



Pioneer Energy Services

Microresistivity Log

15-101-22,531-00-00

API No.

Company Larson Engineering, Inc.

Well E.M. Stanley Unit #1-20

Field Wildcat

County Lane State

Kansas

Location 134' FSL & 347' FEL

Sec: 20 Twp: 18s Rge: 27w

Permanent Datum Ground Level Elevation 2687

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

Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
DIL
Elevation
K.B. 2694
D.F.
G.L. 2687

Date	8/4/2014	
Run Number	Two	
Depth Driller	4644	
Depth Logger	4640	
Bottom Logged Interval	4639	
Top Log Interval	3600	
Casing Driller	8.625 @ 262	
Casing Logger	260	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	3500	
Density / Viscosity	9.2 58	
pH / Fluid Loss	10.0 9.6	
Source of Sample	Flowline	
Rm @ Meas. Temp	.68 @ 78	
Rmf @ Meas. Temp	.51 @ 78	
Rmc @ Meas. Temp	.92 @ 78	
Source of Rmf / Rmc	Charts	
Rm @ BHT	.43 @ 122	
Operating Rig Time	4.5 Hours	
Max Rec. Temp. F	122	
Equipment Number	108	
Location	Hays	
Recorded By	J Long	D Fischer
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

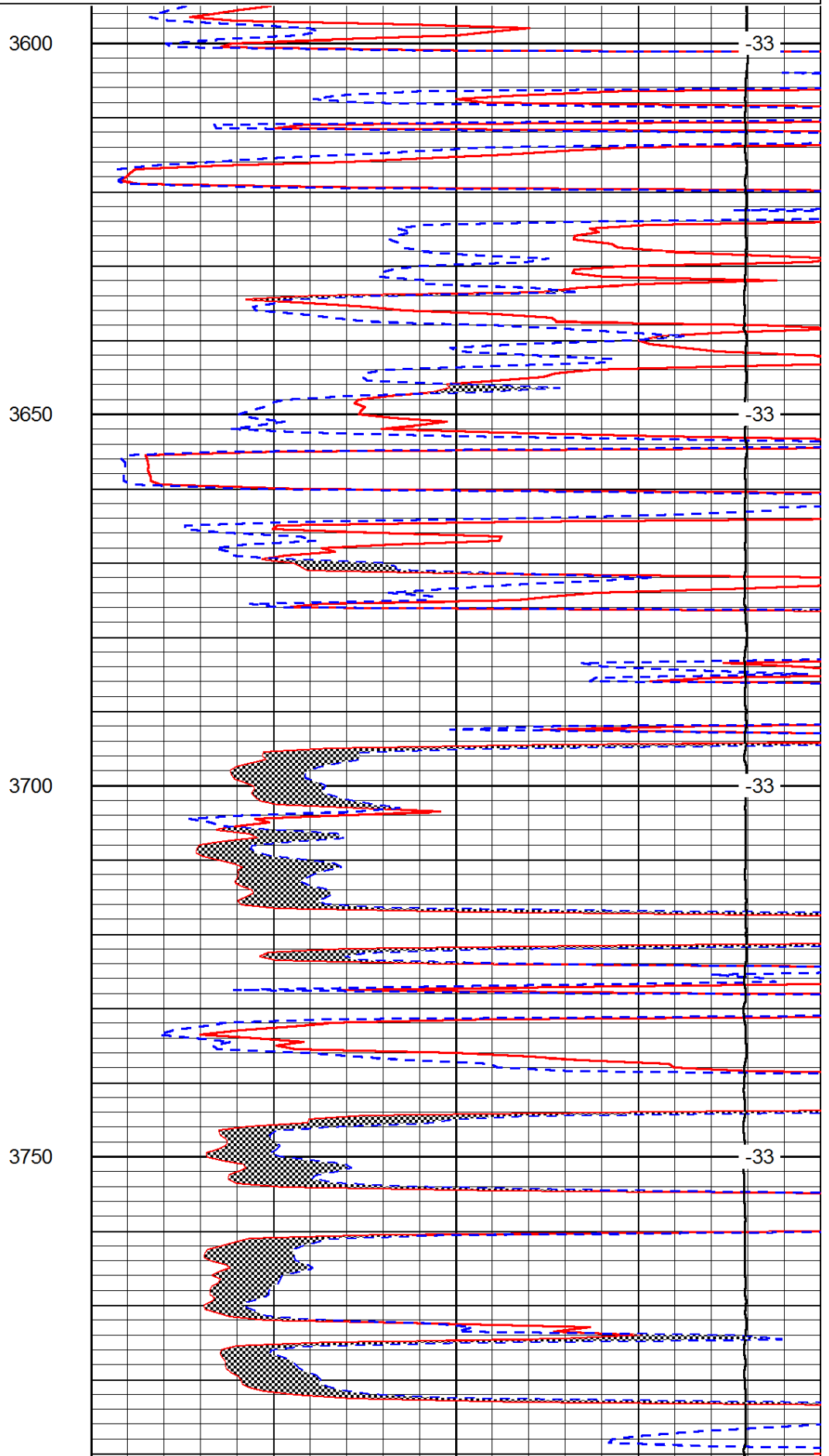
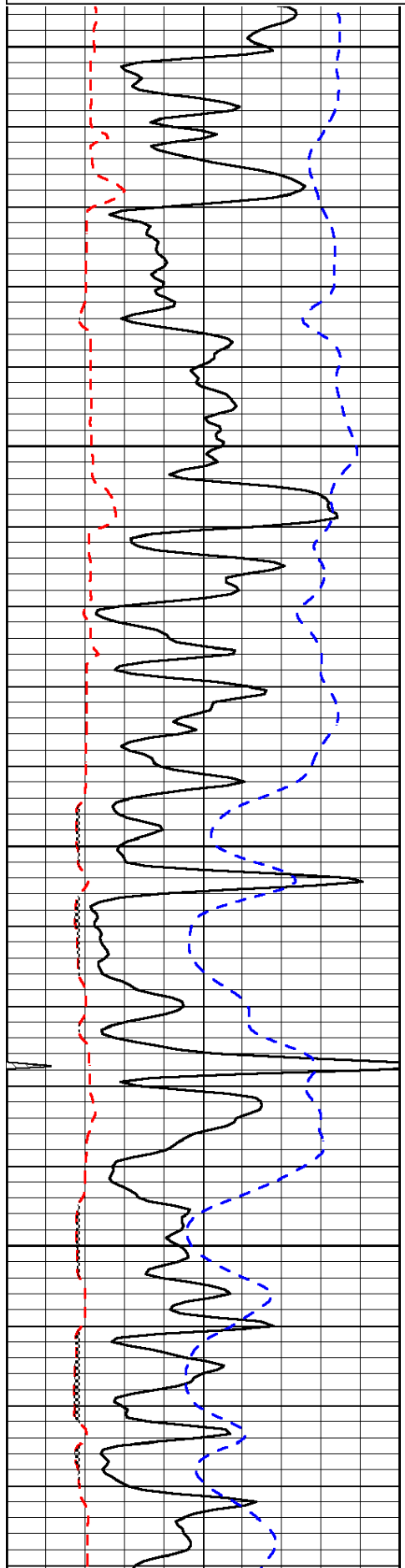
Thank you for using Pioneer Energy Services
www.pioneerenergy.com
 785 625 3858
 Dighton Ks., 8 East to Scout Rd., 1 South, West Into.

Database File: c:\warrior\data\larson_e.m. stanley unit #1-20\larson_e_m_stanley_1-20hd.db
 Dataset Pathname: DIL\larsstck
 Presentation Format: micro
 Dataset Creation: Mon Aug 04 19:04:04 2014
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

