



Pioneer Energy Services

Microresistivity
Log

API No.

15-155-21,722-00-00

Company Novy Oil & Gas, Inc.

Well Grover No. 3

Field Sterling SW

County Reno State

Kansas

Location

660' FNL & 1880' FWL

Other Services
CNL/CDL
DIL

Sec: 20

Twp: 22s

Rge: 8w

Elevation

Permanent Datum Ground Level Elevation 1697
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

K.B. 1707
D.F.
G.L. 1697

Date 12/17/2014

Run Number Two

Depth Driller 3640

Depth Logger 3644

Bottom Logged Interval 3643

Top Log Interval 2800

Casing Driller 8.625 @ 268

Casing Logger 264

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 8500

Density / Viscosity 9.4 68

pH / Fluid Loss 10.5 9.2

Source of Sample Flowline

Rm @ Meas. Temp .72 @ 53

Rmf @ Meas. Temp .54 @ 53

Rmc @ Meas. Temp .97 @ 53

Source of Rmf / Rmc Charts

Rm @ BHT .34 @ 112

Operating Rig Time 3 Hours

Max Rec. Temp. F 112

Equipment Number 108

Location Hays

Recorded By D. Fischer

Witnessed By J. Henrickson

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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

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(785) 625-3858

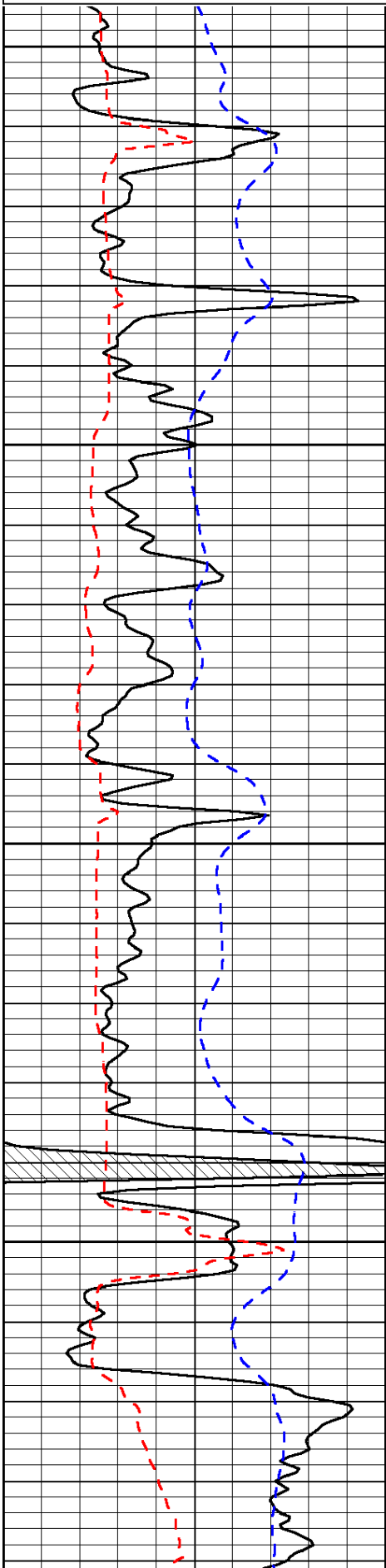
Sterling Ks., 4 South to Curve, 1/2 East, 1 South, 1 1/2 West, South Into.

Database File: novy_oil_grover_3hd.db
Dataset Pathname: DIL/novstck
Presentation Format: micro
Dataset Creation: Wed Dec 17 06:52:00 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0

