



Pioneer Energy Services

# Microresistivity Log

API No.	15-065-24002-00-00		
Company	Ron's Oil Operations, Inc.		
Well	Keith #14-2		
Field	Railroad Southeast		
County	Graham	State	Kansas
Location	1553' FNL & 536' FEL		
Sec: 14	Twp: 8S	Rge: 22W	Other Services RAG

Permanent Datum	Ground Level	Elevation 2094	K.B. 2099
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	D.F. 2094
Drilling Measured From	Kelly Bushing		G.L. 2094
Date	1/30/2014		
Run Number	Two		
Depth Driller	3671		
Depth Logger	3671		
Bottom Logged Interval	3670		
Top Log Interval	3000		
Casing Driller	8.625 @ 210		
Casing Logger	216		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2000		
Density / Viscosity	9.3	55	
pH / Fluid Loss	9.5	8.0	
Source of Sample	Flowline		
Rm @ Meas. Temp	1.60 @ 48		
Rmf @ Meas. Temp	1.20 @ 48		
Rmc @ Meas. Temp	2.16 @ 48		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.68 @ 113		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	113		
Equipment Number	10		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Chris Bean		

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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

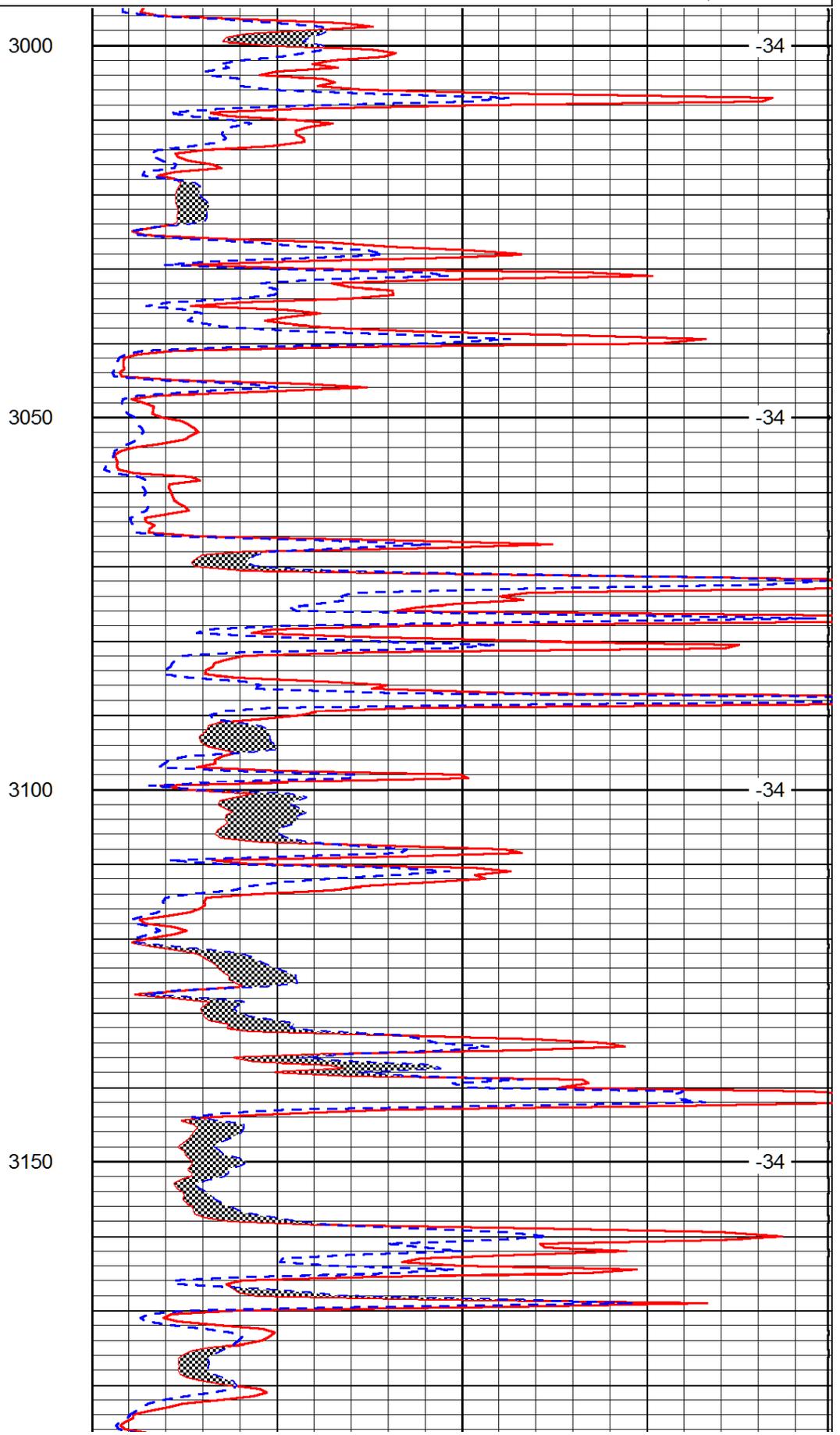
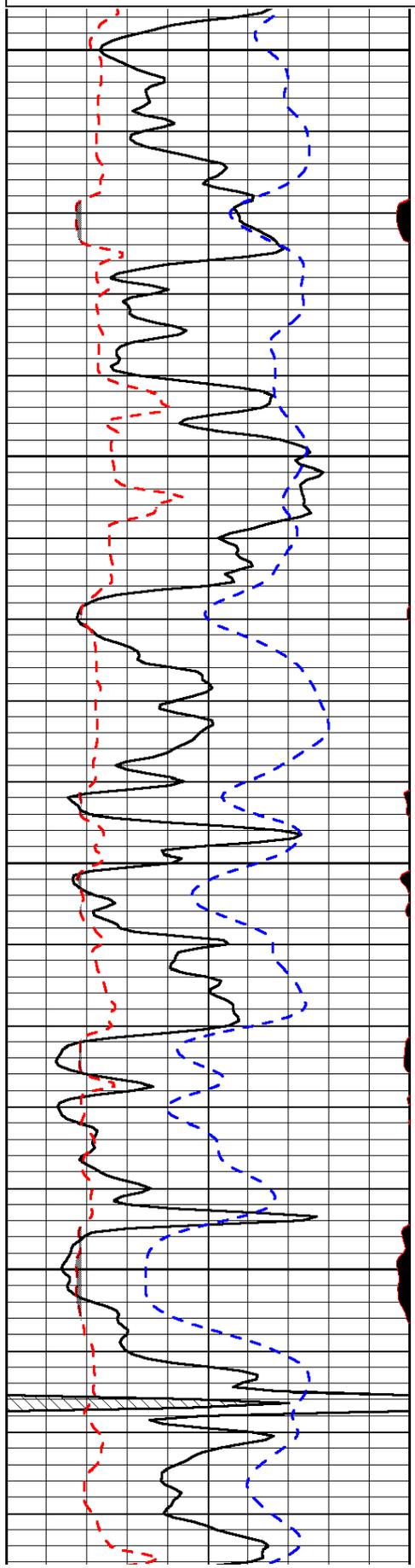
Thank you for using Log-Tech, Inc.  
(785) 625-3858

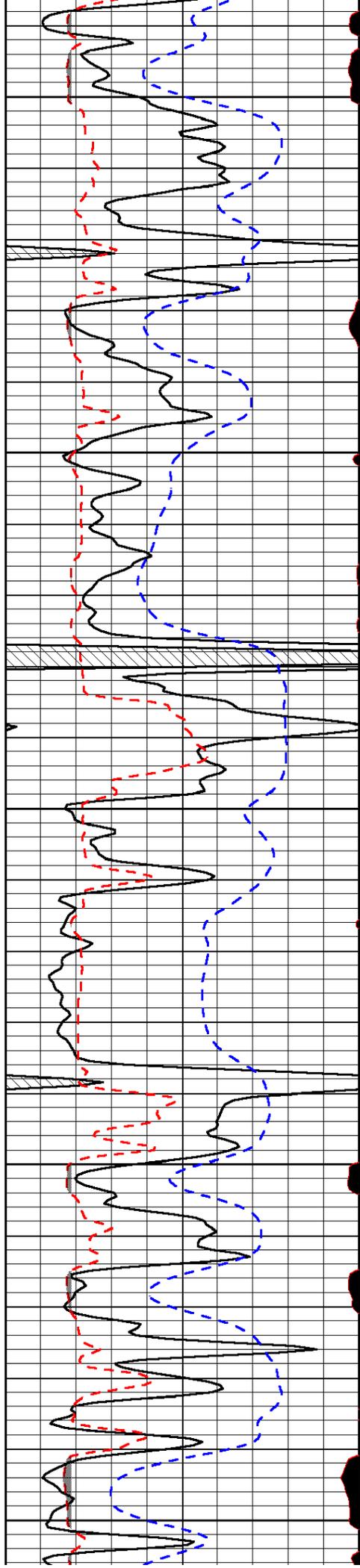
Bogue (South Edge),  
2 1/2 West, North and West into

