



Pioneer Energy Services

Microresistivity Log

API No.	Company L.D. Drilling, Inc.			
	Well Hammeke-Mary S Unit #1-9			
	Field Knop			
	County Barton State Kansas			
	Location	2350' FNL & 850' FEL		Other Services CNL/CDL DIL
	Sec: 9	Twp: 19S	Rge: 12W	Elevation
Permanent Datum	Ground Level			K.B. 1829
Log Measured From	Kelly Bushing	5	Ft. Above Perm. Datum	D.F. 1824
Drilling Measured From	Kelly Bushing			G.L. 1824
Date	10/1/2012			
Run Number	Two			
Depth Driller	3434			
Depth Logger	3433			
Bottom Logged Interval	3432			
Top Log Interval	2800			
Casing Driller	8.625 @ 305			
Casing Logger	311			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	30,000			
Density / Viscosity	9.3 56			
pH / Fluid Loss	8.5 28.0			
Source of Sample	Flowline			
Rm @ Meas. Temp	.65 @ 68			
Rmf @ Meas. Temp	.49 @ 68			
Rmc @ Meas. Temp	.88 @ 68			
Source of Rmf / Rmc	Charts			
Rm @ BHT	.4 @ 110			
Operating Rig Time	3 1/2 Hours			
Max Rec. Temp. F	110			
Equipment Number	17			
Location	Hays			
Recorded By	C. Desaire			
Witnessed By	Josh Austin			

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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.

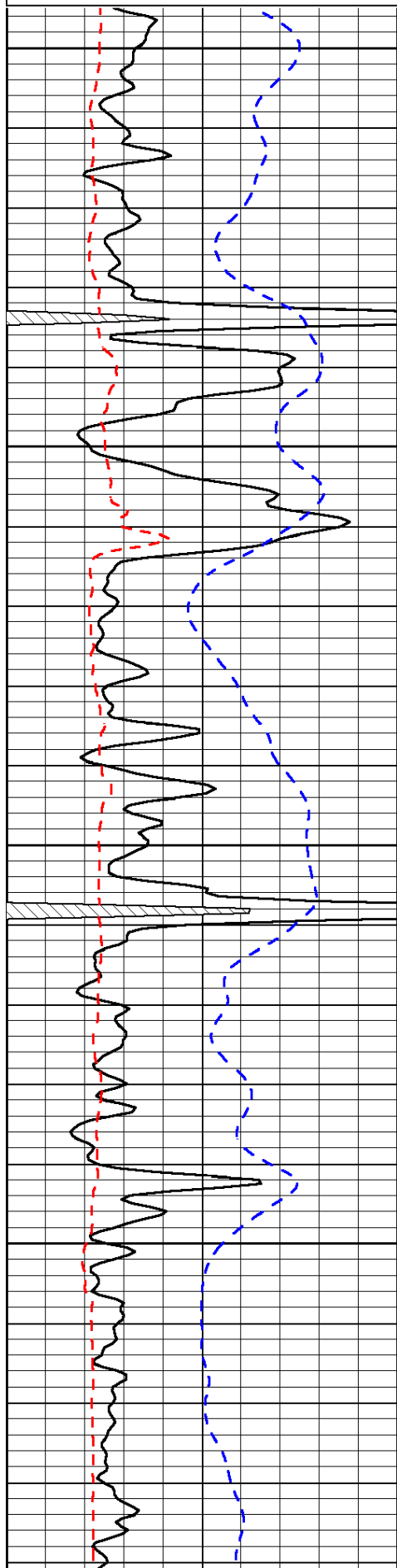
Comments

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

Hoisington KS, S to 30 Rd(College Rd)
E to Hwy 156, 1 E, 1/2 N, W Into

Database File: c:\warrior\data\ld drilling_hammeke-mary s unit #1-9\ldhd.db
Dataset Pathname: dil\ldstk
Presentation Format: micro
Dataset Creation: Mon Oct 01 16:11:57 2012
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

