



Pioneer Energy Services

Dual Compensated Porosity Log

API No.	15-141-20,463-00-00		
Company	Bruce Oil Company, LLC		
Well	KC Unit No. 1		
Field	Kill Creek Northwest		
County	Osborne	State	Kansas
Location	NW-NW-NE-SE 2500' FSL & 1275' FEL		
	Sec: 16	Twp: 8S	Rge: 14W
			Elevation 1755
			Other Services DILMEL
Permanent Datum	Ground Level	Kelly Bushing	Elevation 1755
Log Measured From	Kelly Bushing	5 Ft. Above Perm. Datum	K.B. 1760
Drilling Measured From	Kelly Bushing		D.F. G.L. 1755

Date	10/24/13		
Run Number	One		
Type Log	CNL / CDL		
Depth Driller	3070		
Depth Logger	3068		
Bottom Logged Interval	3047		
Top Logged Interval	1600		
Type Fluid In Hole	Chemical		
Salinity, PPM CL	1,200		
Density	9.2		
Level	Full		
Max. Rec. Temp. F	107		
Operating Rig Time	3 Hours		
Equipment -- Location	108 Hays		
Recorded By	J. Henrickson		
Witnessed By	Bob Peterson		

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	723	8.625	23#	00	723
Two	7.875	723	TD				

<<< Fold Here >>>

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

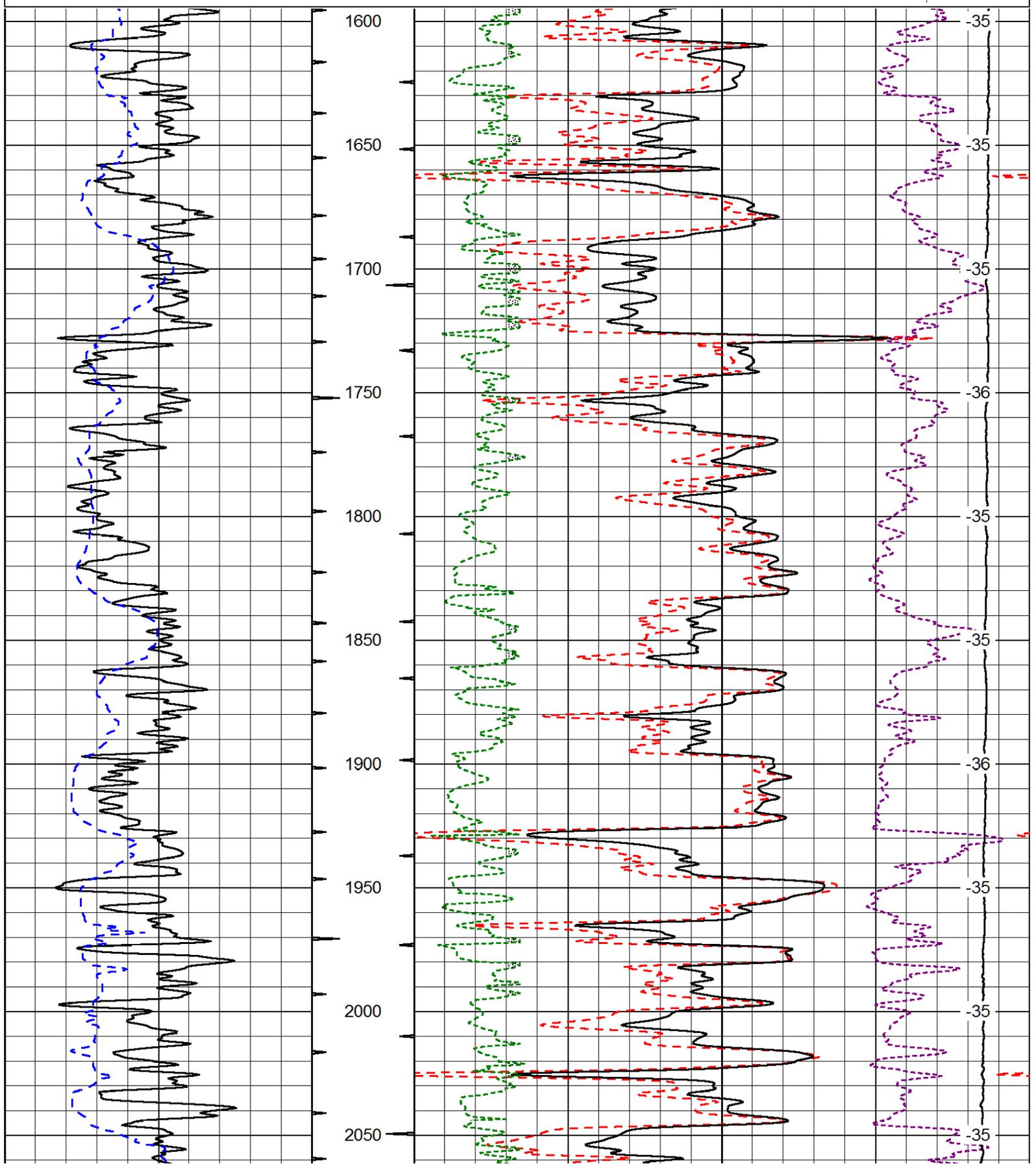
Thank you for using Log-Tech, Inc.
 (785) 625-3858