LSPD

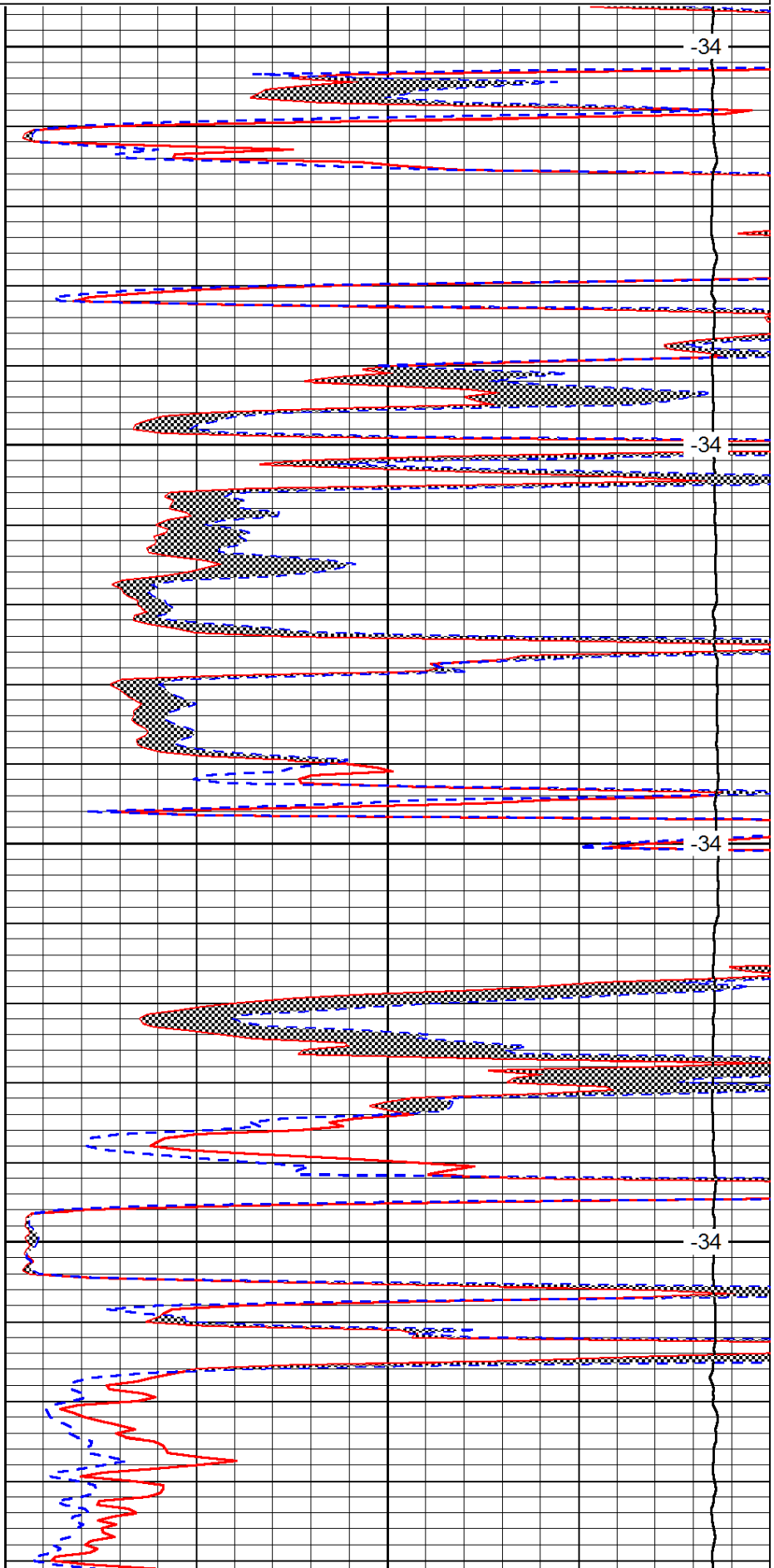


