



Pioneer Energy Services

Dual Compensated Porosity Log

API No.	15-159-22,815-00-00		
Company	Bird Dog Oil, LLC		
Well	Pioneer-Schubert No. 4-23		
Field	Chase-Silica		
County	Rice	State	Kansas
Location	1005' FNL & 2130' FWL		
Sec: 23	Twp: 19S	Rge: 10W	Other Services DIL MEL/BHCS
Permanent Datum	Ground Level	Elevation 1740	Elevation
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum	K.B. 1748
Drilling Measured From	Kelly Bushing		D.F. G.I.L. 1740

Date	12/19/14
Run Number	One
Type Log	CNL / CDL
Depth Driller	3350
Depth Logger	3350
Bottom Logged Interval	3329
Top Logged Interval	2500
Type Fluid In Hole	Chemical
Salinity, PPM CL	7,800
Density	9.2
Level	Full
Max. Rec. Temp. F	110
Operating Rig Time	4 Hours
Equipment -- Location	108 Hays
Recorded By	J. Henrickson
Witnessed By	Adam Nighswonger

Borehole Record		Casing Record					
Run No	Bit From	To	Size	Wgt.	From	To	
One	12.25	00	333	8.625	23#	00	333
Two	7.875	333					

<<< 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

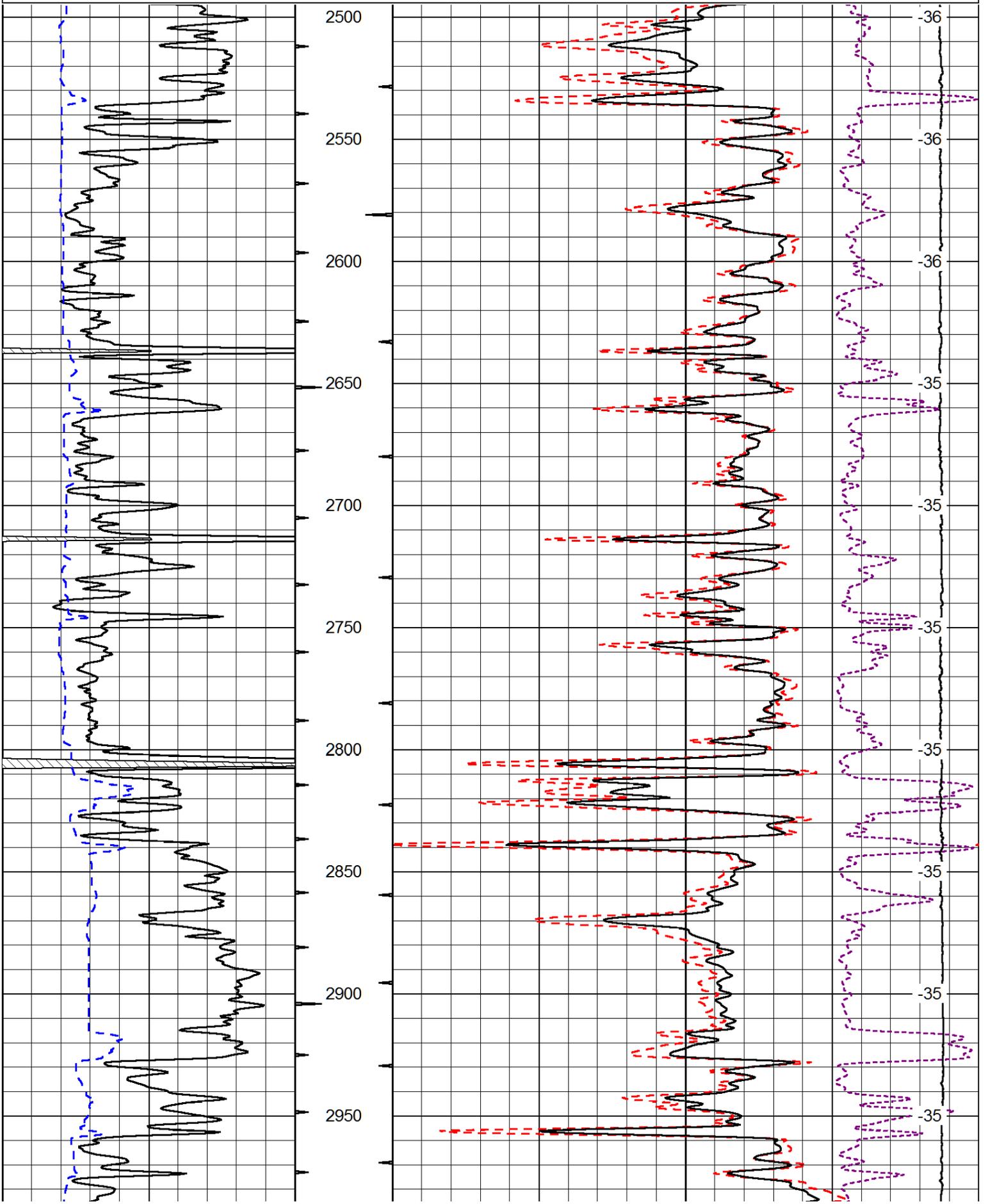
Thank you for using Log-Tech, Inc.
(785) 625-3858

