



# Microresistivity Log

Pioneer Energy Services

API No.

15-159-22,729-00-00

Company **Carrie Exploration & Development**

Well **Loesch #C-1**

Field

County **Rice**

State

**Kansas**

Location

**2,008' FSL & 733' FEL**

Other Services  
CNL/CDL  
DIL

Sec: **22**

Twp: **20S**

Rge: **10W**

Elevation

K.B. 1826  
D.F. 1818  
G.L. 1818

Permanent Datum  
Log Measured From  
Drilling Measured From

Ground Level  
Kelly Bushing  
From Kelly Bushing

Elevation 1818  
8 Ft. Above Perm. Datum

Date

3/6/2013

Run Number

Two

Depth Driller

3475

Depth Logger

3477

Bottom Logged Interval

3476

Top Log Interval

2200

Casing Driller

8.625 @ 261

Casing Logger

261

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

N/A

Density / Viscosity

9.0 48

pH / Fluid Loss

N/A N/A

Source of Sample

Flowline

Rm @ Meas. Temp

.40 @ 74

Rmf @ Meas. Temp

.30 @ 74

Rmc @ Meas. Temp

.54 @ 74

Source of Rmf / Rmc

Charts

Rm @ BHT

.27 @ 111

Operating Rig Time

4 Hours

Max Rec. Temp. F

111

Equipment Number

108

Location

Hays

Recorded By

J. Long

Witnessed By

Herb Deines

Ron Herold

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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.

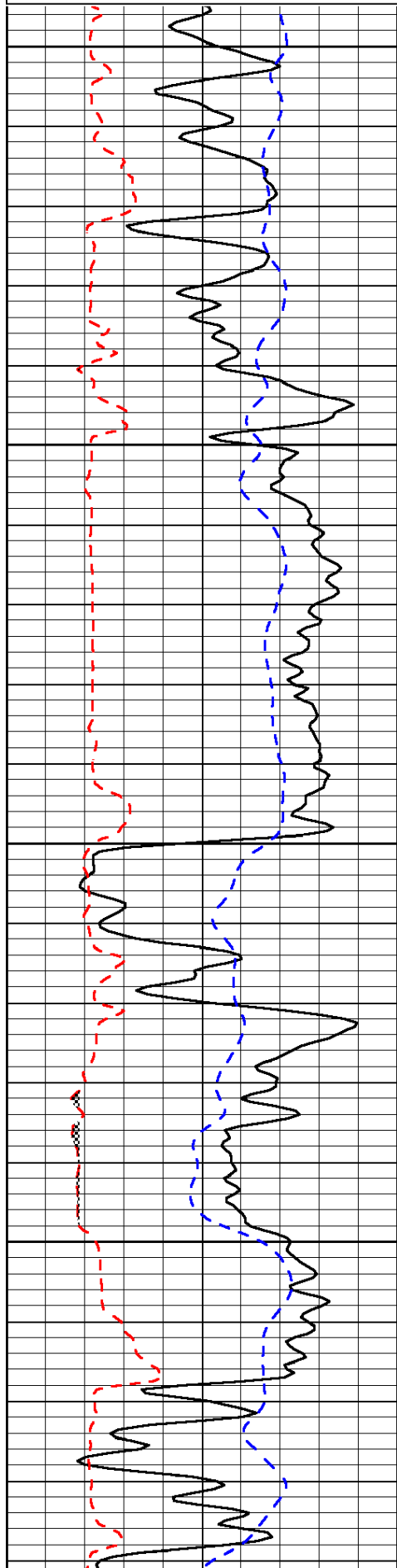
## Comments

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

Ellinwood, East to County Line, 3 East to 4th Road, 3 South to P Road, 1 East, 3/4 South,  
West Into

Database File: c:\warrior\data\carrie exp\_loesch #c-1\carrie\_loesch\_c-1hd.db  
Dataset Pathname: dil/carrstck  
Presentation Format: micro  
Dataset Creation: Wed Mar 06 13:02:32 2013  
Charted by: Depth in Feet scaled 1:240

