



Microresistivity Log

DIGITAL LOG (785) 625-3858

API No.	15-179-21,227-00-00		
Company	Murfin Drilling Co., Inc.		
Well	Alwhit No. 2-21		
Field	Lombardy		
County	Sheridan	State	Kansas
Location	800' FNL & 1200' FWL		
Sec: 21	Twp: 9 S	Rge: 27 W	
Permanent Datum	Ground Level	Elevation 2741	Other Services CNL/CDL DIL/BHCS
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	
Drilling Measured From	Frotkelly Bushing		Elevation K.B. 2746 D.F. 2741 G.L. 2741

Date	4/22/09	
Run Number	Two	
Depth Driller	4475	
Depth Logger	4474	
Bottom Logged Interval	4473	
Top Log Interval	3500	
Casing Driller	8.625 @ 279	
Casing Logger	279	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	1.600	
Density / Viscosity	9.1	56
pH / Fluid Loss	11.5	6.0
Source of Sample	Flowline	
Rm @ Meas. Temp	.92 @ 73	
Rmf @ Meas. Temp	.69 @ 73	
Rmc @ Meas. Temp	1.24 @ 73	
Source of Rmf / Rmc	Charts	
Rm @ BHT	.55 @ 123	
Operating Rig Time	6 Hours	
Max Rec. Temp. F	123	
Equipment Number	4	
Location	Hays	
Recorded By	K. Bange	
Witnessed By	Brad Rine	

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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

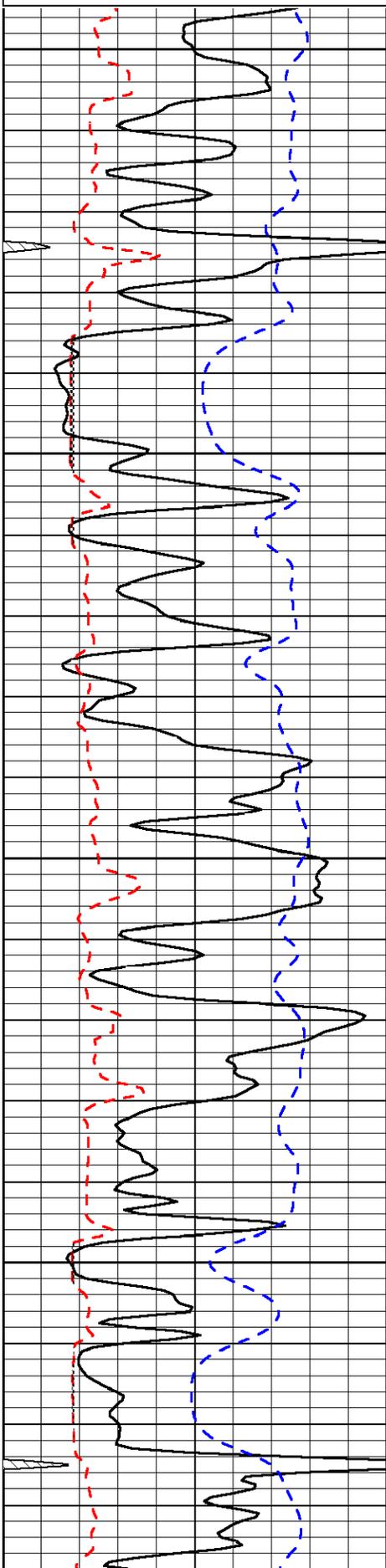
E Grainfield exit on I-70, 11 N to rd 70 S, 5 1/2 E, S into

Database File: c:\warrior\data\murfin_alwhit no. 2-21\murfhd.db
 Dataset Pathname: dil/murf2in
 Presentation Format: micro
 Dataset Creation: Wed Apr 22 15:16:56 2009
 Charted by: Depth in Feet scaled 1:240

