



# Microresistivity Log

Pioneer Energy Services

API No.

15-101-22,508-00-00

Company Larson Engineering, Inc.

Well Hineman Unit #1-28

Field Wildcat

County Lane State

Kansas

Location

1975' FNL & 93' FWL

Other Services  
CNL/CDL  
DIL

Sec: 28

Twp: 18S

Rge: 28W

Elevation

Permanent Datum

Ground Level

Elevation 2715

Log Measured From

Kelly Bushing 7 Ft. Above Perm. Datum

K.B. 2722  
D.F. 2715  
G.L. 2715

Drilling Measured From

Kelly Bushing

Date

5/4/2014

Run Number

Two

Depth Driller

4611

Depth Logger

4608

Bottom Logged Interval

4607

Top Log Interval

3600

Casing Driller

8.625 @ 264

Casing Logger

264

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

2,500

Density / Viscosity

9.1 67

pH / Fluid Loss

11.0 7.2

Source of Sample

Flowline

Rm @ Meas. Temp

.55 @ 61

Rmf @ Meas. Temp

.41 @ 61

Rmc @ Meas. Temp

.74 @ 61

Source of Rmf / Rmc

Charts

Rm @ BHT

.27 @ 122

Operating Rig Time

4 Hours

Max Rec. Temp. F

122

Equipment Number

17

Location

Hays

Recorded By

C. Desaire

Witnessed By

Vern Schrag

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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.

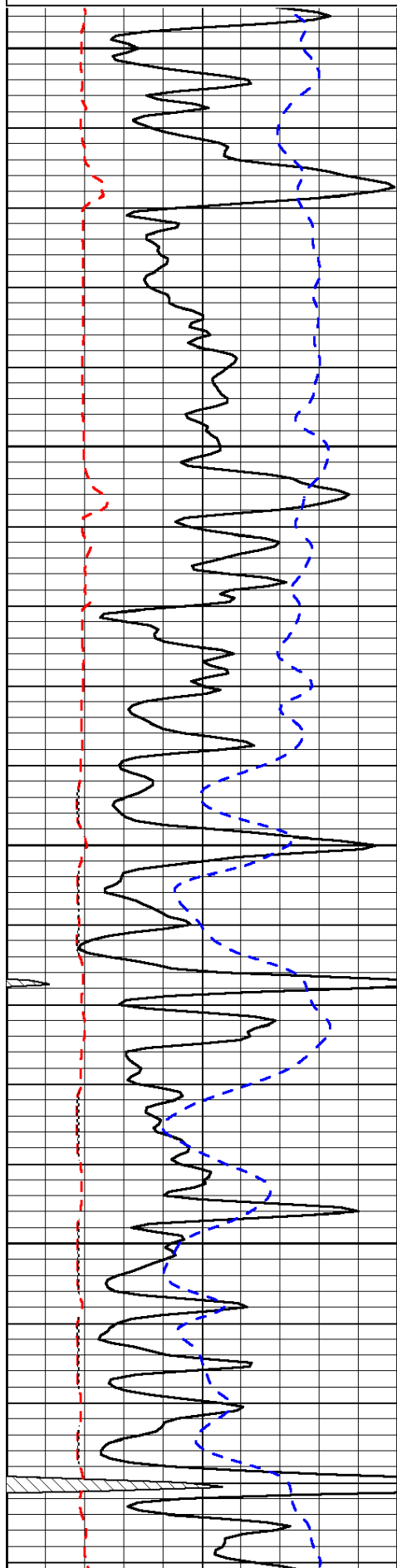
## Comments

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

Dighton KS,  
2 E to Mustang Rd, 1 1/2 S, E Into

Database File: c:\warrior\data\larson\_hineman unit #1-28\larshd.db  
Dataset Pathname: dil\lrsnstk  
Presentation Format: micro  
Dataset Creation: Sun May 04 02:24:51 2014  
Charted by: Depth in Feet scaled 1:240

