



# Microresistivity Log

Pioneer Energy Services

API No.

15-171-20,911-00-00

Company Landmark Resources, Inc.

Well Decker No. 1-3

Field Wildcat

County Scott State

Kansas

Location

SW NE NE SE  
2250' FSL & 520' FEL

Sec: 3 Twp: 17 S Rge: 34 W

Permanent Datum Ground Level Elevation 3117  
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum  
Drilling Measured From Kelly Bushing

Other Services  
CNL/CDL  
DIL  
Elevation  
K.B. 3128  
D.F.  
G.L. 3117

Date 10/18/2012

Run Number Two

Depth Driller 4860

Depth Logger 4858

Bottom Logged Interval 4857

Top Log Interval 3900

Casing Driller 8.625 @ 265

Casing Logger 263

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 5000

Density / Viscosity 9.3 58

pH / Fluid Loss 10.5 7.6

Source of Sample Flowline

Rm @ Meas. Temp .45 @ 68

Rmf @ Meas. Temp .34 @ 68

Rmc @ Meas. Temp .61 @ 68

Source of Rmf / Rmc Charts

Rm @ BHT .25 @ 125

Operating Rig Time 4 Hours

Max Rec. Temp. F 125

Equipment Number 15

Location Hays

Recorded By D. Kerr

Witnessed By Terry McLeod

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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.

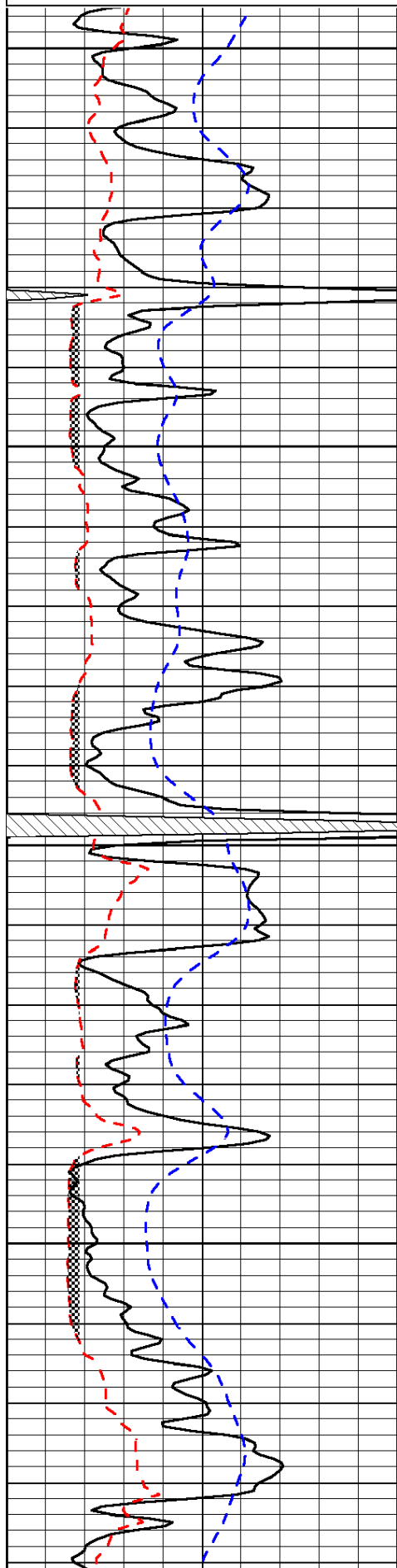
## Comments

Thank you for using Pioneer Energy Services  
[www.pioneerres.com](http://www.pioneerres.com)  
785 625 3858

Healy KS West to HWY 83, 4 West,  
1 North, 4 West, 1/2 South, West Into

Database File: c:\warrior\data\landmark\_decker #1-3\landmark\_decker\_3hd.db  
Dataset Pathname: DIL\ldmkstk  
Presentation Format: micro  
Dataset Creation: Thu Oct 18 03:40:09 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   |

