



Microresistivity Log

Pioneer Energy Services

API No.

15-167-23,987-00-00

Company American Warrior, Inc.

Well Eulert #21-35

Field Eulert

County Russell State

Kansas

Location 1330' FSL & 2240' FEL

Sec: 35 Twp: 11S Rge: 15W

Other Services
CNL/CDL
DIL

Elevation

K.B. 1849
D.F. 1841
G.L. 1841

Permanent Datum Ground Level Elevation 1841
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 7/25/2014

Run Number Two

Depth Driller 3410

Depth Logger 3409

Bottom Logged Interval 3408

Top Log Interval 2500

Casing Driller 8.625 @ 902

Casing Logger 899

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 5.500

Density / Viscosity 9.3 48

pH / Fluid Loss 10.0 8.0

Source of Sample Flowline

Rm @ Meas. Temp .42 @ 80

Rmf @ Meas. Temp .32 @ 80

Rmc @ Meas. Temp .57 @ 80

Source of Rmf / Rmc Charts

Rm @ BHT .31 @ 110

Operating Rig Time 3 Hours

Max Rec. Temp. F 110

Equipment Number 17

Location	1330' FSL & 2240' FEL	Other Services CNL/CDL DIL
Sec: 35	Twp: 11S	Rge: 15W
Permanent Datum	Ground Level	Elevation 1841
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
Date	7/25/2014	
Run Number	Two	
Depth Driller	3410	
Depth Logger	3409	
Bottom Logged Interval	3408	
Top Log Interval	2500	
Casing Driller	8.625 @ 902	
Casing Logger	899	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	5.500	
Density / Viscosity	9.3 48	
pH / Fluid Loss	10.0 8.0	
Source of Sample	Flowline	
Rm @ Meas. Temp	.42 @ 80	
Rmf @ Meas. Temp	.32 @ 80	
Rmc @ Meas. Temp	.57 @ 80	
Source of Rmf / Rmc	Charts	
Rm @ BHT	.31 @ 110	
Operating Rig Time	3 Hours	
Max Rec. Temp. F	110	
Equipment Number	17	
Location	Hays	
Recorded By	C. Desaire	
Witnessed By	Adam Folk	

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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.

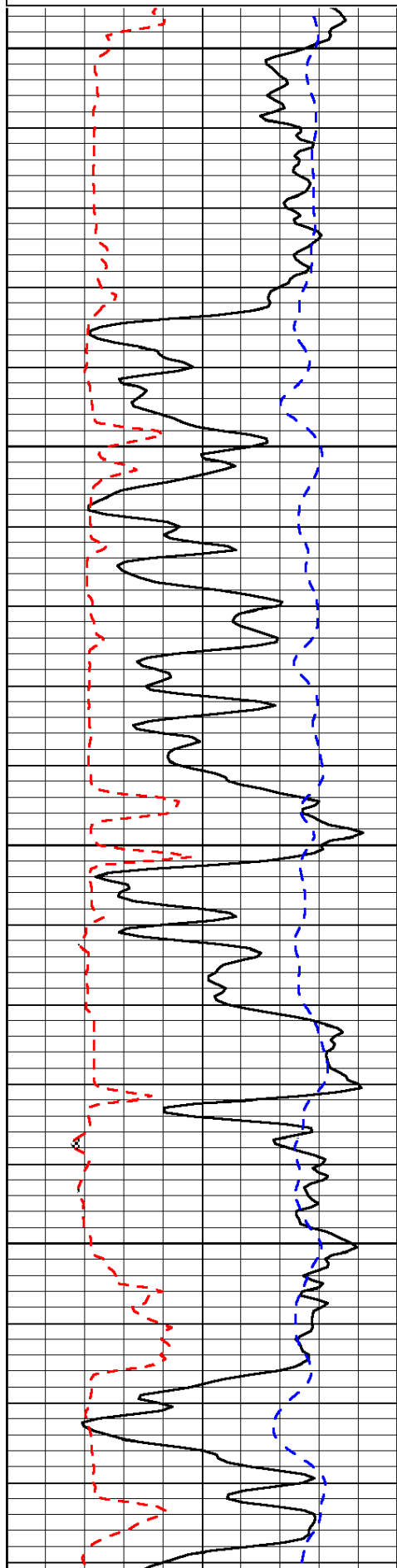
Comments

Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Russell KS, N to Mellard Rd,
W to 180 Rd, 3 1/4 N, W N W S 1/2 mile into

