

# LOG-TECH



DIGITAL LOG (785) 625-3858

## Microresistivity Log

API No. 15-083-21779-00-00

Company **DK Operating, Inc.**  
 Well **Antrim Unit #1-17**  
 Field **Wieland North**  
 County **Hodgeman** State **Kansas**

Location **70' FNL & 450' FEL**

Sec: **17** Twp: **21S** Rge: **22W**

Other Services  
 CNL/CDL  
 DIL

Elevation  
 K.B. 2282  
 D.F. 2272  
 G.L. 2272

Permanent Datum	Ground Level	Elevation 2272
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
Date		6/6/2012
Run Number		Two
Depth Driller		4357
Depth Logger		4360
Bottom Logged Interval		4359
Top Log Interval		3600
Casing Driller		8.625 @ 258
Casing Logger		256
Bit Size		7.875
Type Fluid in Hole		Chemical
Salinity, ppm CL		11,400
Density / Viscosity		9.2 45
pH / Fluid Loss		8.5 12.8
Source of Sample		Flowline
Rm @ Meas. Temp		0.50 @ 60
Rmf @ Meas. Temp		0.38 @ 60
Rmc @ Meas. Temp		0.68 @ 60
Source of Rmf / Rmc		Charts
Rm @ BHT		0.25 @ 122
Operating Rig Time		5 Hours
Max Rec. Temp. F		122
Equipment Number		91
Location		Hays
Recorded By		D. Schmidt
Witnessed By		Jason Alm

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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

