



Pioneer Energy Services

## Dual Compensated Porosity Log

API No.	15-165-21,999-00-00		
Company	Black Tea Oil, LLC		
Well	Rose No. 3		
Field	Wildcat		
County	Rush		
State	Kansas		
Location	810' FNL & 2640' FEL		
Sec: 34	Twp: 18 S	Rge: 16 W	
Permanent Datum	Ground Level	Elevation 1994	
Log Measured From	Kelly Bushing	7	Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing		
		K.B. 2001	Elevation
		D.F. 1994	
		G.L. 1994	
		Other Services DIL/MEL	

Date	11/10/2012		
Run Number	One		
Type Log	CNL / CDL		
Depth Driller	3701		
Depth Logger	3702		
Bottom Logged Interval	3681		
Top Logged Interval	2900		
Type Fluid In Hole	Chemical		
Salinity, PPM CL	5000		
Density	9.4		
Level	Full		
Max. Rec. Temp. F	113		
Operating Rig Time	4 Hours		
Equipment -- Location	108   Hays		
Recorded By	D. Martin		
Witnessed By	Marc Downing		
Borehole Record			
Run No	Bit	From	To
One	12.25	00	1051
Two	7.875	1051	TD
Casing Record			
	Size	Wgt.	To
	8.625	23#	1051

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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.

