



Microresistivity Log

Pioneer Energy Services

API No.

15-101-22,553-00-00

Company **Larson Engineering, Inc.**

Well **Buena Vista #1-18**

Field **Wildcat**

County **Lane** State **Kansas**

Location

1220' FSL & 2532' FWL

Sec: **18** Twp: **17S** Rge: **29W**

Other Services
CNL/CDL
DIL

Elevation

K.B. 2837
D.F.
G.L. 2828

Permanent Datum **Ground Level** Elevation **2828**

Log Measured From **Kelly Bushing** 9 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Date **2/21/2015**

Run Number **Two**

Depth Driller **4560**

Depth Logger **4556**

Bottom Logged Interval **4555**

Top Log Interval **3600**

Casing Driller **8.625 @ 264**

Casing Logger **250**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **1,700**

Density / Viscosity **9.1 53**

pH / Fluid Loss **10.0 6.0**

Source of Sample **Flowline**

Rm @ Meas. Temp **1.2 @ 60**

Rmf @ Meas. Temp **.9 @ 60**

Rmc @ Meas. Temp **1.62 @ 60**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.59 @ 122**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **122**

Equipment Number **51**

Location **Hays**

Recorded By **C. Desaire**

Witnessed By **Vern Schrag**

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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.

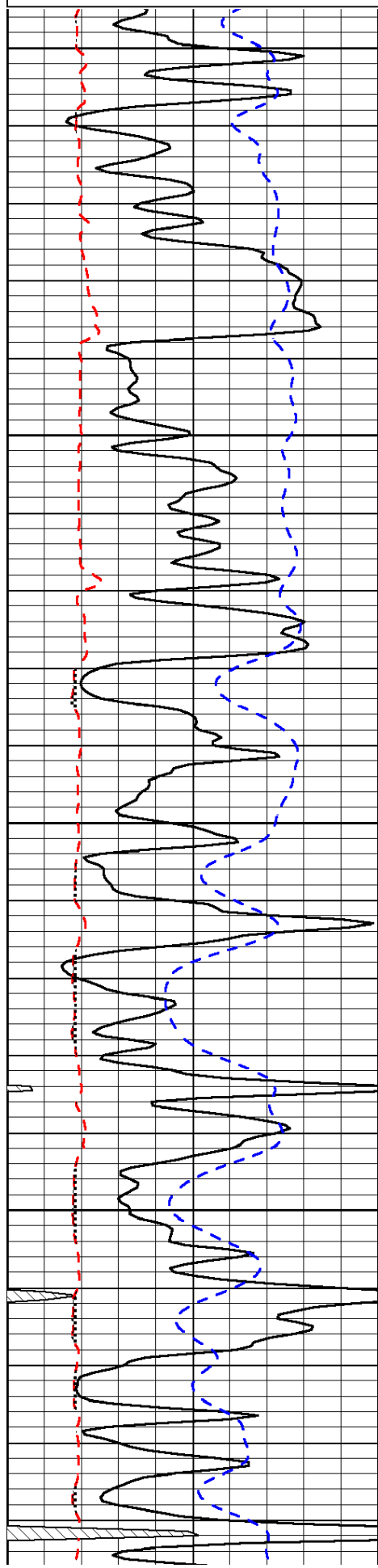
Comments

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

Healy KS, E to Eagle Rd, S to 210 Rd,
1 1/2 E, N Into

Database File: c:\warrior\data\larson_buena vista #1-18\lrsnhd.db
Dataset Pathname: dil\lrsnstk
Presentation Format: micro
Dataset Creation: Sat Feb 21 16:49:29 2015
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	MCAL (GAPI)	16
-200	SP (mV)	0