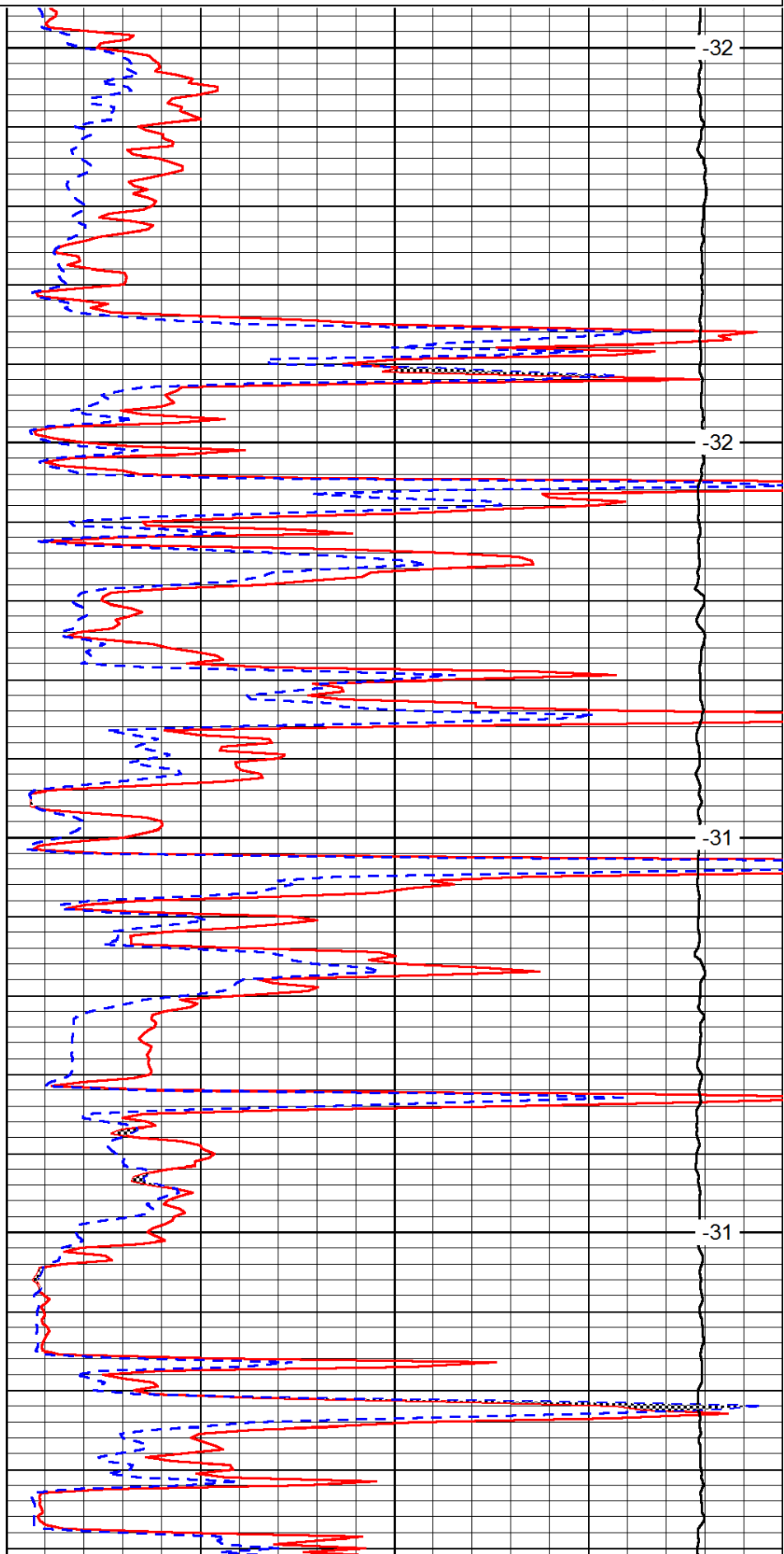
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Dataset Pathname: dil/awstk
Presentation Format: micro
Dataset Creation: Sat Jul 26 06:17:04 2014
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.10		
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