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



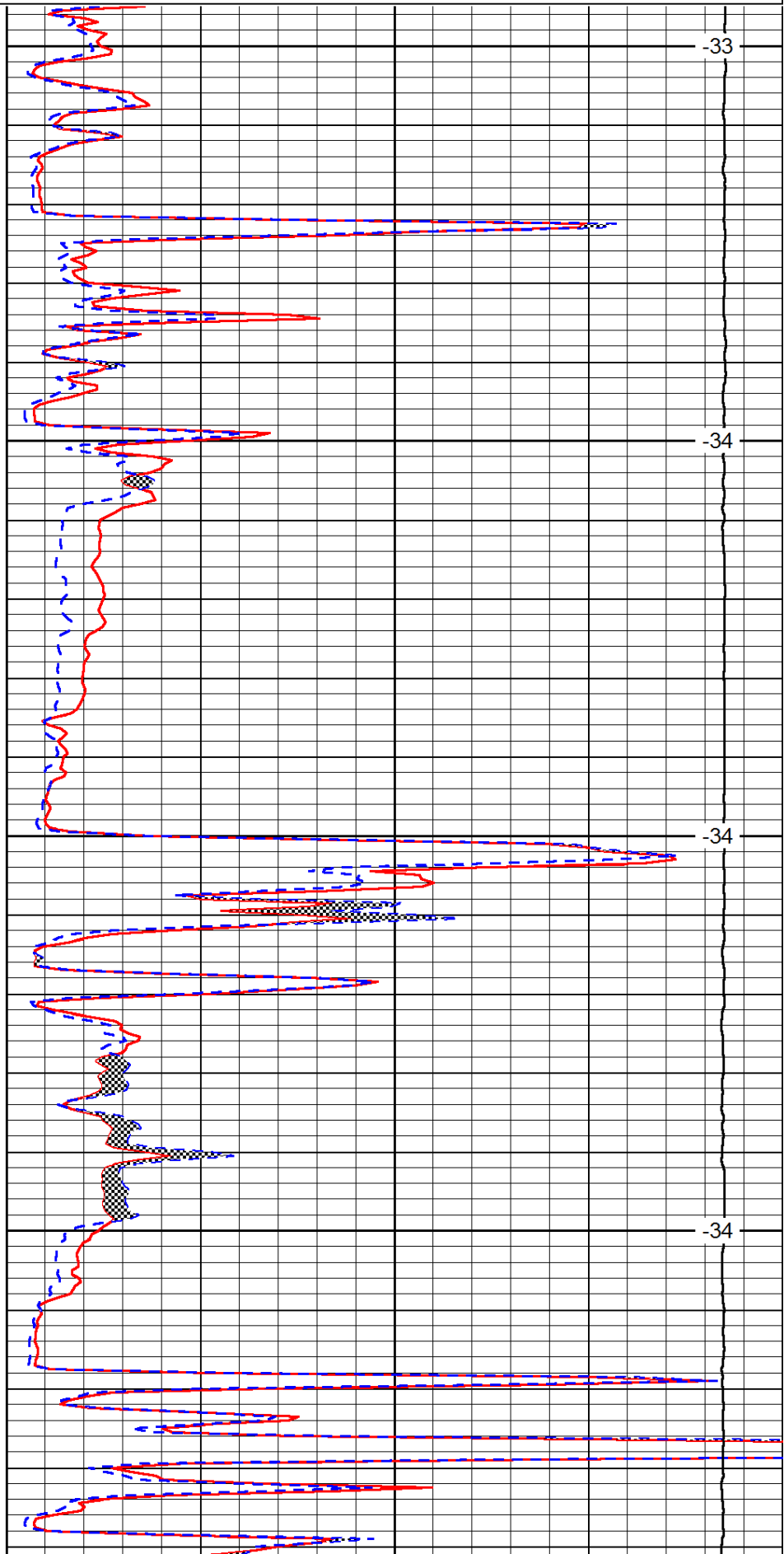
2200

2250

2300

2350

