



Pioneer Energy Services

Microresistivity Log

15-023-21,380-00-00

API No.

Company **Murfin Drilling Company, Inc.**

Well **Ivalee No. 1-4**

Field **Jones Canyon**

County **Cheyenne** State **Kansas**

Location **990' FSL & 1,980' FWL**

Other Services
DIL

Sec: **4** Twp: **1S** Rge: **37W**

Permanent Datum **Ground Level** Elevation **3157**

Log Measured From **Kelly Bushing** 13 Ft. Above Perm. Datum

Elevation
K.B. 3170
D.F. 3170
G.L. 3157

Date **2/22/2014**

Run Number **One**

Depth Driller **4719**

Depth Logger **4714**

Bottom Logged Interval **4713**

Top Log Interval **4020**

Casing Driller **8.625 @ 211**

Casing Logger **214**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity,ppm CL **600**

Density / Viscosity **9.1 60**

pH / Fluid Loss **10.5 6.0**

Source of Sample **Flowline**

Rm @ Meas. Temp **.90 @ 62**

Rmf @ Meas. Temp **.68 @ 62**

Rmc @ Meas. Temp **1.22 @ 62**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.45 @ 123**

Operating Rig Time **3 Hours**

Max Rec. Temp. F **123**

Equipment Number **108**

Location **Hays**

Recorded By **J. Long**

Witnessed By **Keith Reavis**

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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.pioneerenergy.com
 785 625 3858