3600

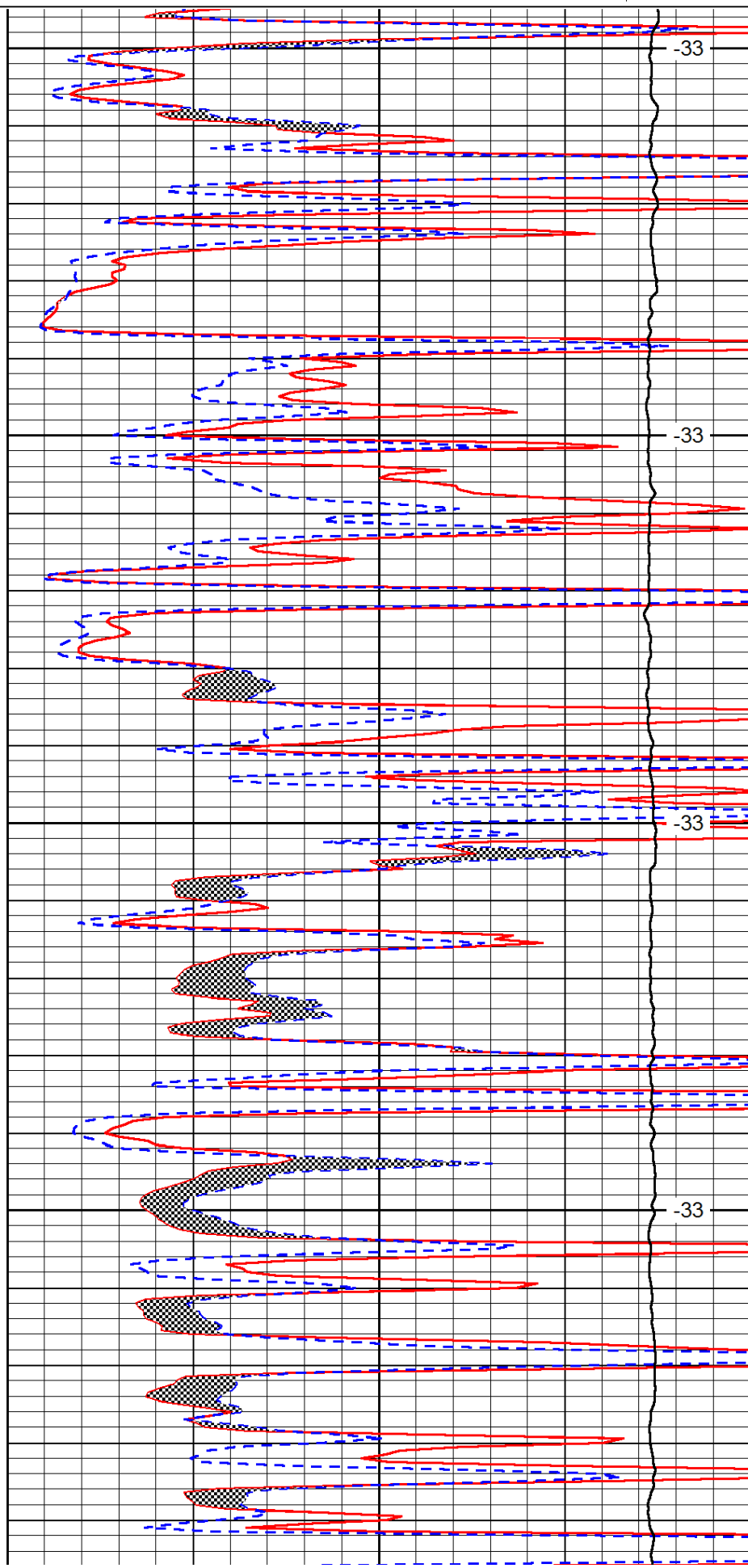
3650

3700

3750

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

LSPD

