



Pioneer Energy Services

## Dual Compensated Porosity Log

API No.	15-051-26,487-00-00		
Company	TDL, Inc.		
Well	Lilly No. 1		
Field	Unnamed		
County	Elilis		
State	Kansas		
Location	NW SE SE NE 2270' FNL & 490' FEL		
Other Services	DILMEL		
Sec: 1	Twp: 15 S	Rge: 20 W	Elevation K.B. 2055 D.F. G.L. 2045

Permanent Datum	Ground Level	Elevation 2045
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	

Date	4/11/2013
Run Number	One
Type Log	CNL / CDL
Depth Driller	3749
Depth Logger	3747
Bottom Logged Interval	3726
Top Logged Interval	2900
Type Fluid In Hole	Chemical
Salinity, PPM CL	5500
Density	9.3
Level	Full
Max. Rec. Temp. F	113
Operating Rig Time	4 Hours
Equipment -- Location	108 Hays
Recorded By	D. Martin
Witnessed By	Tom Denning

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	213	8.625	23#	00	213
Two	7.875	213	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

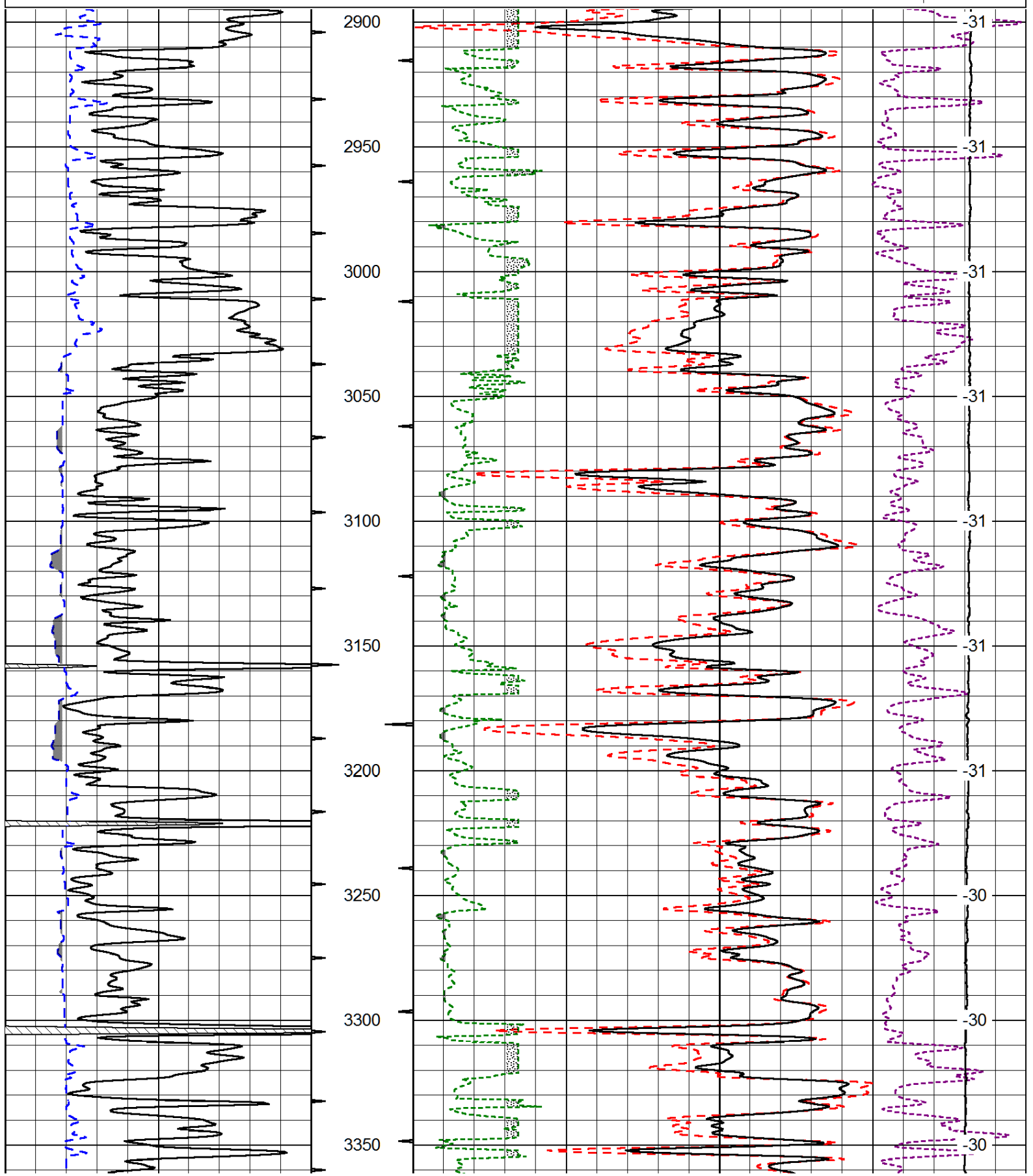
Antonino, KS  
5 W, 1/2 S, W Into

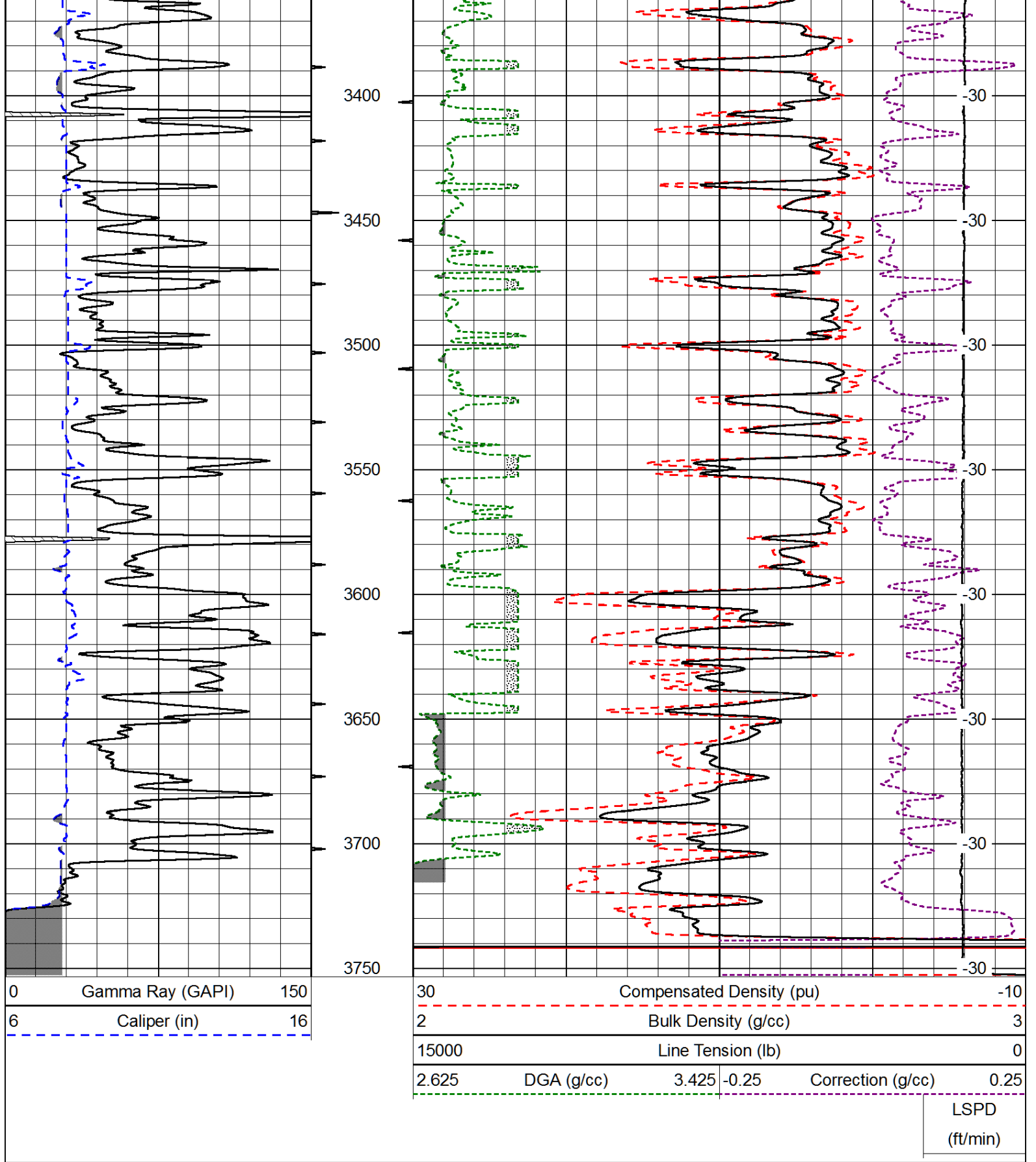
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 Dataset Pathname: dil/tdistk  
 Presentation Format: cdl  
 Dataset Creation: Thu Apr 11 18:03:22 2013  
 Charted by: Depth in Feet scaled 1:600