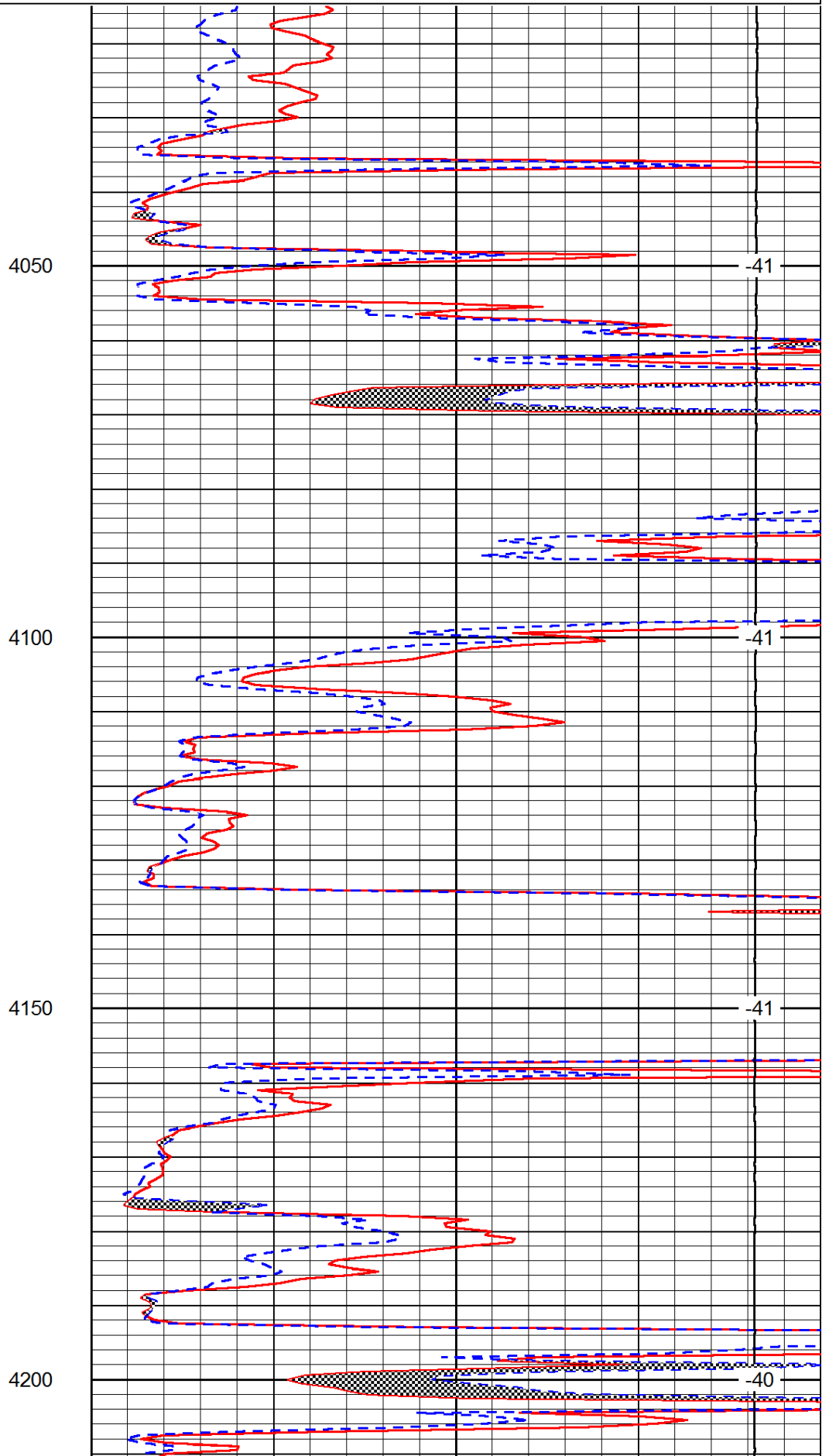
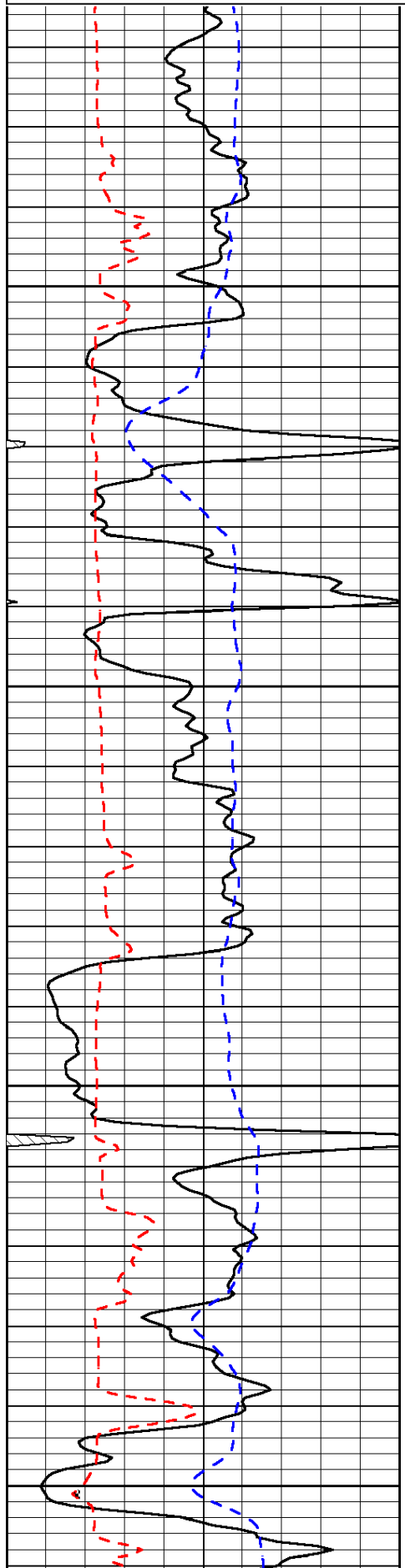
Bird City, North to State Line, 2 3/4 East, 3/4 South, East Into

Database File: c:\warrior\data\murfin_ivalee no. 1-4\murfin_ivalee_1-4hd.db
 Dataset Pathname: dil/murfmldl
 Presentation Format: micro
 Dataset Creation: Sun Feb 23 00:24:53 2014
 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



4050

-41

4100

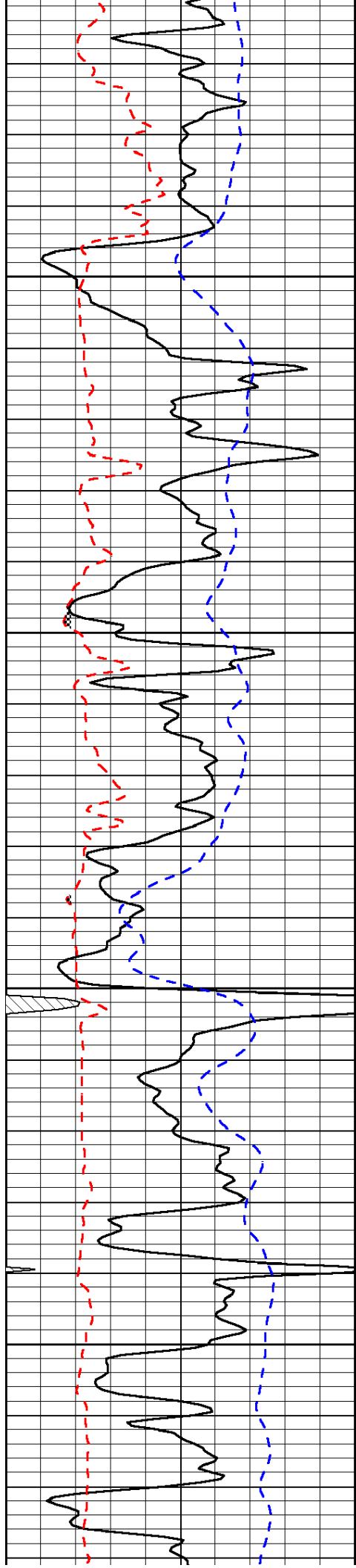
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4150