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

LSPD



3600

-33

3650

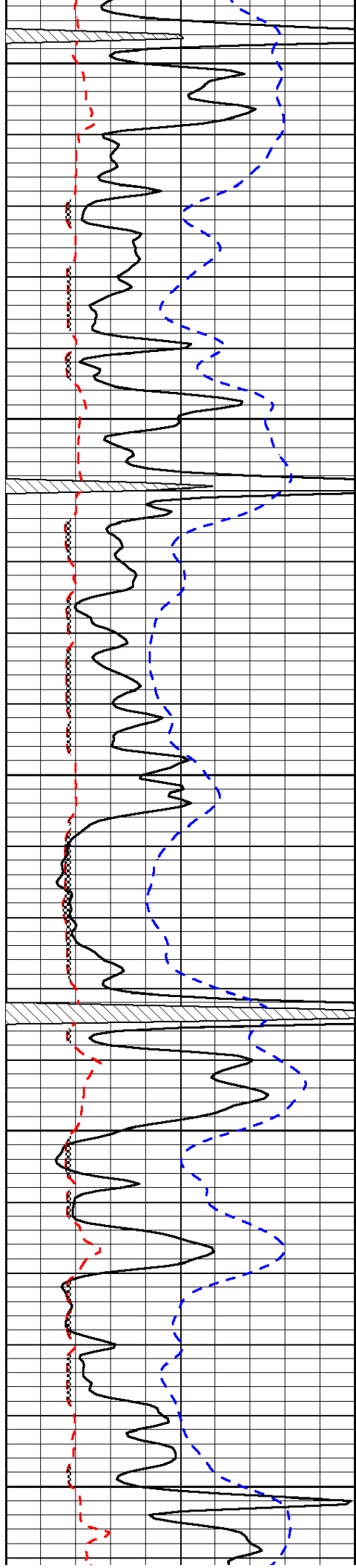
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3700

-33

3750

-33



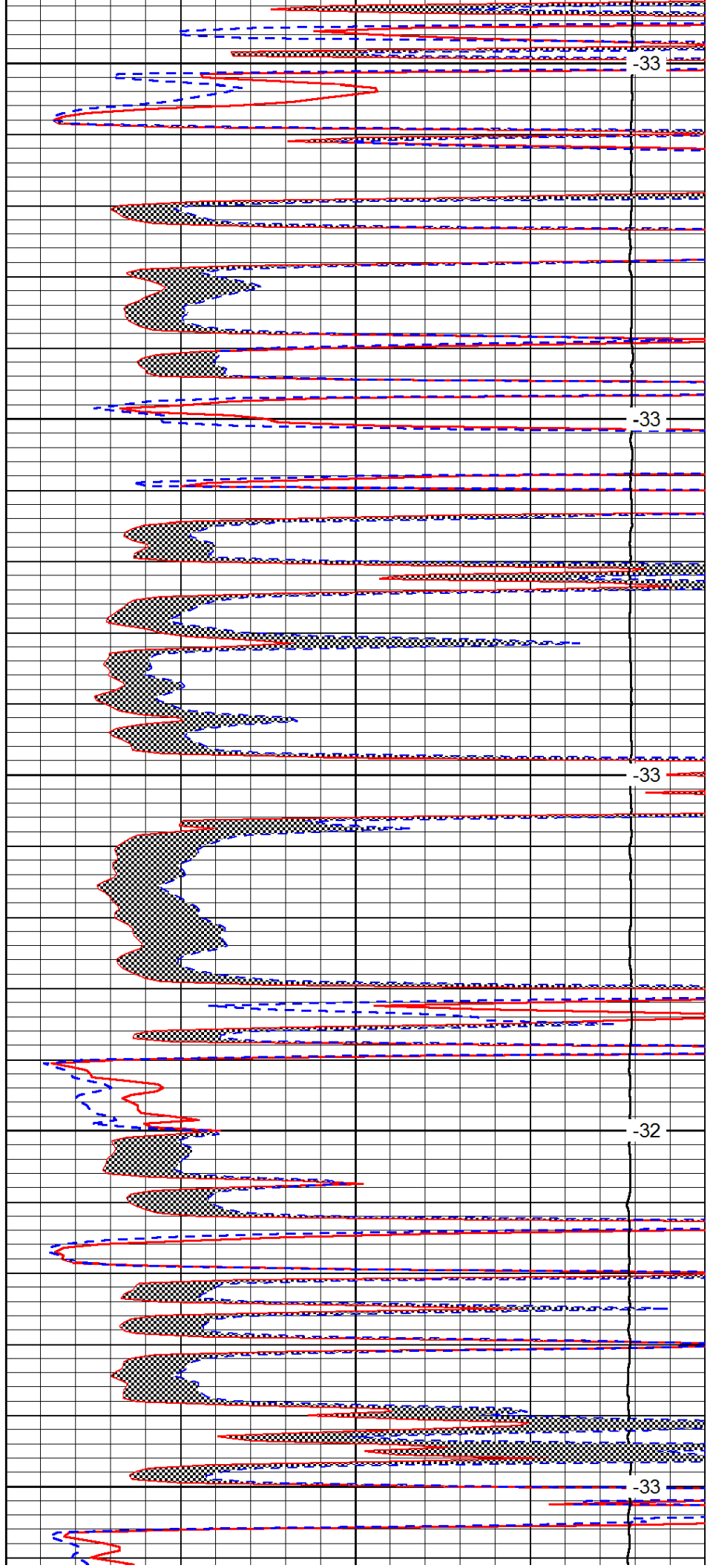
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3850

