



Pioneer Energy Services

Microresistivity Log

API No.	Company Well Field County										RAMA Operating Company, Inc. Beran #1-10 Hall-Gurney Russell										State		Kansas		
Location												2300' FSL & 420' FWL										Other Services CNL/CDL DIL			
Sec: 10												Twp: 15S										Rge: 12W			
Permanent Datum												Ground Level										Elevation 1809			
Log Measured From												Kelly Bushing										13 Ft. Above Perm. Datum			
Drilling Measured From												Kelly Bushing										K.B. 1822 D.F. G.L. 1809			
Date												2/17/2014													
Run Number												Two													
Depth Driller												3375													
Depth Logger												3374													
Bottom Logged Interval												3373													
Top Log Interval												2700													
Casing Driller												8.625 @ 731													
Casing Logger												29													
Bit Size												7.875													
Type Fluid in Hole												Chemical													
Salinity,ppm CL												4000													
Density / Viscosity												9.5 52													
pH / Fluid Loss												10.0 8.4													
Source of Sample												Flowline													
Rm @ Meas. Temp												0.50 @ 58													
Rmf @ Meas. Temp												0.38 @ 58													
Rmc @ Meas. Temp												0.68 @ 58													
Source of Rmf / Rmc												Charts													
Rm @ BHT												0.26 @ 110													
Operating Rig Time												4 Hours													
Max Rec. Temp. F												110													
Equipment Number												91													
Location												Hays													
Recorded By												D. Schmidt													
Witnessed By												Josh Austin													

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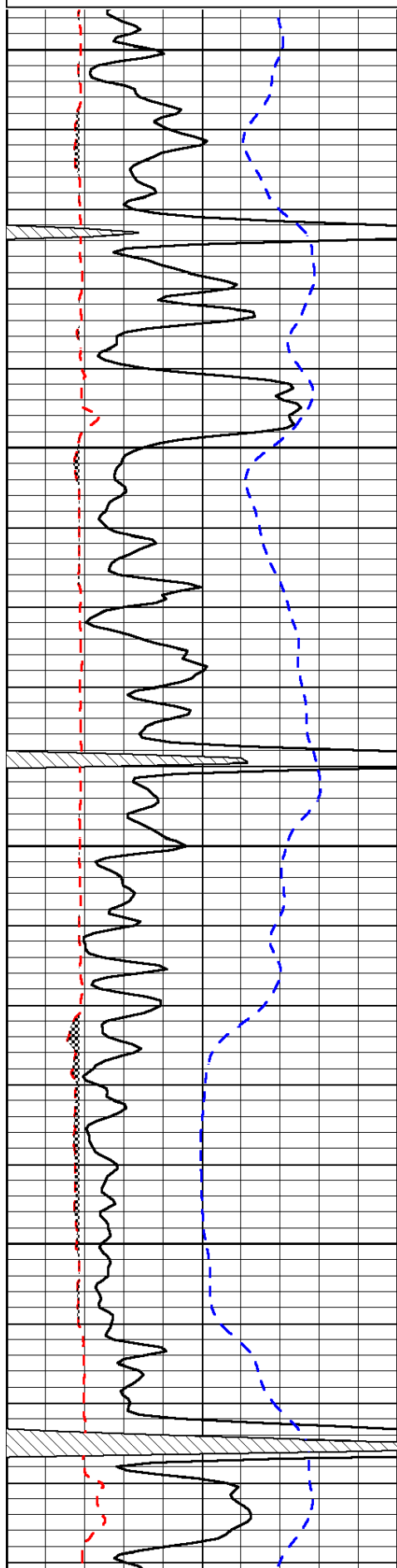
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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
Bunker Hill,
South to the dead end, East to 196 Rd, 2 South,
East & North into

Database File: c:\warrior\data\rama_beran #1-10\rama_0221714hd.db
Dataset Pathname: dil\ramstck
Presentation Format: micro
Dataset Creation: Mon Feb 17 21:44:58 2014
Charted by: Depth in Feet scaled 1:240