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

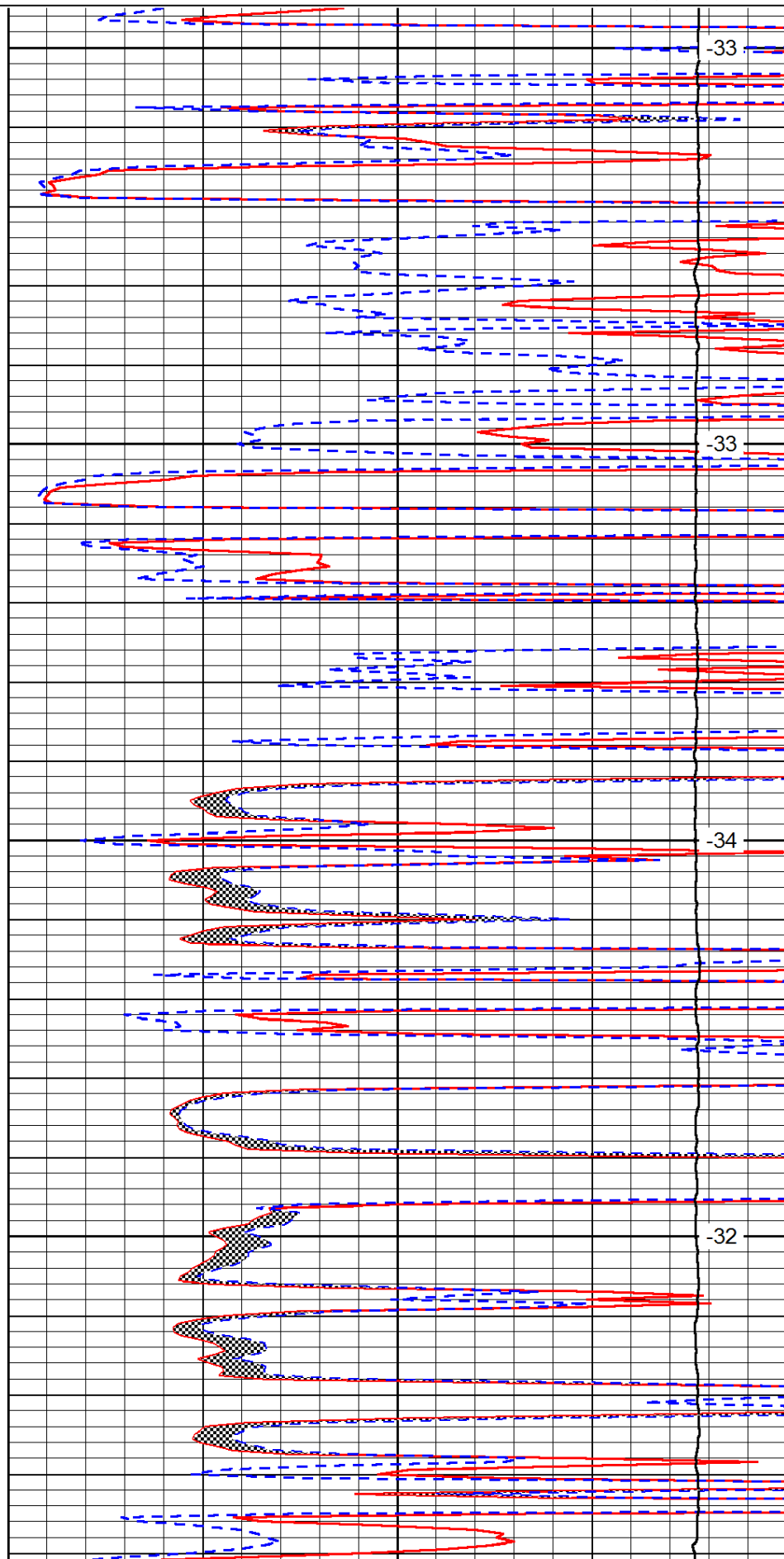


3600

3650

