



Microresistivity Log

Pioneer Energy Services

API No.

15-079-20707-00-00

Company W.D. Short Oil Company, LLC

Well Balzer # C 5

Field Annelly

County Harvey State

Kansas

Location 1650' FNL & 1750' FWL

Other Services
CNL/CDL
DIL/BHCS

Sec: 35 Twp: 23 S Rge: 2 E

Permanent Datum Ground Level Elevation 1397
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 1405
D.F. 1397
G.L. 1397

Date

9/18/2014

Run Number

Two

Depth Driller

3010

Depth Logger

3004

Bottom Logged Interval

3003

Top Log Interval

2500

Casing Driller

8.625 @ 203

Casing Logger

209

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1600

Density / Viscosity

9.3 43
9.0 8.8

pH / Fluid Loss

Flowline

Source of Sample

0.95 @ 75

Rm @ Meas. Temp

0.71 @ 75

Rmf @ Meas. Temp

1.28 @ 75

Rmc @ Meas. Temp

Charts

Source of Rmf / Rmc

0.66 @ 108

Rm @ BHT

4 Hours

Operating Rig Time

108

Max Rec. Temp. F

91

Equipment Number

Hays

Location

Y. Ruiz

Recorded By

Dan Johnson

Witnessed By

<<< Fold Here >>>

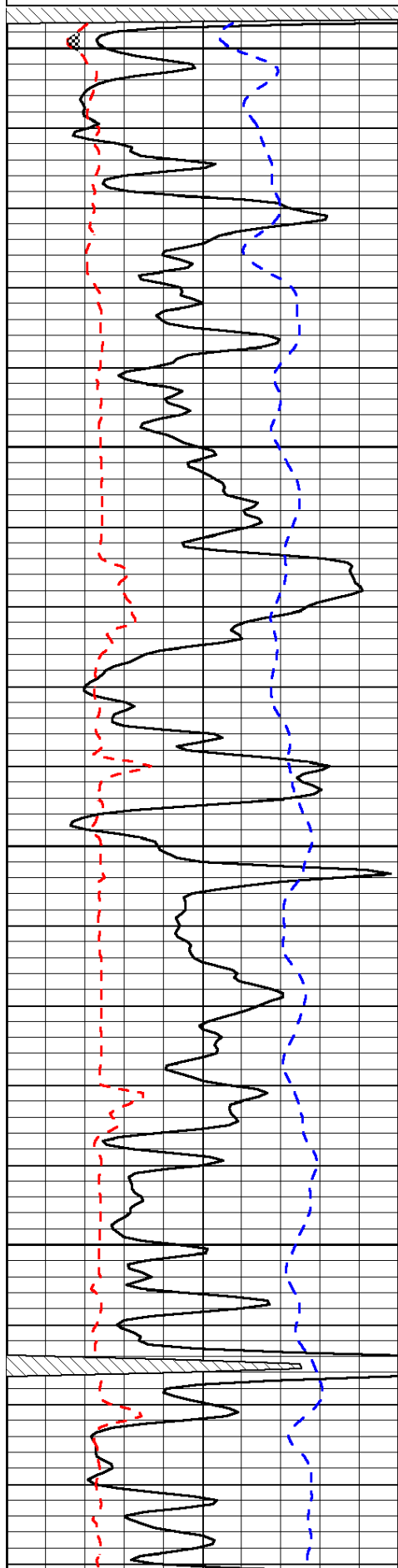
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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
Whitewater exit,
6 1/2 East to East Lake Rd, 3 North to 36 Rd,
3/4 East to Grace Hill Rd, 1/2 North,
(Just past the Bridge) East into

Database File: c:\warrior\data\w.d. short oil_balzer #c 5\wd_short_oil_balzer_#_c5_hd.db
Dataset Pathname: DIL/wdstk
Presentation Format: micro
Dataset Creation: Fri Sep 19 03:11:42 2014
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



