



Microresistivity Log

Pioneer Energy Services

API No.

15-153-20,969-00-00

Company Berexco LLC

Well Michael No.7-22

Field East Fork

County Rawlins State Kansas

Location 2310' FNL & 330' FEL

Sec: 22 Twp: 1S Rge: 36W

Permanent Datum Ground Level Elevation 3175
Log Measured From Kelly Bushing 13 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation

K.B. 3188
D.F. 3175
G.L. 3175

Other Services
RAG

Date 12/31/2013

Run Number Two

Depth Driller 4450

Depth Logger 4452

Bottom Logged Interval 4451

Top Log Interval 3500

Casing Driller 8.625 @ 310

Casing Logger 308

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity,ppm CL 800

Density / Viscosity 9.6 69

pH / Fluid Loss 12.0 6.8

Source of Sample Flowline

Rm @ Meas. Temp 1.4 @ 48

Rmf @ Meas. Temp 1.05 @ 48

Rmc @ Meas. Temp 1.89 @ 48

Source of Rmf / Rmc Charts

Rm @ BHT .56 @ 121

Operating Rig Time 4 Hours

Max Rec. Temp. F 121

Equipment Number 17

Location Hays

Recorded By C. Desaire

Witnessed By Pete Vollmer

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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.

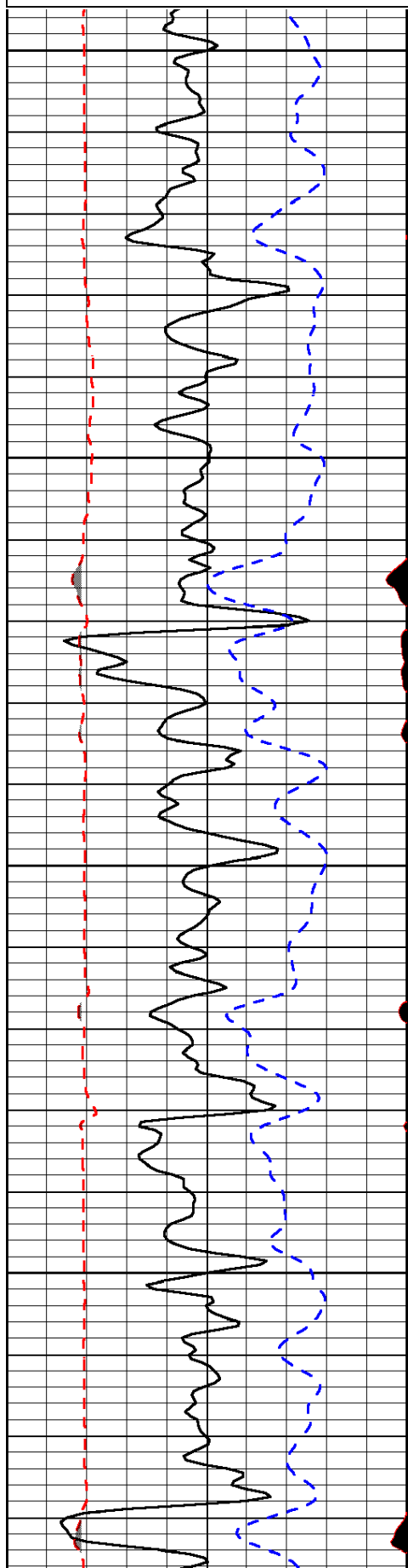
Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

Beardsley KS, N to AA Rd,
5 7/8 W, turn in by red farmstead, over cattleguard,
right at fork, then stay left