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



2700

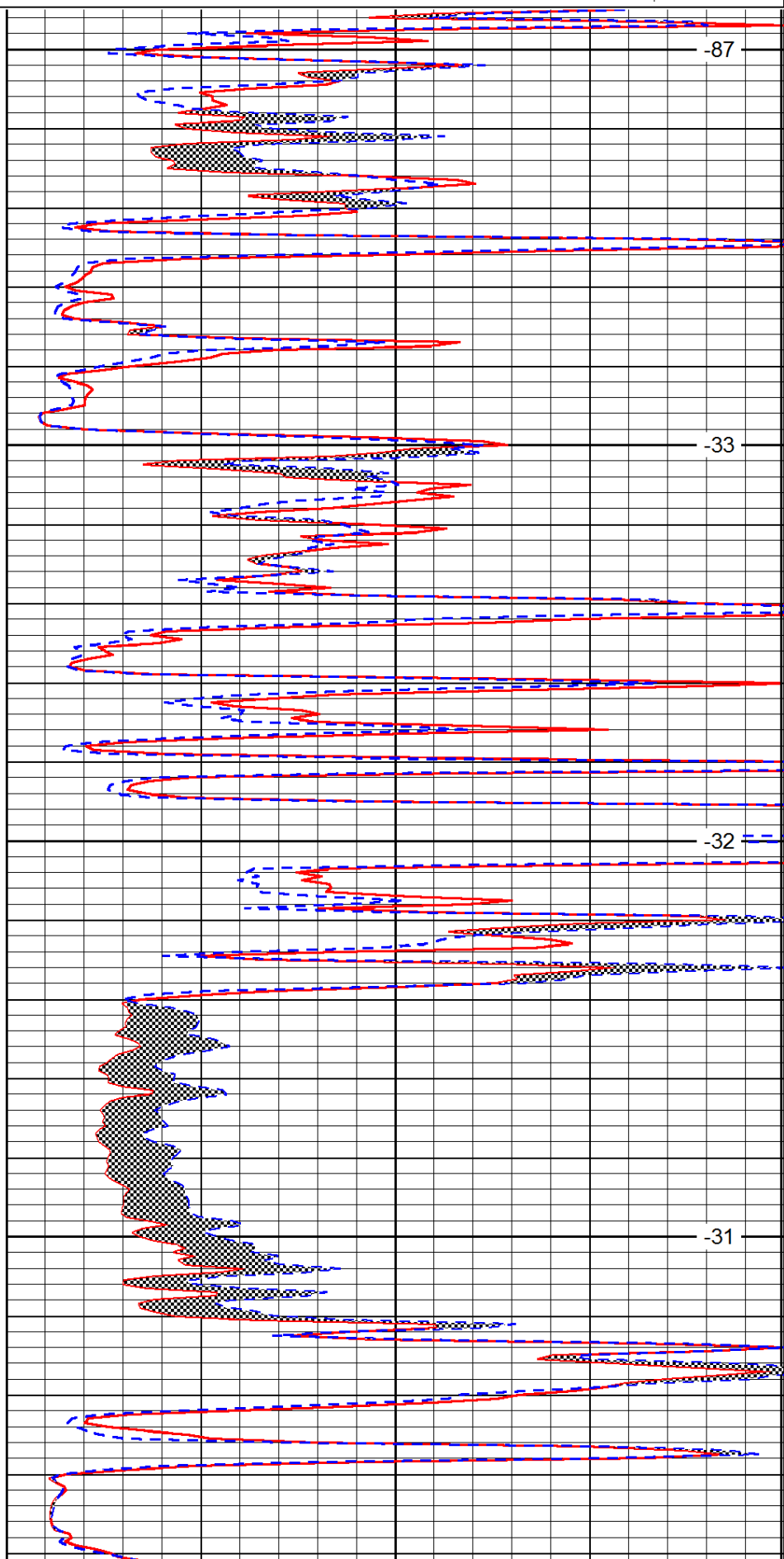