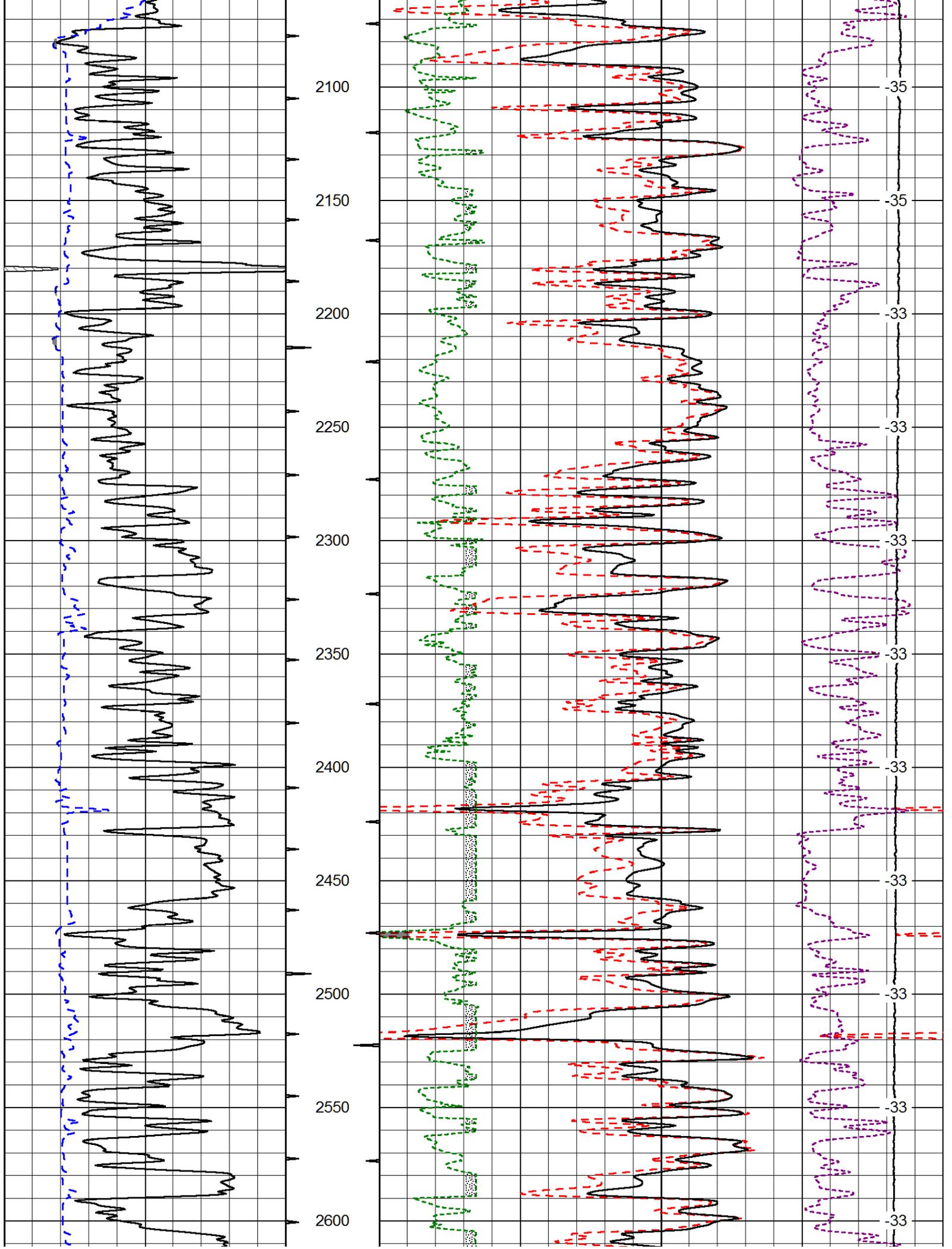
 Natoma Kansas
 11 North on 280th Rd(657 Rd), 1 East, 1 North, 6 East, South Into

