



Pioneer Energy Services

Microresistivity Log

API No.	Company Well Field County Location									
15-159-22,772-00-00	Primal Energy Oil & Gas, LLC Skiles #28-1 Cow Creek Southeast Rice State Kansas									
Sec: 28		Twp: 18S		Rge: 9W		Other Services CNL/CDL DIL				
Permanent Datum		Ground Level		Elevation 1706		Elevation				
Log Measured From		Kelly Bushing		8 Ft. Above Perm. Datum		K.B. 1714 D.F. 1706 G.L. 1706				
Drilling Measured From		Kelly Bushing								
Date		5/14/2014								
Run Number		Two								
Depth Driller		3290								
Depth Logger		3275								
Bottom Logged Interval		3274								
Top Log Interval		2500								
Casing Driller		8.625 @ 328								
Casing Logger		327								
Bit Size		7.875								
Type Fluid in Hole		Chemical								
Salinity,ppm CL		6,800								
Density / Viscosity		9.1 43								
pH / Fluid Loss		11.0 9.2								
Source of Sample		Flowline								
Rm @ Meas. Temp		.28 @ 57								
Rmf @ Meas. Temp		.21 @ 57								
Rmc @ Meas. Temp		.38 @ 57								
Source of Rmf / Rmc		Charts								
Rm @ BHT		.15 @ 109								
Operating Rig Time		3 1/2 Hours								
Max Rec. Temp. F		109								
Equipment Number		17								
Location		Hays								
Recorded By		C. Desaire								
Witnessed By		Tim Hendrick								

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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.

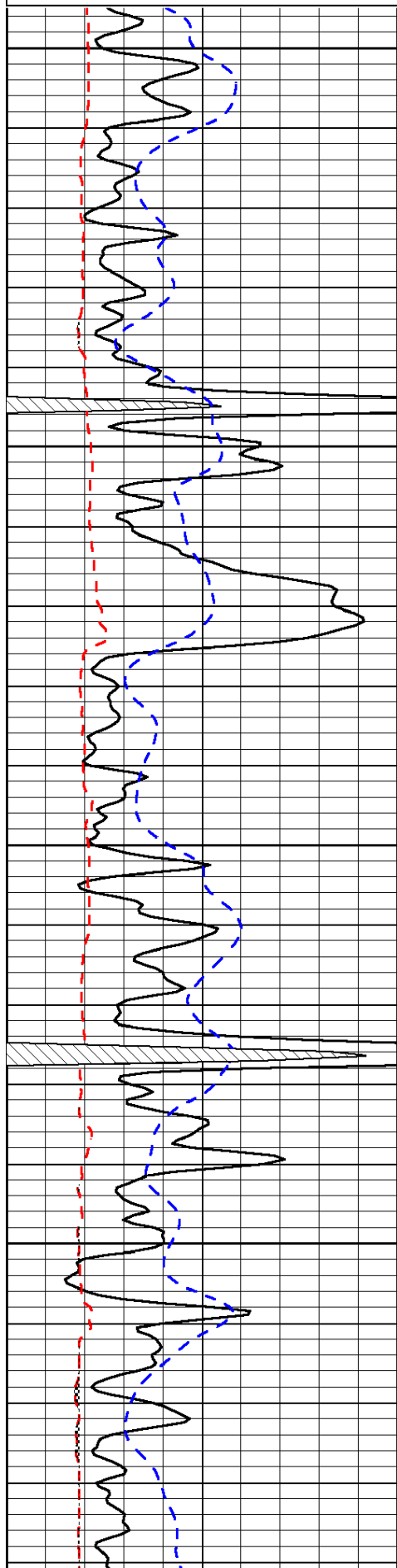
Comments

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

Chase KS, N to F Rd,
2 E, NW Into

Database File: c:\warrior\data\primal energy_skiles #28-1\primalhd.db
Dataset Pathname: dil/prmlstk
Presentation Format: micro
Dataset Creation: Wed May 14 03:10:35 2014
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