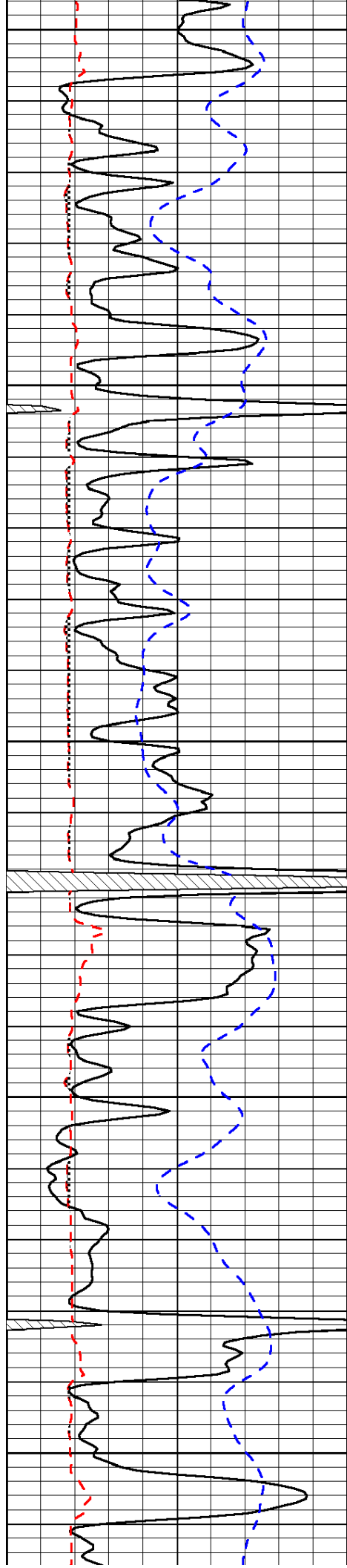


-33

-33

-33

-33



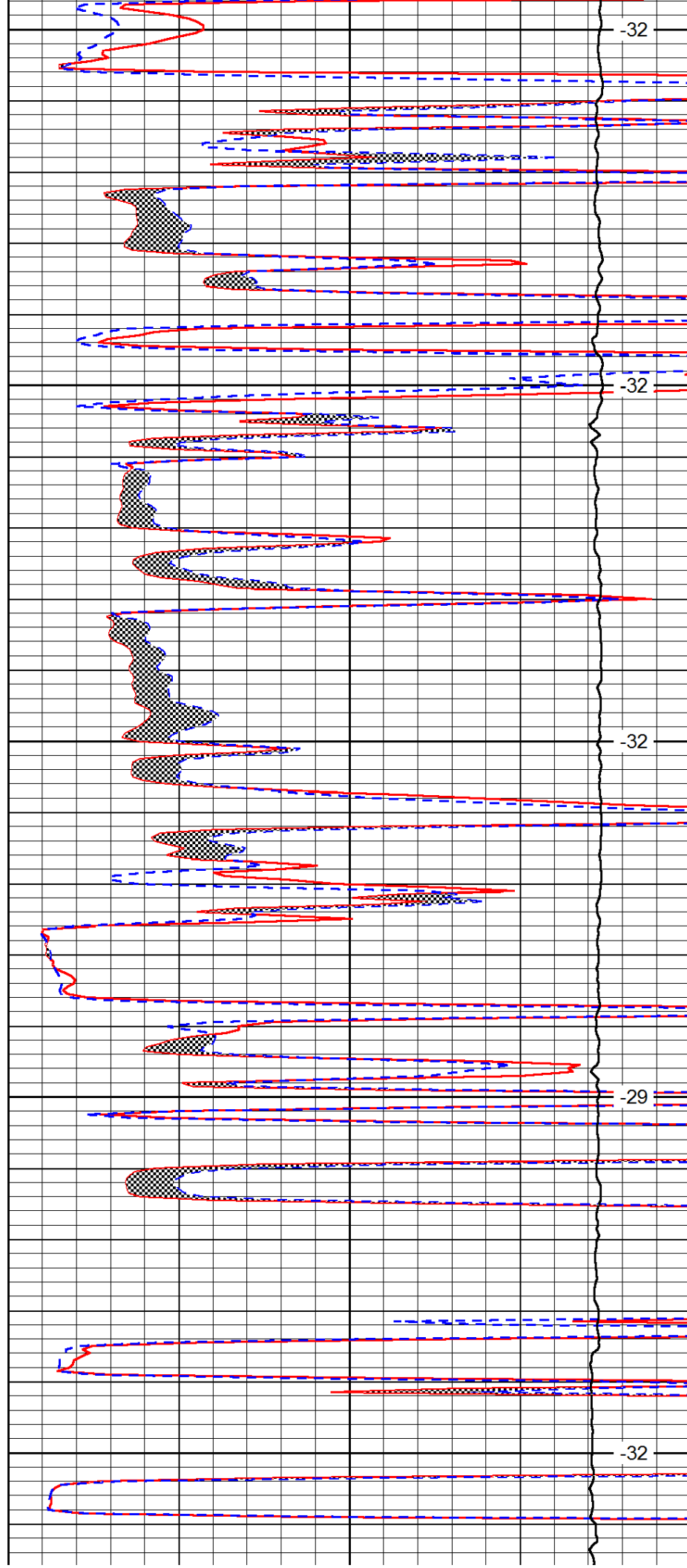
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3850

