



Pioneer Energy Services

Microresistivity Log

API No.

15-039-21,181-00-00

Company **Murfin Drilling Company, Inc.**

Well **Ryser #1-24**

Field

County **Decatur** State

Kansas

Location

760' FSL & 1010' FEL

Sec: **24**

Twp: **5S**

Rge: **26W**

Elevation

Permanent Datum **Ground Level** Elevation **2457**
Log Measured From **Kelly Bushing** 11 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Other Services
CNL/CDL
DIL/BHCS

Date

5/29/2013

Run Number

Two

Depth Driller

3835

Depth Logger

3834

Bottom Logged Interval

3833

Top Log Interval

3150

Casing Driller

8.625 @ 217

Casing Logger

218

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1,000

Density / Viscosity

9.1 69
11.5 5.6

pH / Fluid Loss

Flowline

Source of Sample

1.45 @ 71

Rm @ Meas. Temp

1.09 @ 71

Rmf @ Meas. Temp

1.96 @ 71

Rmc @ Meas. Temp

Charts

Source of Rmf / Rmc

.9 @ 114

Rm @ BHT

4 1/2 Hours

Operating Rig Time

114

Max Rec. Temp. F

17

Equipment Number

Hays

Location

C. Desaire

Recorded By

Robert Hendrix

Witnessed By

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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.

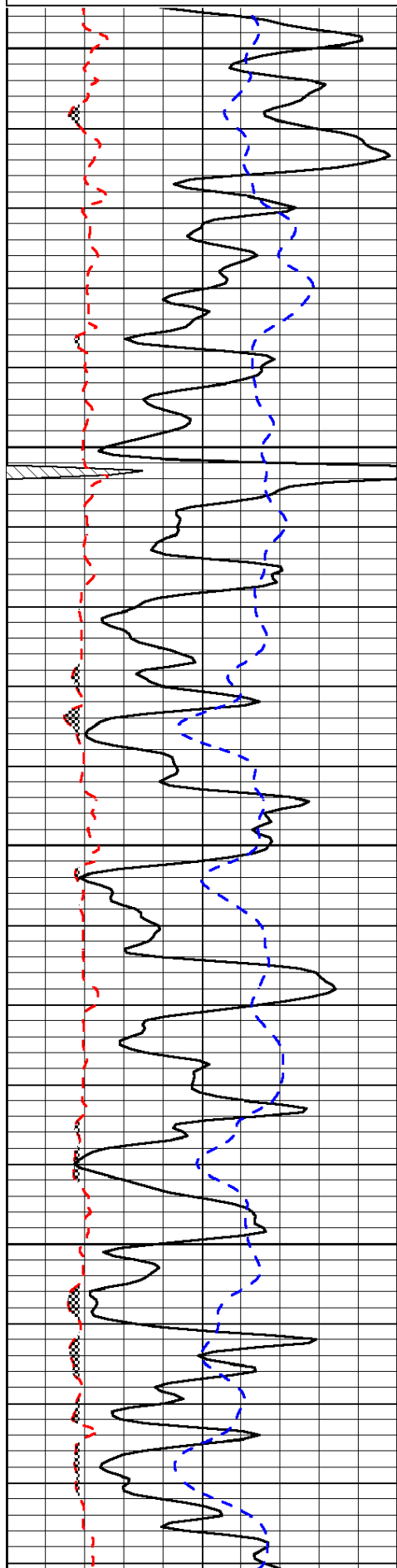
Comments

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

Lenora KS, W on Hwy 9 to W15Ln Rd,
N, W Into

Database File: c:\warrior\data\murfin_ryser #1-24\murfhd.db
Dataset Pathname: dil\murfstk
Presentation Format: micro
Dataset Creation: Wed May 29 09:06:36 2013
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

