



Microresistivity Log

Pioneer Energy Services

API No.

15-153-20,978-00-00

Company **Murfin Drilling Company, Inc.**
Well **Burk Trust 'A' #3-23**
Field **East Fork**
County **Rawlins** State **Kansas**

Location **NW SW NW
1650' FNL & 330' FWL**
Sec: **23** Twp: **1S** Rge: **36W**

Other Services
CNL/CDL
DIL/BHCS

Elevation

Permanent Datum **Ground Level** Elevation **3243**
Log Measured From **Kelly Bushing** 11 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

K.B. 3254
D.F. 3243
G.L. 3243

Date **1/22/2014**

Run Number **Two**

Depth Driller **4550**

Depth Logger **4552**

Bottom Logged Interval **4551**

Top Log Interval **3500**

Casing Driller **8.625 @ 264**

Casing Logger **265**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **500**

Density / Viscosity **9.2 58**

pH / Fluid Loss **10.5 5.8**

Source of Sample **Flowline**

Rm @ Meas. Temp **0.60 @ 57**

Rmf @ Meas. Temp **0.45 @ 57**

Rmc @ Meas. Temp **0.81 @ 57**

Source of Rmf / Rmc **Charts**

Rm @ BHT **0.28 @ 122**

Operating Rig Time **5 Hours**

Max Rec. Temp. F **122**

Equipment Number **15**

Location **Hays**

Recorded By **D. Kerr**

Witnessed By **Wes Hansen**

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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.