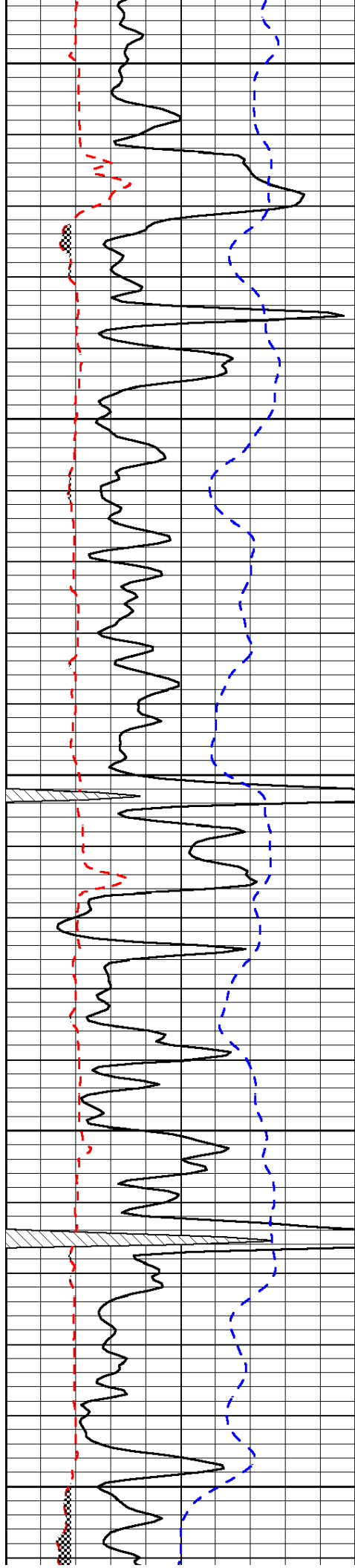


2500
2550
2600
2650

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



-32
-32
-31
-31



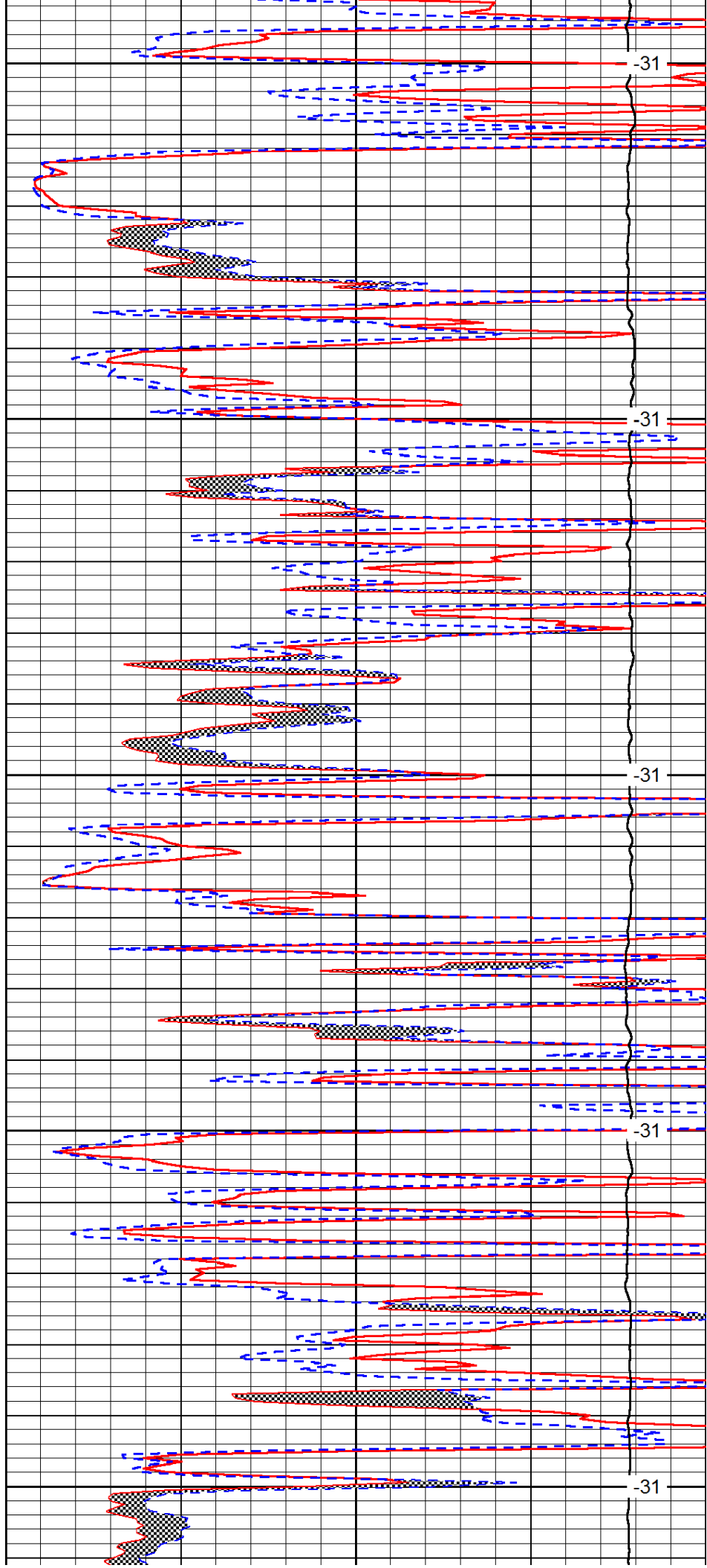
