



Pioneer Energy Services

Microresistivity Log

API No.

15-193-20,925-00-00

Company **Questa Energy Corporation**

Well **Bertrand No. 2-22**

Field **Ohl**

County **Thomas**

State

Kansas

Location

2,548' FNL & 1,868' FEL

Sec: **22**

Twp: **9S**

Rge: **32W**

Other Services
CNL/CDL
DIL/BHCS

Permanent Datum

Ground Level

Elevation 3071

Log Measured From

Kelly Bushing

10 Ft. Above Perm. Datum

K.B. 3081
D.F.
G.L. 3071

Drilling Measured From

Kelly Bushing

Date

9/13/2014

Run Number

Two

Depth Driller

4730

Depth Logger

4730

Bottom Logged Interval

4729

Top Log Interval

3900

Casing Driller

8.625 @ 356

Casing Logger

357

Bit Size

7.875

Type Fluid in Hole

Chemical

Salinity, ppm CL

1800

Density / Viscosity

9.2 38

pH / Fluid Loss

10.0 7.8

Source of Sample

Flowline

Rm @ Meas. Temp

1.10 @ 70

Rmf @ Meas. Temp

.83 @ 70

Rmc @ Meas. Temp

1.49 @ 70

Source of Rmf / Rmc

Charts

Rm @ BHT

.62 @ 123

Operating Rig Time

4 1/2 Hours

Max Rec. Temp. F

123

Equipment Number

108

Location

Hays

Recorded By

J. Long

Witnessed By

Justin Carter

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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

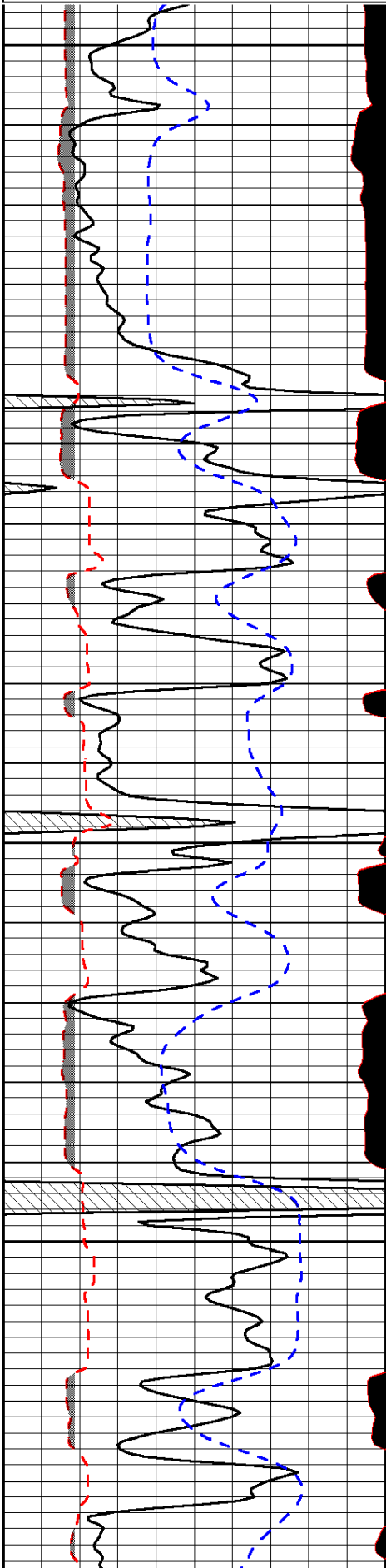
Thank you for using Log-Tech, Inc.
(785) 625-3858

Oakley (Highway 83 & I-70 Intersection), 4 1/2 North, West Into

Database File: questa_bertrand_2-22hd.db
Dataset Pathname: dil/quesstck
Presentation Format: micro
Dataset Creation: Sat Sep 13 08:45:52 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0
		LSPD