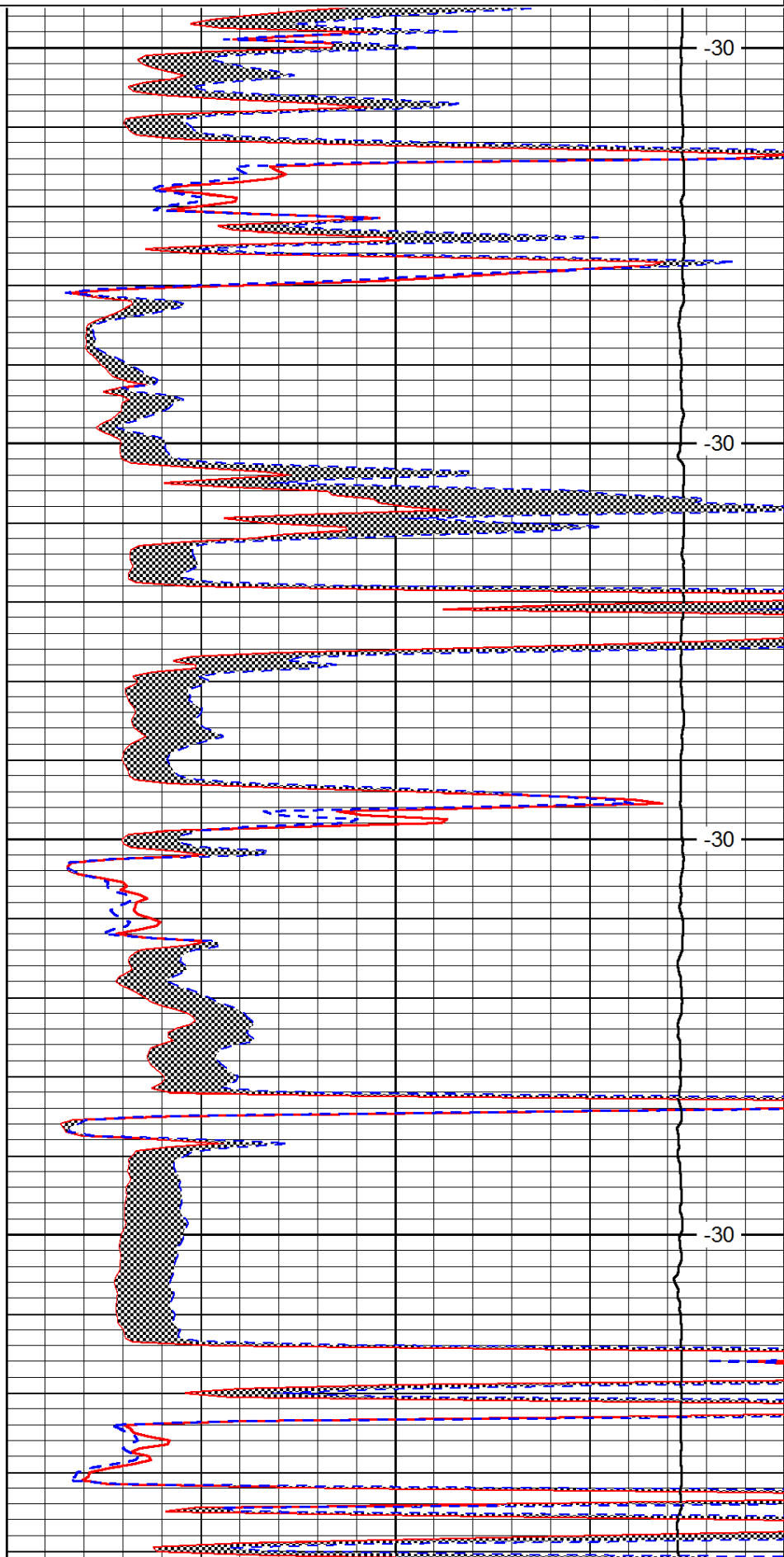


3900

3950

4000

4050



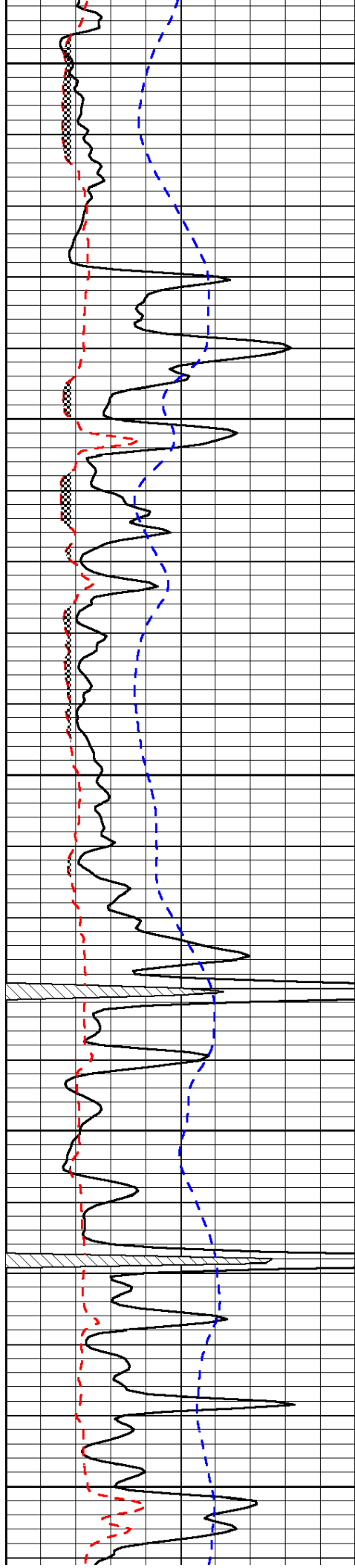
LSPD