2500

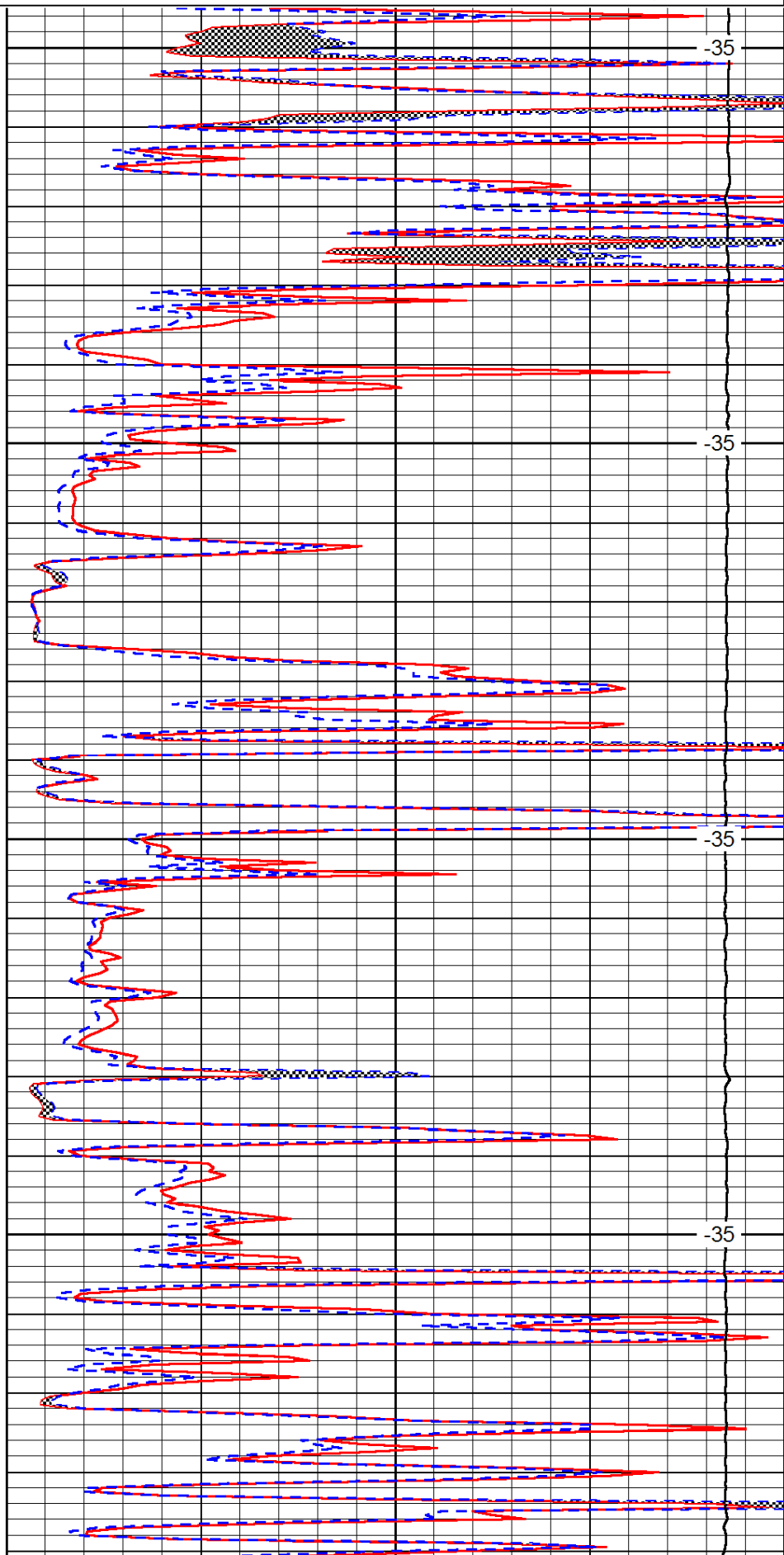
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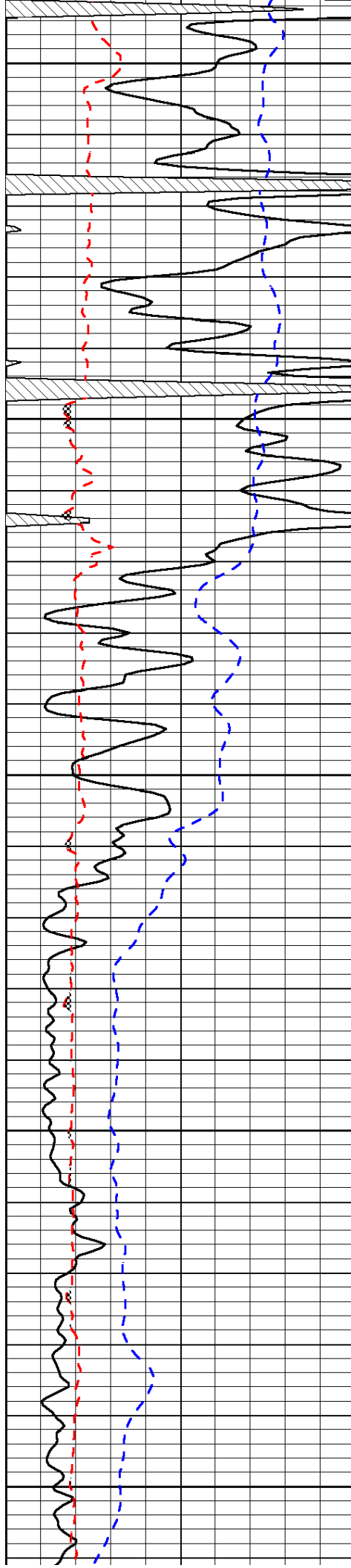
2600