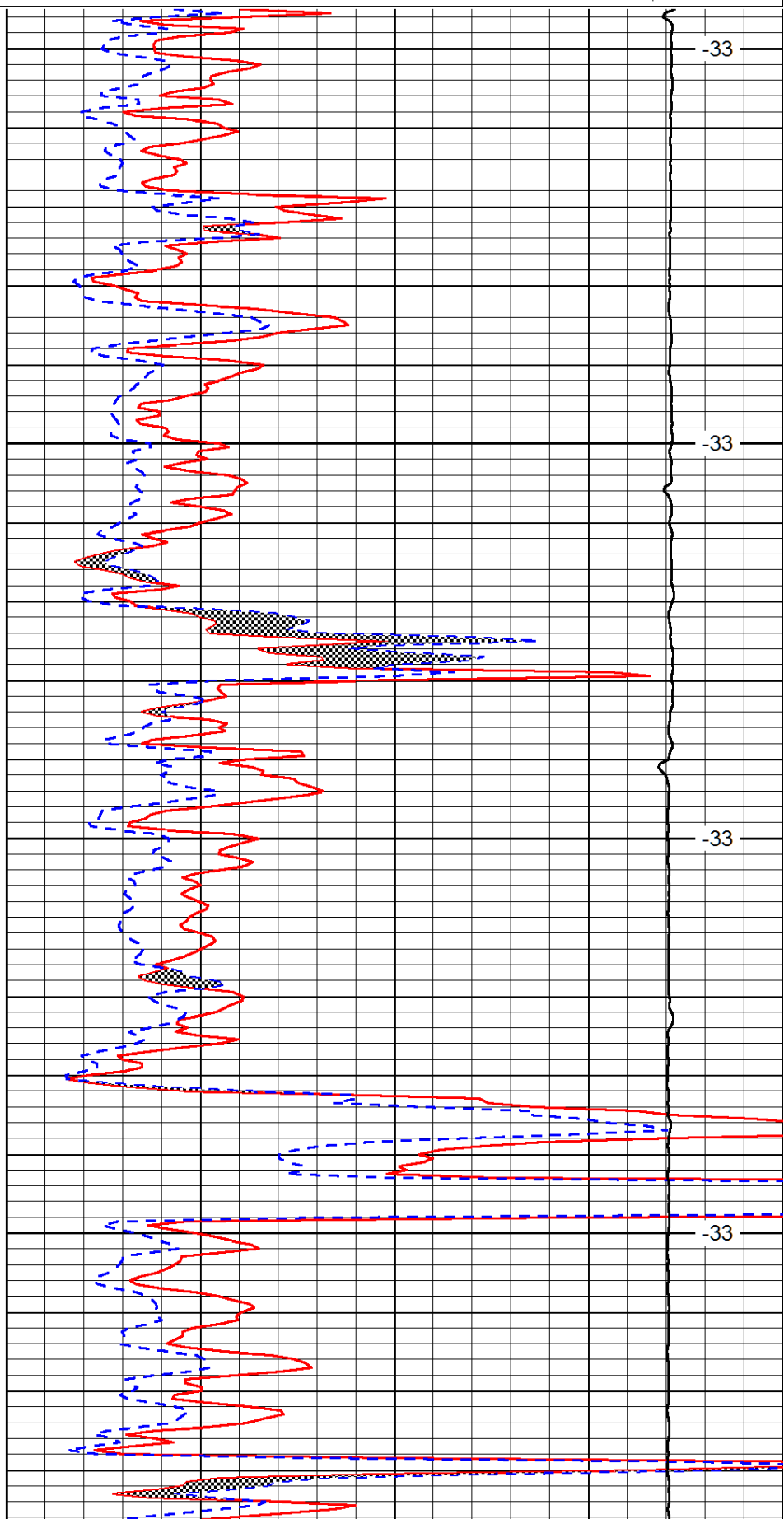
Database File: berxhd.db
Dataset Pathname: rag/berrag
Presentation Format: micro
Dataset Creation: Tue Dec 31 10:36:34 2013
Charted by: Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:2.15		
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

