



Microresistivity Log

Pioneer Energy Services

API No.

15-167-23,957-00-00

Company Fossil Energy, LLC.

Well Starkey #1-35

Field Unnamed

County Russell State Kansas

Location NW SE SE SW
467' FSL & 2032' FWL

Sec: 35 Twp: 12S Rge: 14W

Permanent Datum Ground Level Elevation 1579

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

Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
DIL

Elevation
K.B. 1586
D.F. 1579
G.L. 1579

Date 3/12/2014

Run Number Two

Depth Driller 3090

Depth Logger 3089

Bottom Logged Interval 3088

Top Log Interval 2400

Casing Driller 8.625 @ 435

Casing Logger 433

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 4000

Density / Viscosity 8.9 60

pH / Fluid Loss 11 6.4

Source of Sample Flowline

Rm @ Meas. Temp 0.24 @ 62

Rmf @ Meas. Temp 0.18 @ 62

Rmc @ Meas. Temp 0.32 @ 62

Source of Rmf / Rmc Charts

Rm @ BHT 0.14 @ 107

Operating Rig Time 3 1/2 Hours

Max Rec. Temp. F 107

Equipment Number 15

Location Hays

Recorded By D. Kerr

Witnessed By Randall Kilian

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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 Log-Tech, Inc.
(785) 625-3858