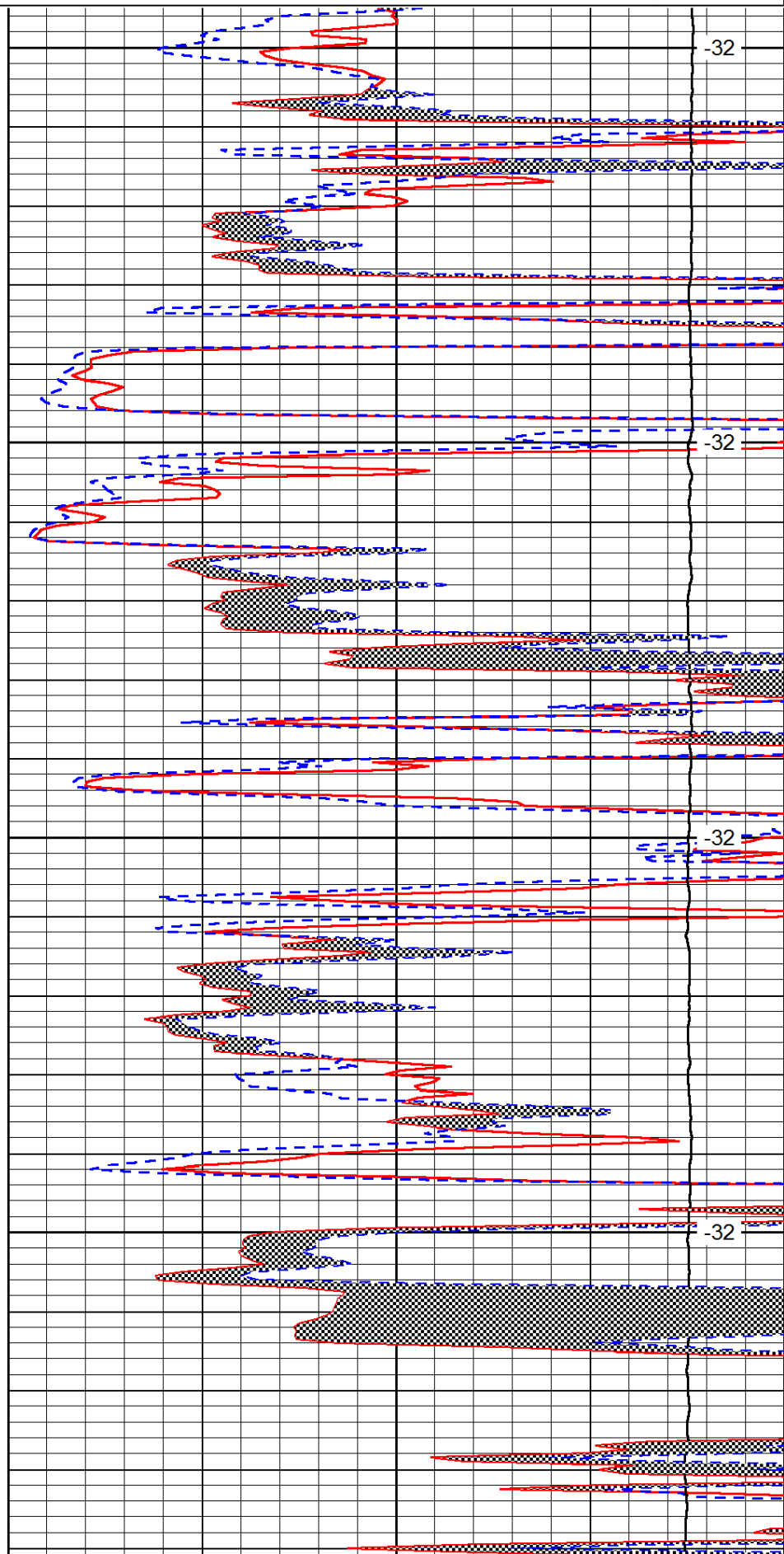


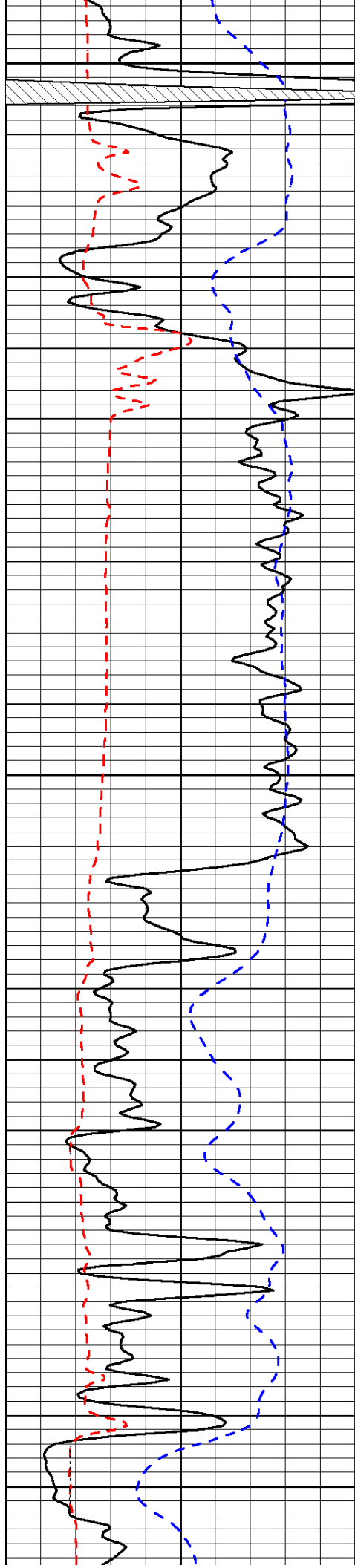
