



Microresistivity Log

Pioneer Energy Services

API No.

15-009-28,899-00-00

Company H&D Exploration, LLC

Well Snider No. 1

Field Beaver

County Barton State

Kansas

Location

SE-SW-NE-NE
1037' FNL & 703' FEL

Other Services
CNL/CDL
DIL/BHCS

Sec: 9

Twp: 16S

Rge: 12W

Elevation

Permanent Datum Ground Level Elevation 1861
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 10/25/13

Run Number Two

Depth Driller 3303

Depth Logger 3303

Bottom Logged Interval 3302

Top Log Interval 2650

Casing Driller 8.625 @ 775

Casing Logger 774

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 7.200

Density / Viscosity 9.3 48

pH / Fluid Loss 10.5 8.8

Source of Sample Flowline

Rm @ Meas. Temp .42 @ 64

Rmf @ Meas. Temp .32 @ 64

Rmc @ Meas. Temp .57 @ 64

Source of Rmf / Rmc Charts

Rm @ BHT .25 @ 109

Operating Rig Time 5 Hours

Max Rec. Temp. F 109

Equipment Number 108

Location Hays

Recorded By J. Henrickson

Witnessed By Jim Musgrove

<<< Fold Here >>>

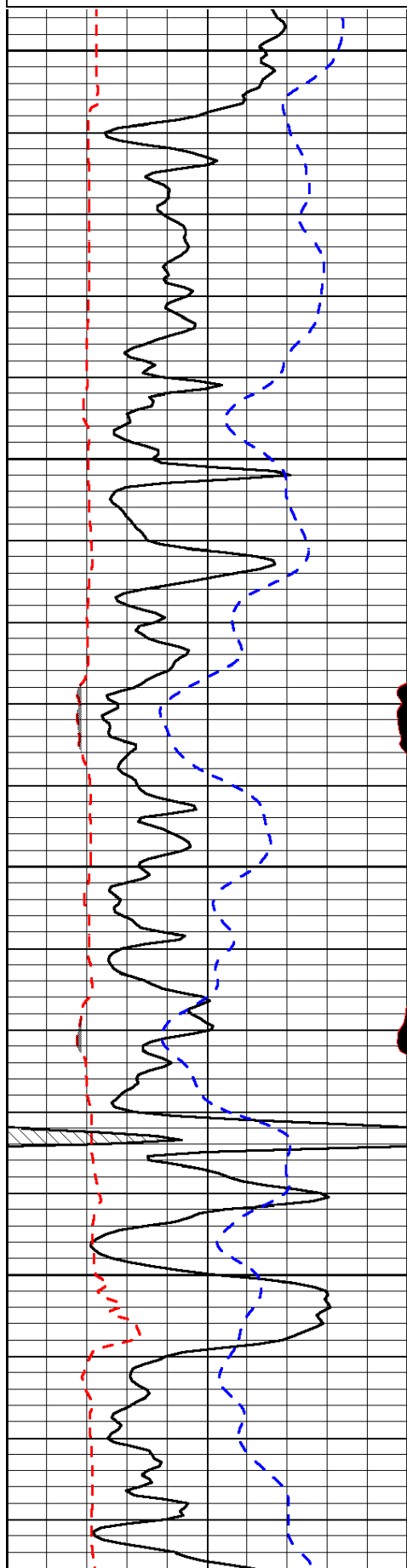
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Comments