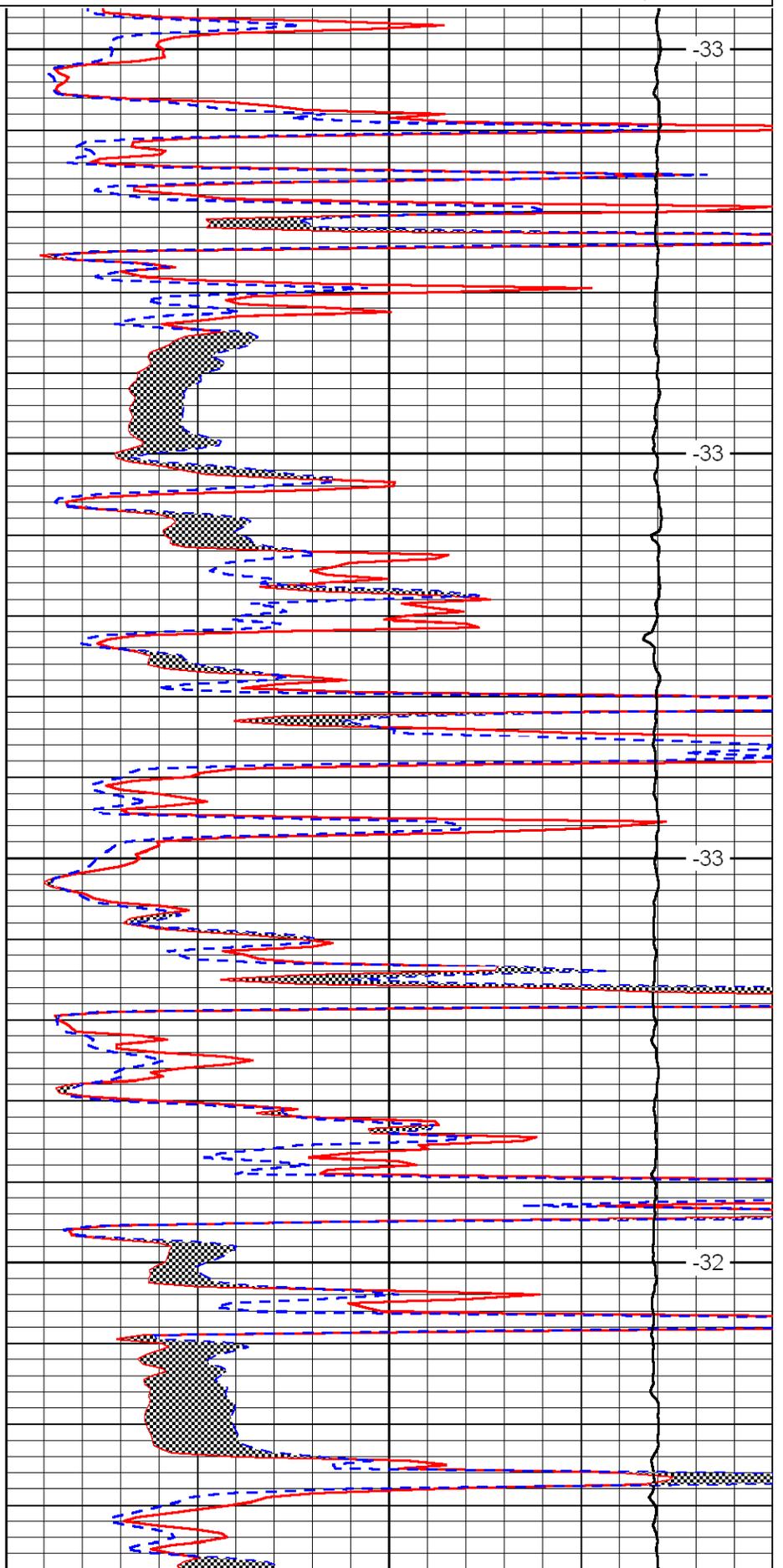
0	Gamma Ray	150
6	Micro Log Caliper (in)	16
-200	SP (MV)	0

