



Pioneer Energy Services

## Dual Compensated Porosity Log

**Company** Prater Oil & Gas Operations, Inc.  
**Well** Maurath #1  
**Field** Triangle Northwest  
**County** Thomas **State** Kansas  
**Location** 660' FEL & 2310' FSL  
**Other Services** DIL

**Sec:** 15 **Twp:** 10S **Rge:** 31W

**Permanent Datum** Ground Level **Elevation** 2985  
**Log Measured From** Kelly Bushing **8 Ft. Above Perm. Datum**  
**Drilling Measured From** Kelly Bushing

**Elevation**  
**K.B.** 2993  
**D.F.**  
**G.L.** 2985

Date	4/21/2014	
Run Number	One	
Type Log	CNL / CDL	
Depth Driller	4660	
Depth Logger	4660	
Bottom Logged Interval	4639	
Top Logged Interval	3700	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	2500	
Density	9.4	
Level	Full	
Max. Rec. Temp. F	125	
Operating Rig Time	3 Hours	
Equipment -- Location	91 Hays	
Recorded By	D. Schmidt	
Witnessed By	Scott Alberg	

Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	261	8.625	23#	00	261
Two	7.875	261	TD				

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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

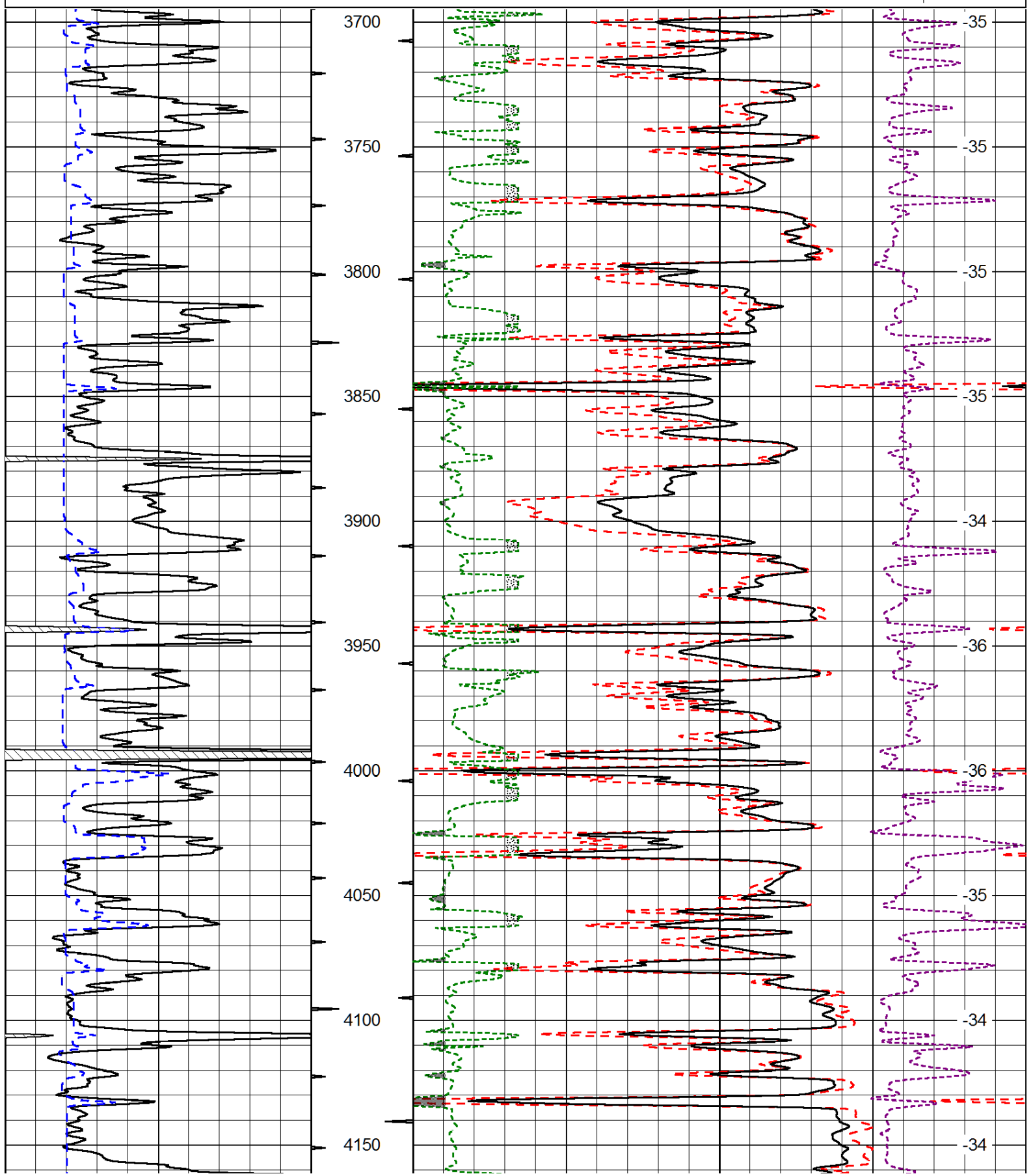
Thank you for using Log-Tech, Inc.  
 (785) 625-3858  
  
