



Pioneer Energy Services

Microresistivity Log

15-109-21,122-00-00

API No.

Company **G. L. Allison Oil Operations, Inc.**

Well **Younkin #21-TATE**

Field **Younkin West**

County **Logan** State

Kansas

Location **2310' FNL & 330' FWL**

Sec: **21** Twp: **12 S** Rge: **32 W**

Other Services
CNL/CDL
DIL

Permanent Datum **Ground Level** Elevation **3041**

Log Measured From **Kelly Bushing** **7** Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Elevation
K.B. 3048
D.F. 3041
G.L. 3041

Date	9/09/2012
Run Number	Two
Depth Driller	4740
Depth Logger	4742
Bottom Logged Interval	4741
Top Log Interval	3800
Casing Driller	8.625 @ 267
Casing Logger	262
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity,ppm CL	2,600
Density / Viscosity	9.3 57
pH / Fluid Loss	8.5 10.0
Source of Sample	Flowline
Rm @ Meas. Temp	.85 @ 65
Rmf @ Meas. Temp	.64 @ 65
Rmc @ Meas. Temp	1.15 @ 65
Source of Rmf / Rmc	Charts
Rm @ BHT	.44 @ 125
Operating Rig Time	4 1/2 Hours
Max Rec. Temp. F	125
Equipment Number	91
Location	Hays
Recorded By	K. Bange
Witnessed By	Greg Allison

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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

