



Pioneer Energy Services

Microresistivity Log

API No. 15-051-26,534-00-00

Company **TDI, Inc.**
 Well **Bieler No. 1**
 Field **Virginia**
 County **Elis** State **Kansas**

Location **N2 NE SW SE
 1250' FSL & 1650' FEL**

Other Services
 CNL/CDL
 DIL

Sec: **9** Twp: **15 S** Rge: **19 W**

Permanent Datum **Ground Level** Elevation **2024**
 Log Measured From **Kelly Bushing** 10 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
 K.B. 2034
 D.F. 2024
 G.L. 2024

Date	7/19/2013
Run Number	Two
Depth Driller	3750
Depth Logger	3749
Bottom Logged Interval	3748
Top Log Interval	2800
Casing Driller	8.625 @ 223
Casing Logger	221
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm Cl	3200
Density / Viscosity	9.3 56
pH / Fluid Loss	10.5 8.0
Source of Sample	Flowline
Rm @ Meas. Temp	.22 @ 84
Rmf @ Meas. Temp	.17 @ 84
Rmc @ Meas. Temp	.30 @ 84
Source of Rmf / Rmc	Charts
Rm @ BHT	.16 @ 114
Operating Rig Time	3 1/2 Hours
Max Rec. Temp. F	114
Equipment Number	108
Location	Hays
Recorded By	D. Martin
Witnessed By	Herb Deines

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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