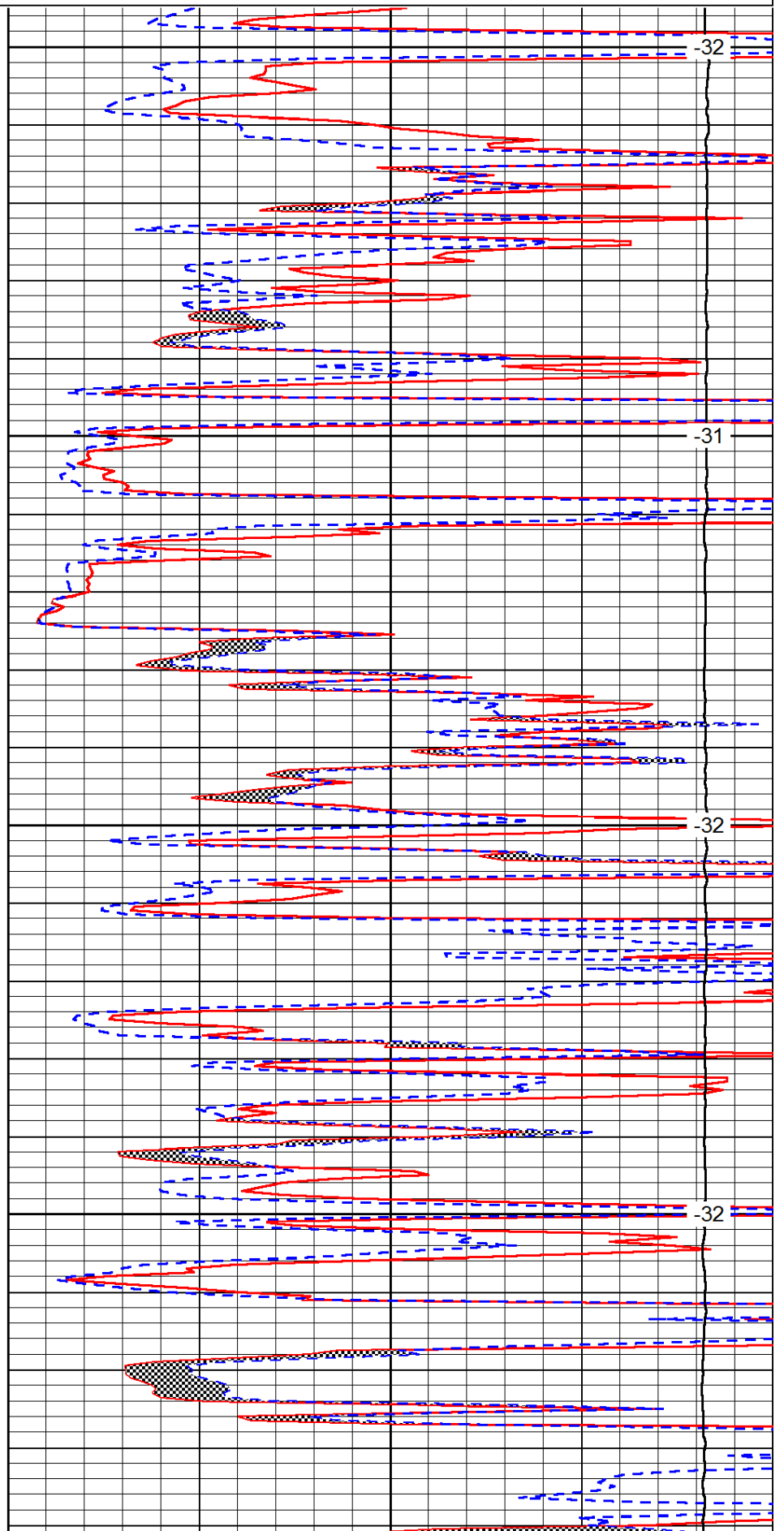


2500

2550

2600

2650



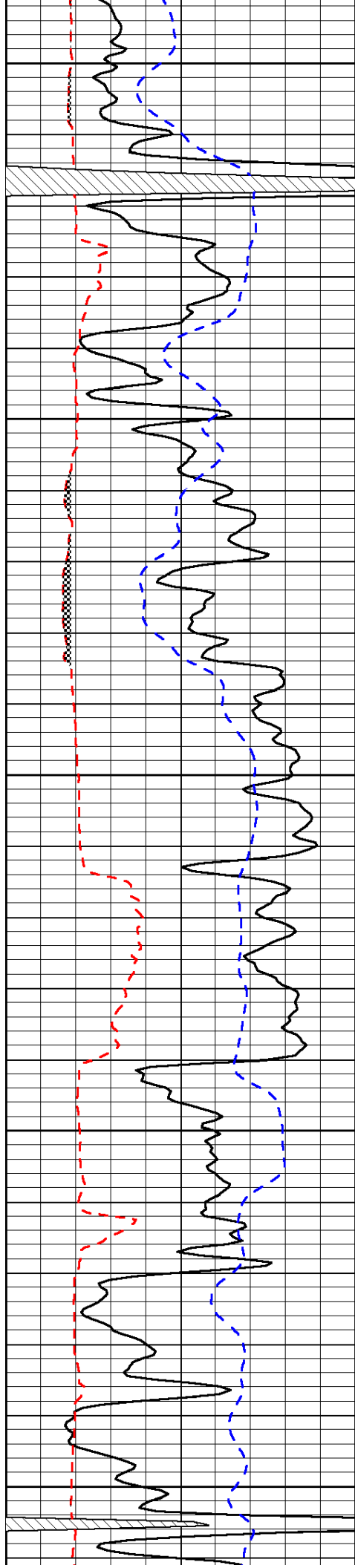
-32