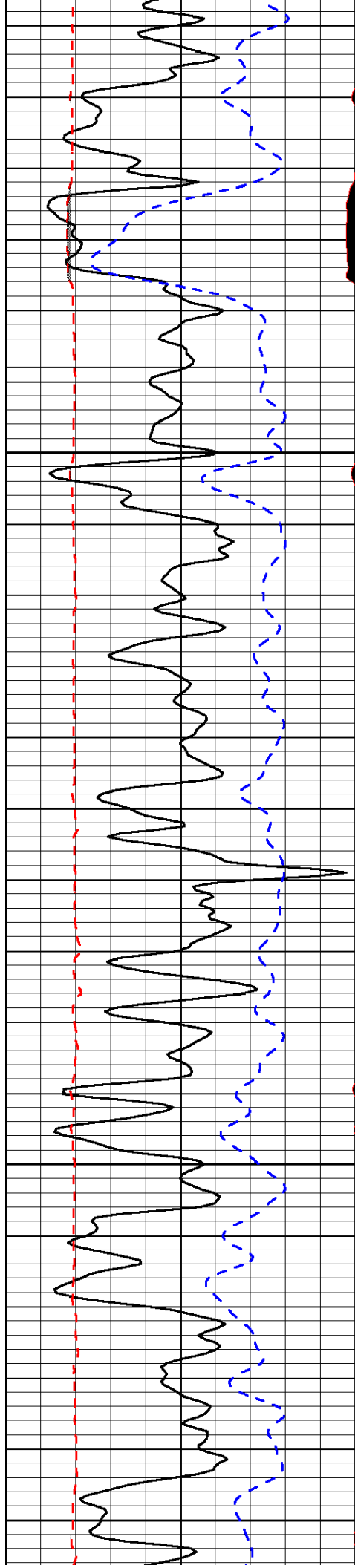


3500
3550
3600
3650

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



-33
-33
-33
-33