2650

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

LSPD





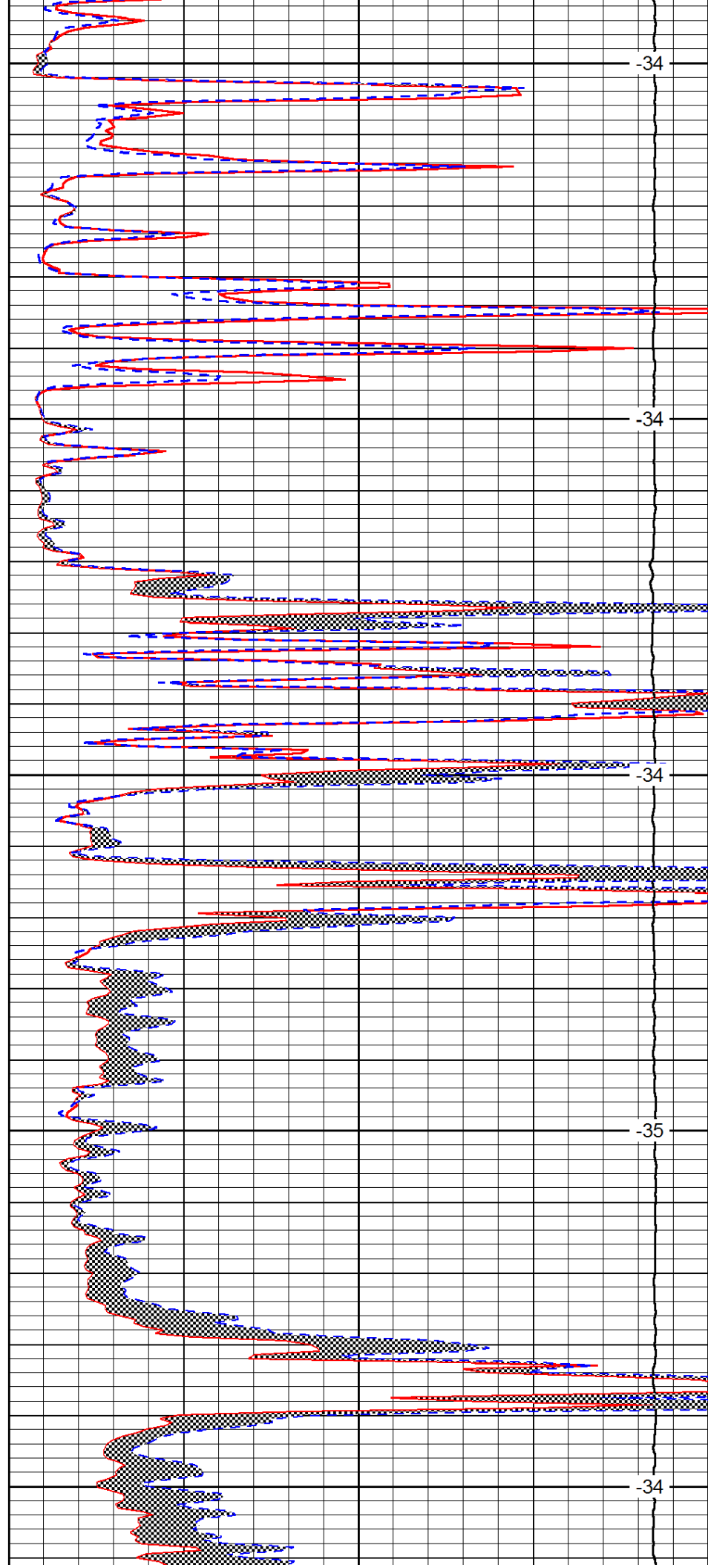
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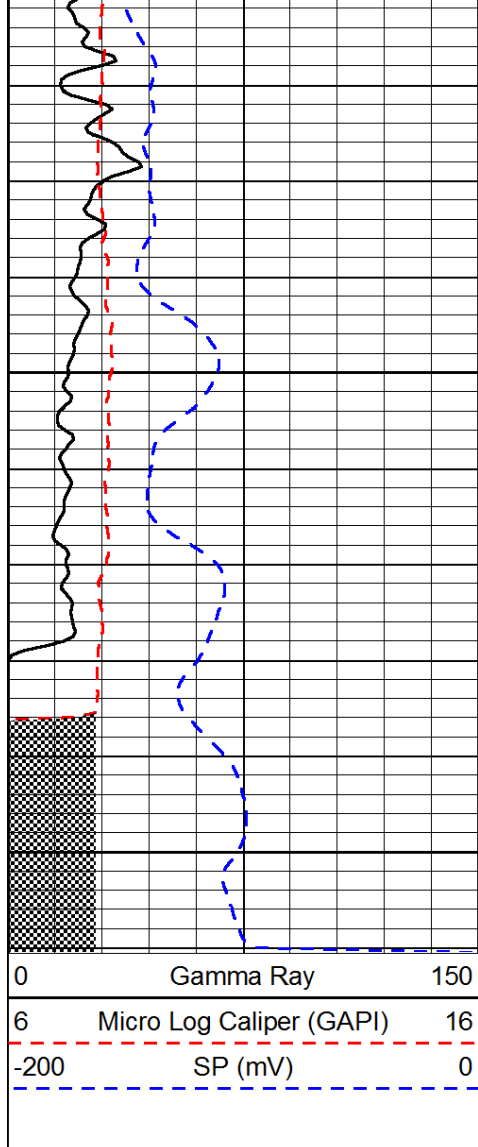
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2800