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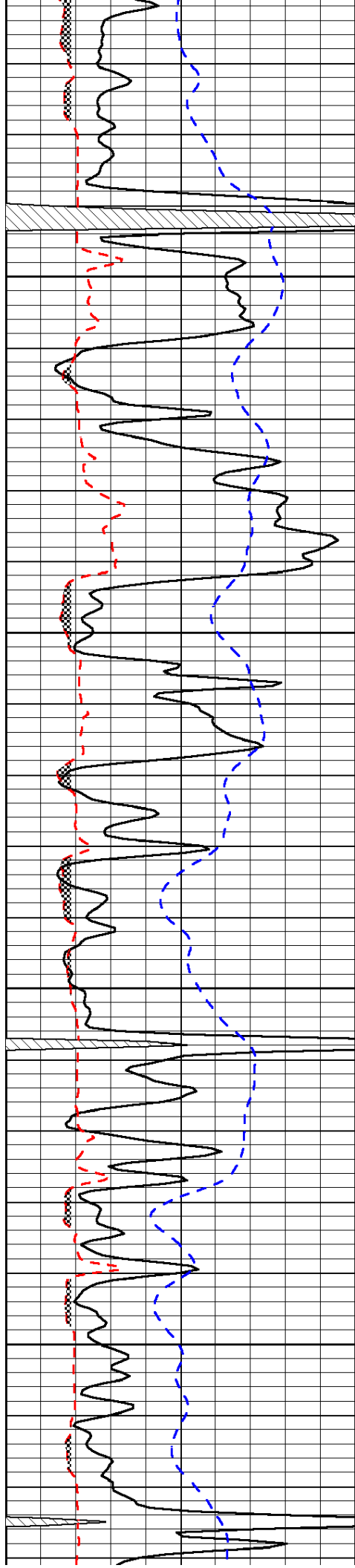
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2850