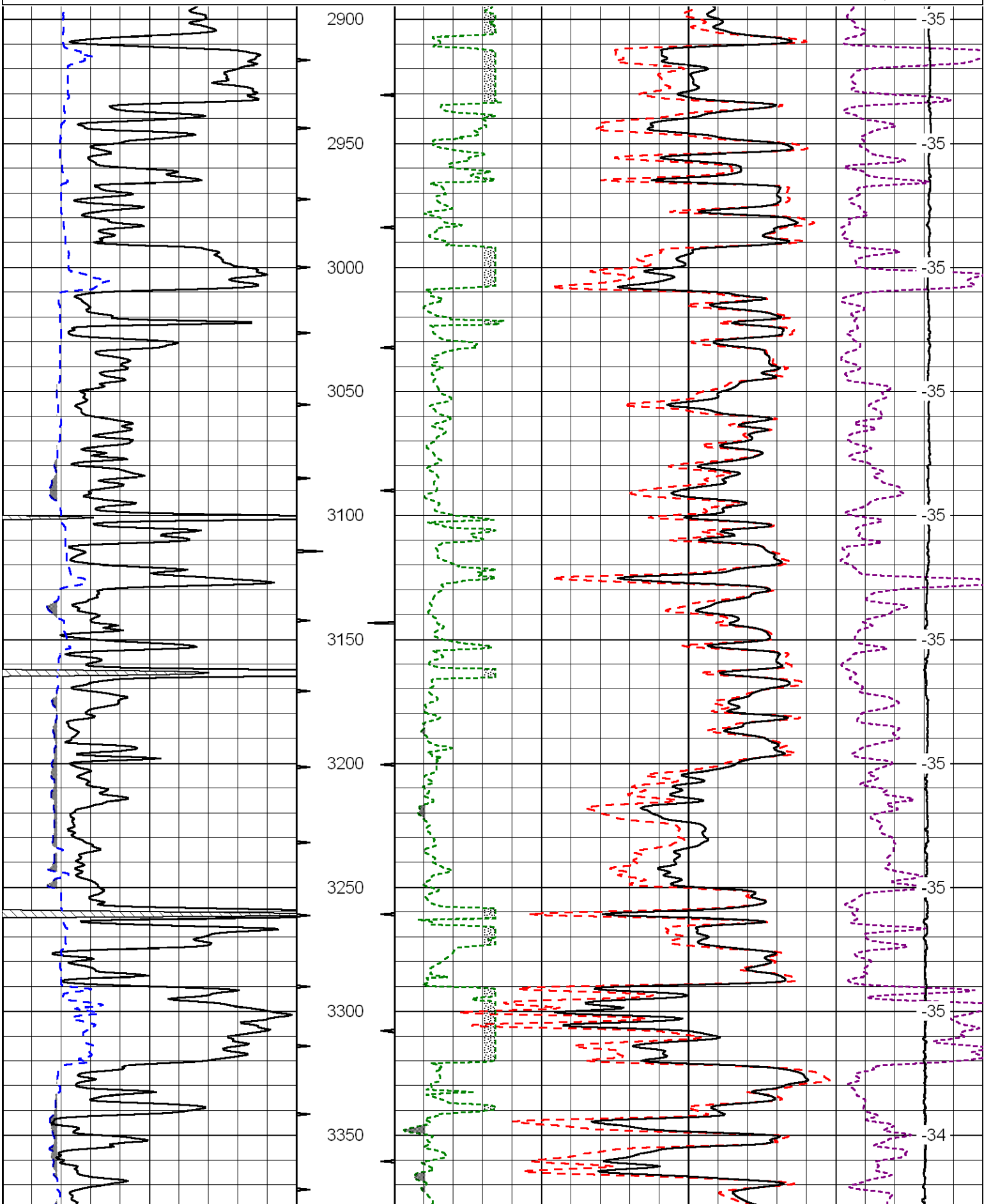
### Comments

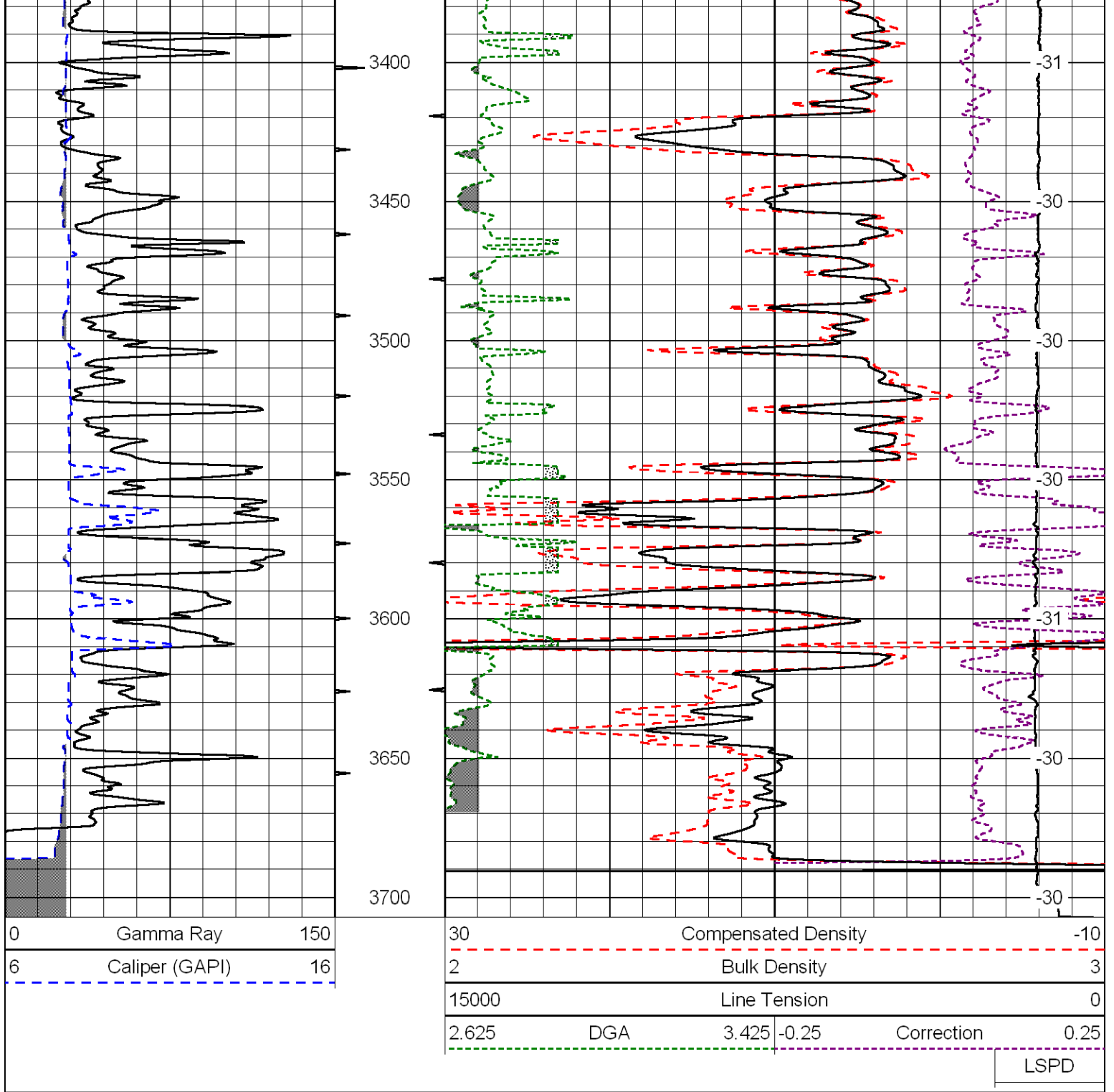
Thank you for using Log-Tech, Inc.  
(785) 625-3858  
  