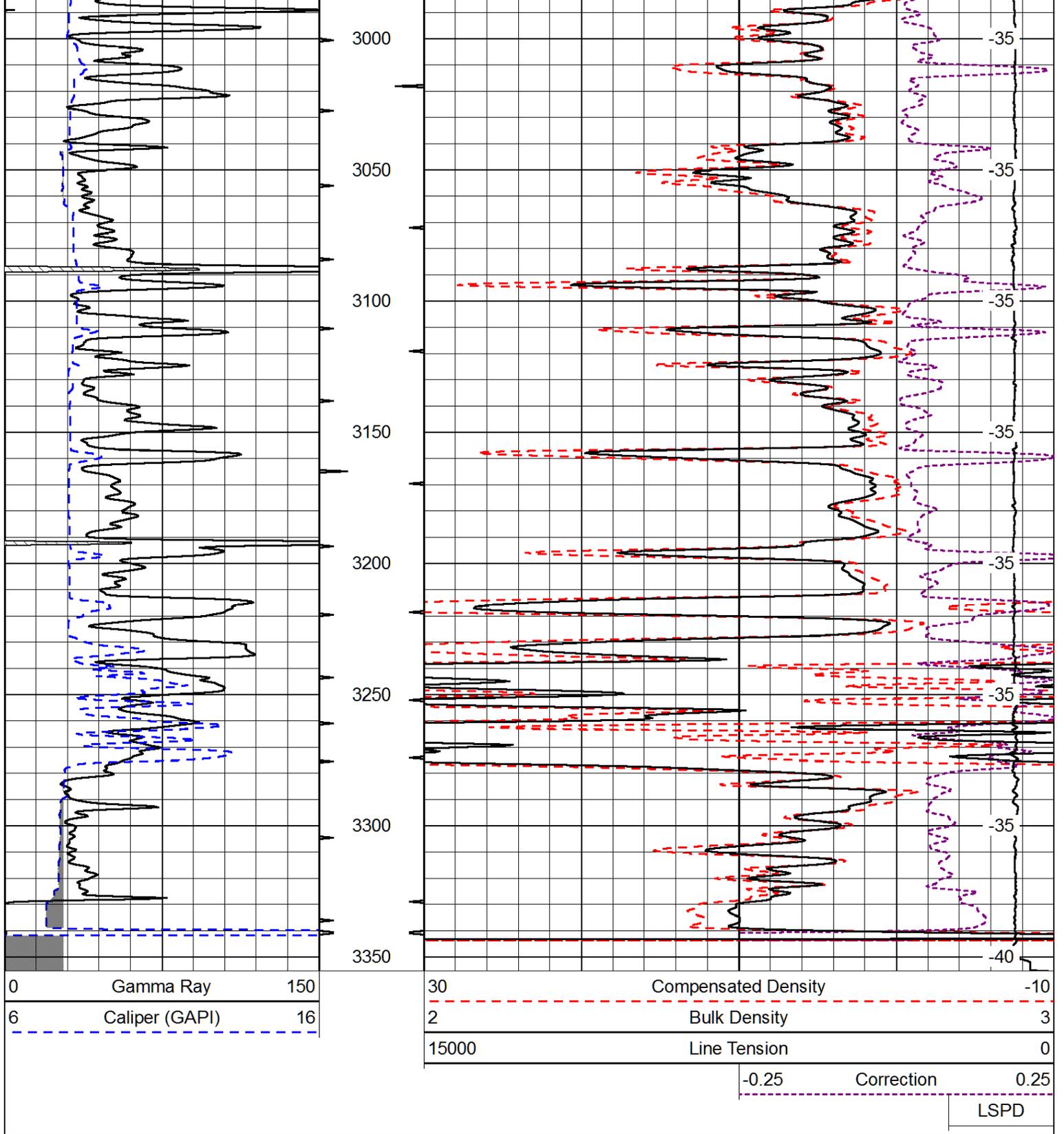
Ellinwood Kansas
9 East to 5 Rd, 3 North, 1/2 East, South Into

