



Microresistivity Log

Pioneer Energy Services

API No.

15-063-22,171-00-00

Company Lario Oil & Gas Company
Well Ottley "A" # 4-4
Field Logo Southeast
County Gove State Kansas

Location 1,980' FNL & 660' FEL

Sec: 4 Twp: 13S Rge: 31W

Other Services
CNL/CDL
DIL

Elevation

K.B. 2941
D.F. 2929
G.L. 2929

Permanent Datum Ground Level Elevation 2929
Log Measured From Kelly Bushing 12 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 1/12/2014

Run Number Two

Depth Driller 4700

Depth Logger 4697

Bottom Logged Interval 4696

Top Log Interval 3500

Casing Driller 8.625 @ 262

Casing Logger 262

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 4000

Density / Viscosity 9.2 56

pH / Fluid Loss 9.5 10.4

Source of Sample Flowline

Rm @ Meas. Temp .44 @ 62

Rmf @ Meas. Temp .33 @ 62

Rmc @ Meas. Temp .59 @ 62

Source of Rmf / Rmc Charts

Rm @ BHT .22 @ 123

Operating Rig Time 4 Hours

Max Rec. Temp. F 123

Equipment Number 108

Location Hays

Recorded By J. Long

Witnessed By Macklin Armstrong

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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.