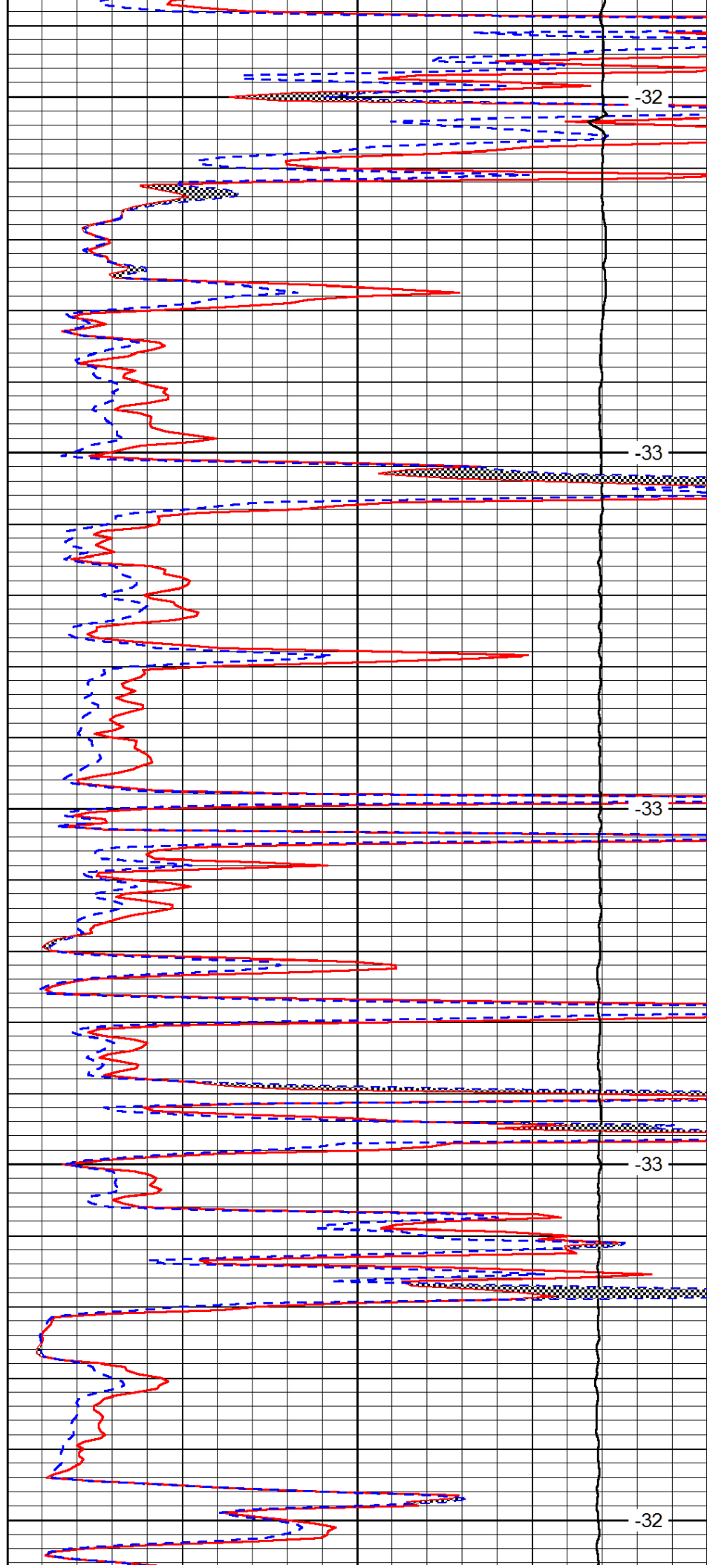
3700

3750

3800

3850

3900



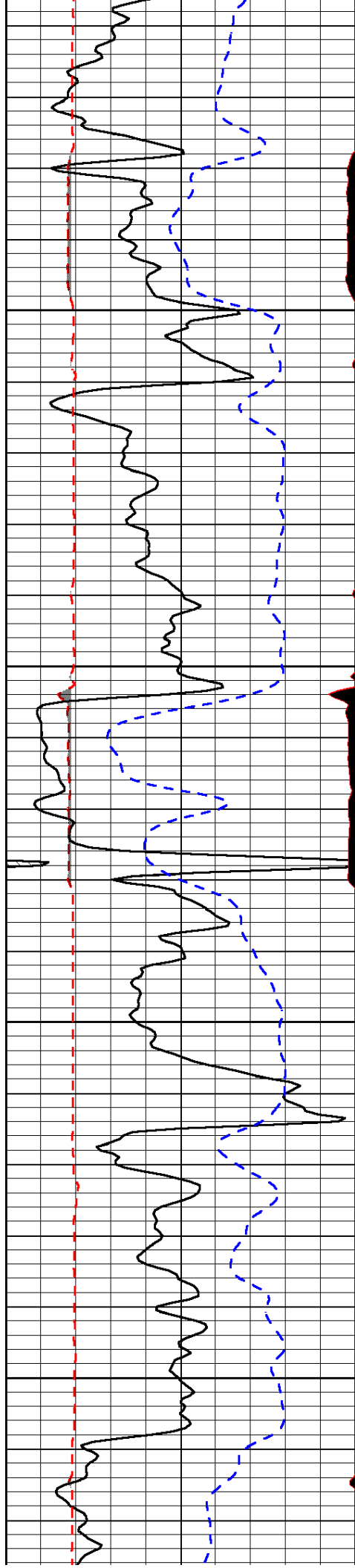
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-33