3900

3950

4000



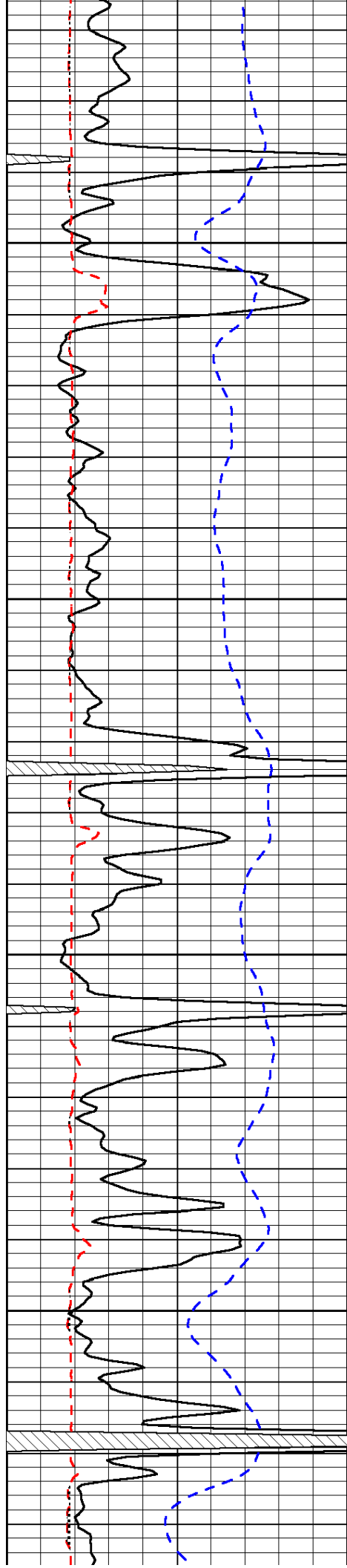
-32

-32

-32

-29

-32

