



Pioneer Energy Services

# Microresistivity Log

15-009-25,778-00-00

API No.

Company **LD Drilling, Inc.**  
 Well **Lyle No. 1-14**  
 Field **Chase-Silica**  
 County **Barton** State **Kansas**

Location **SE-NW-NW-NW  
4701' FSL & 554' FWL**  
 Sec: **14** Twp: **20S** Rge: **11W**

Other Services  
 CNL/CDL  
 DIL

Permanent Datum **Ground Level** Elevation **1754**  
 Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum  
 Drilling Measured From **Kelly Bushing**

Date	7/1/2013		
Run Number	Two		
Depth Driller	3400		
Depth Logger	3401		
Bottom Logged Interval	3400		
Top Log Interval	2700		
Casing Driller	8.625 @ 384		
Casing Logger	385		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	7.000		
Density / Viscosity	8.7   52		
pH / Fluid Loss	10.0   10.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	.50 @ 75		
Rmf @ Meas. Temp	.38 @ 75		
Rmc @ Meas. Temp	.68 @ 75		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.34 @ 110		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	110		
Equipment Number	15		
Location	Hays		
Recorded By	J. Hennickson		D. Kerr
Witnessed By	Kurt Talbott		

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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

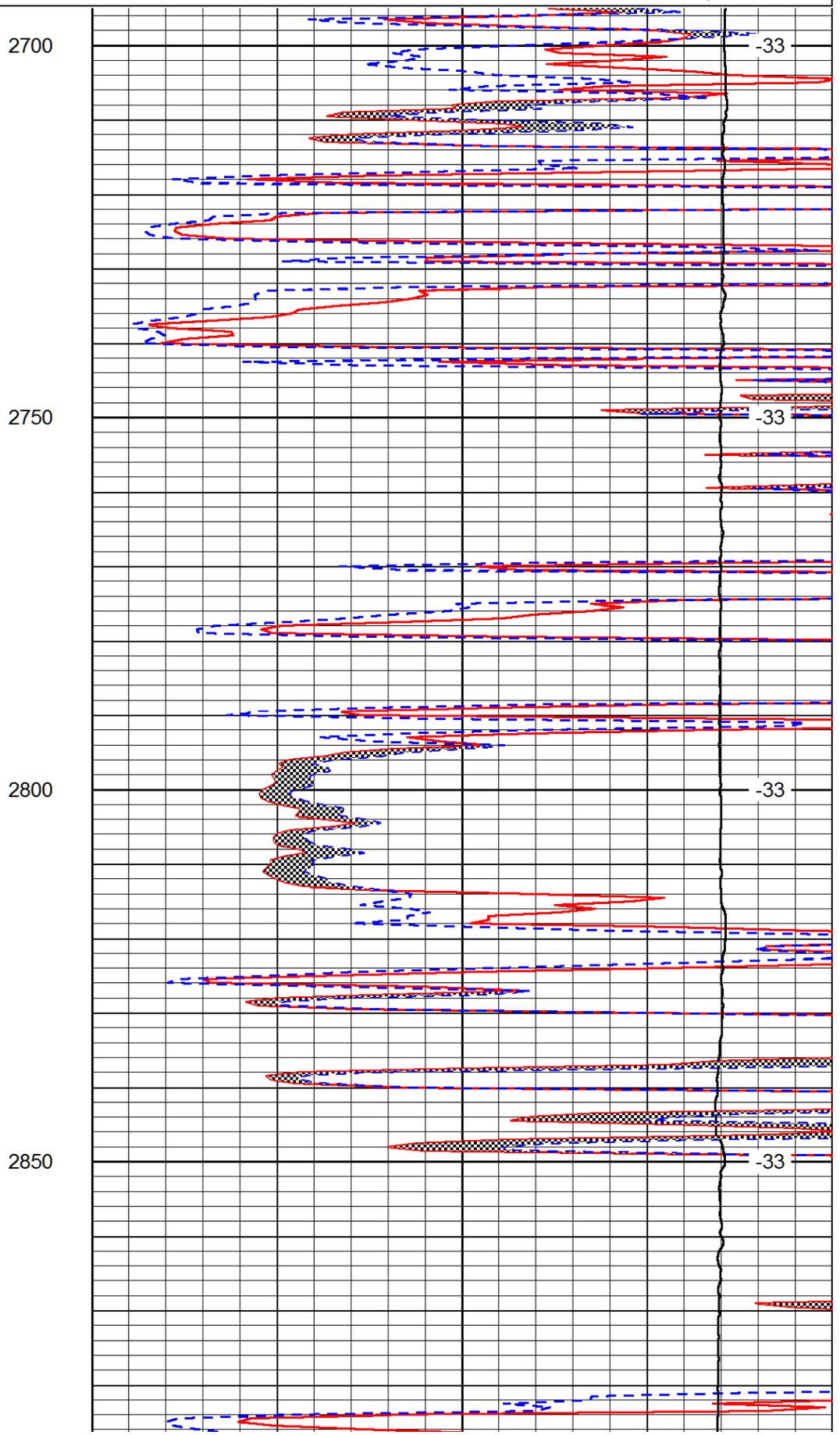
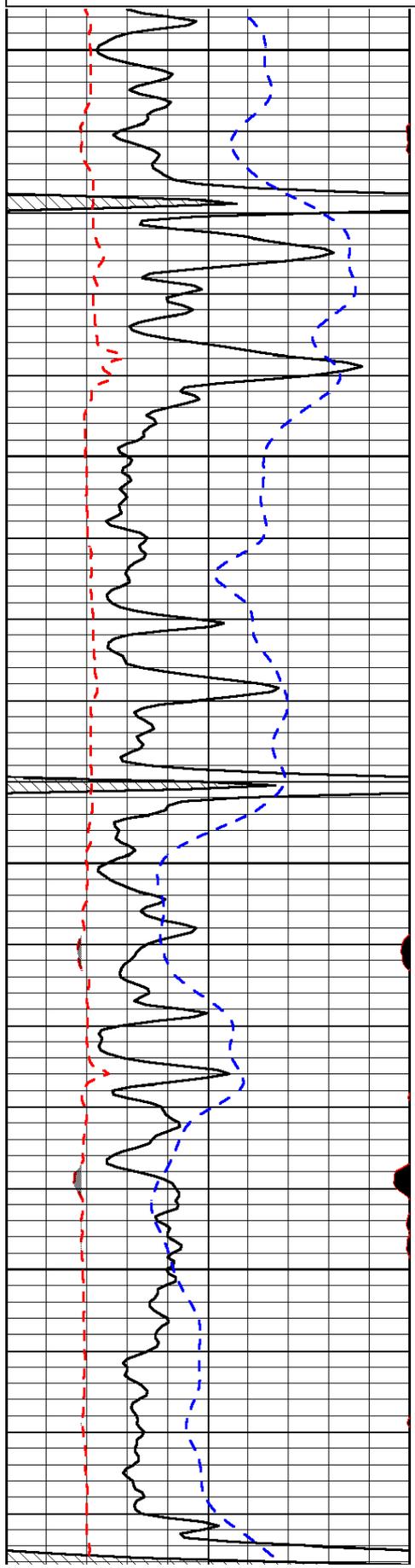
Thank you for using Log-Tech, Inc.  
 (785) 625-3858  
  