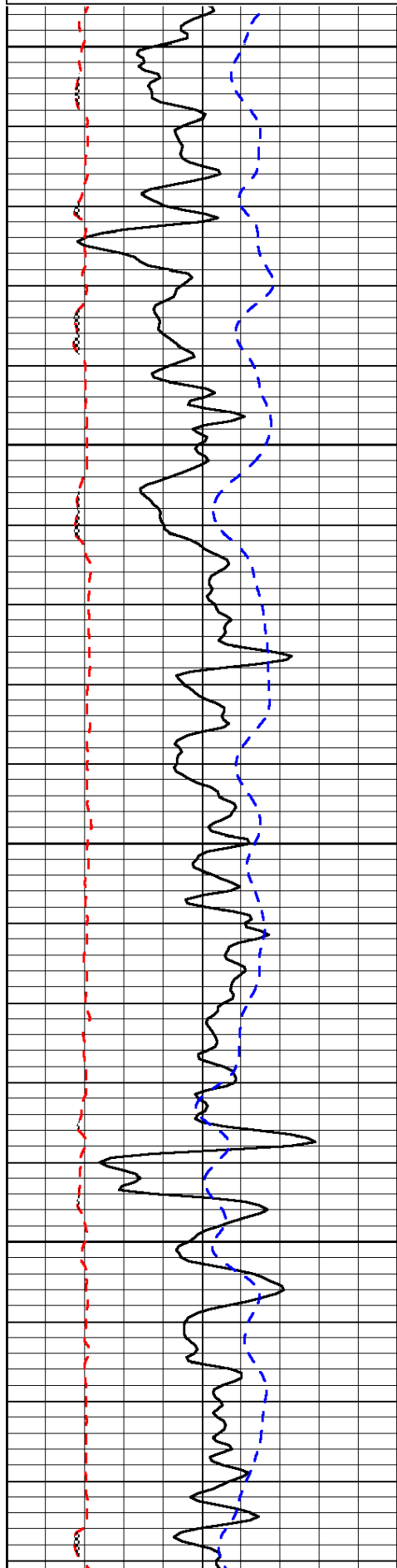
Comments

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

Beardsley KS, North to AA RD,
West to 5 1/2 RD, 1/2 North, West Into

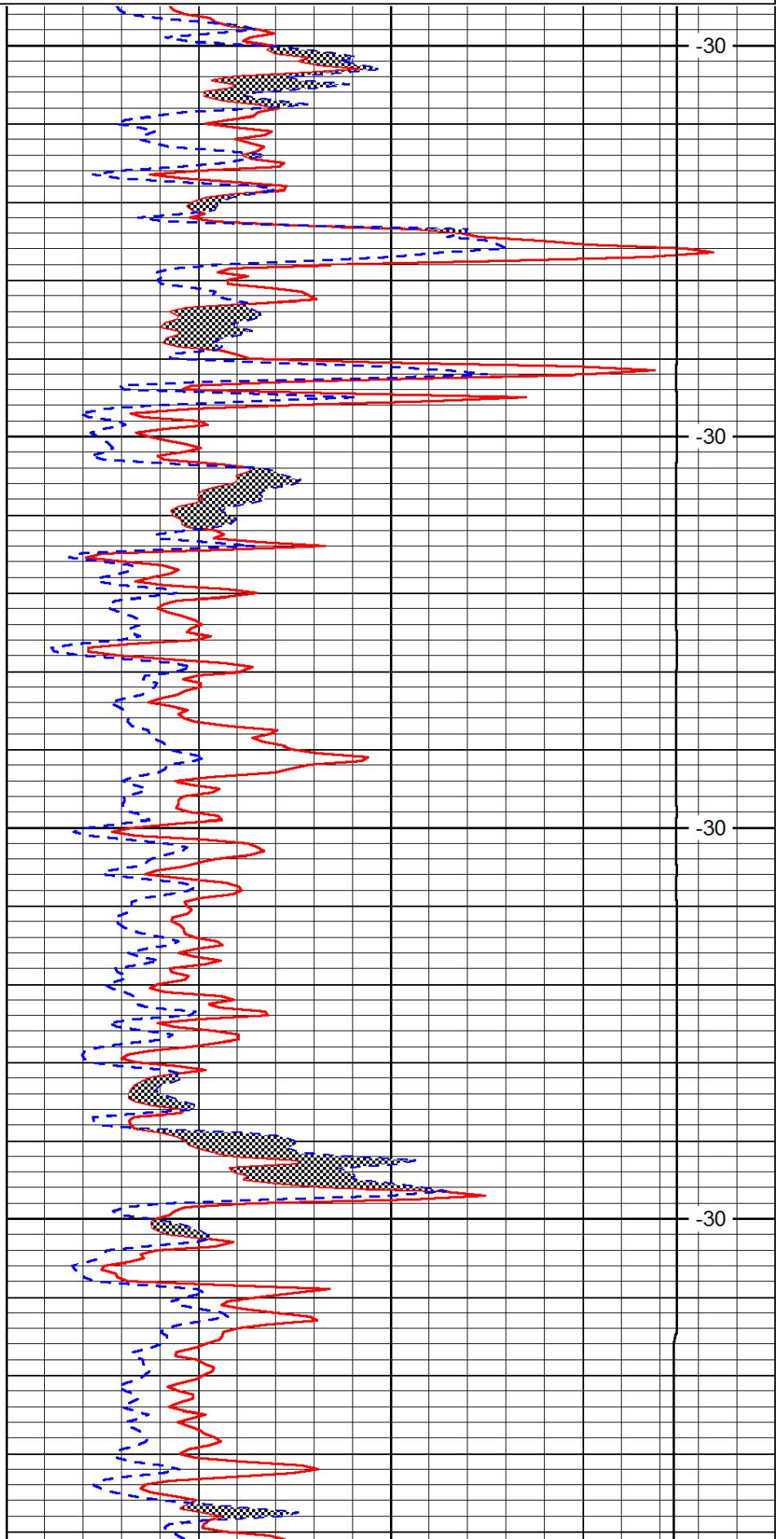
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Dataset Pathname: DIL\murfstk
Presentation Format: micro
Dataset Creation: Wed Jan 22 02:22:26 2014
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