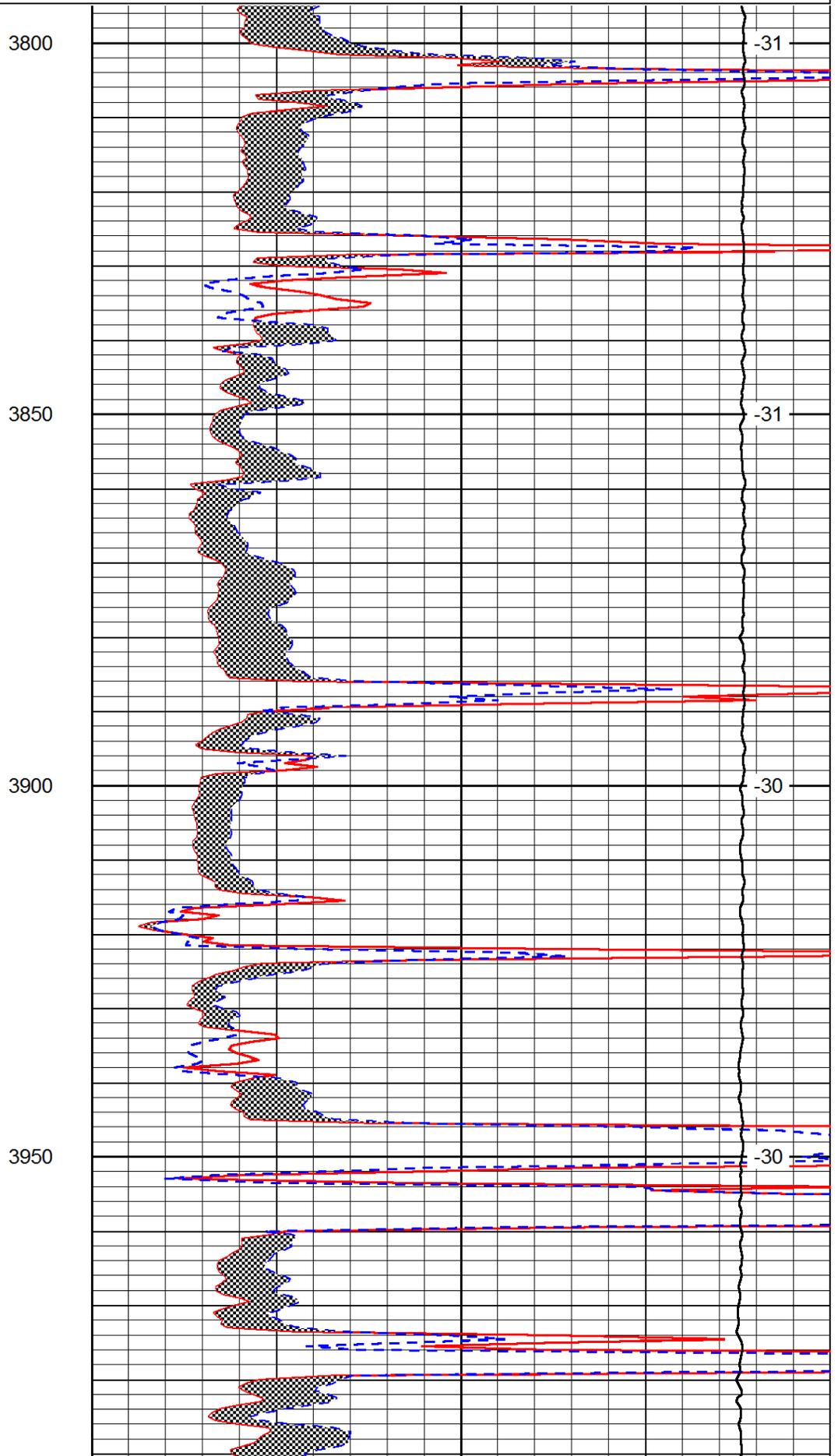
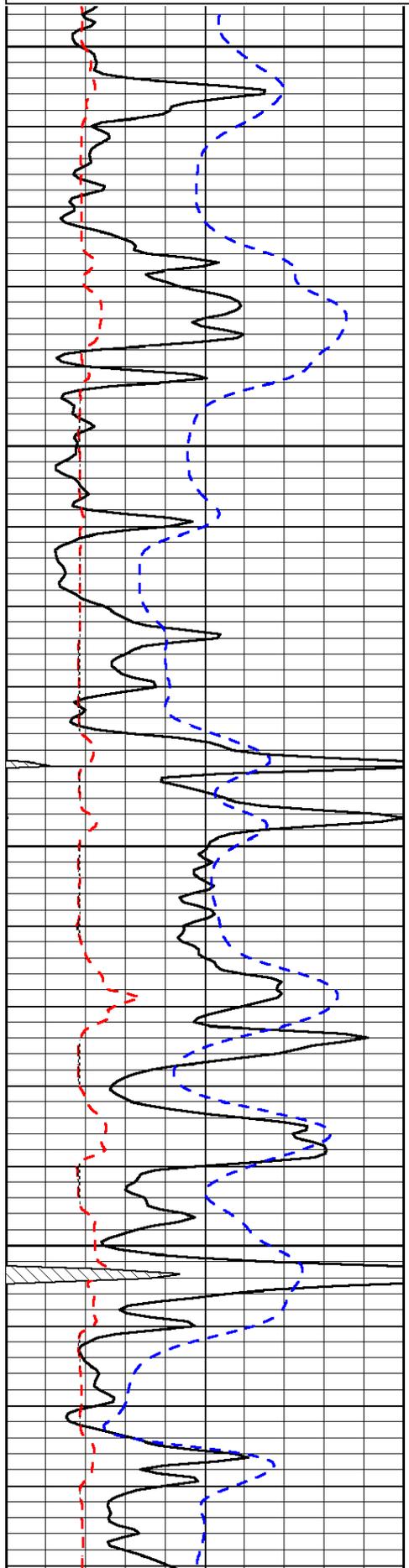
Thank you for using Pioneer Energy Services
 www.pioneer.com
 785 625 3858
 Oakley, 8 S to Ute rd,
 1 W, 1/2 N,
 3/4 W, N into

Database File:	c:\warrior\data\g. l. allison_youkin #21-tate\glallison090912hd.db
Dataset Pathname:	dil\glstack
Presentation Format:	micro
Dataset Creation:	Sun Sep 09 11:07:44 2012
Charted by:	Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