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

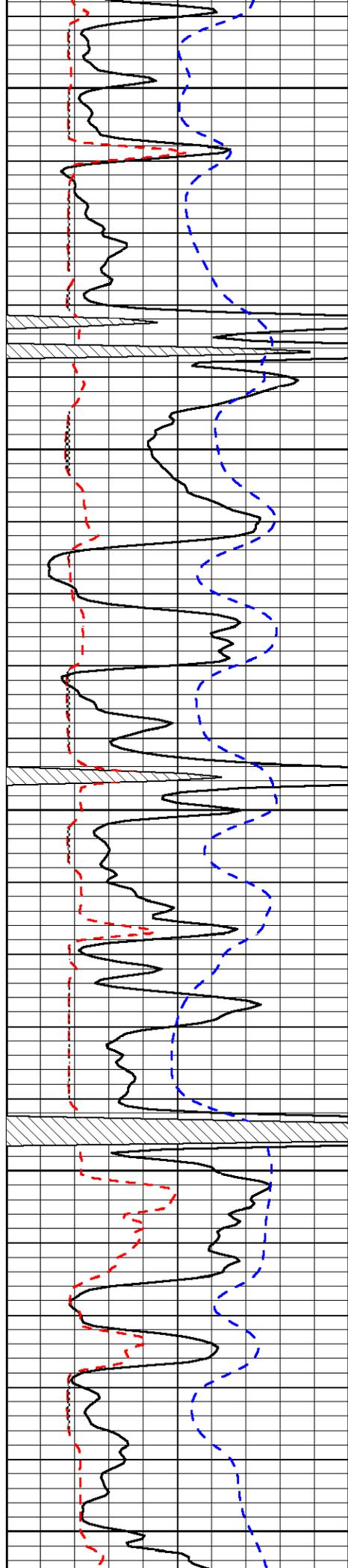
LSPD
(ft/min)