 Ellinwood KS  
 South on Stafford Blk Top to 50 Rd, East to 150 Rd  
 1/2 North, W and N into (about 1 mile)

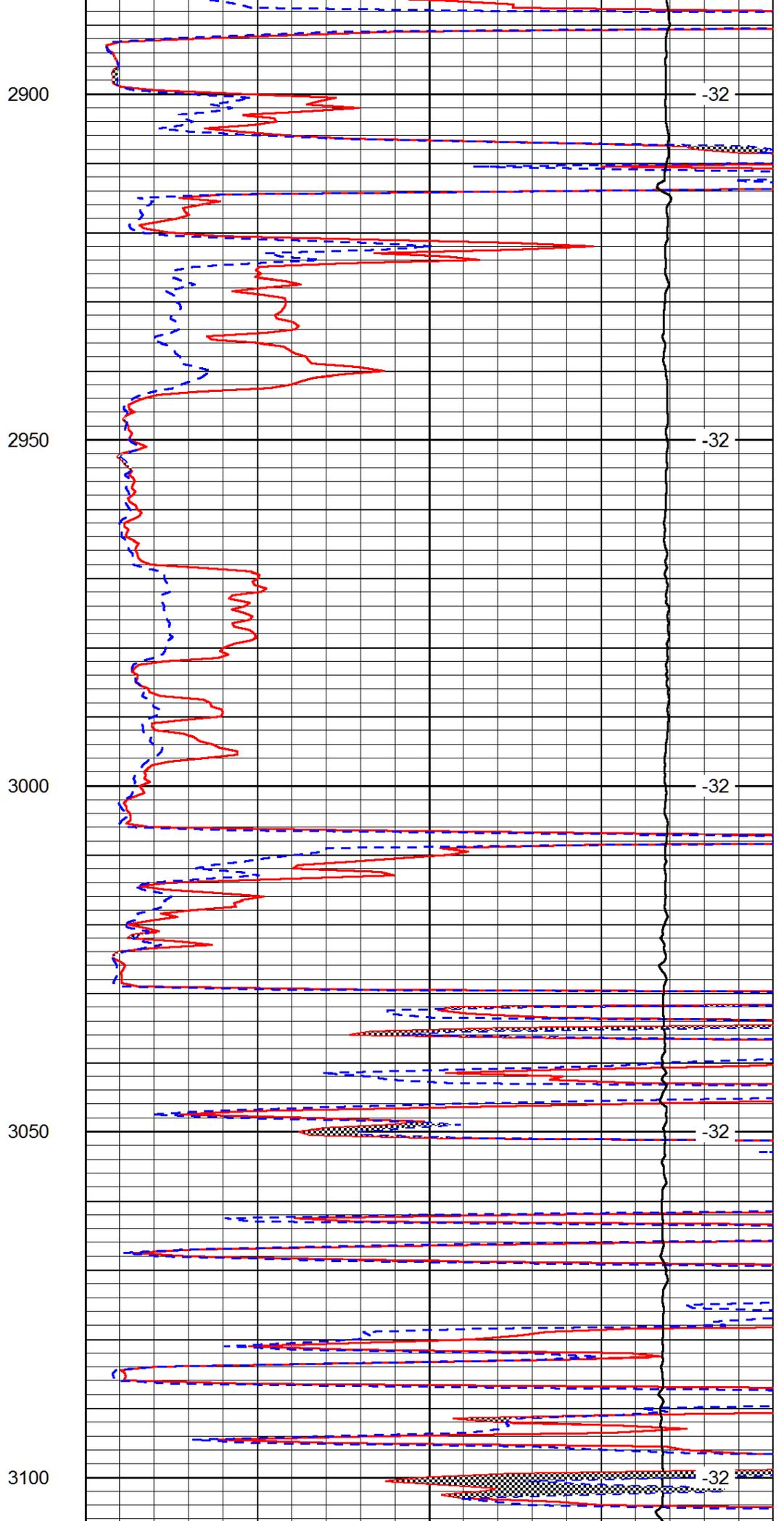
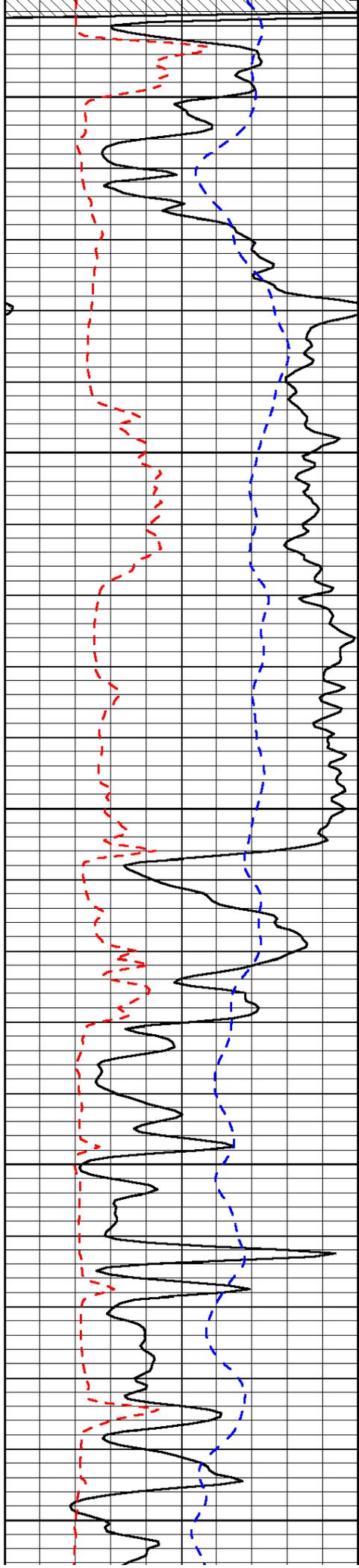
Database File: Id\_drilling\_lyle\_1\_14hd.db  
 Dataset Pathname: DIL/ldstk  
 Presentation Format: micro  
 Dataset Creation: Mon Jul 01 14:27:51 2013  
 Charted by: Depth in Feet scaled 1:240