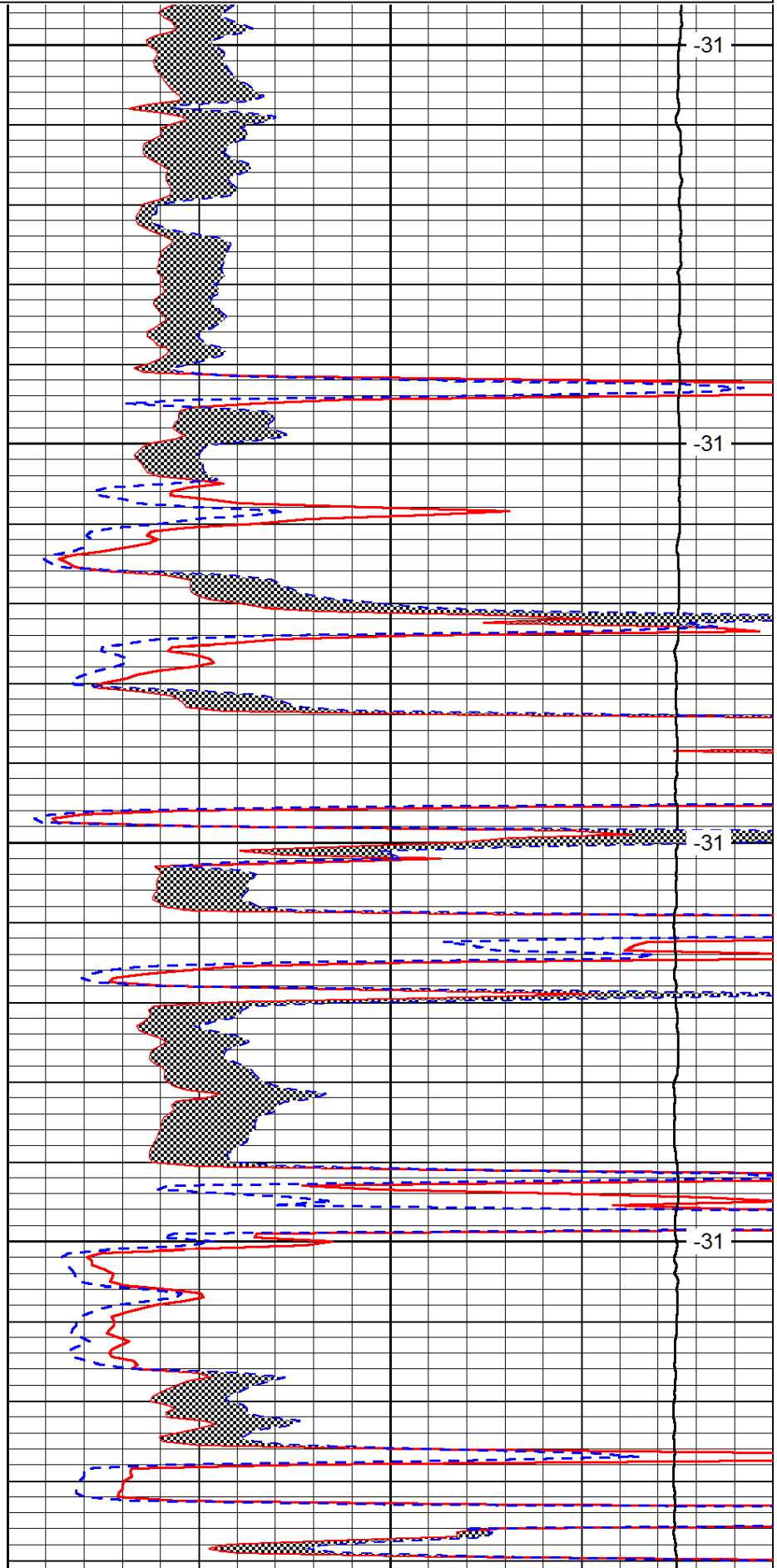


3900

3950

4000

4050

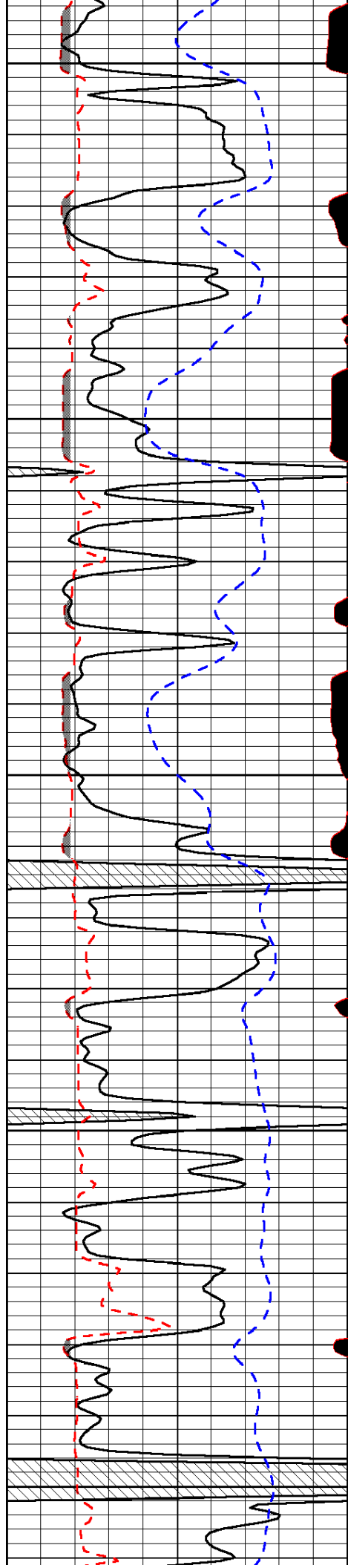


-31

-31

-31