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-30

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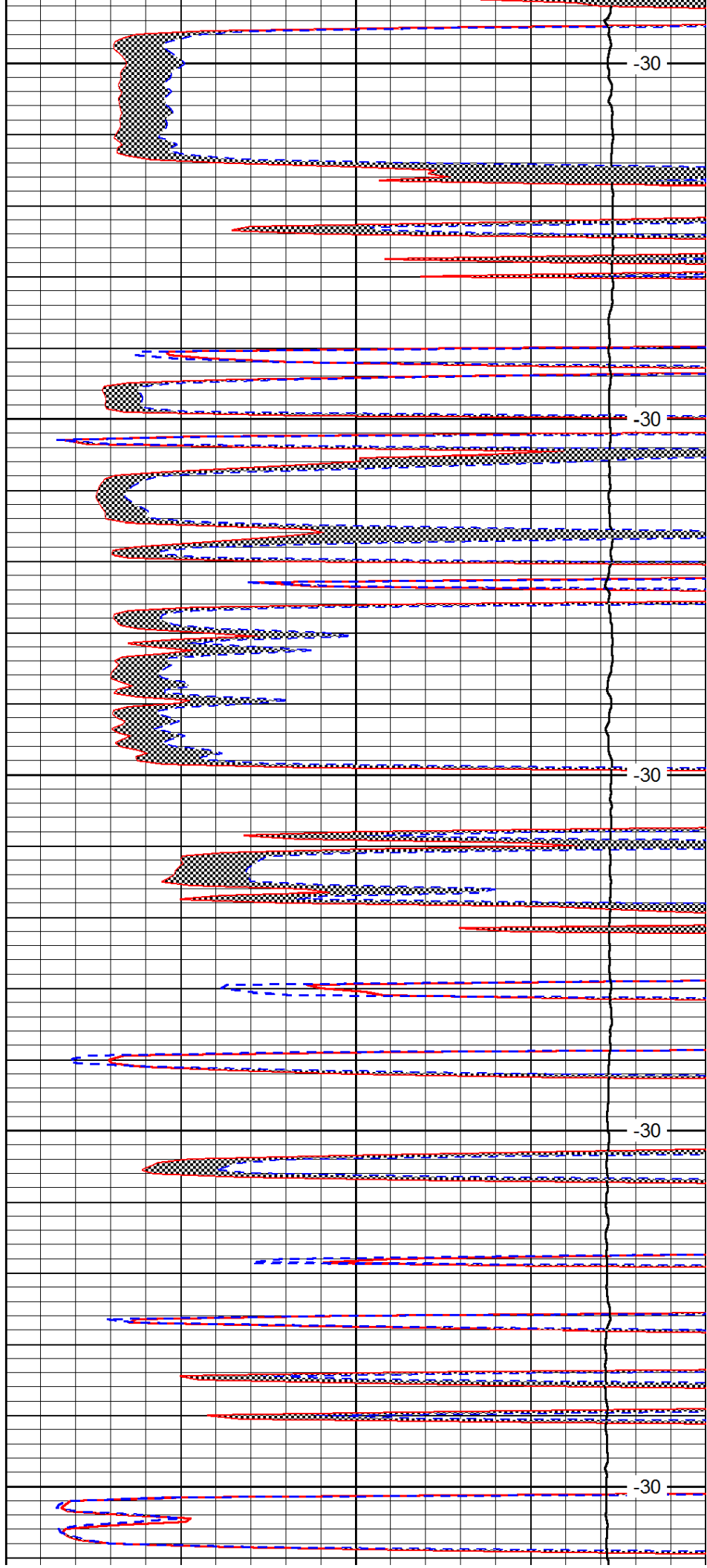
4100