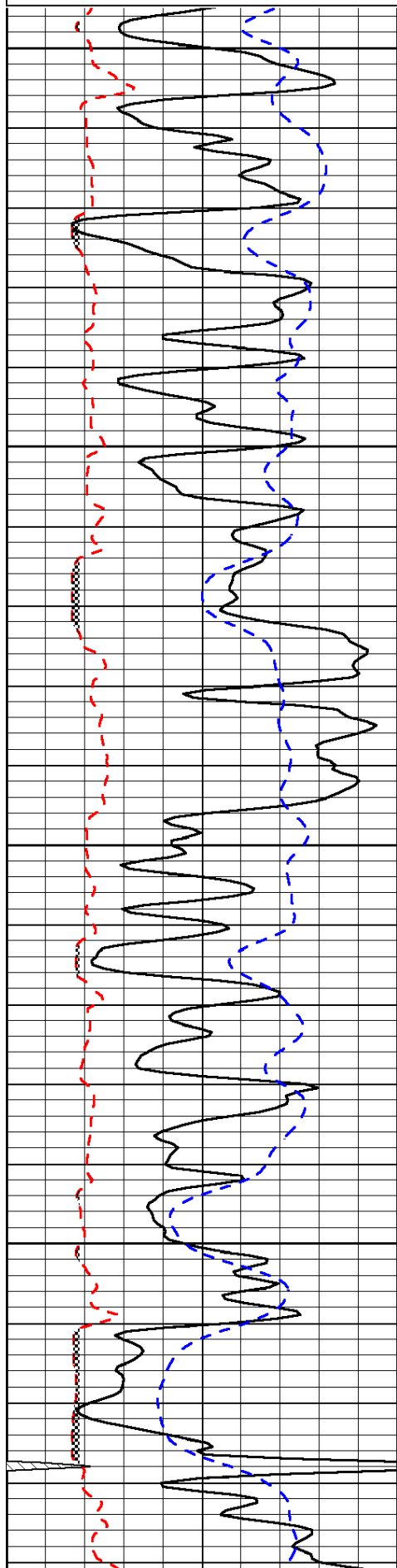
Comments

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

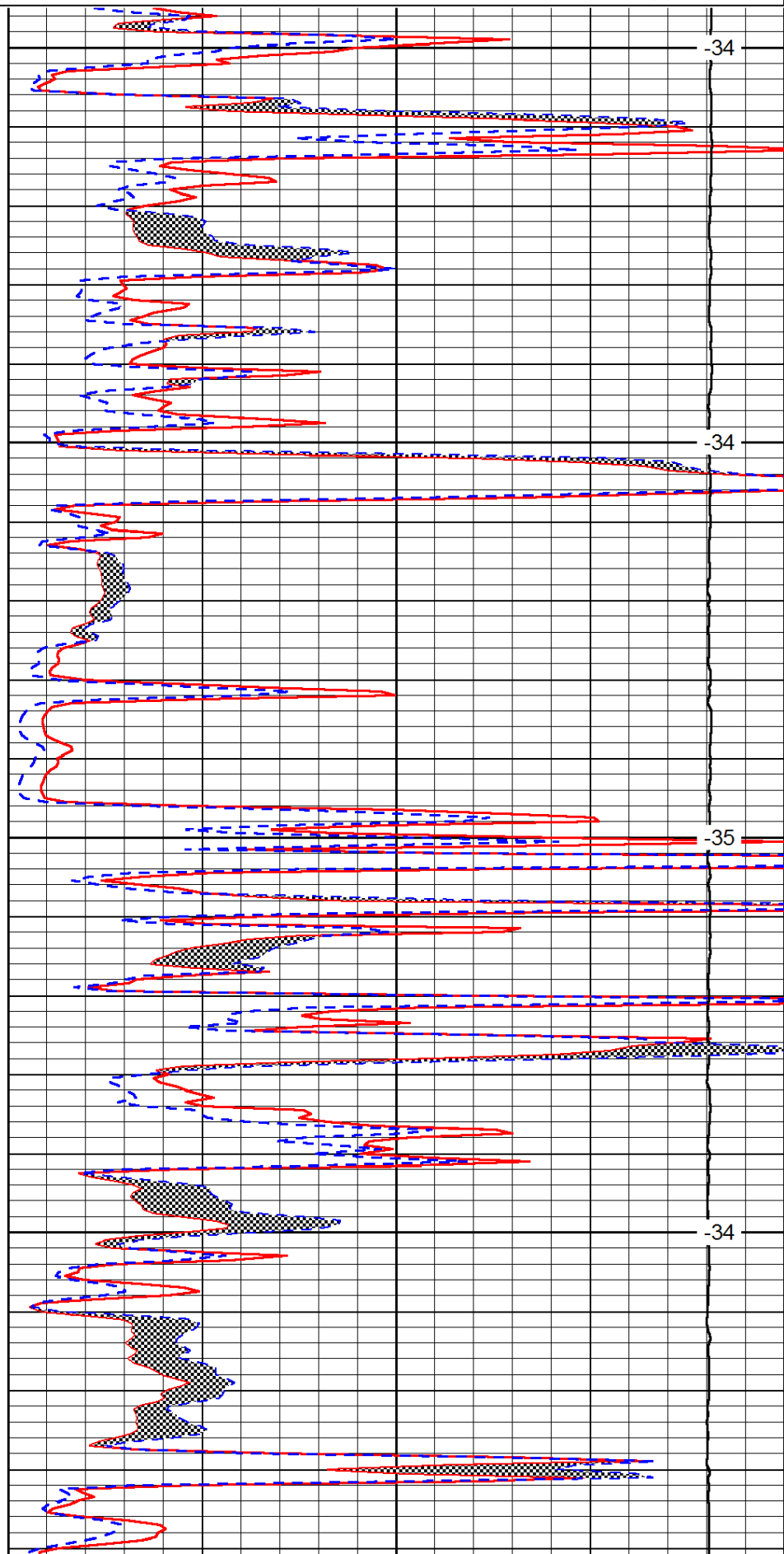
Oakley, 11 South to Seneca Road, 5 East, 1/2 South, West Into

Database File: c:\warrior\data\lario_ottley a # 4-4\lario_ottley_a_4-4hd.db
Dataset Pathname: dil\laristck
Presentation Format: micro
Dataset Creation: Sun Jan 12 01:21:03 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