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

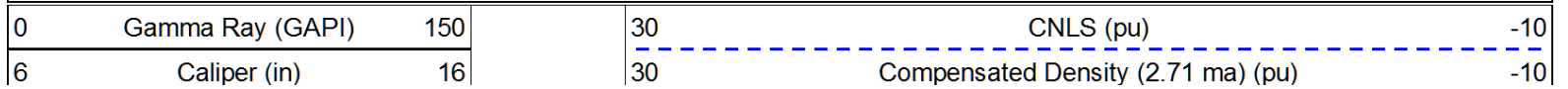
30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
		Correction (g/cc)	0.25

LSPD  
(ft/min)



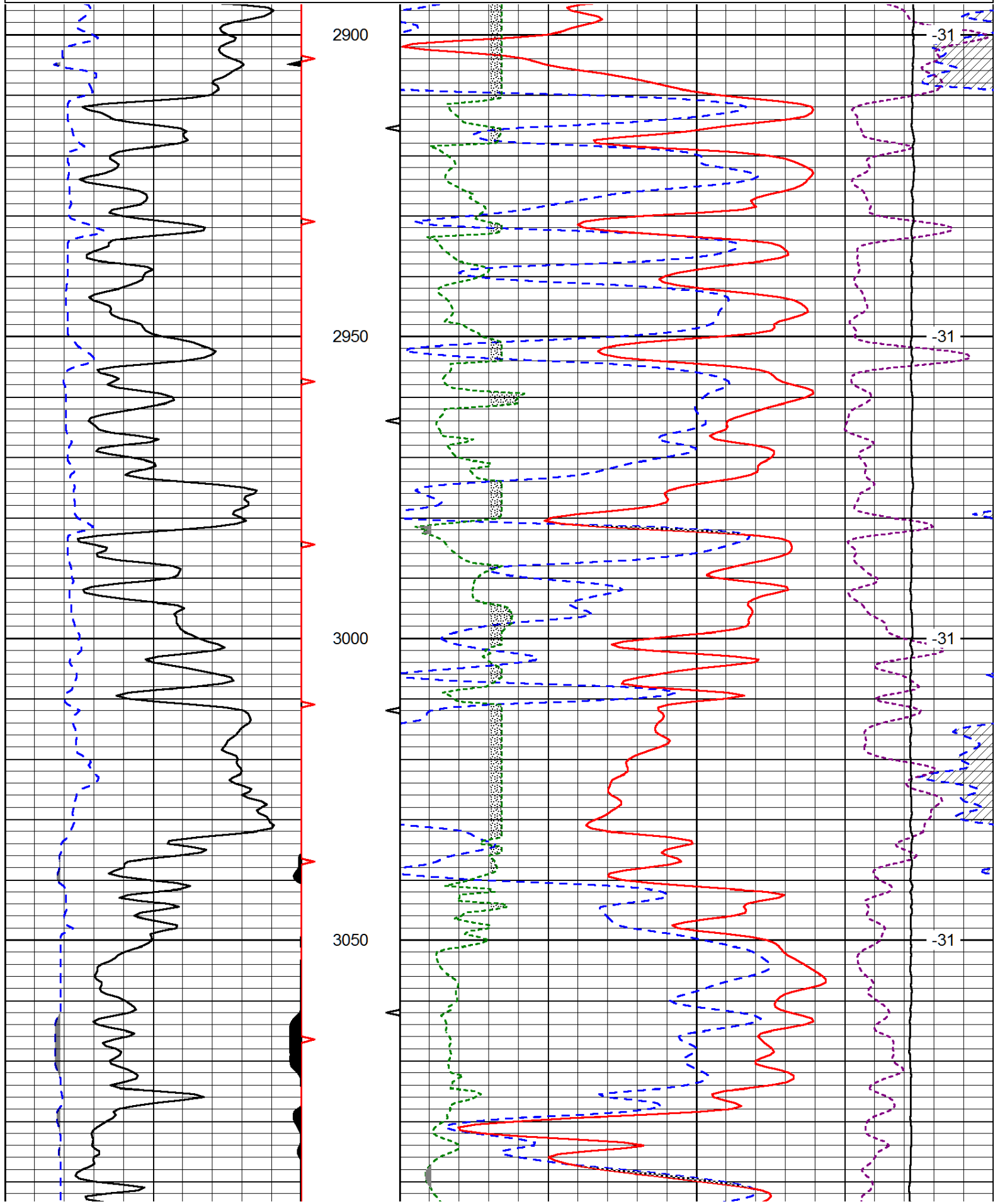


