



Microresistivity Log

Pioneer Energy Services

API No.

15-163-24147-00-00

Company The Bill Bowman Oil Company

Well Pywell #5

Field Marcotte

County Rocks

State

Kansas

Location

615' FSL & 330' FEL

Sec: 36

Twp: 9S

Rge: 20W

Permanent Datum Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation 2234

5 Ft. Above Perm. Datum

Elevation

K.B. 2239
D.F. 2234
G.L. 2234

Other Services
CNL/CDL
DIL

Date

9/19/2013

Run Number

Two

Depth Driller

3830

Depth Logger

3835

Bottom Logged Interval

3834

Top Log Interval

3100

Casing Driller

8.625 @ 222

Casing Logger

220

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

8000

Density / Viscosity

9.0 50

pH / Fluid Loss

7.5 9.6

Source of Sample

Flowline

Rm @ Meas. Temp

0.75 @ 74

Rmf @ Meas. Temp

0.56 @ 74

Rmc @ Meas. Temp

1.01 @ 74

Source of Rmf / Rmc

Charts

Rm @ BHT

0.48 @ 116

Operating Rig Time

4 Hours

Max Rec. Temp. F

116

Equipment Number

91

Location

Hays

Recorded By

D. Schmidt

Witnessed By

Roger Moses

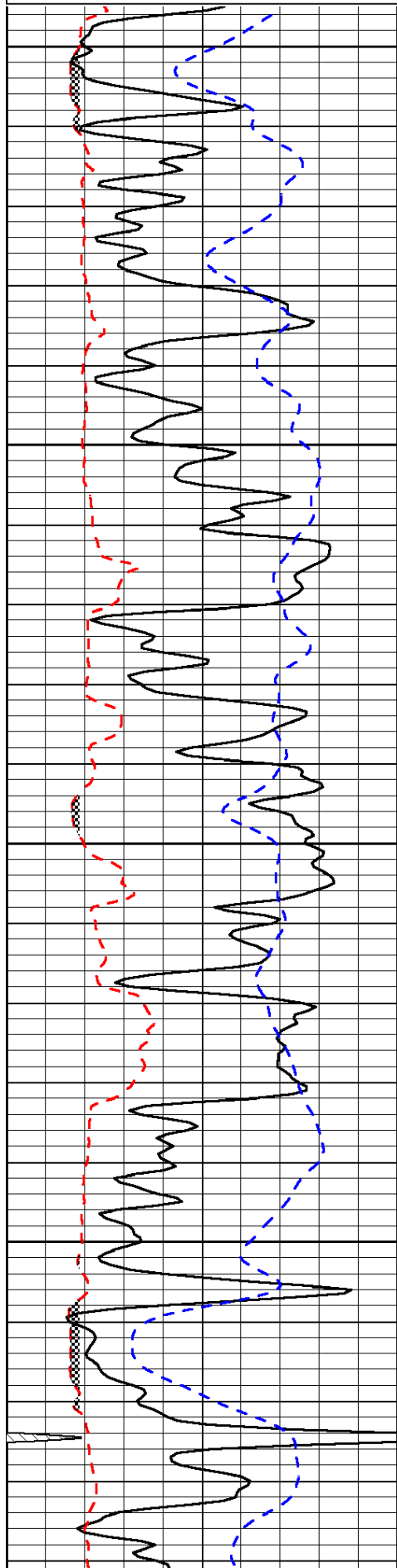
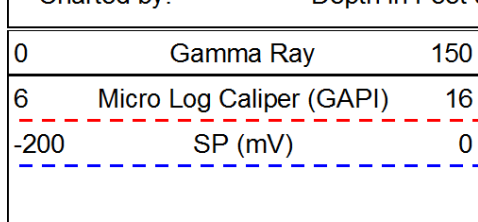
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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.