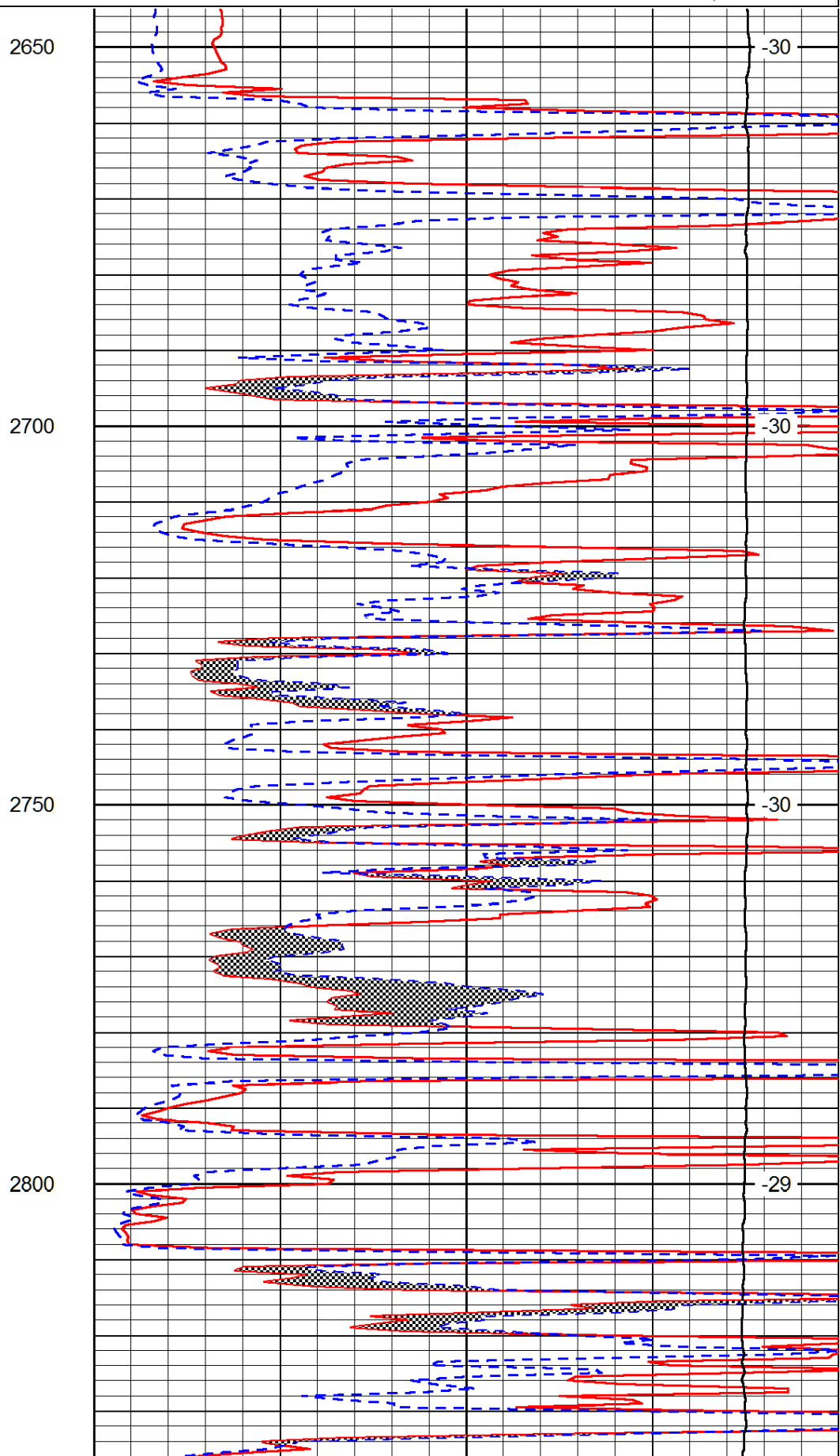
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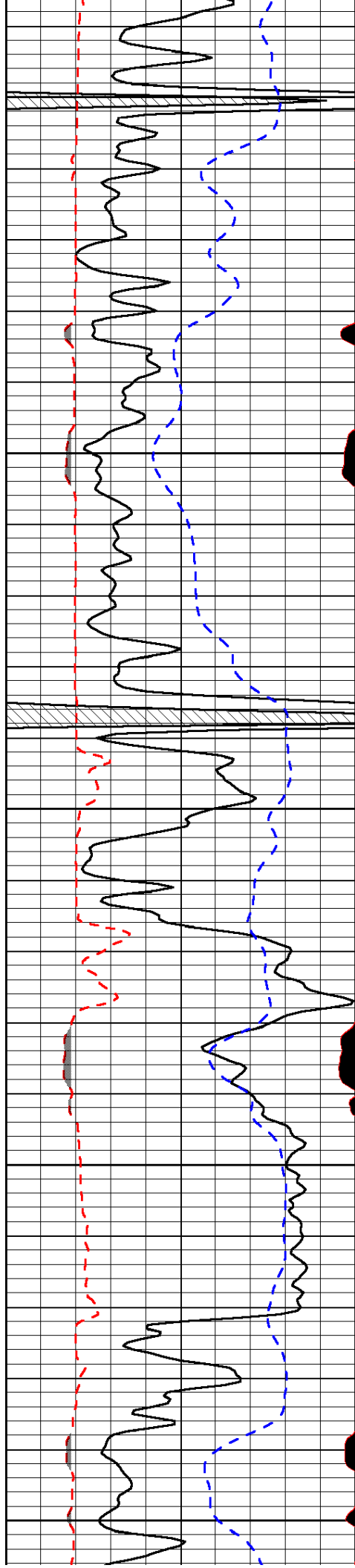
Beaver Kansas
1 East, 2 1/2 North, West Into

