



Microresistivity Log

Pioneer Energy Services

API No.

15-009-26,000-00-00

Company H&D Exploration, LLC

Well Marlene #1

Field Ash Creek

County Barton State

Kansas

Location

2167' FSL & 500' FEL

Sec: 31 Twp: 20S Rge: 15W

Other Services
CNL/CDL
DIL

Elevation

K.B. 2010
D.F.
G.L. 2002

Permanent Datum Ground Level Elevation 2002
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date

7/12/2014

Run Number

Two

Depth Driller

3925

Depth Logger

3925

Bottom Logged Interval

3924

Top Log Interval

3100

Casing Driller

8.625 @ 1010

Casing Logger

1008

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

4,000

Density / Viscosity

8.9 48

pH / Fluid Loss

9.0 10.4

Source of Sample

Flowline

Rm @ Meas. Temp

.65 @ 78

Rmf @ Meas. Temp

.49 @ 78

Rmc @ Meas. Temp

.88 @ 78

Source of Rmf / Rmc

Charts

Rm @ BHT

.44 @ 115

Operating Rig Time

3 Hours

Max Rec. Temp. F

115

Equipment Number

17

Location

Hays

Recorded By

C. Desaire

Witnessed By

Kurt Talbott

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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.

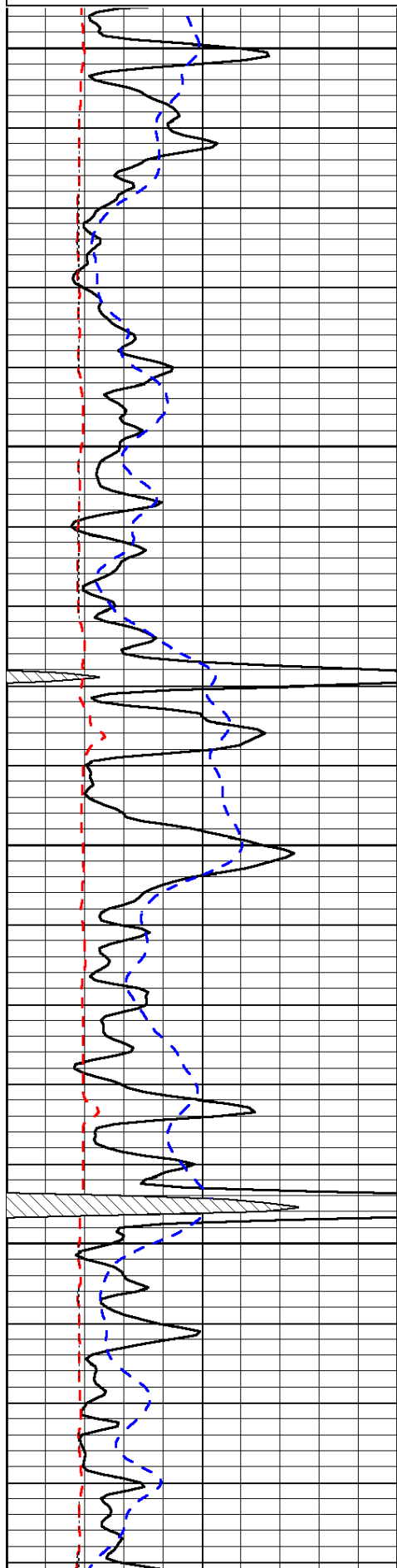
Comments

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

Pawnee Rock, 1 1/2 W on 70th Rd,
1 N, W Into

Database File: c:\warrior\data\h&d_marlene #1\hdhd.db
Dataset Pathname: dil\hdstk
Presentation Format: micro
Dataset Creation: Sat Jul 12 12:49:58 2014
Charted by: Depth in Feet scaled 1:240