 I-70 & Campus Exit,  
 4 1/2 North, 3/4 West, 1/2 North,  
 West into

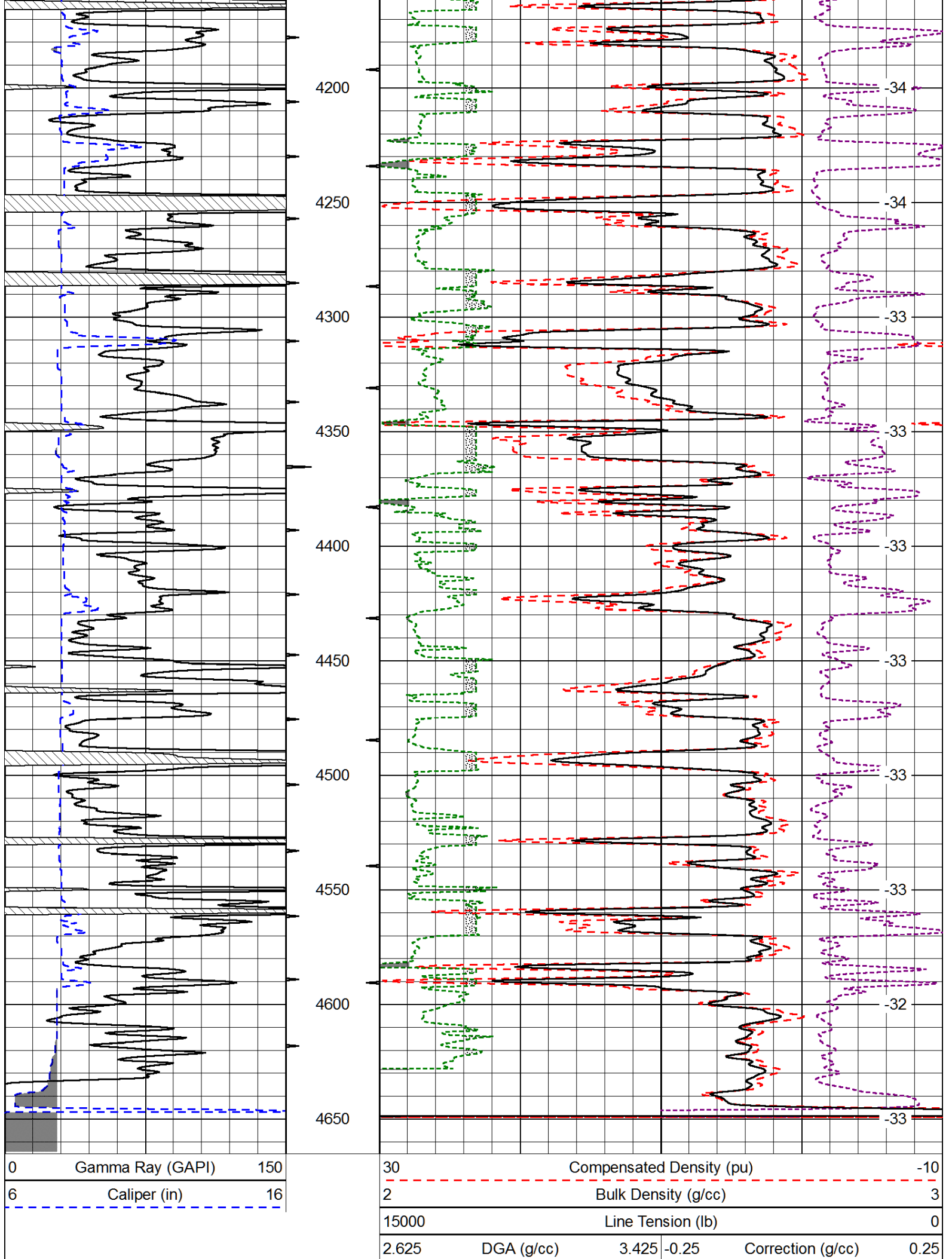
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 Dataset Pathname: dil/prstack  
 Presentation Format: cdl  
 Dataset Creation: Mon Apr 21 15:49:30 2014  
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	Compensated Density (pu)			-10	
2	Bulk Density (g/cc)			3	
15000	Line Tension (lb)			0	
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25