3500
3550
3600
3650



-33
-33
-33
-32



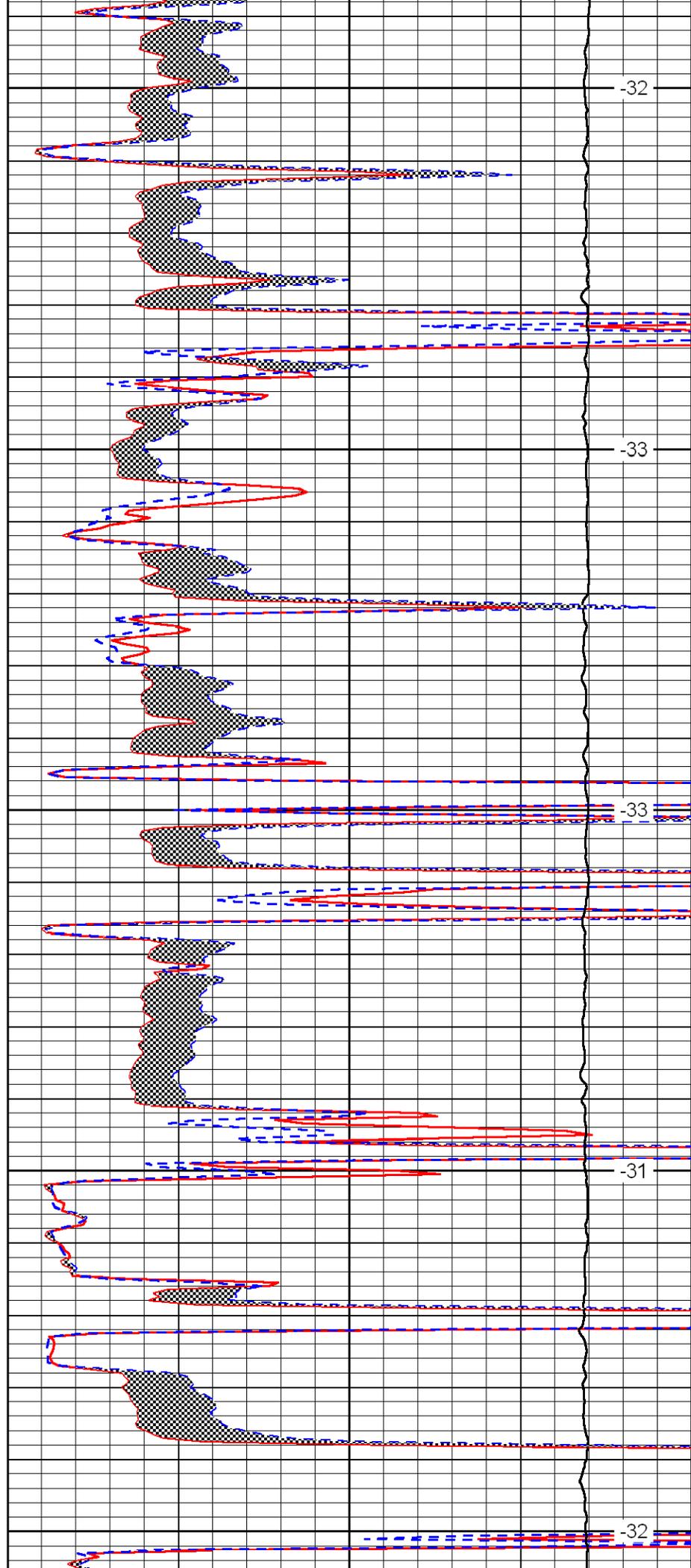
3700

3750

3800

3850

3900