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



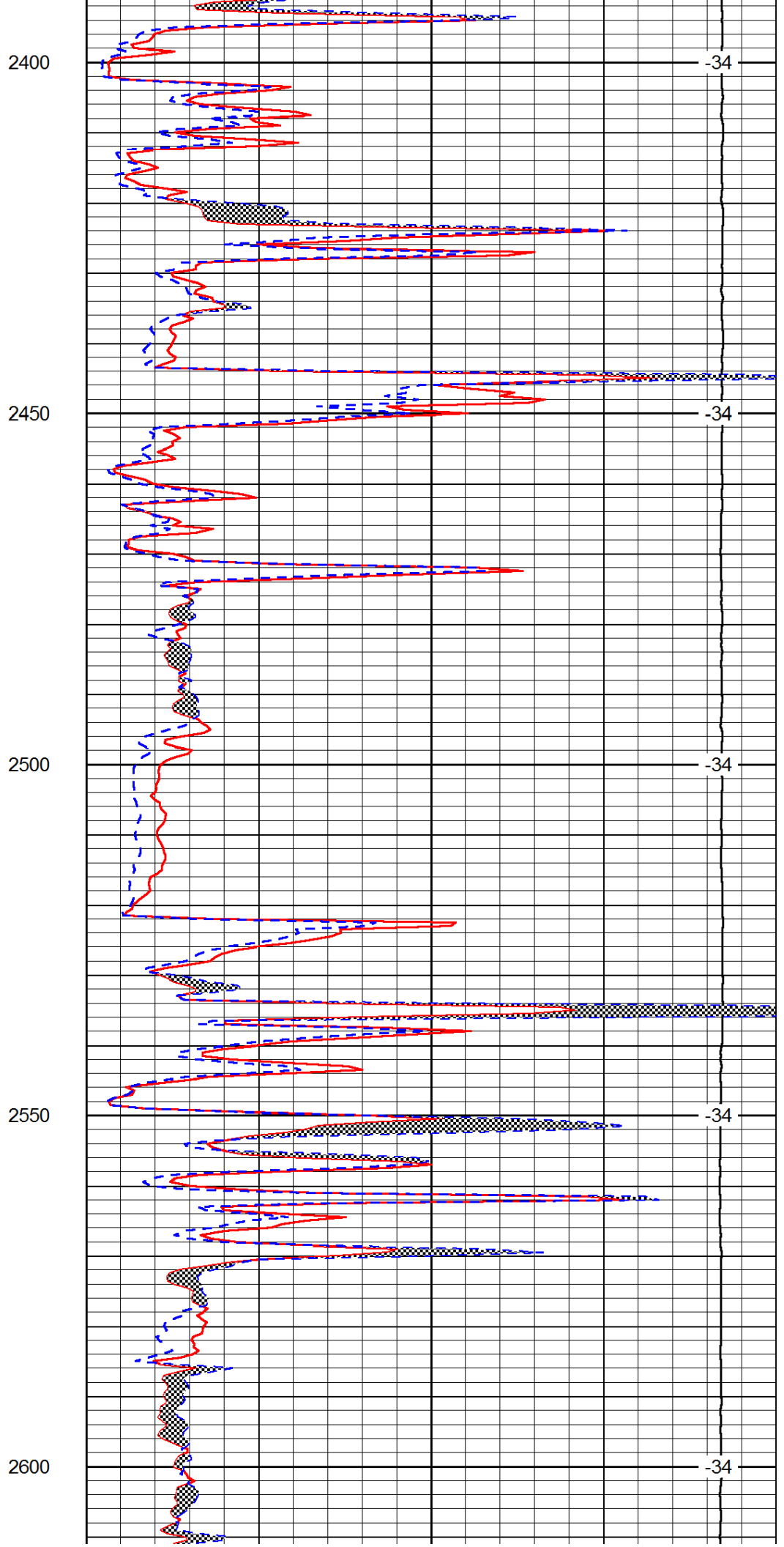
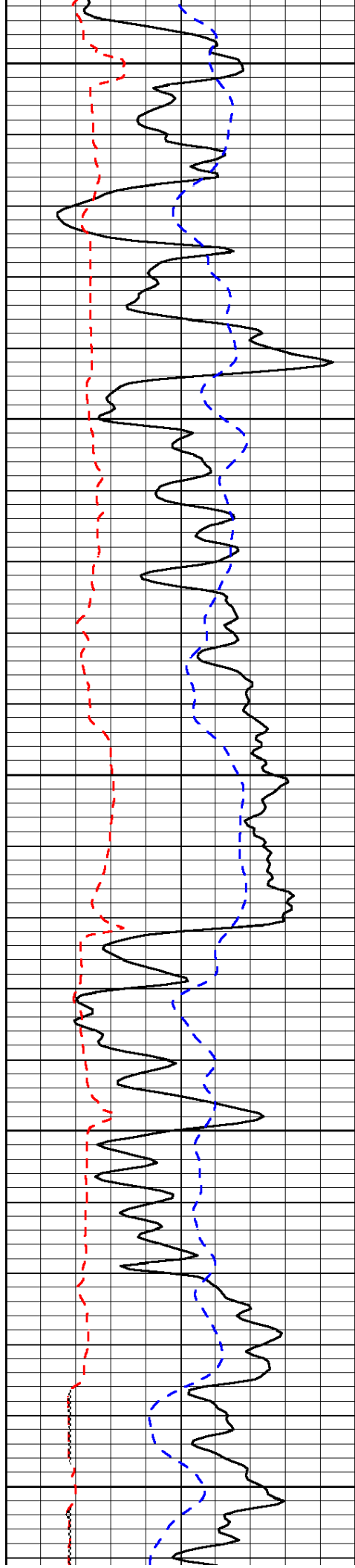
-33