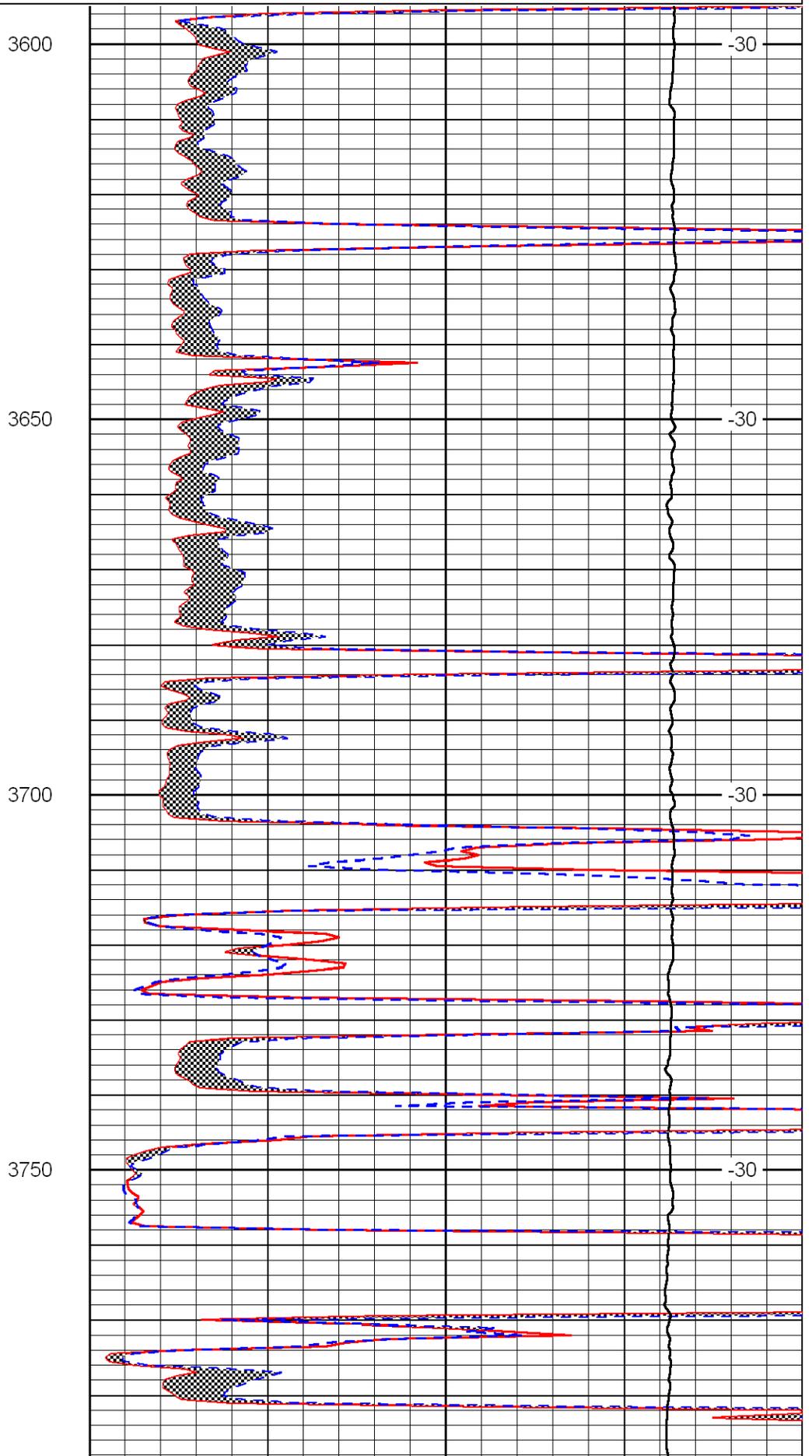
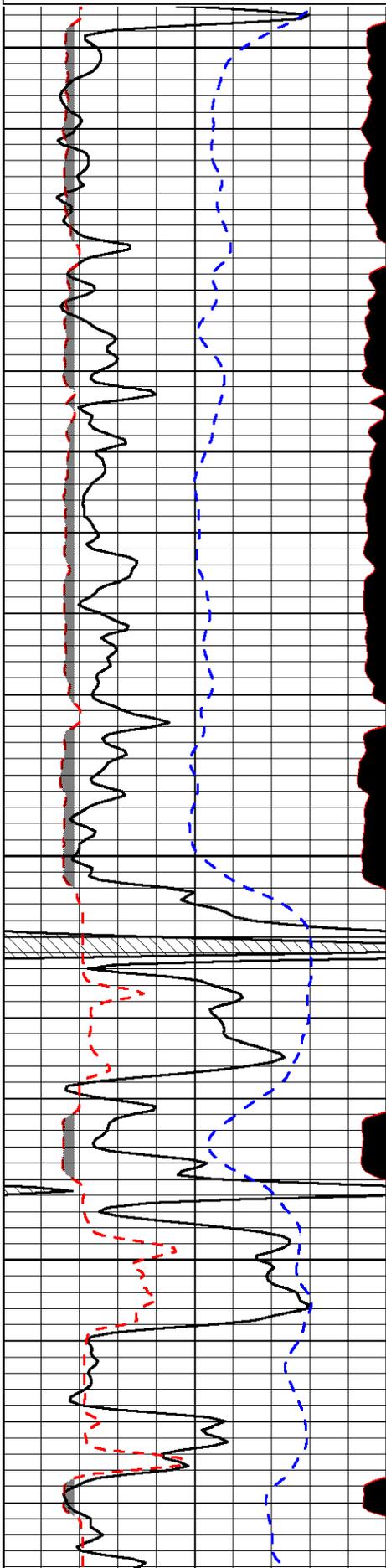
Thank you for using Log-Tech, Inc.  
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