3700

3750



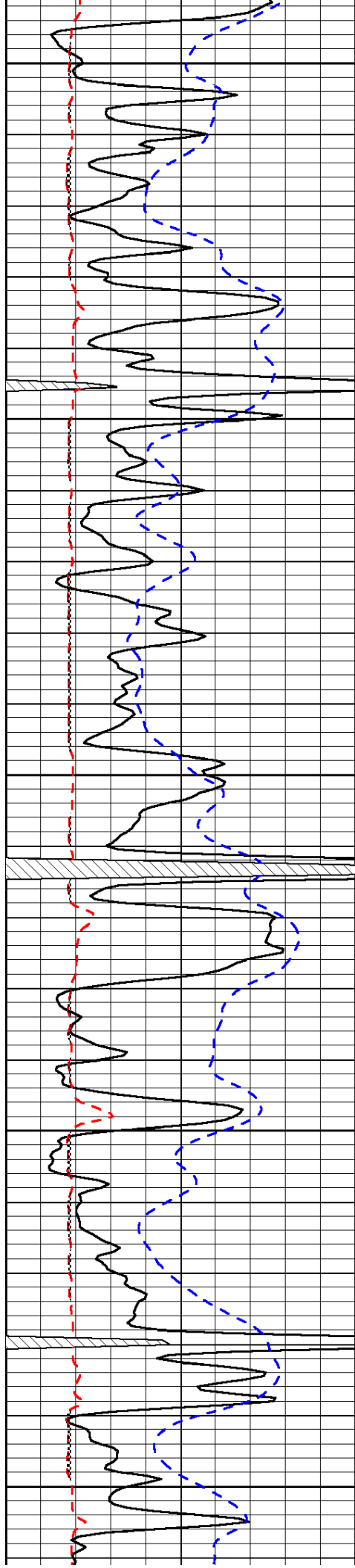
-33

-33

-34

-32

LSPD



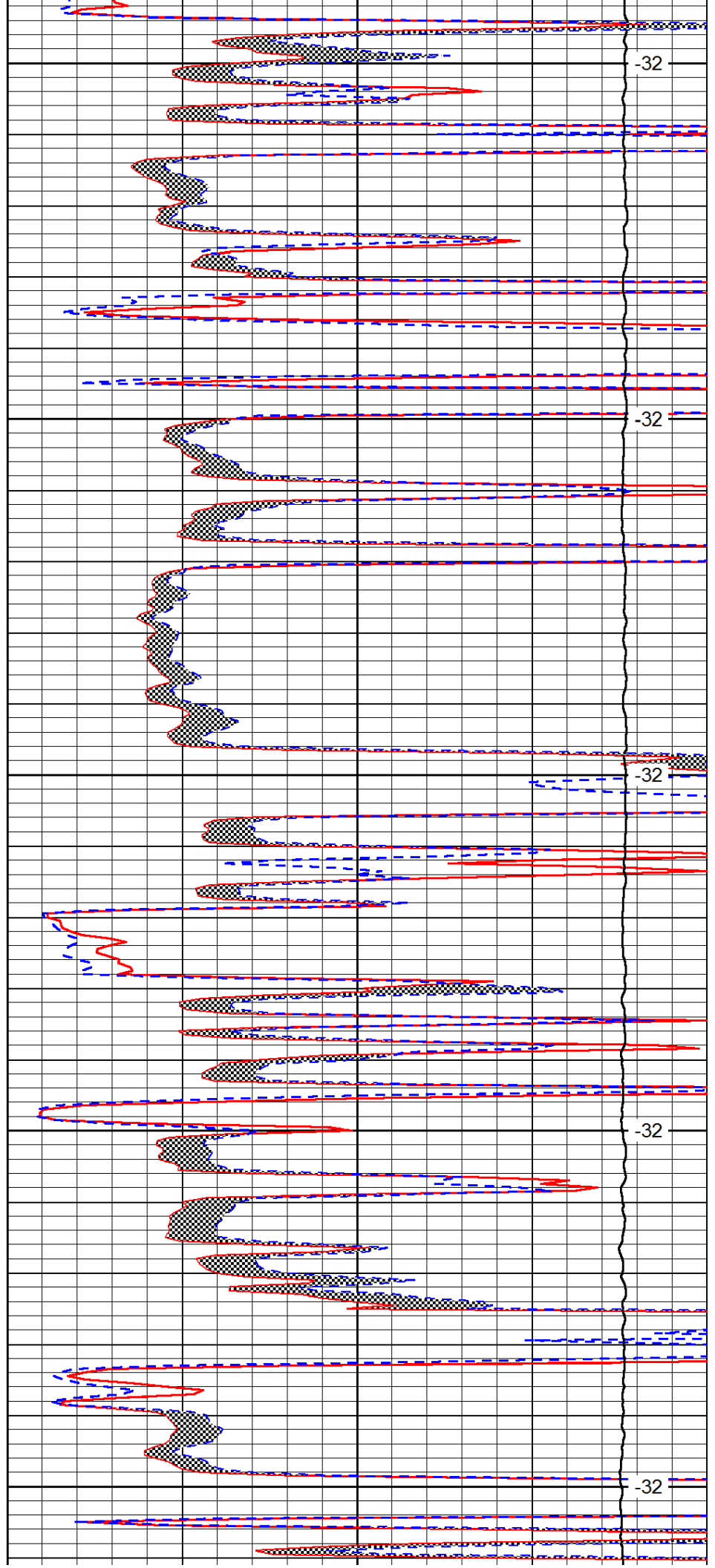