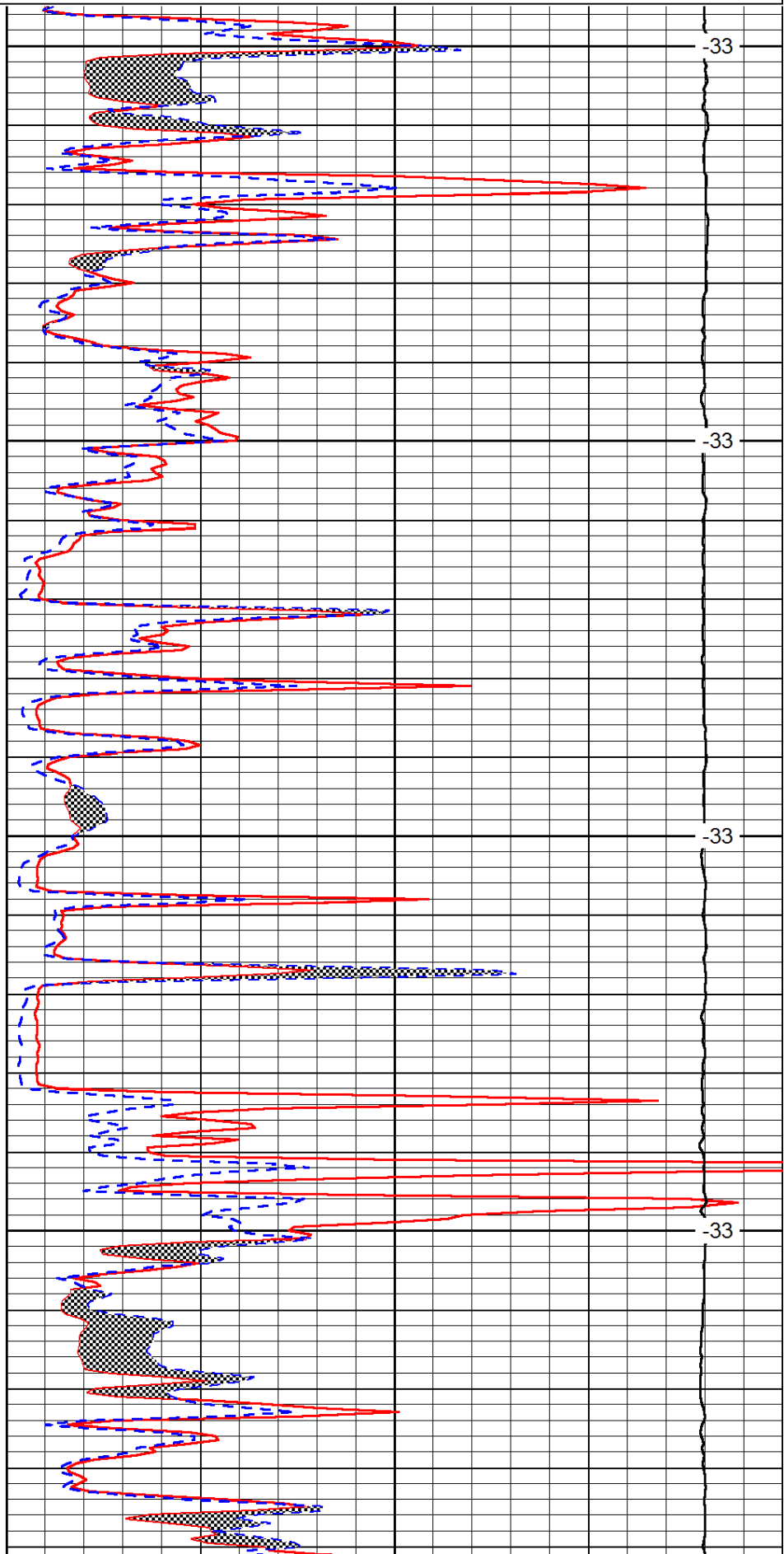
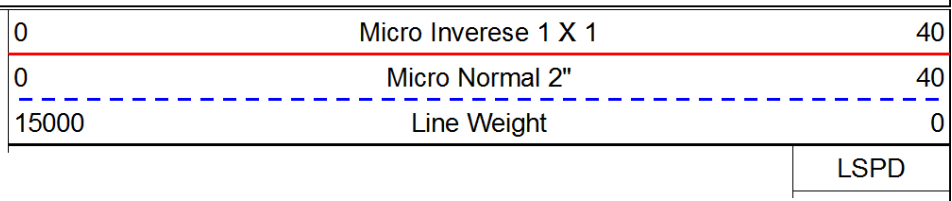
Comments