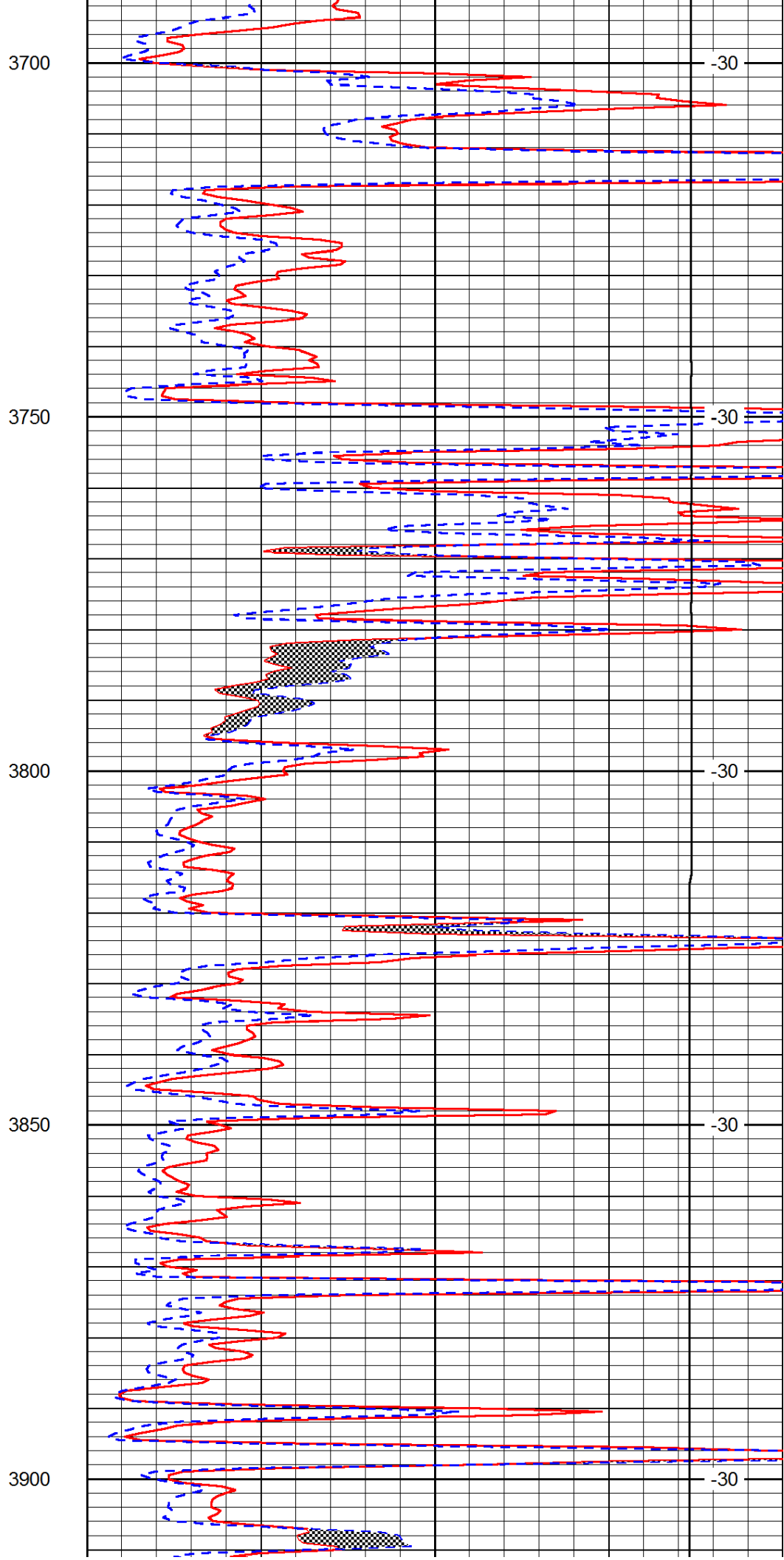
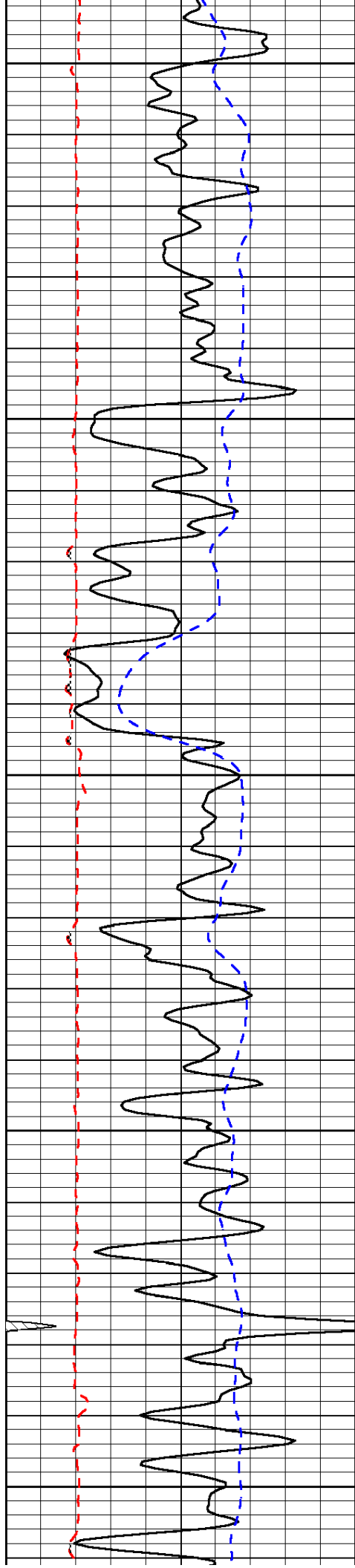