3800

3850

3900

3950

4000



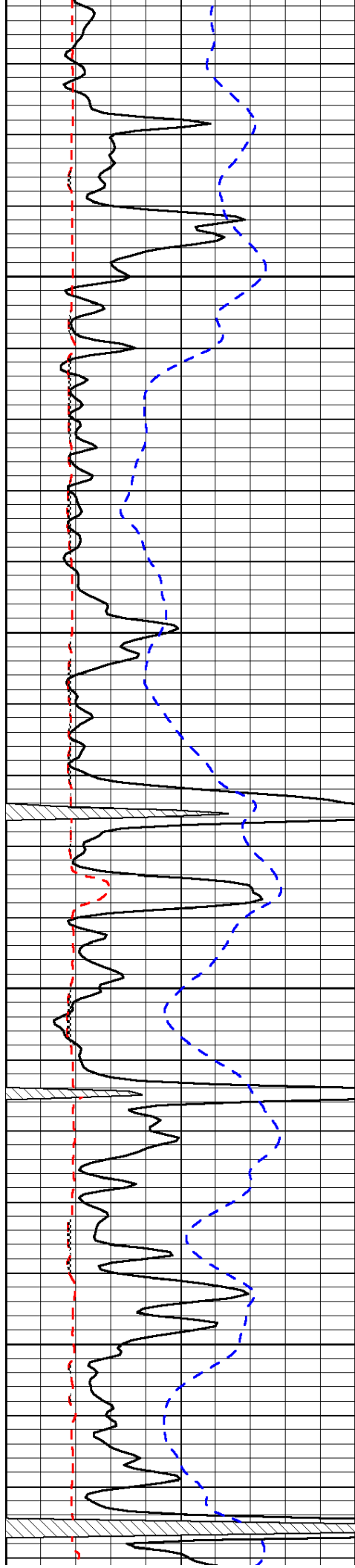
-32

-32

-32

-32