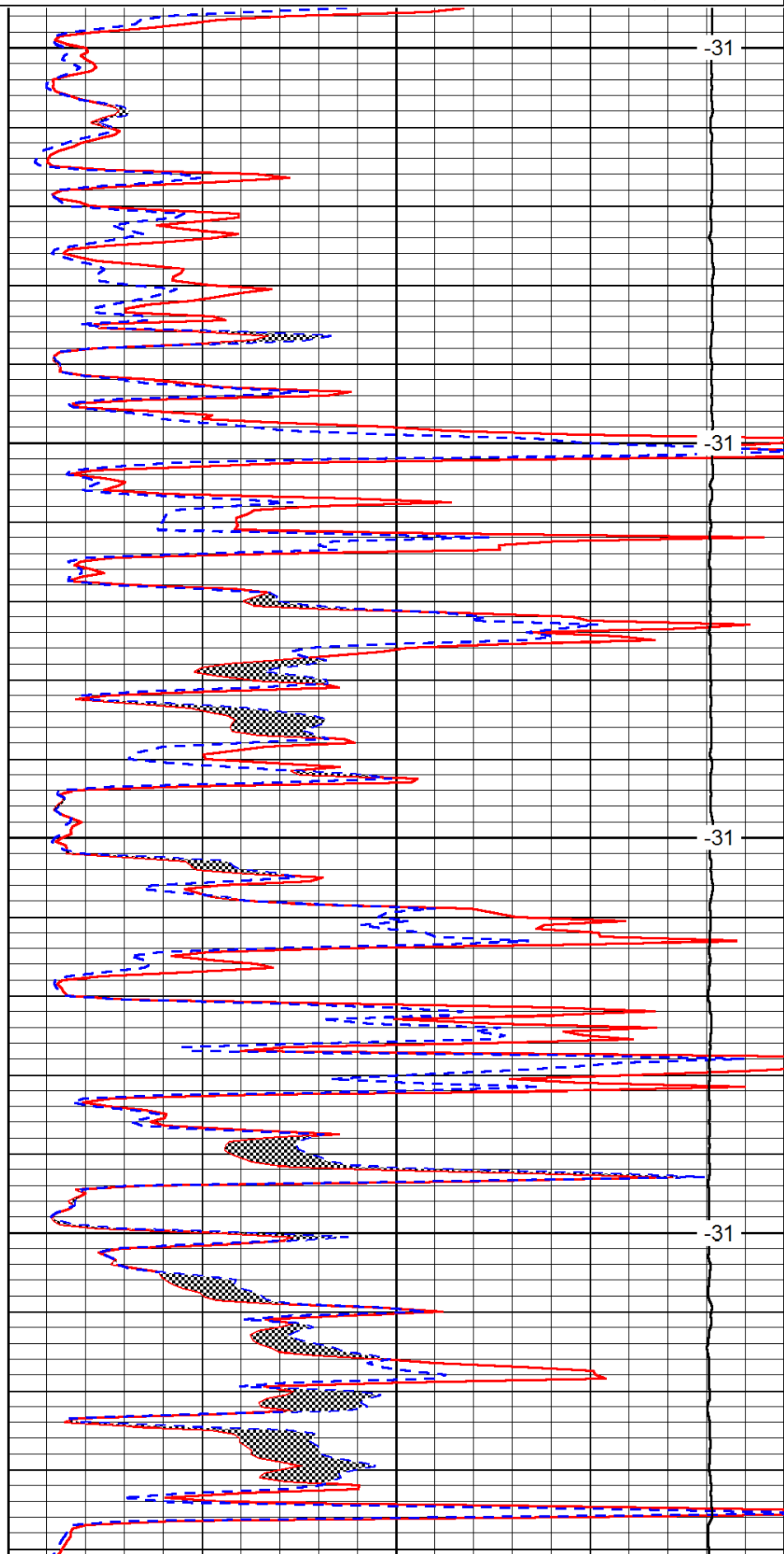


3150

3200

3250

3300

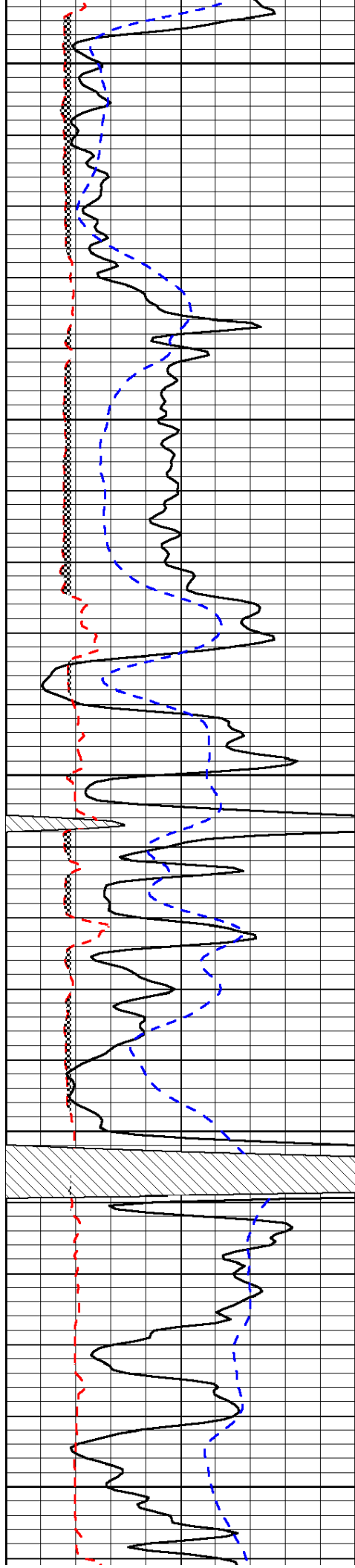


-31