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



3100

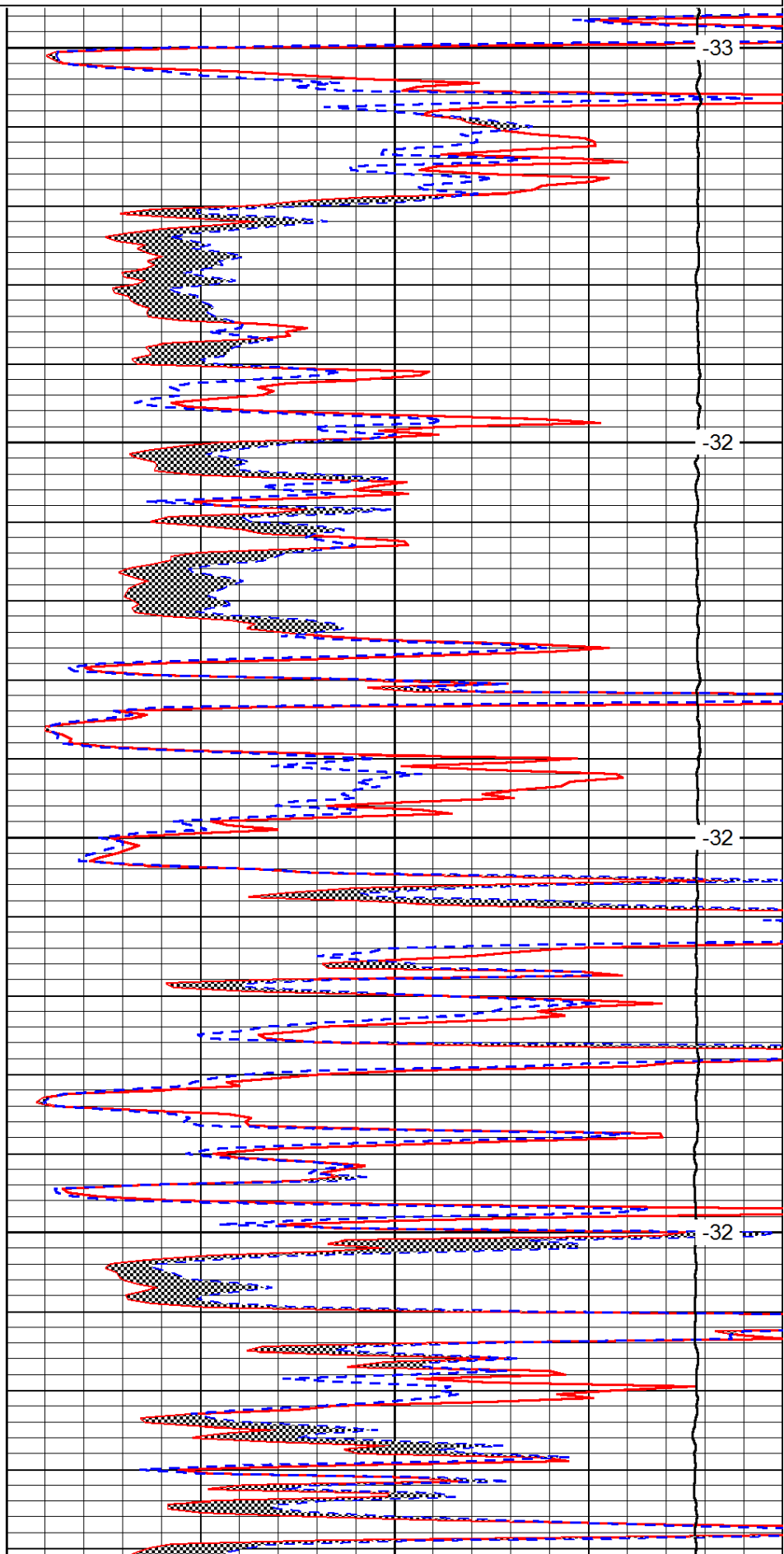
3150

3200

3250

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

LSPD

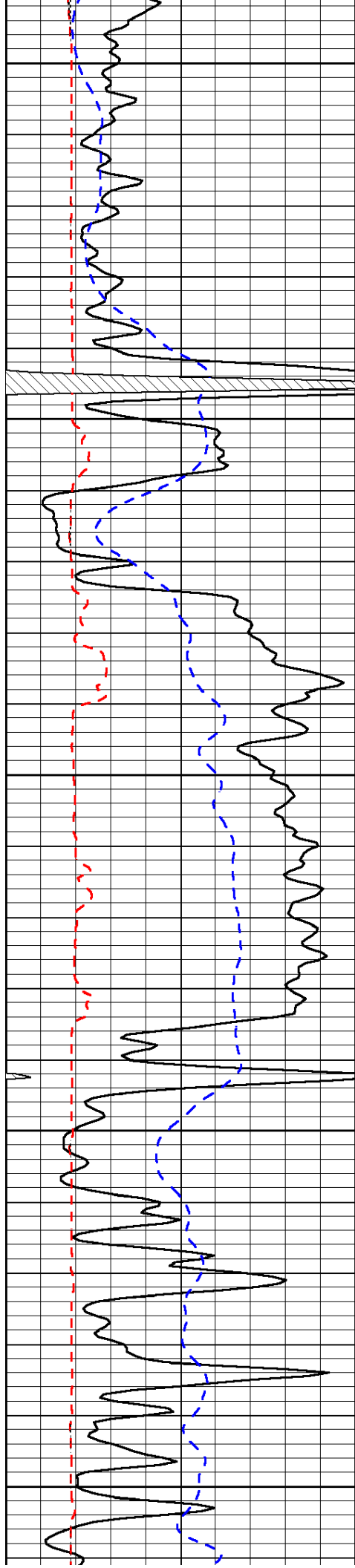