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 (785) 625-3858

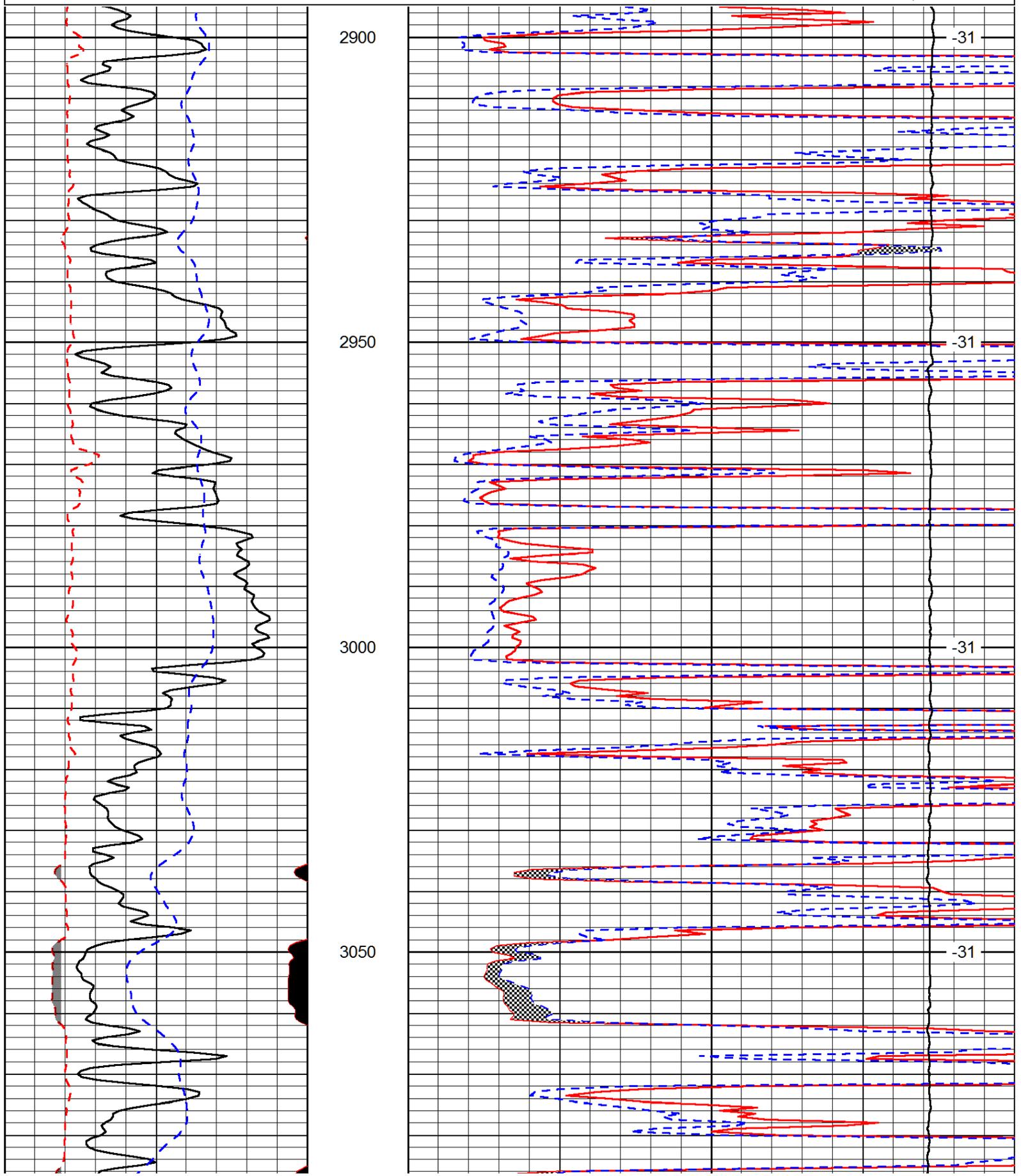
Antonino, KS
 2 W, 2 S, 1/4 W, N Into

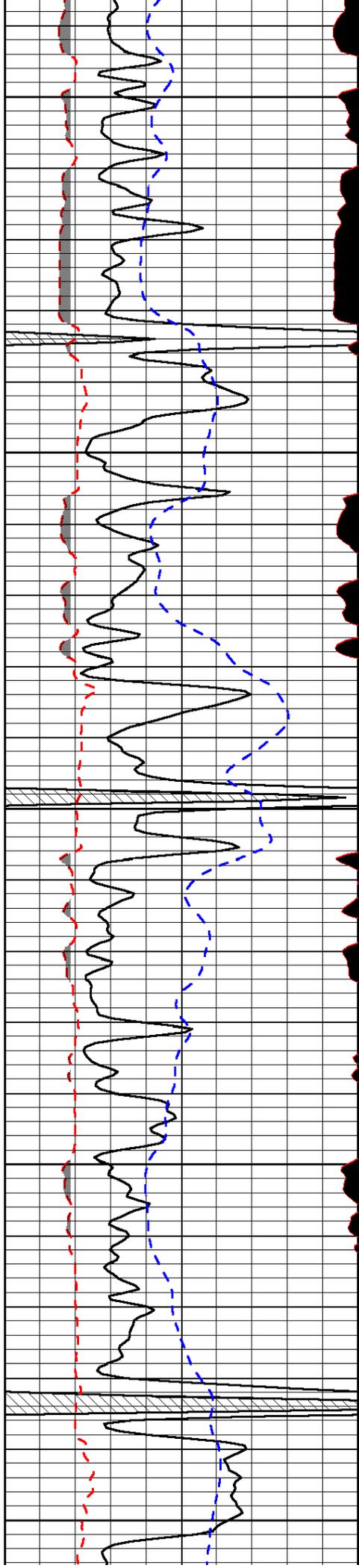
Database File: tdi_bieler_1hd.db
 Dataset Pathname: dil/tdistk
 Presentation Format: micro
 Dataset Creation: Fri Jul 19 09:22:18 2013
 Charted by: Depth in Feet scaled 1:240

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)





