



Pioneer Energy Services

Microresistivity Log

15-145-21,747-00-00

API No.

Company **H&B Petroleum Corporation**
 Well **Ashworth #1**
 Field **Hurray**
 County **Pawnee** State **Kansas**

Location **1615' FSL & 330' FEL**
 Sec: **3** Twp: **22S** Rge: **15W**

Other Services
 CNL/CDL
 DIL/BHCS

Permanent Datum **Ground Level** Elevation **1973**
 Log Measured From **Kelly Bushing** 10 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Date	1/23/2014	
Run Number	Two	
Depth Driller	4035	
Depth Logger	4034	
Bottom Logged Interval	4033	
Top Log Interval	3000	
Casing Driller	8.625 @ 962	
Casing Logger	960	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	5000	
Density / Viscosity	9.1 52	
pH / Fluid Loss	8.5 9.2	
Source of Sample	Flowline	
Rm @ Meas. Temp	0.43 @ 53	
Rmf @ Meas. Temp	0.32 @ 53	
Rmc @ Meas. Temp	0.58 @ 53	
Source of Rmf / Rmc	Charts	
Rm @ BHT	0.20 @ 116	
Operating Rig Time	5 Hours	
Max Rec. Temp. F	116	
Equipment Number	15	
Location	Hays	
Recorded By	D. Kerr	
Witnessed By	Jim Musgrove	

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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 Pioneer Energy Services
 www.pioneerenergy.com
 785 625 3858