LSPD  
(ft/min)





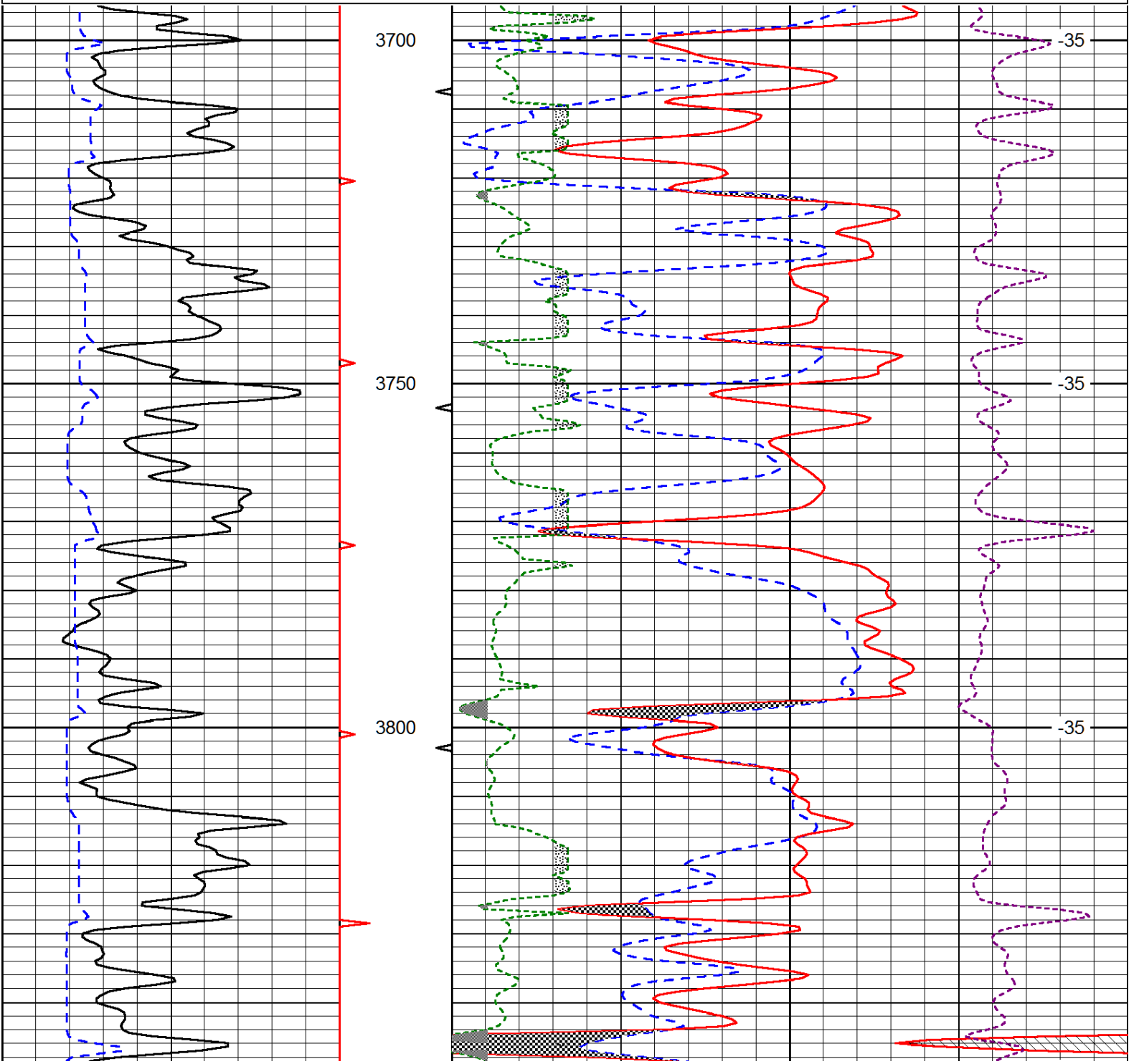
LSPD  
(ft/min)