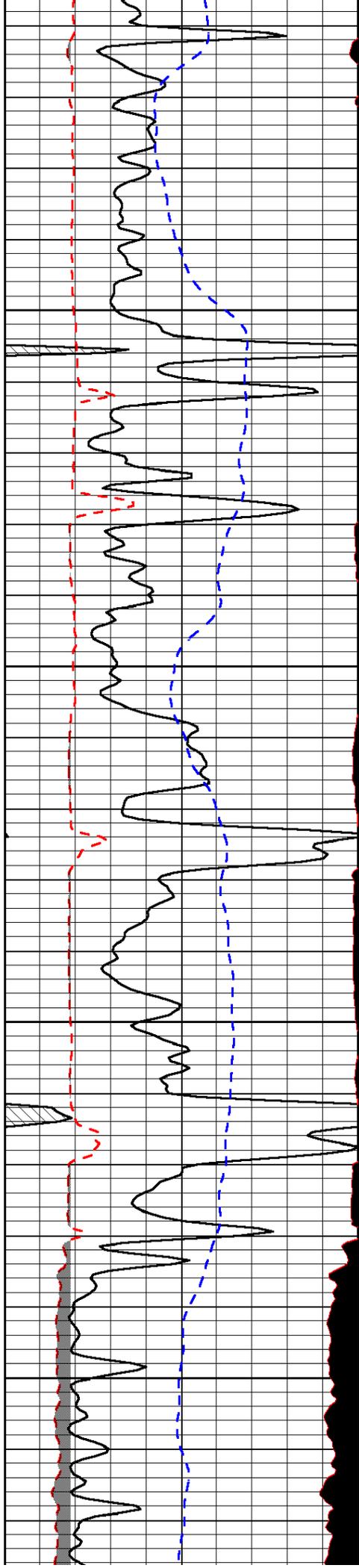
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

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

LSPD  
(ft/min)