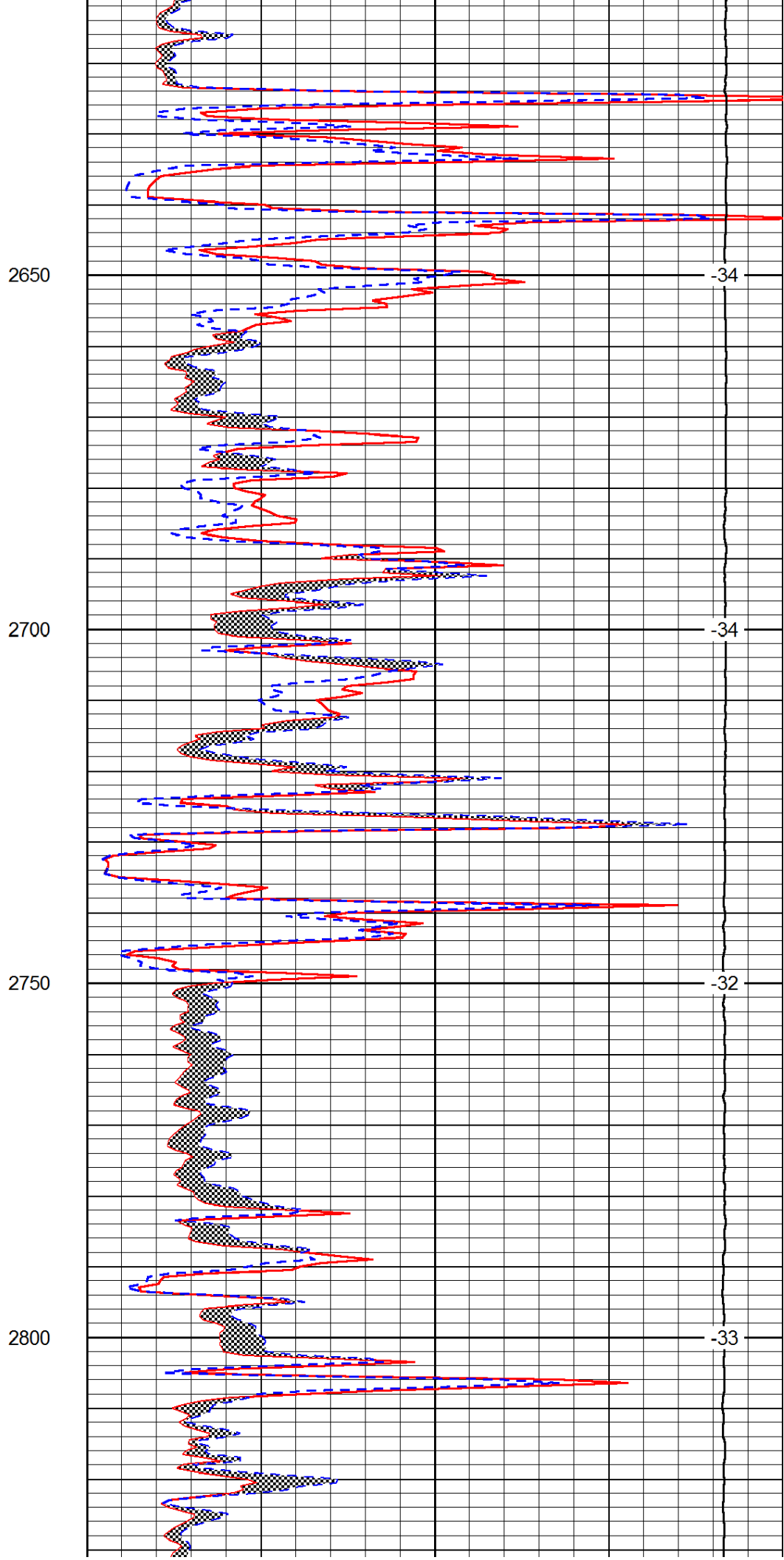
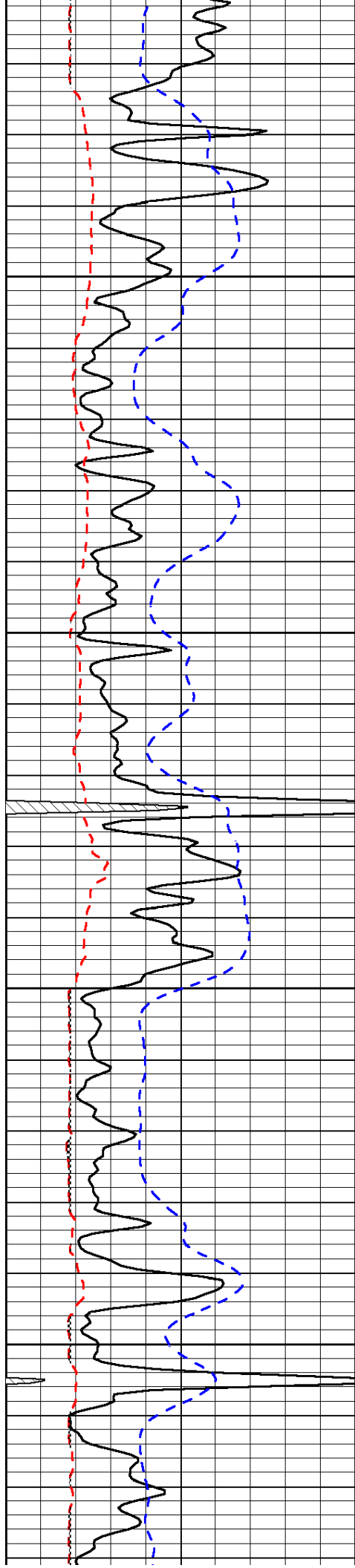
-34