-31

-32

-32

LSPD



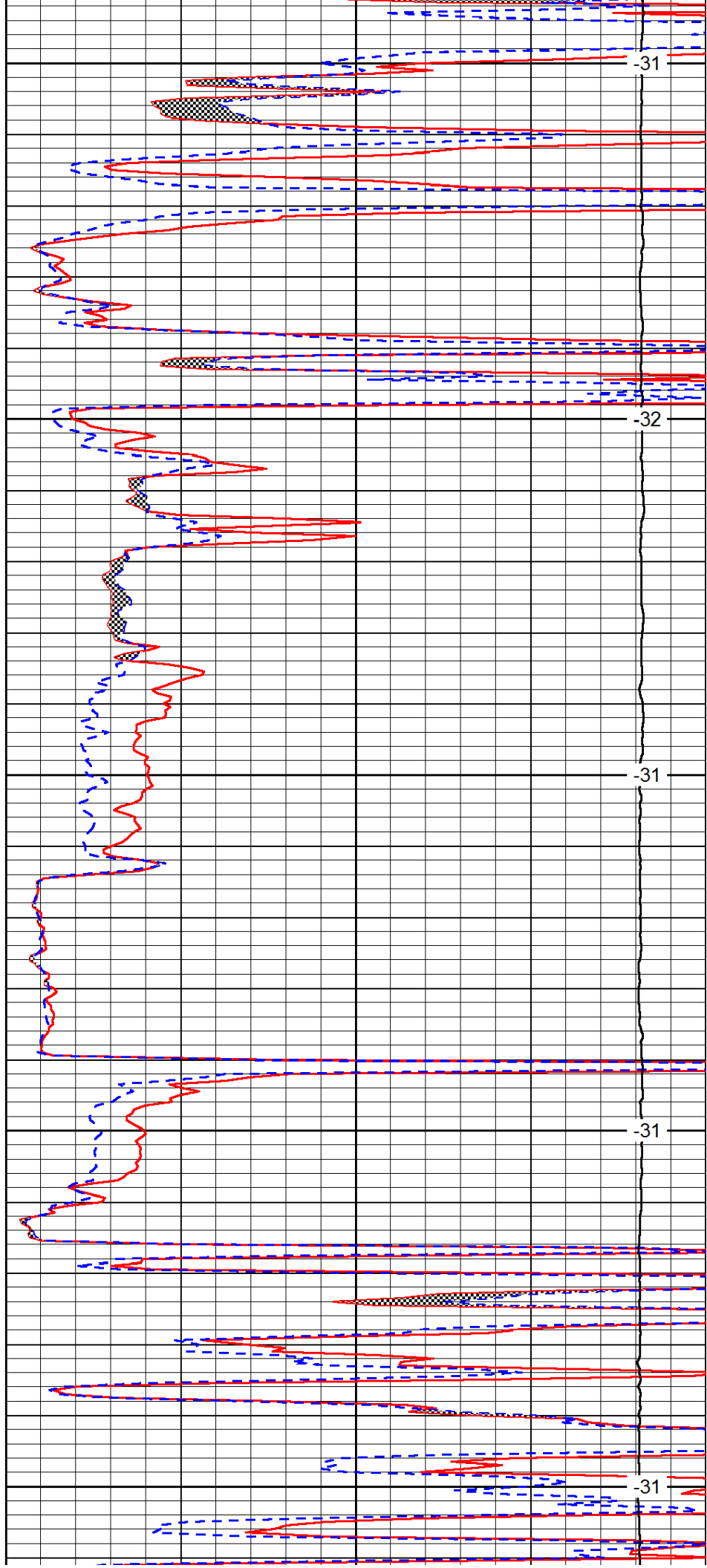
2700

2750

2800

2850

2900