4150

4200

4250

4300



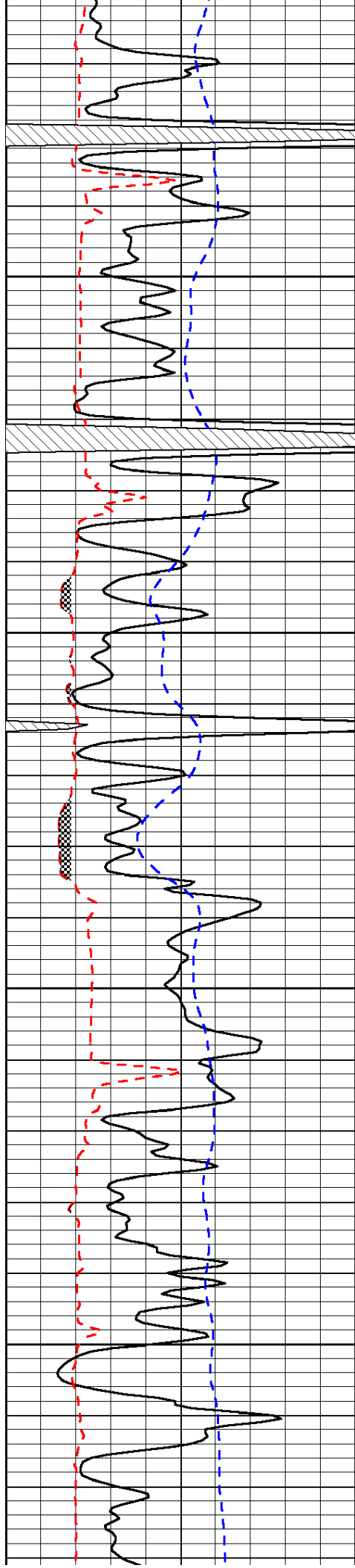
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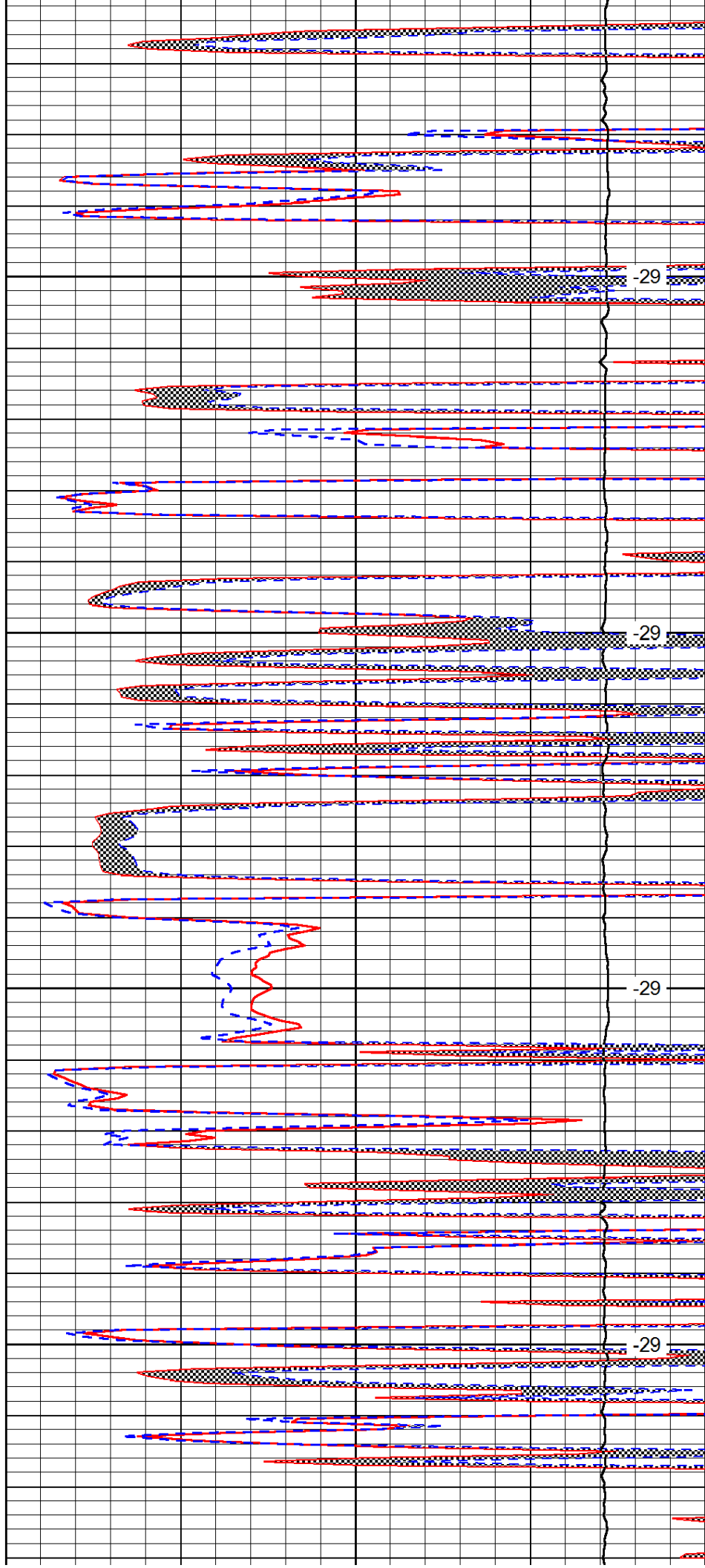