-32

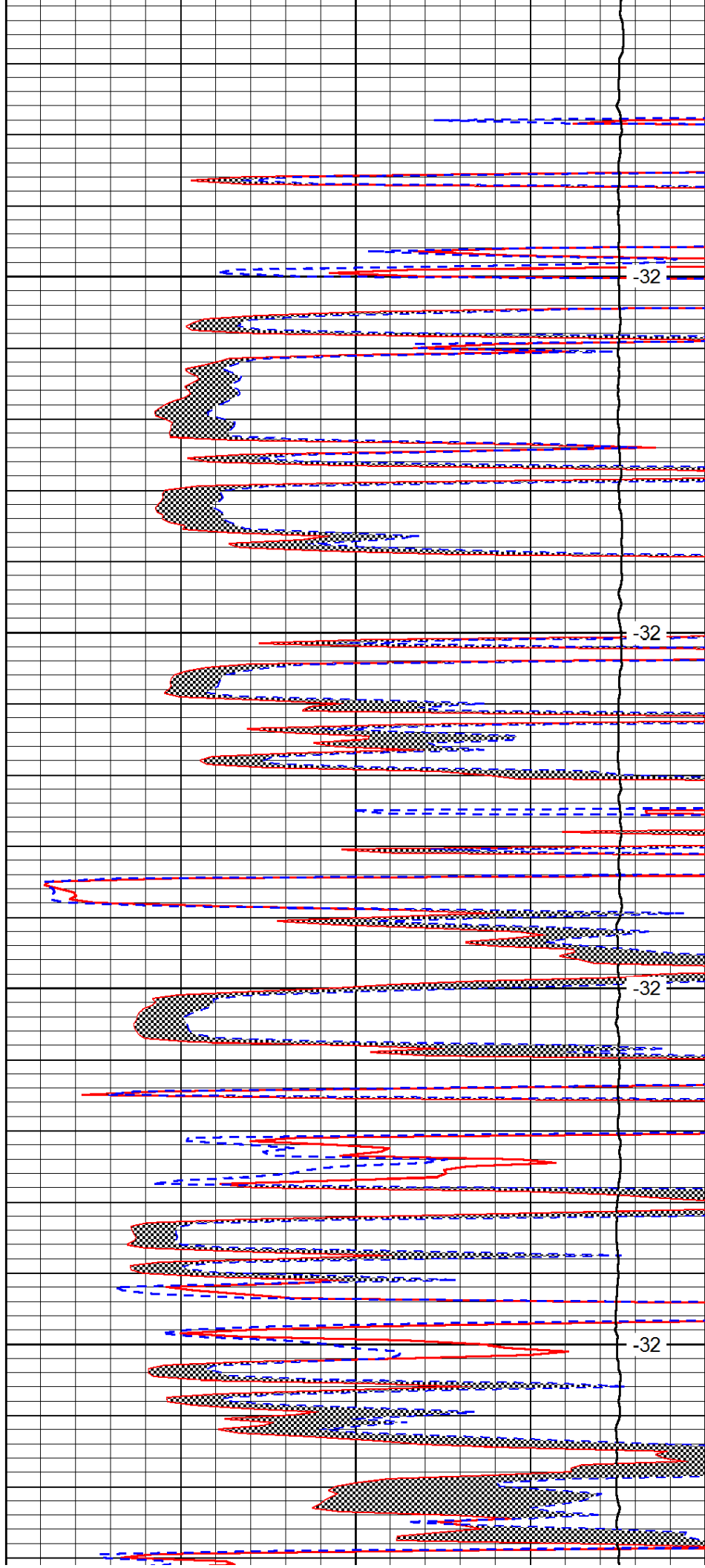


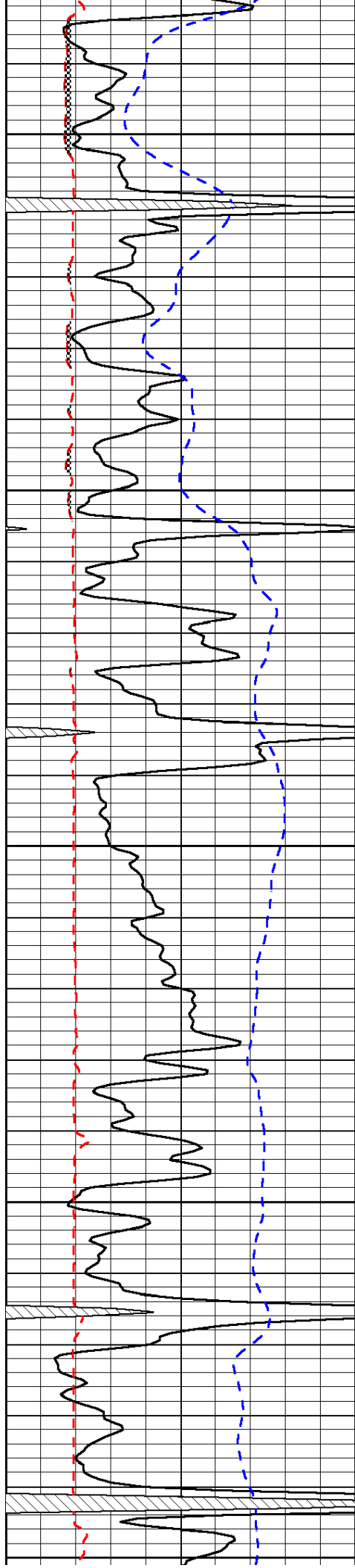
4050

4100

4150