3900

3950

4000



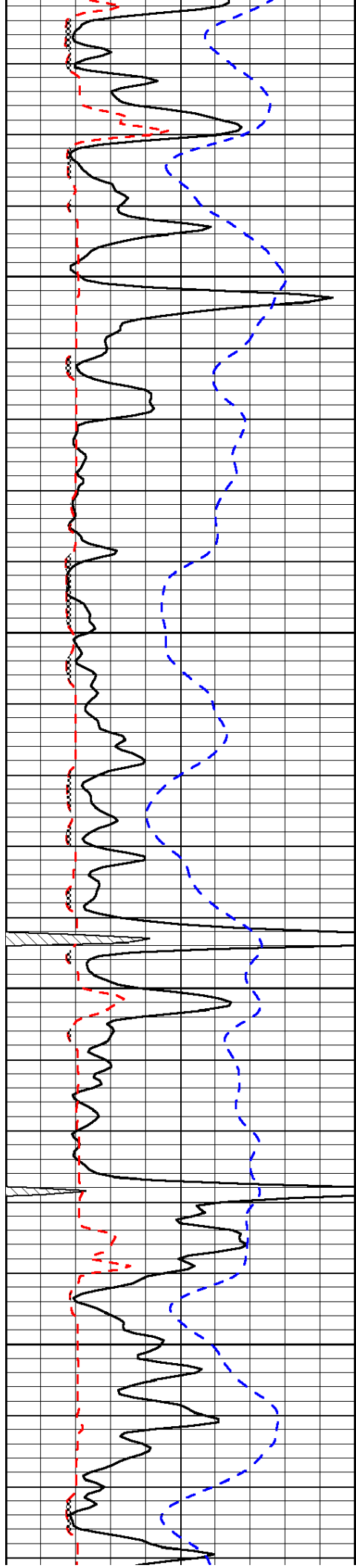
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-33

