



Pioneer Energy Services

Dual Compensated Porosity Log

API No.	15-135-25,663-00-00		
Company	American Warrior, Inc.		
Well	LJ Unit No. 1		
Field	Walnut Hill		
County	Ness		
Location	600' FNL & 142' FWL		
	Sec: 21	Twp: 18S	Rge: 22W
Other Services	DIL		
Permanent Datum	Ground Level	Elevation 2174	K.B. 2182
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum	D.F. 2174
Drilling Measured From	Kelly Bushing		G.L. 2174

Date	11/24/13		
Run Number	One		
Type Log	CNL / CDL		
Depth Driller	4420		
Depth Logger	4427		
Bottom Logged Interval	4406		
Top Logged Interval	3500		
Type Fluid In Hole	Chemical		
Salinity, PPM CL	8,000		
Density	9.2		
Level	Full		
Max. Rec. Temp. F	120		
Operating Rig Time	3 Hours		
Equipment -- Location	108 Hays		
Recorded By	J. Henrickson		
Witnessed By	Scott Corsair		

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	222	8.625	23#	00	222
Two	7.875	222	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

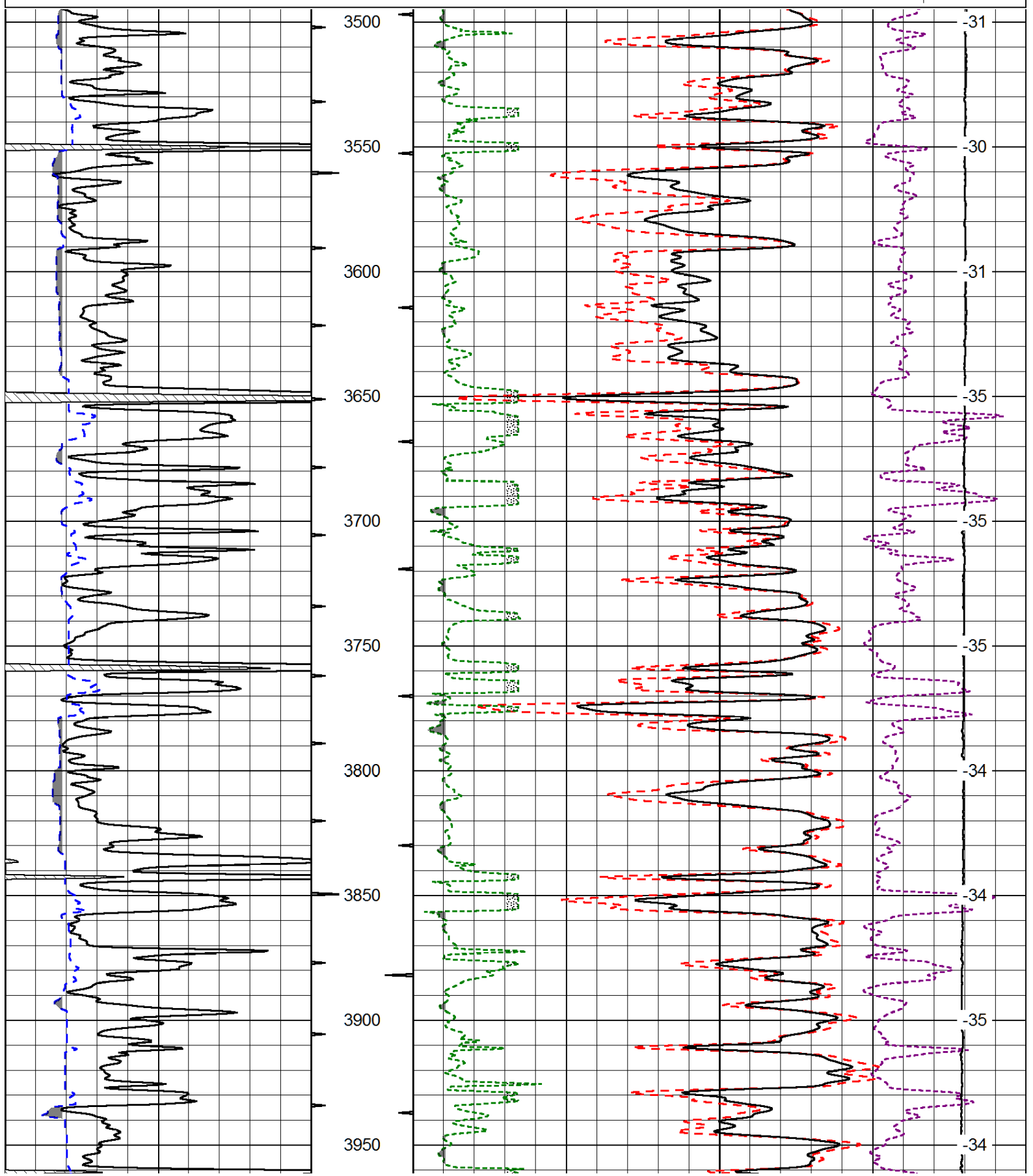
Bazine Kansas
3 West, 2 North, West Into