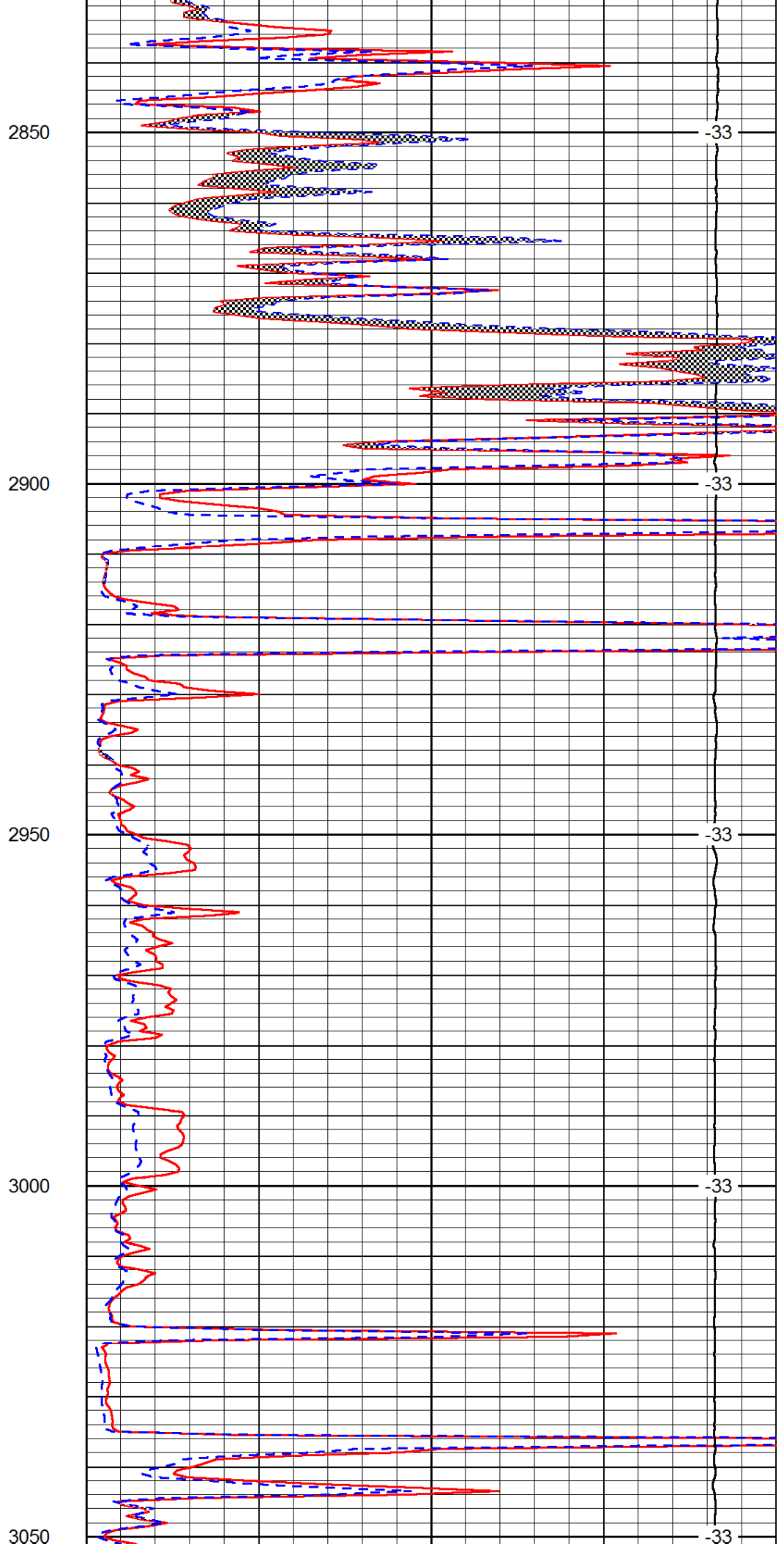
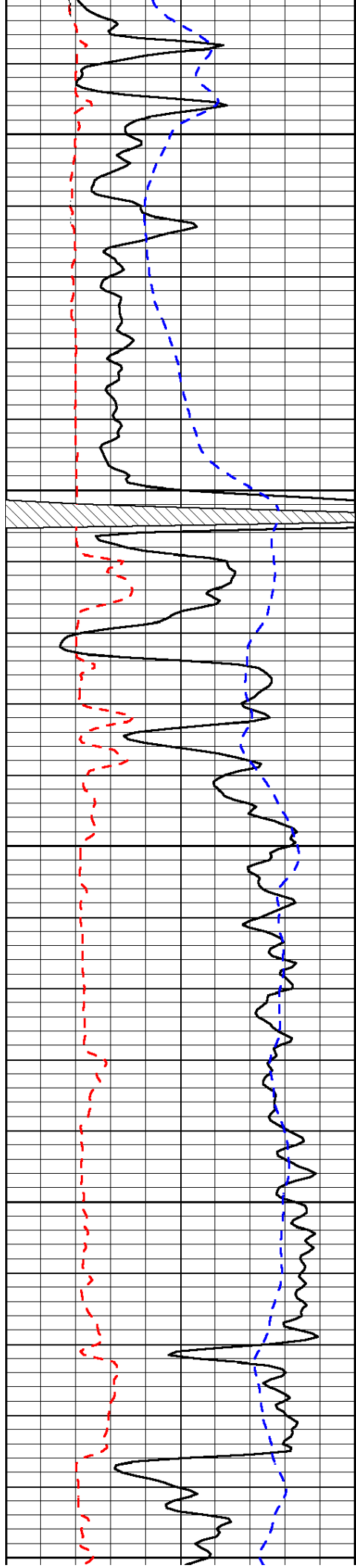