-31



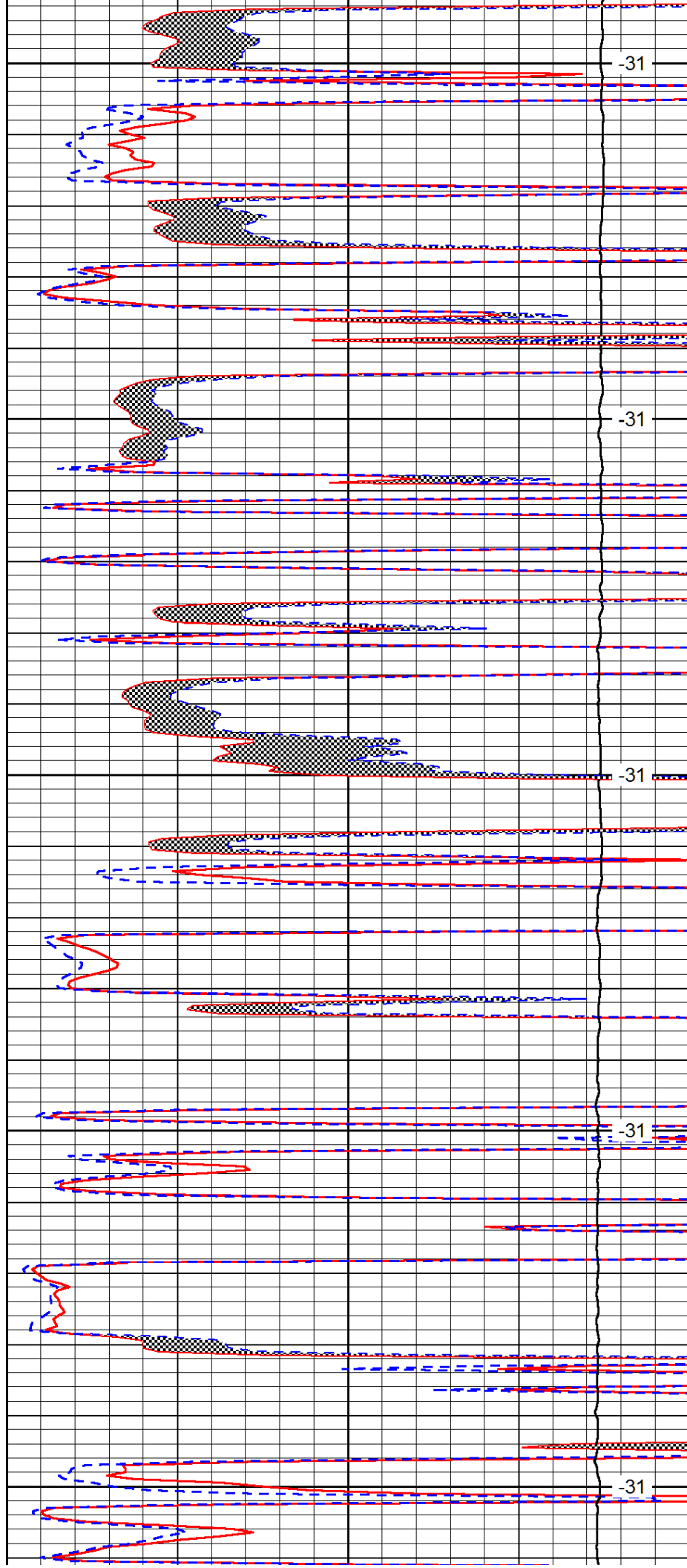
4100

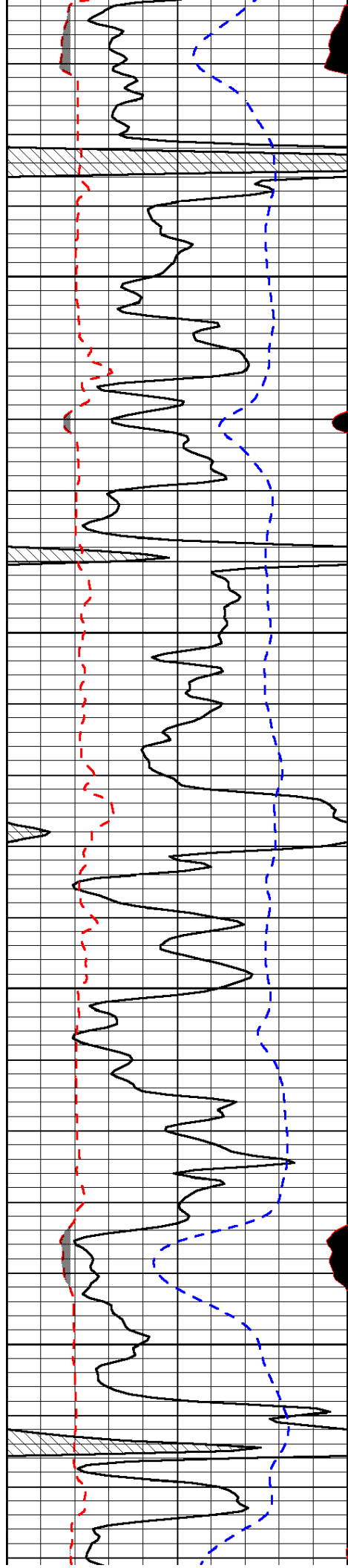
4150

4200

4250

4300