Database File: rons\_013014hd.db  
 Dataset Pathname: rag/ronrag  
 Presentation Format: micro  
 Dataset Creation: Fri Jan 31 00:24:47 2014  
 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)	





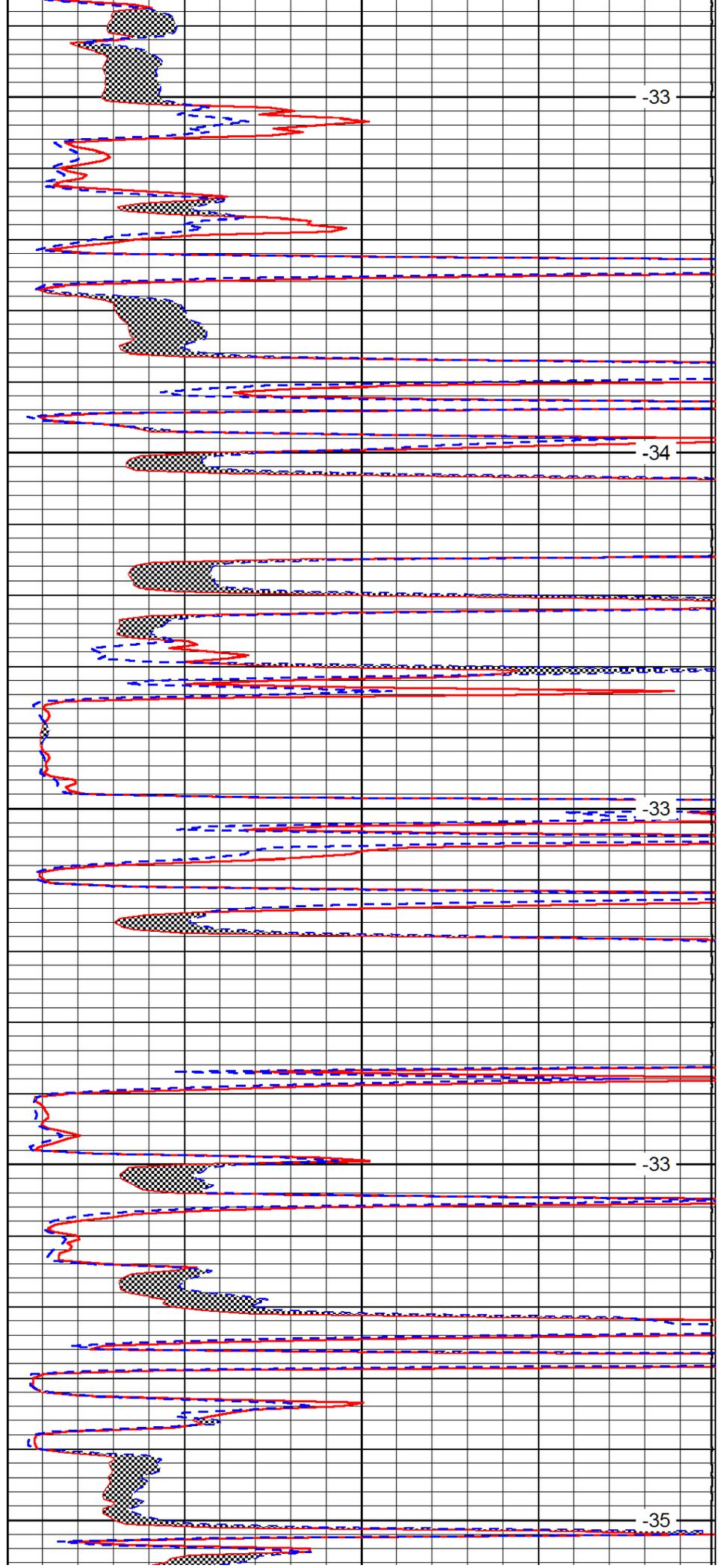
3200

3250

3300

3350

3400



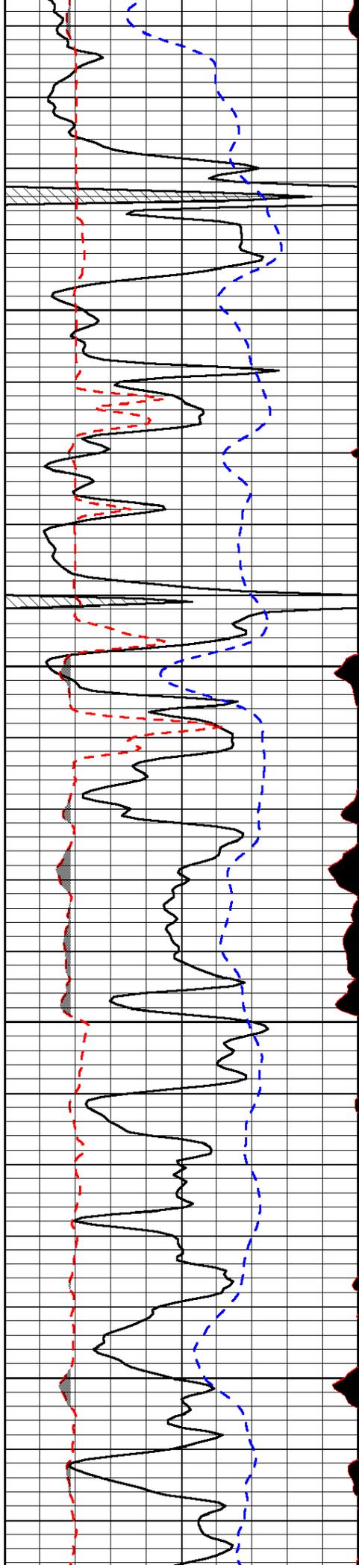
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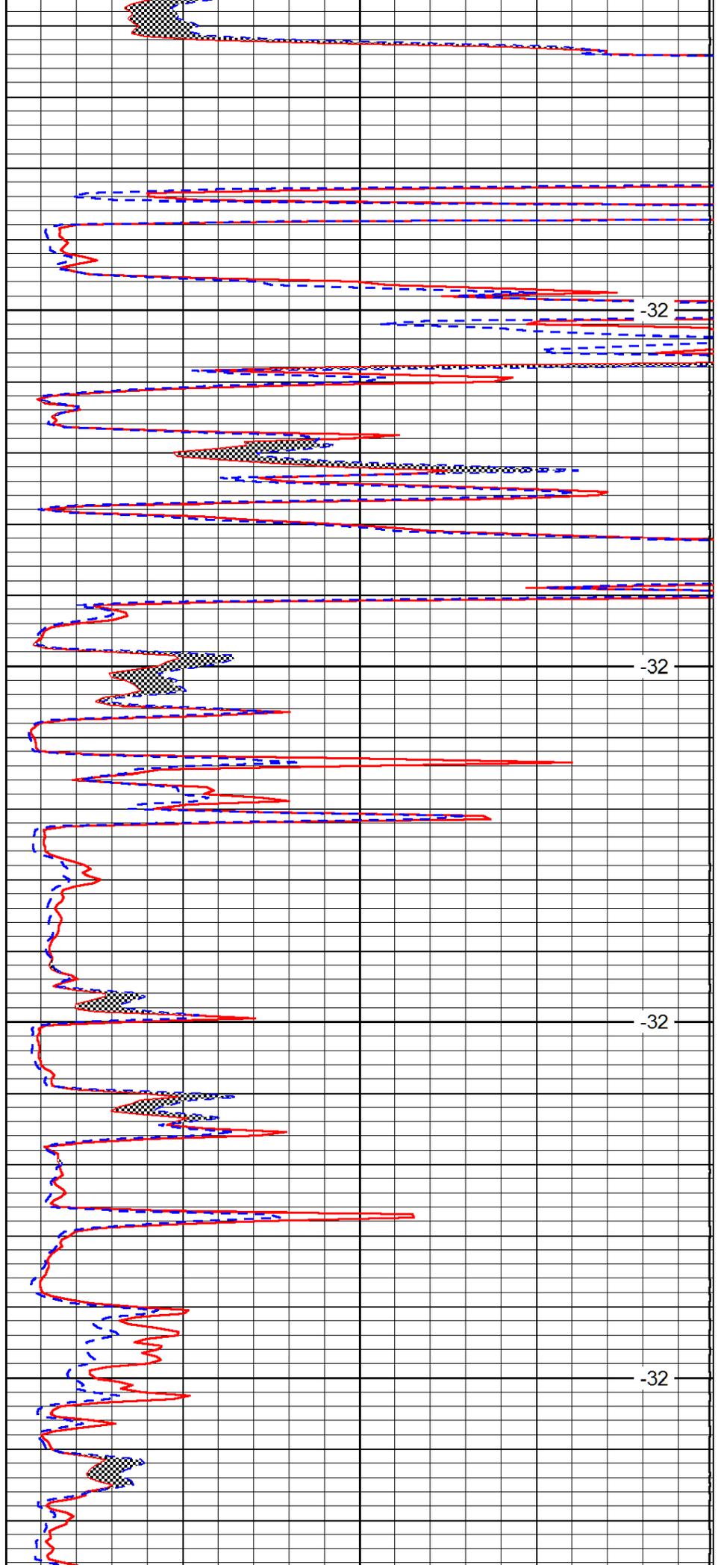