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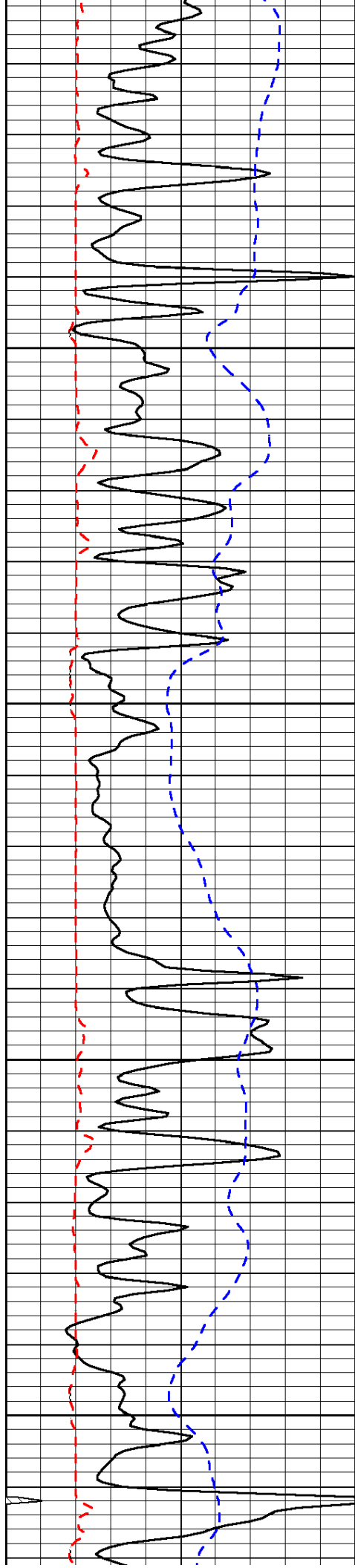
-34