Rush Center, KS  
12 E to 370 Rd., 1 S,  
1/2 E, S Into

Database File: bthd.db  
 Dataset Pathname: DIL/btstk  
 Presentation Format: cdl  
 Dataset Creation: Sat Nov 10 06:01:30 2012  
 Charted by: Depth in Feet scaled 1:600

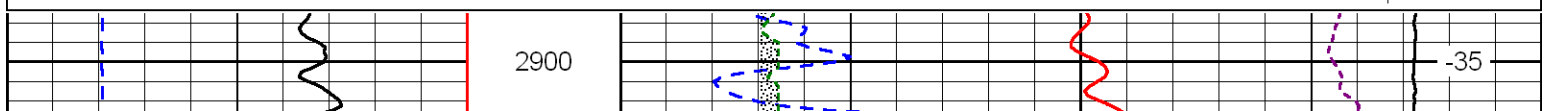
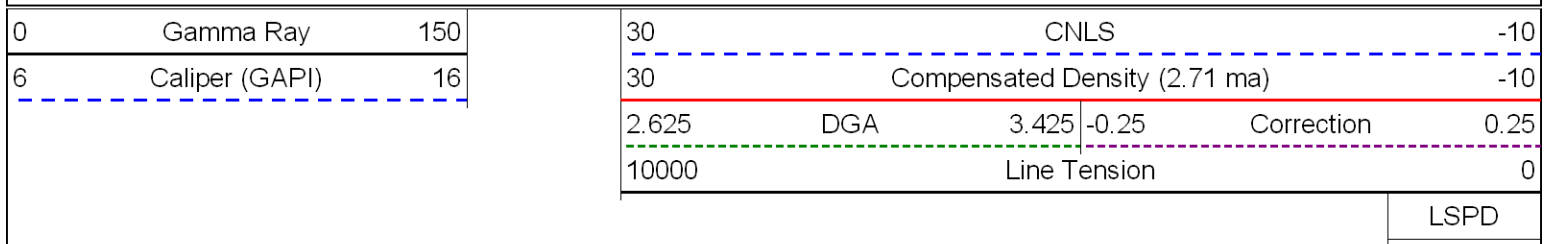
0	Gamma Ray	150
6	Caliper (GAPI)	16