-33

-32

-32

-32



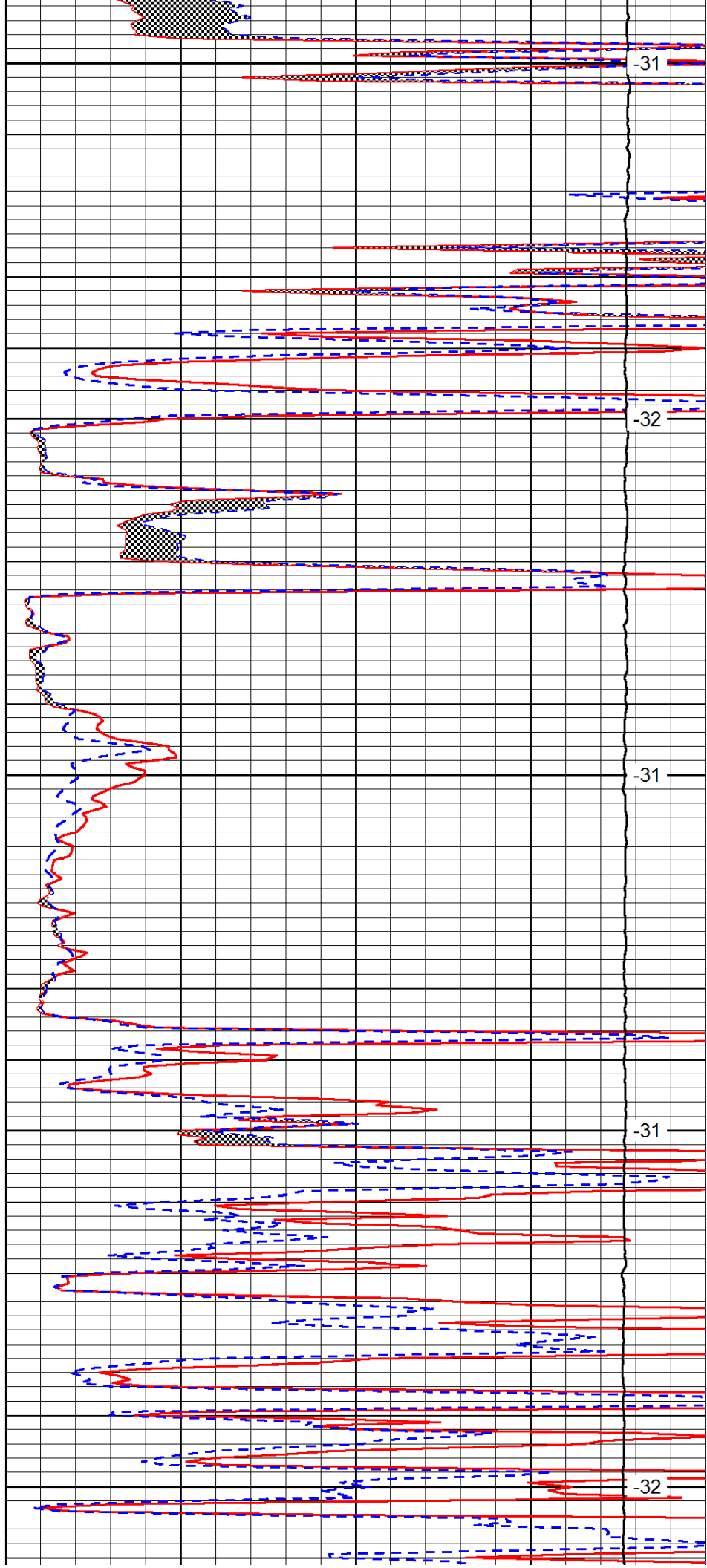
3300

3350

3400

3450

3500



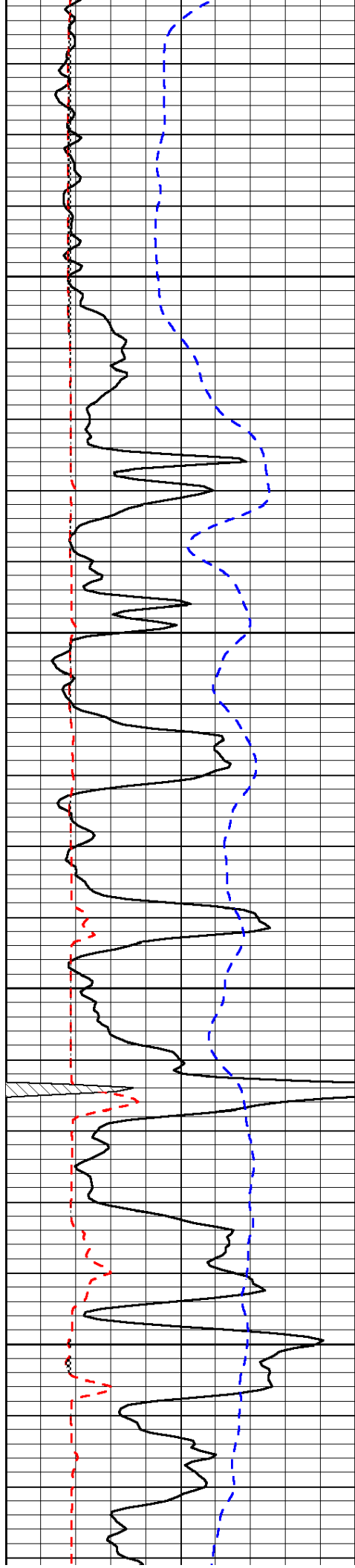
-31

-32

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-32



3550

3600

3650

3700