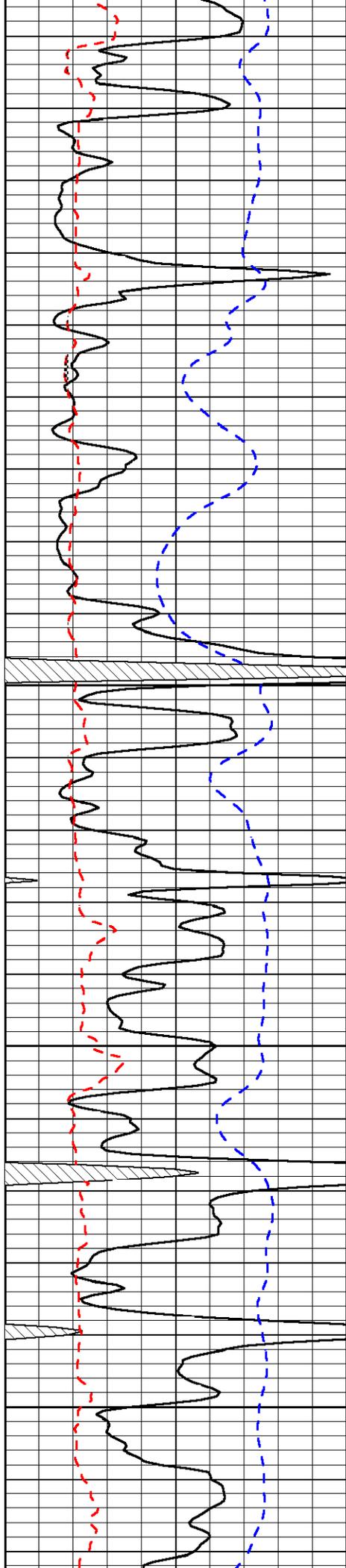
-32

-33

-33

-31

-32

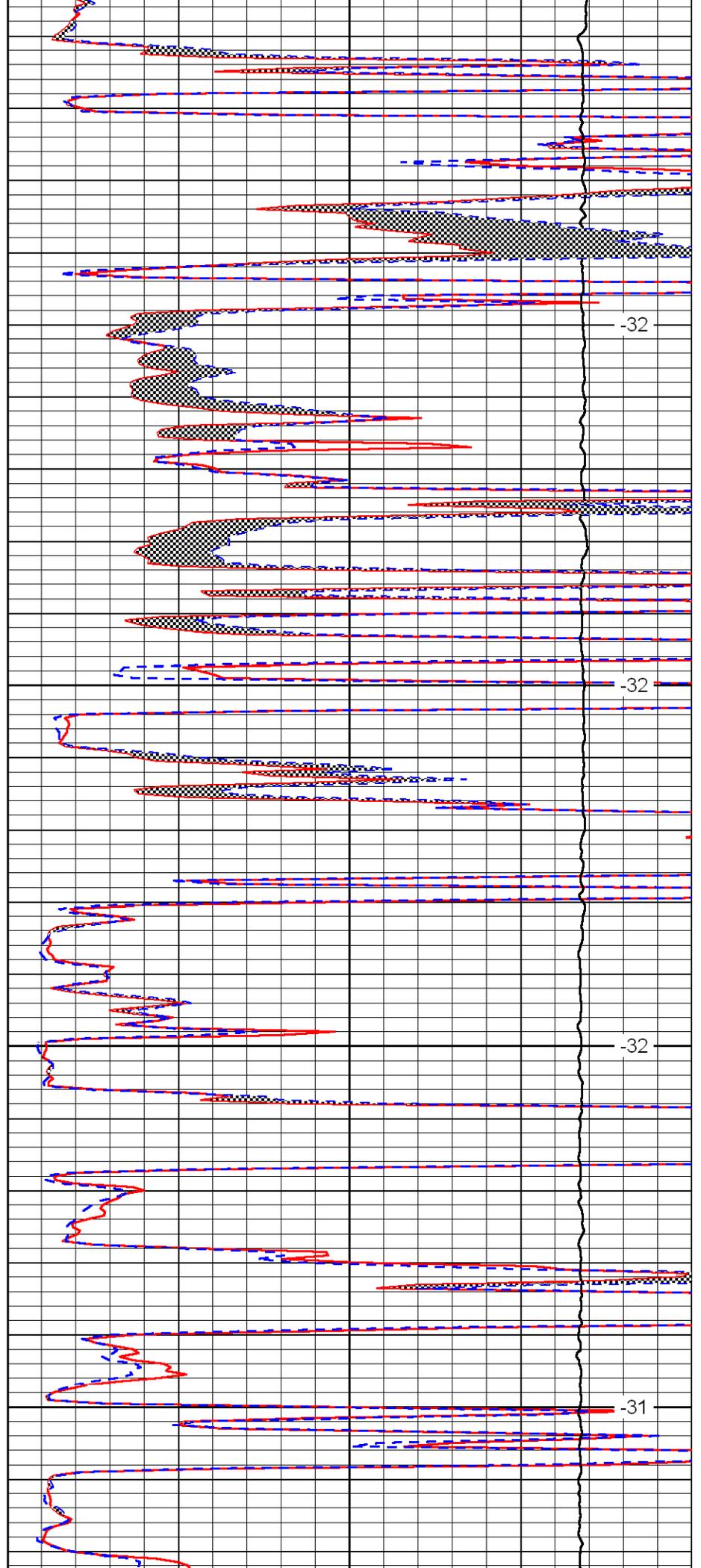


3950

4000

4050

4100