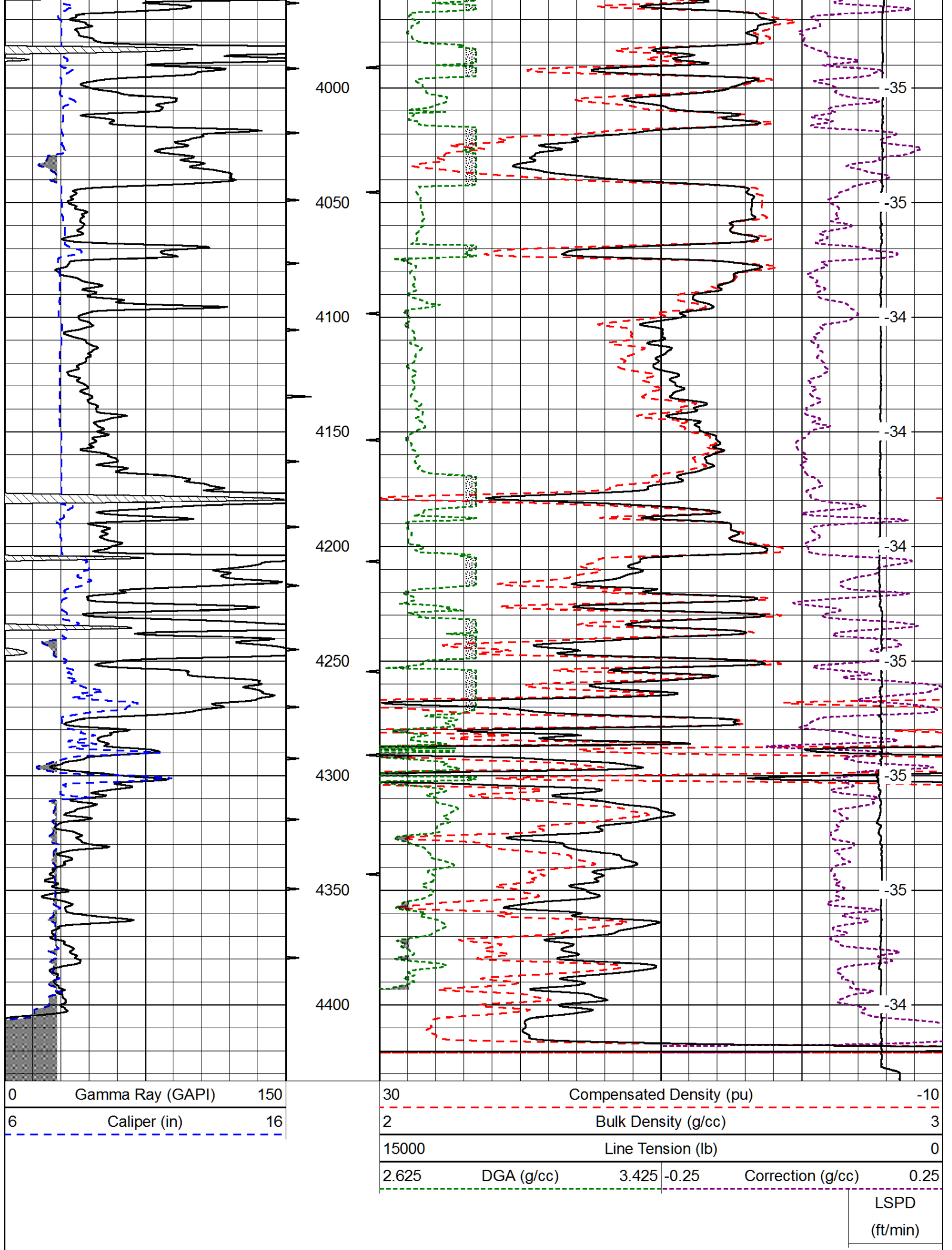
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 Dataset Pathname: DIL/awstk
 Presentation Format: cdl
 Dataset Creation: Sun Nov 24 16:29:40 2013
 Charted by: Depth in Feet scaled 1:600