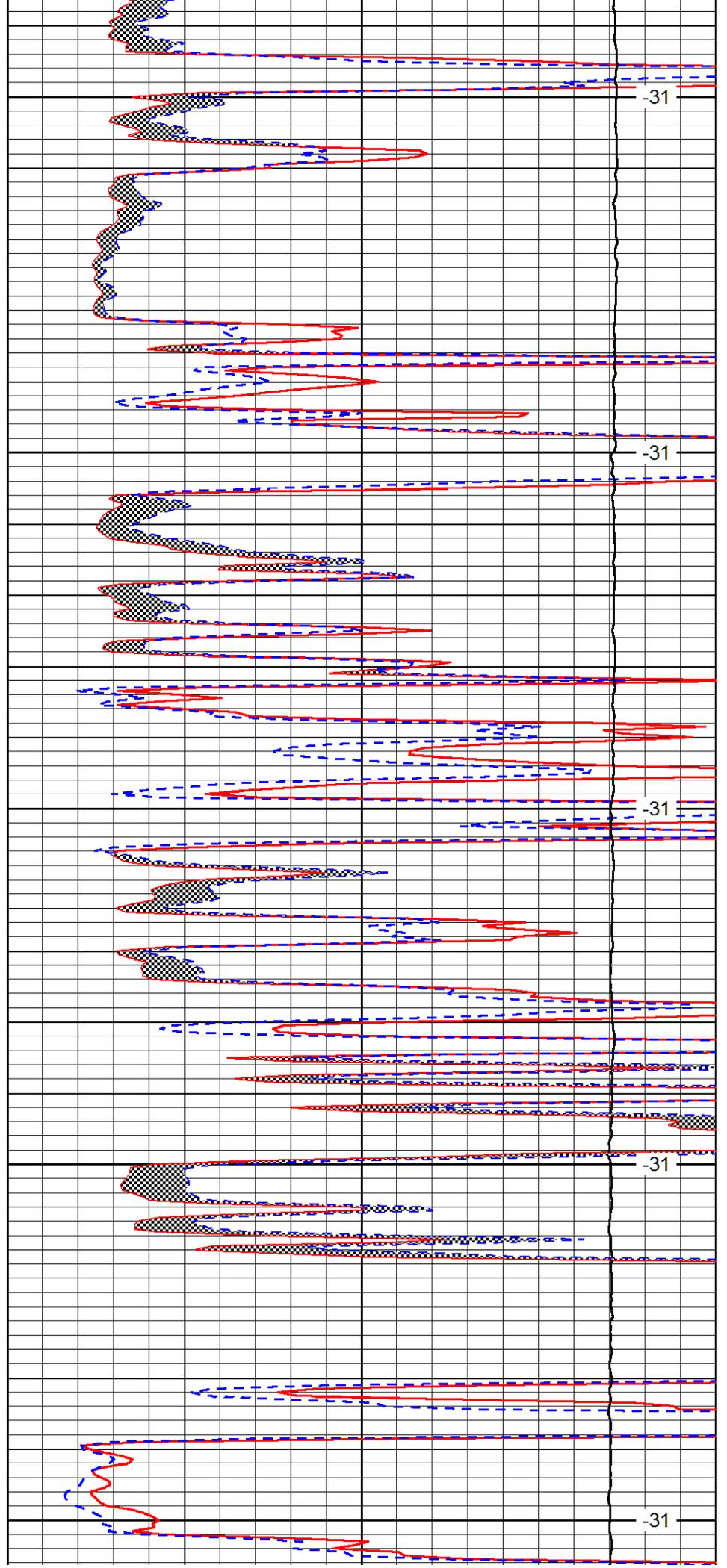
3100

3150

3200

3250

3300



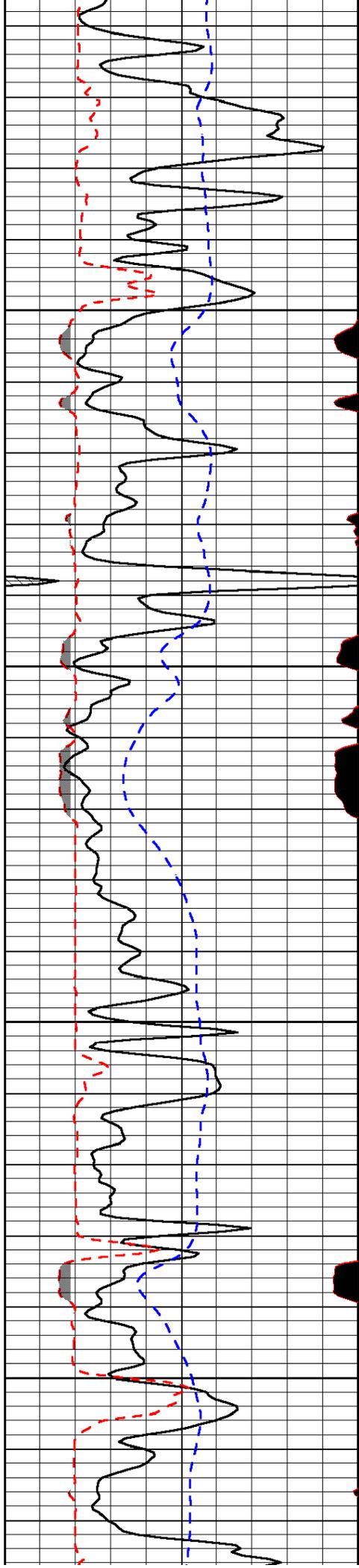