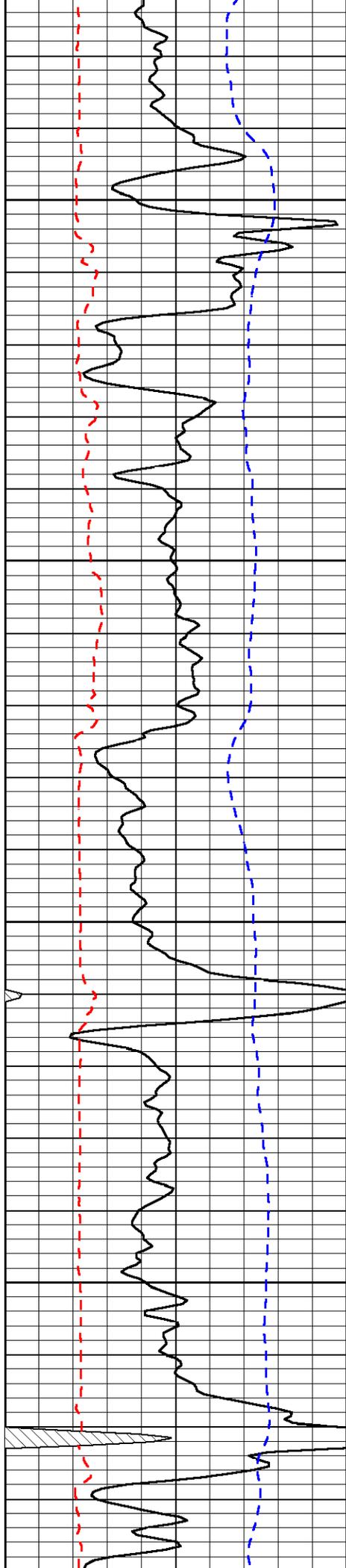


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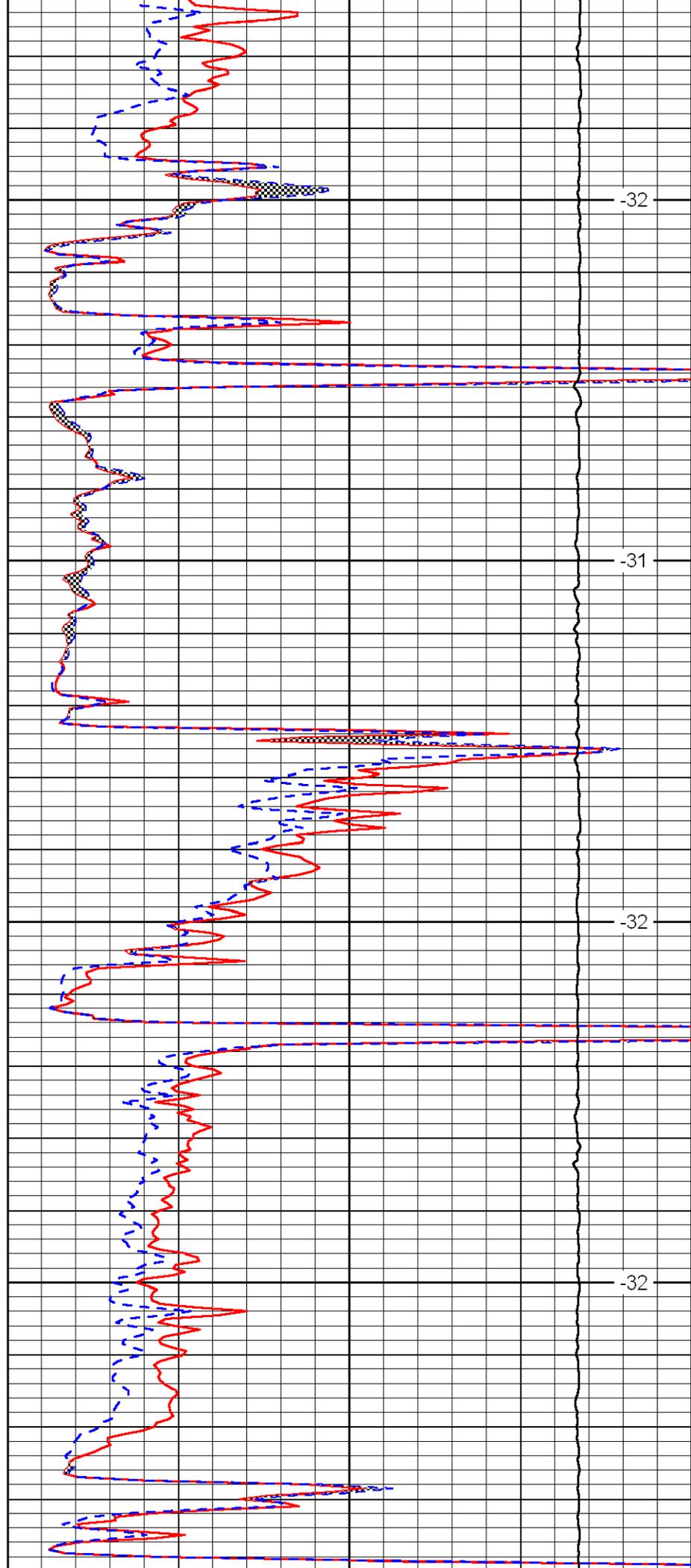