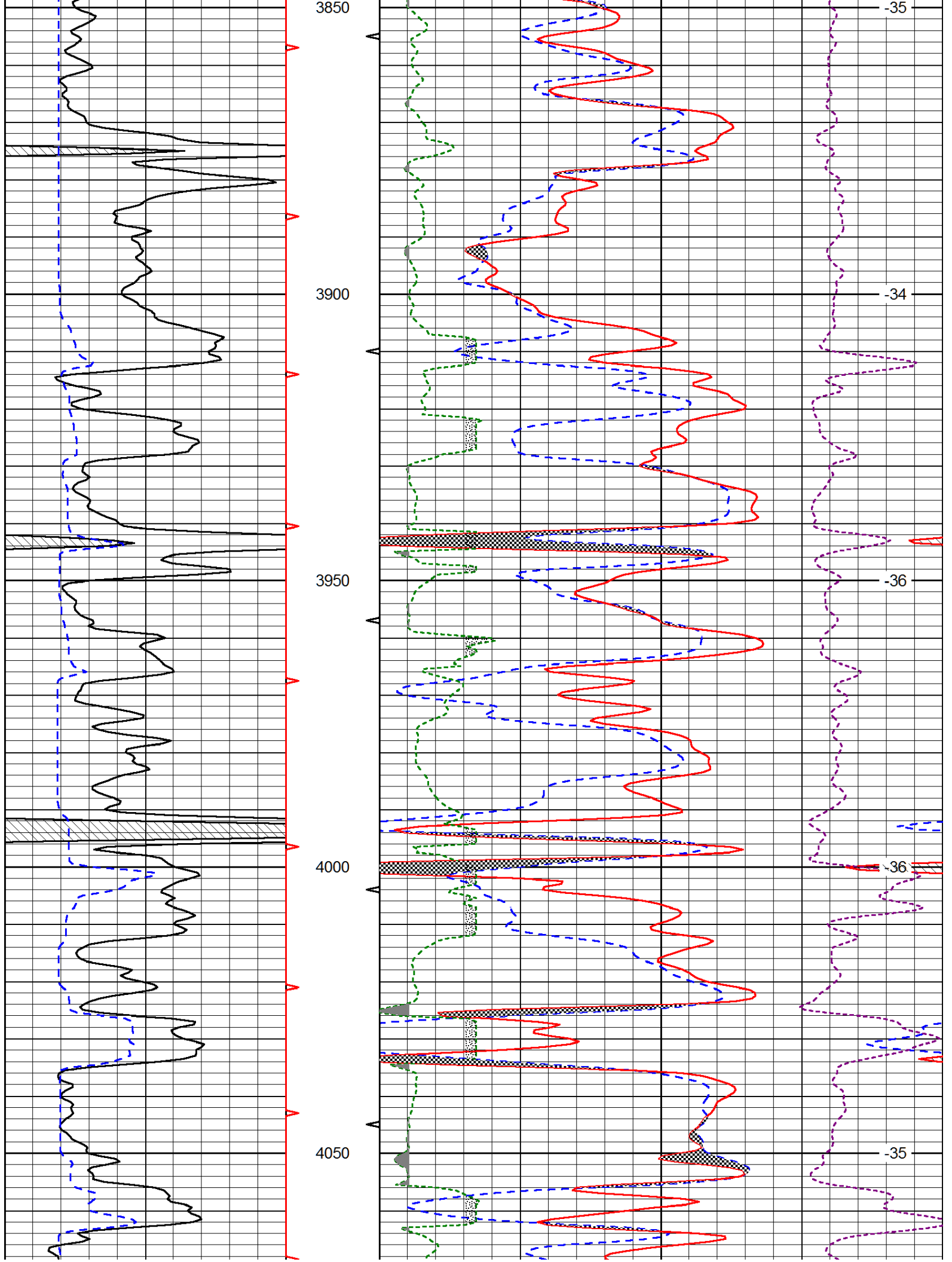
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