Charted by: Depth in Feet scaled 1:2.10		
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0



0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0
		LSPD (ft/min)





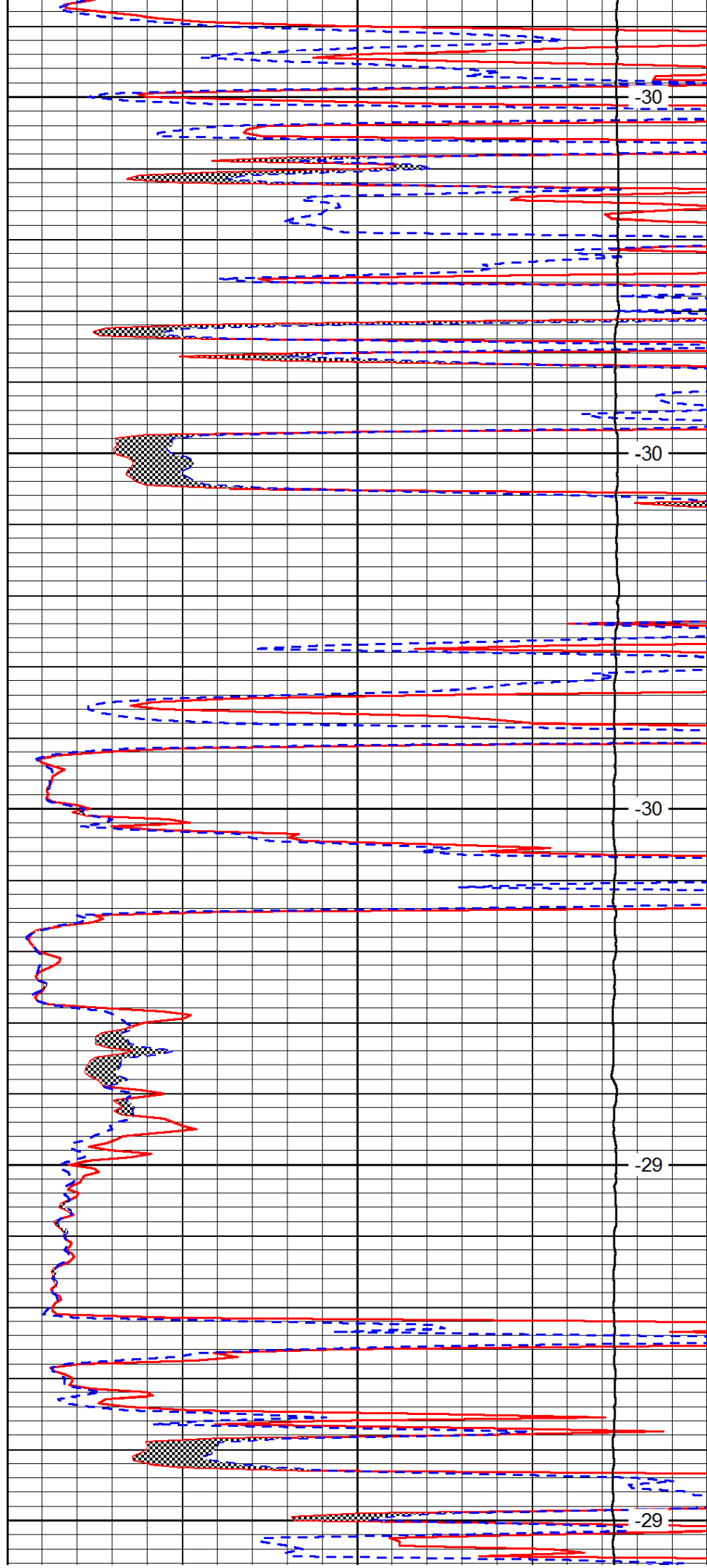
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2900