LSPD







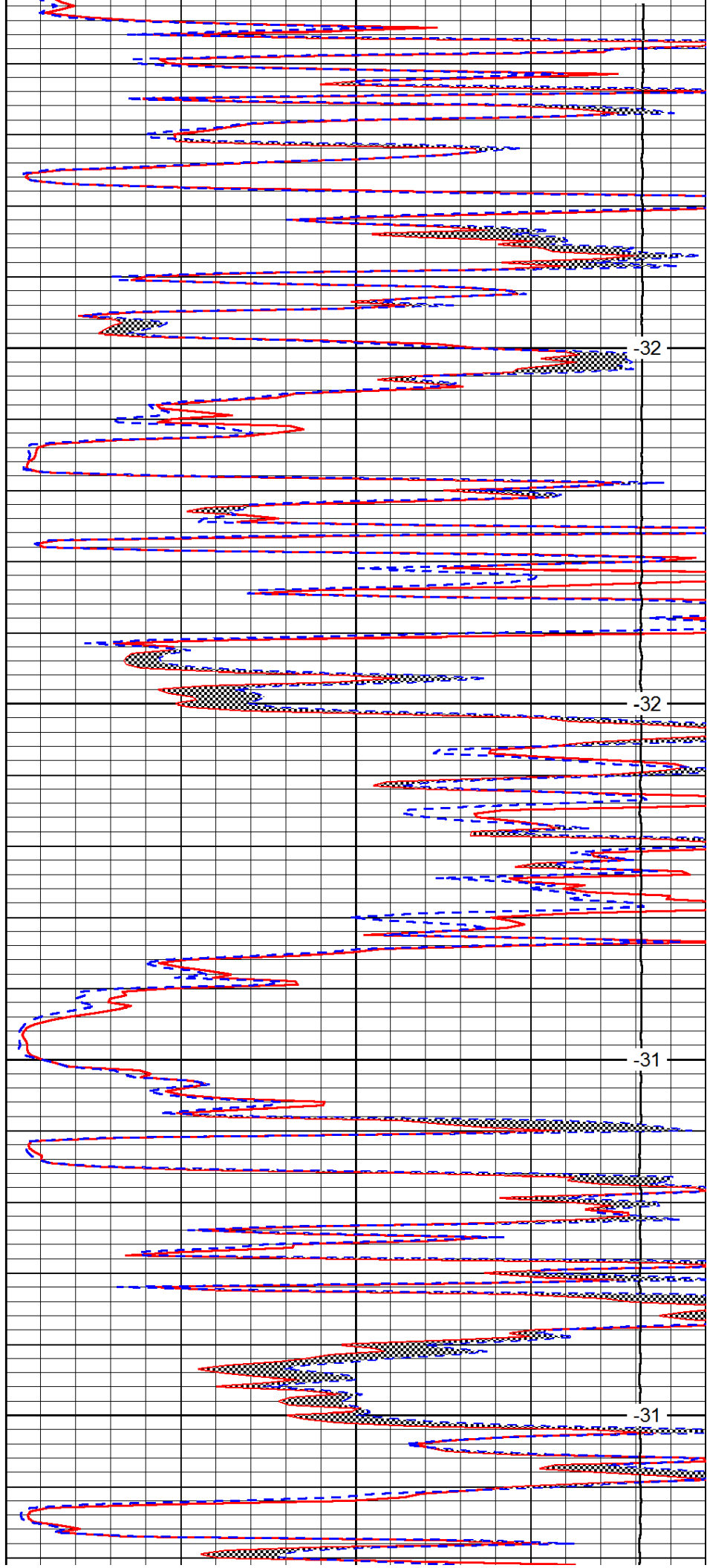


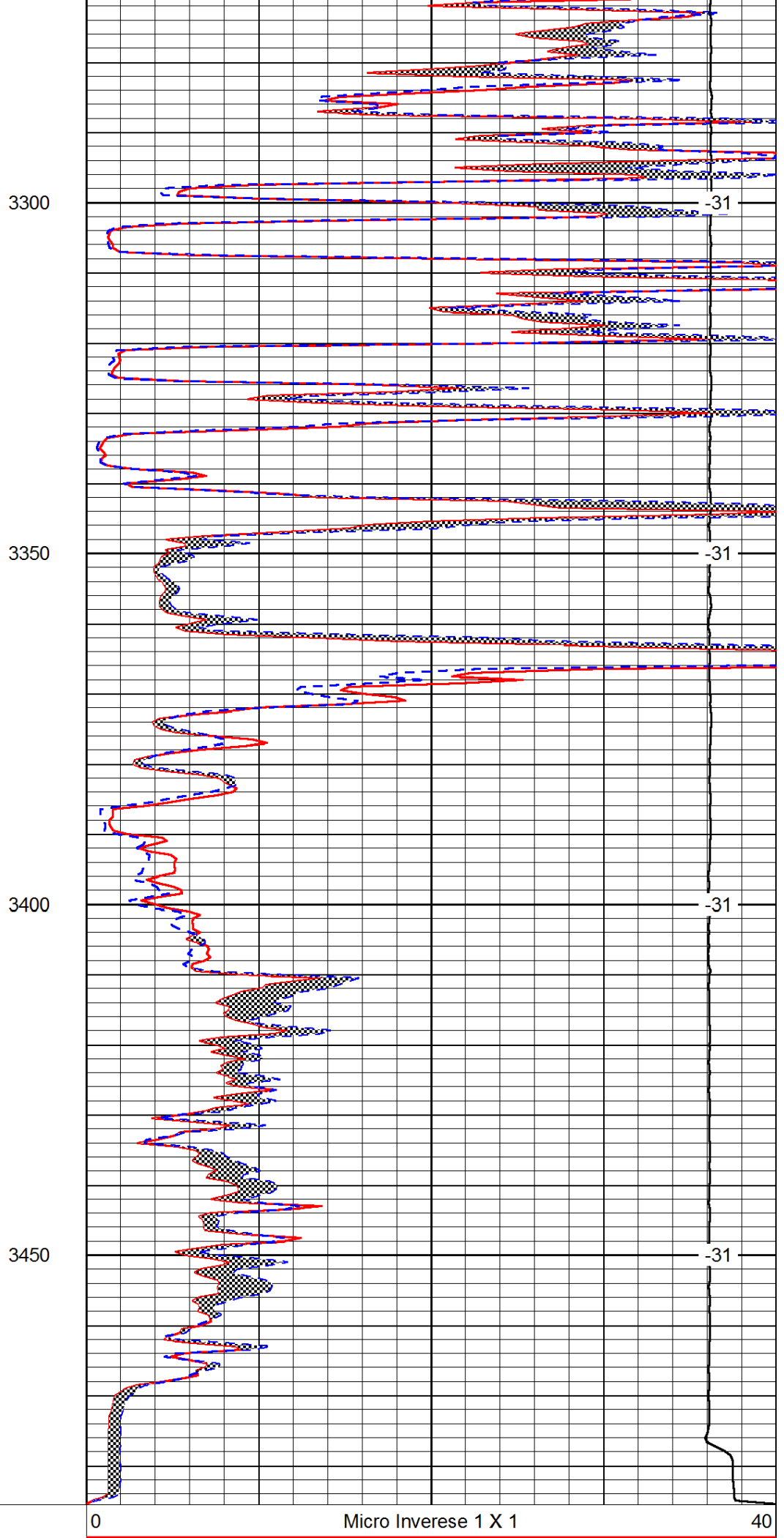
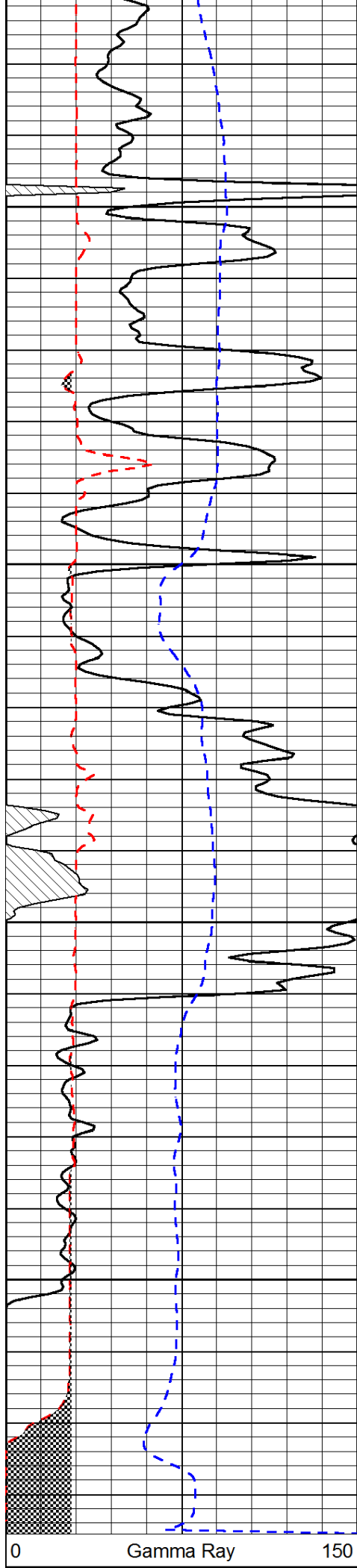
3100

3150

3200

3250





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

|       |                 |      |
|-------|-----------------|------|
| 0     | Micro Normal 2" | 40   |
| 15000 | Line Weight     | 0    |
|       |                 | LSPD |