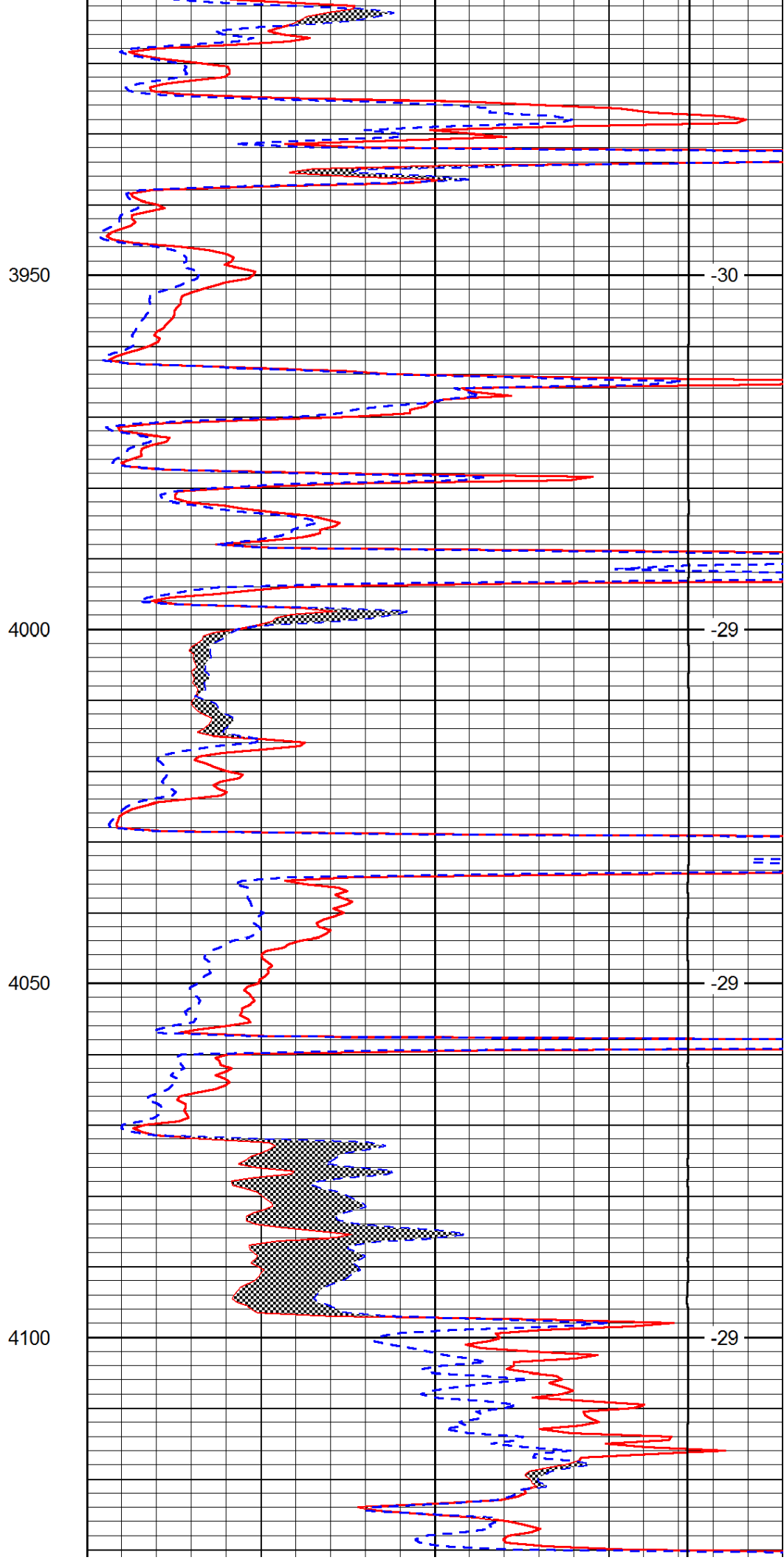
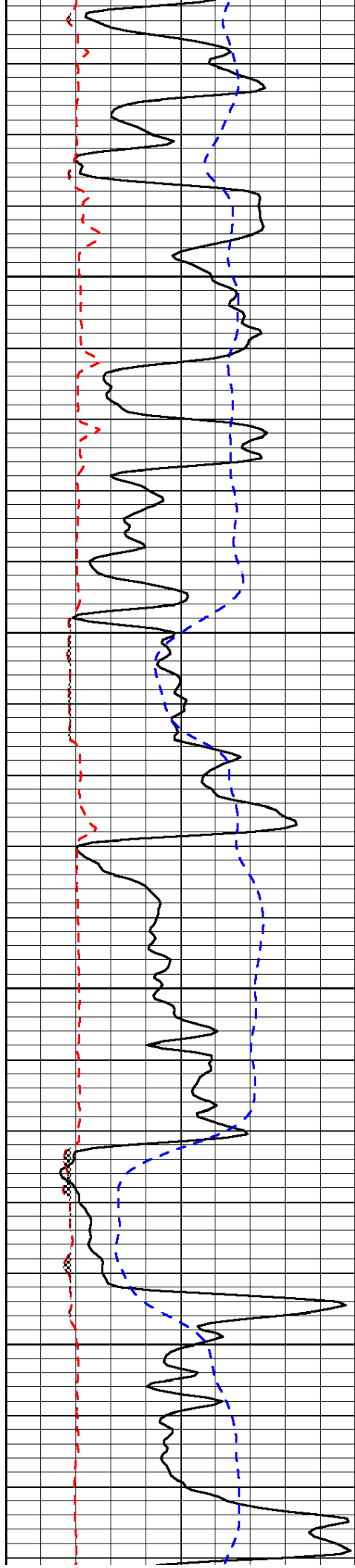
3500
3550
3600
3650

