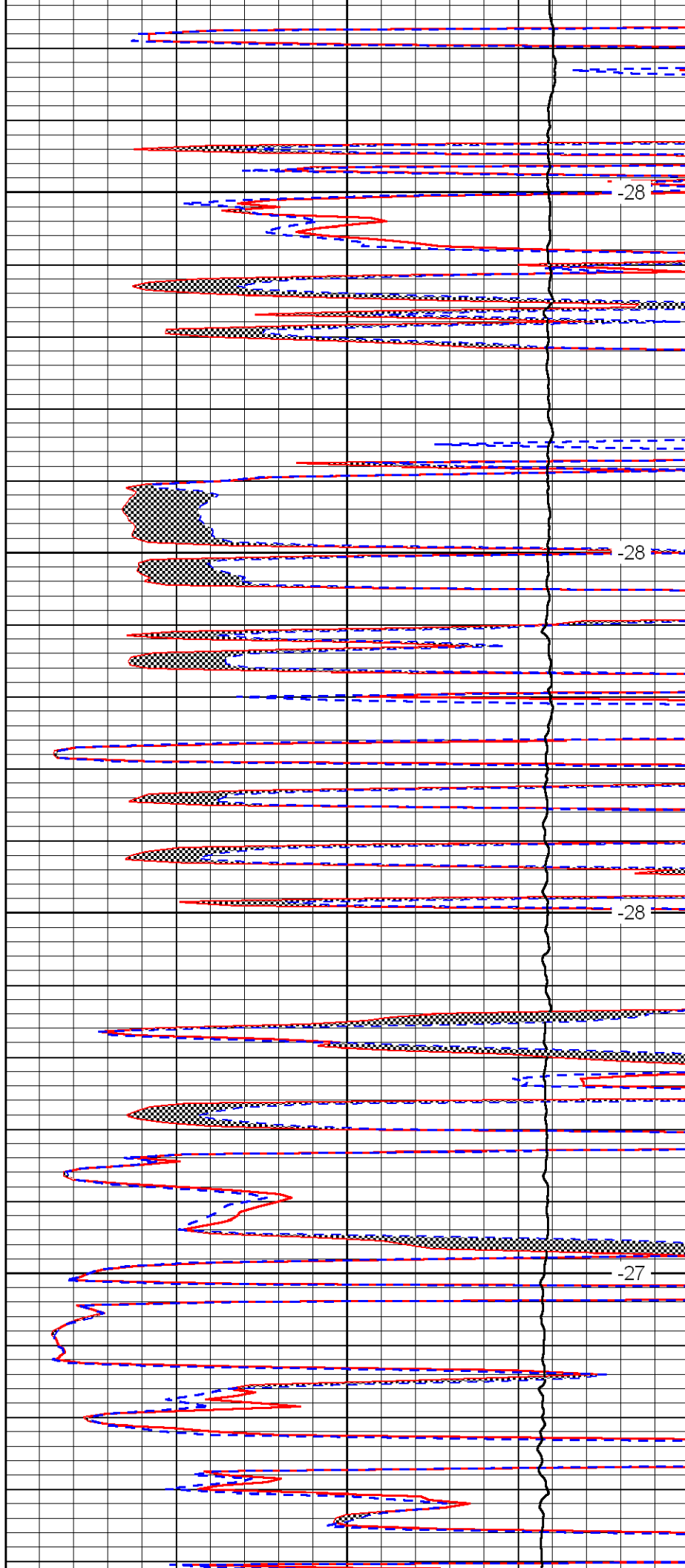


4250

4300

4350

4400

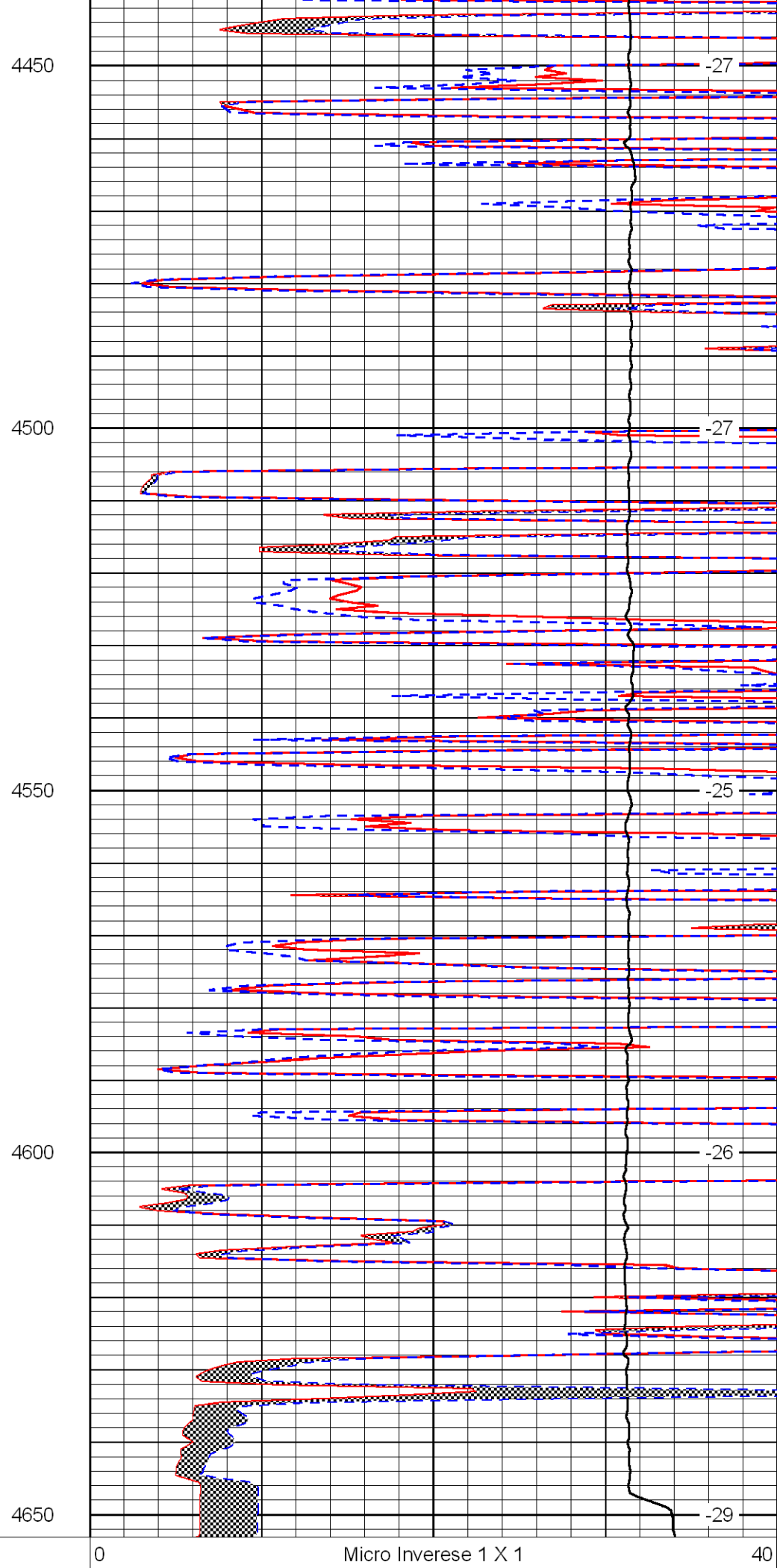
