



Microresistivity Log

Pioneer Energy Services

API No.

15-155-21,701-00-00

Company **Novy Oil & Gas, Inc.**
Well **Withroder # 1**
Field **Zenith-Peace Creek**
County **Reno** State **Kansas**

Location **330' FNL & 2310' FEL**

Sec: **15** Twp: **23s** Rge: **10w**

Other Services
CNL/CDL
DIL

Elevation

K.B. 1778
D.F. 1770
G.L. 1770

Permanent Datum Ground Level Elevation 1770
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 7/9/2014

Run Number Two

Depth Driller 3860

Depth Logger 3850

Bottom Logged Interval 3849

Top Log Interval 3000

Casing Driller 8.625 @ 257

Casing Logger 217

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 7100

Density / Viscosity 9.5 48

pH / Fluid Loss 10.0 9.2

Source of Sample Flowline

Rm @ Meas. Temp .74 @ 74

Rmf @ Meas. Temp .56 @ 74

Rmc @ Meas. Temp 1.00 @ 74

Source of Rmf / Rmc Charts

Rm @ BHT .48 @ 115

Operating Rig Time 4 Hours

Max Rec. Temp. F 115

Equipment Number 108

Location Hays

Recorded By J. Long

Witnessed By Harley Sayles

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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.

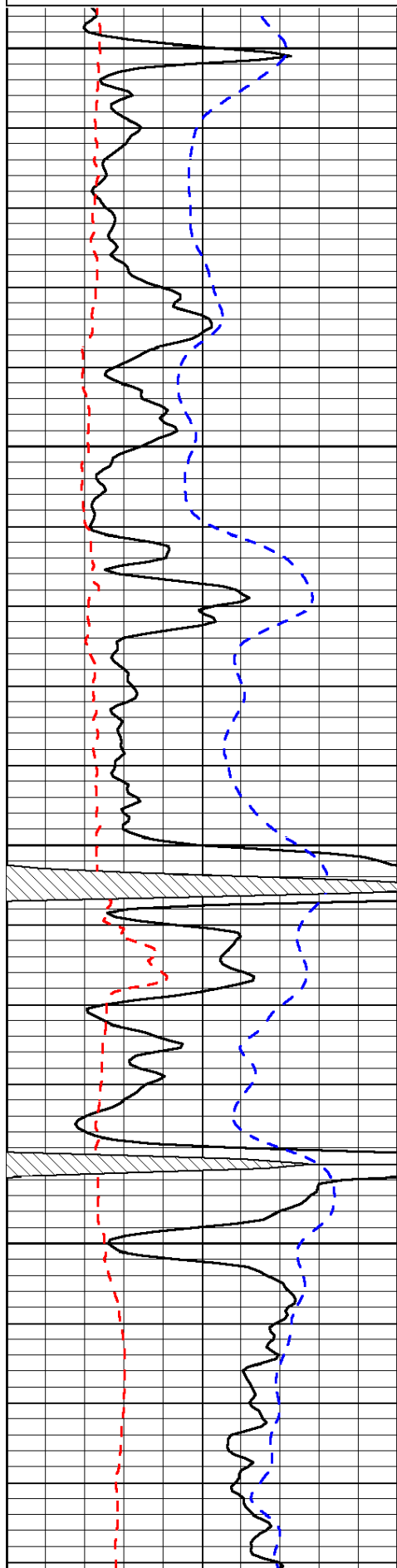
Comments

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

Sylvia Ks., Northeast to Netherland Rd., 5 3/4 North to 4th Rd., 1/2 West, South Into.

Database File: c:\warrior\data\novy_withroder # 1\novy_oil_withroder_1hd.db
Dataset Pathname: DIL\novystck
Presentation Format: micro
Dataset Creation: Wed Jul 09 02:04:36 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