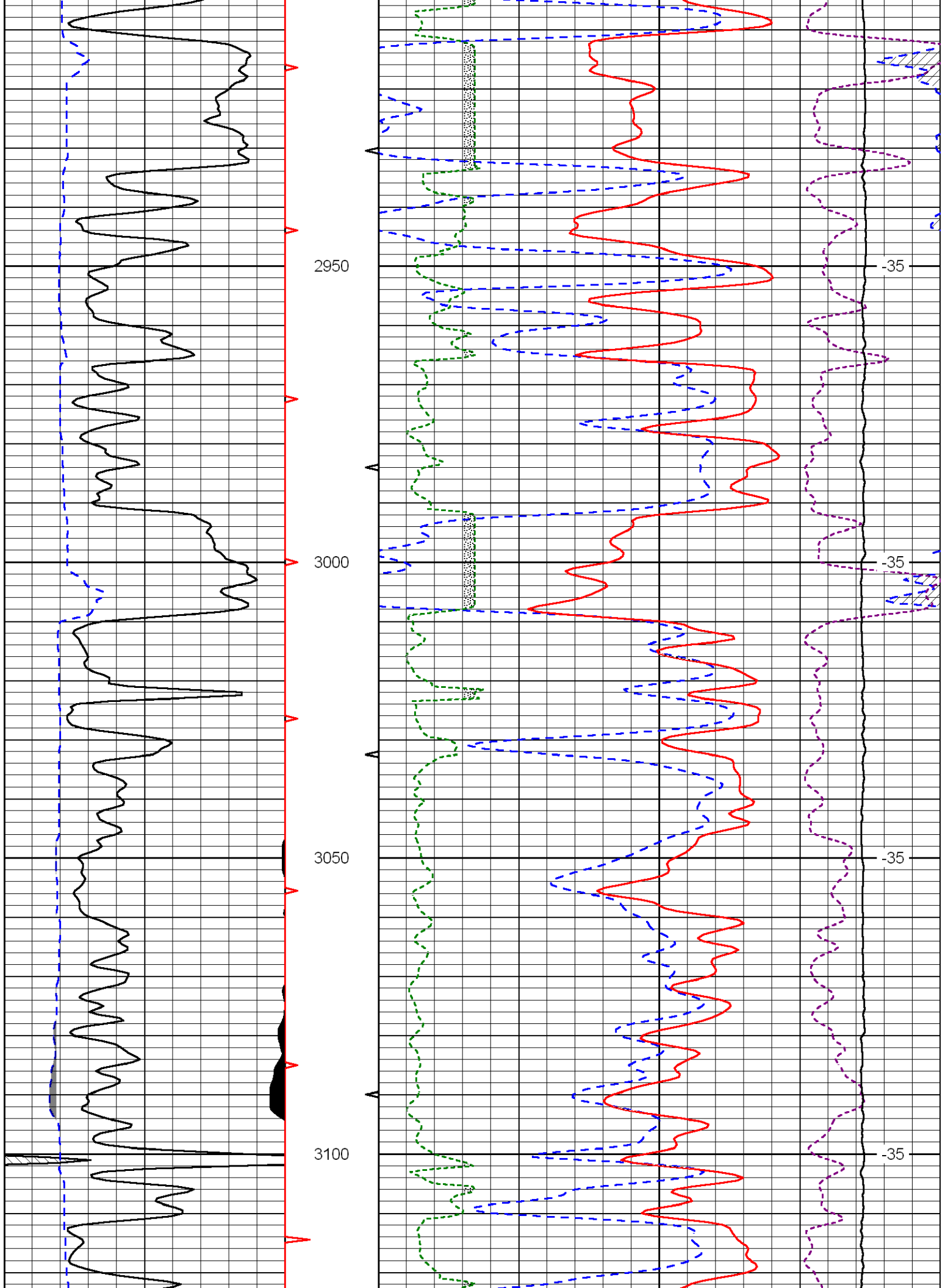
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
			Correction
			0.25