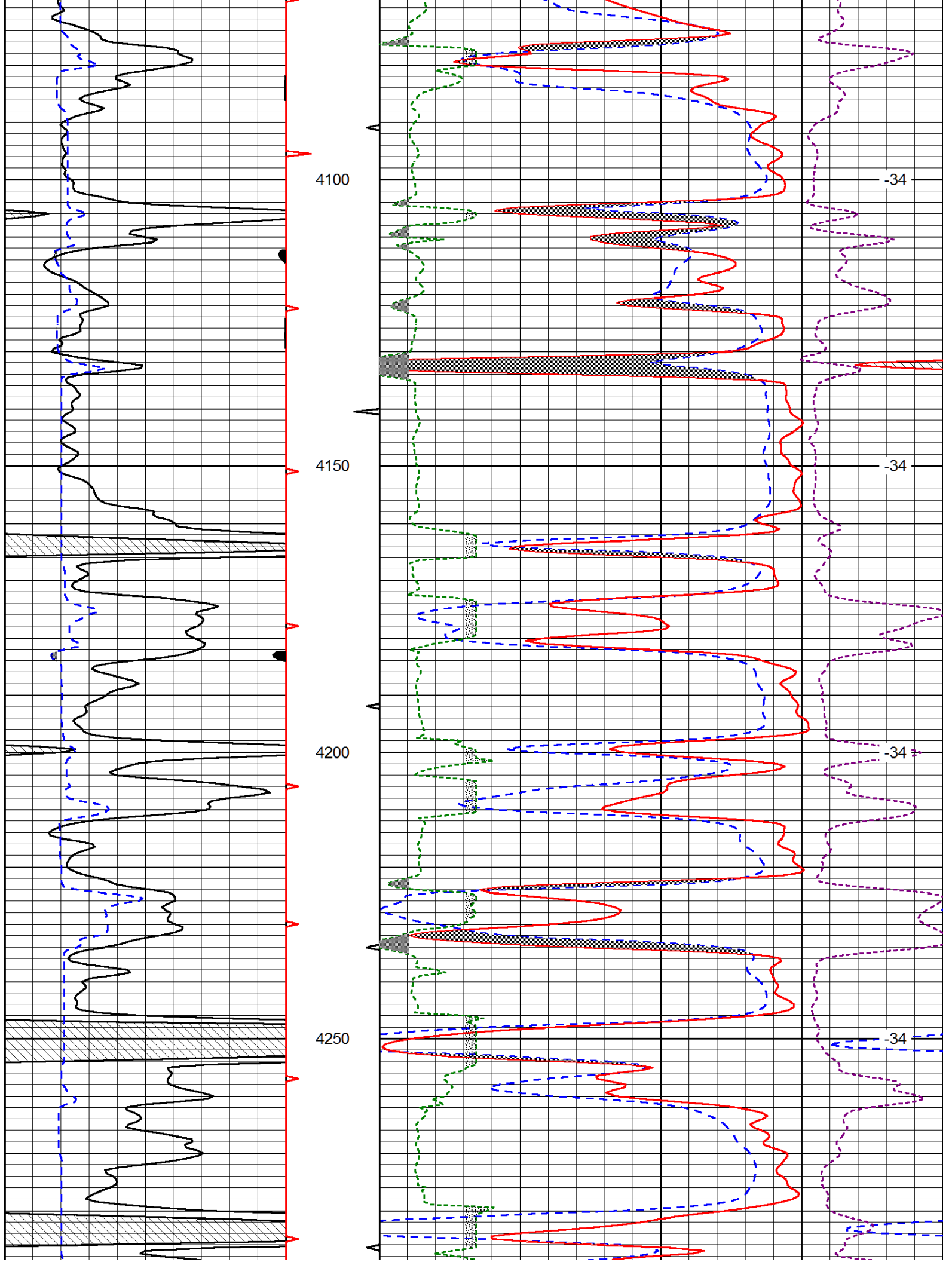
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6	Caliper (in)	16