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)



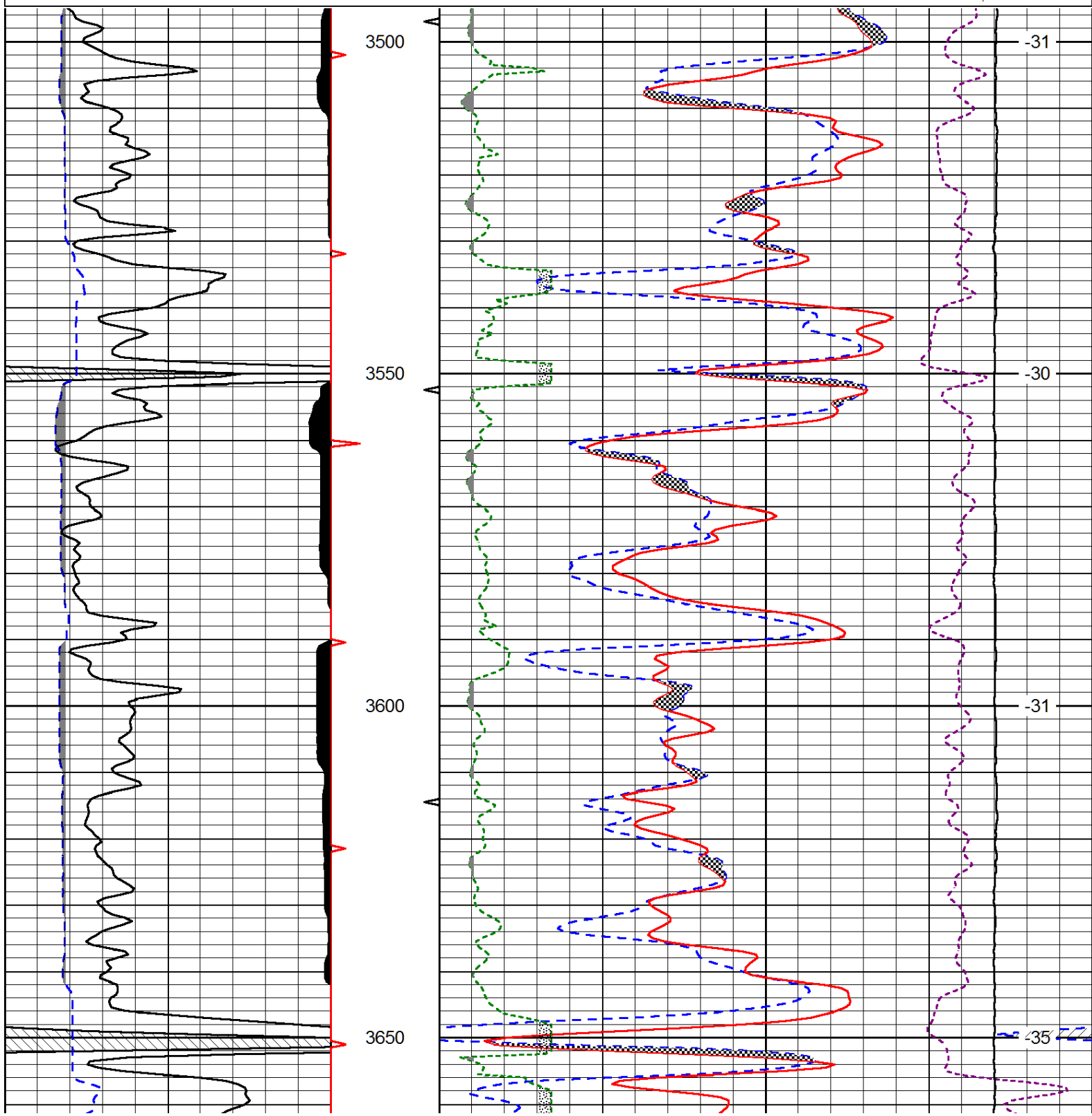


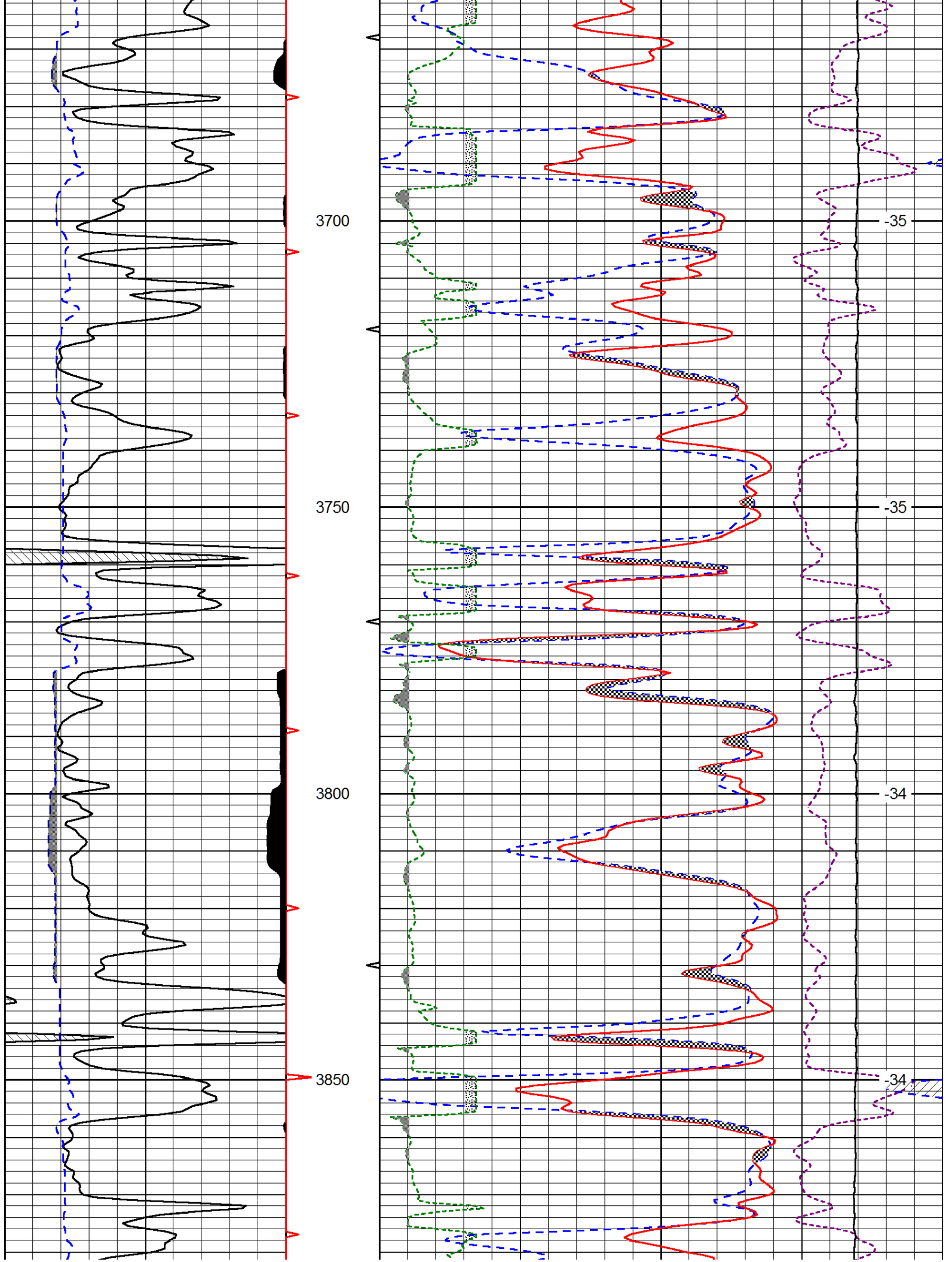