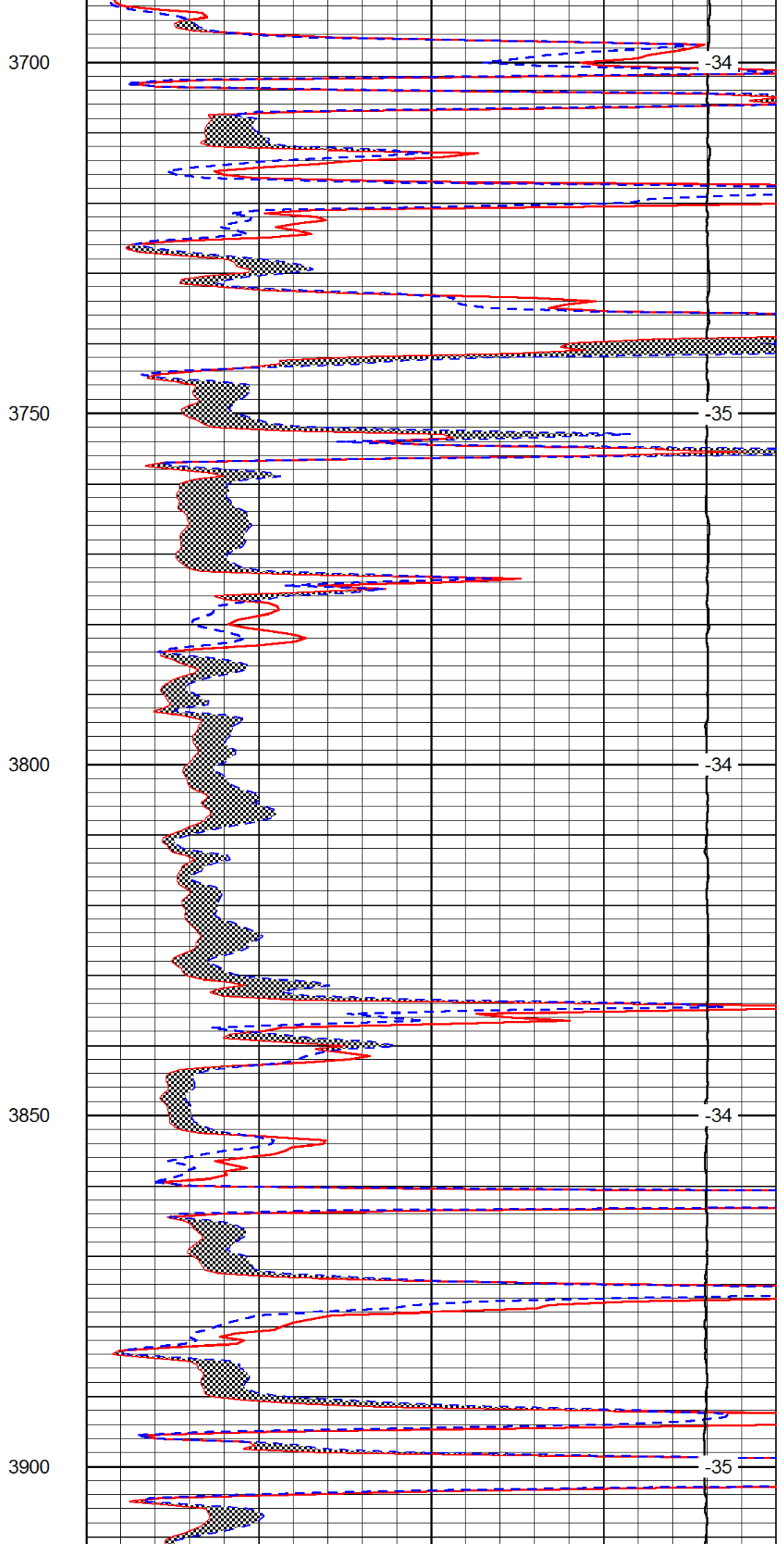
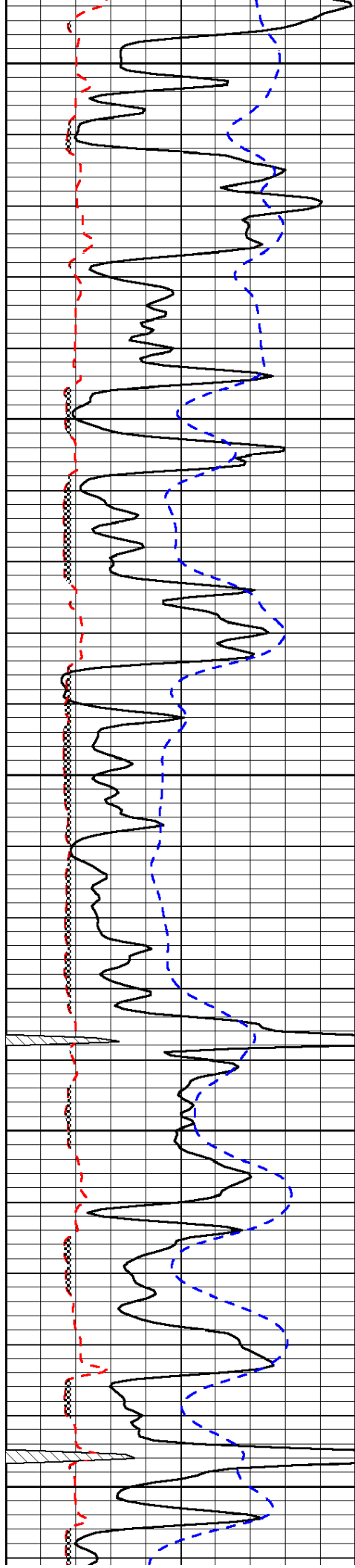