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

LSPD



3800

-31

3850

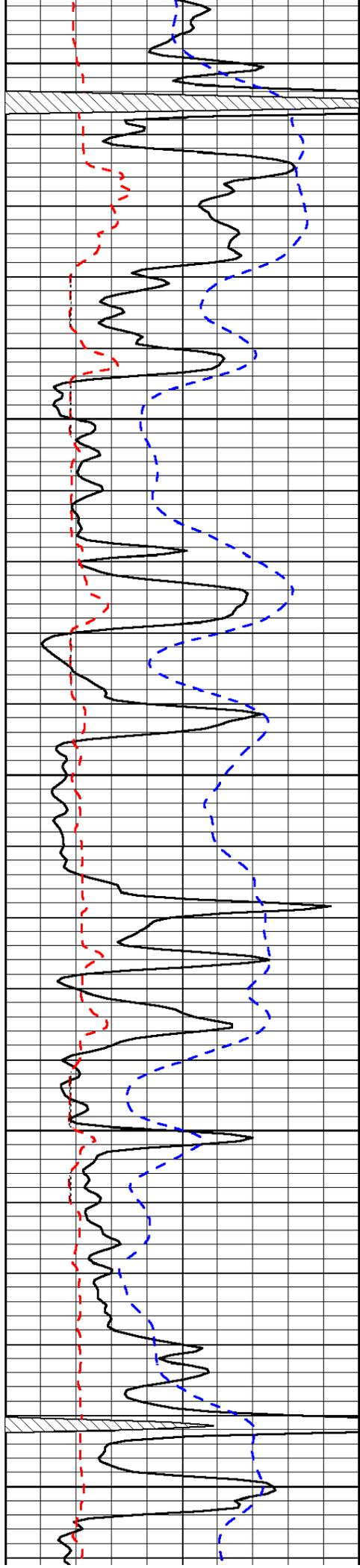
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3900

-30

3950

-30



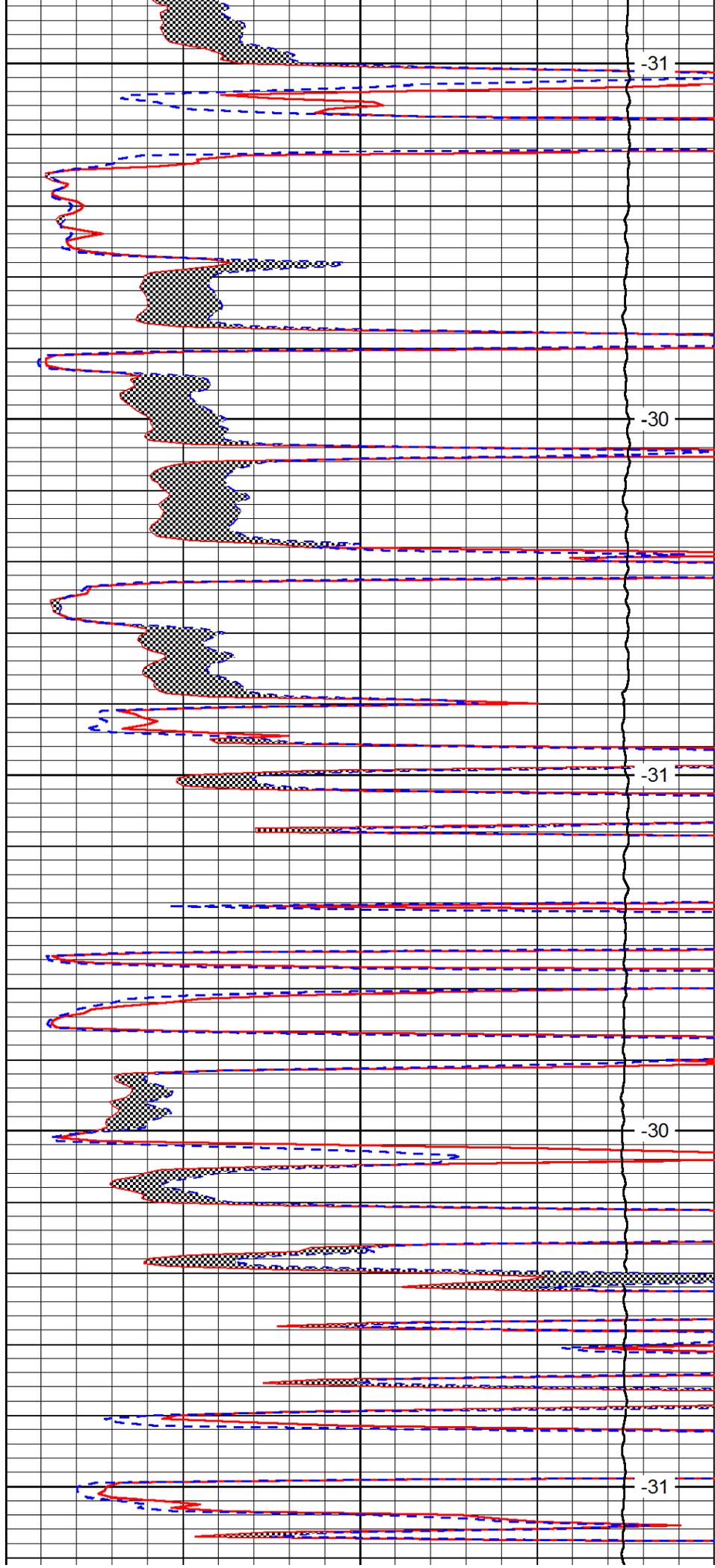
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4050