-41

4200

-40

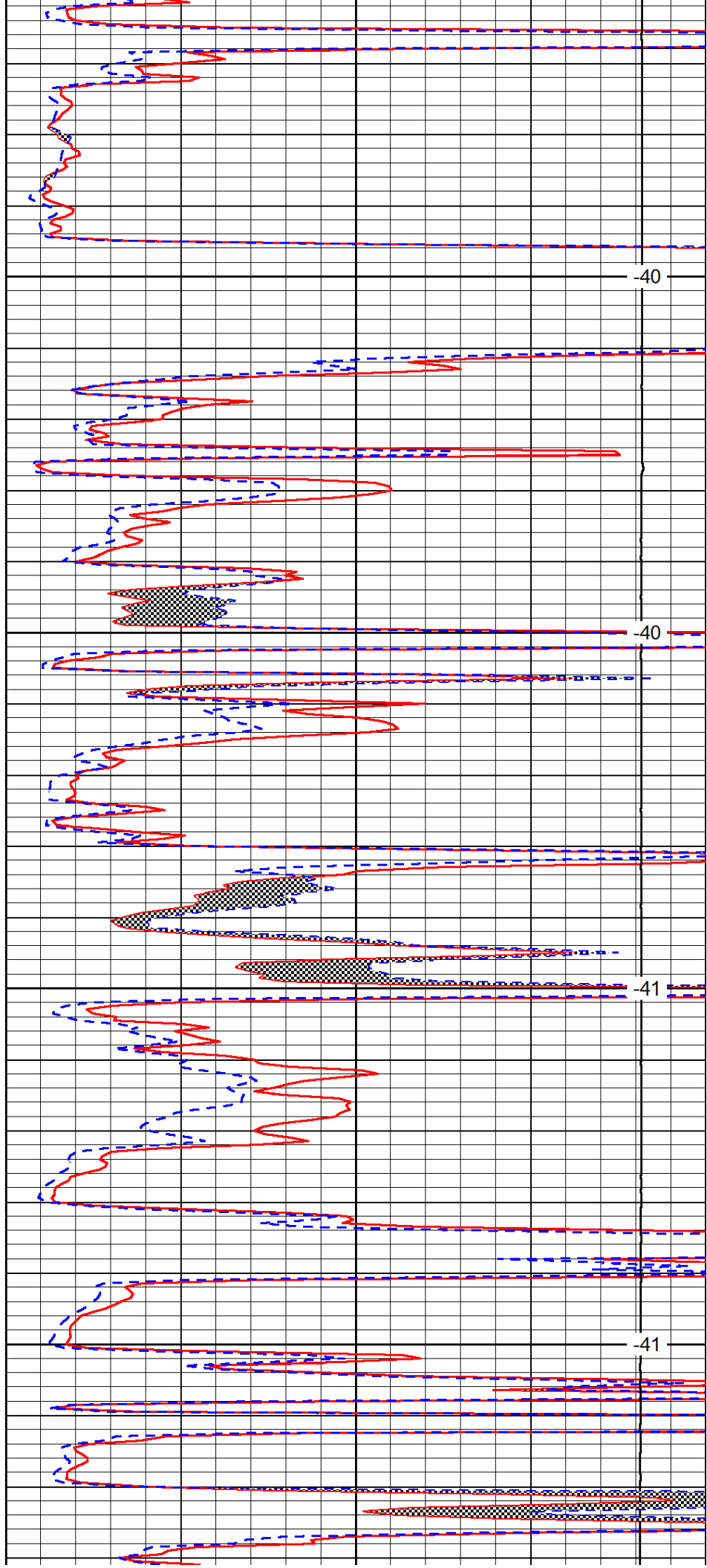


4250

4300

4350

4400

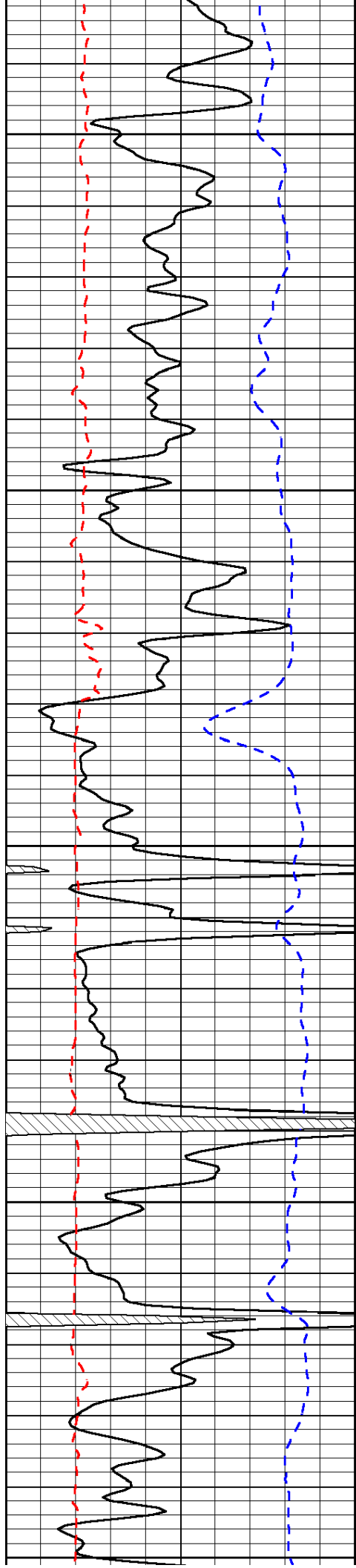