-33

-32

-33

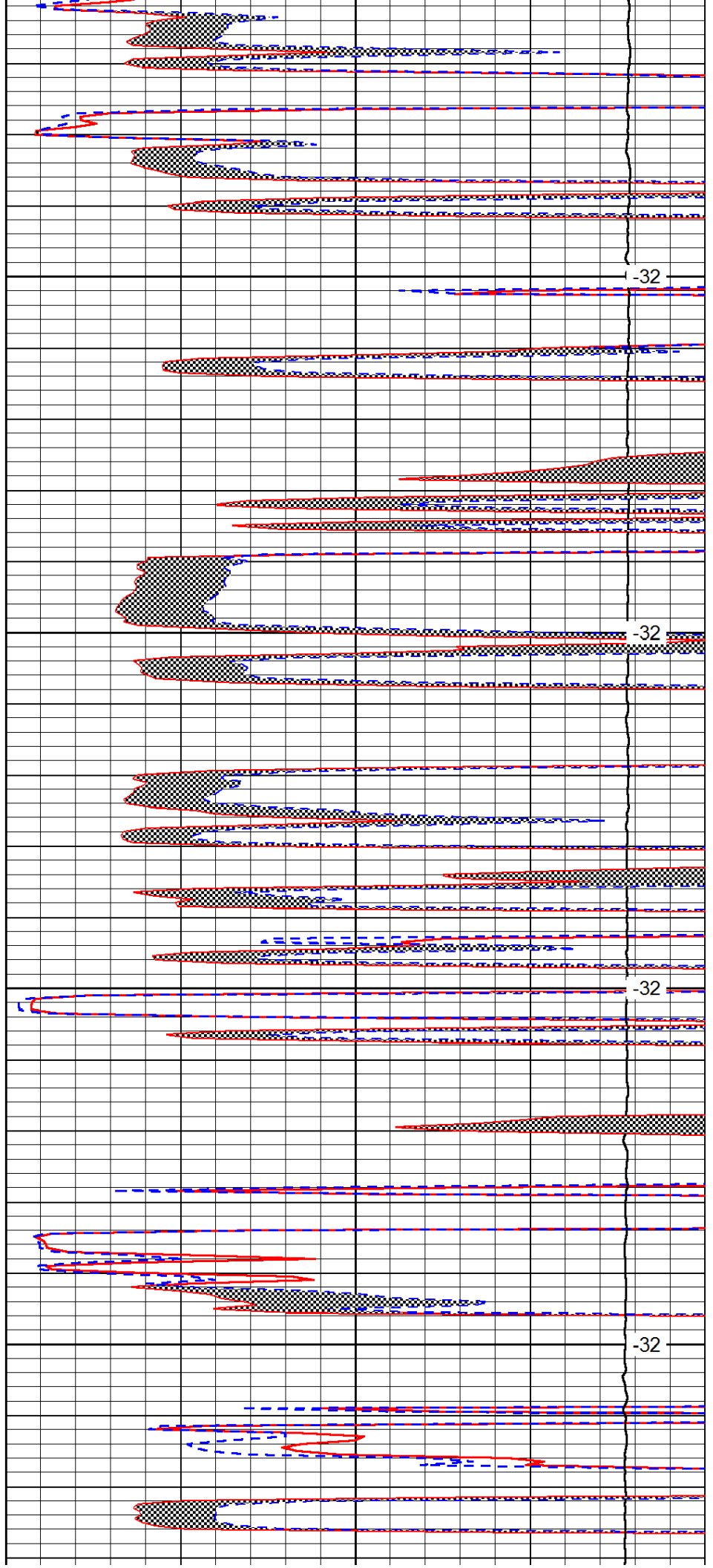


4050

4100

4150

4200

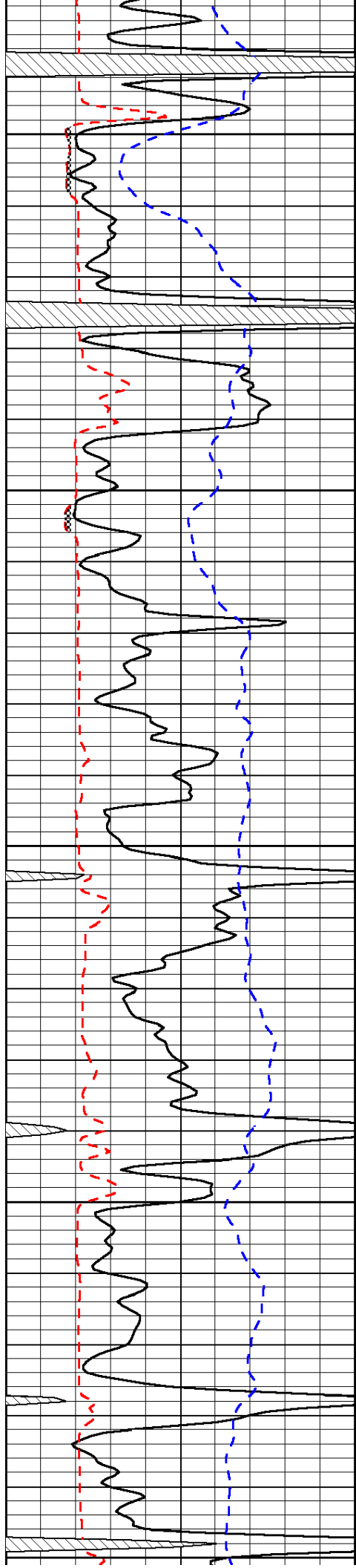