2900



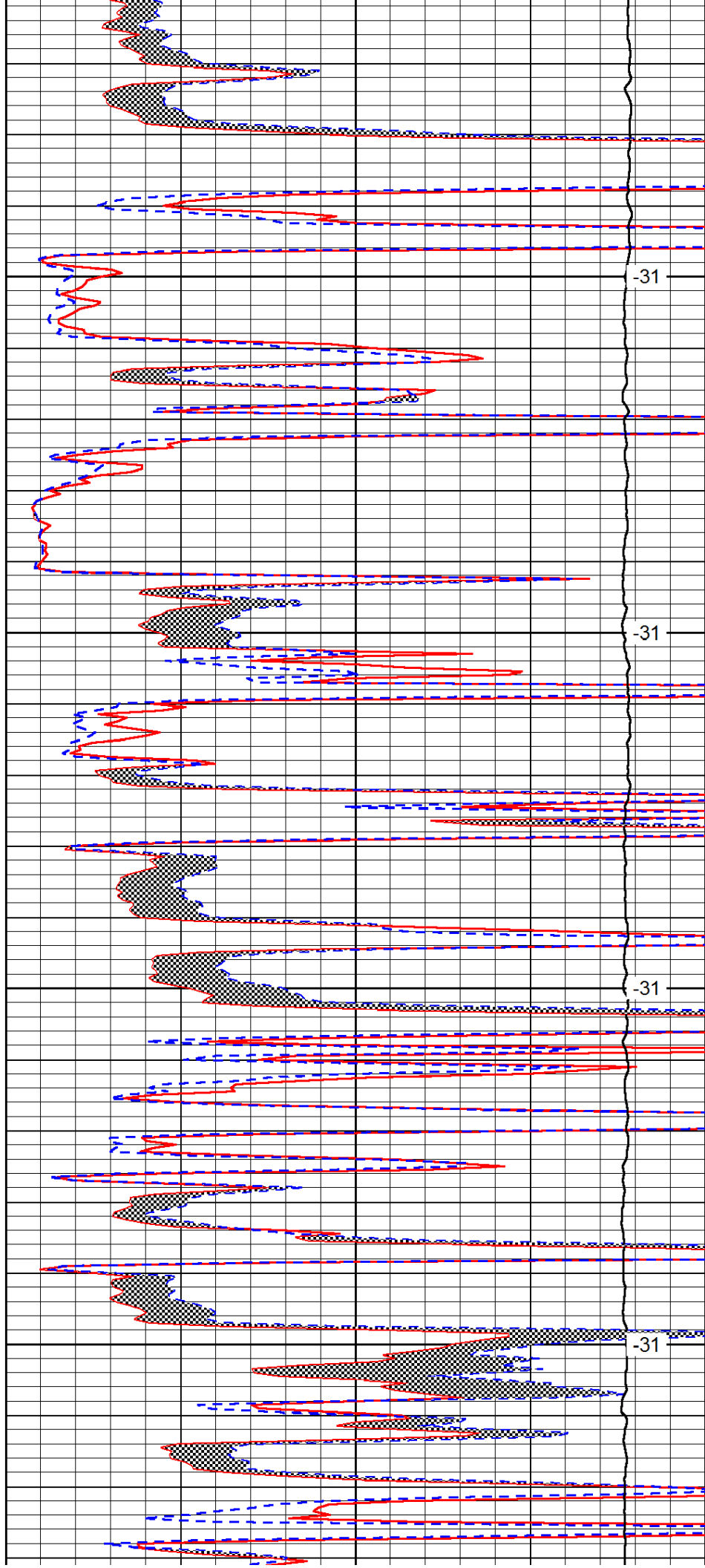


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3000

3050

3100

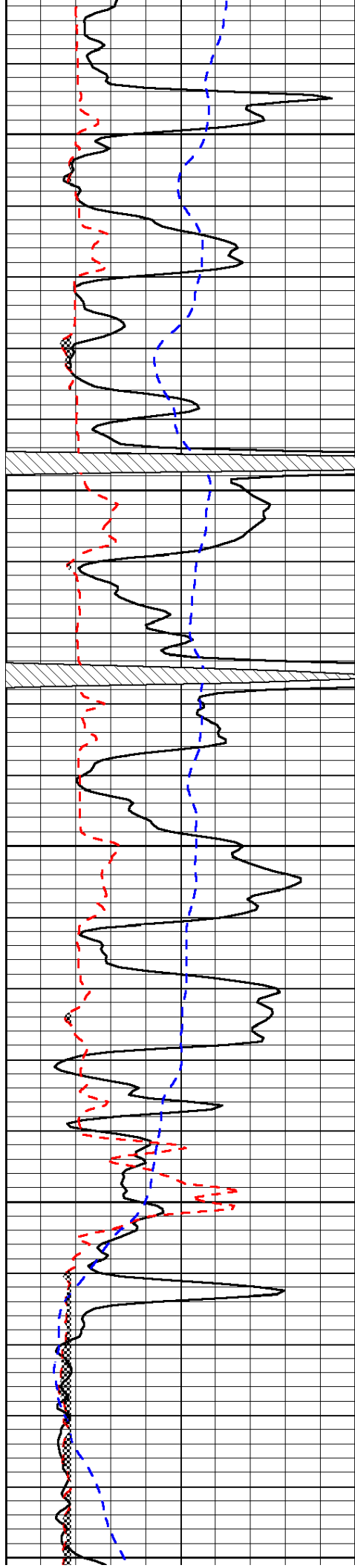