3000

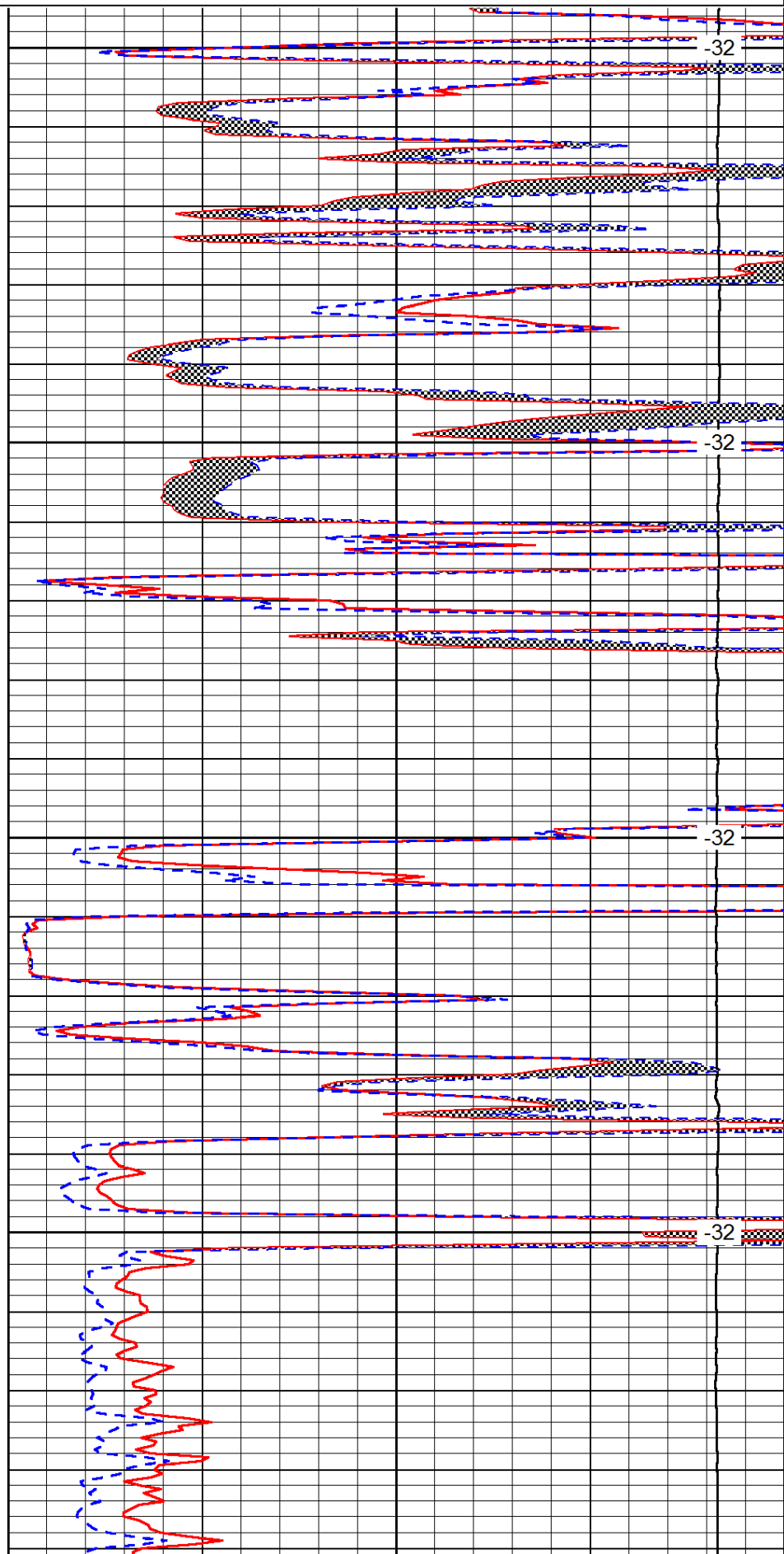
3050

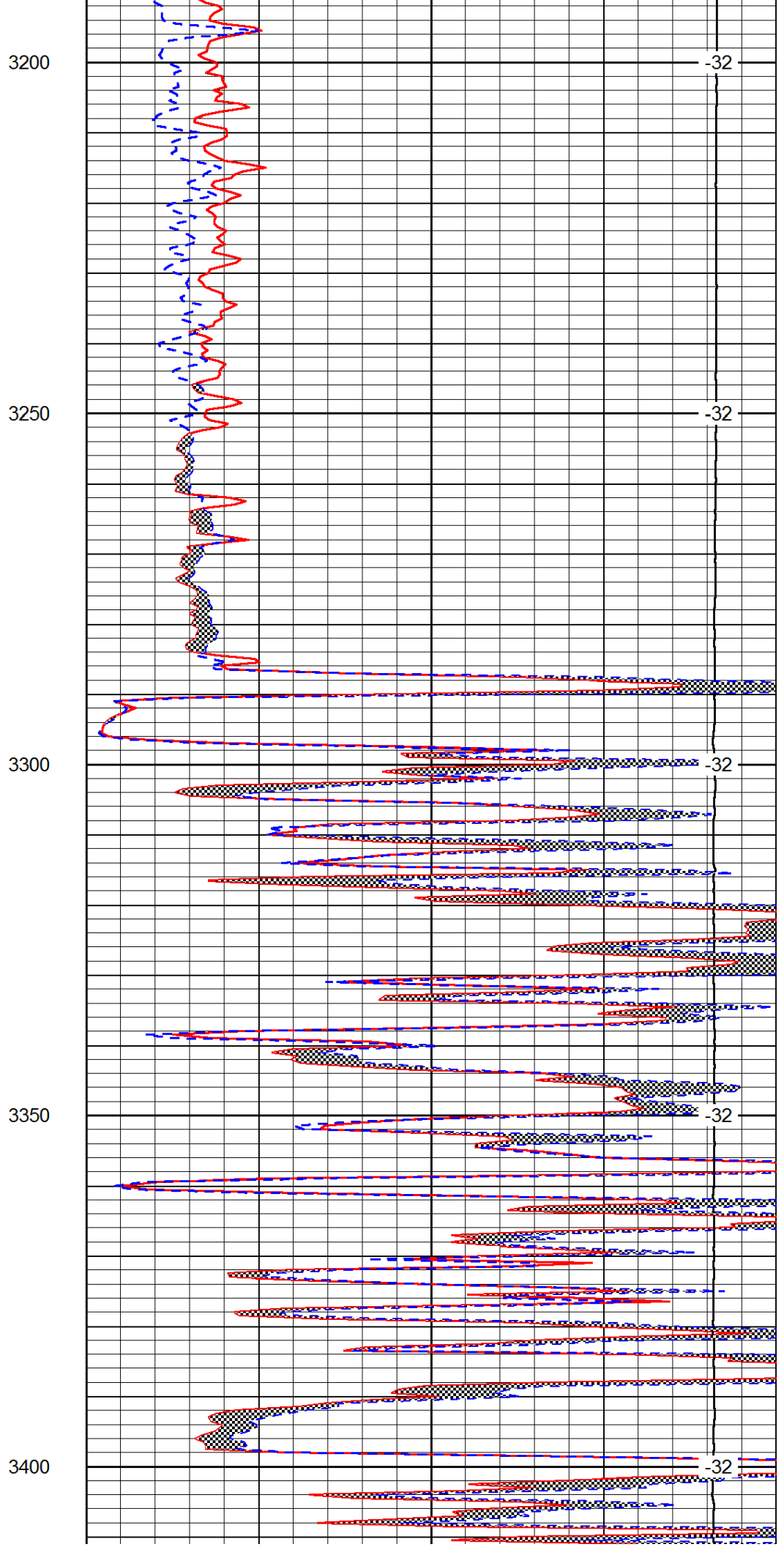