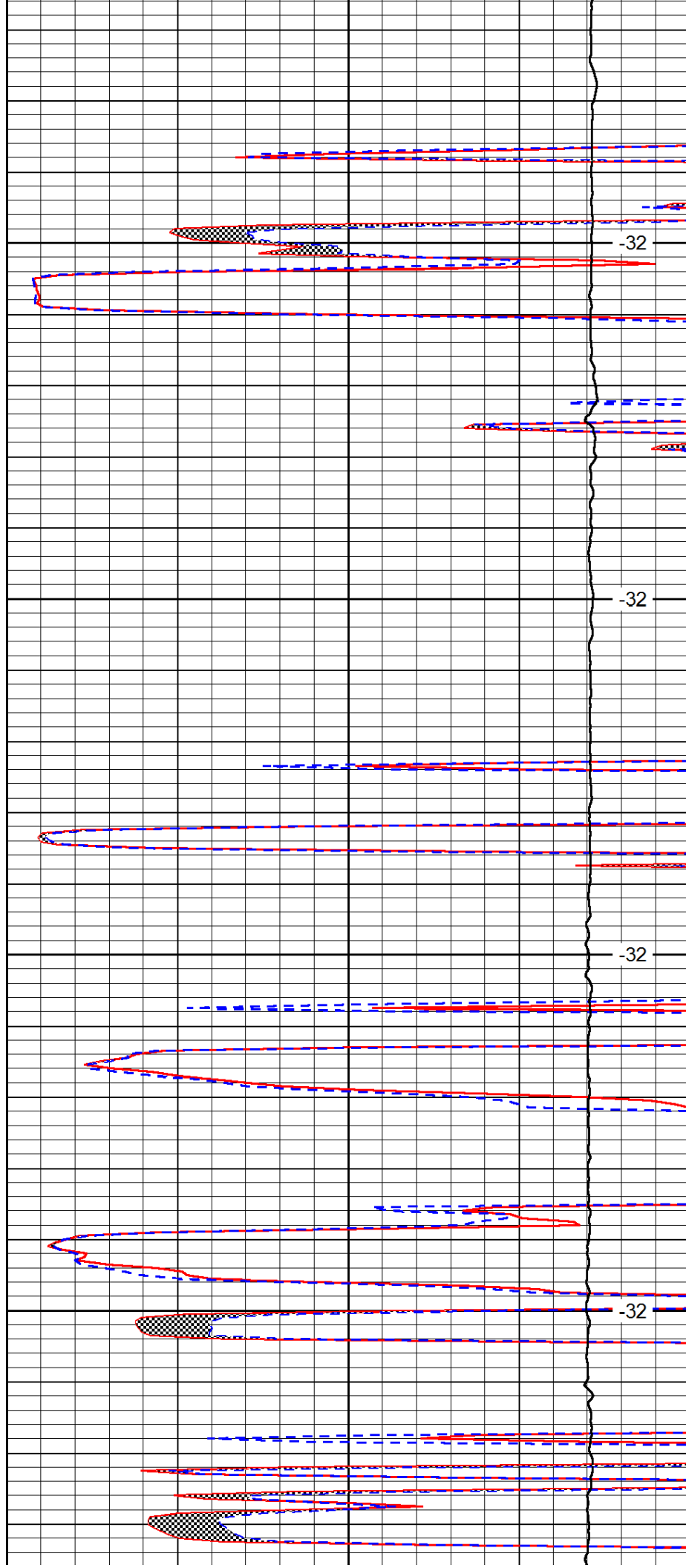


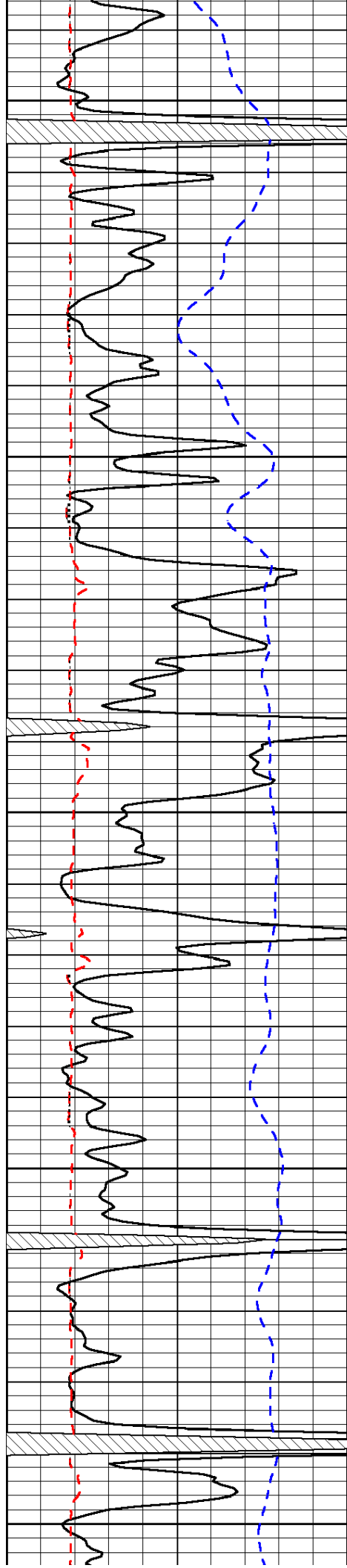
4050

4100

4150

4200