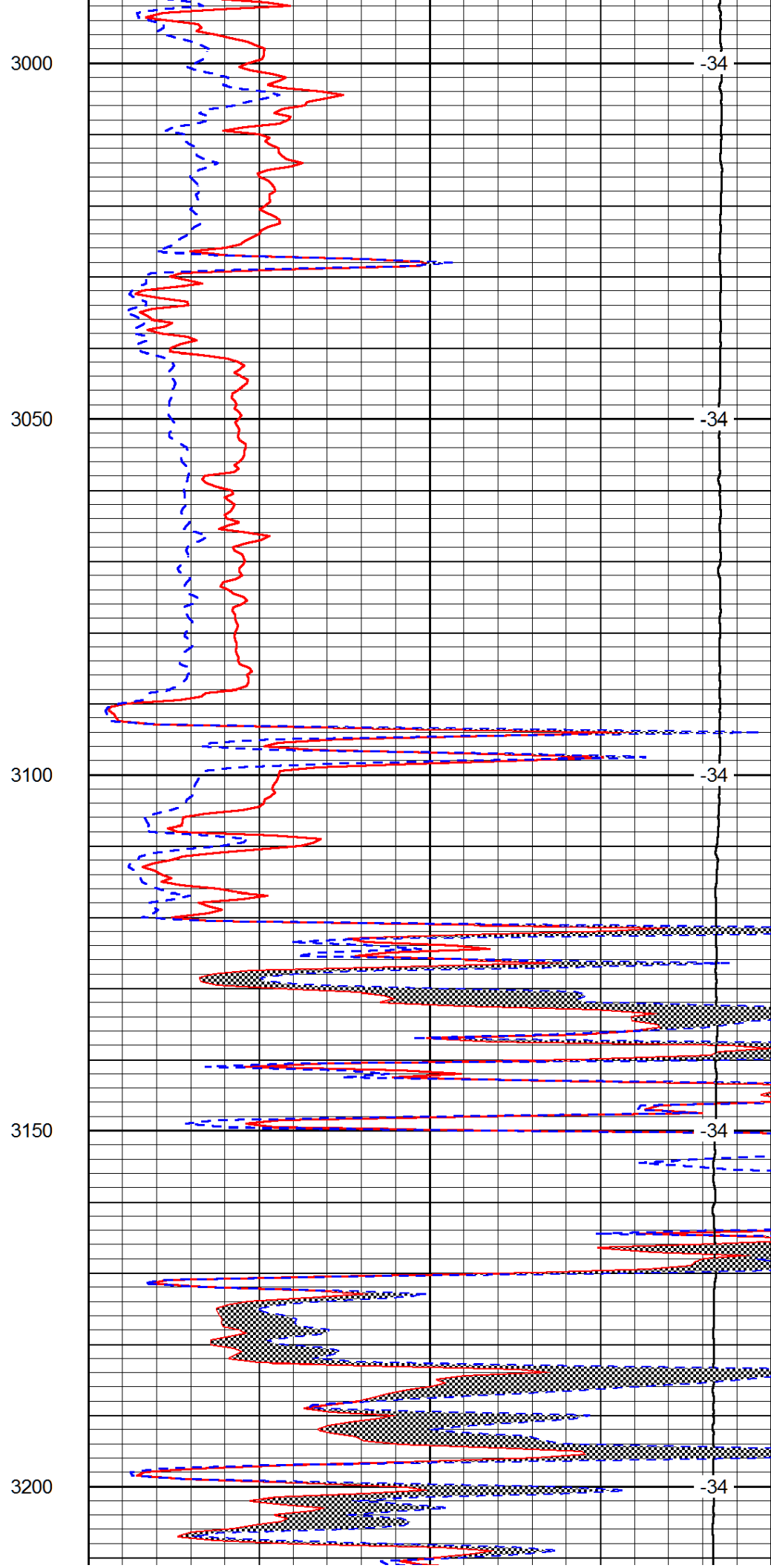
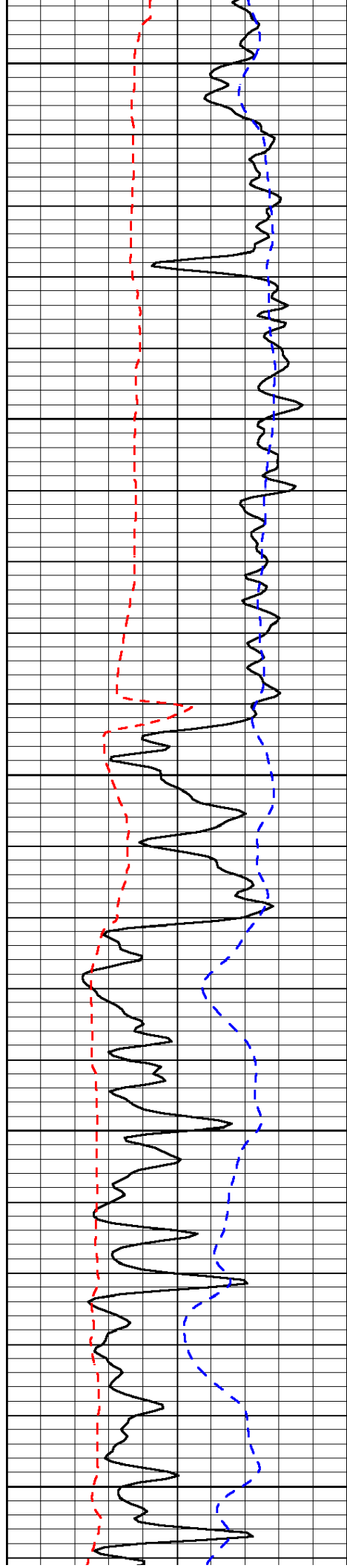
2800