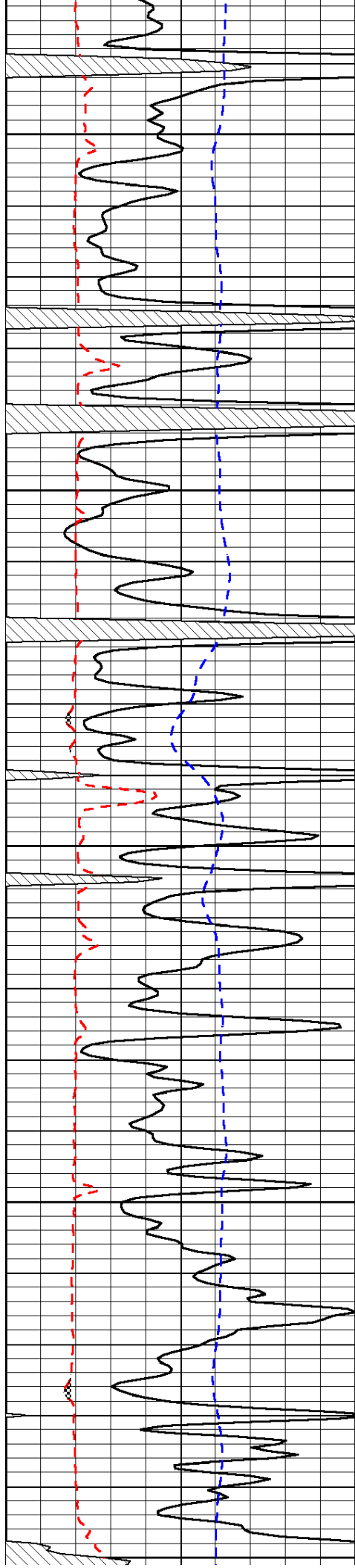
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4400