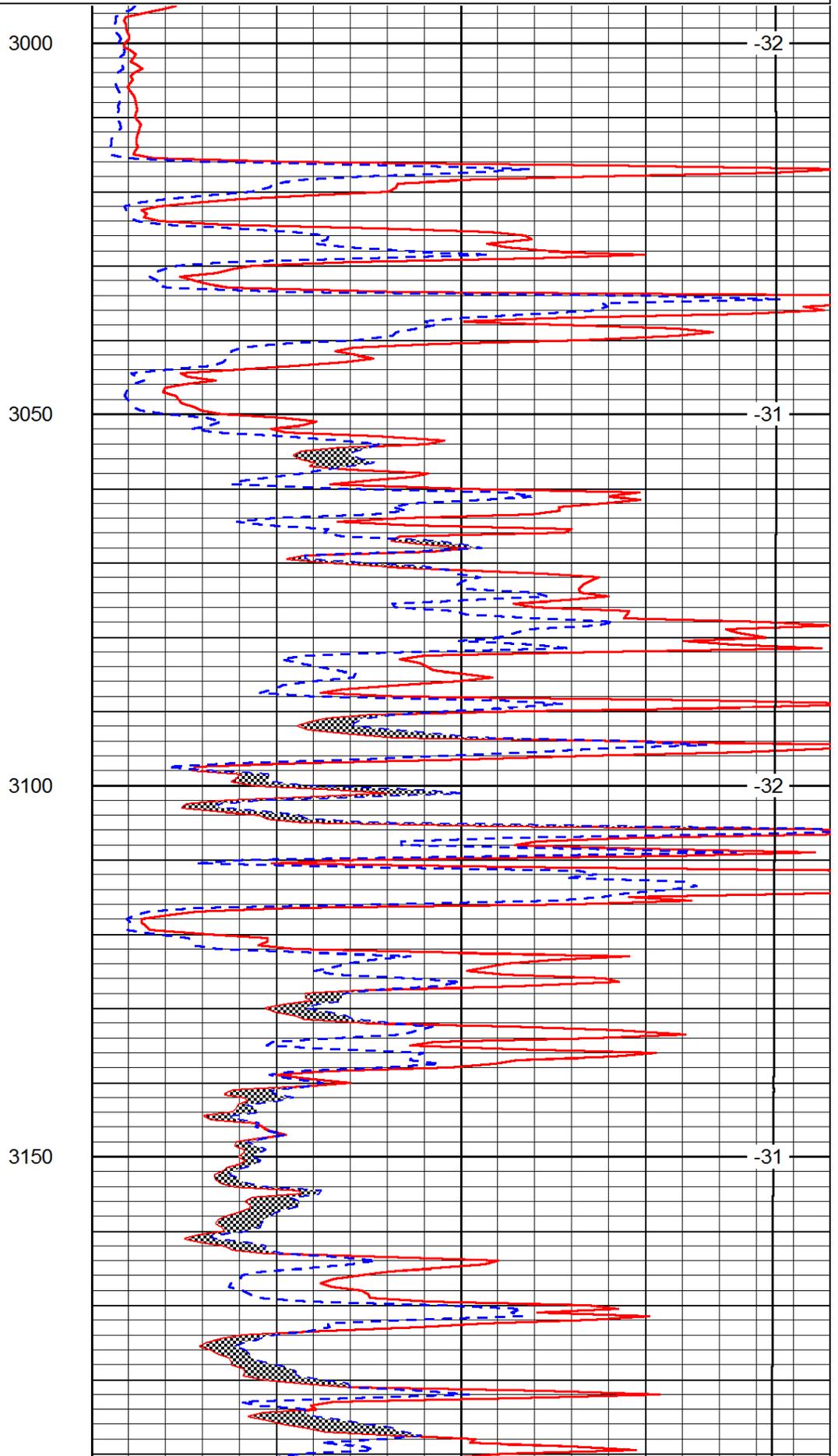
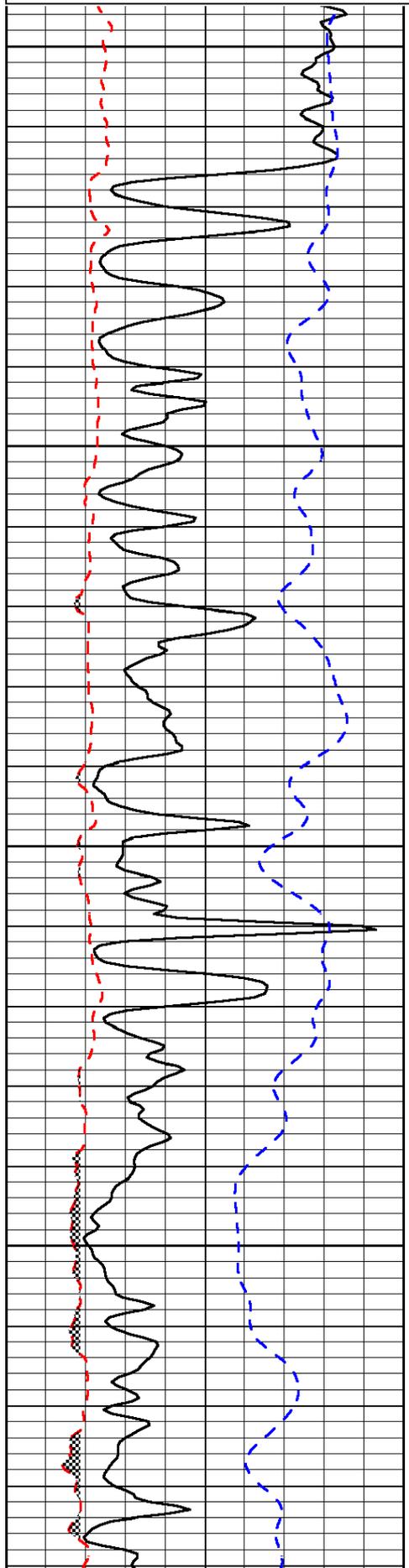
Larned KS, East on K-19 to 30 RD,
 1/2 North, West Into

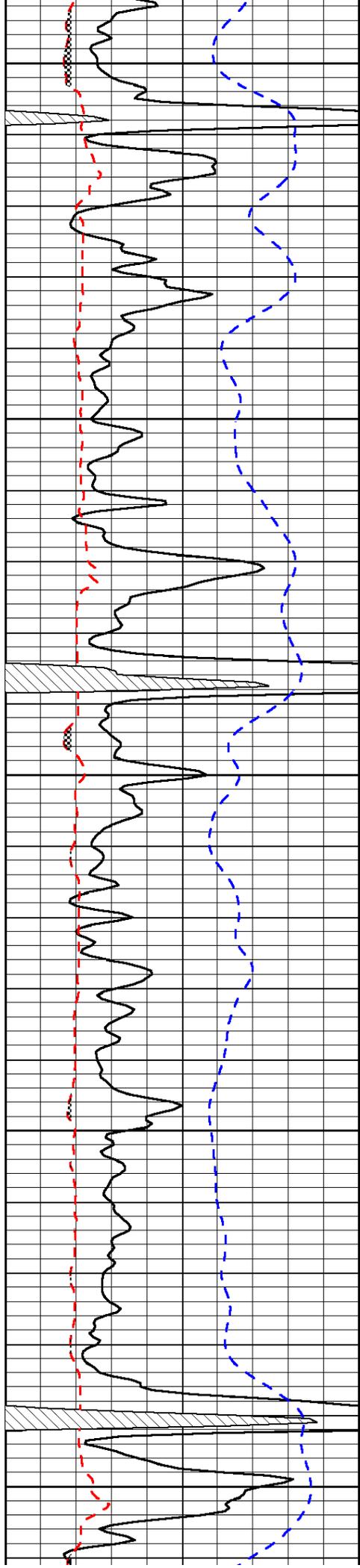
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 Presentation Format: micro
 Dataset Creation: Thu Jan 23 09:01:03 2014
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD





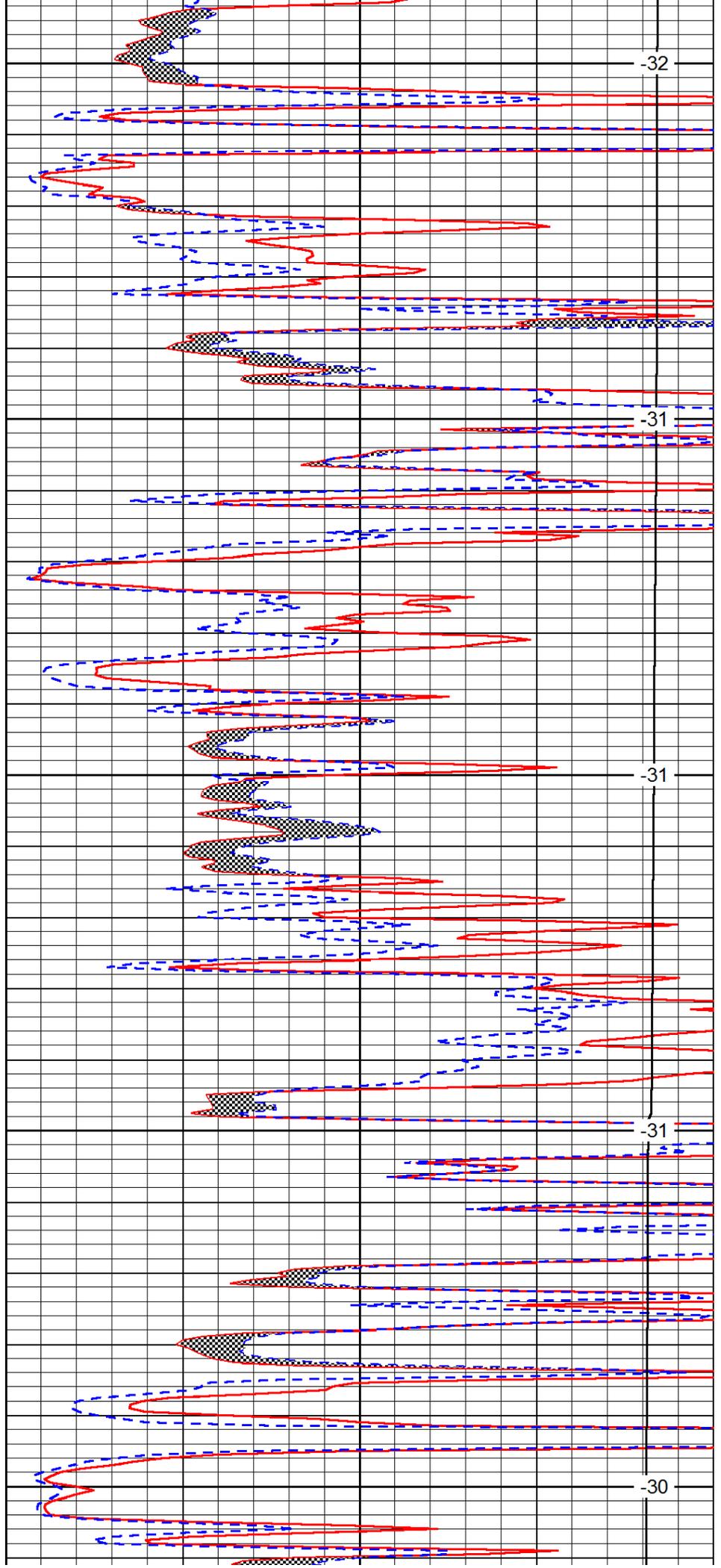
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3250