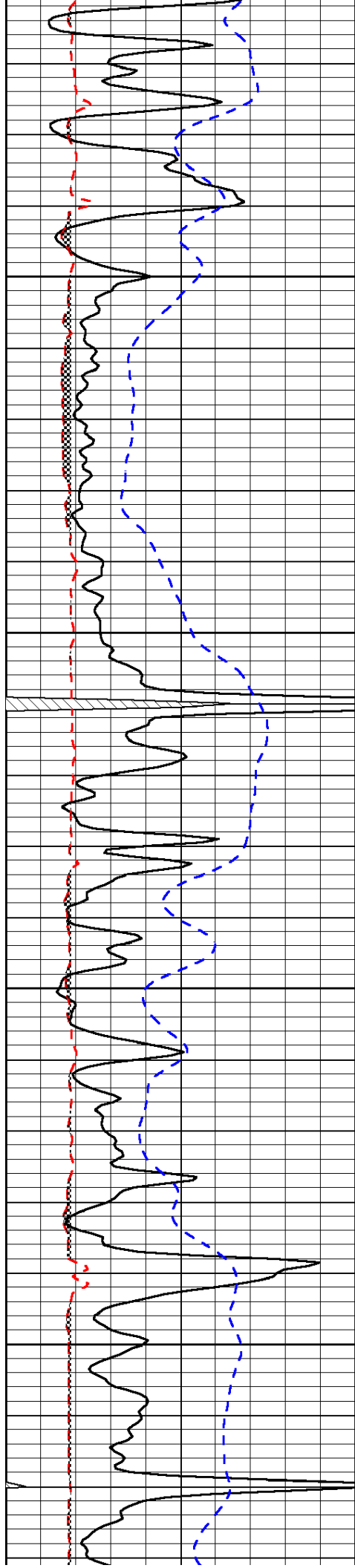
-31

-32

-31

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-31