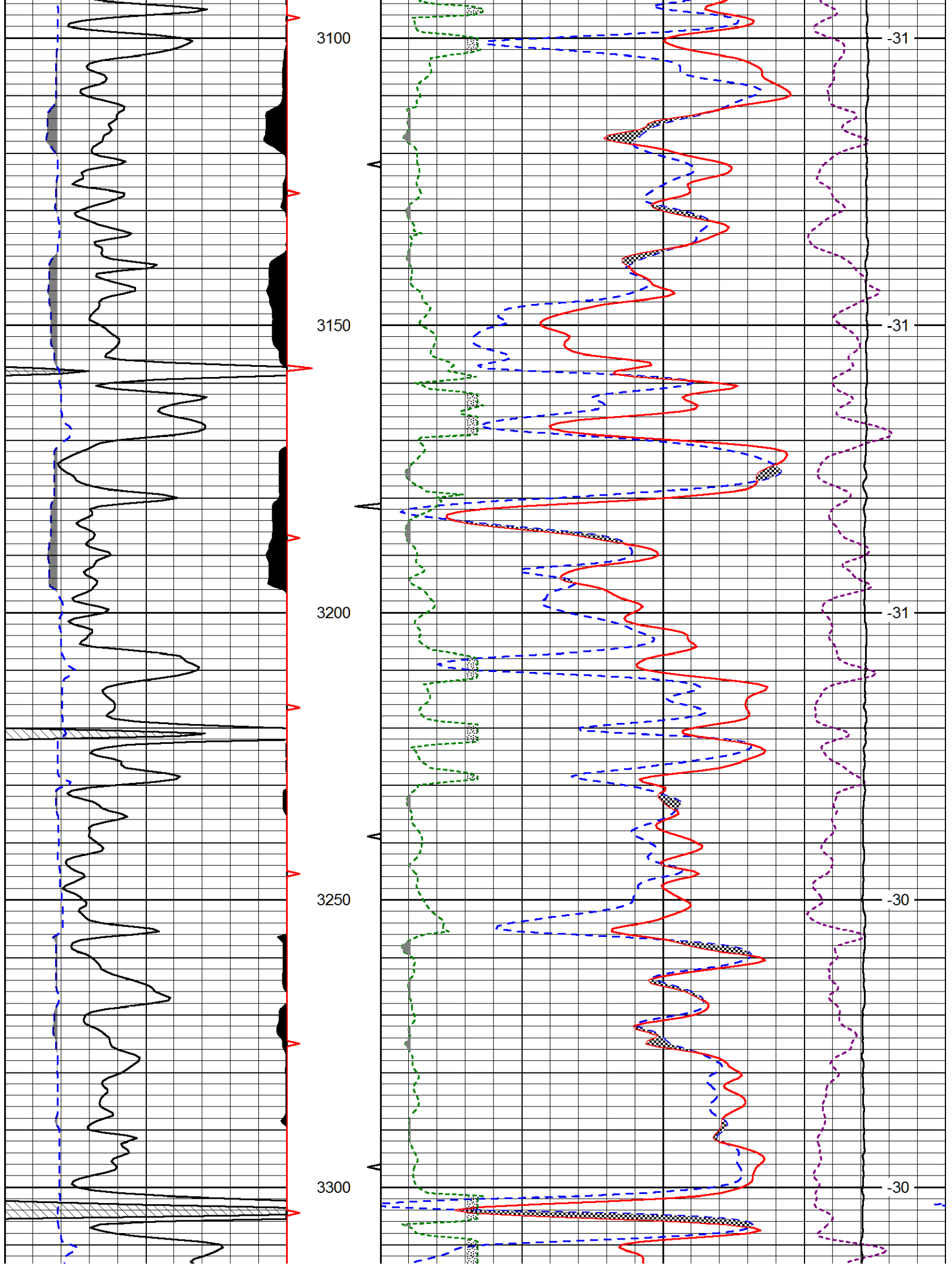
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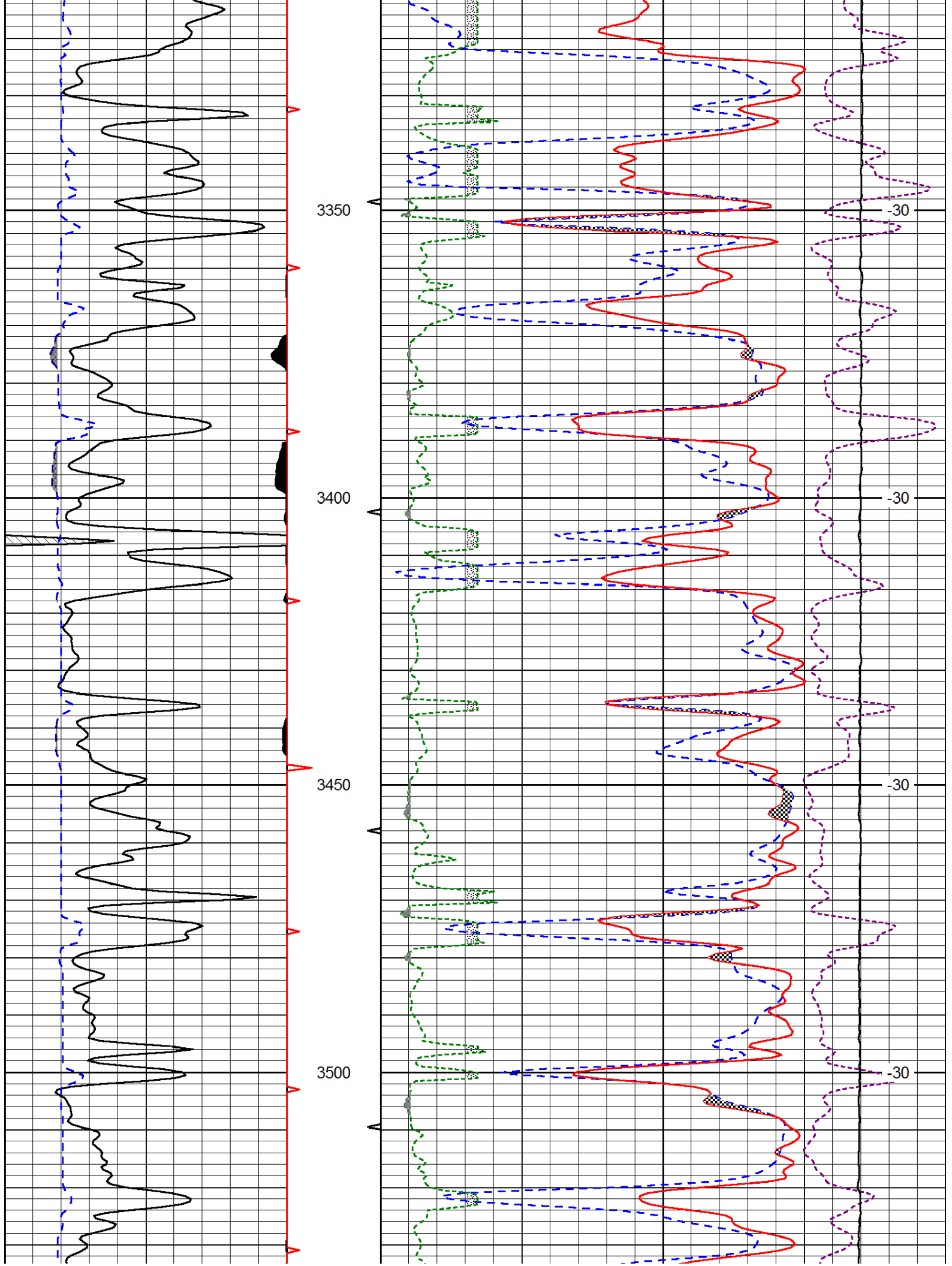