2800

2850

2900

2950





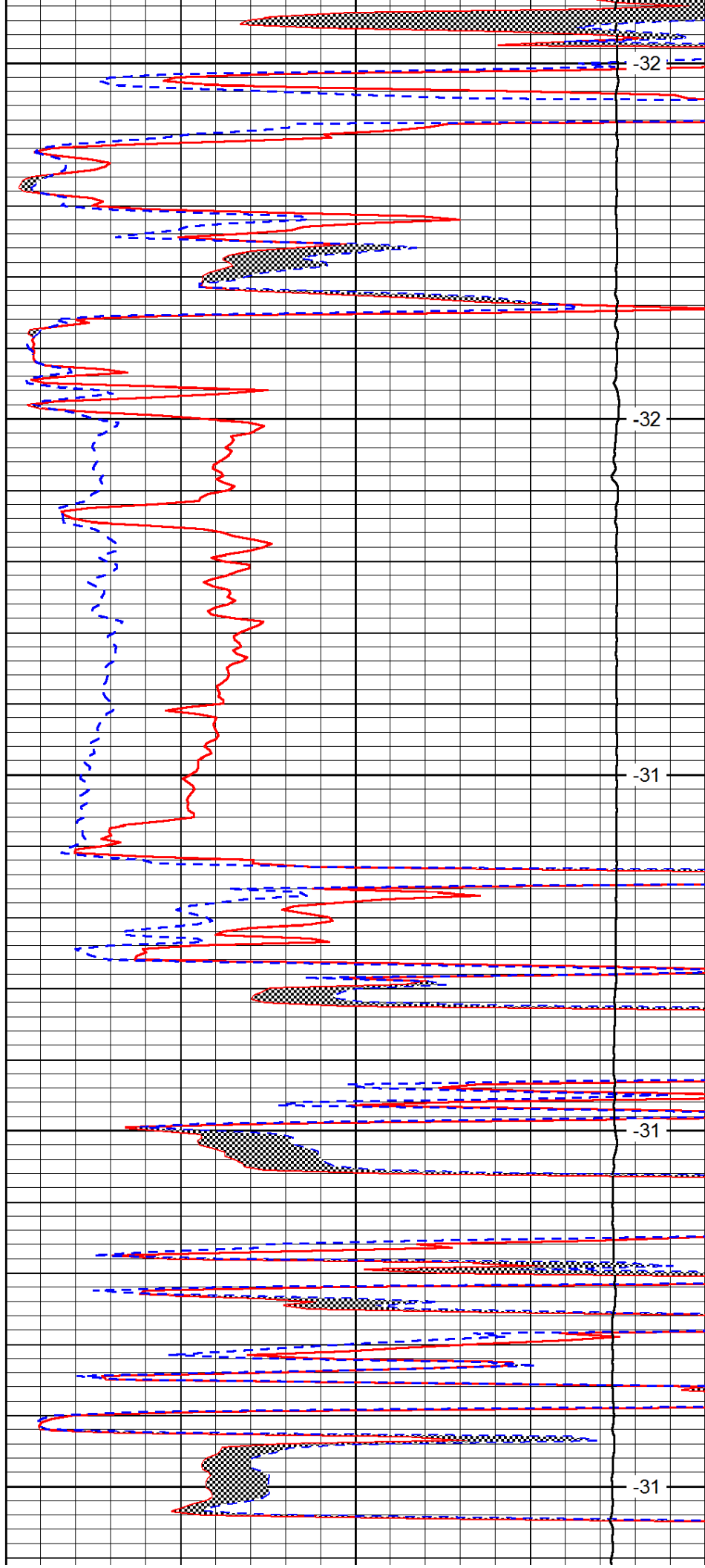
3000