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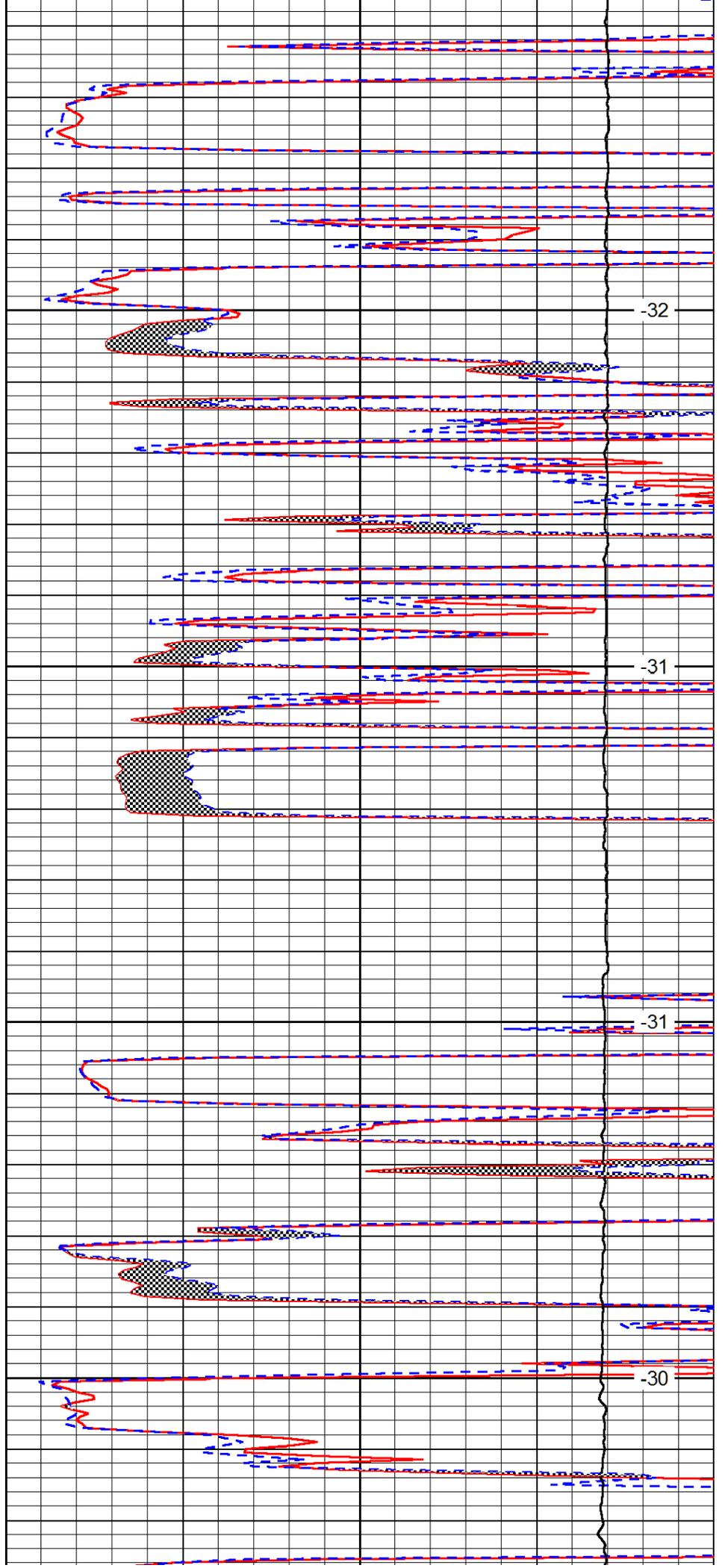