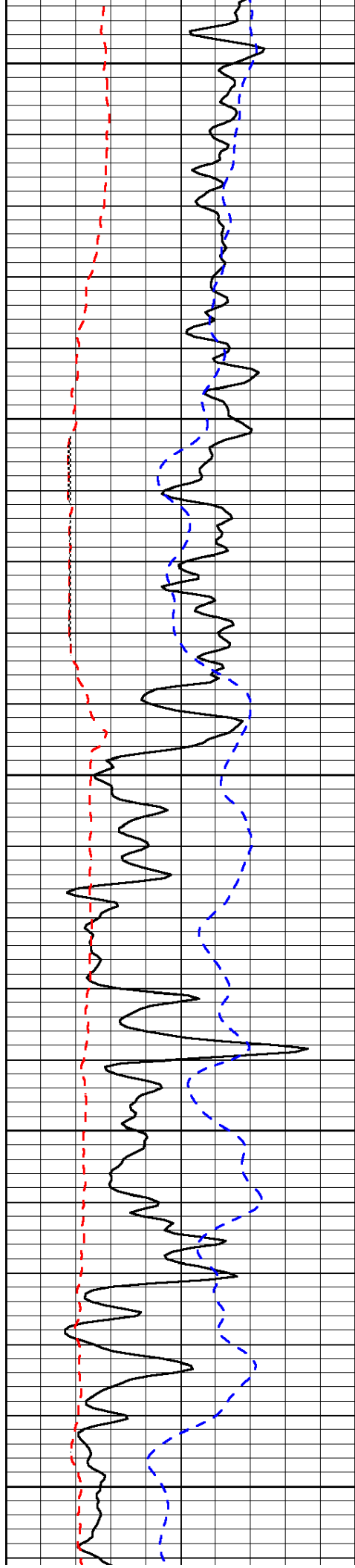