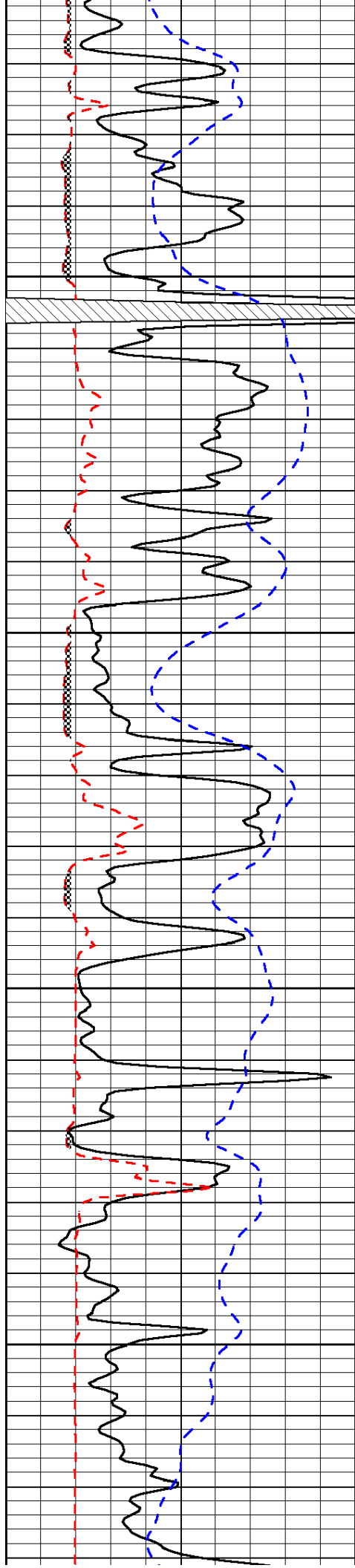
3500
3550
3600
3650



-34
-34
-35
-34

LSPD



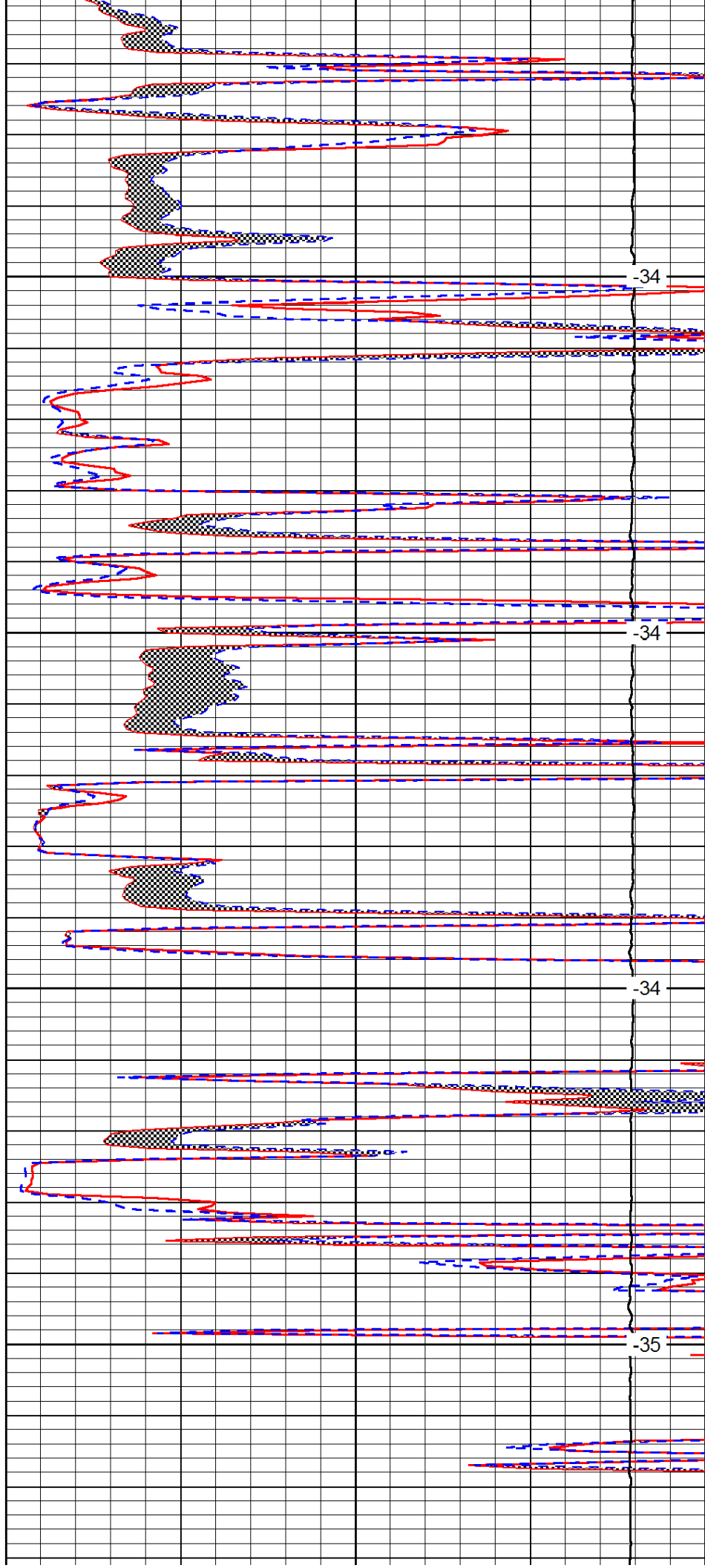