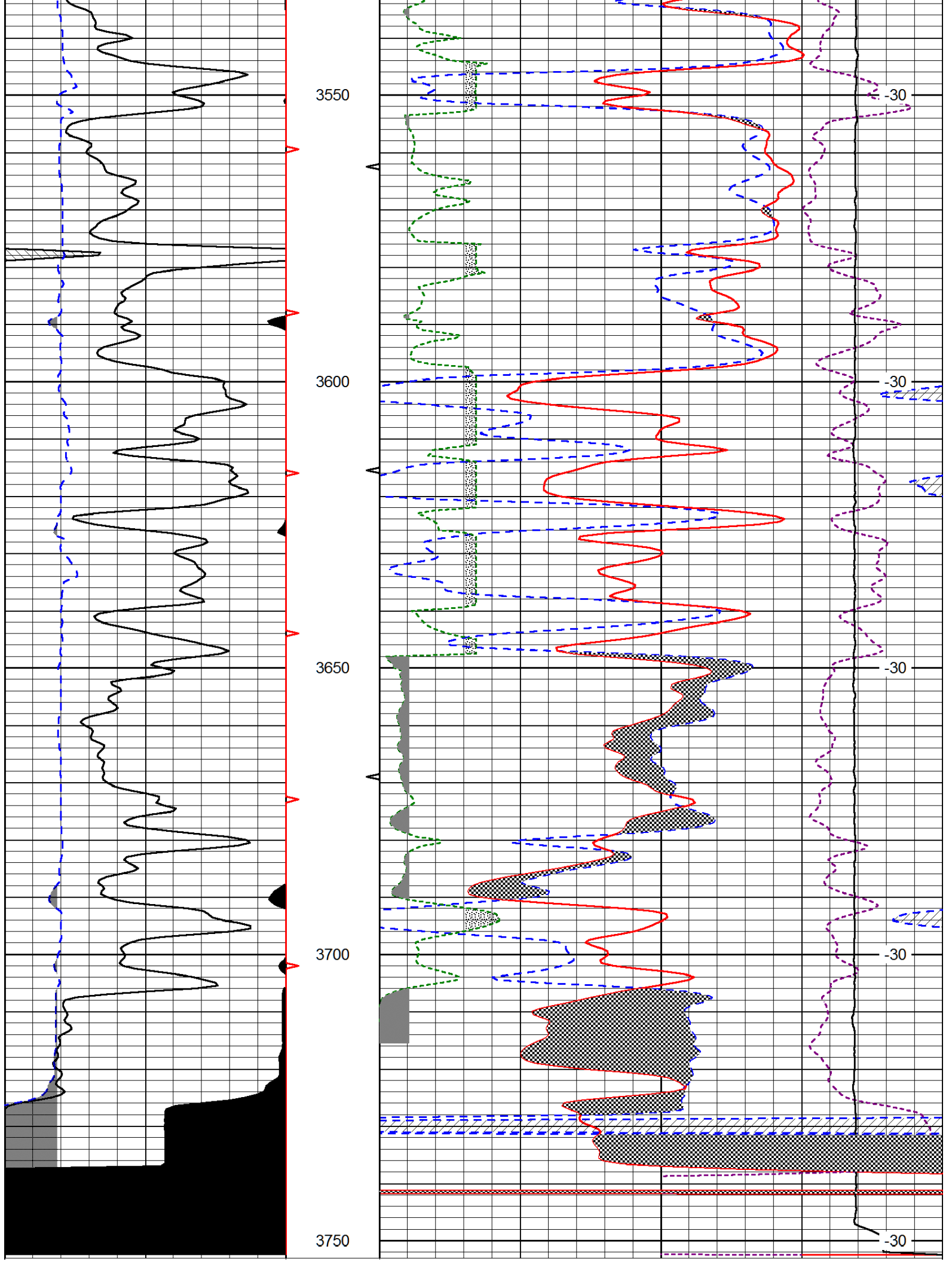
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
10000		Line Tension (lb)			0

LSPD  
(ft/min)









0	Gamma Ray (GAPI)	150
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)