3300

3350

3400



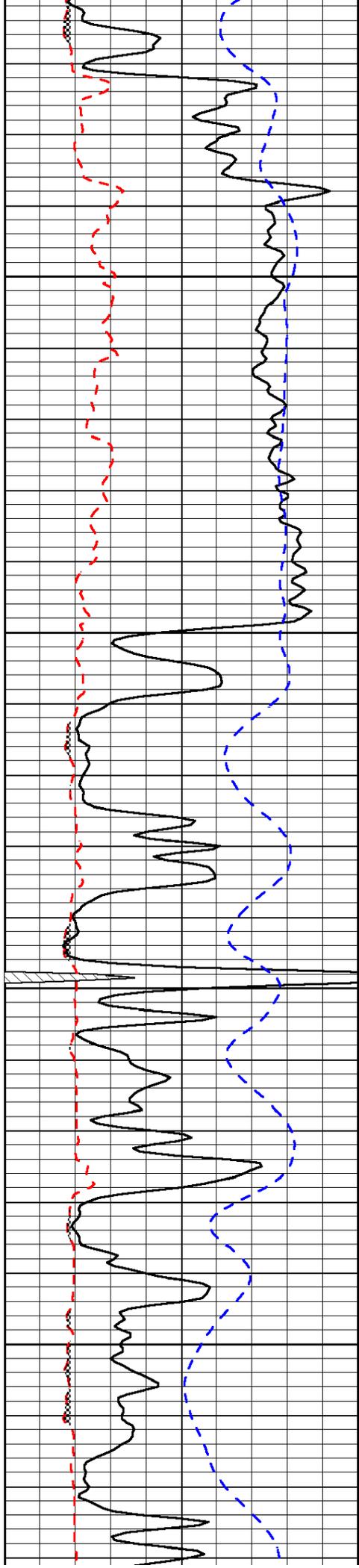
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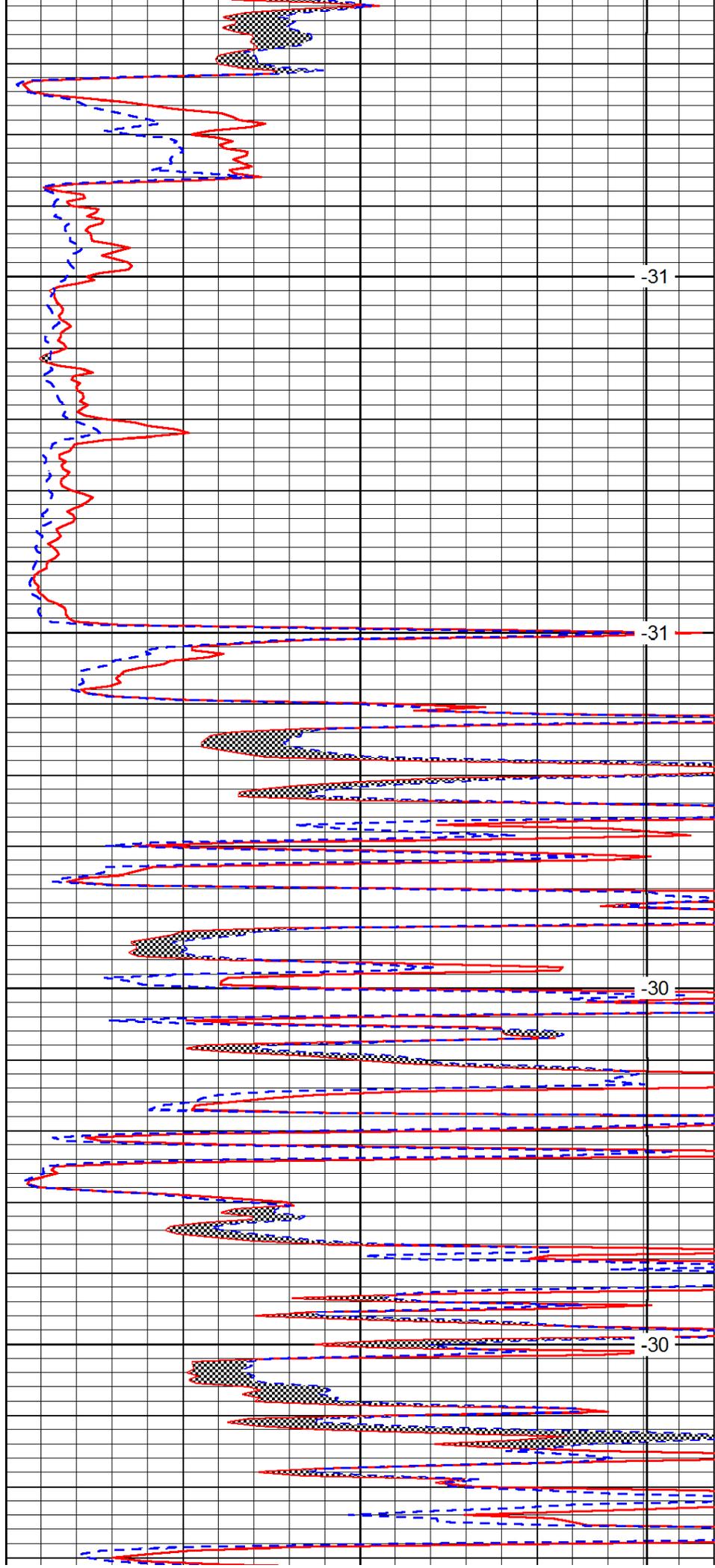