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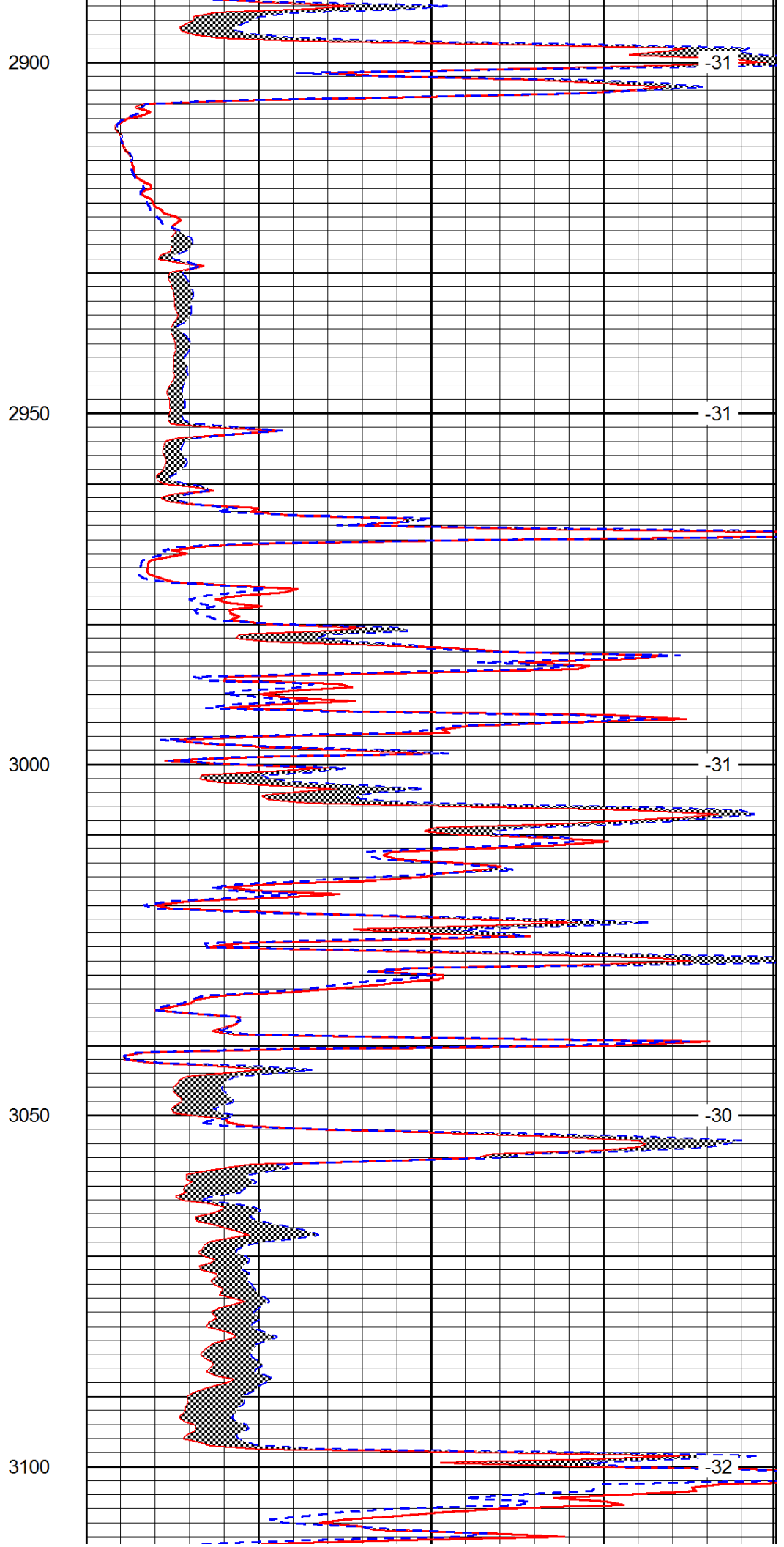
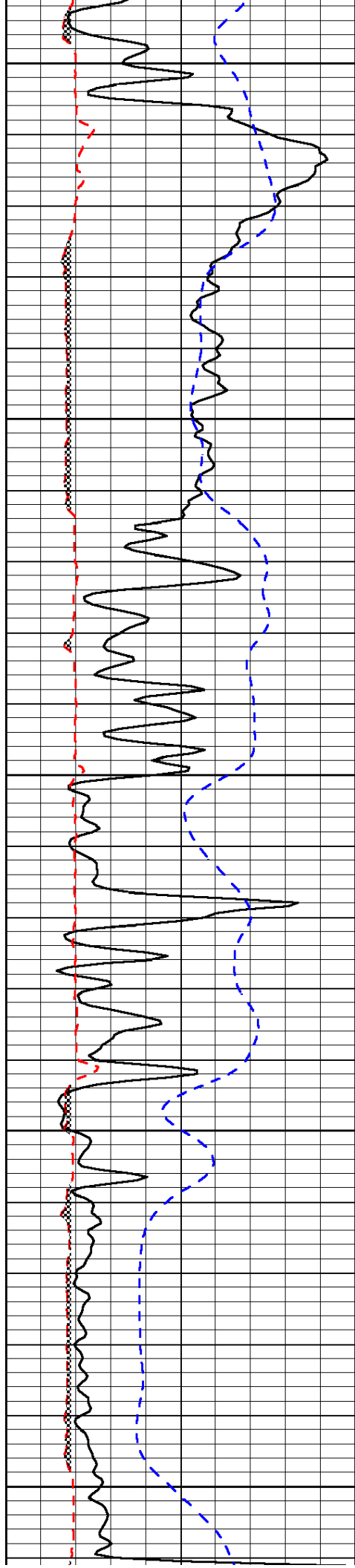