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 Presentation Format: cndlspec
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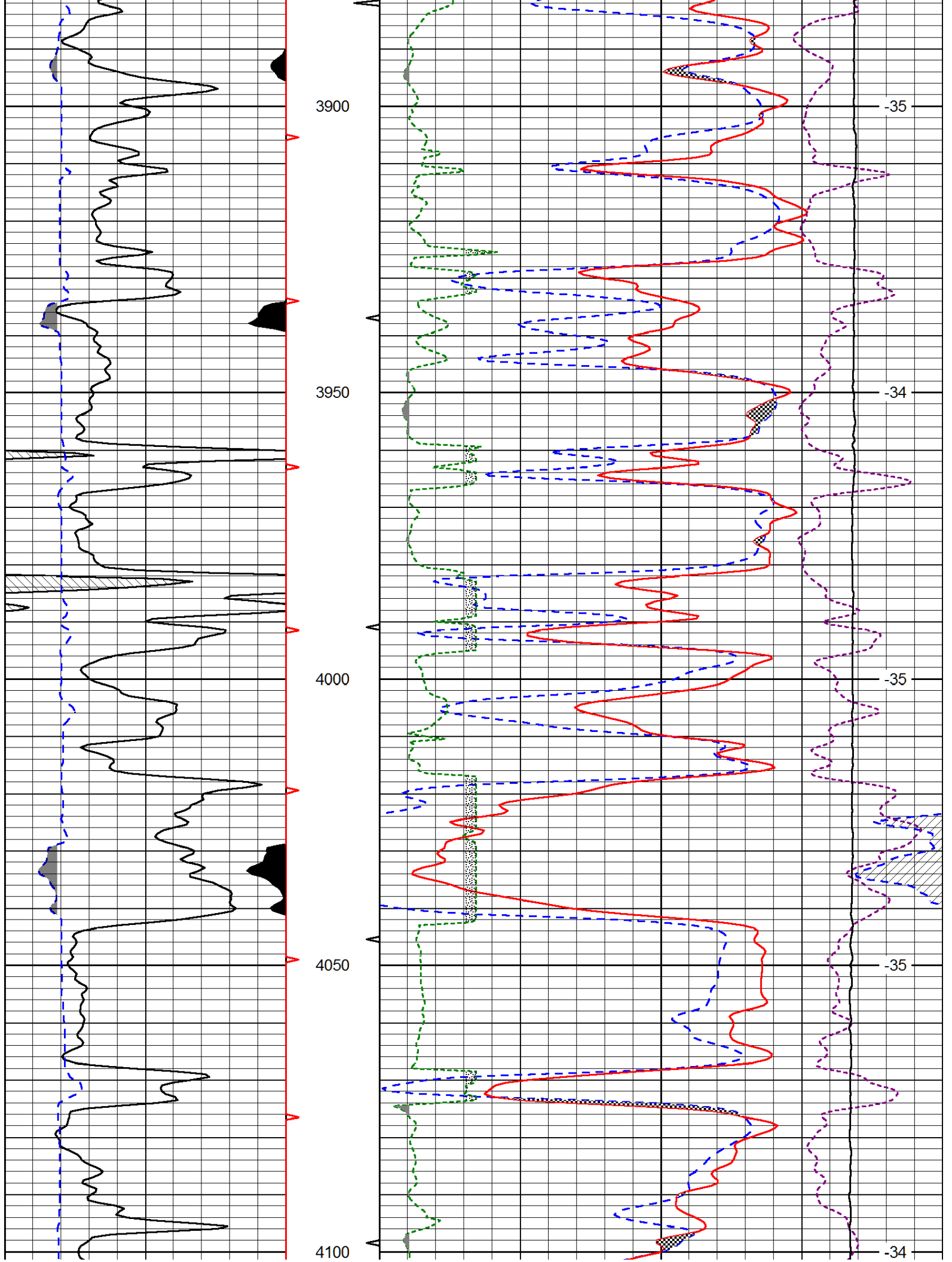
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6	Caliper (in)	16