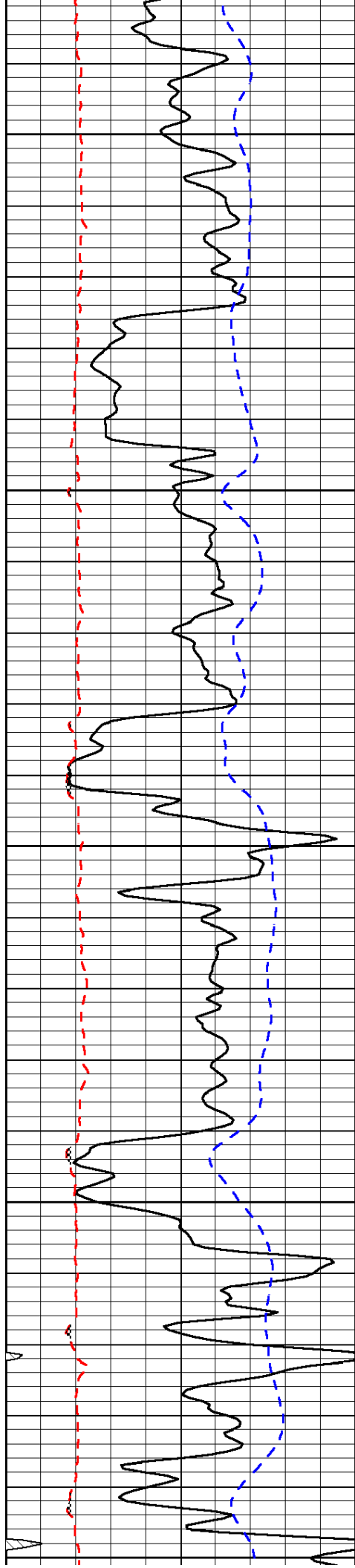
0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0