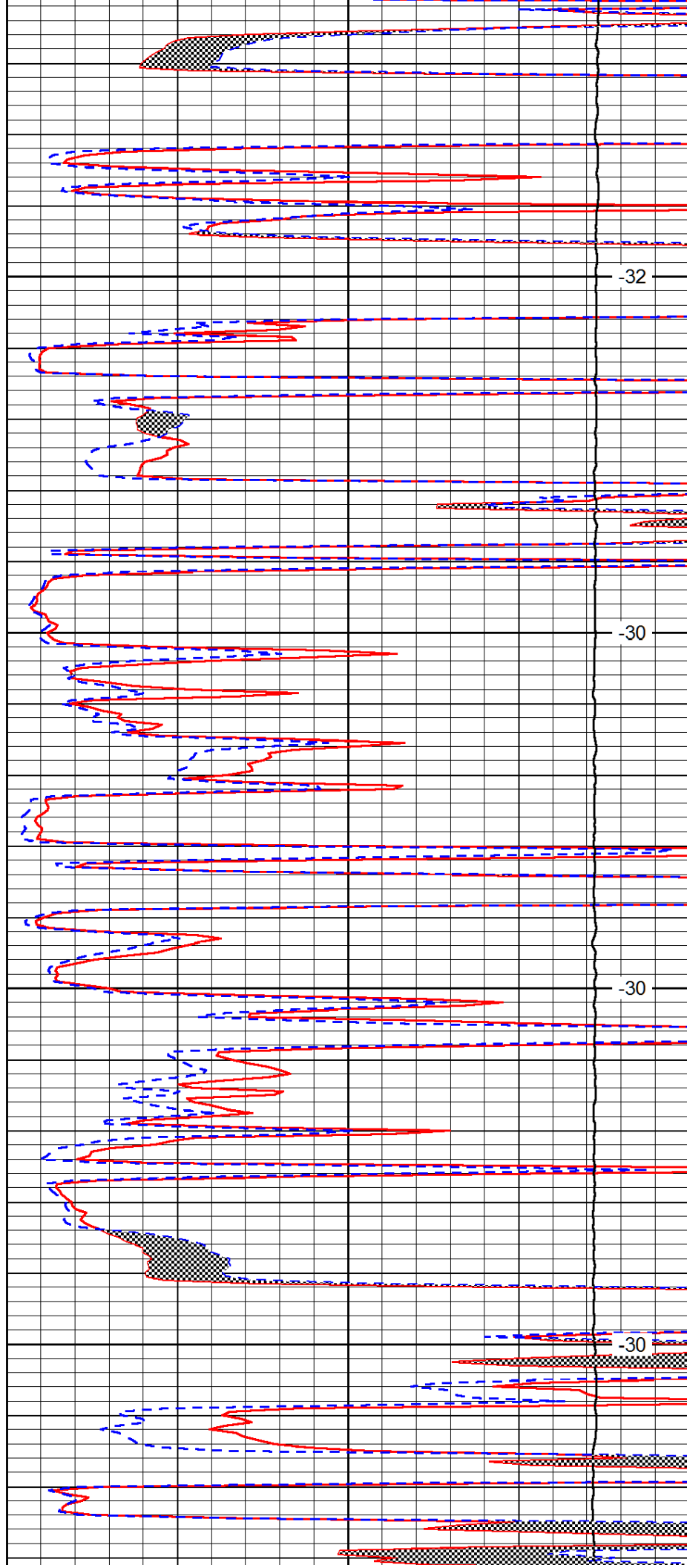


4350

4400

4450

4500

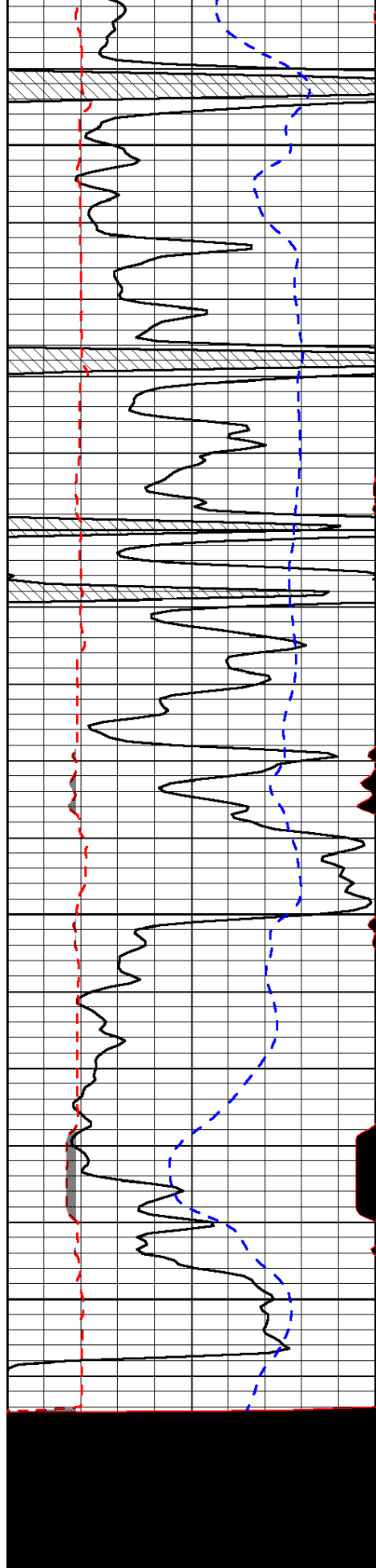


-32

-30

-30

-30