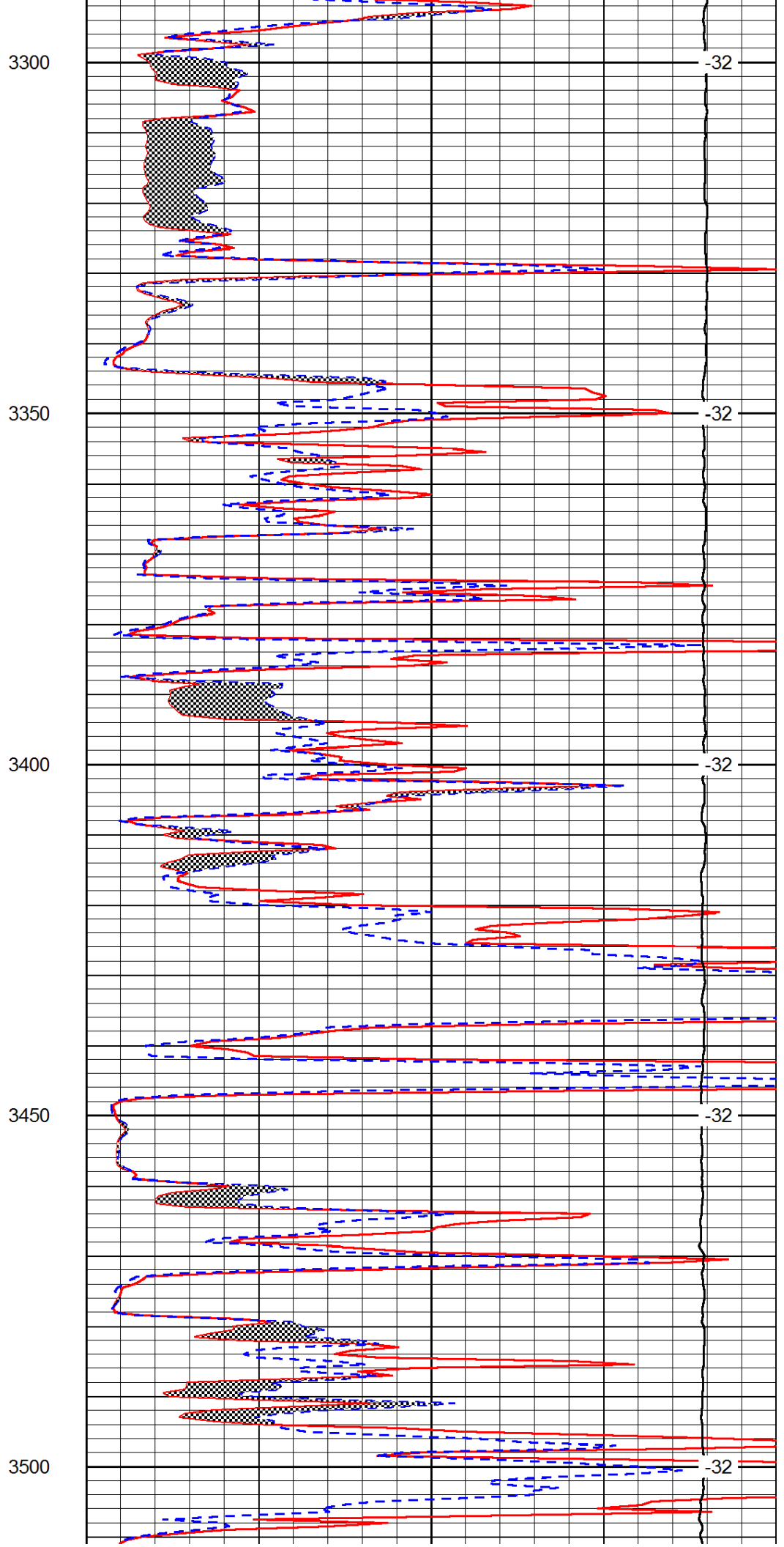
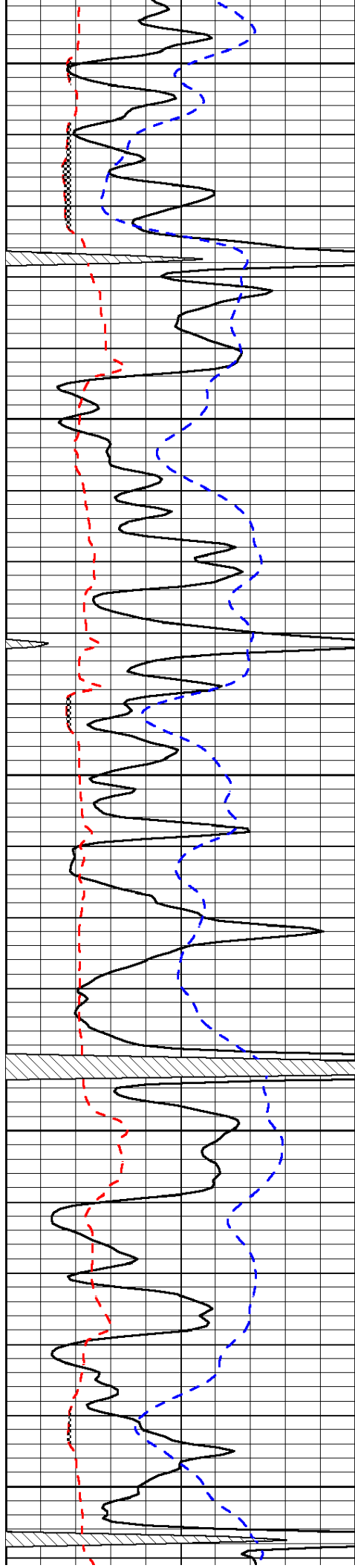
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858
Zurich,
3 West to 7 Rd, 3/4 South,
West into