Russell KS, 4 North to Land RD,
1/4 East, North Into

Database File: fossil_starkey_1_35hd.db

Dataset Pathname: DIL/fosstk

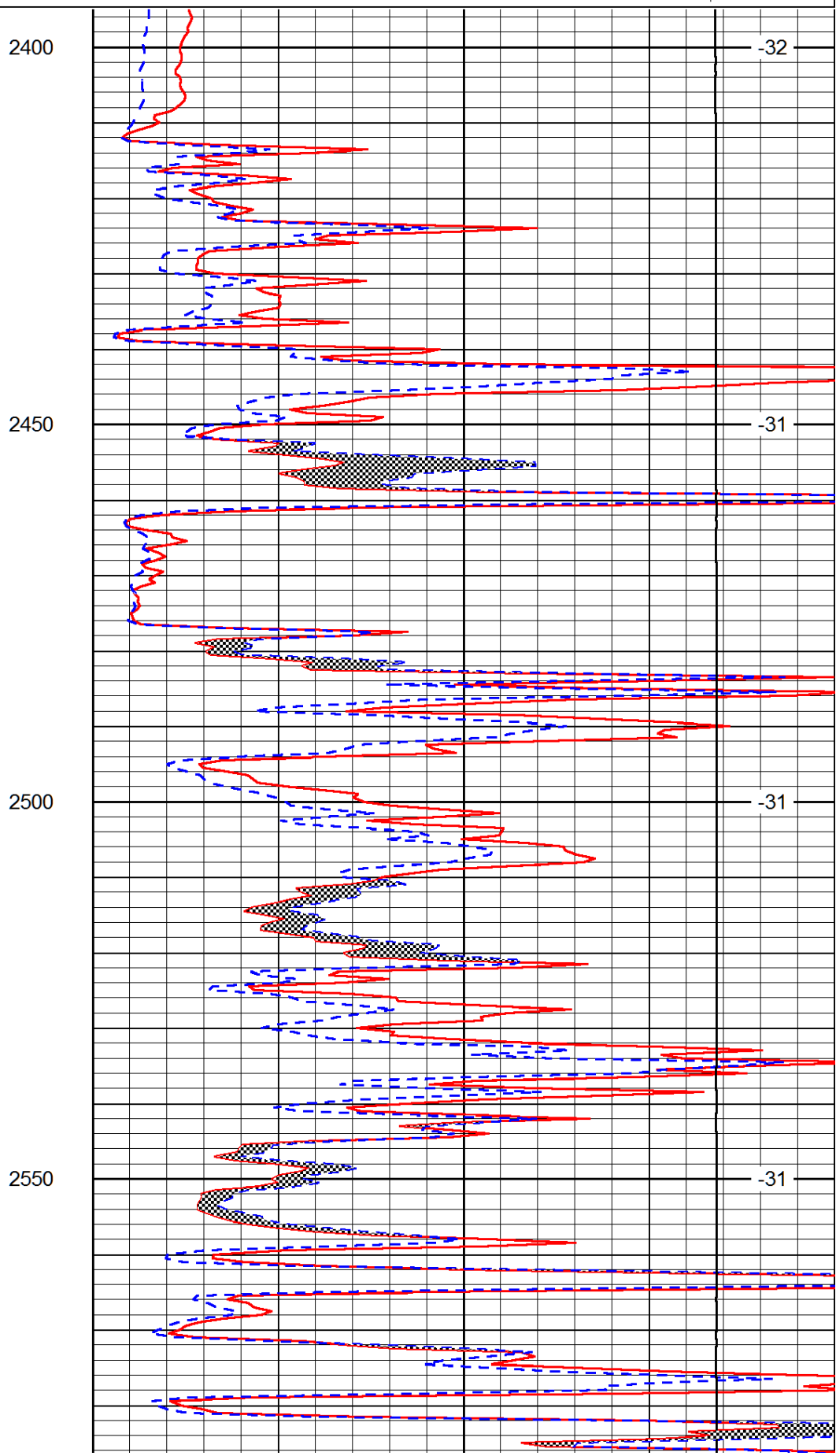
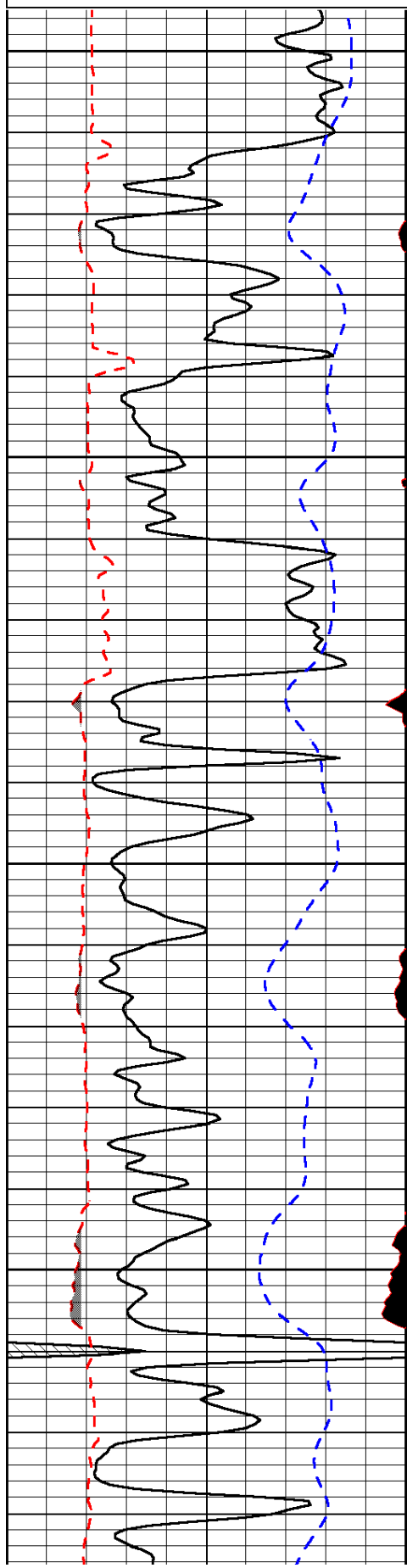
Presentation Format: micro

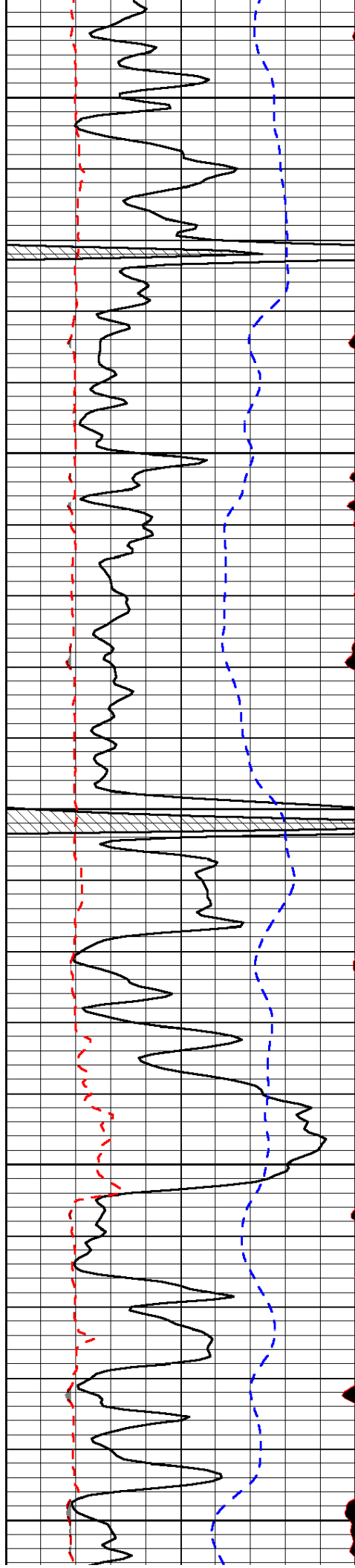
Dataset Creation: Wed Mar 12 18:35:54 2014

Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:210		
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0
		LSPD (ft/min)





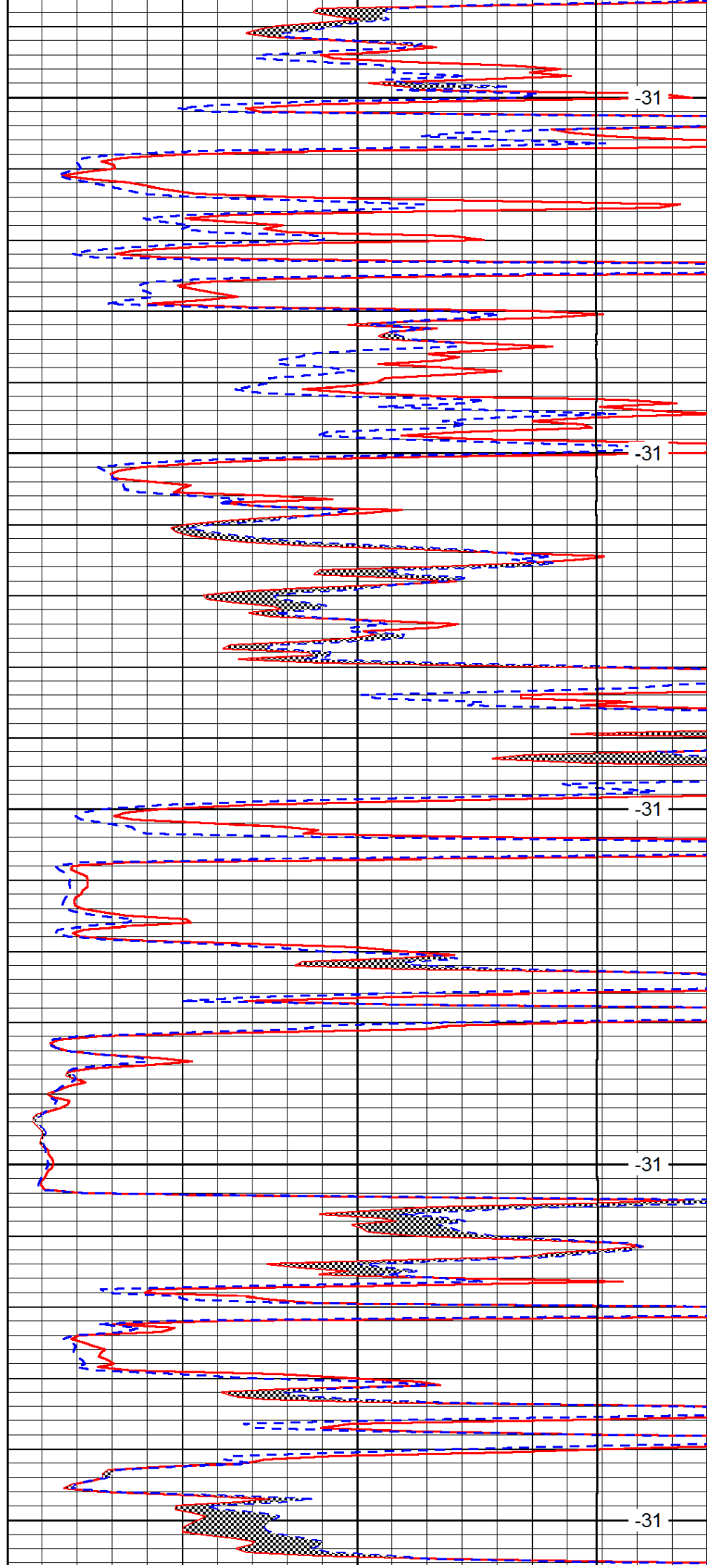
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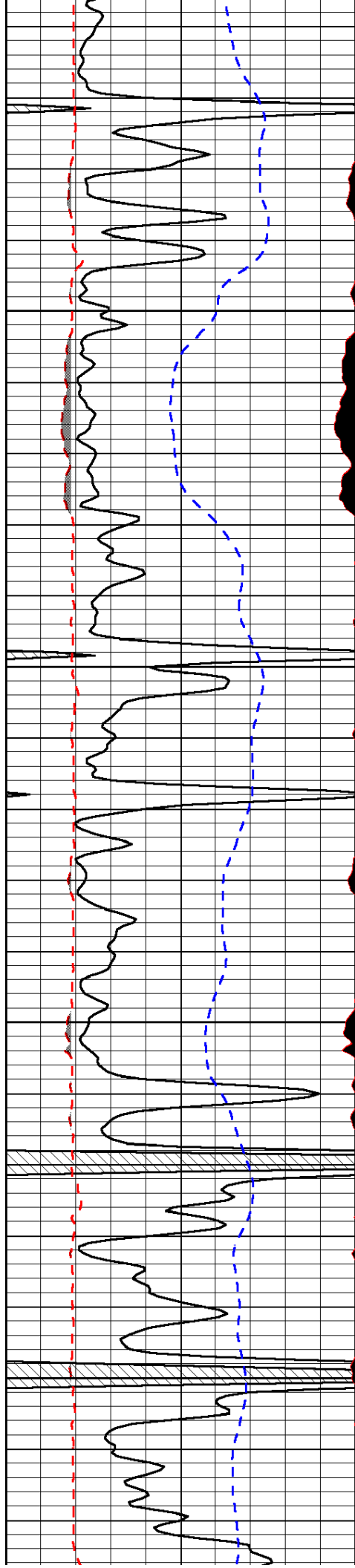
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2750