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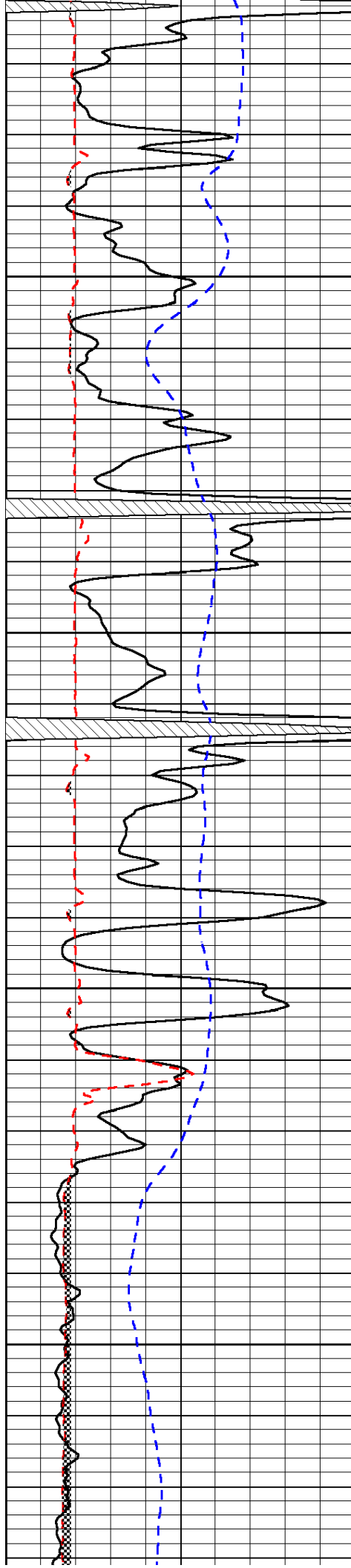
2850