-40

-40

-41

-41



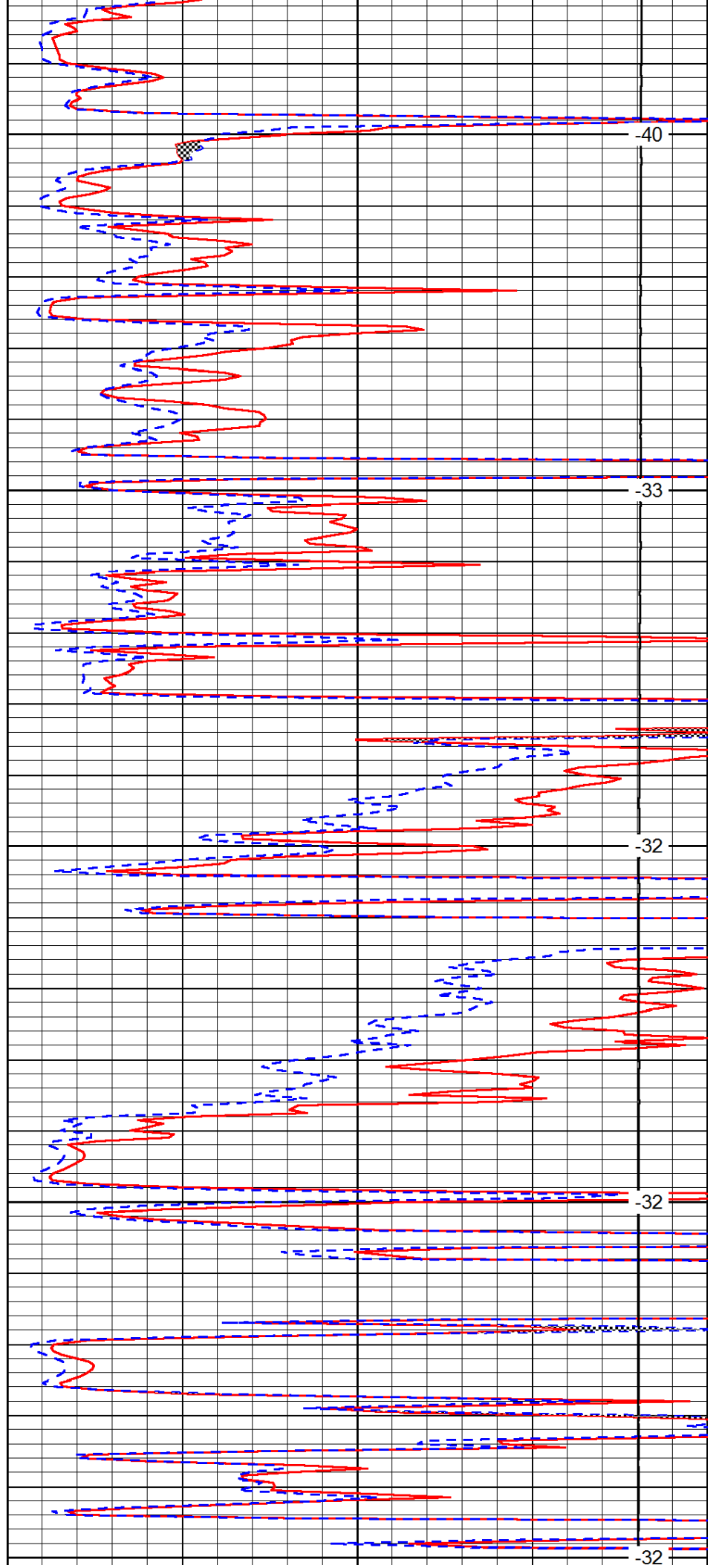
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4500