-31

-31

-31



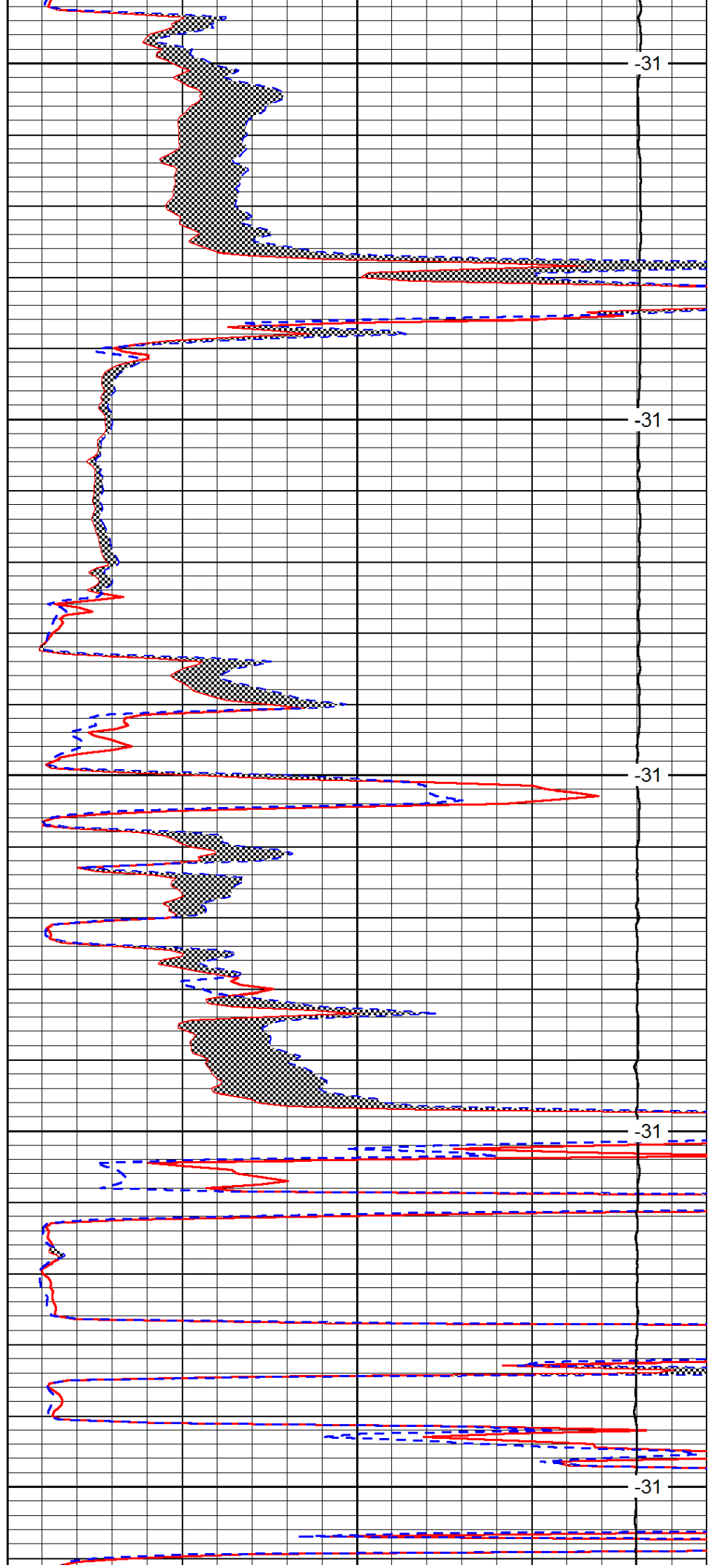
3350

3400

3450

3500

3550



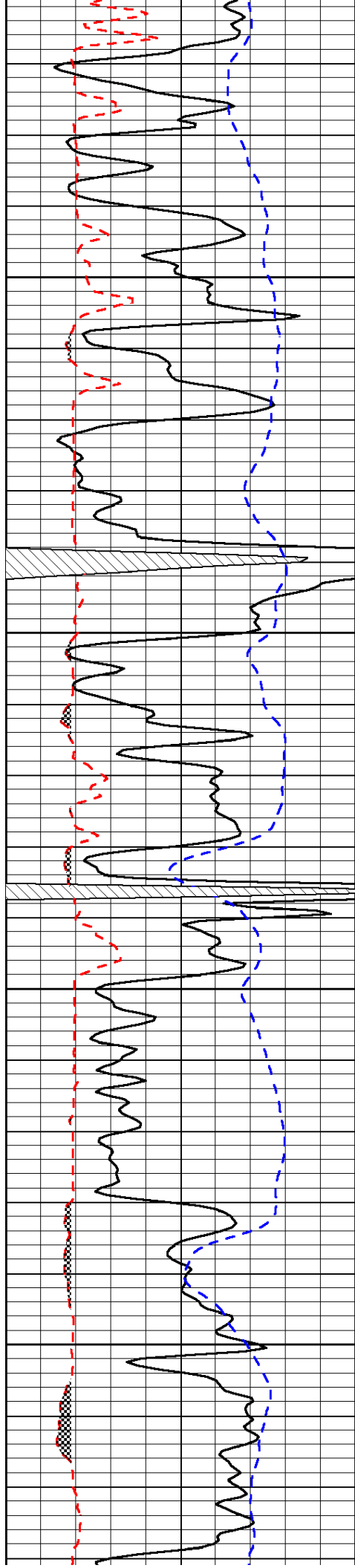