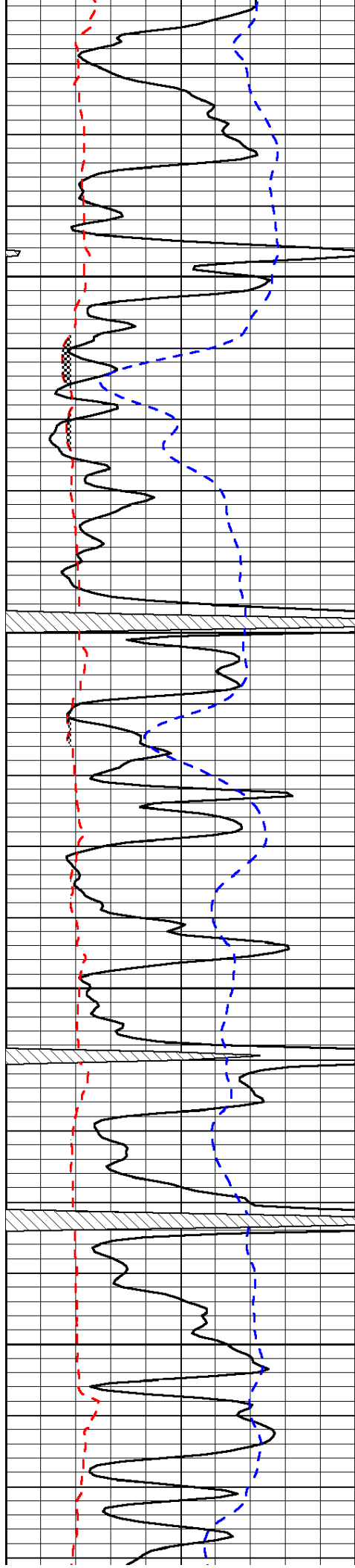
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Presentation Format: micro
Dataset Creation: Thu Sep 19 15:32:22 2013
Charted by: Depth in Feet scaled 1:240