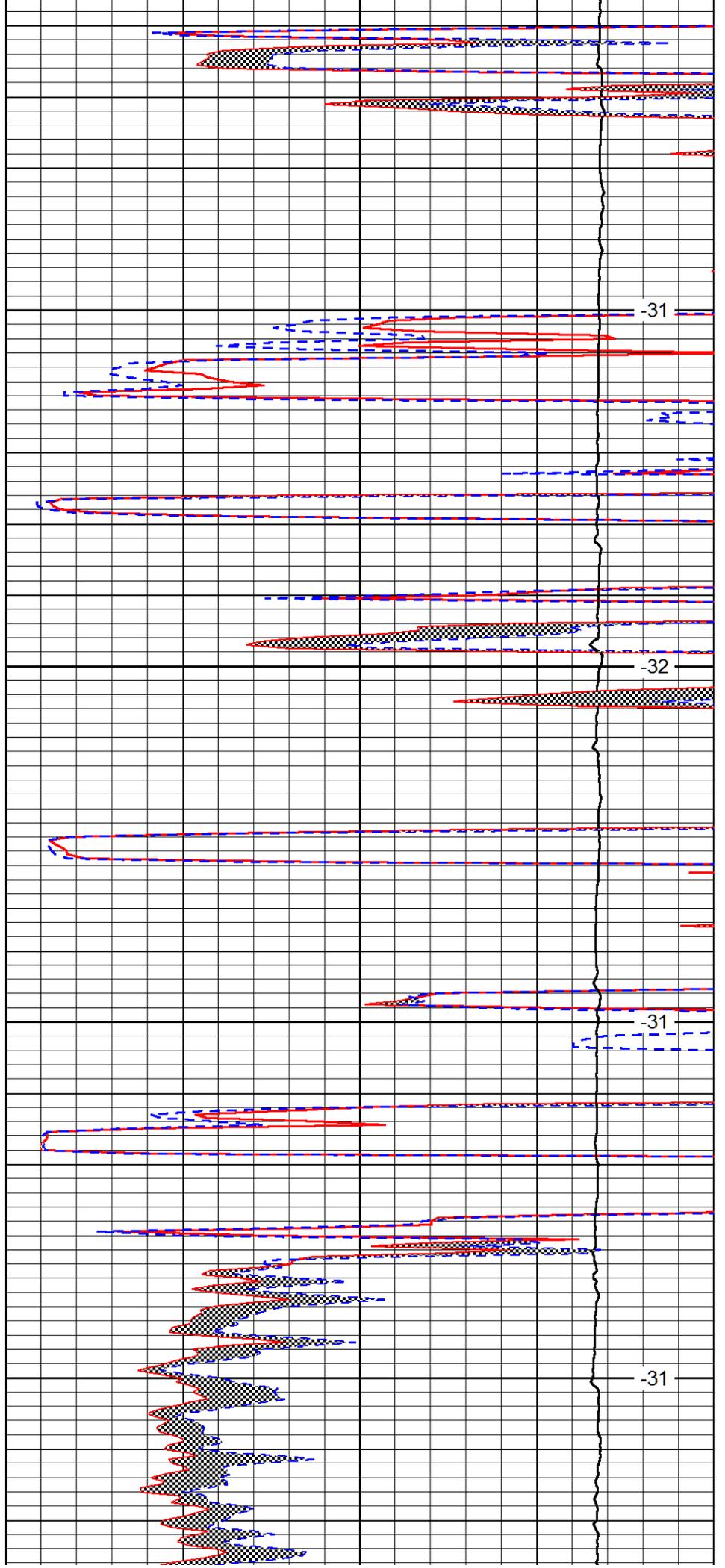


3150

3200

3250

3300

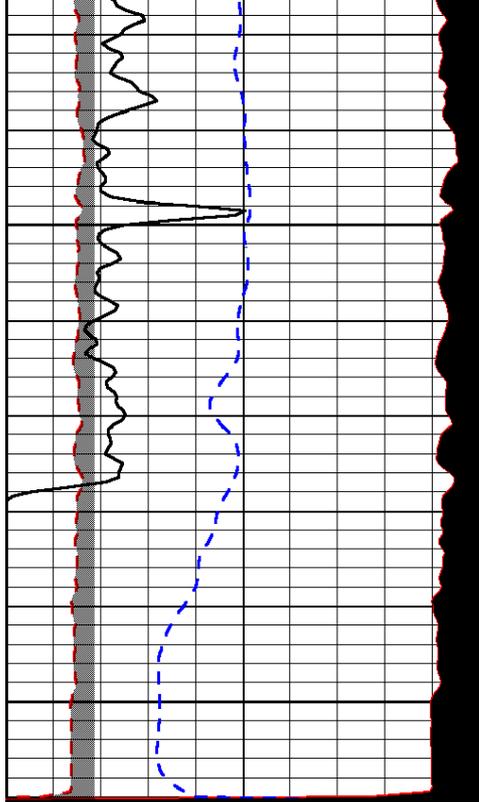