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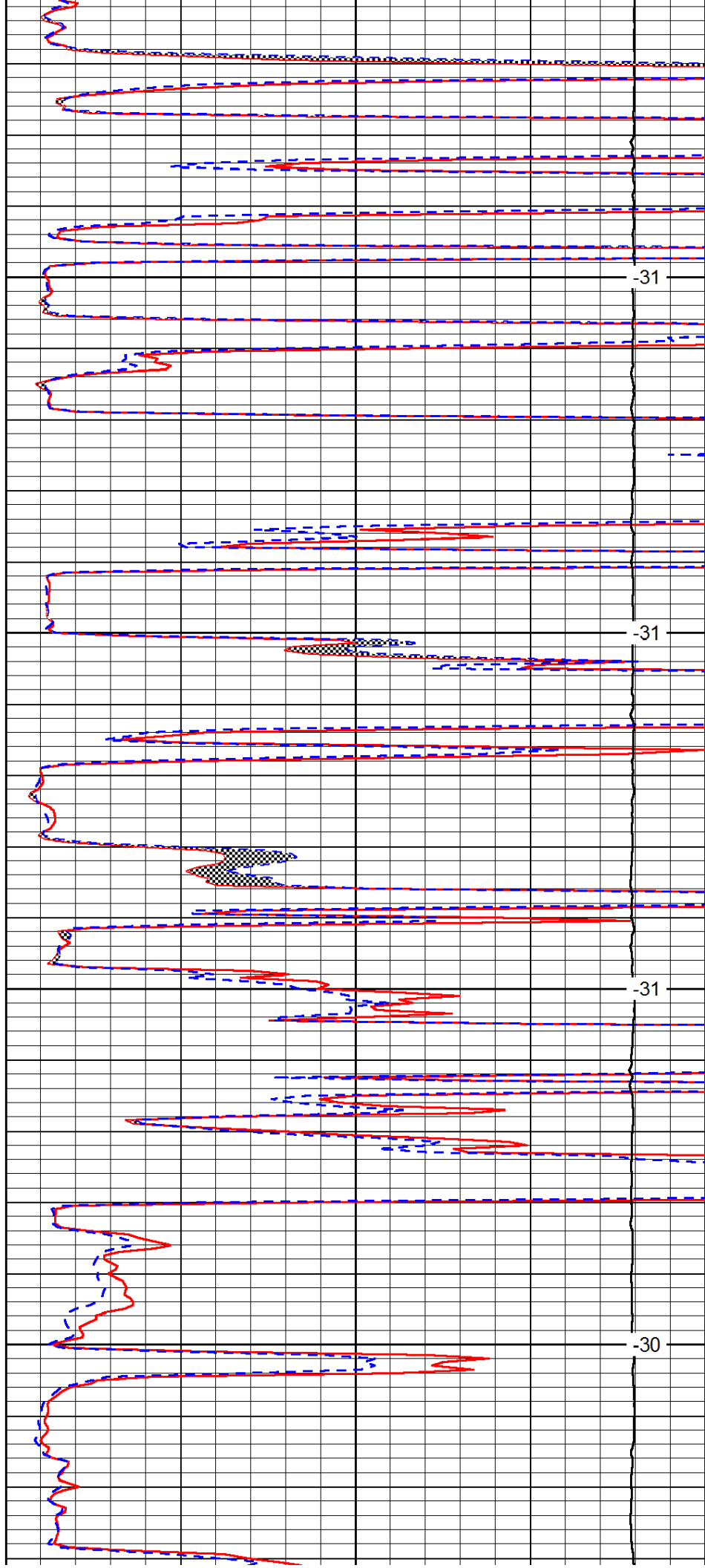