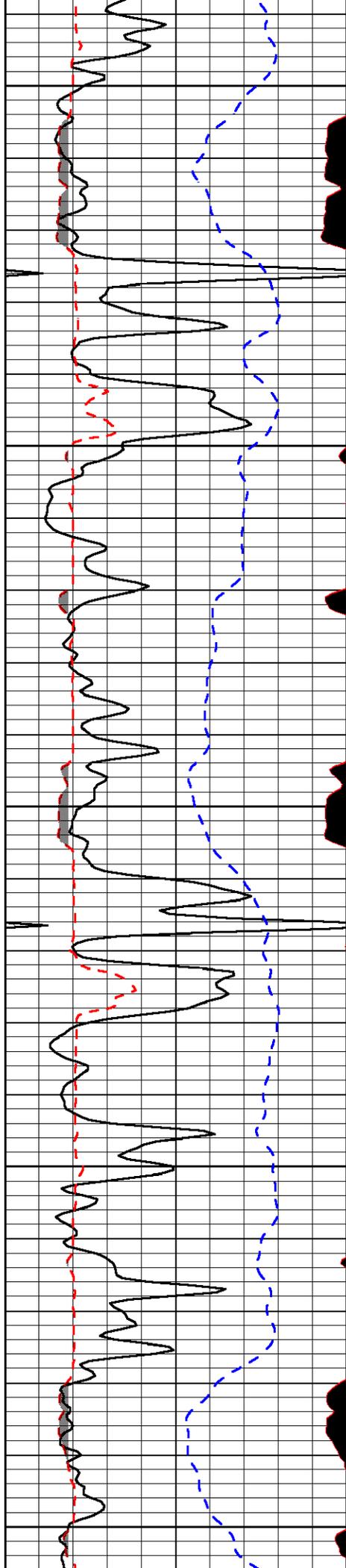
Bazine,  
 11 South on DD Rd to 20 Rd, 1 West, 2 South to Hodgeman Co. Line,  
 2 1/2 West, 2 South, W & S into