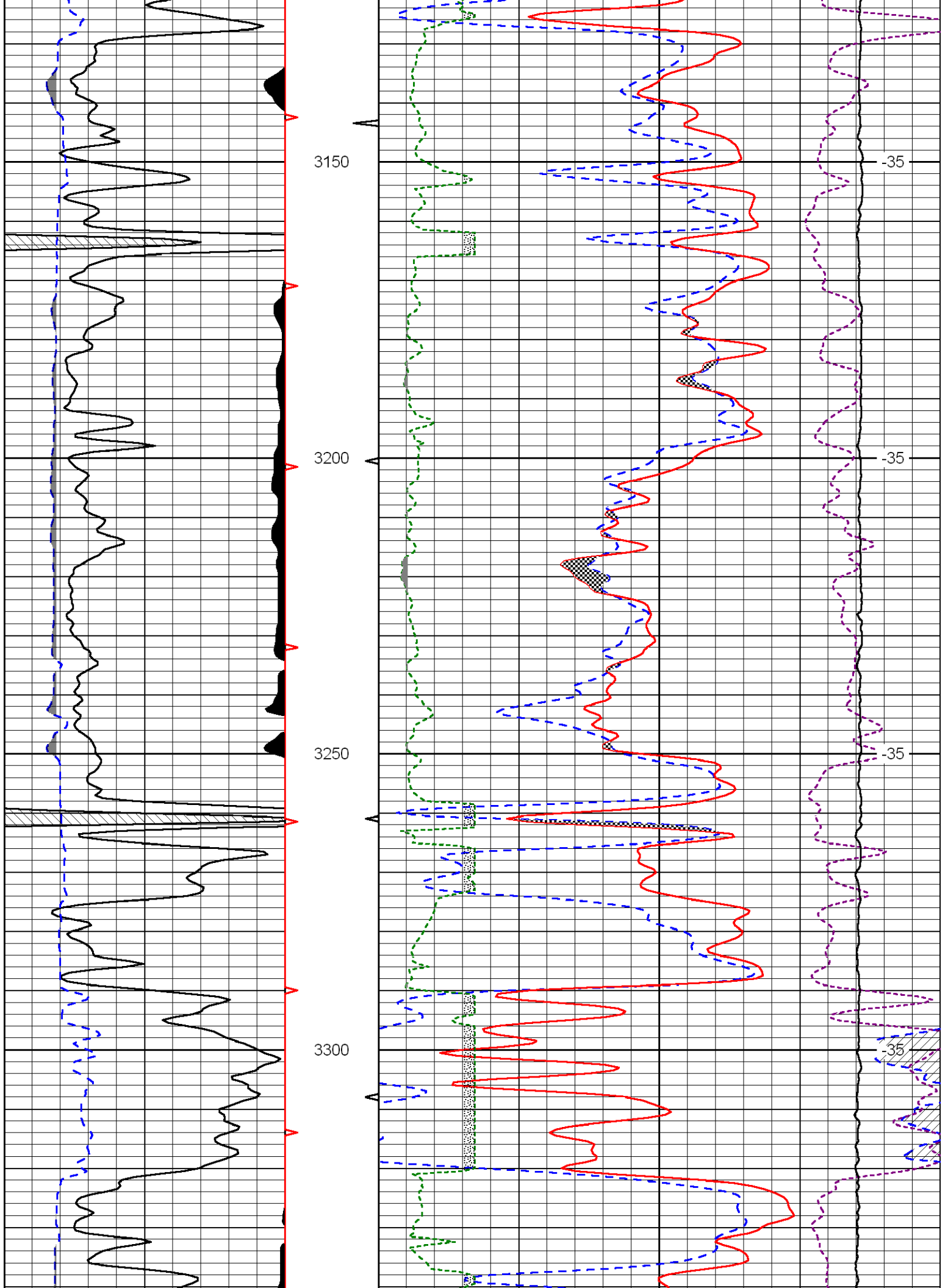


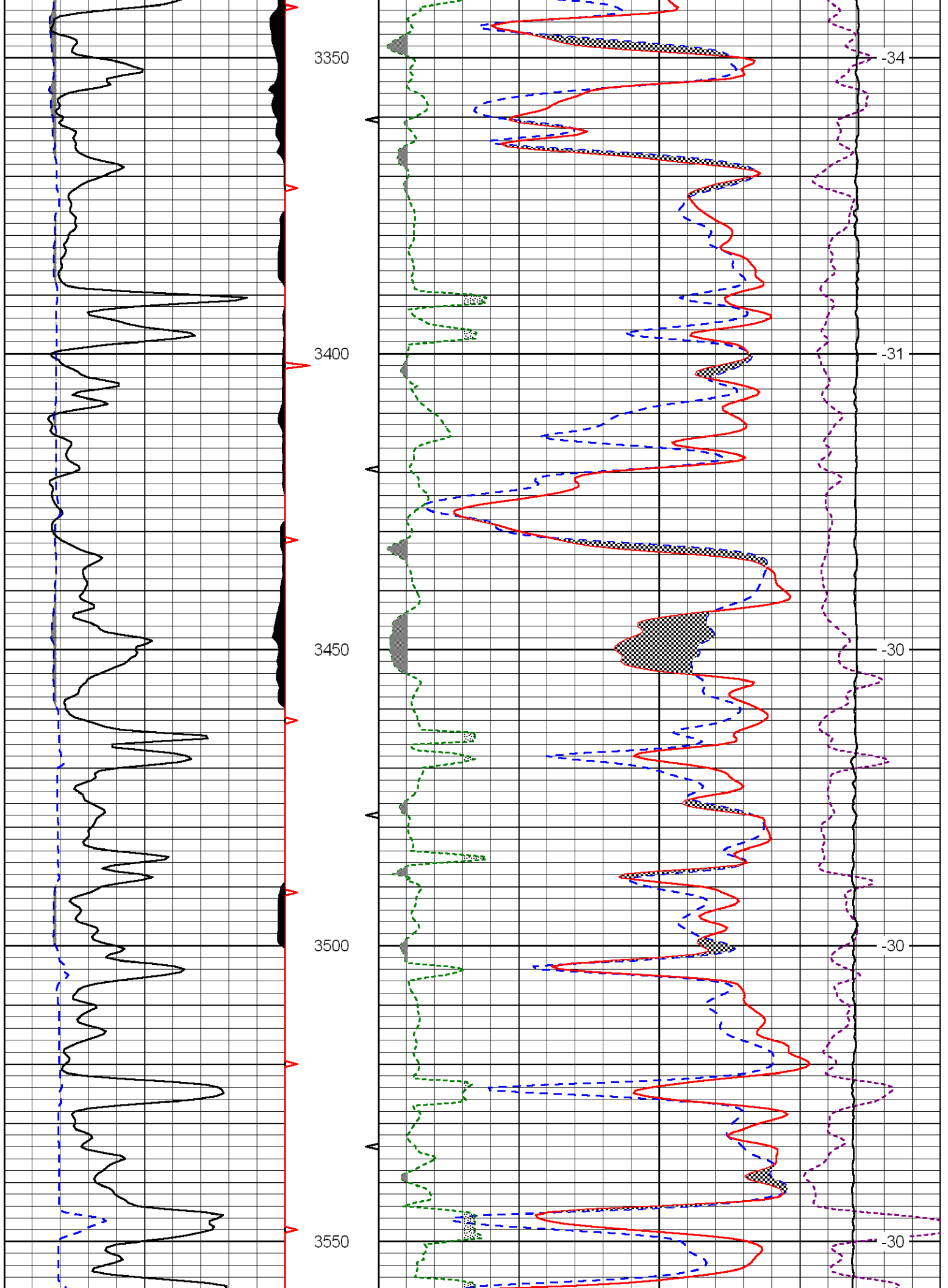


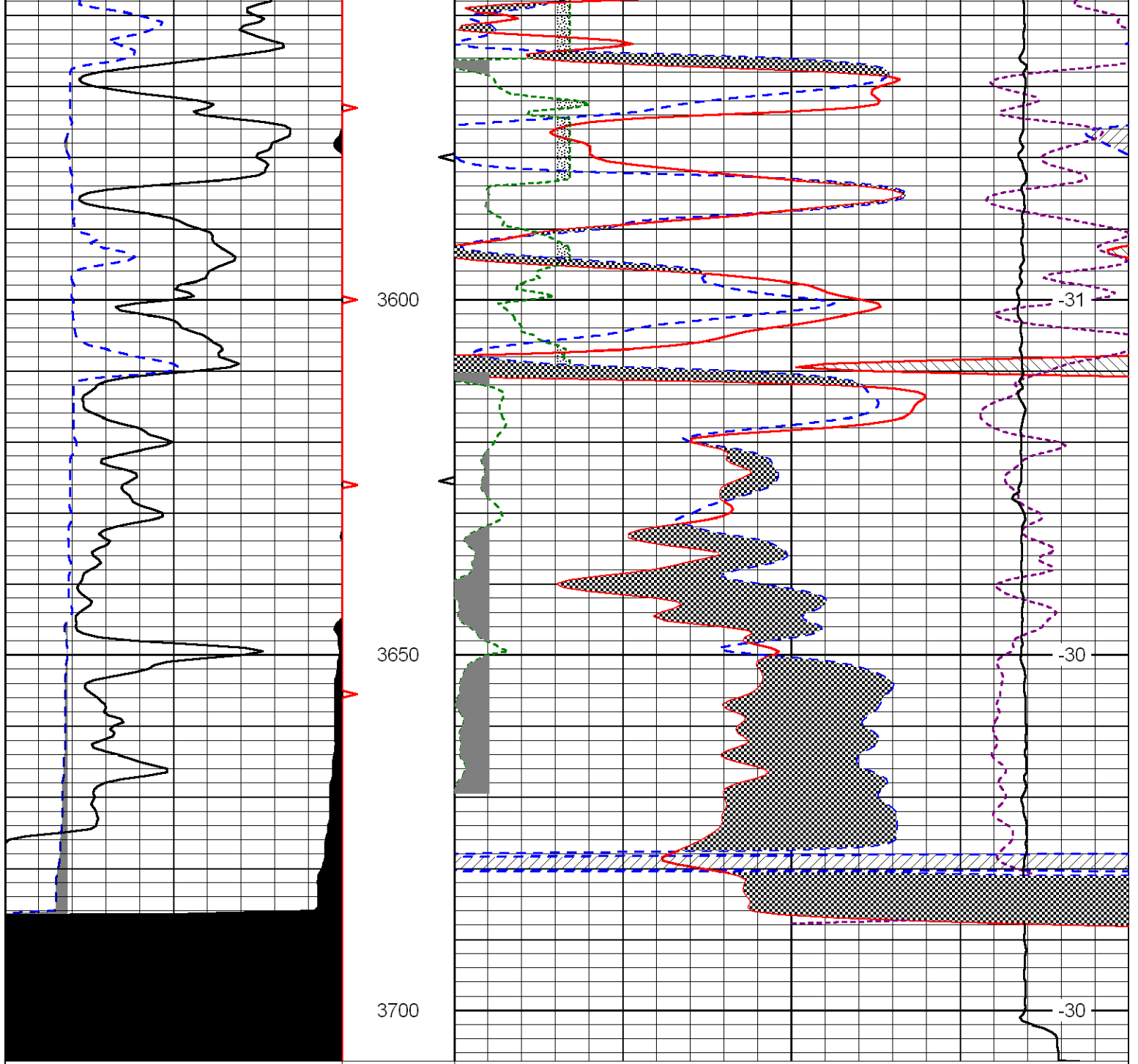
Database File: bthd.db  
 Dataset Pathname: DIL/btstk  
 Presentation Format: cndlspec  
 Dataset Creation: Sat Nov 10 06:01:30 2012  
 Charted by: Depth in Feet scaled 1:240











0	Gamma Ray	150
6	Caliper (GAPI)	16

30	CNLS			-10	
30	Compensated Density (2.71 ma)			-10	
2.625	DGA	3.425	-0.25	Correction	0.25
10000	Line Tension			0	

LSPD