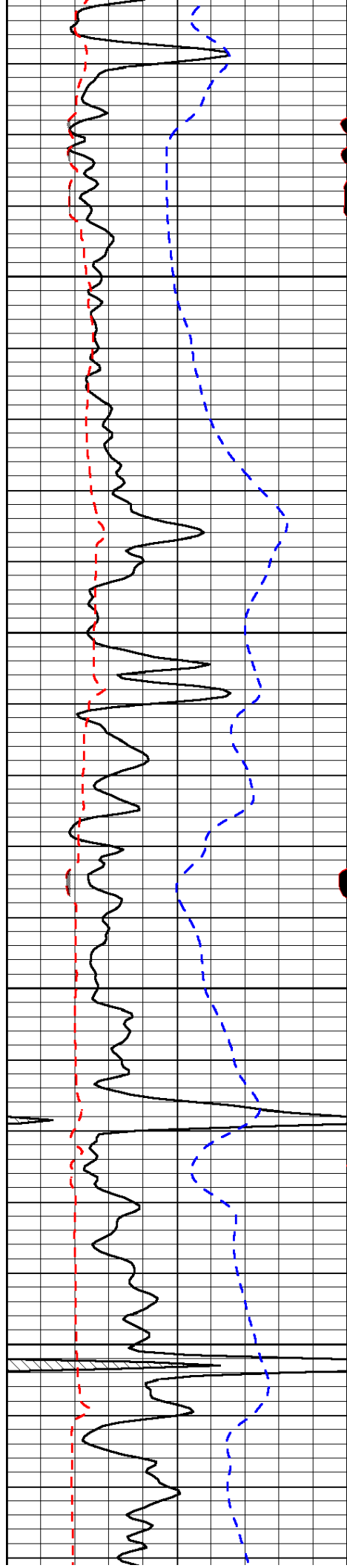
2850

2900

2950





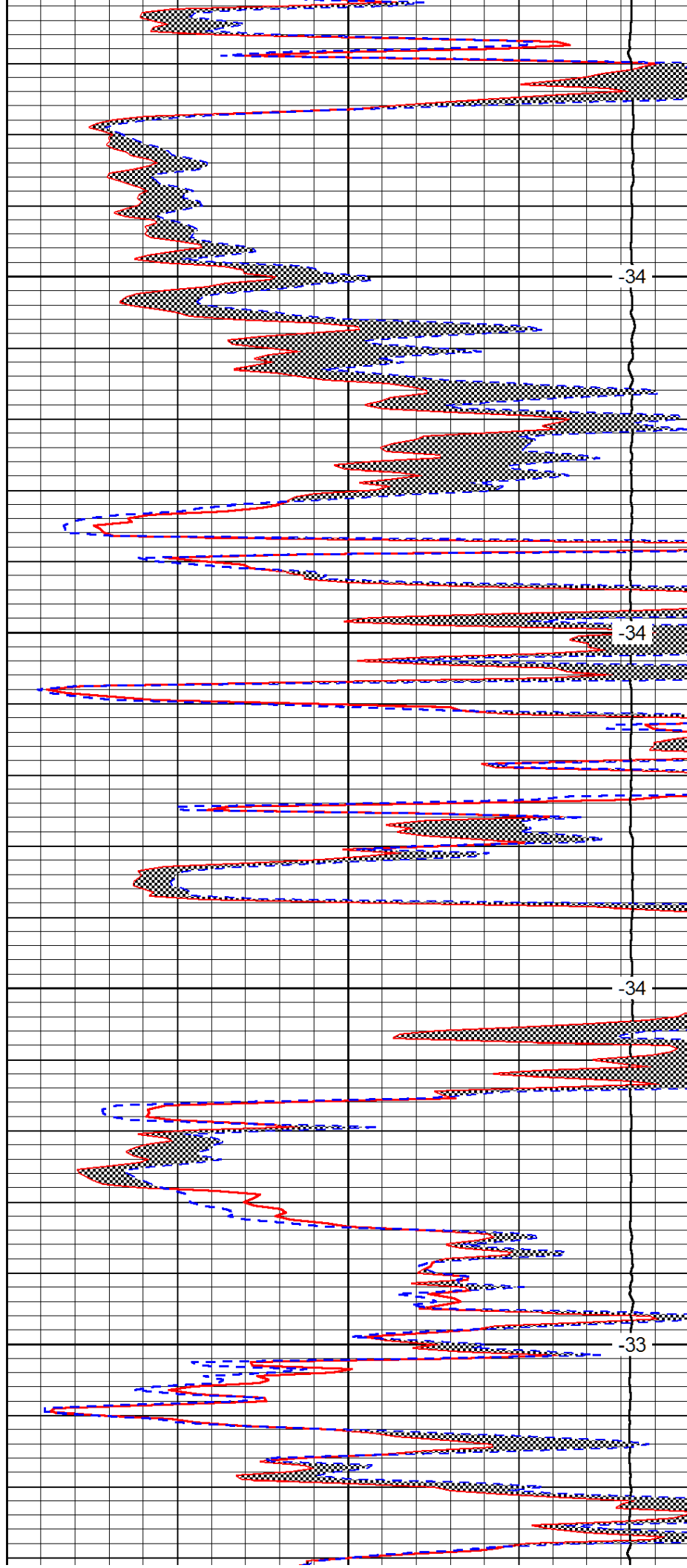