4550

4600

4650



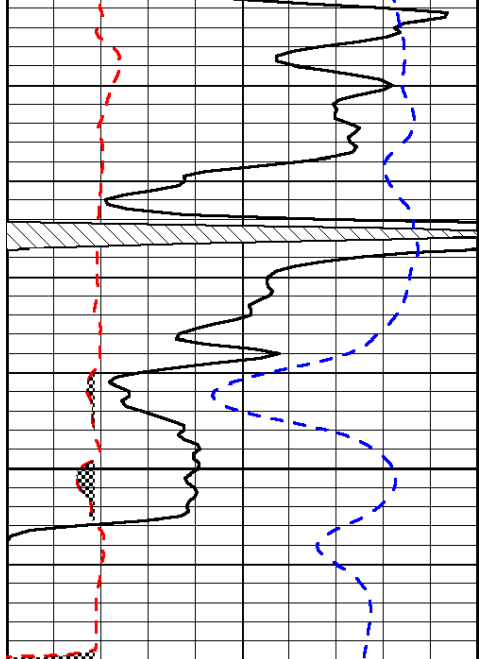
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-33

-32

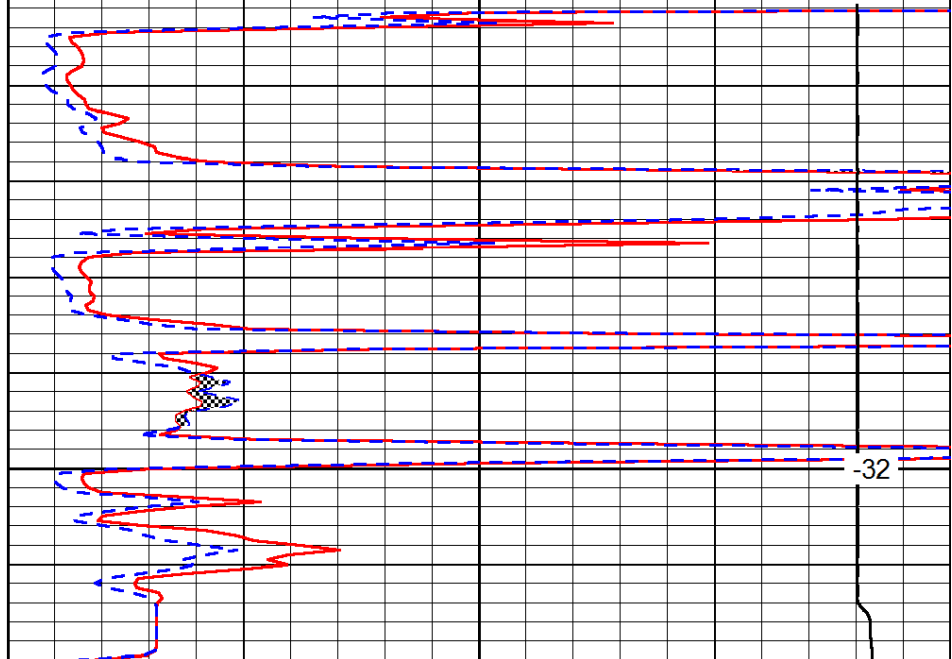
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-32



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