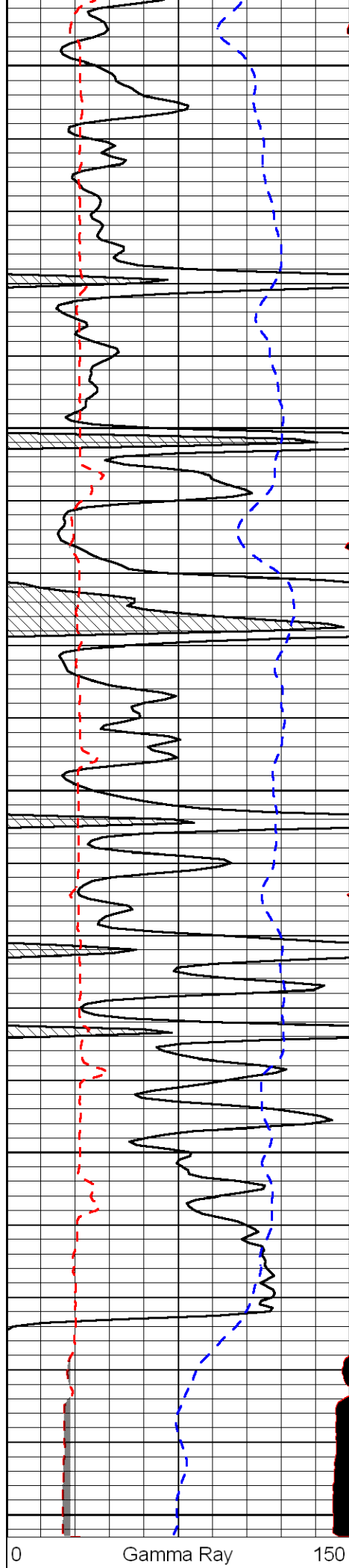


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