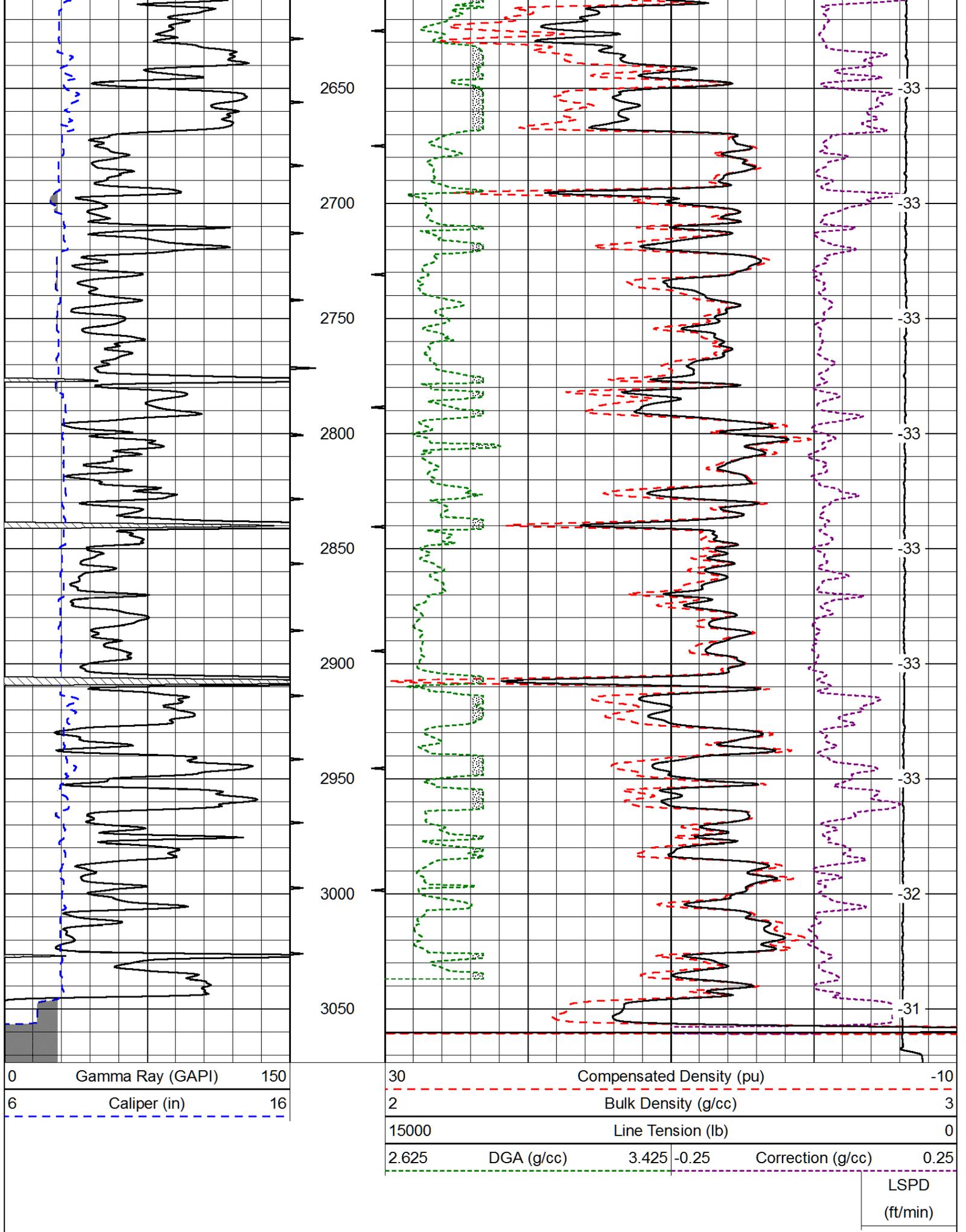
Database File: bruce_kc_unit_1hd.db
 Dataset Pathname: DIL/brustk
 Presentation Format: cdl
 Dataset Creation: Thu Oct 24 17:03:25 2013
 Charted by: Depth in Feet scaled 1:600

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)					