4100

4150

4200



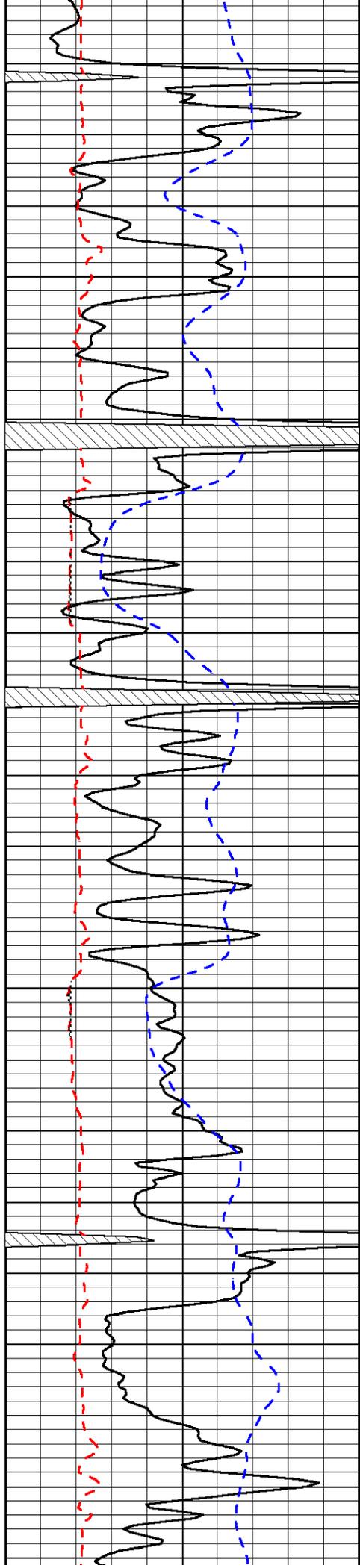
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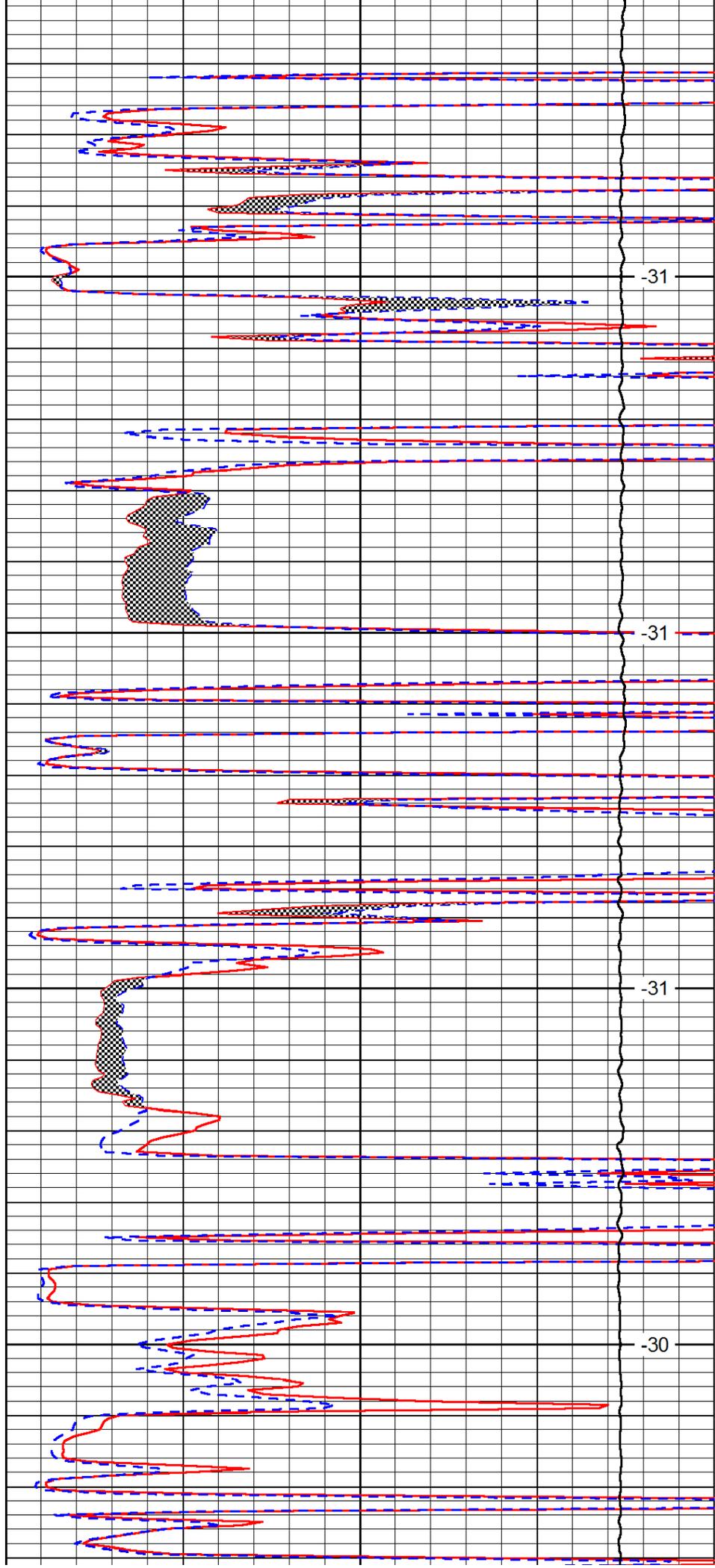