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

LSPD





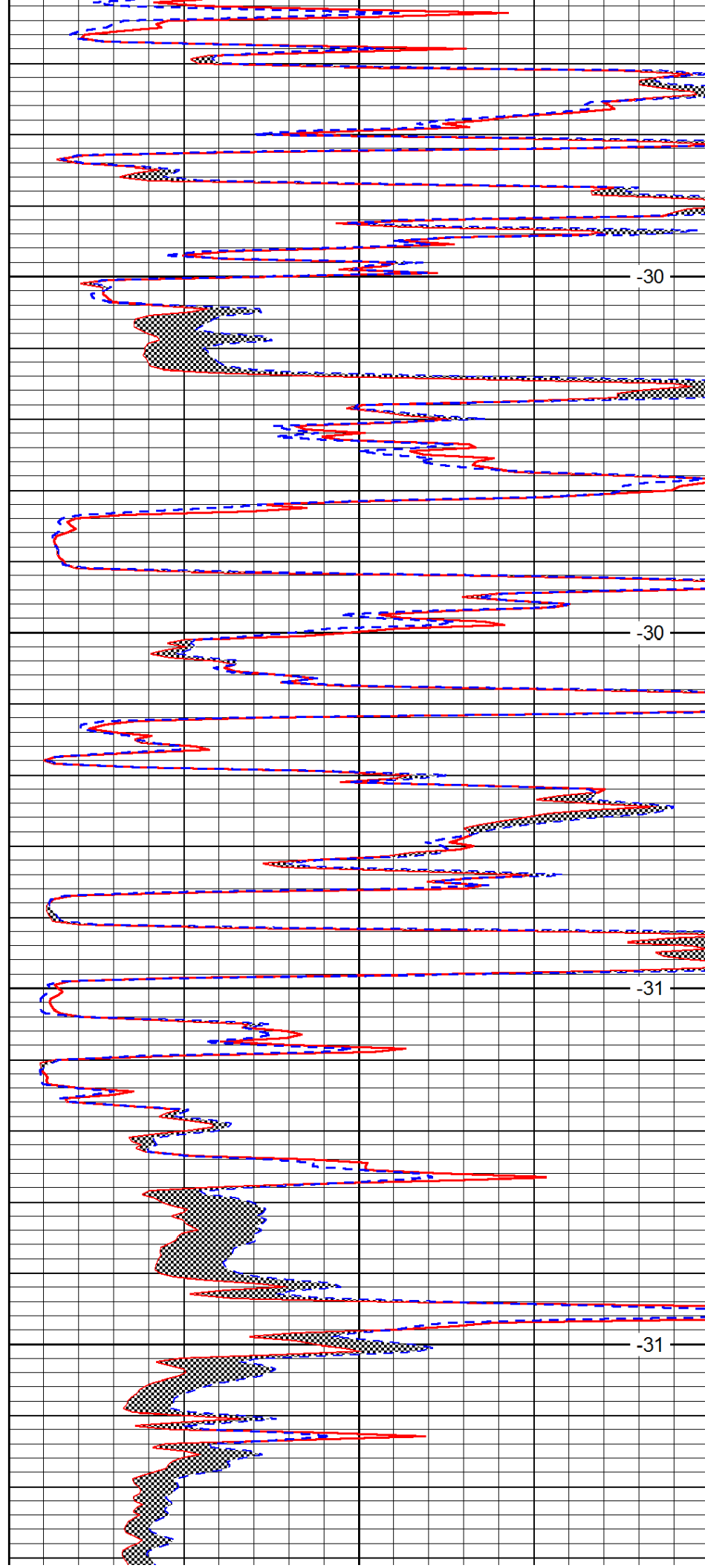


3150

3200

3250

3300

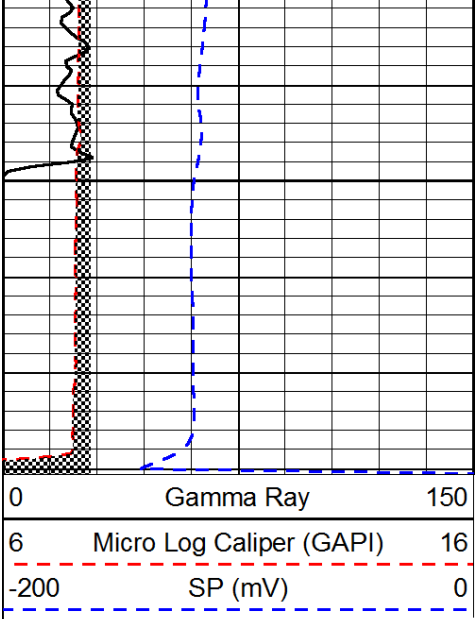


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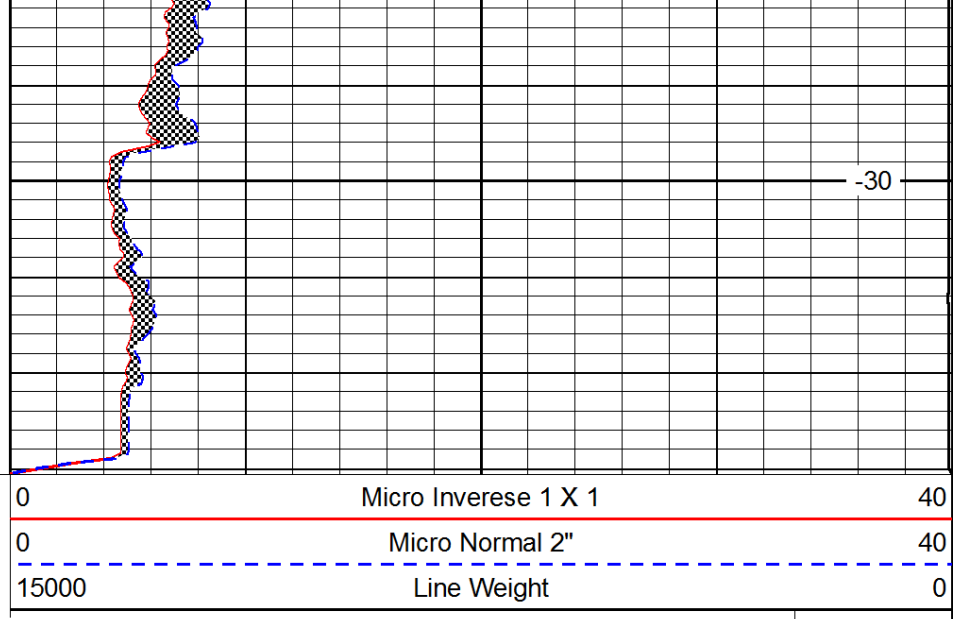
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-31

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3350



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LSPD