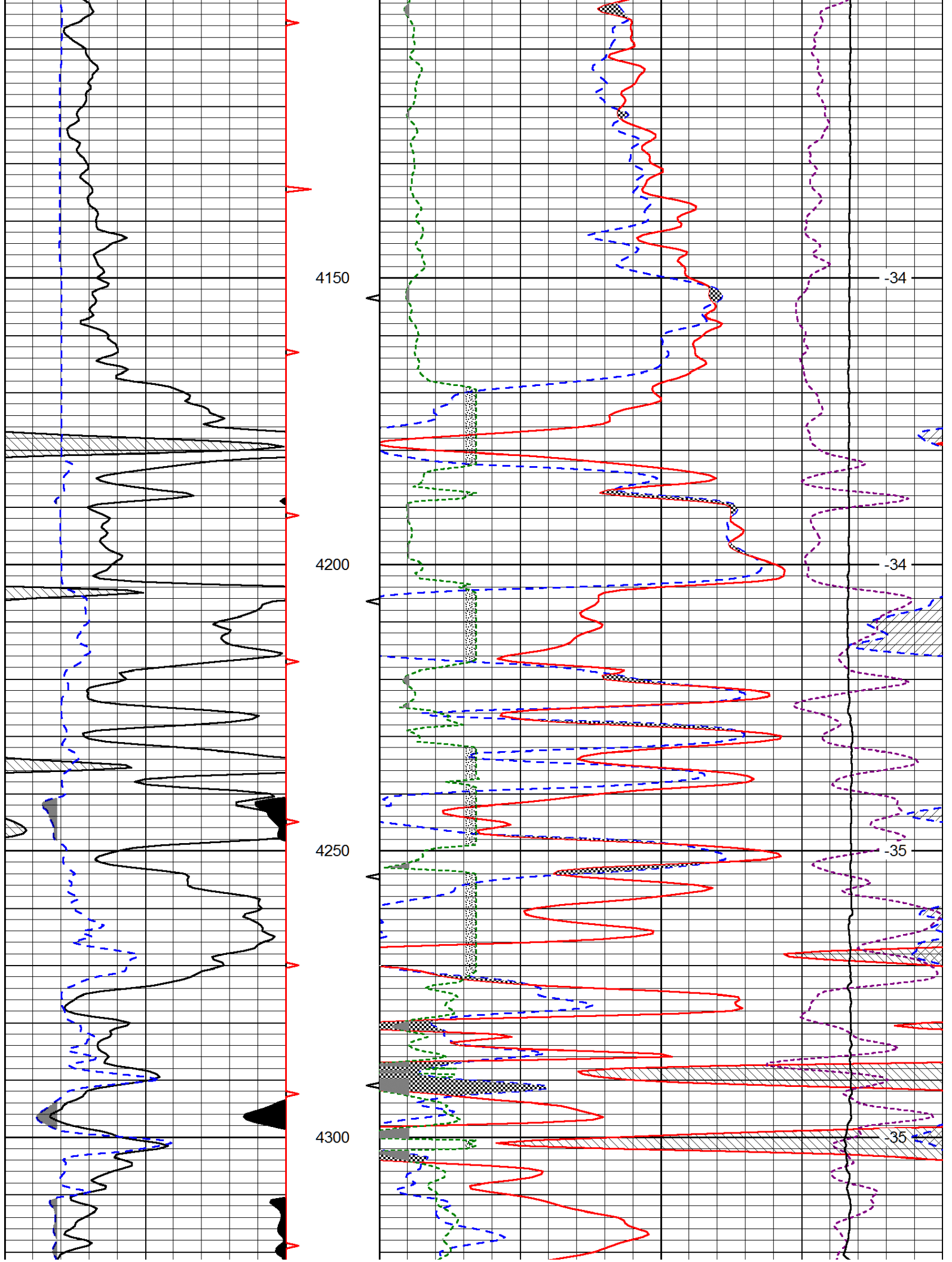
30	CNLS (pu)	-10			
30	Compensated Density (2.71 ma) (pu)	-10			
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
10000	Line Tension (lb)	0			