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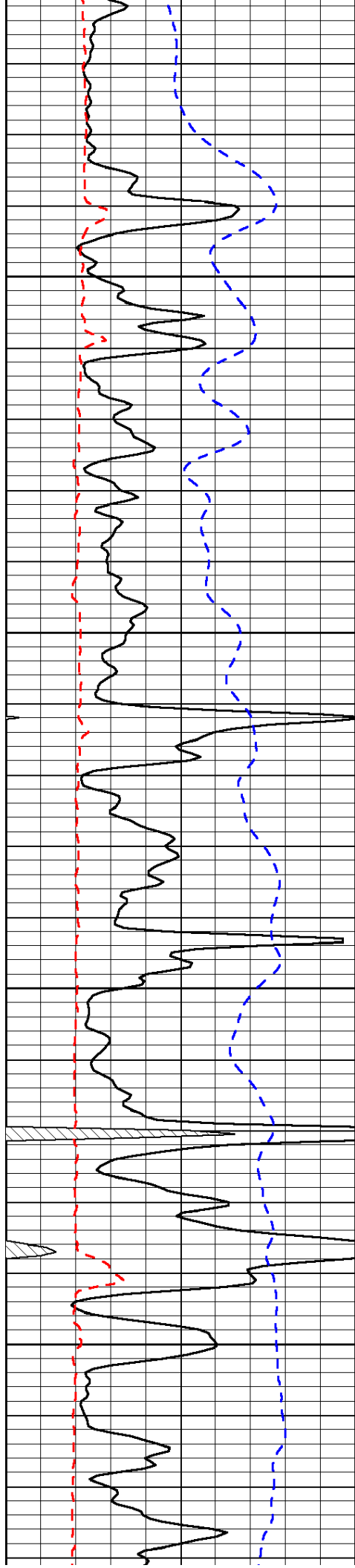
3150