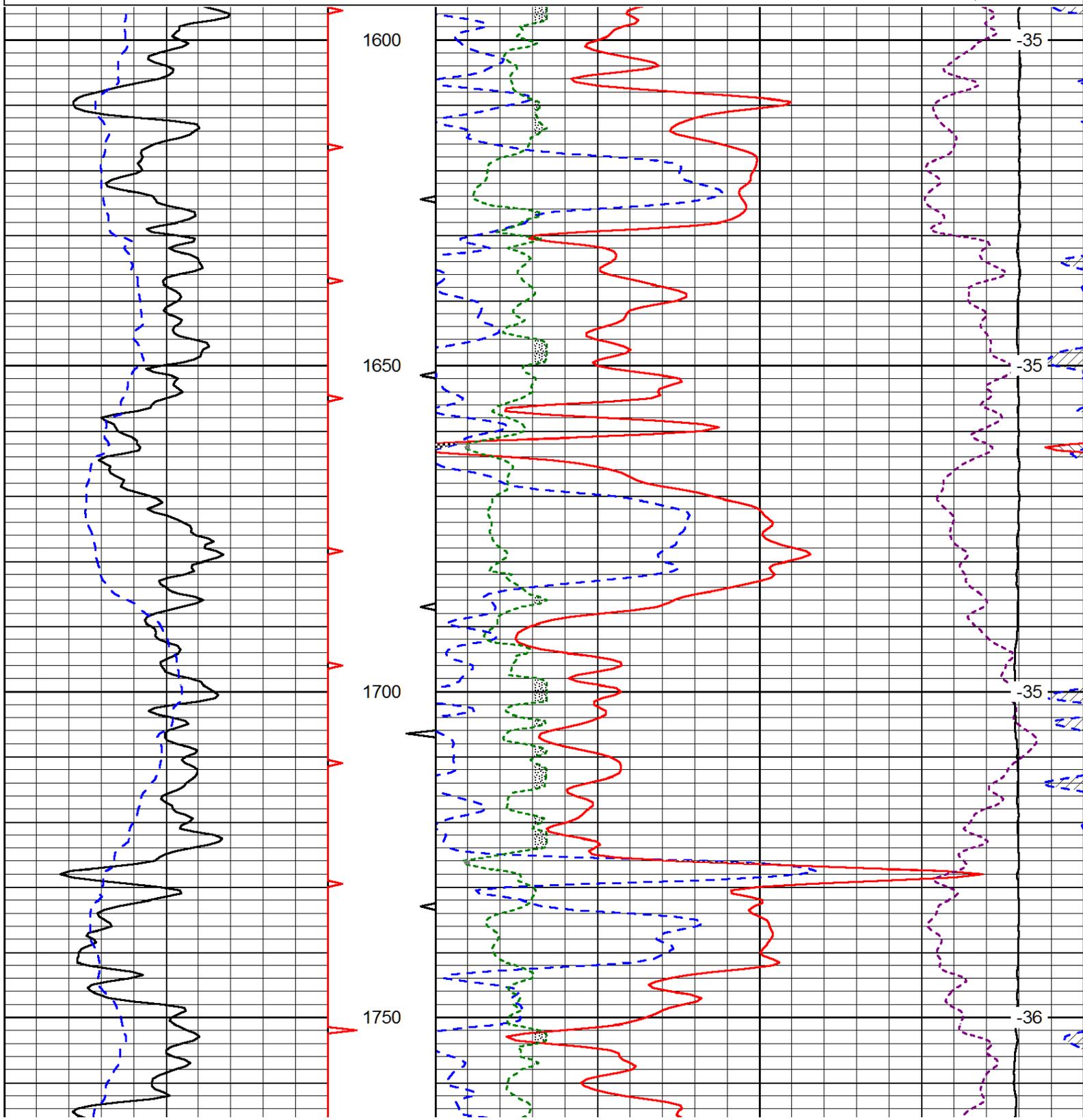


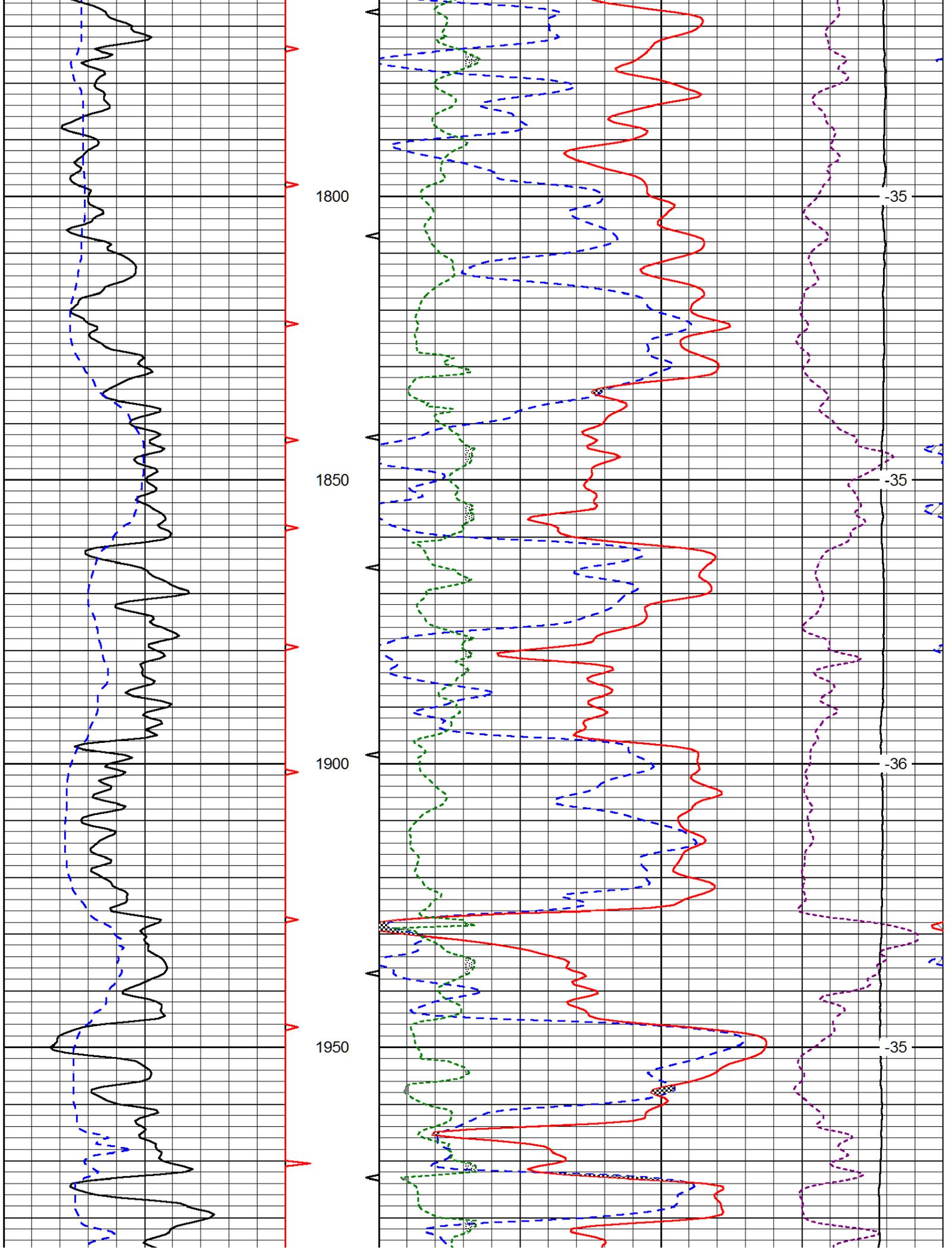


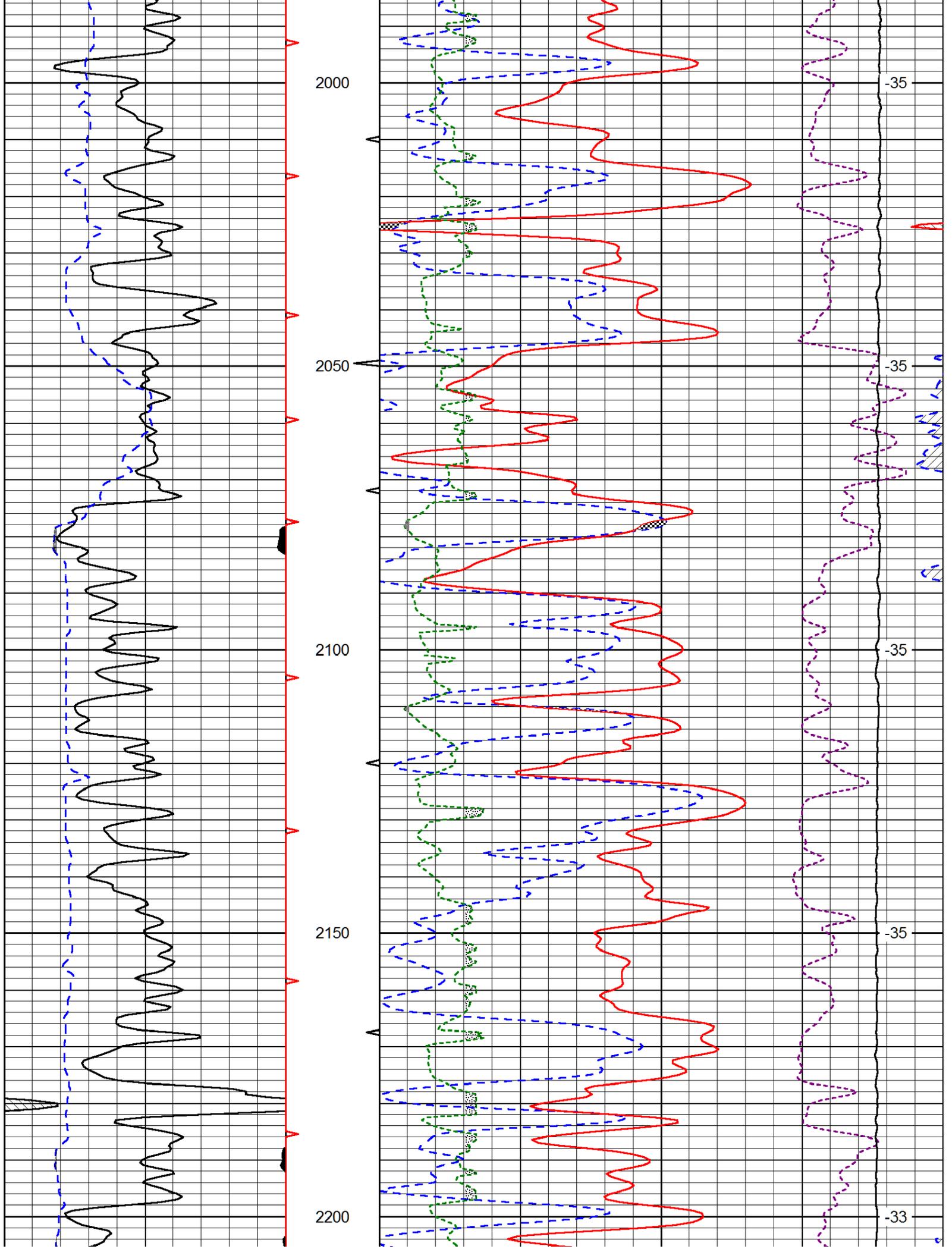