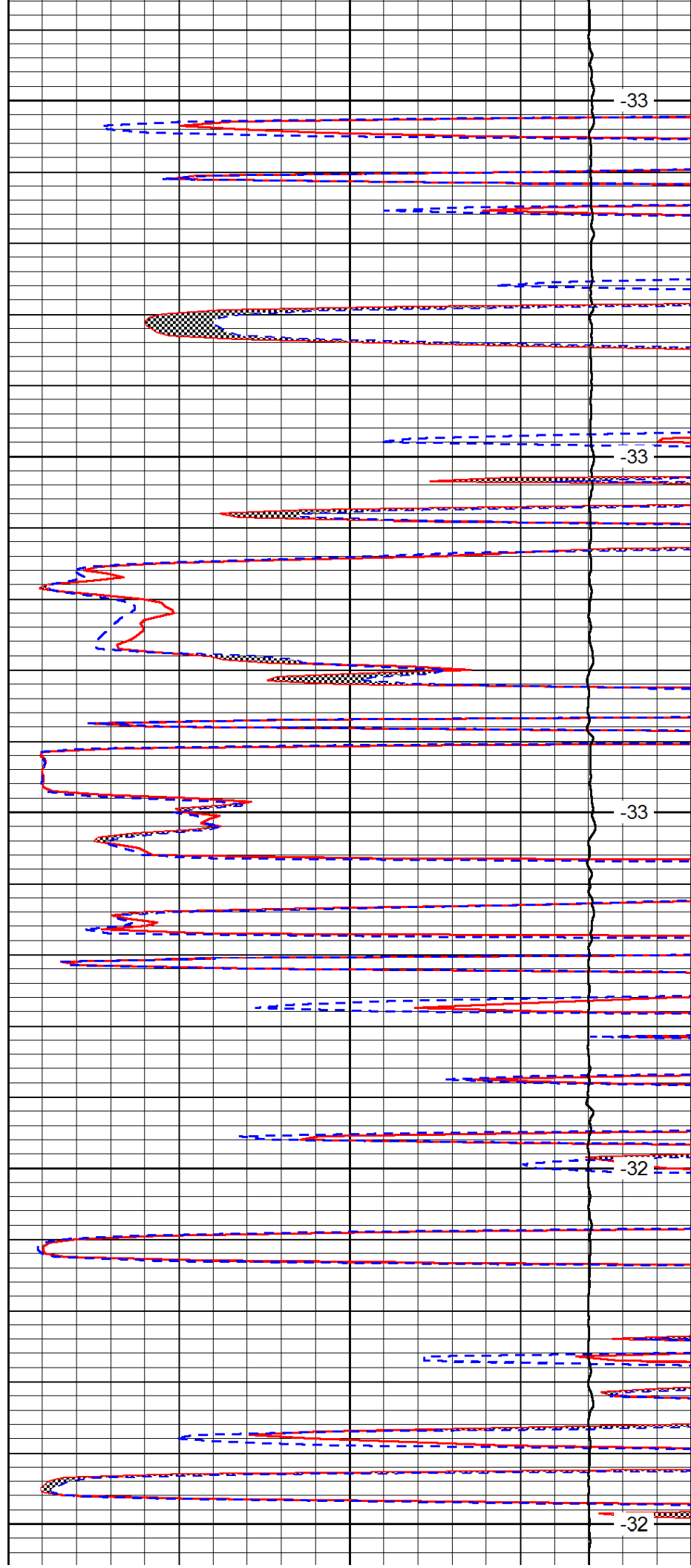
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4300