-30
-30
-30
-30







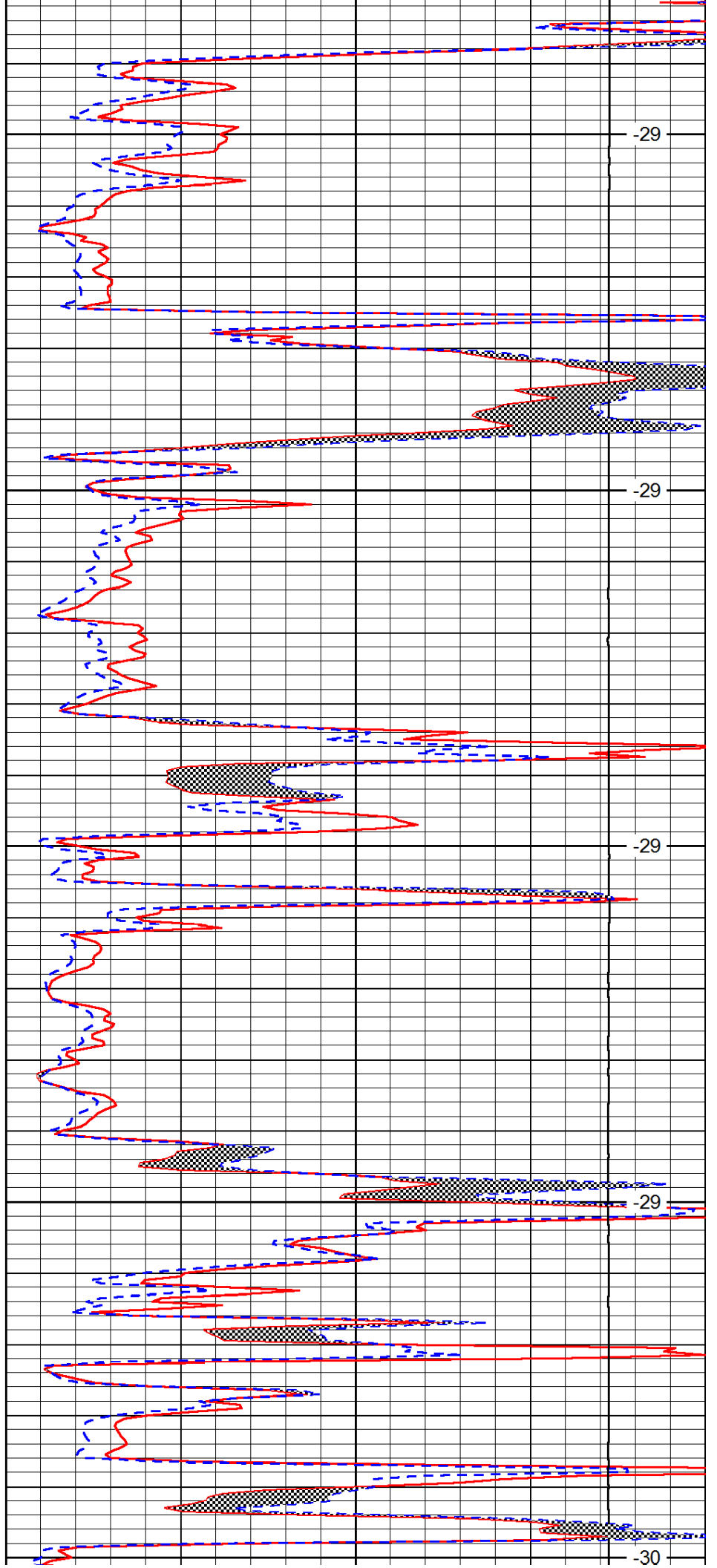
4150

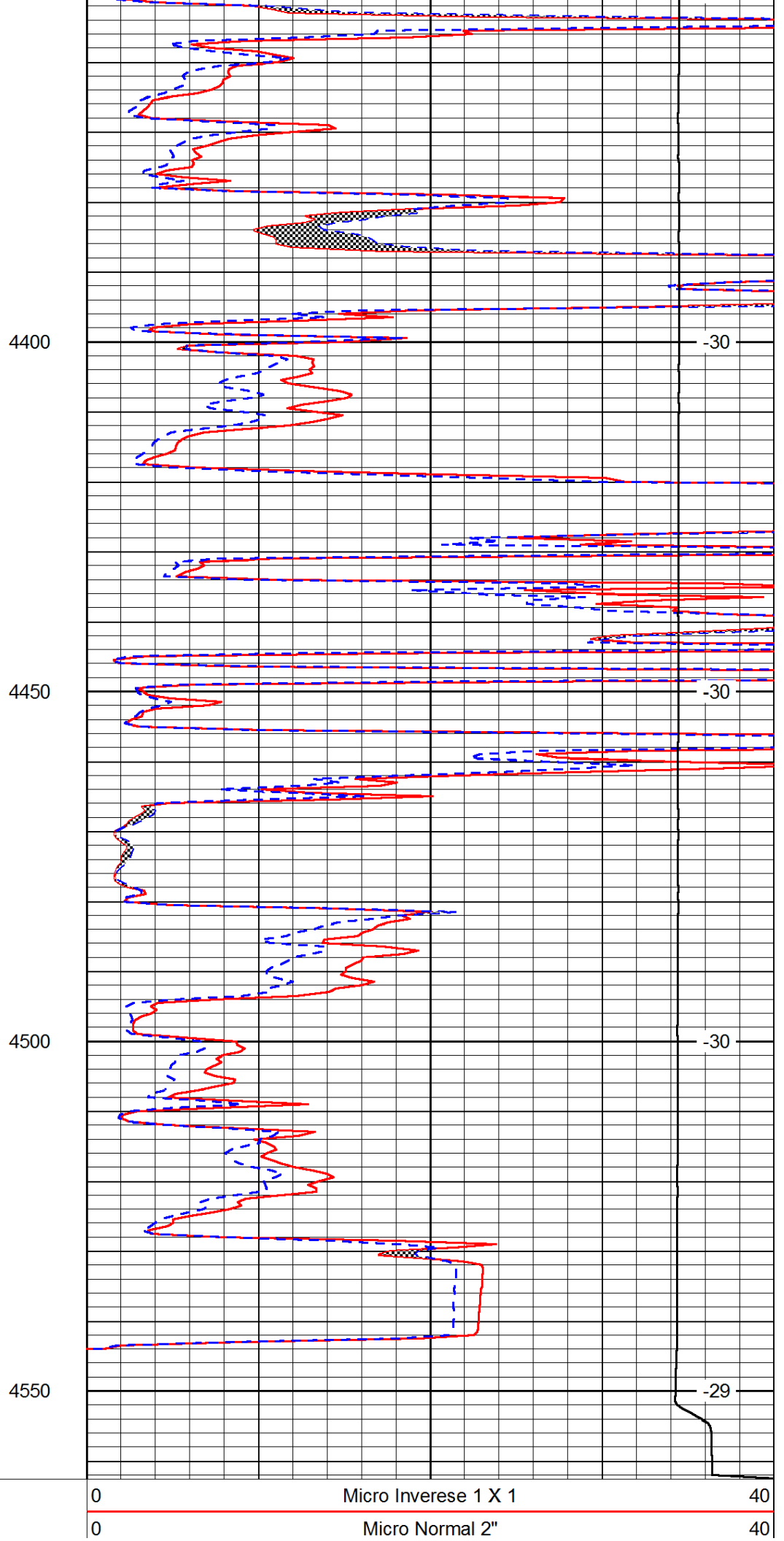