3250

3300

3350

3400

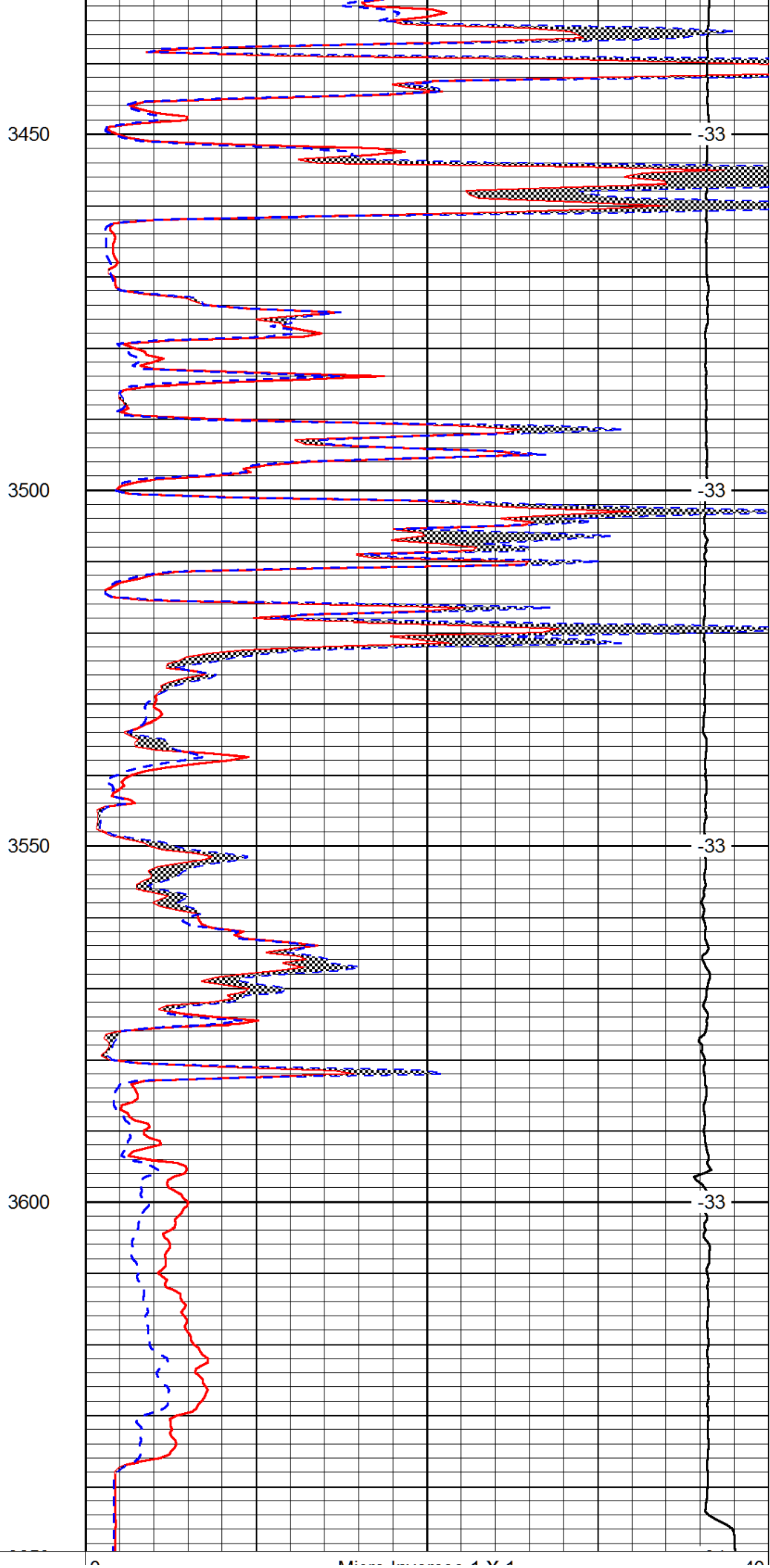