4250

4300

4350

4400

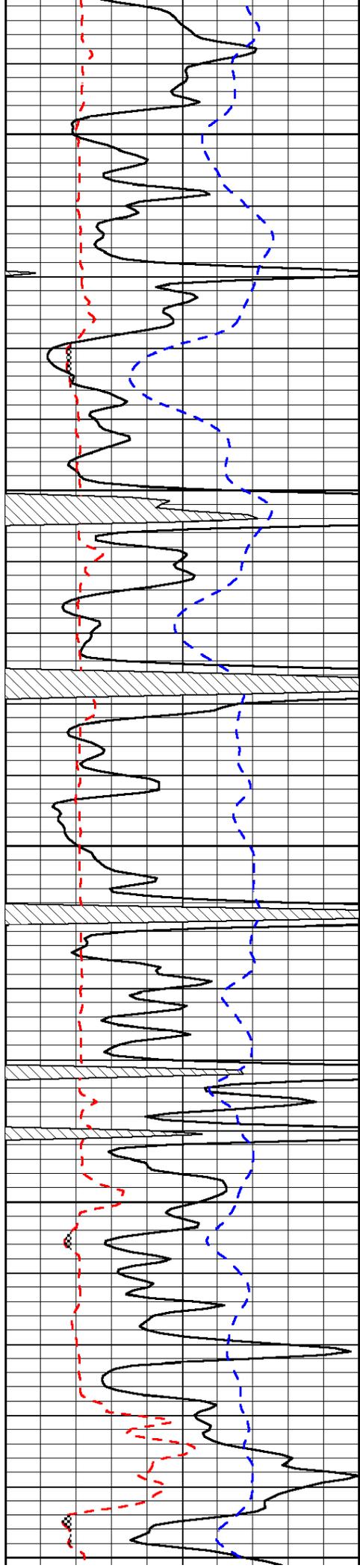


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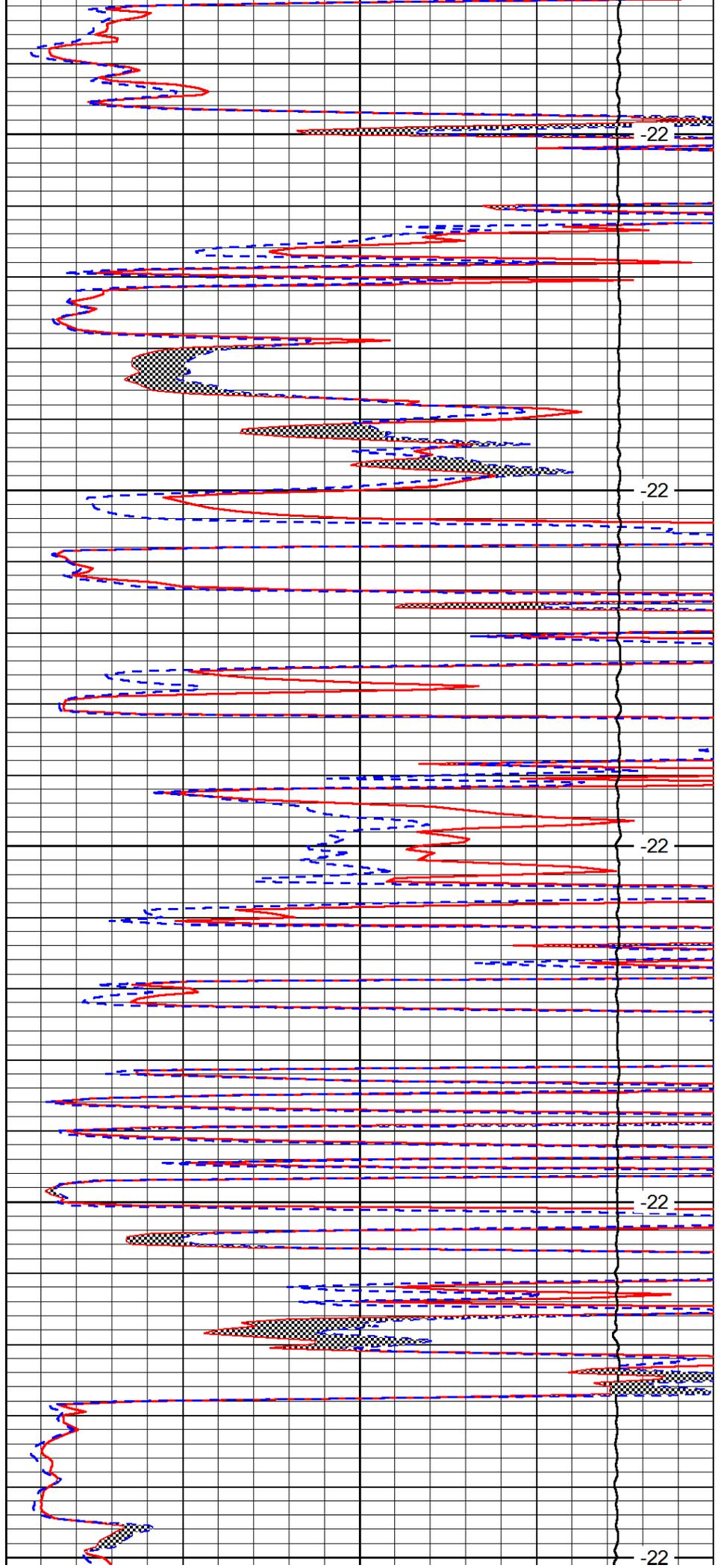
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4500