Database File:	dk_060612hd.db
Dataset Pathname:	dil/dkstack
Presentation Format:	micro
Dataset Creation:	Wed Jun 06 05:02:11 2012
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	0

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





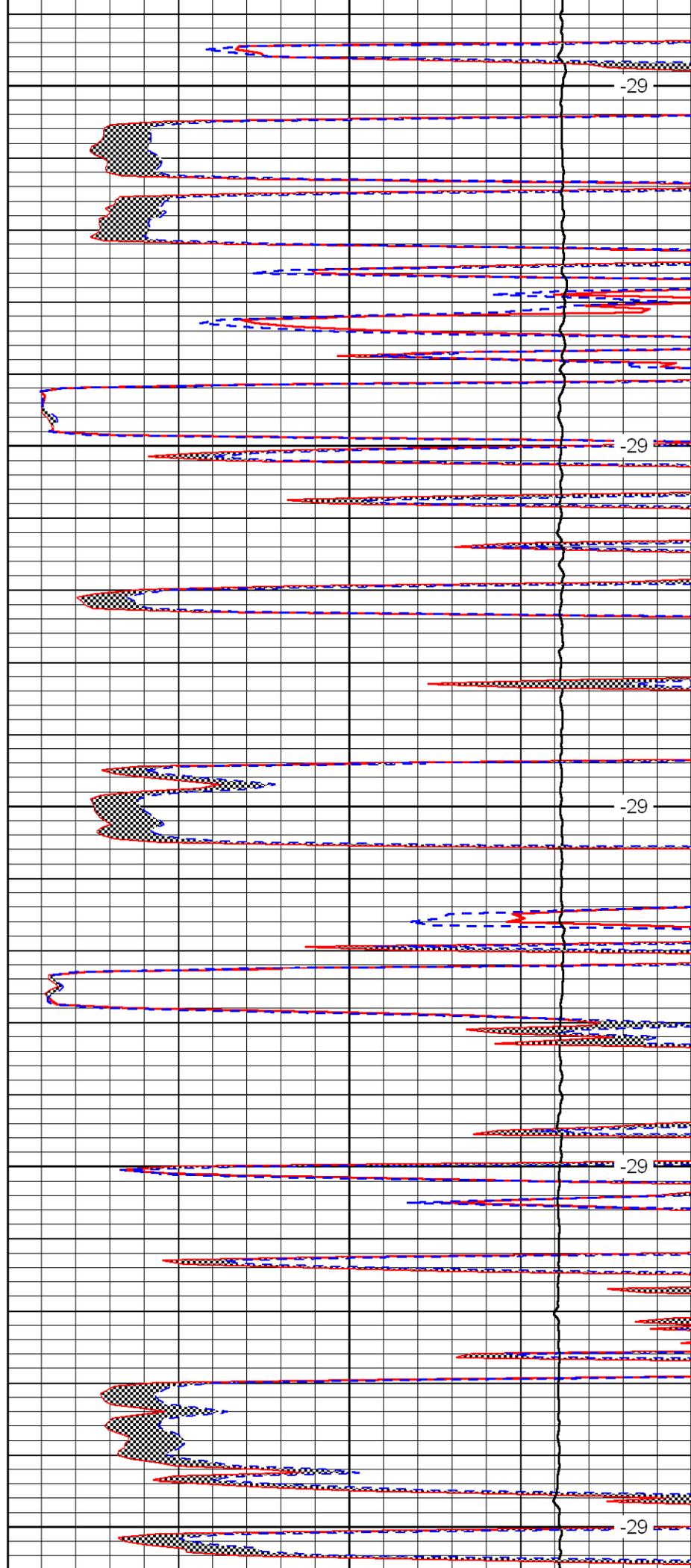
3800

3850

3900

3950

4000



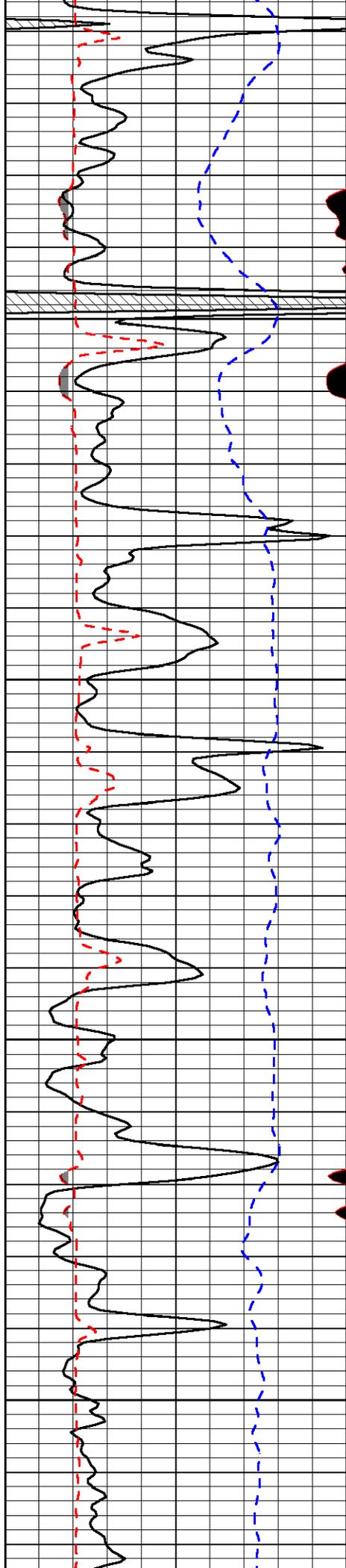
-29

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-29

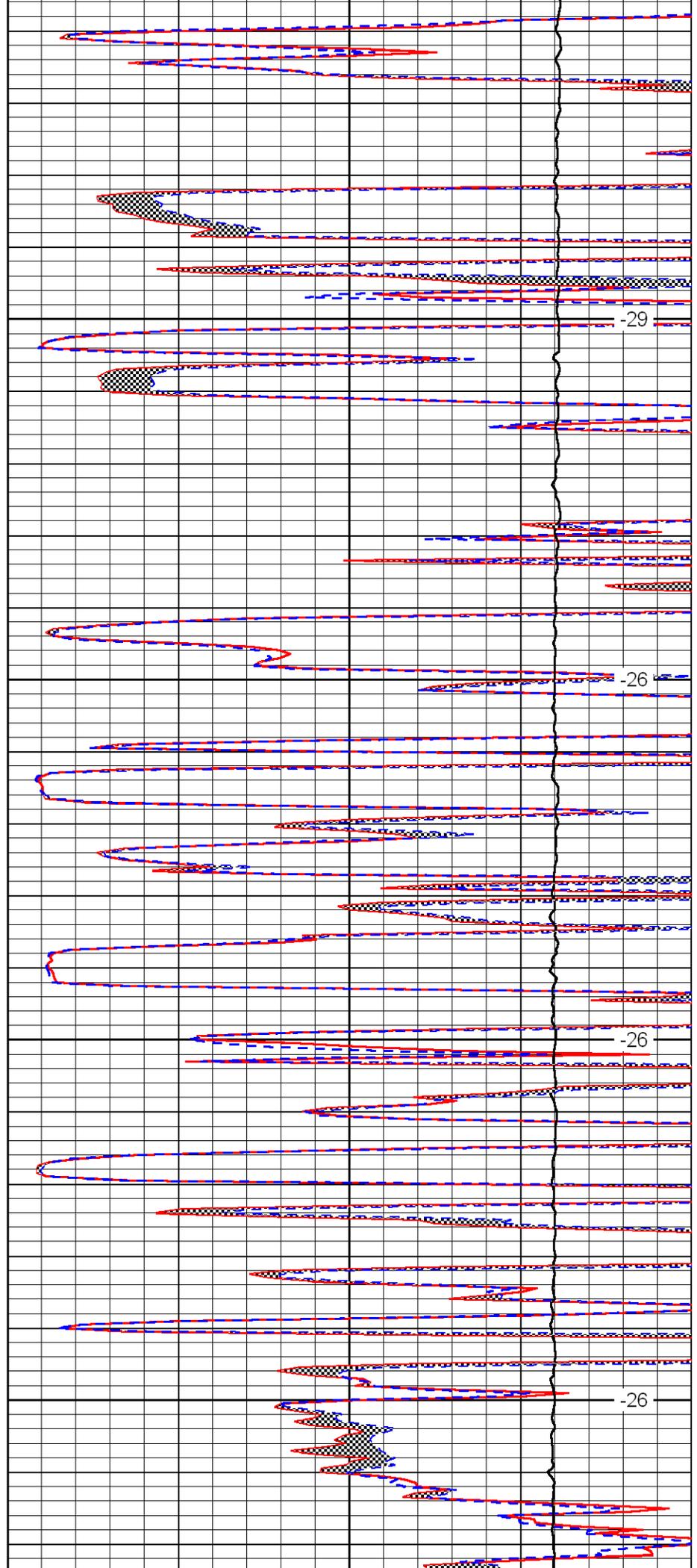


4050

4100

4150

4200

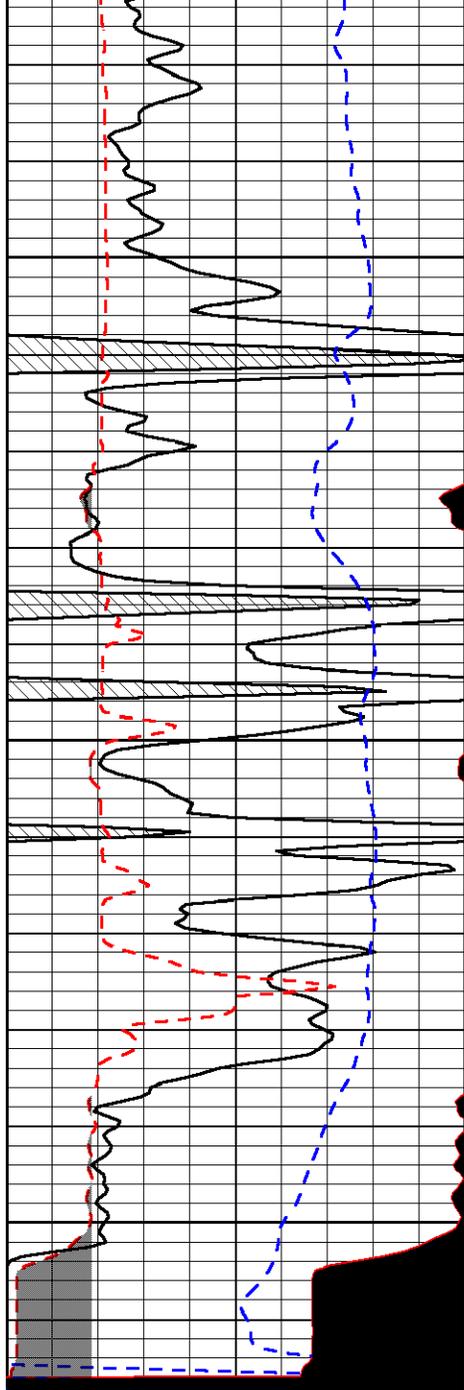