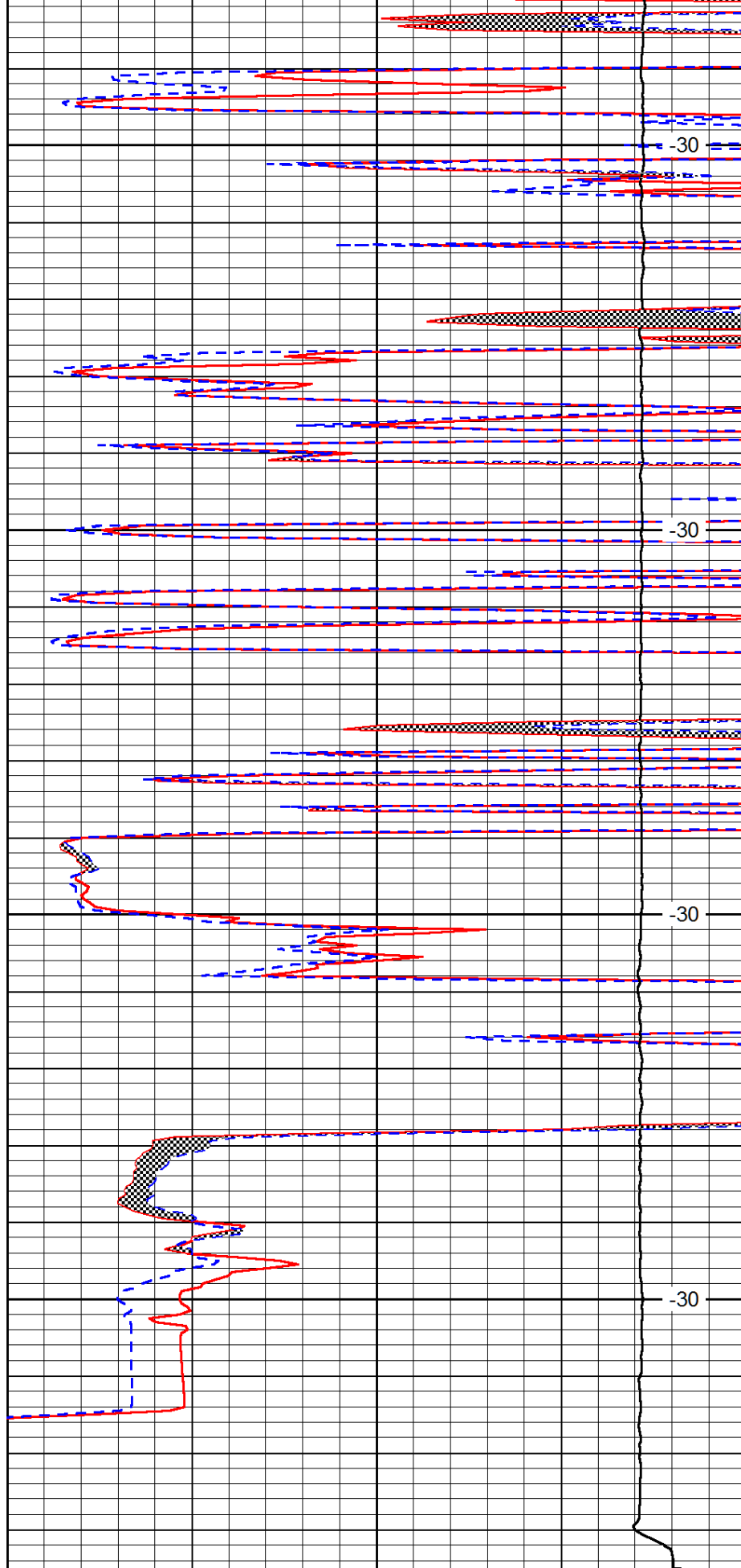
0	Gamma Ray	150
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4550

4600

4650

4700



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0	Micro Normal 2"	40
10000	Line Weight	0

-200 SP (mV) 0

LSPD