3100
3150
3200
3250





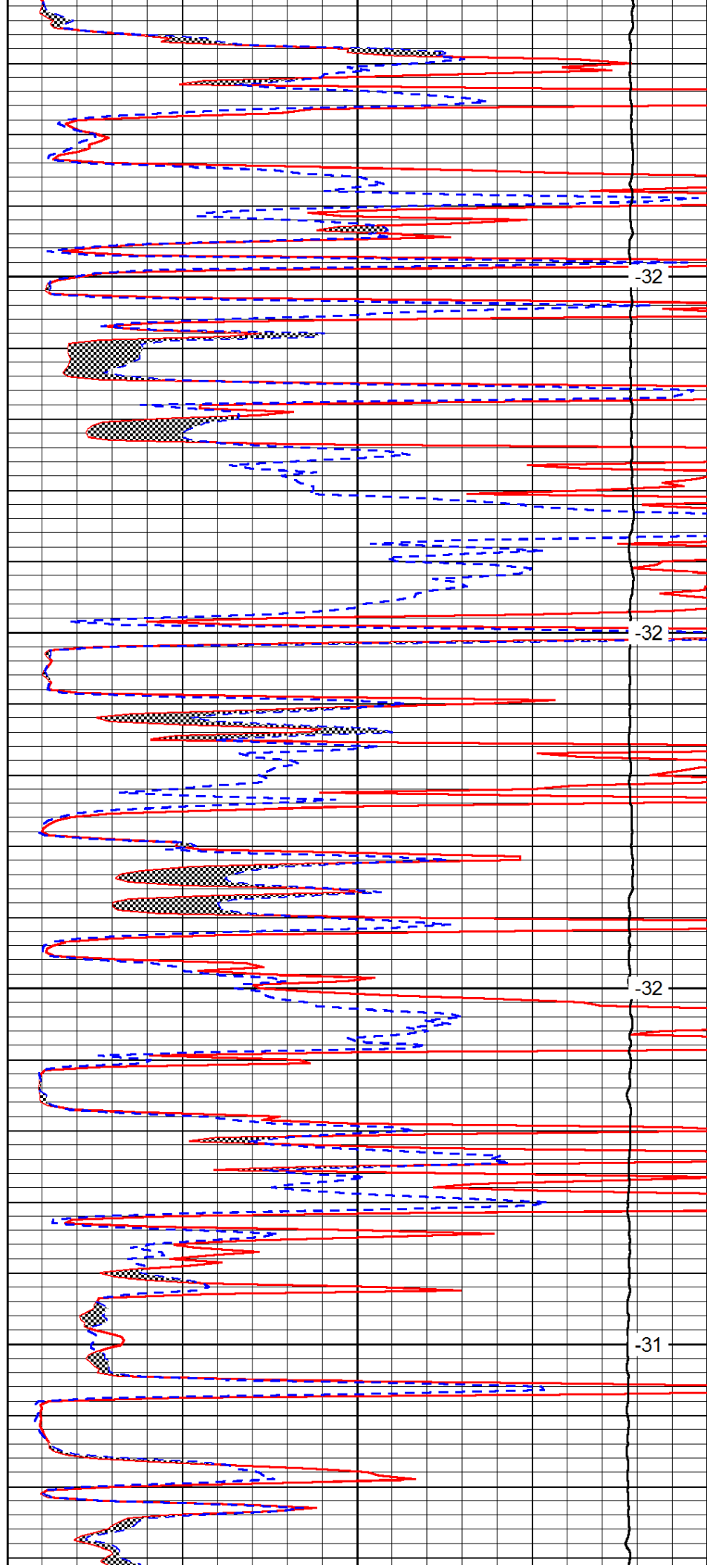


3550

3600

3650

3700

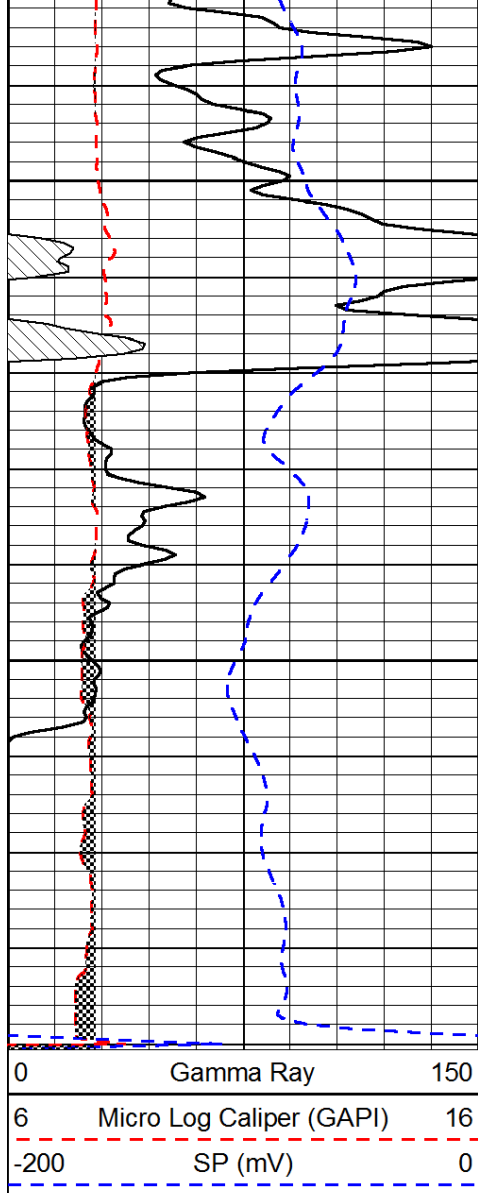


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