4200





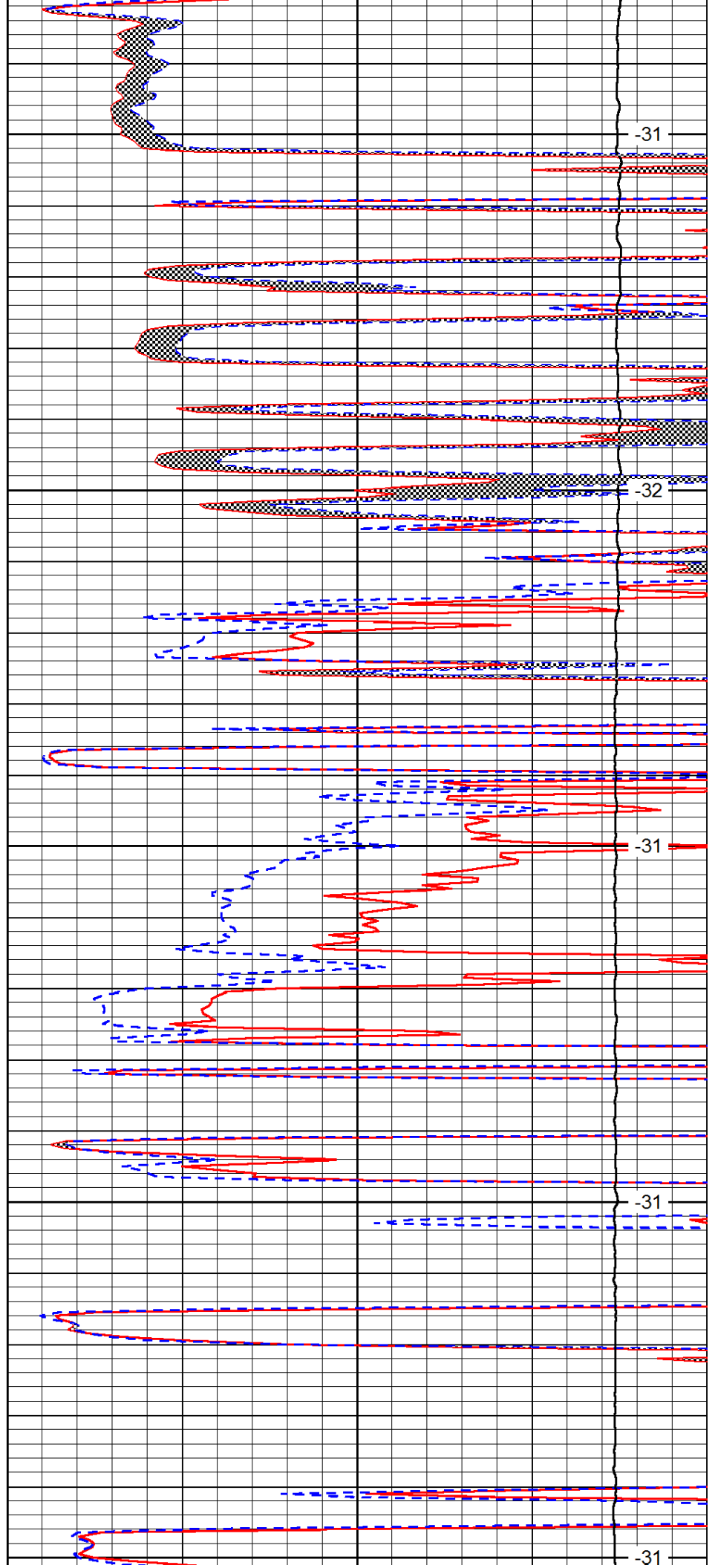
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4300