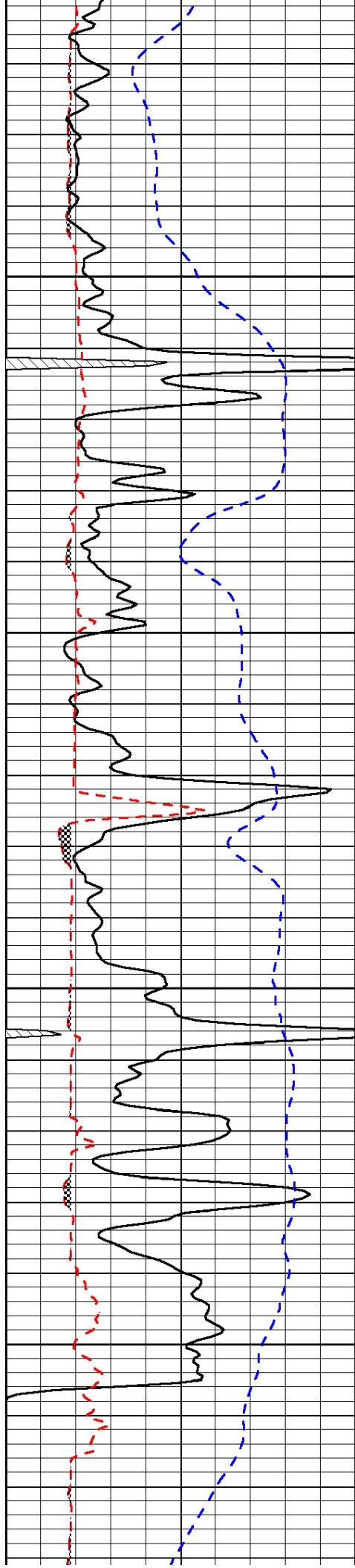
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3100