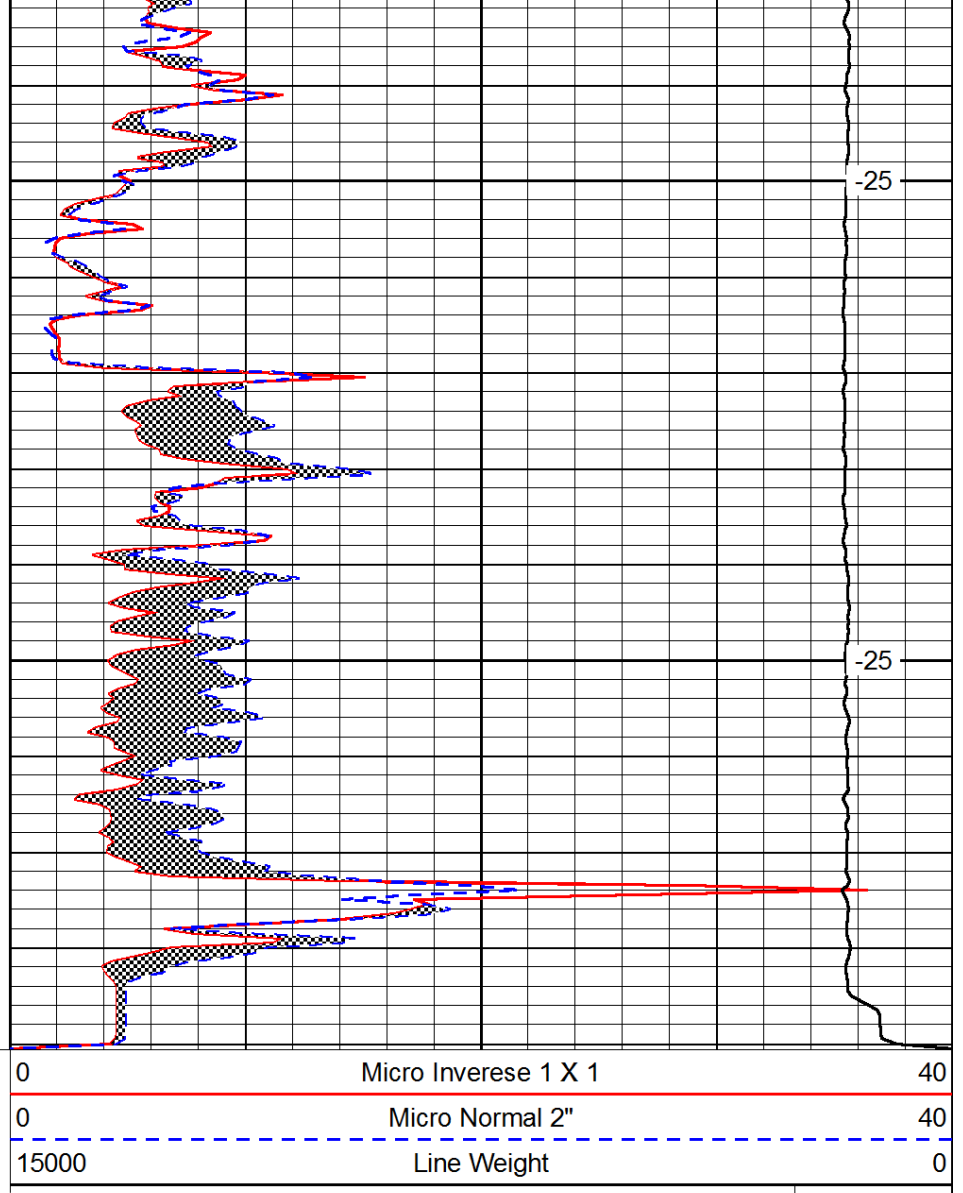
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3750

3800



-25

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LSPD