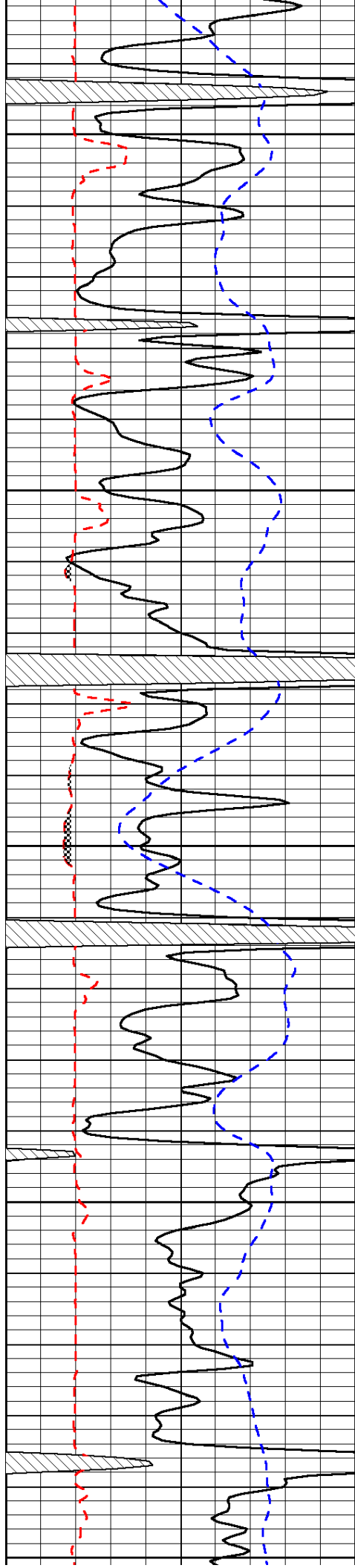
3950

4000

4050

4100





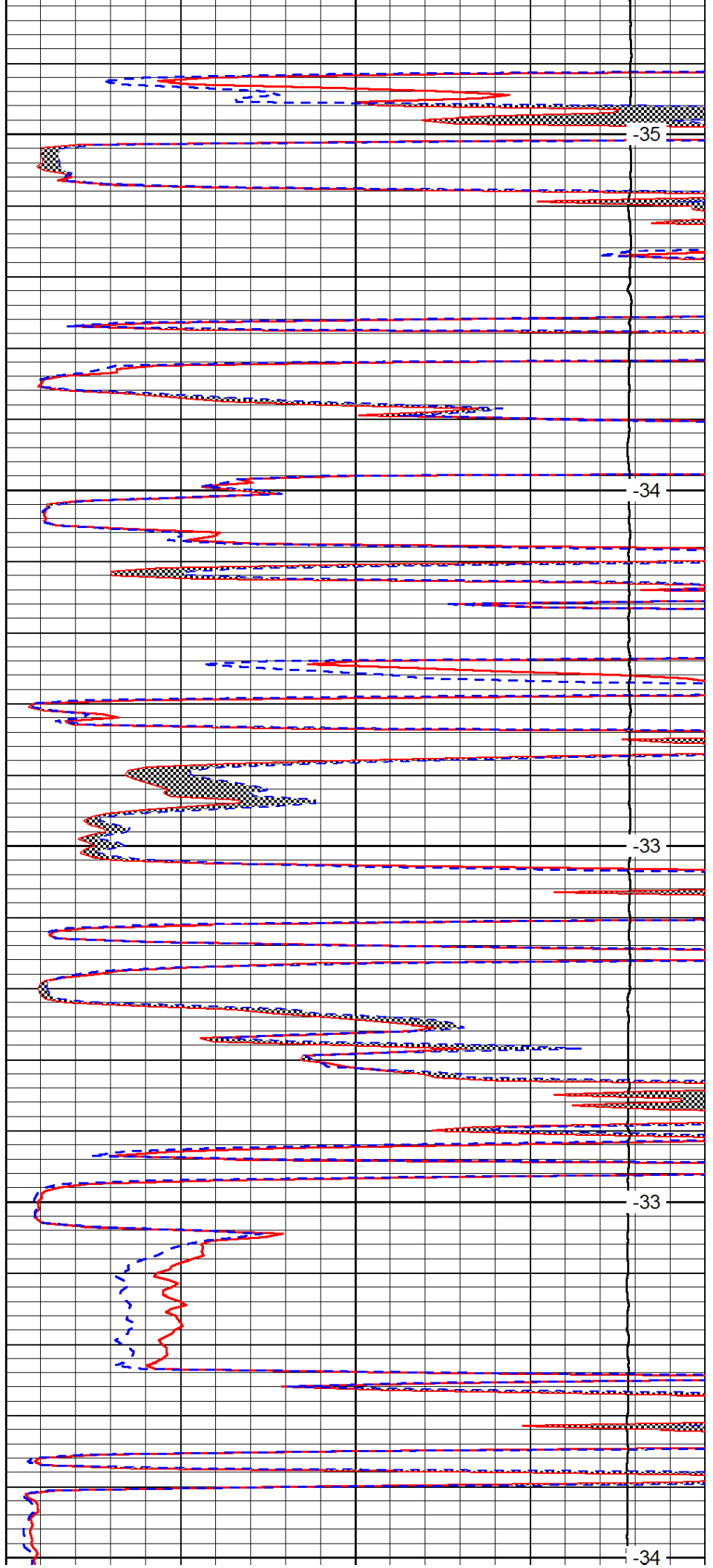
4150