-33

-33

-32

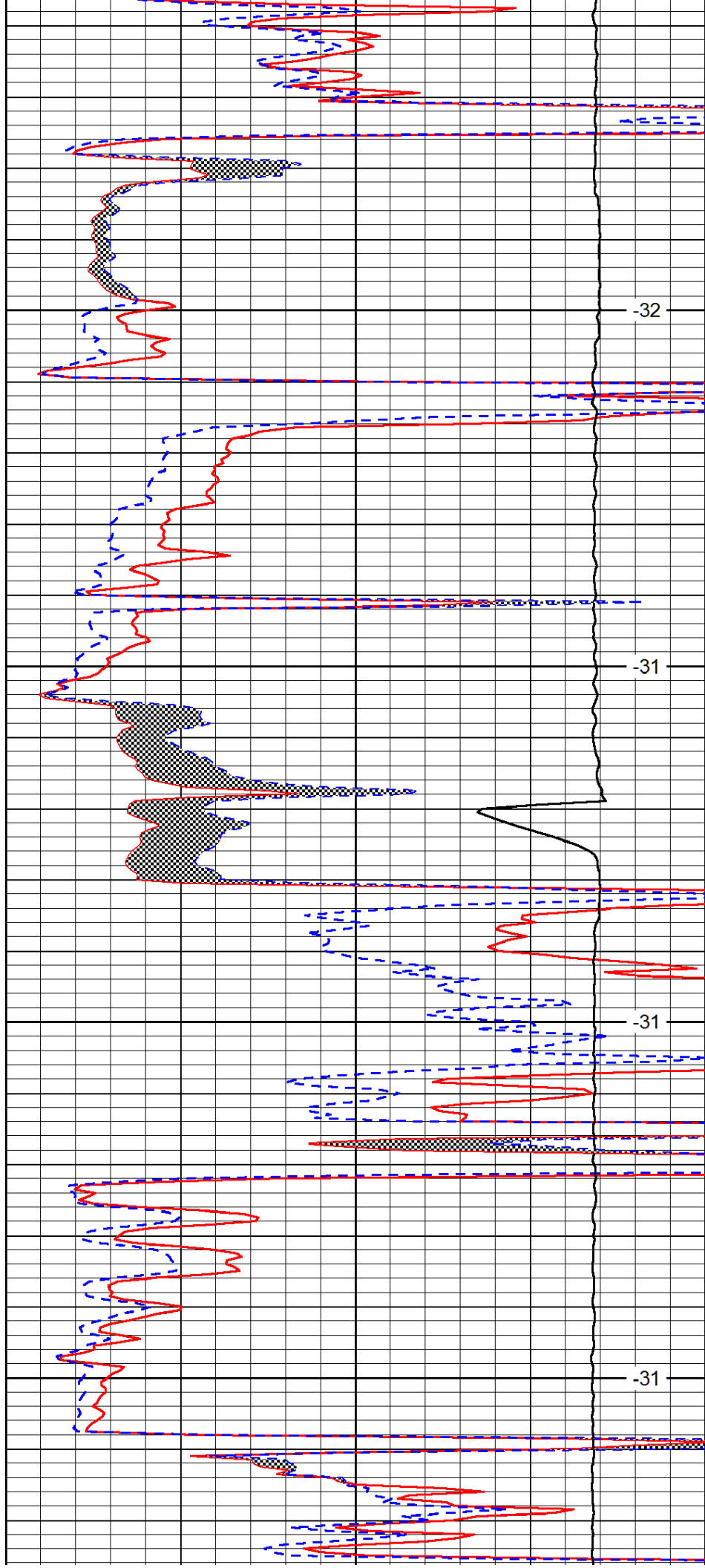


3950

4000

4050

4100

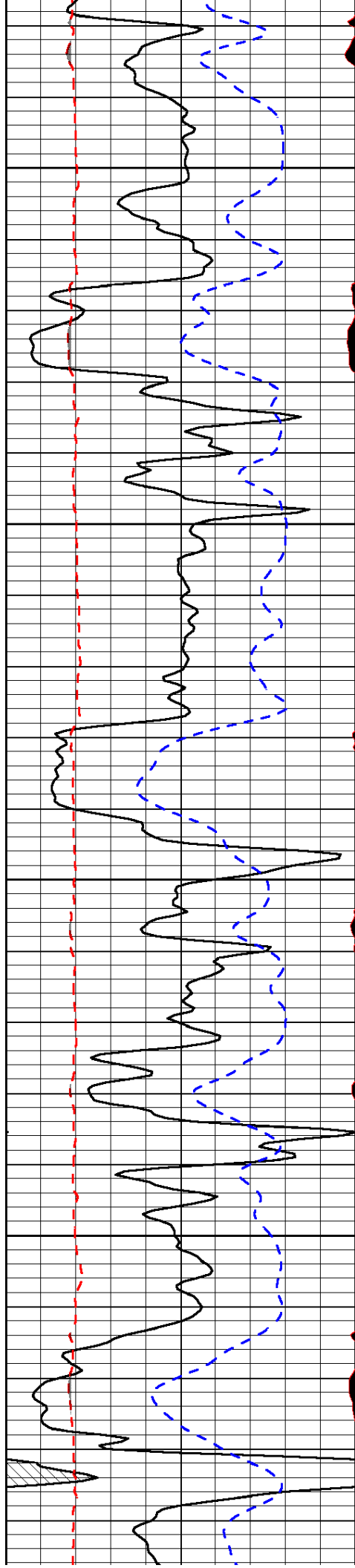