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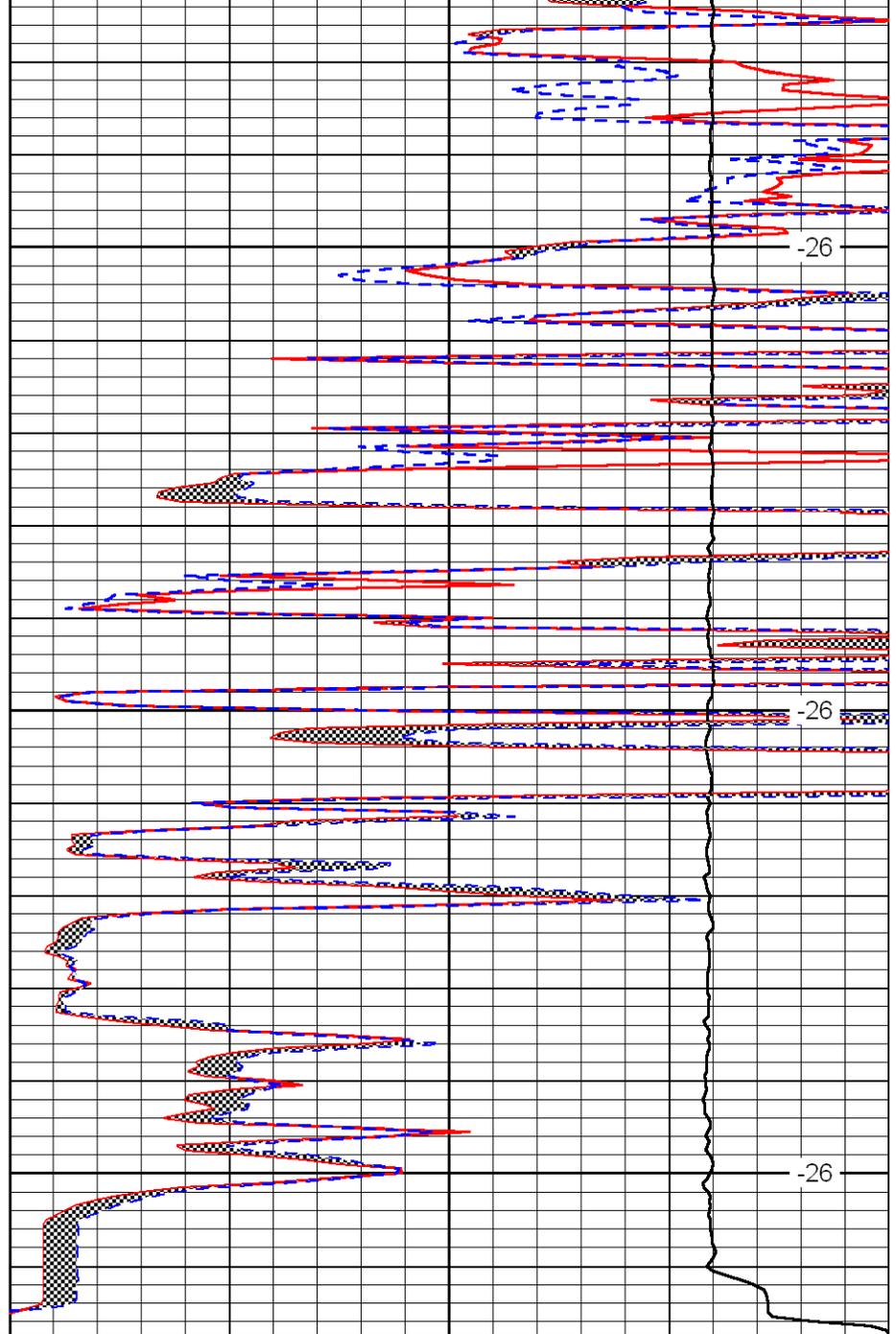


0	Gamma Ray	150
6	MCAL (GAPI)	16
2.875	Mud Cake (GAPI)	7.875
-200	SP	0

4250

4300

4350



-26

-26

-26

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