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4500





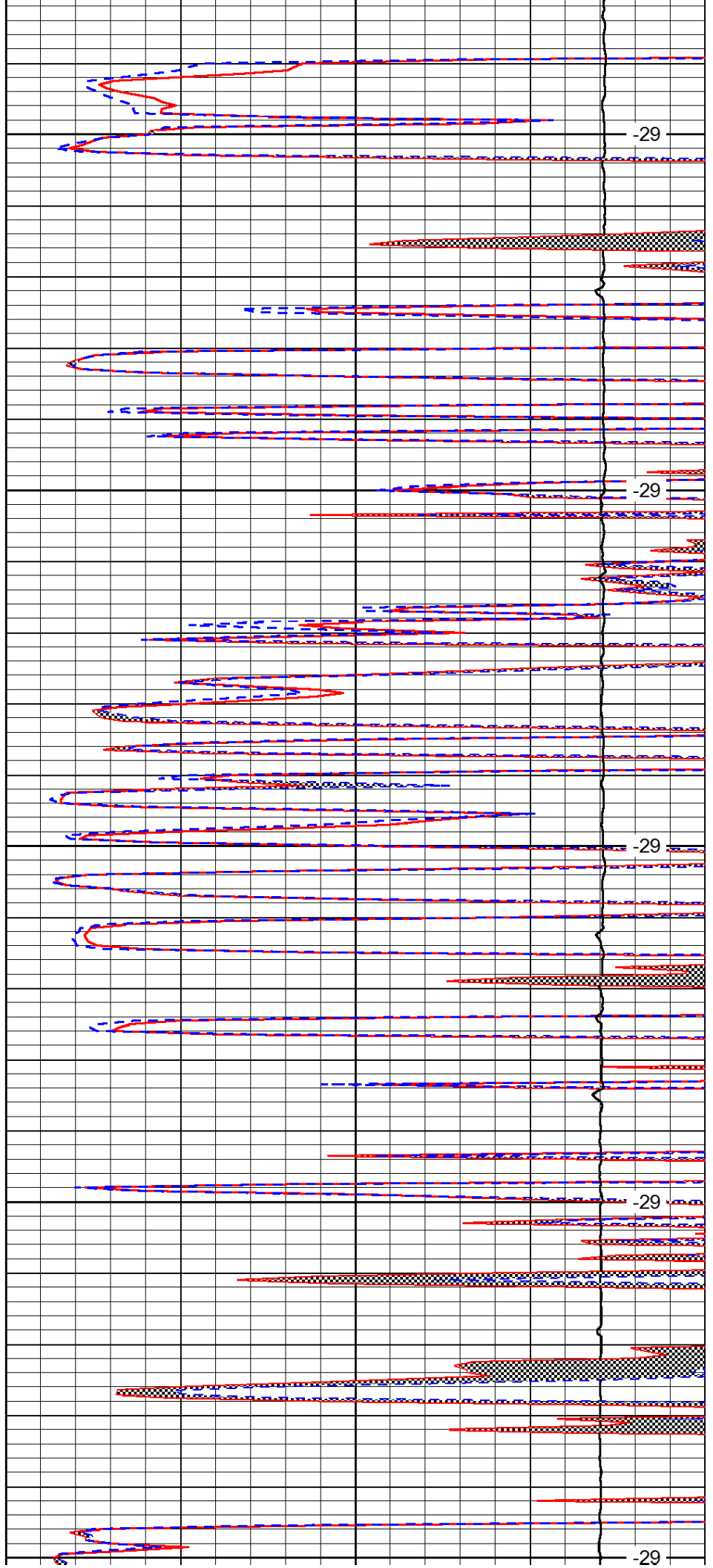
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4600