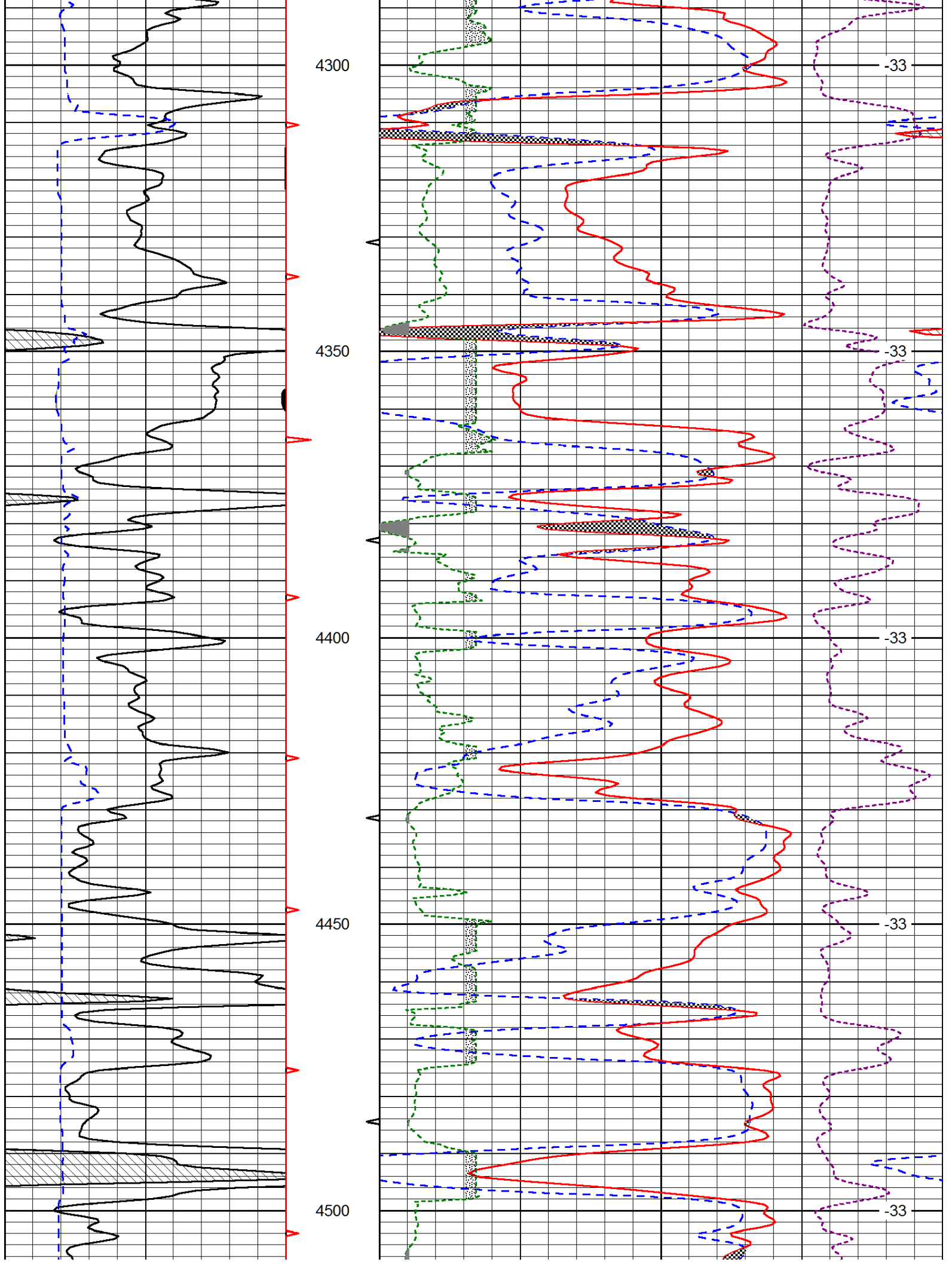
30	CNPOR (pu)			-10	
30	Compensated Density (2.71 ma) (pu)			-10	
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
10000	Line Tension (lb)			0	