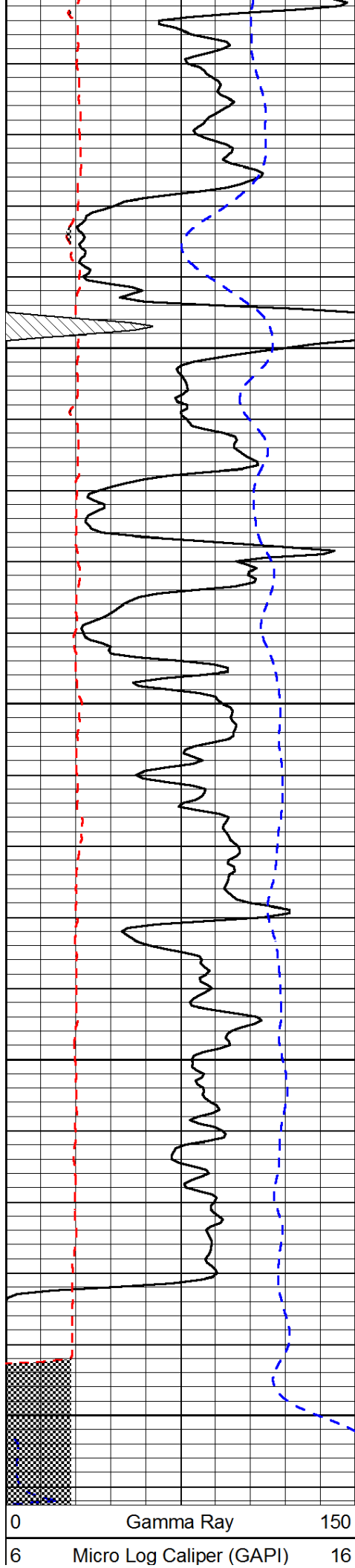
4200

4250

4300

4350





-200	SP (mV)	0	15000	Line Weight	0
					LSPD