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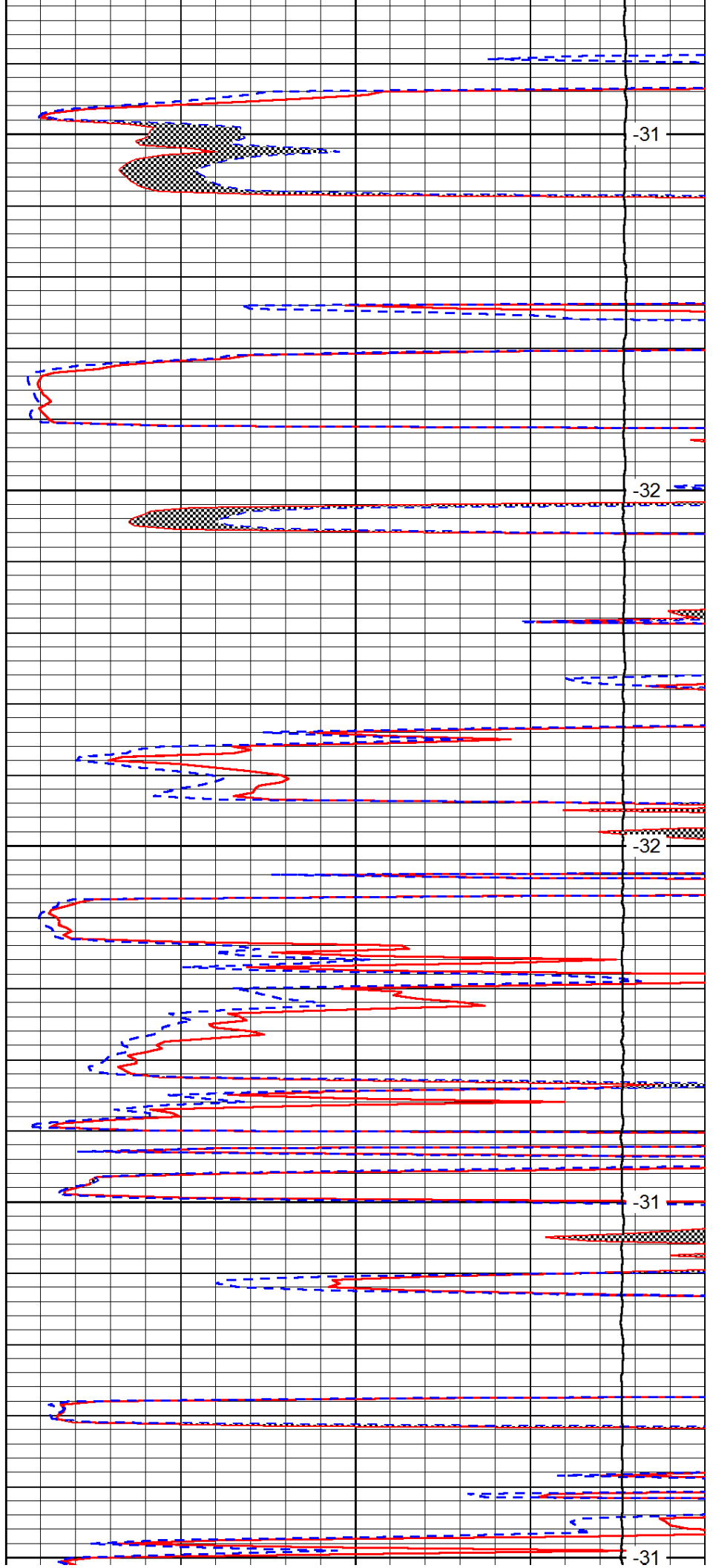
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4300