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

LSPD





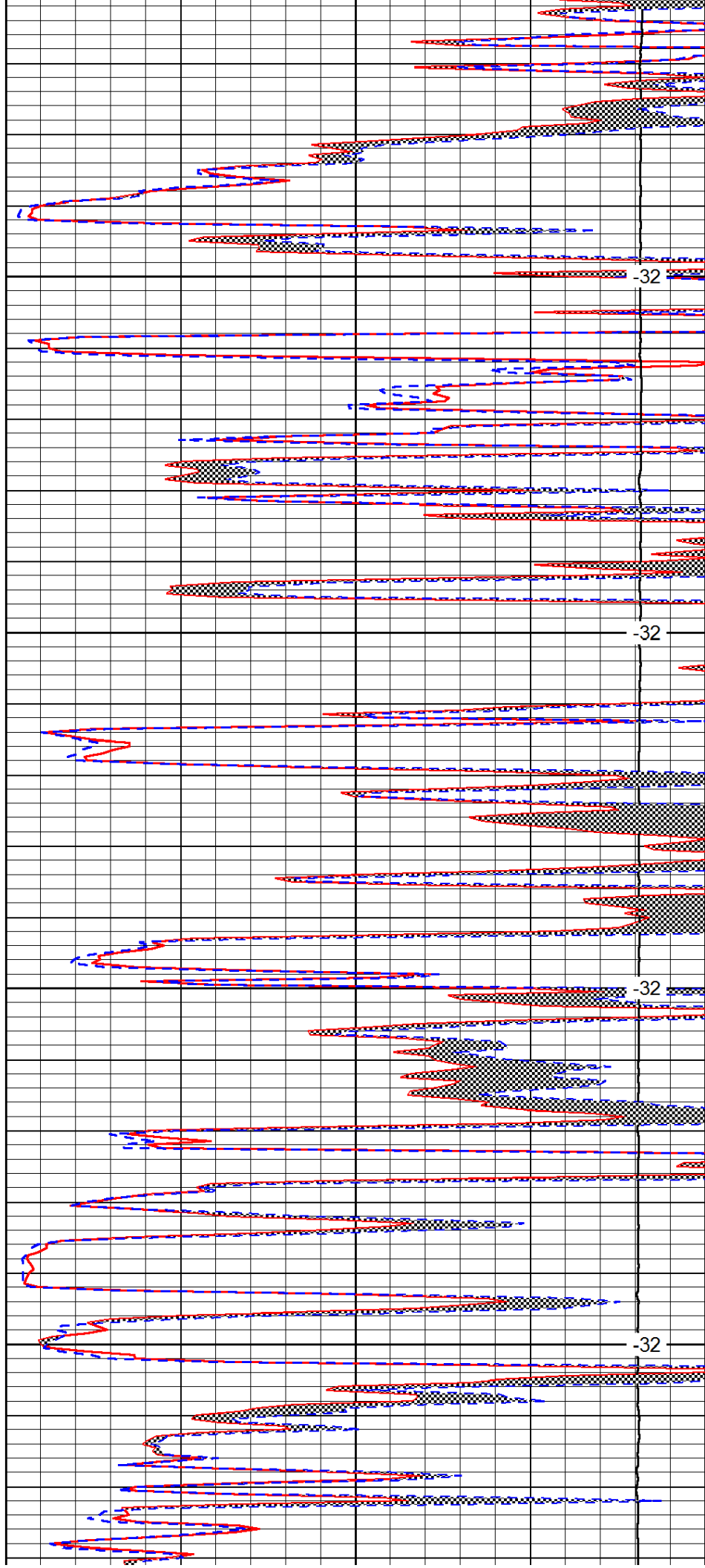


3450

3500

3550

3600

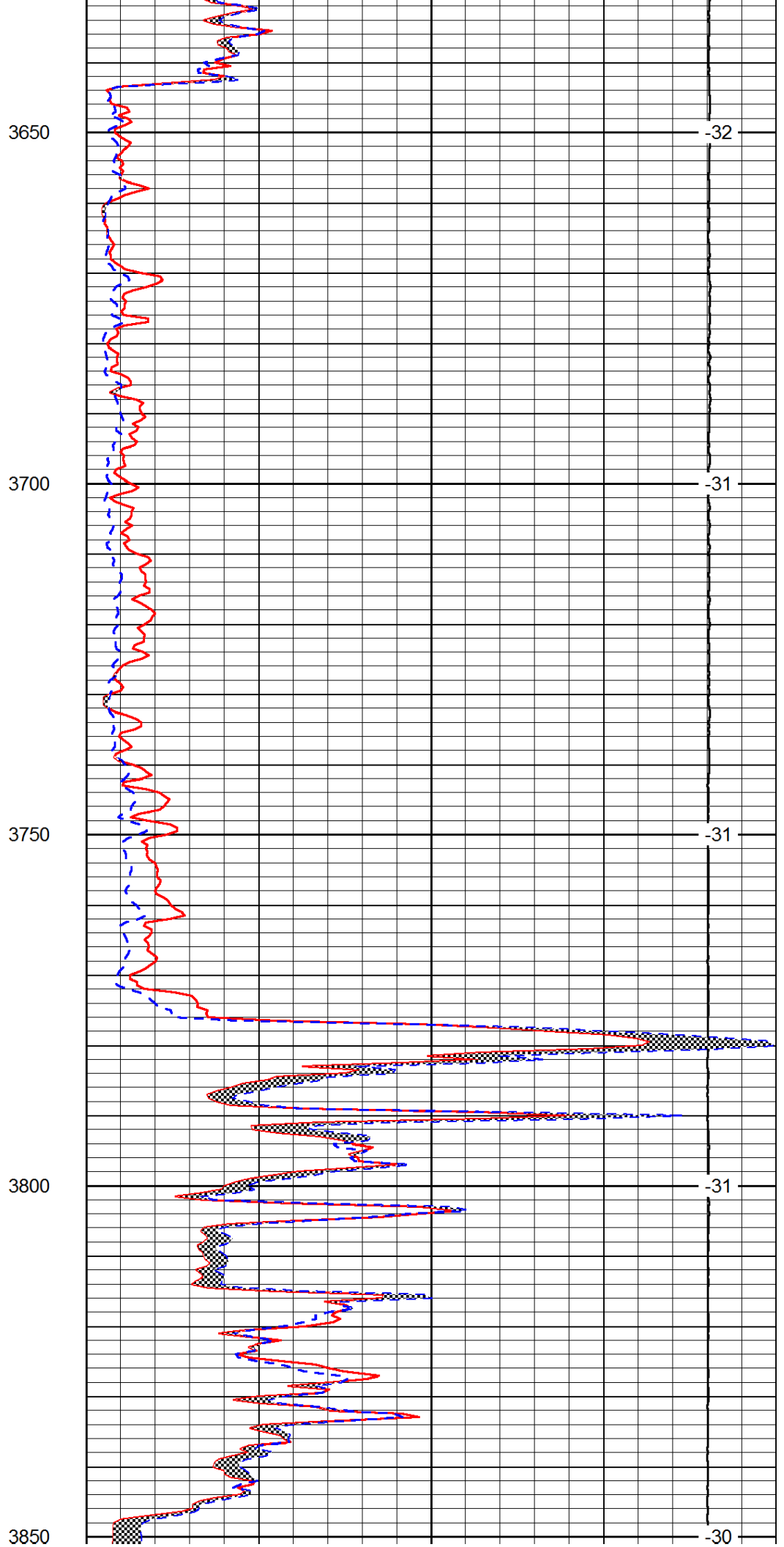