4350

4400

4450



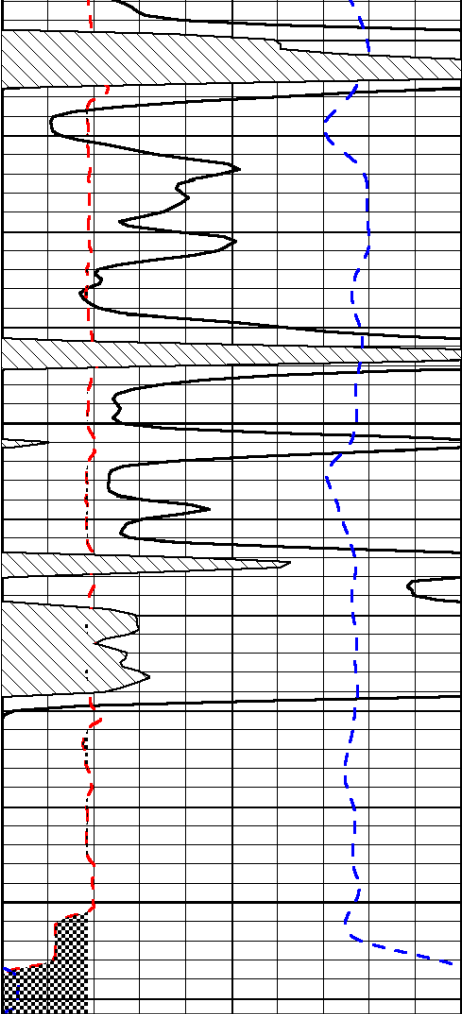
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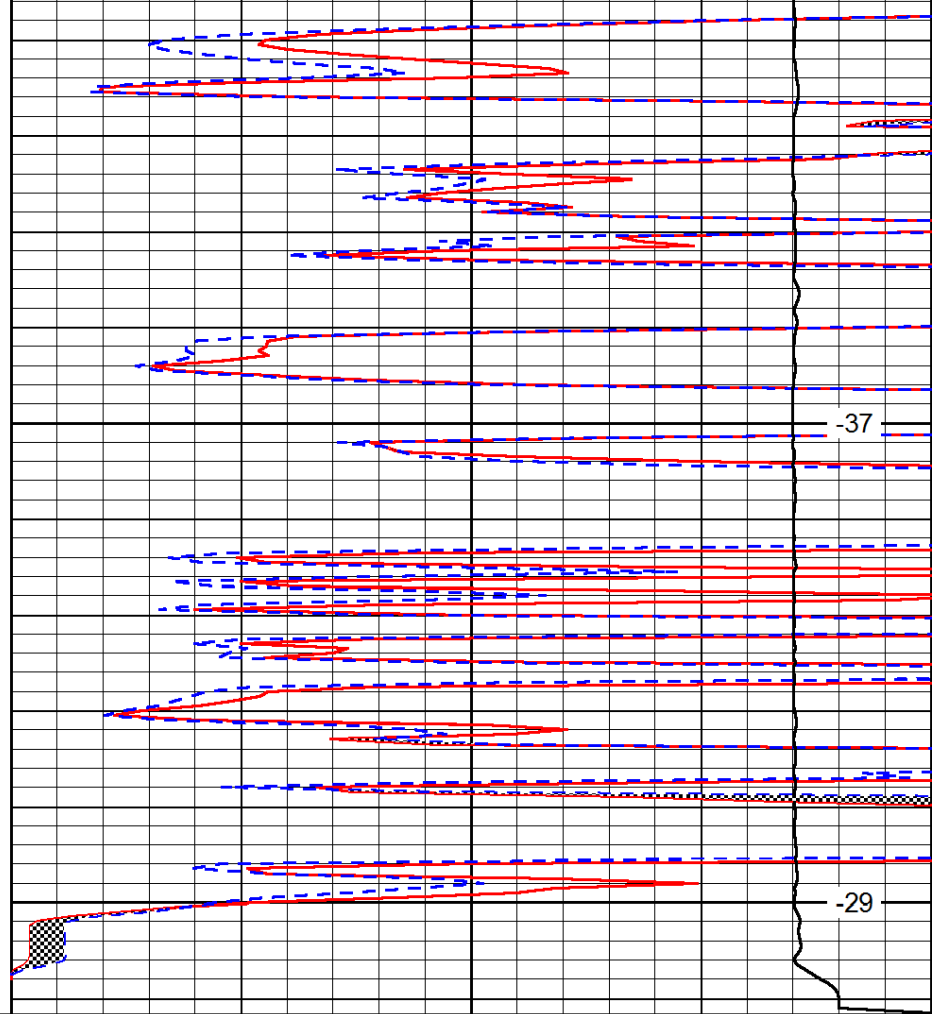
-32



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