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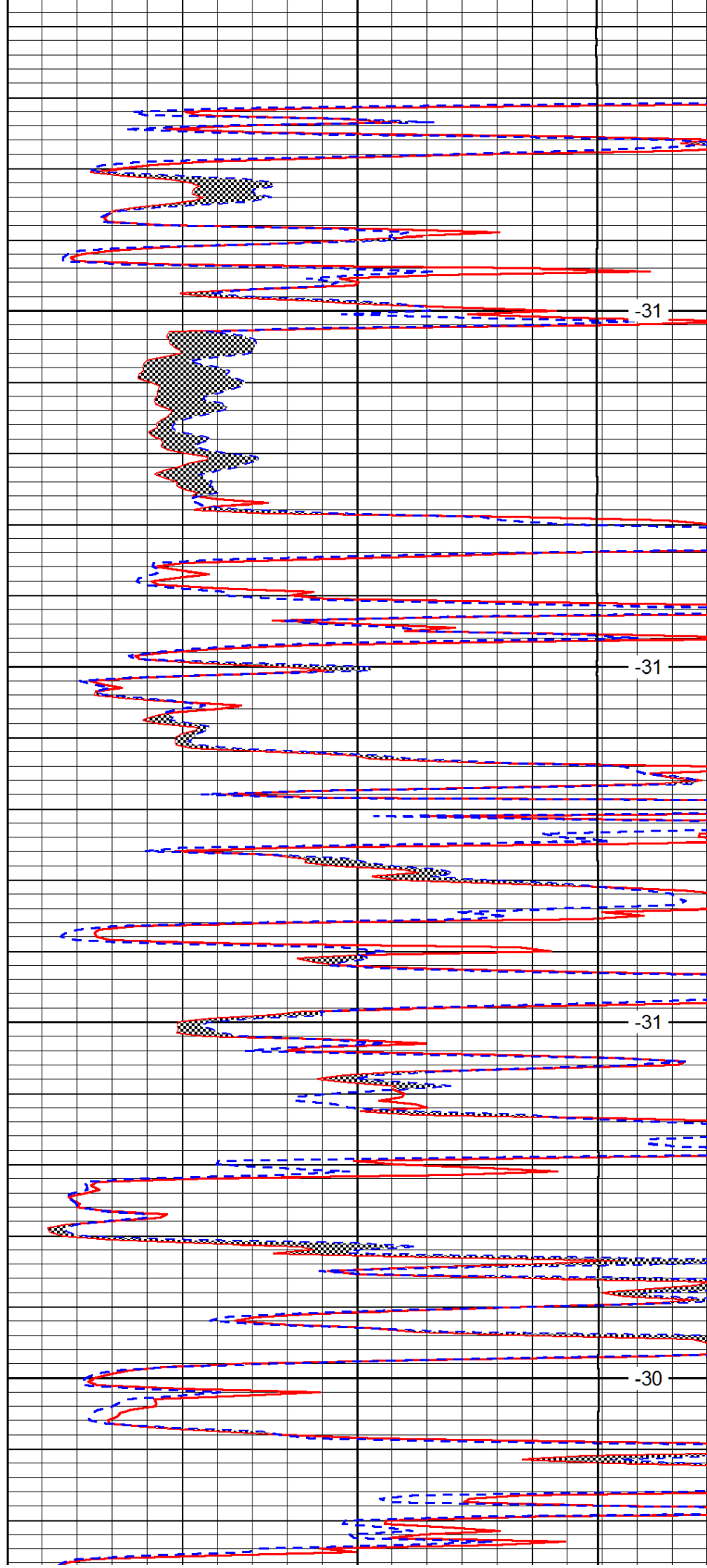