4200

4250

4300

4350



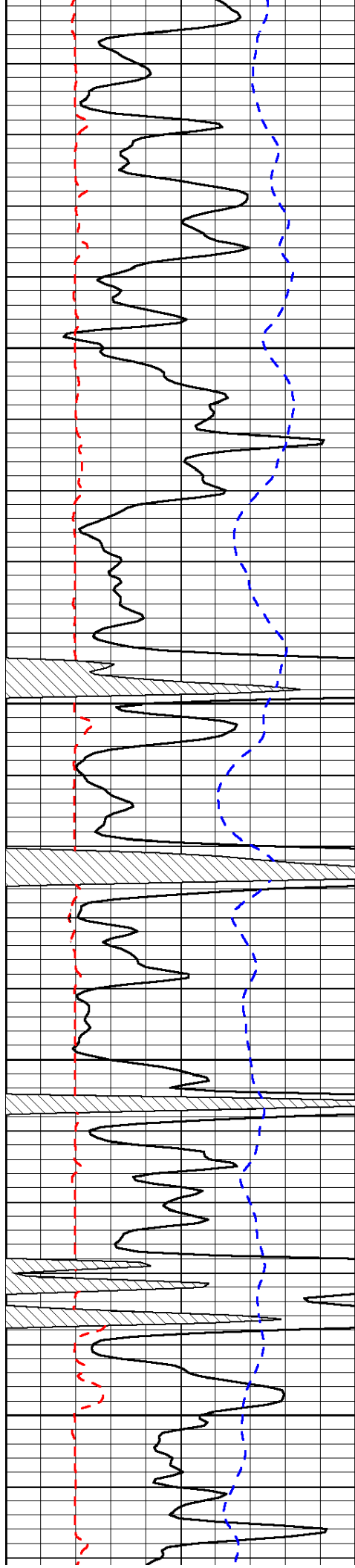
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-34