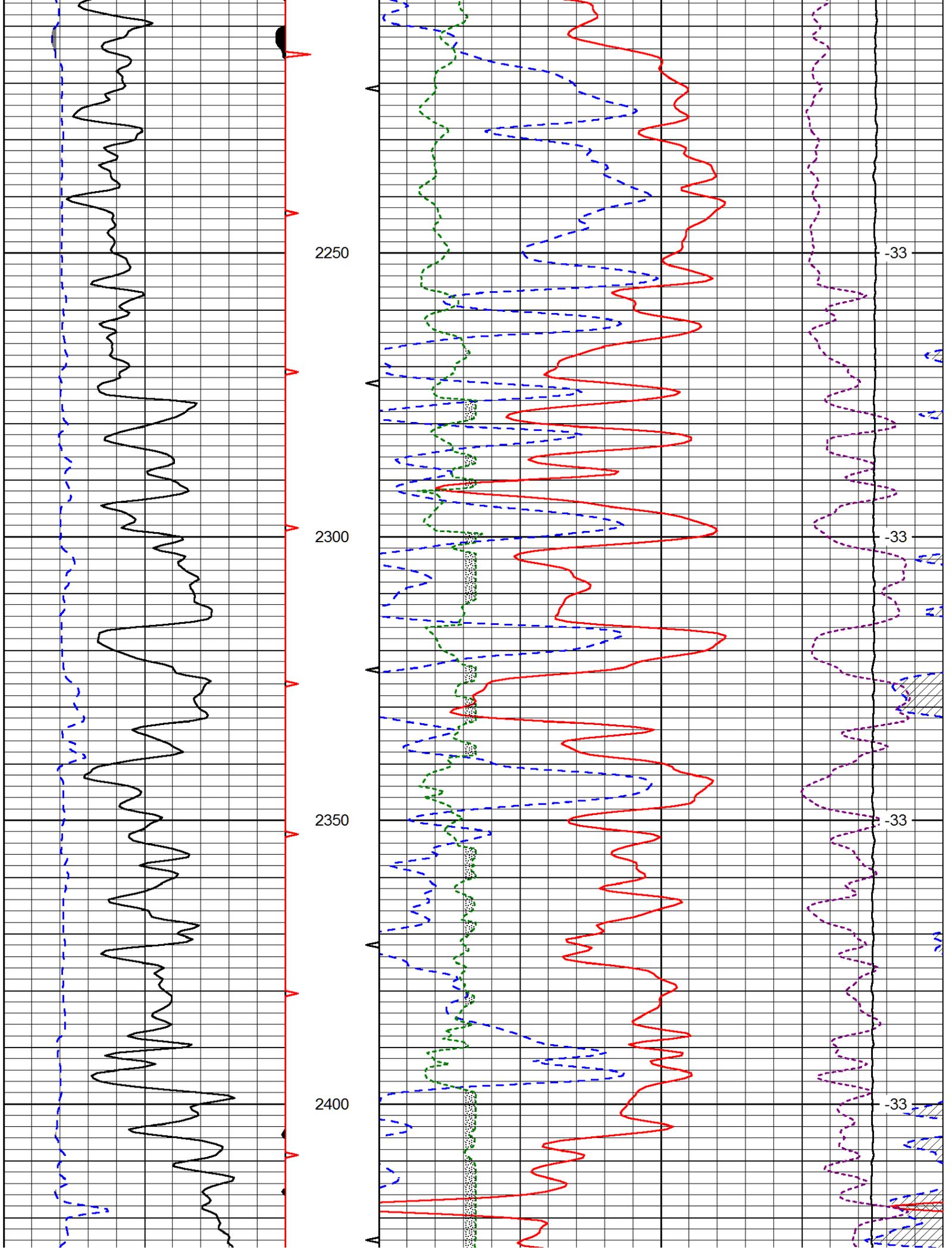
Database File: bruce_kc_unit_1hd.db
 Dataset Pathname: DIL/brustk
 Presentation Format: cndlspec
 Dataset Creation: Thu Oct 24 17:03:25 2013
 Charted by: Depth in Feet scaled 1:240