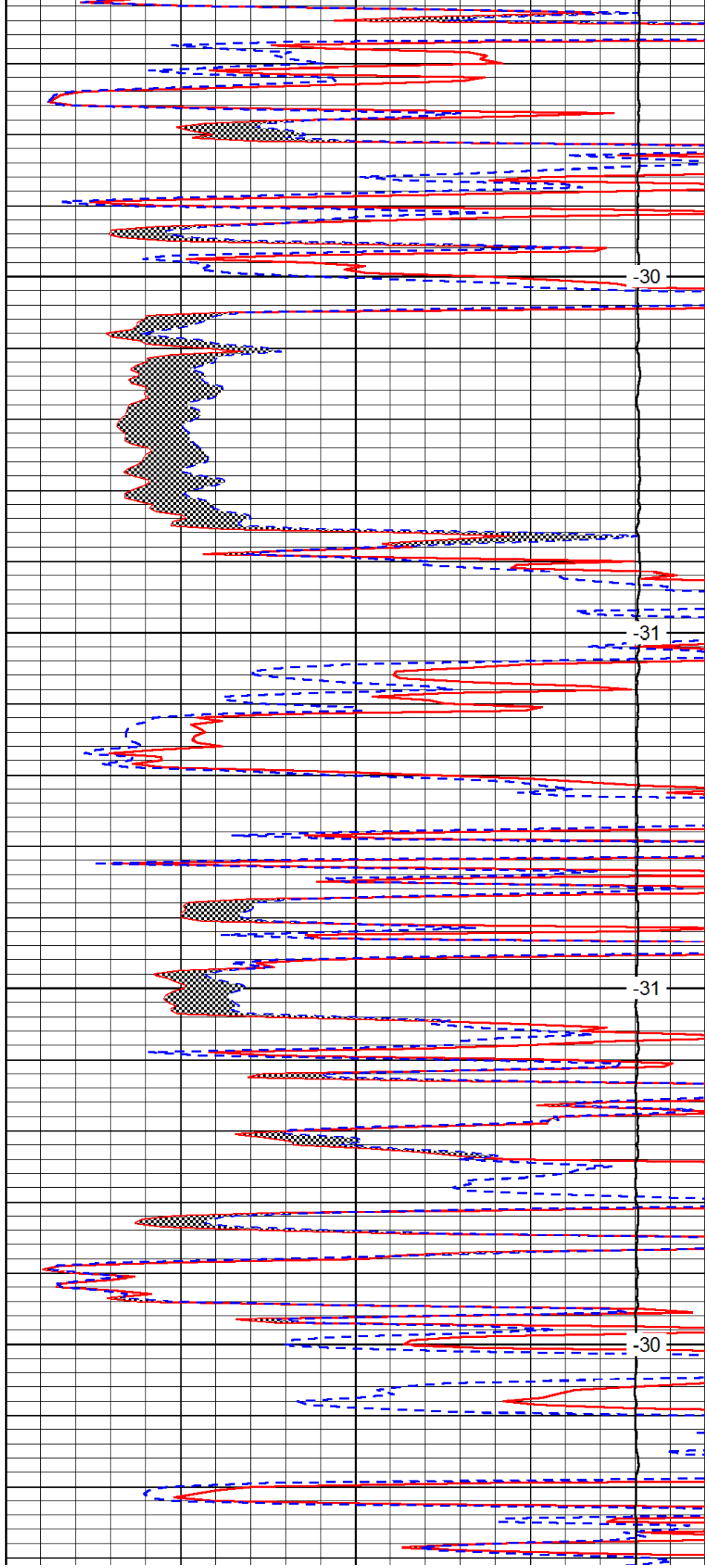


2950

3000

3050

3100

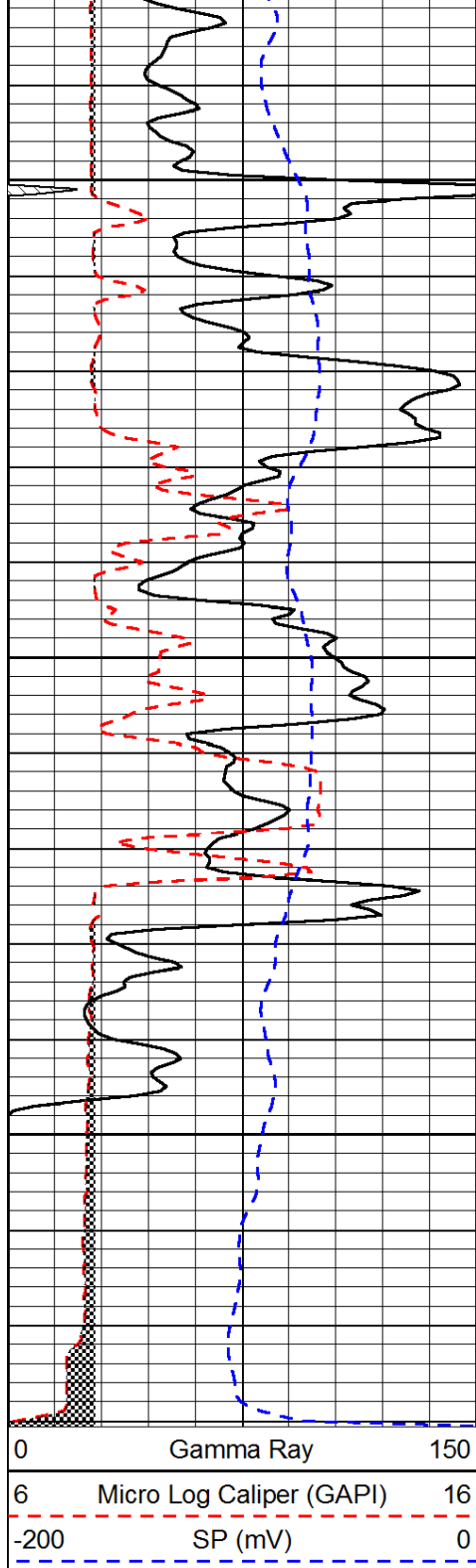