4150

4200

4250

4300

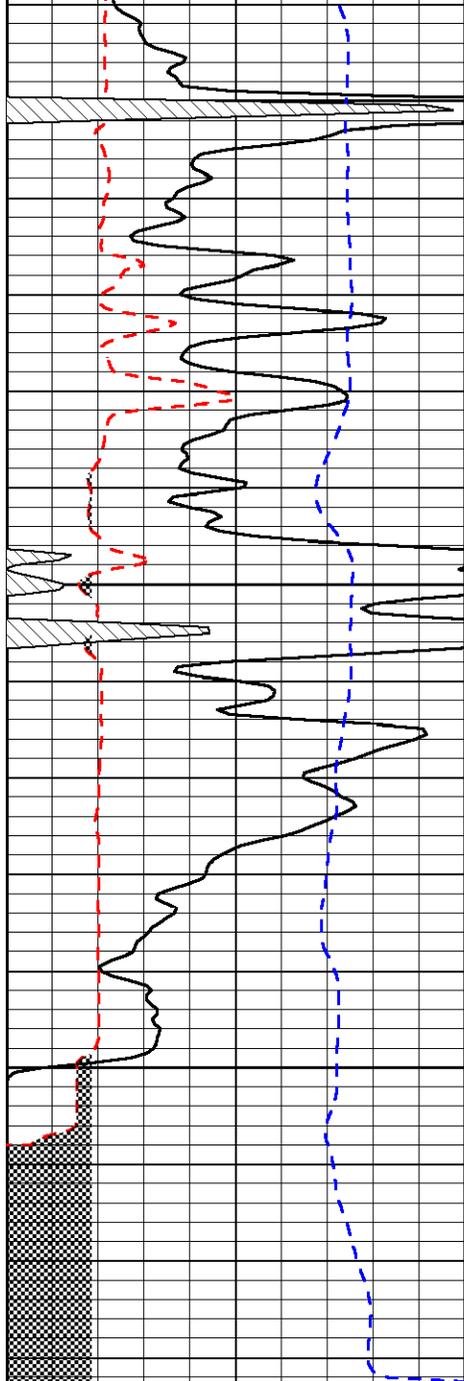


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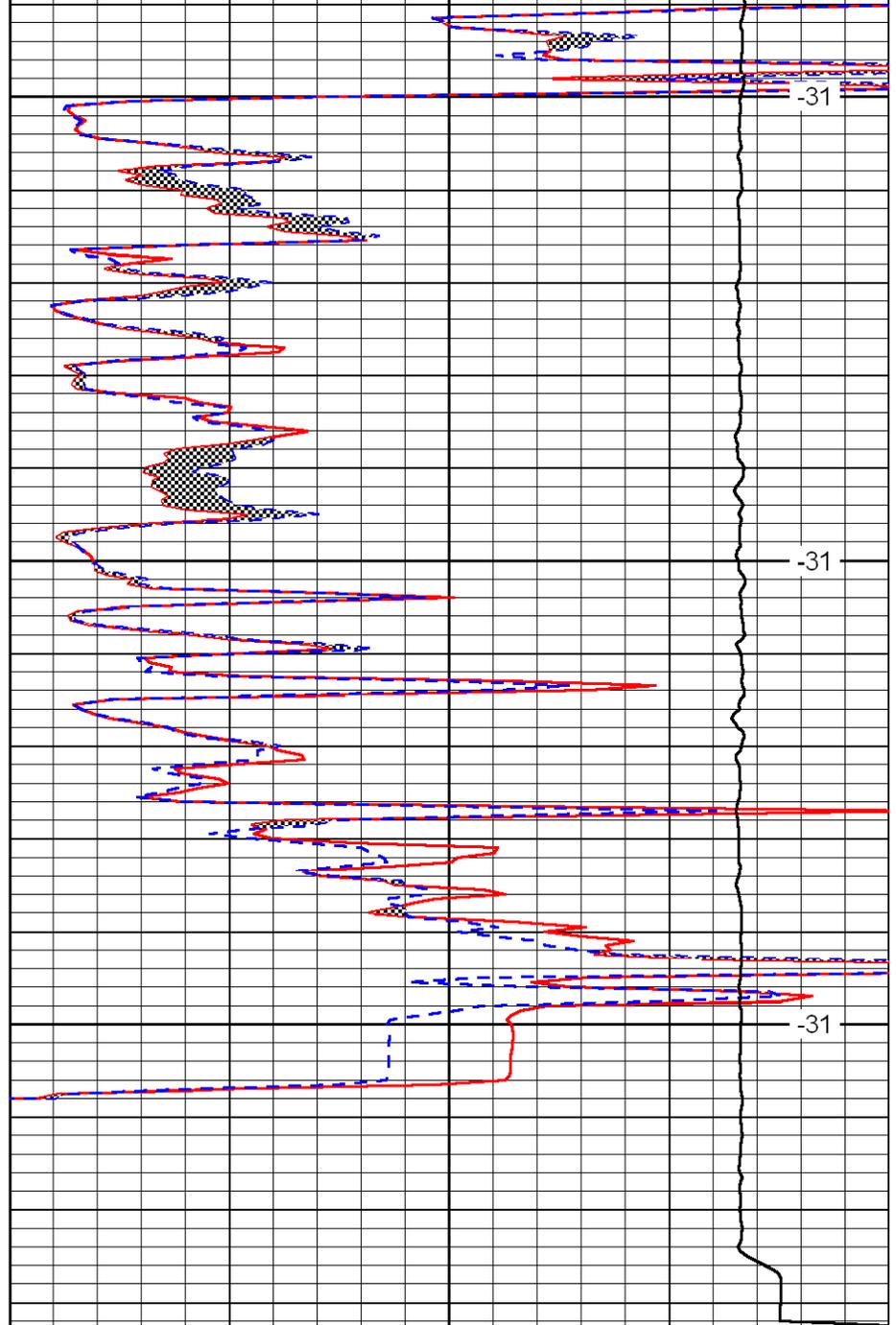
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-32



4350
4400
4450

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LSPD
(ft/min)