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-31

-31

-31



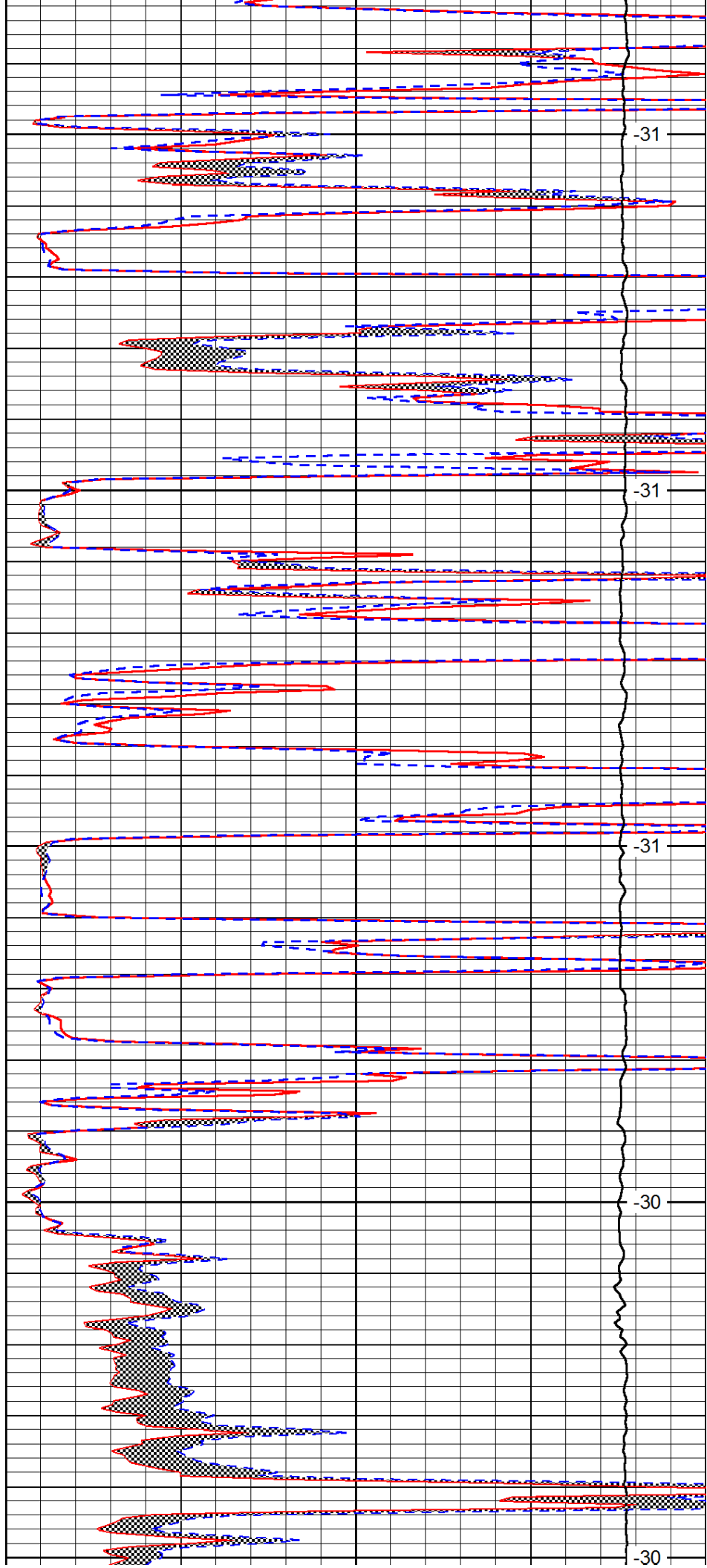
3150

3200

3250

3300

3350