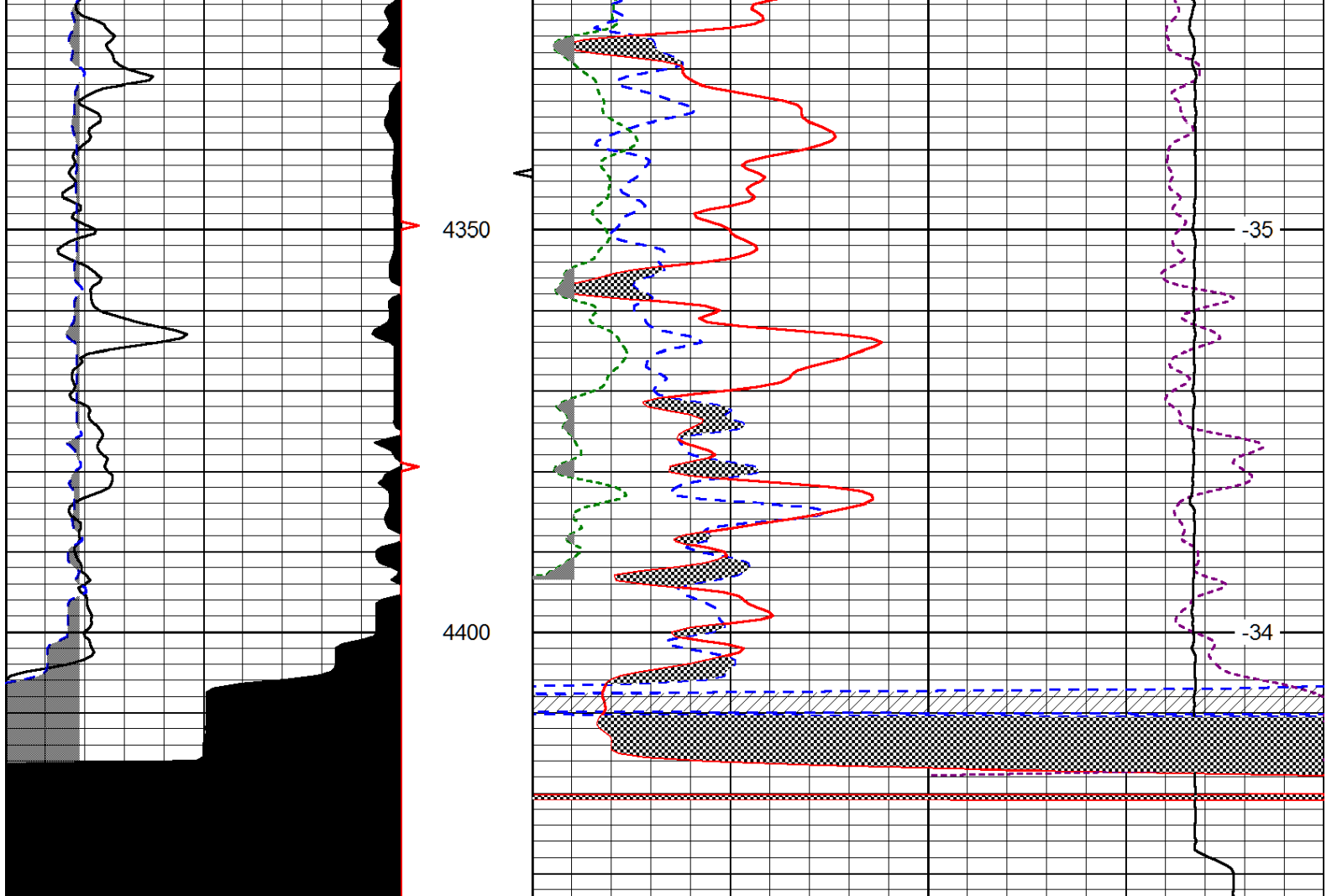
LSPD
(ft/min)











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6	Caliper (in)	16

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10000	Line Tension (lb)		0

LSPD (ft/min)