Database File: birddogoil_pioneer_schubert_4_23hd.db
 Dataset Pathname: DIL/bdstk
 Presentation Format: cdl
 Dataset Creation: Fri Dec 19 06:49:49 2014
 Charted by: Depth in Feet scaled 1:600

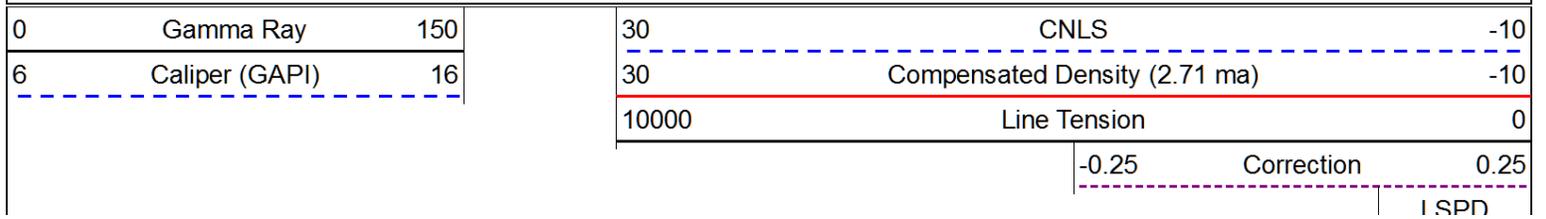
0	Gamma Ray	150
6	Caliper (GAPI)	16

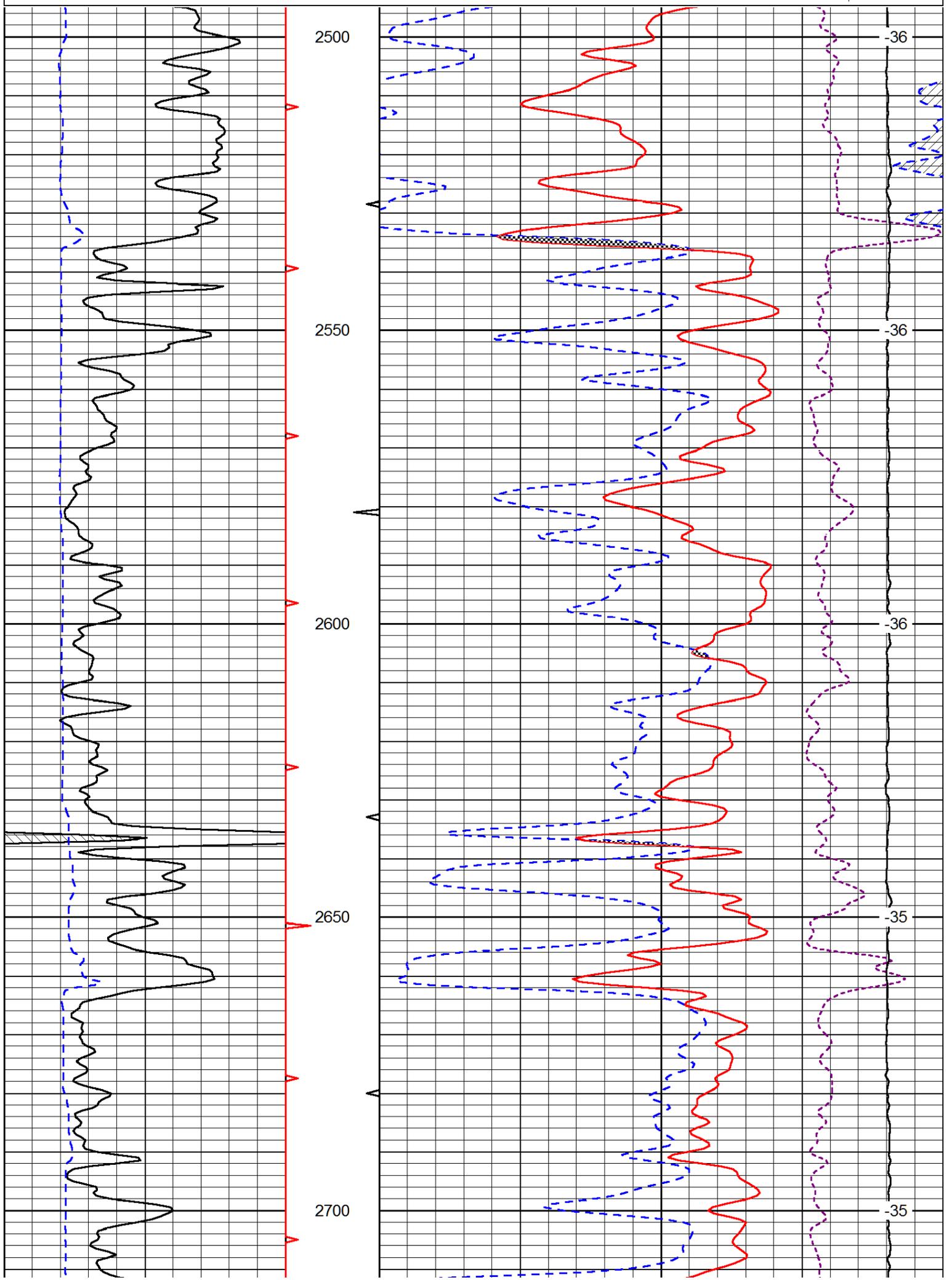
30	Compensated Density	-10
2	Bulk Density	3
15000	Line Tension	0
-0.25	Correction	0.25
		LSPD