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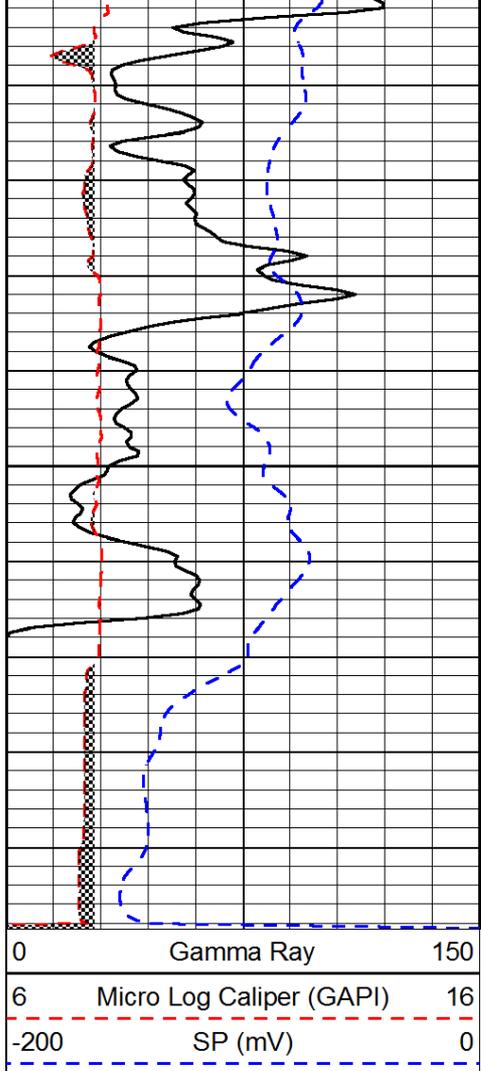
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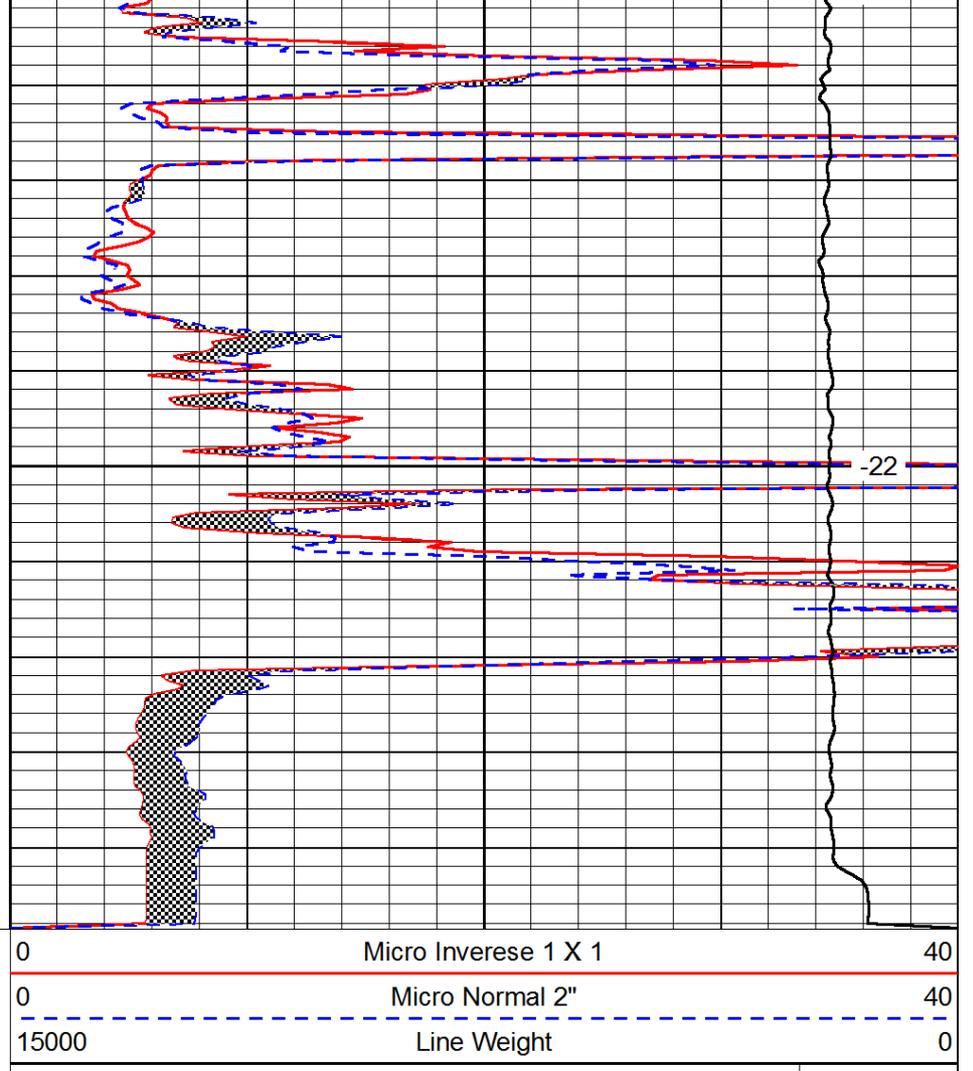
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4700



LSPD