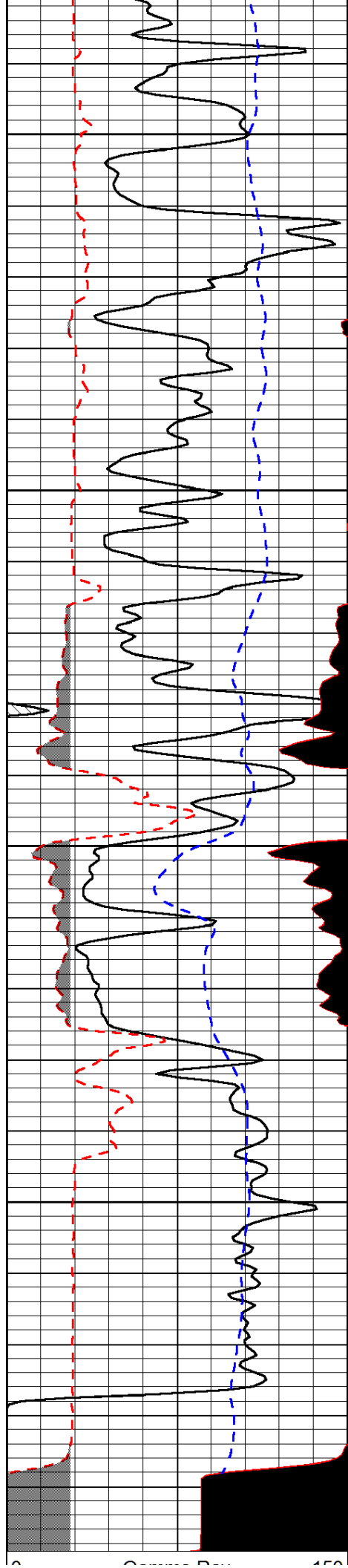


-34

-34

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