3450

3500

3550

3600

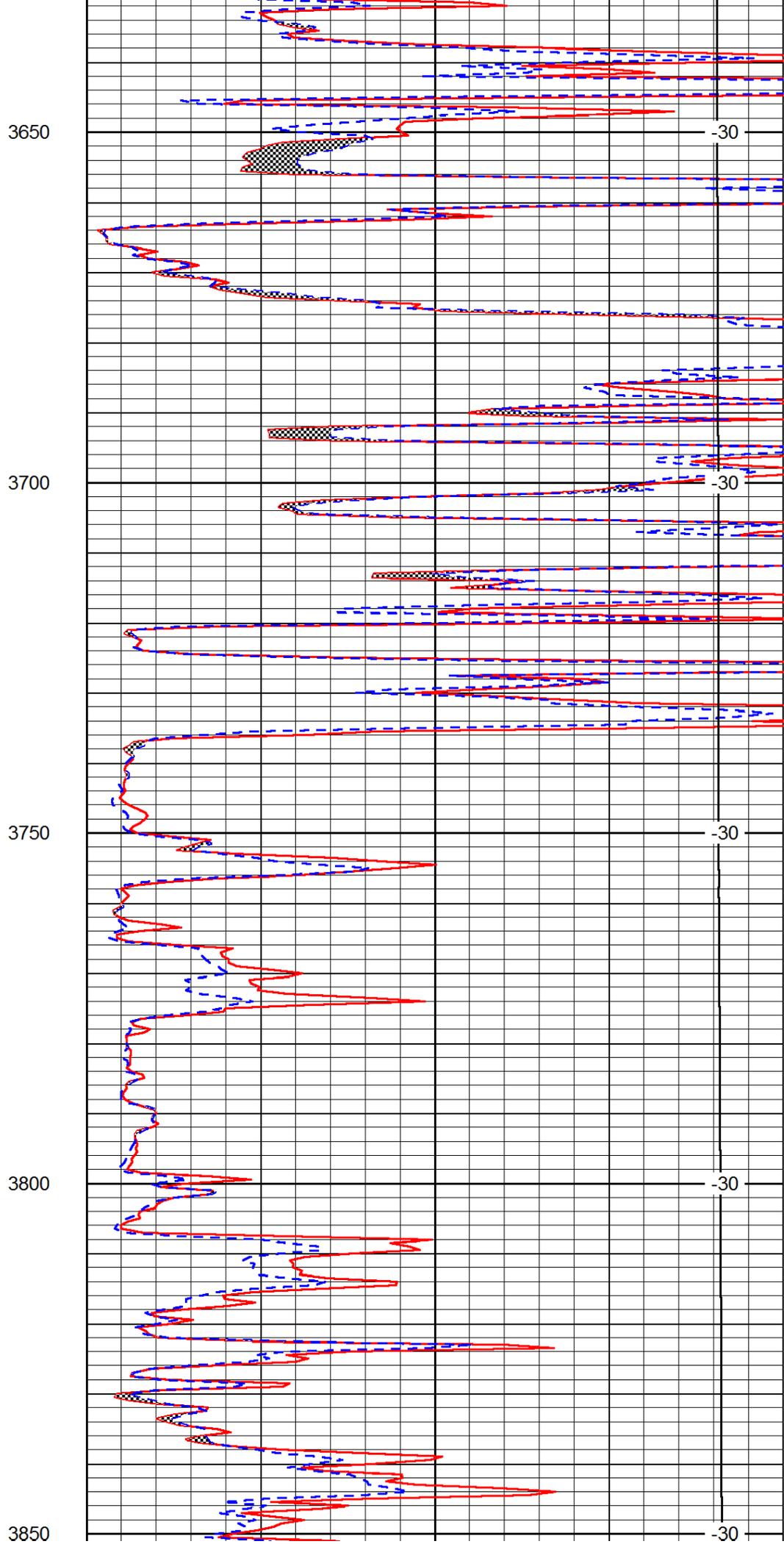
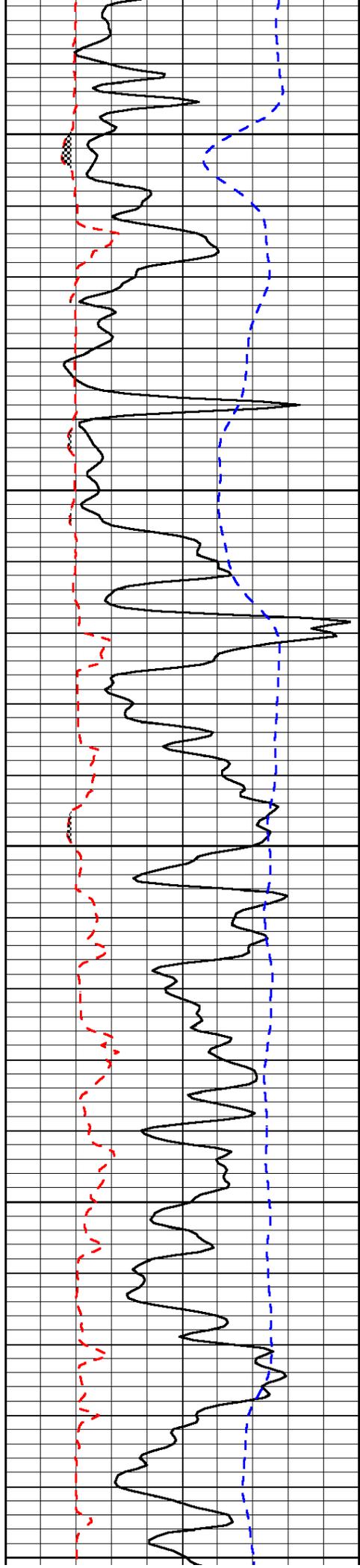