-32

-31

-31

-31

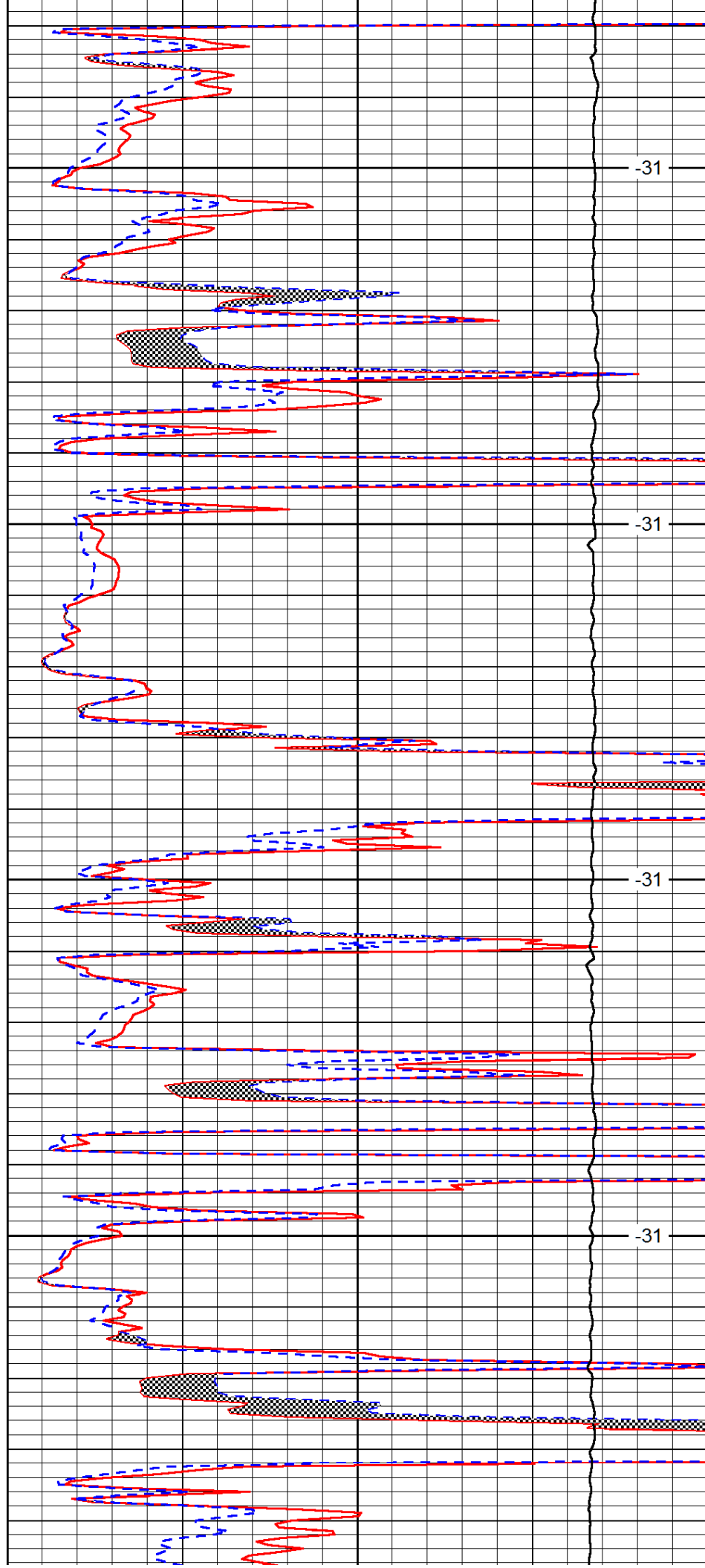


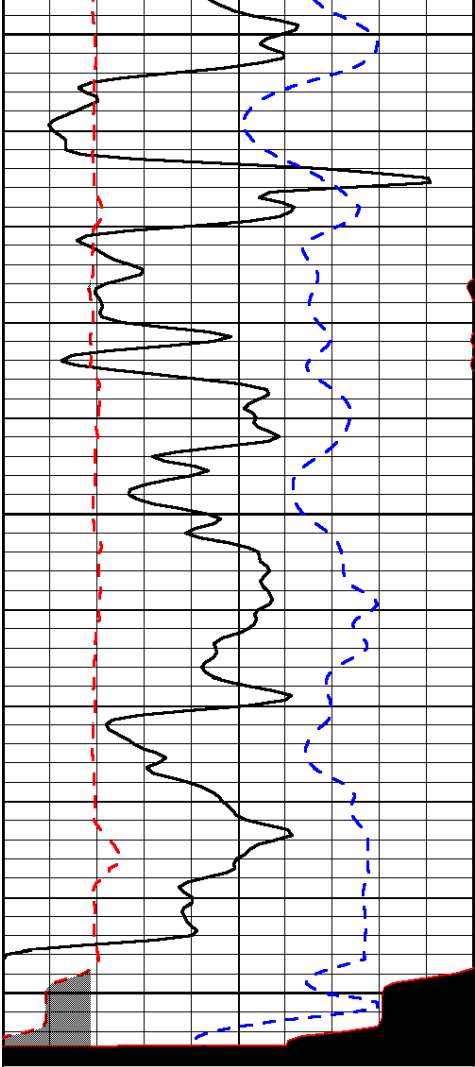
4150