3350

3400

3450

3500

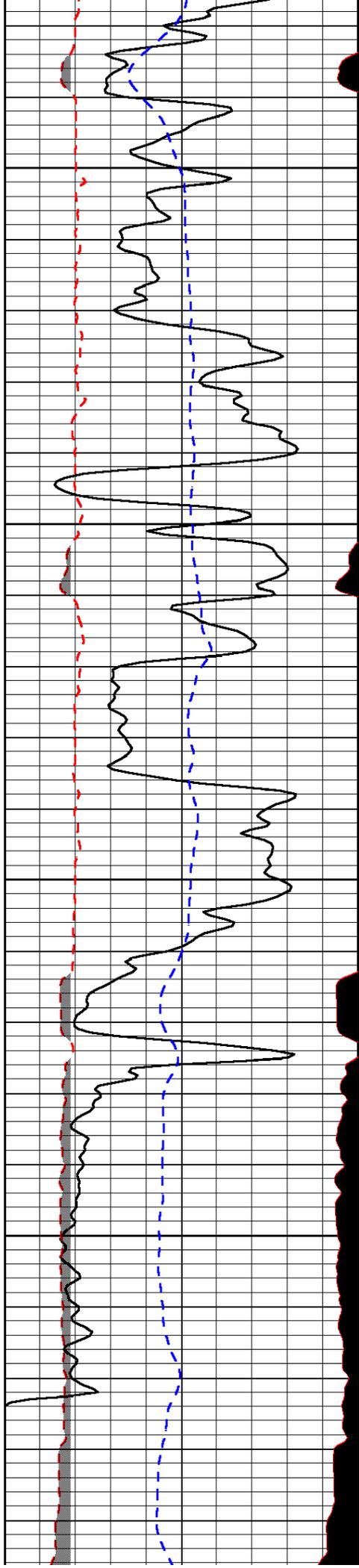


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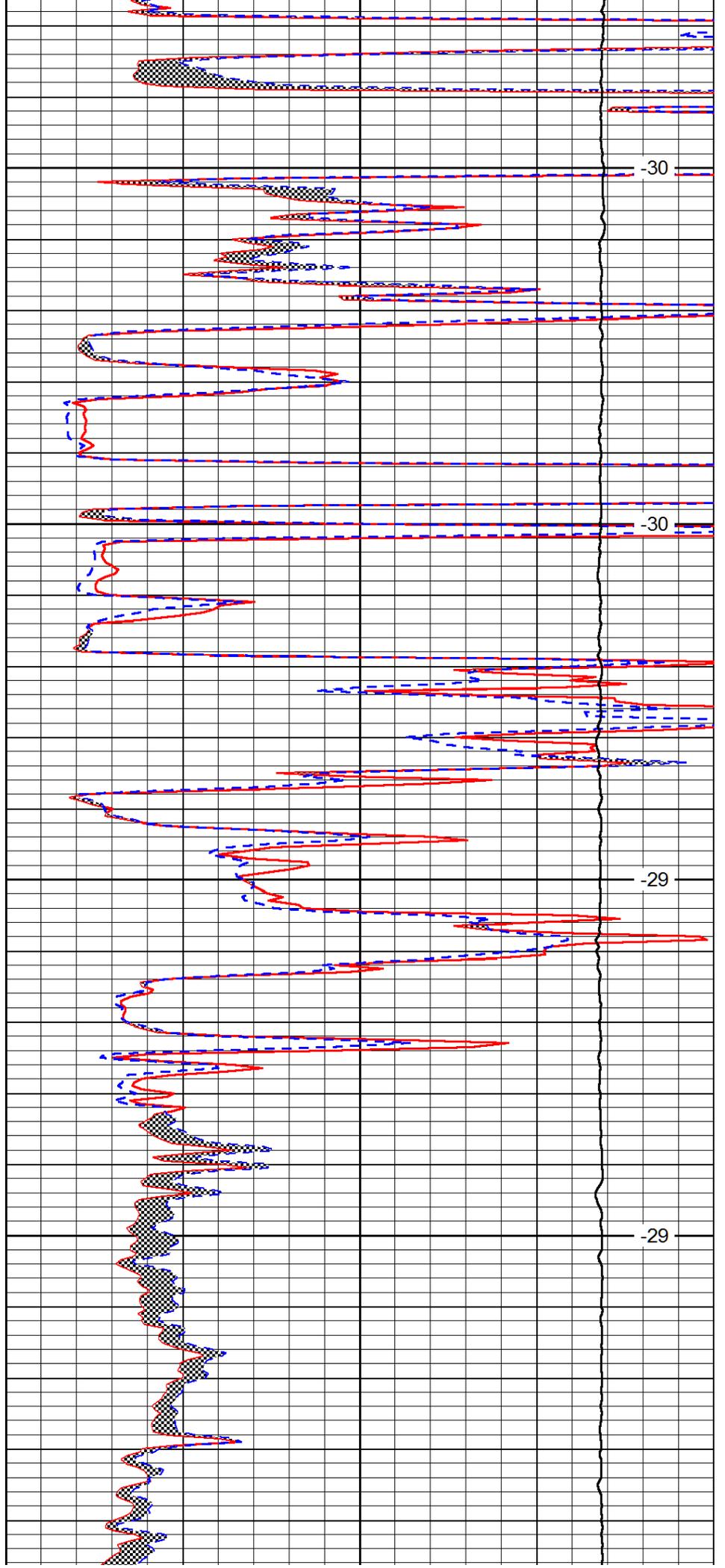


3550

3600

3650

3700

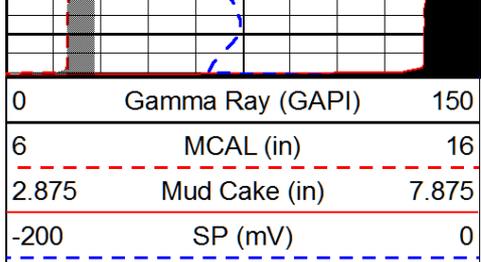


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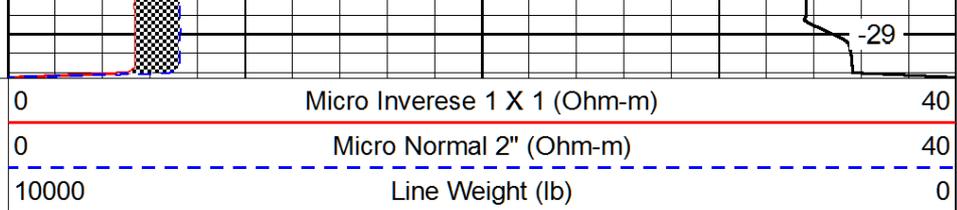
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3750



LSPD
(ft/min)