-33

-33

-34

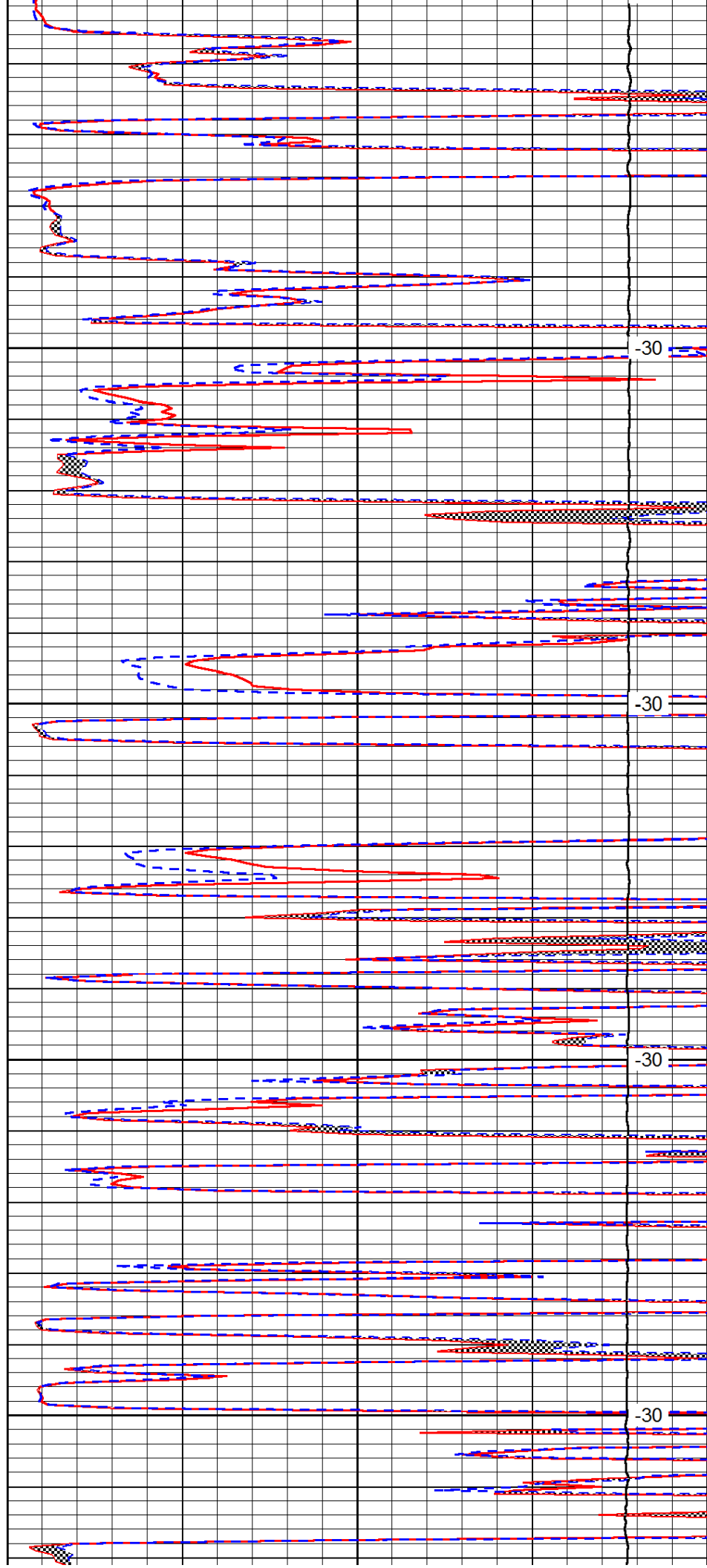


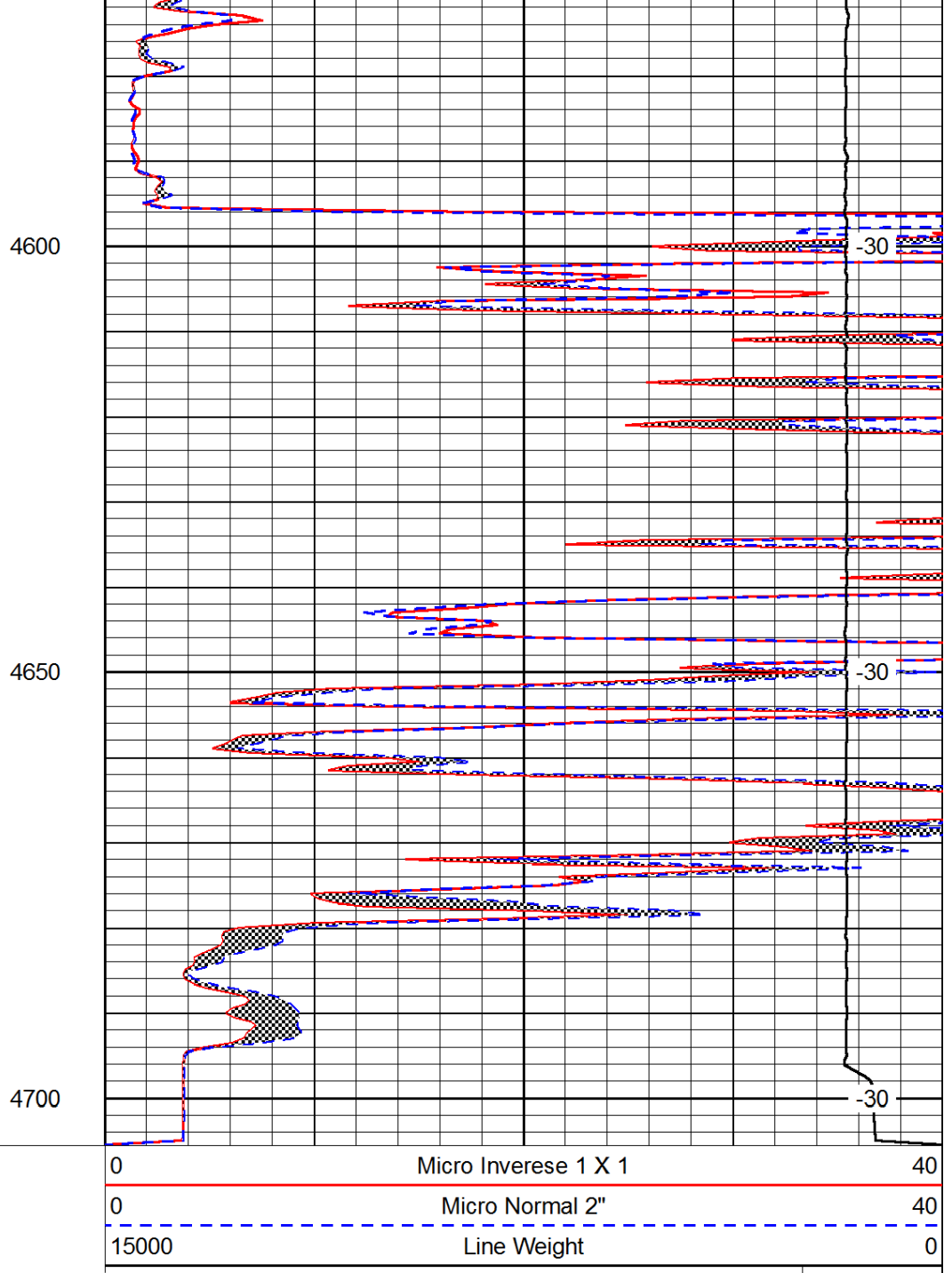