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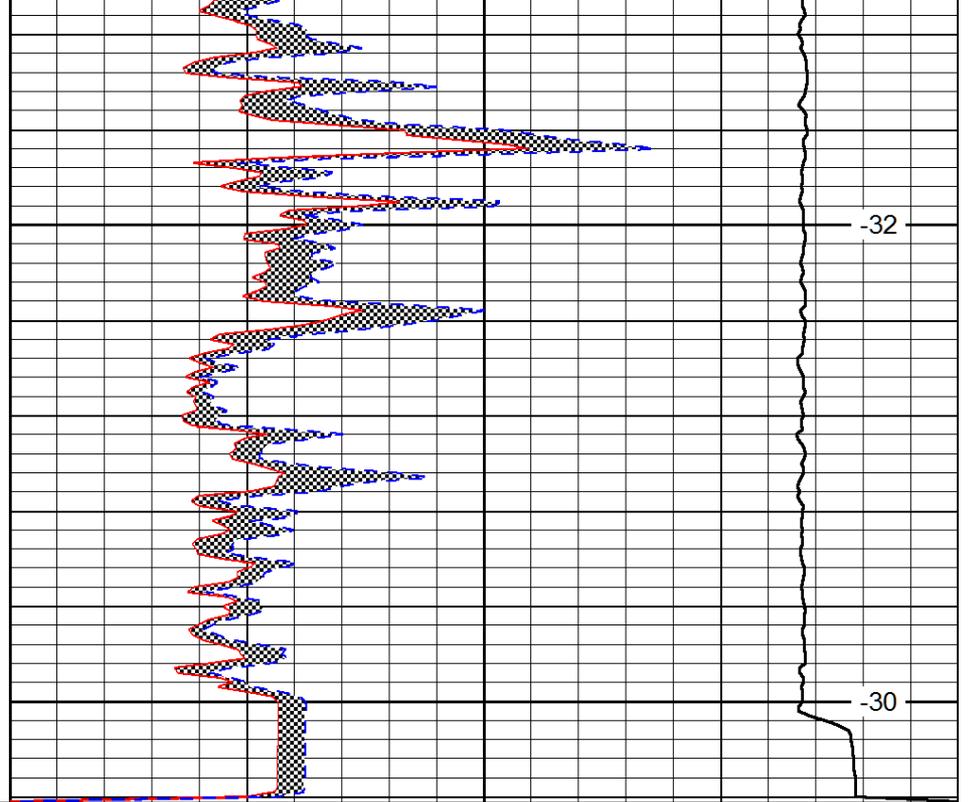
-31



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-32

-30