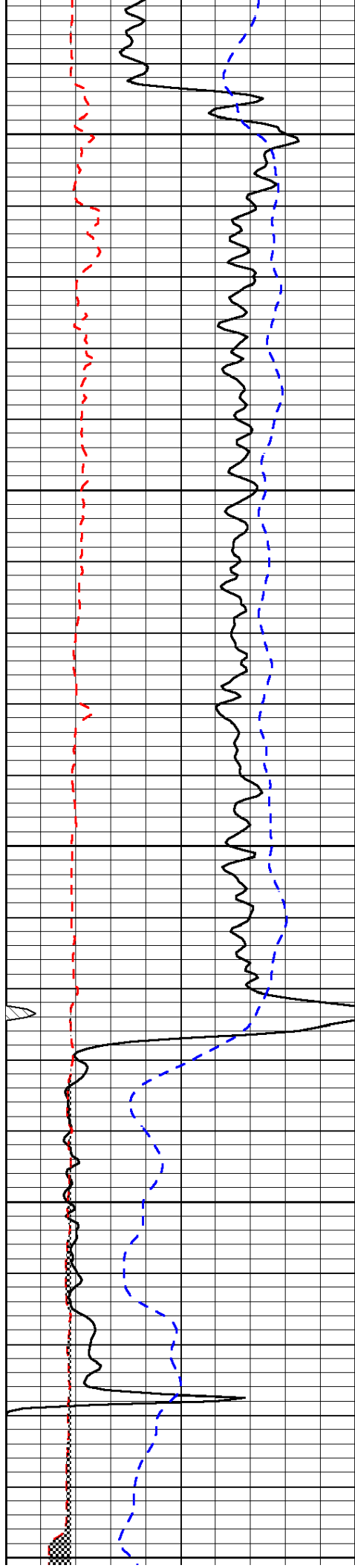


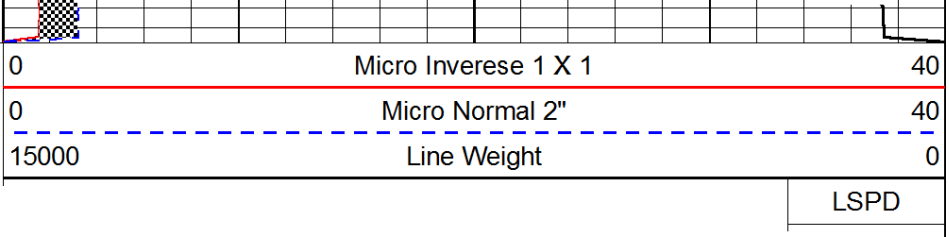
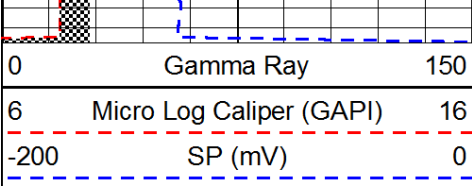
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LSPD