4350

4400

4450



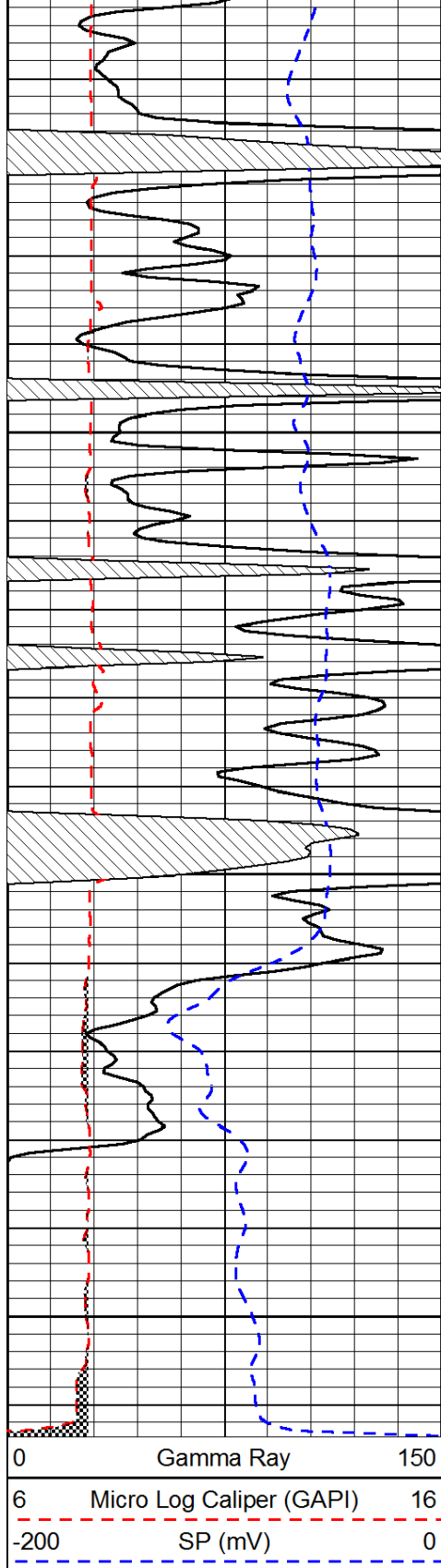
-31

-32

-31

-31

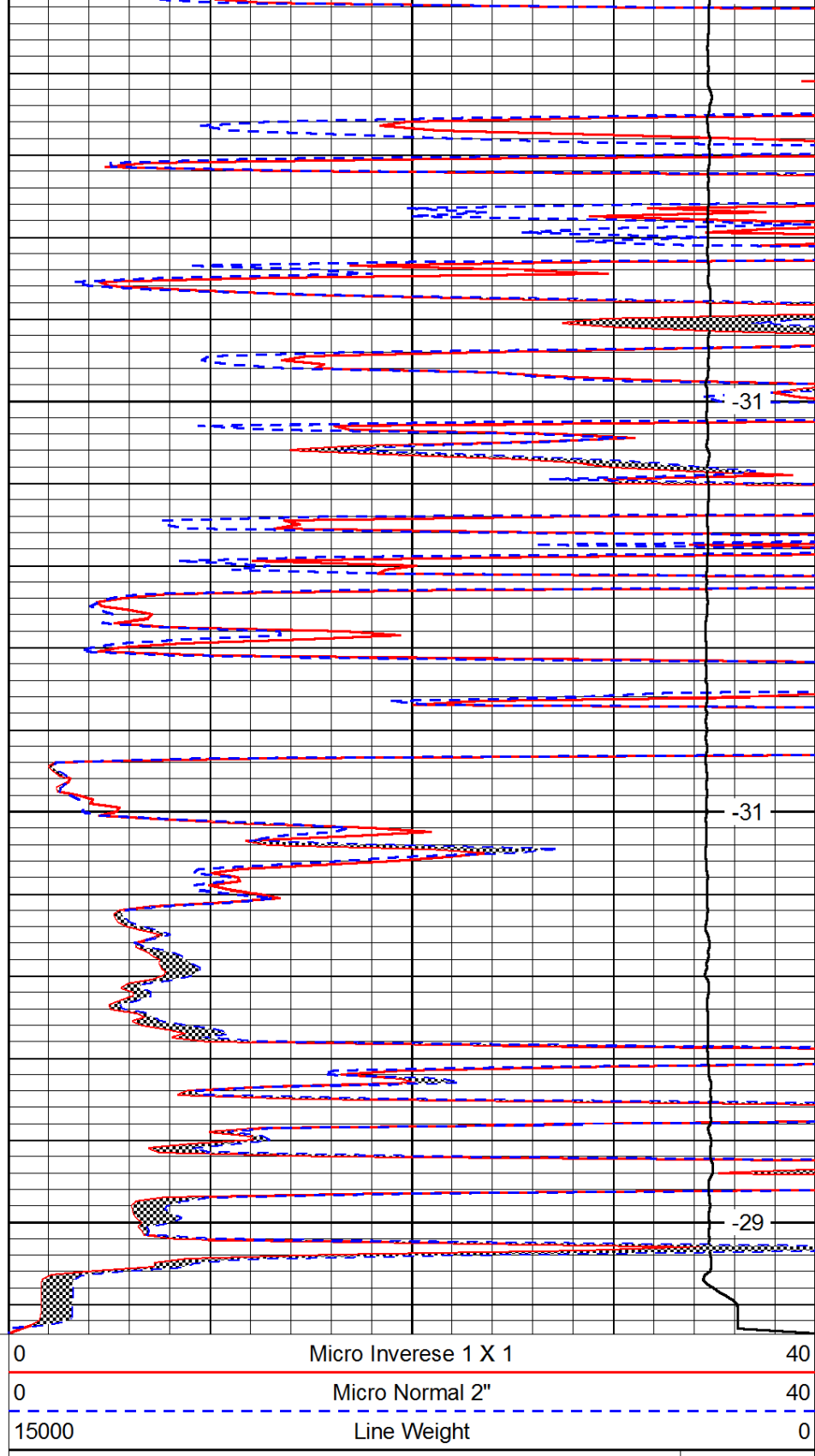
-31



4500

4550

4600



LSPD