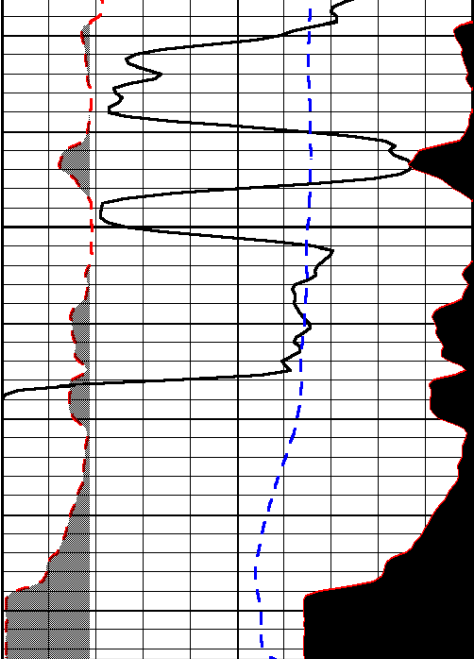
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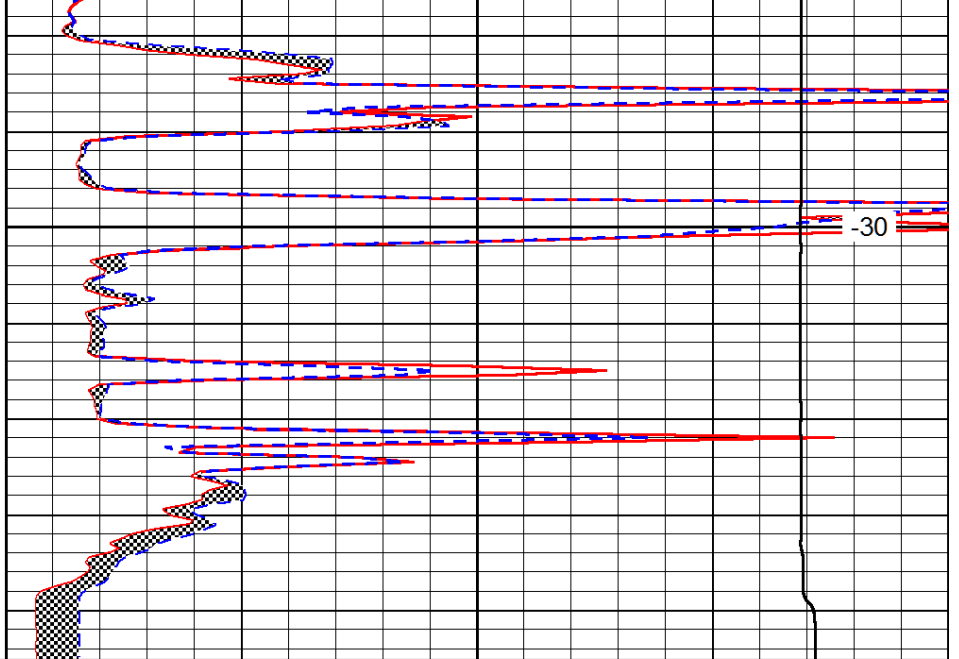
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0	Gamma Ray (GAPI)	150
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2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

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0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

LSPD
(ft/min)