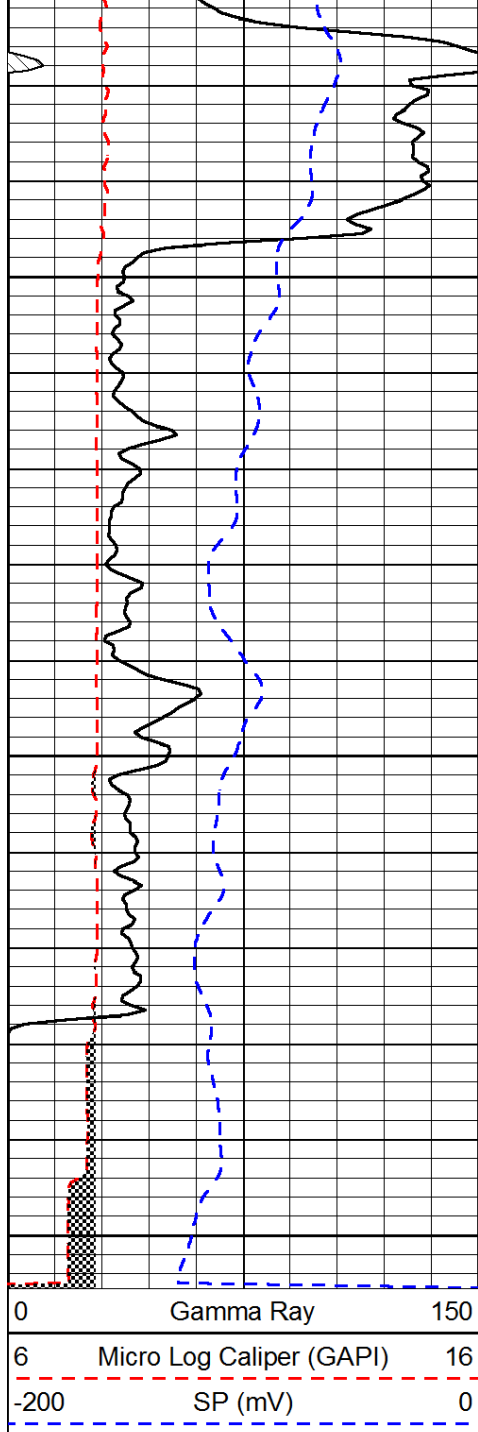
4400

4450

4500

4550





LSPD