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-31

-31

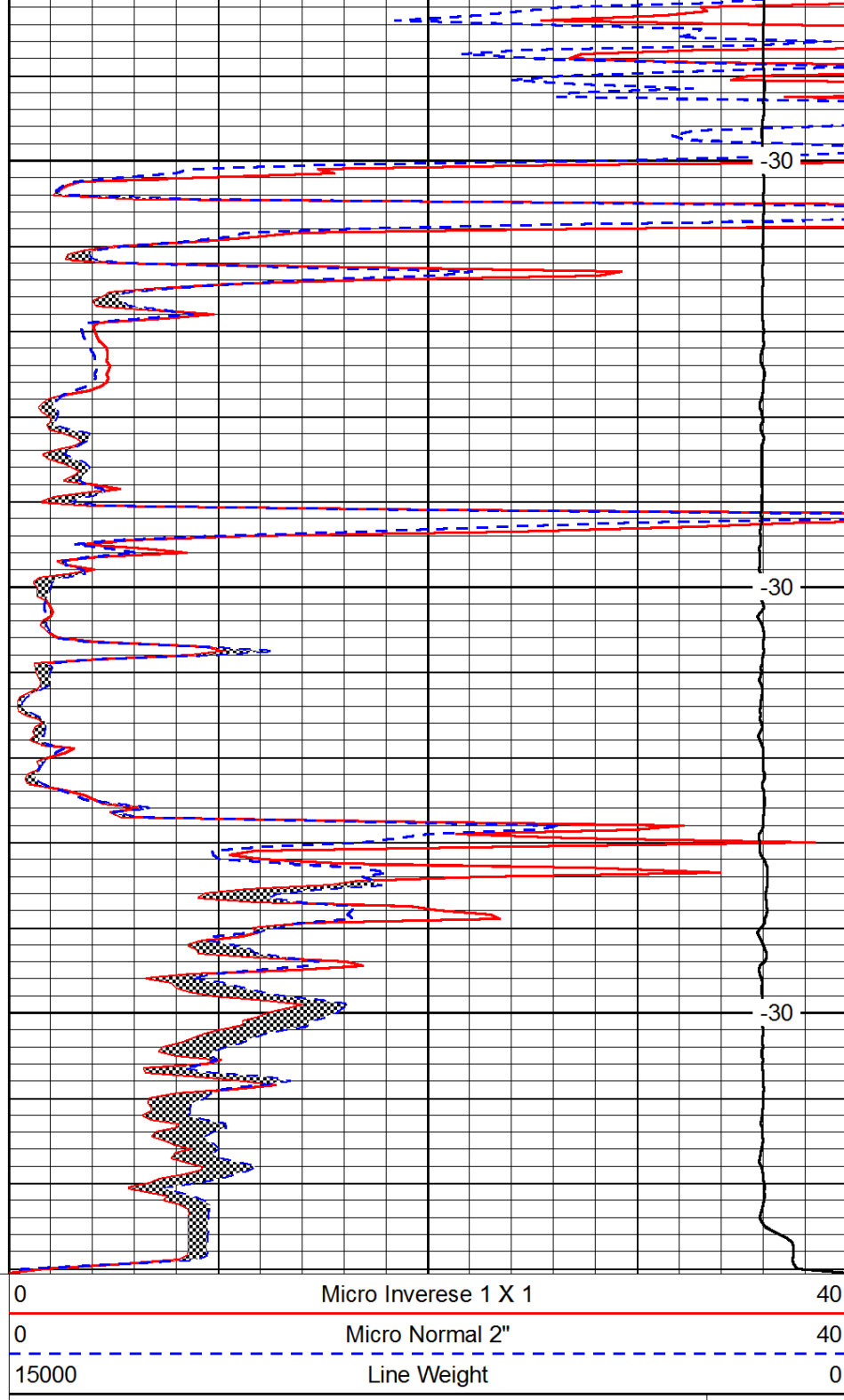
-30



3150

3200

3250



LSPD