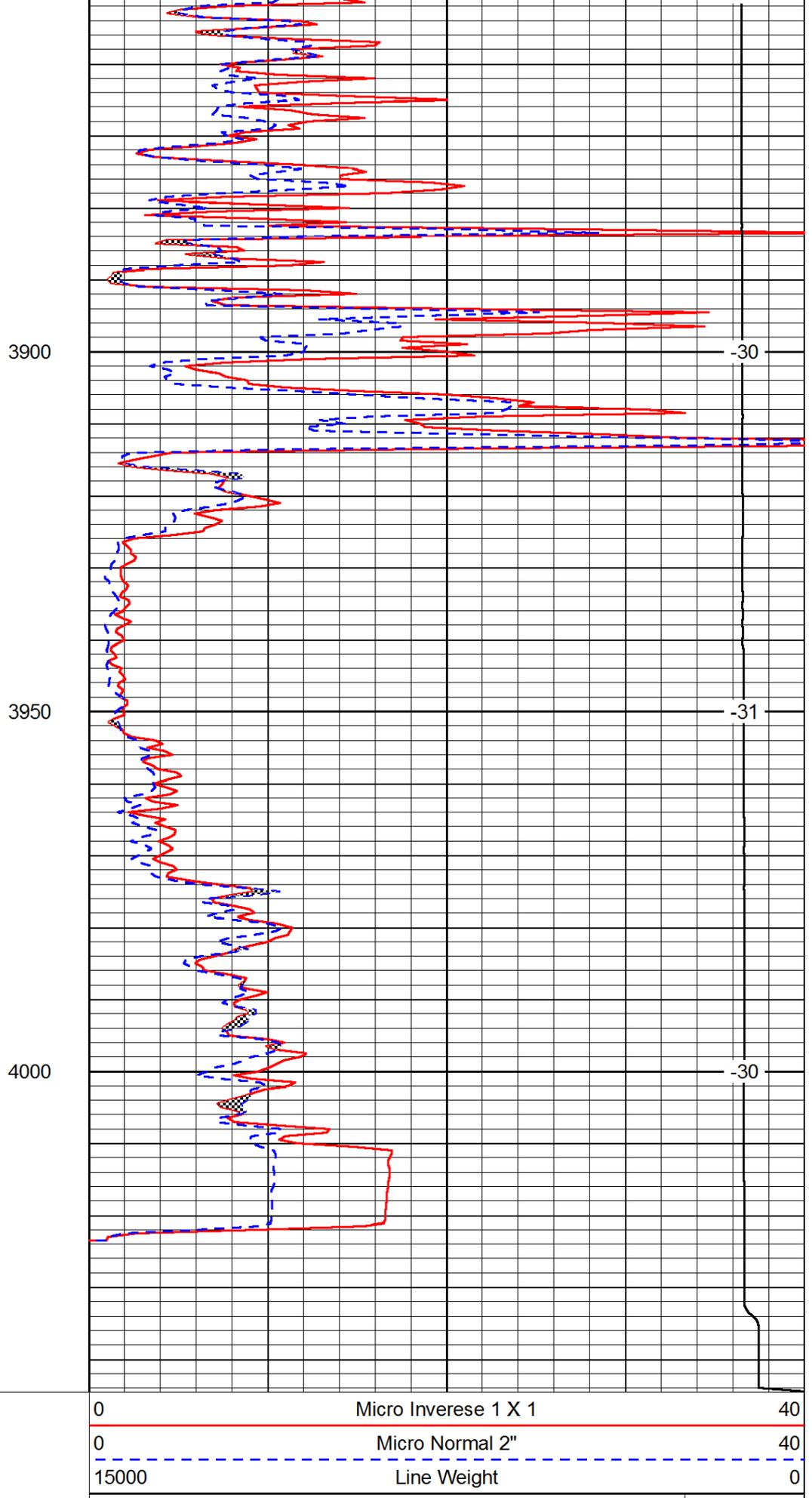
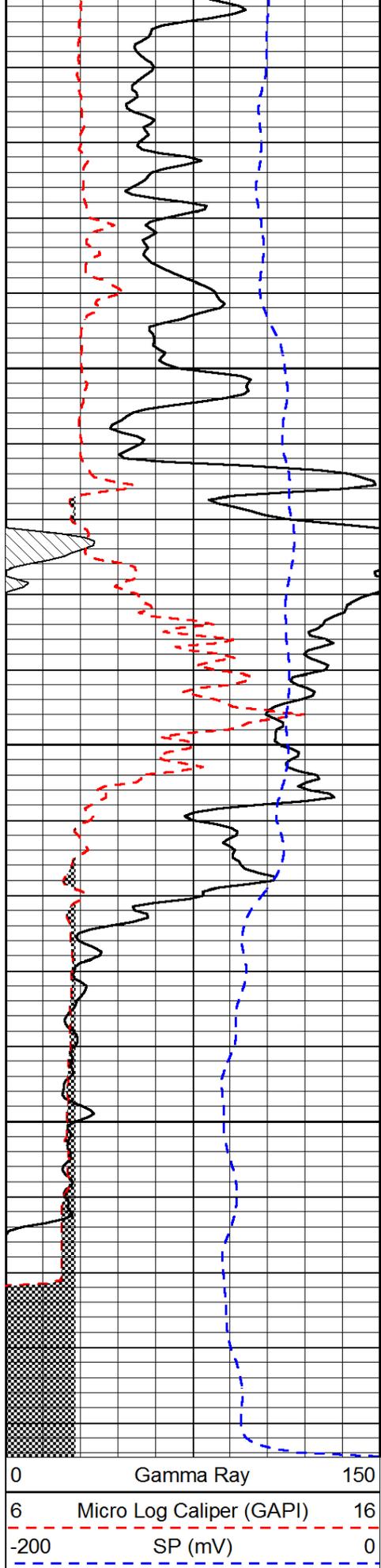
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