4200

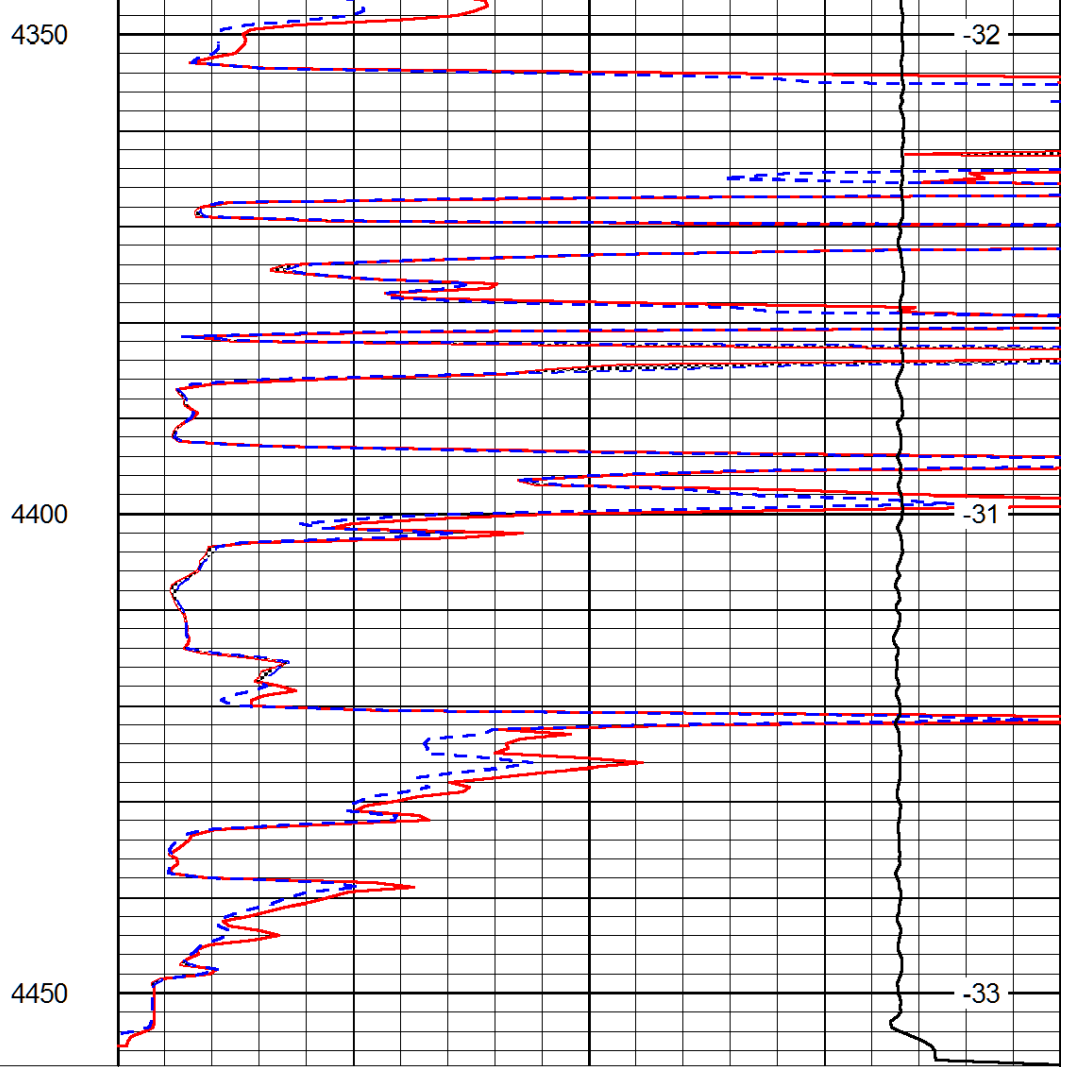
4250

4300





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)