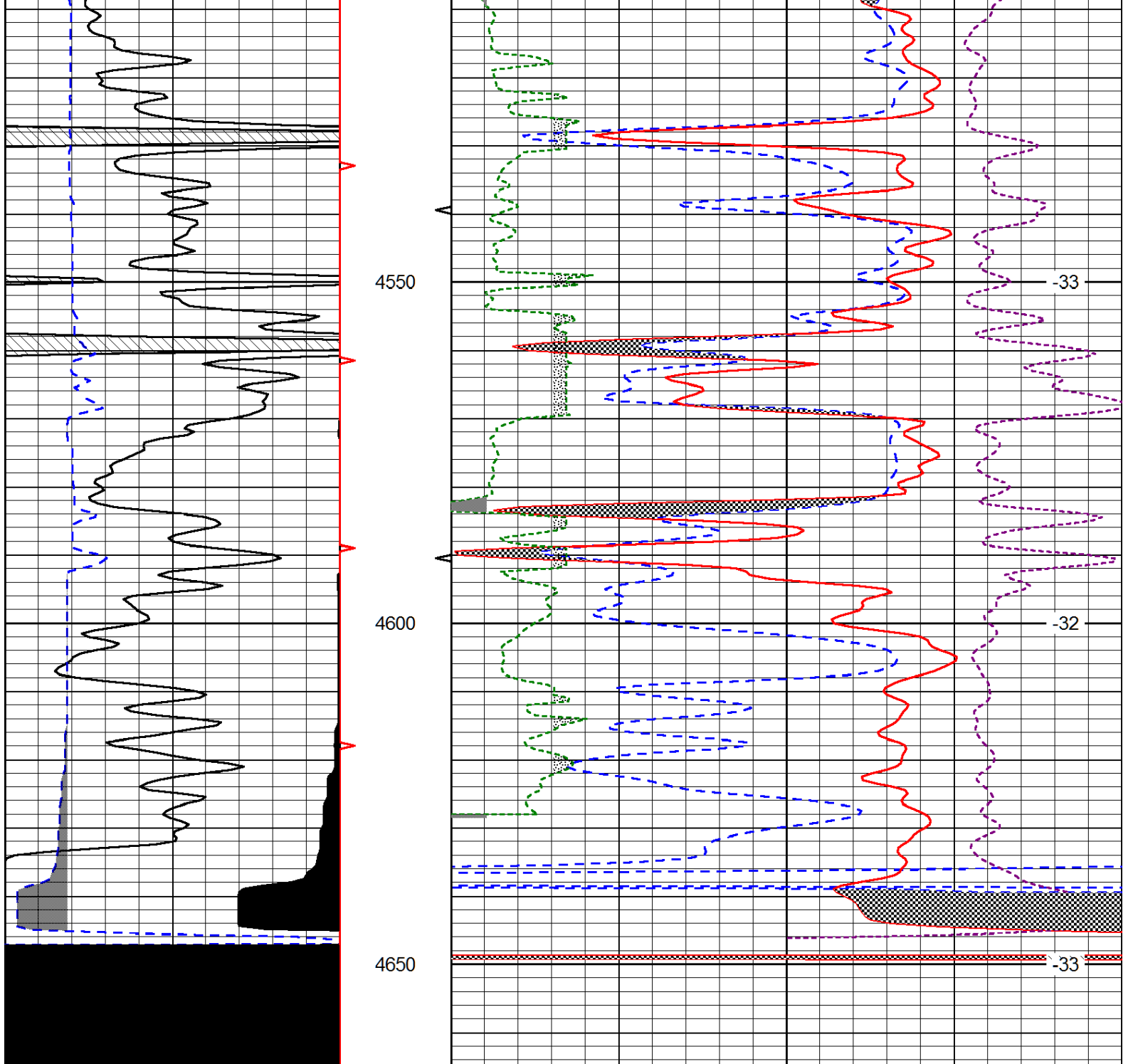
LSPD  
(ft/min)











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10000	Line Tension (lb)			0	

LSPD  
(ft/min)