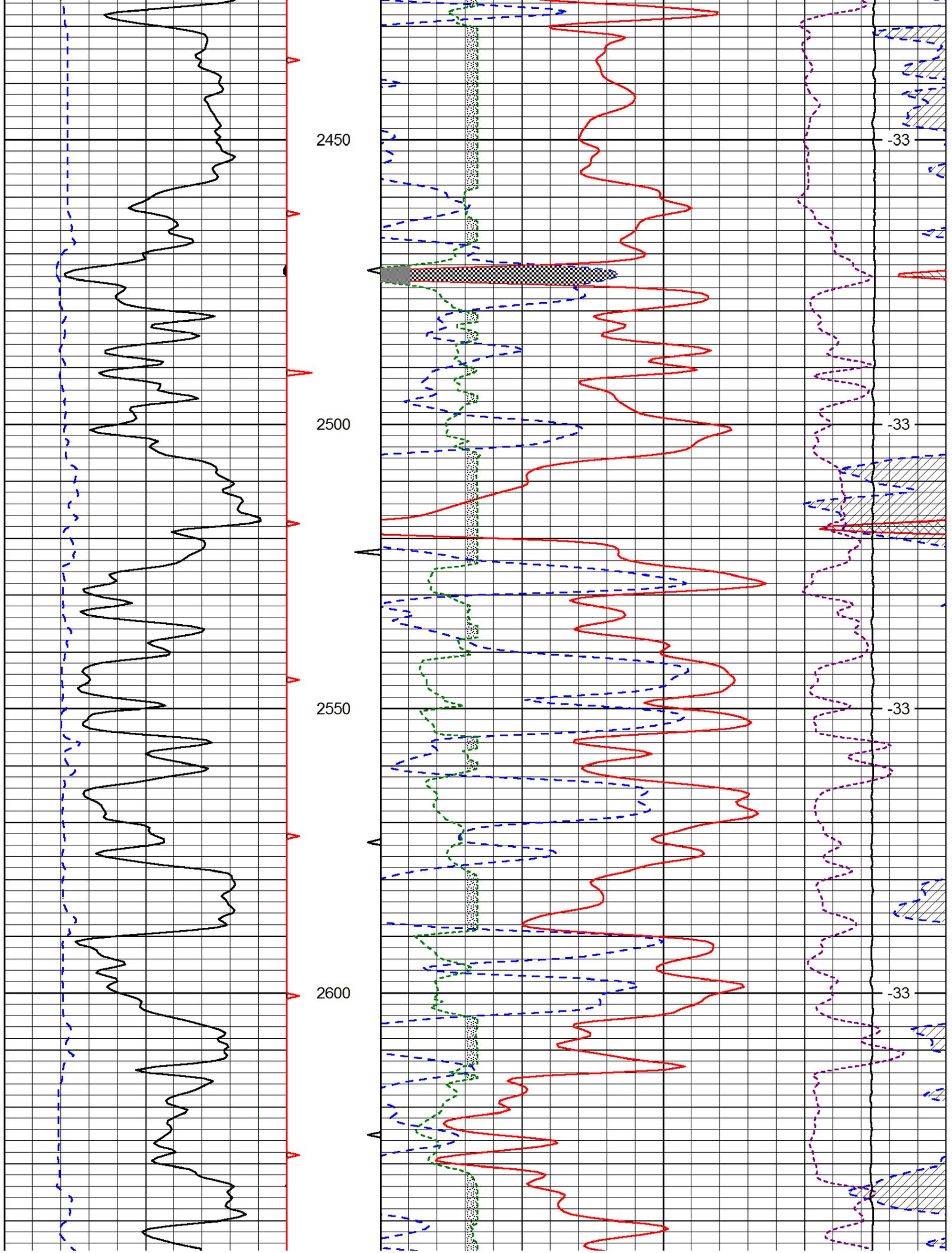
0	Gamma Ray (GAPI)	150	30	CNLS (pu)		-10		
6	Caliper (in)	16	30	Compensated Density (2.71 ma) (pu)		-10		
			2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
			10000	Line Tension (lb)		0		
								LSPD (ft/min)