3150

3200



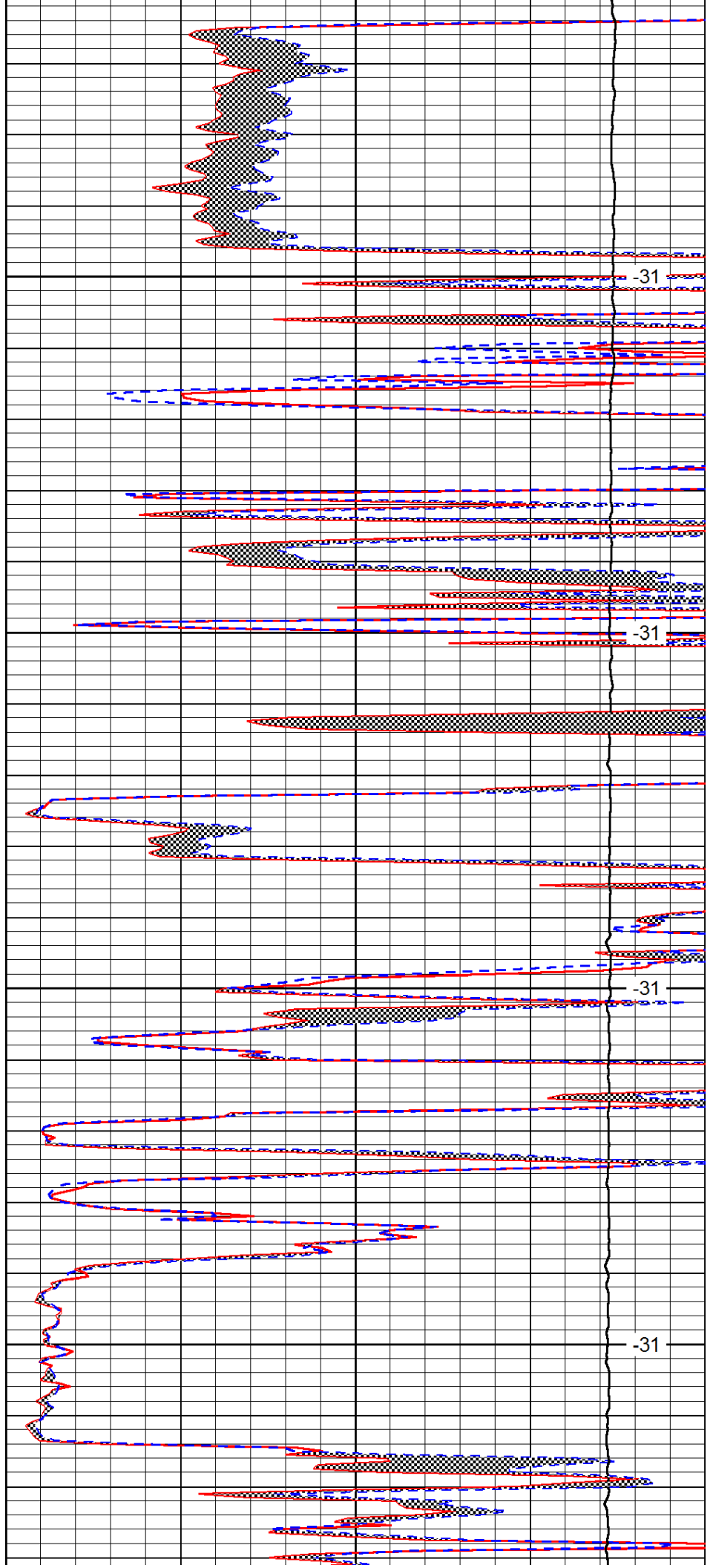


3250

3300

3350

3400

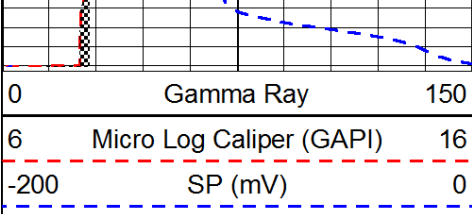


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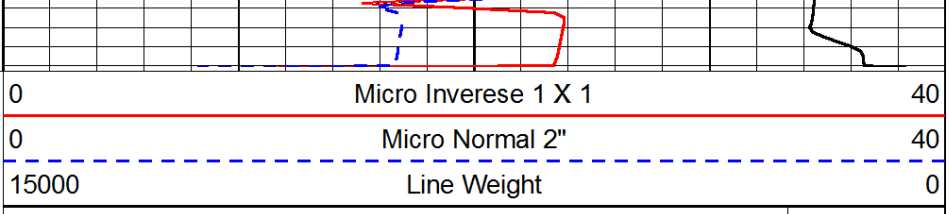
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0 Gamma Ray 150

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