4650

4700

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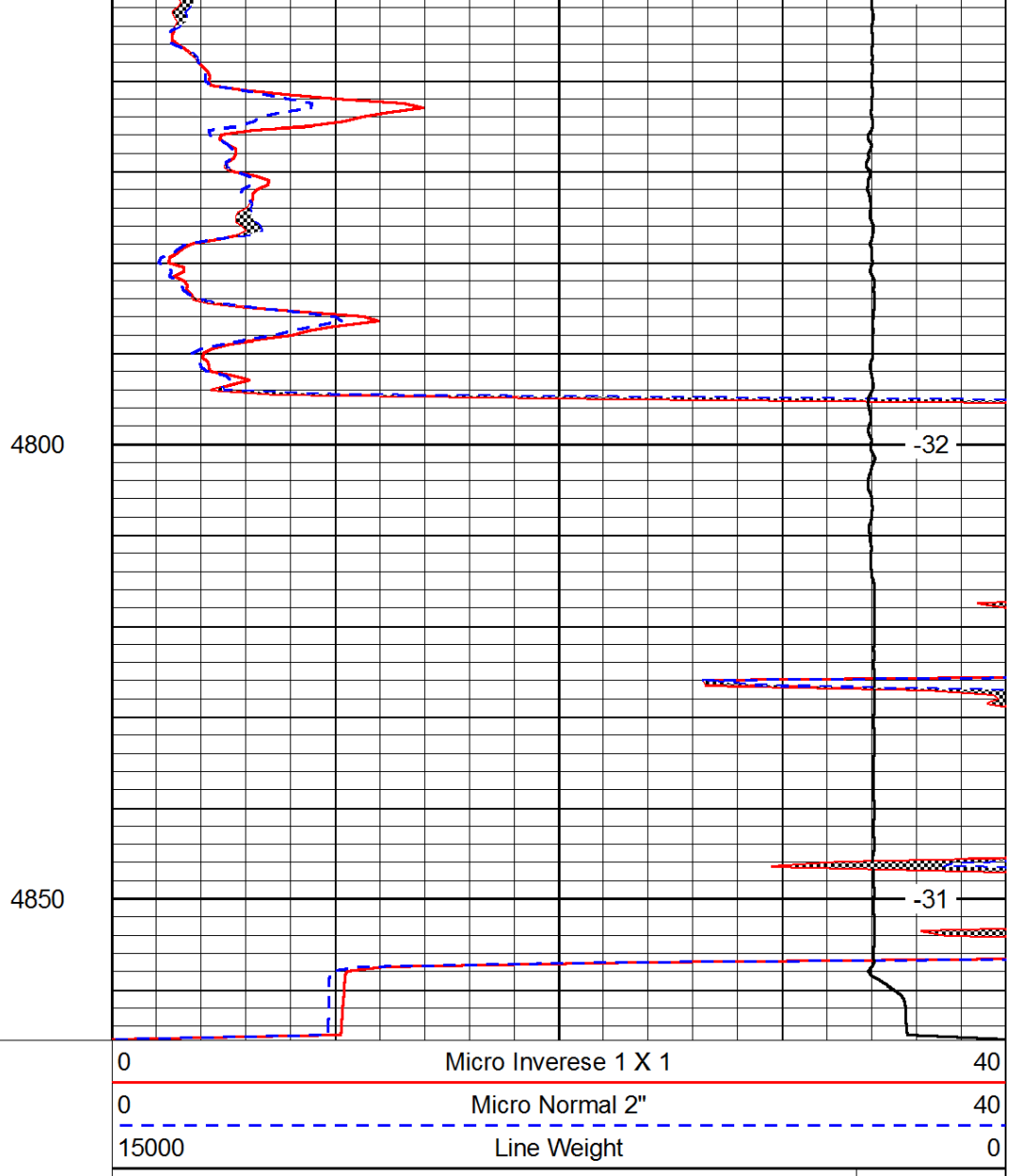
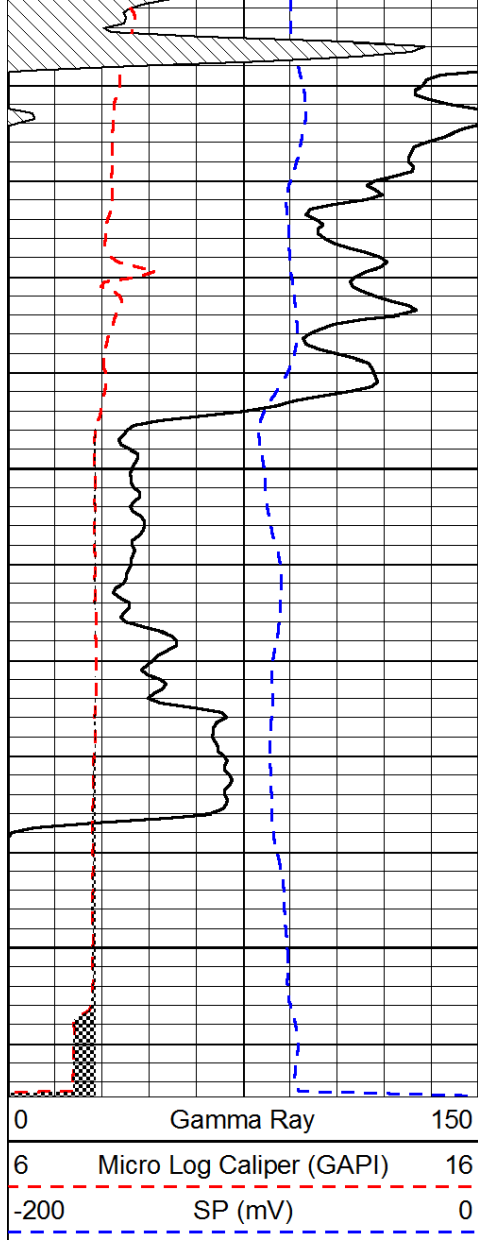
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LSPD