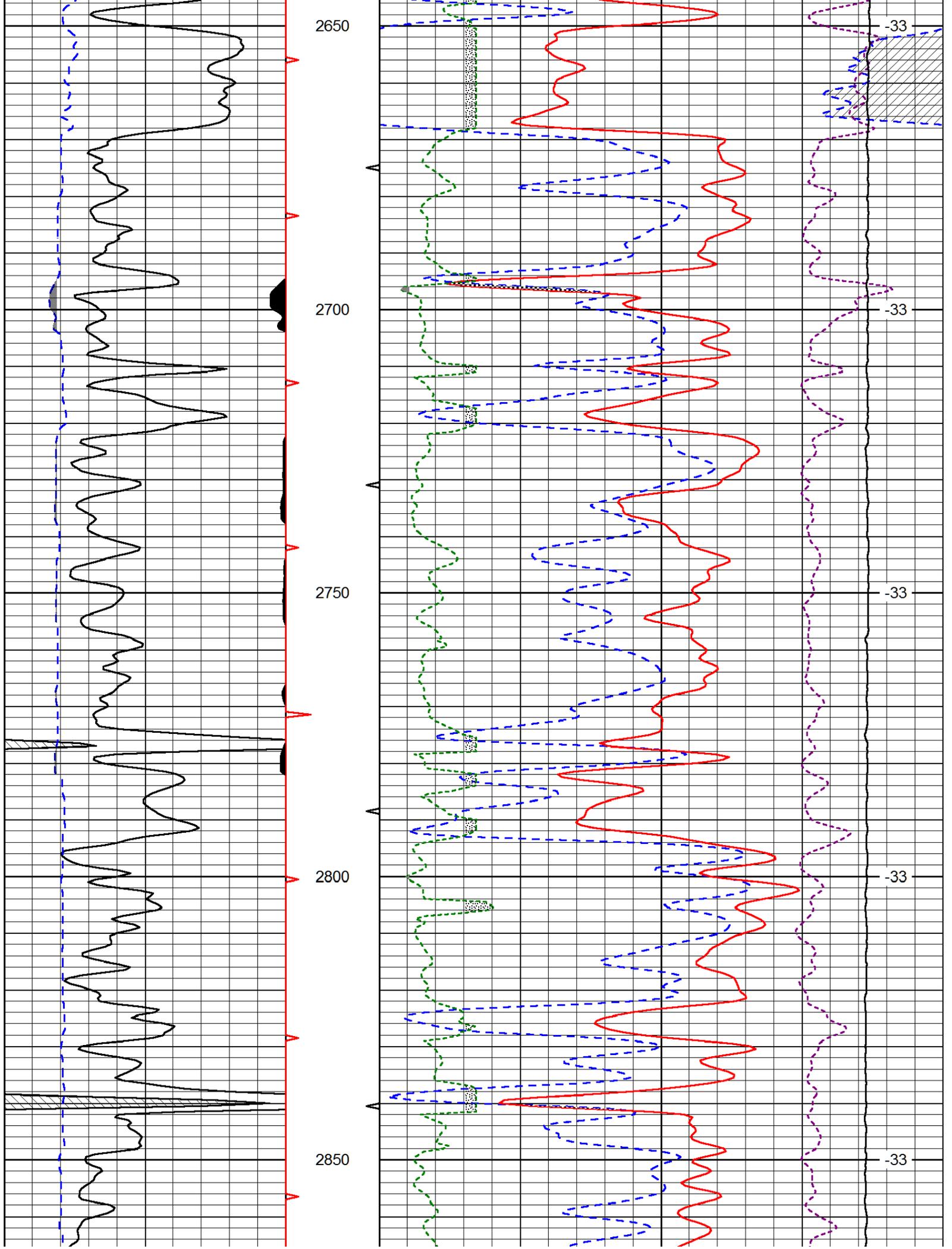


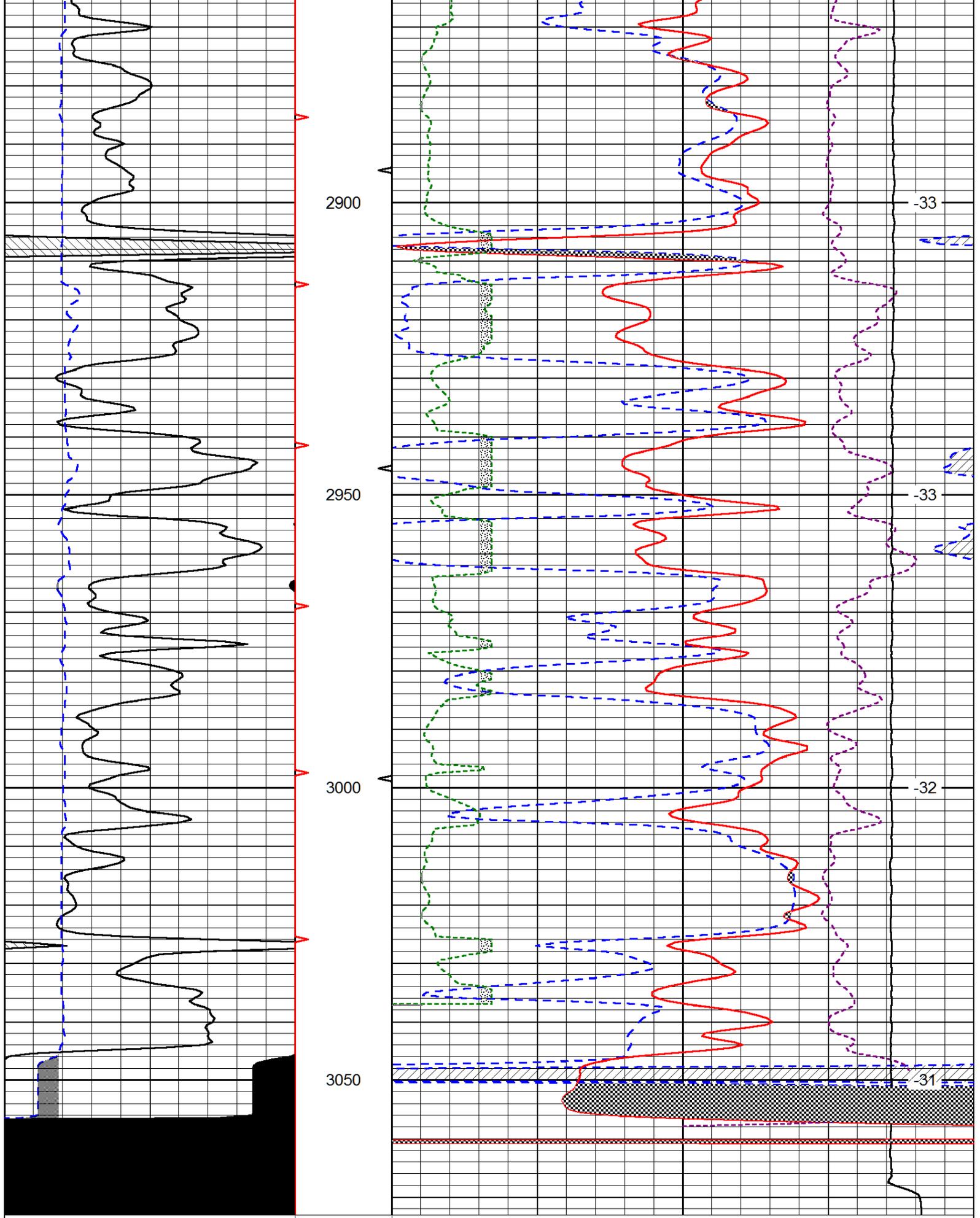












0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

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)