3600

3650

3700

3750

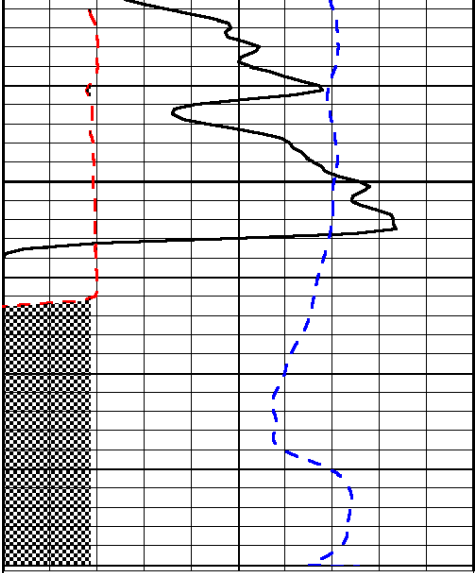


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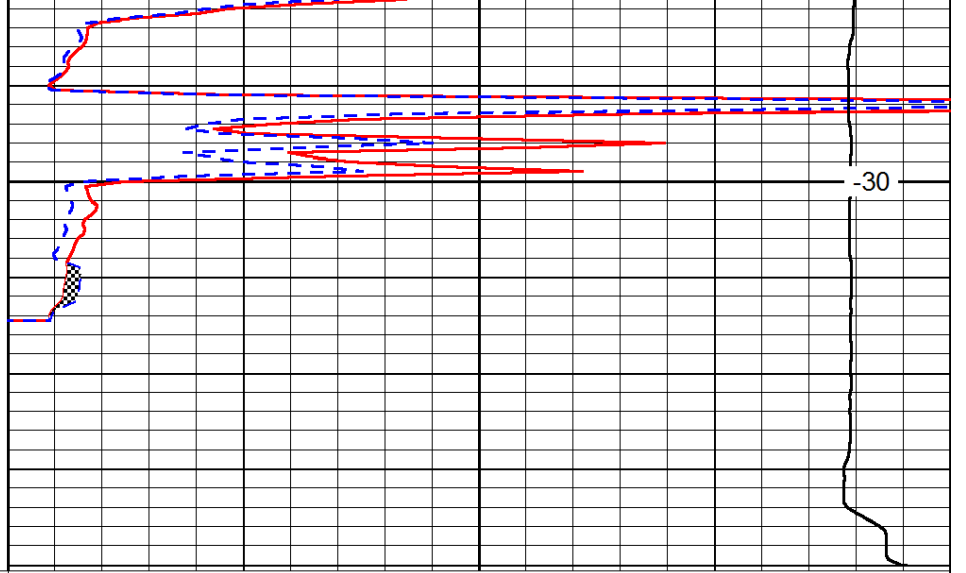
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-30



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

3800



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

LSPD