3450

3500

3550

3600

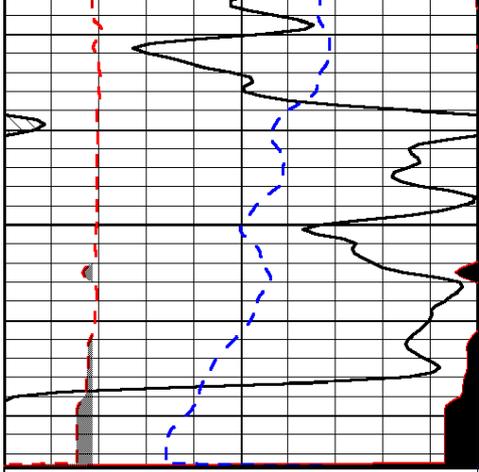


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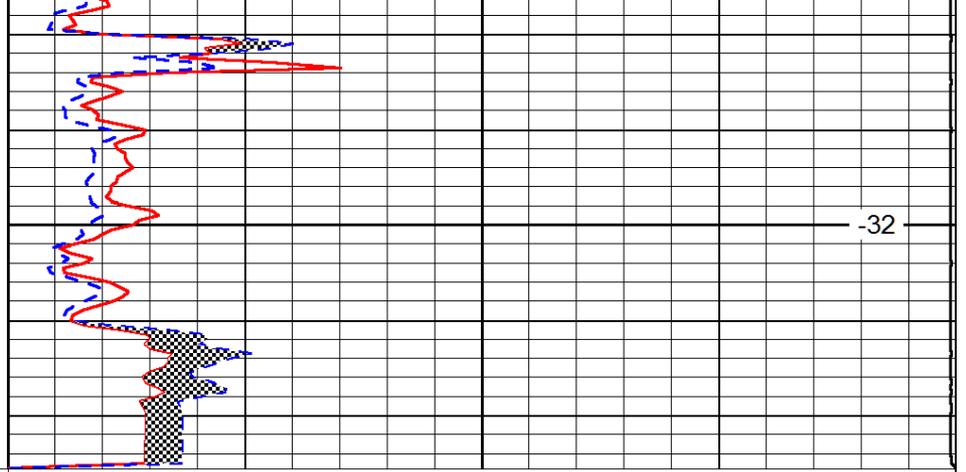
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3650



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