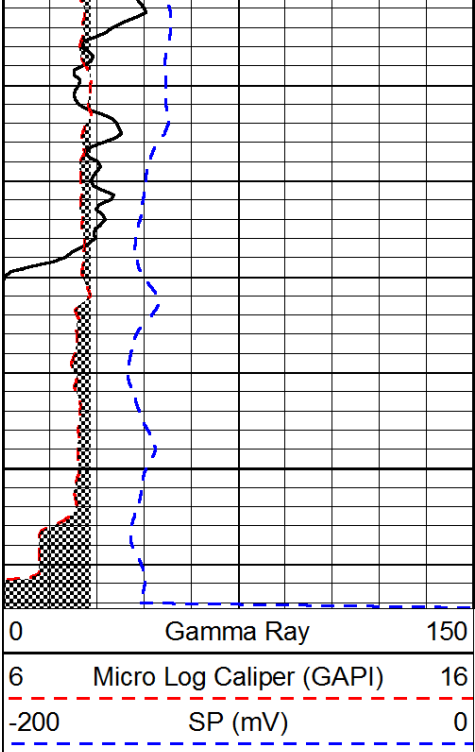
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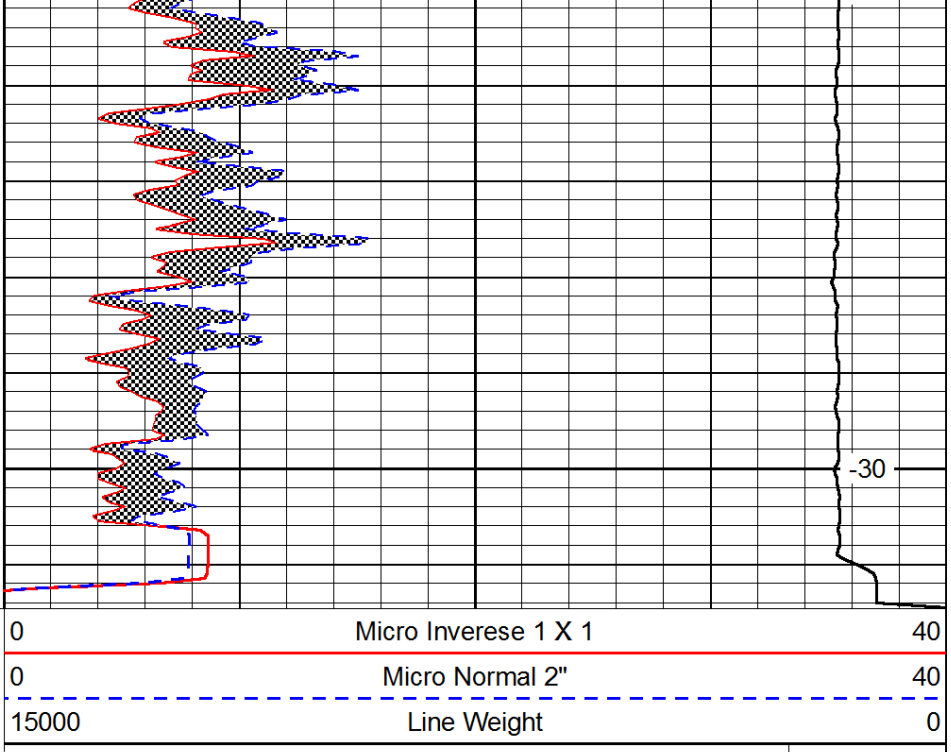
-31

-30

-30



3400



-30

LSPD