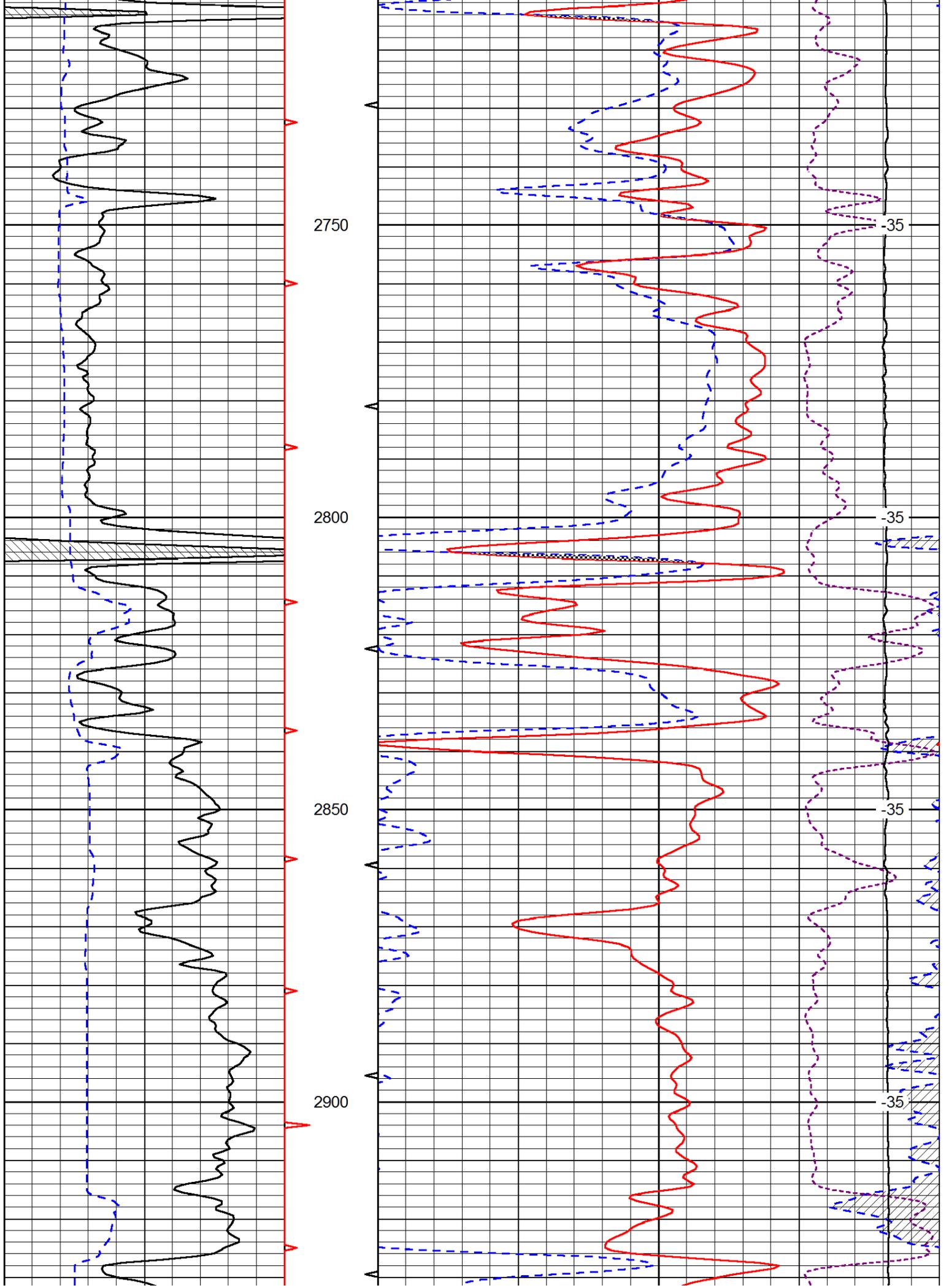


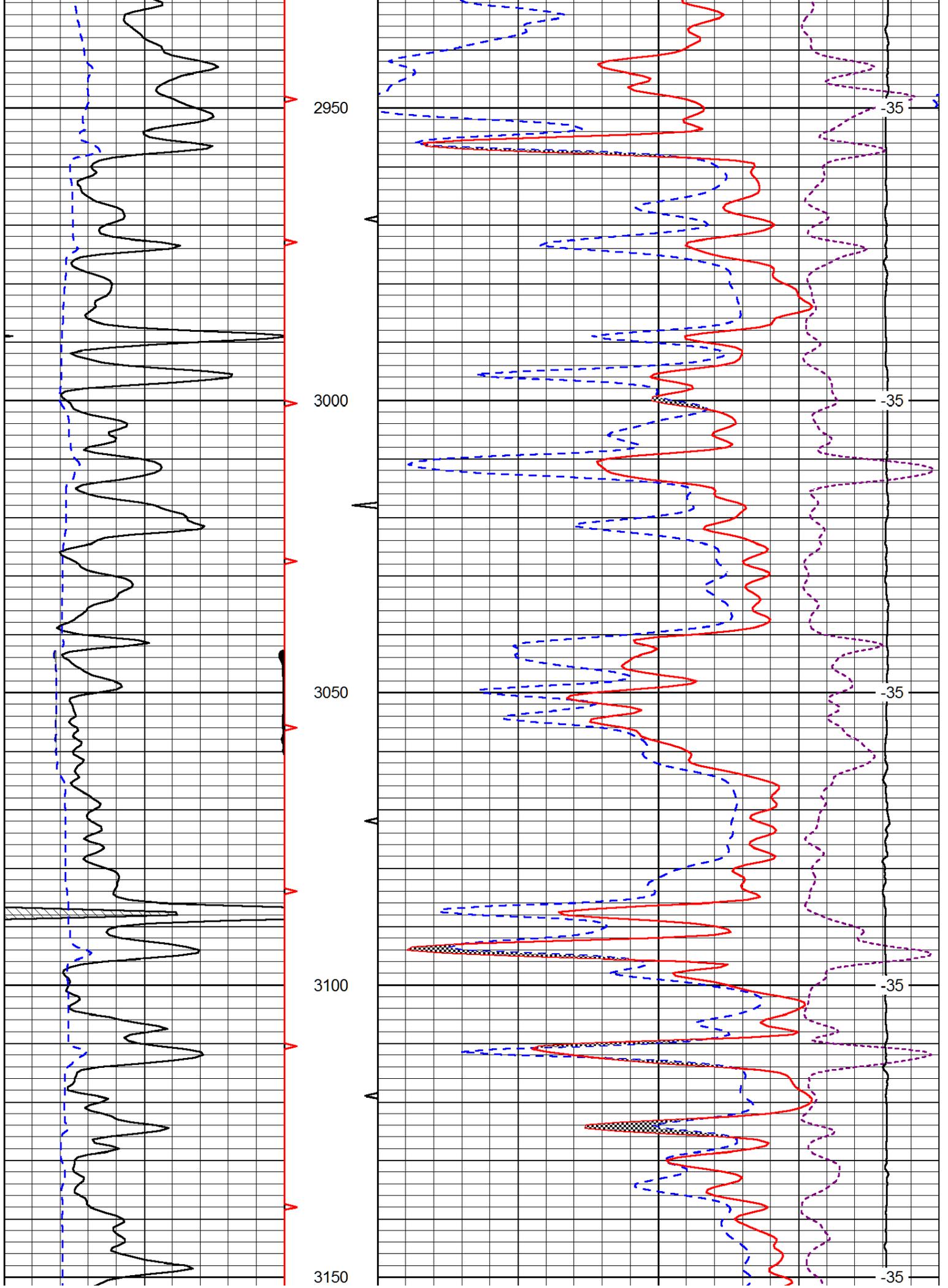


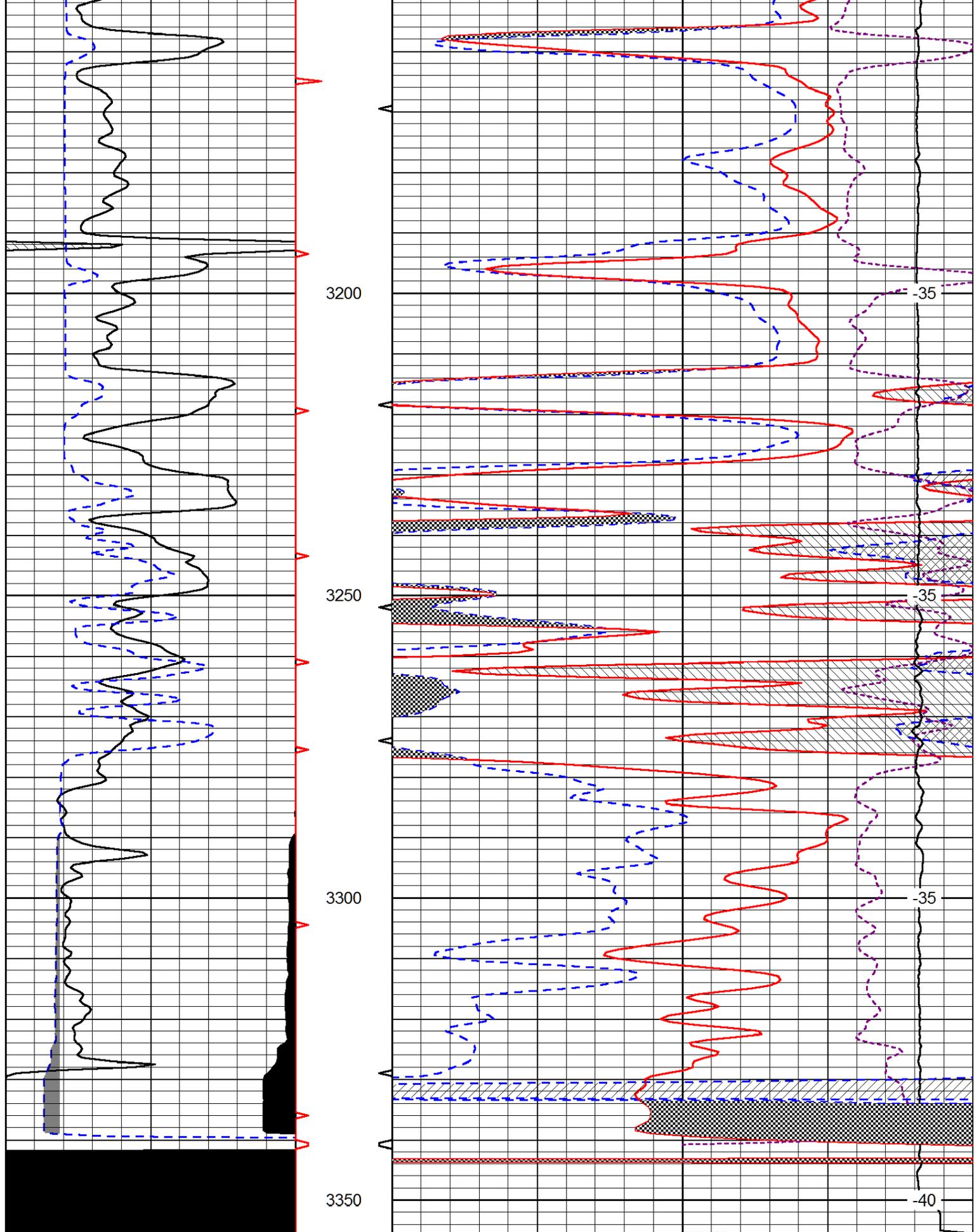
Database File: birddogoil_pioneer_schubert_4_23hd.db
 Dataset Pathname: DIL/bdstk
 Presentation Format: cndlspec
 Dataset Creation: Fri Dec 19 06:49:49 2014
 Charted by: Depth in Feet scaled 1:240











0	Gamma Ray	150
6	Caliper (GAPI)	16

30	CNLS	-10
30	Compensated Density (2.71 ma)	-10
10000	Line Tension	0



Dolomite Matrix(2.83)

Database File: birddogoil_pioneer_schubert_4_23hd.db
 Dataset Pathname: DIL/bdrep
 Presentation Format: cnddol
 Dataset Creation: Fri Dec 19 03:40:46 2014
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	30	cnpor	-10
6	Caliper (GAPI)	16	30	Compensated Density	-10
			15000	Line Tension	0
				-0.25 Correction 0.25	LSPD