2950

3000

3050



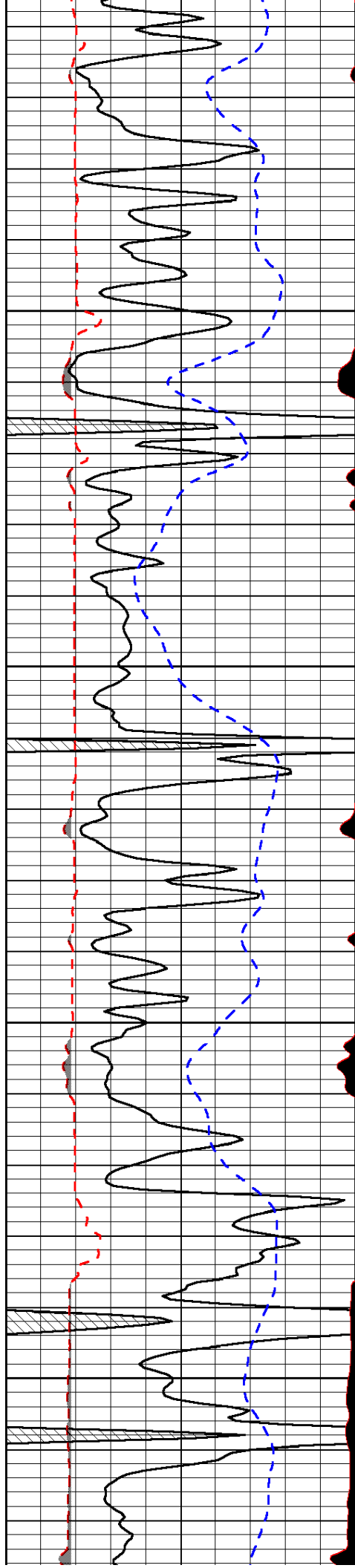
-30

-30

-30

-29

-29

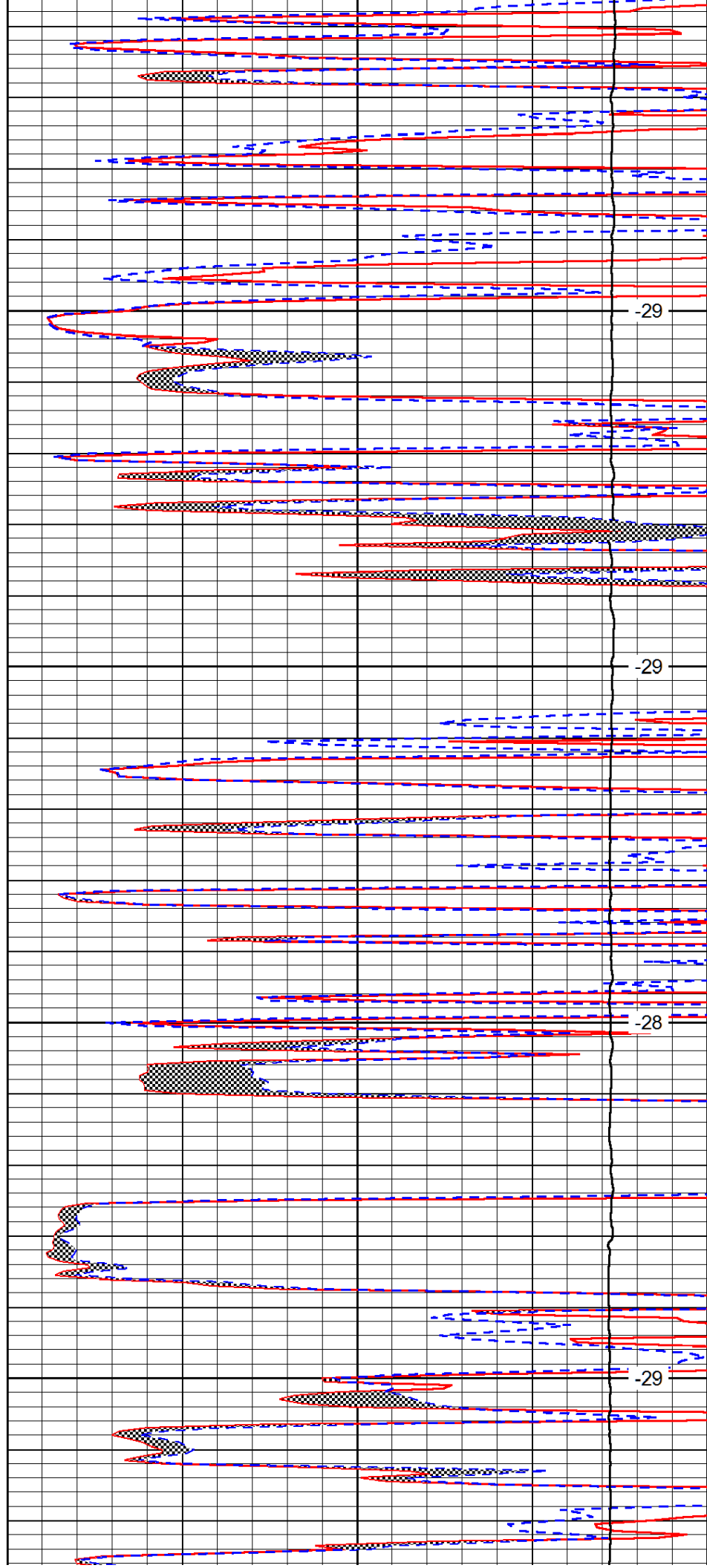


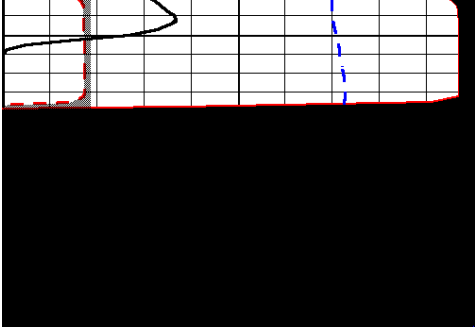
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3150

3200

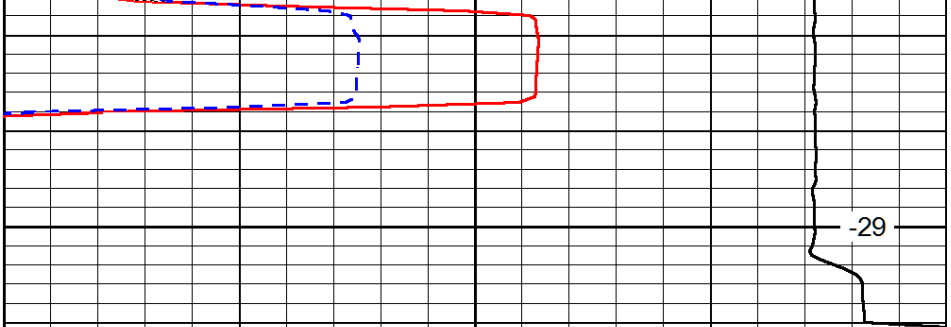
3250





3300

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