4350

4400

4450



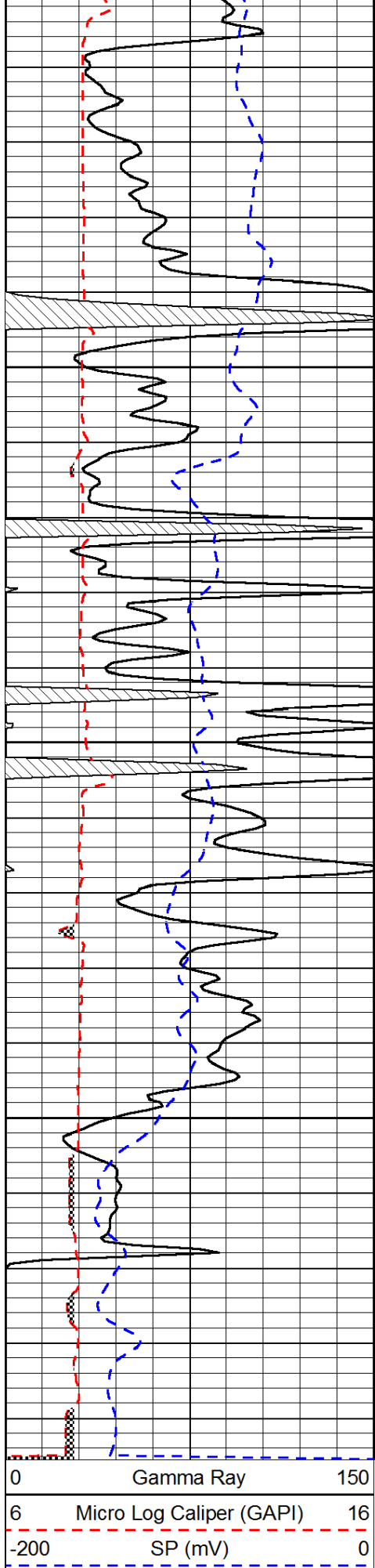
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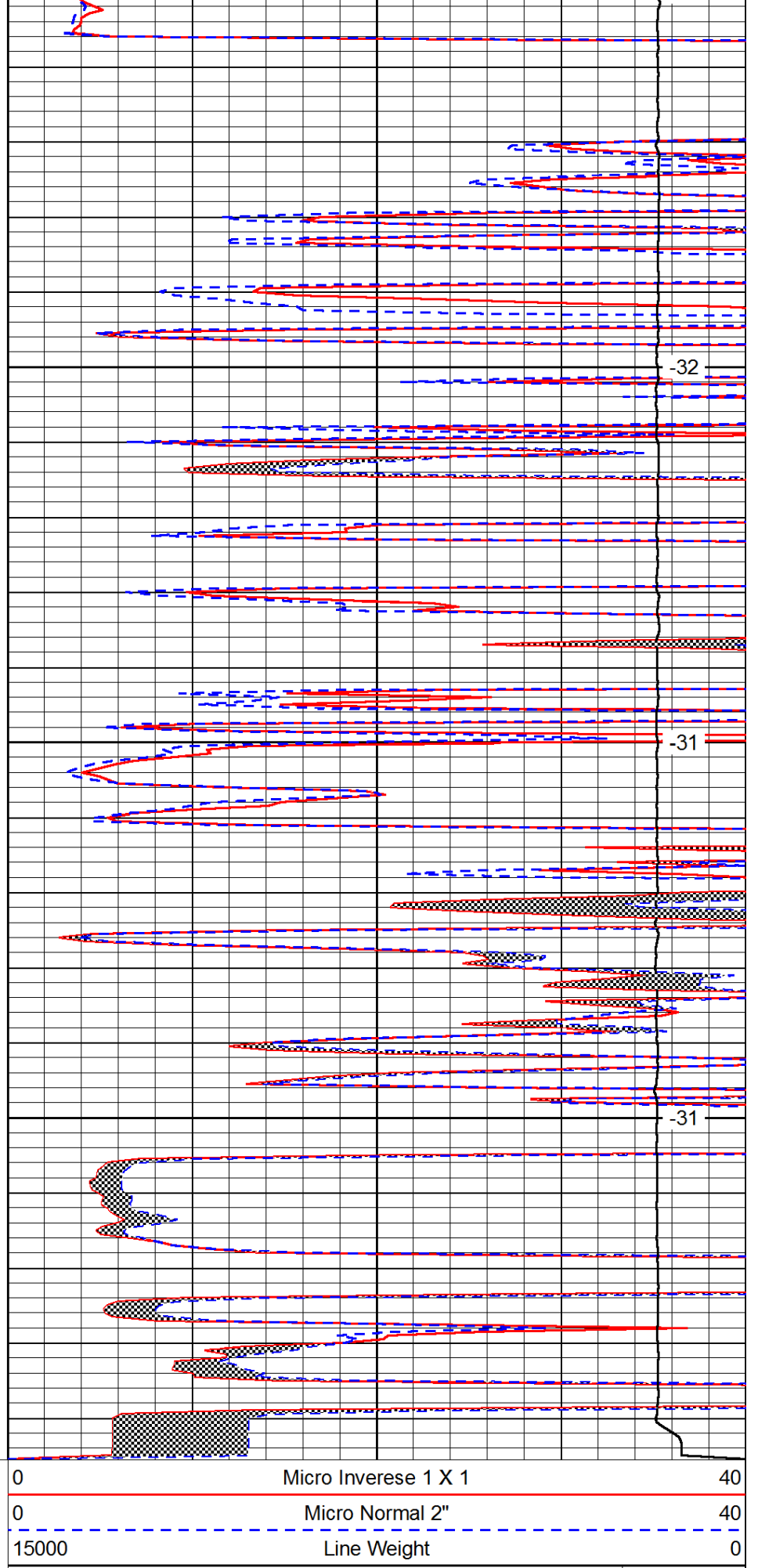


4500

4550

4600

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