2850

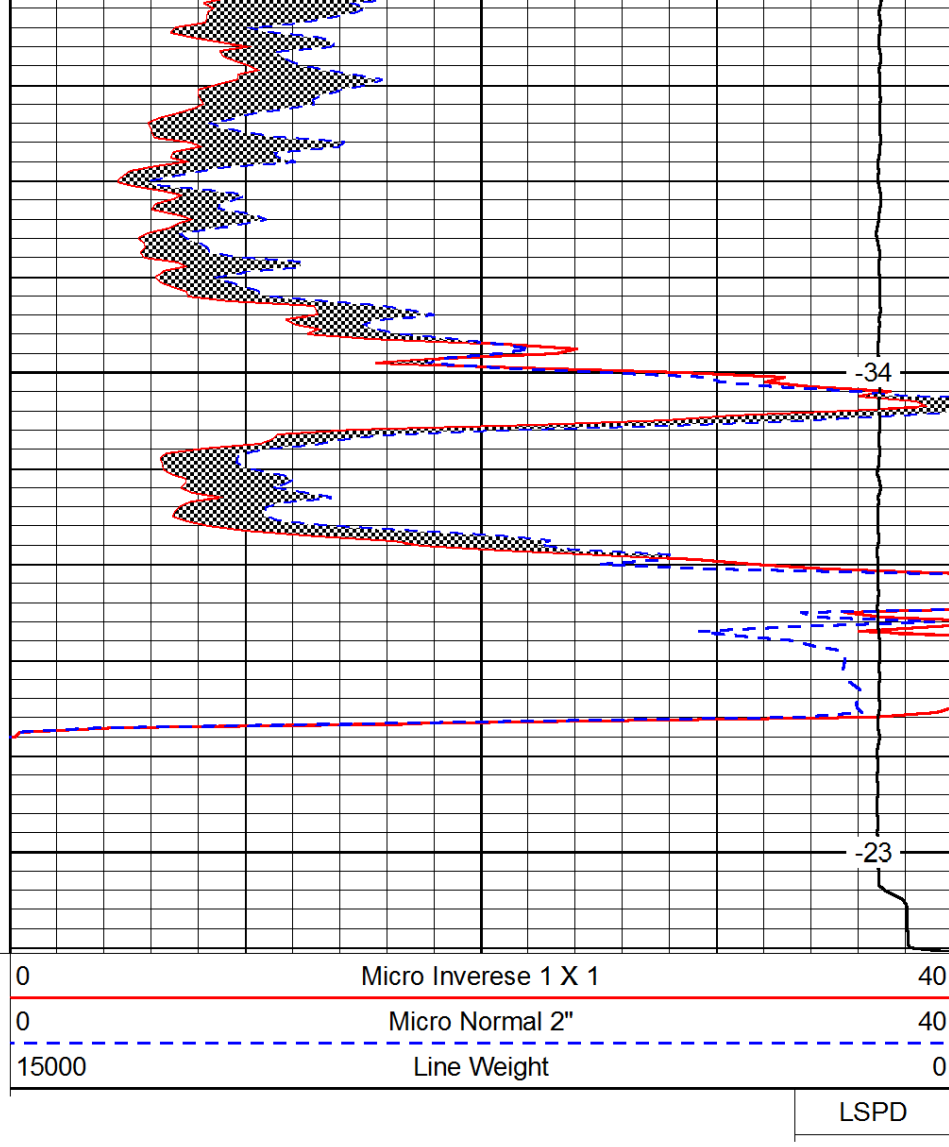
2900





2950

3000



-34

-23