



Pioneer Energy Services

## Dual Compensated Porosity Log

API No.	15-185-23,773-00-00	
Company	L.D. Drilling, Inc.	
Well	Lorraine No. 1 - 35	
Field	Waddle South	
County	Stafford	State Kansas
Location	1880' FSL & 1130' FWL	
Sec: 35	Twp: 25 S	Rge: 15 W
Other Services	DIL	

Permanent Datum	Ground Level	Elevation 2017
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
		K.B. 2025
		D.F. 2017
		G.L. 2017

Date	11/9/2012
Run Number	One
Type Log	CNL / CDL
Depth Driller	4634
Depth Logger	4634
Bottom Logged Interval	4613
Top Logged Interval	3400
Type Fluid In Hole	Chemical
Salinity, PPM CL	4500
Density	9.2
Level	Full
Max. Rec. Temp. F	122
Operating Rig Time	3 Hours
Equipment -- Location	108   Hays
Recorded By	D. Martin
Witnessed By	Kim Shoemaker

Borehole Record		Casing Record				
Run No	Bit From	To	Size	Wgt. 23#	From	To
One	12.25	00	395	8.625	00	395
Two	7.875	395				

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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.

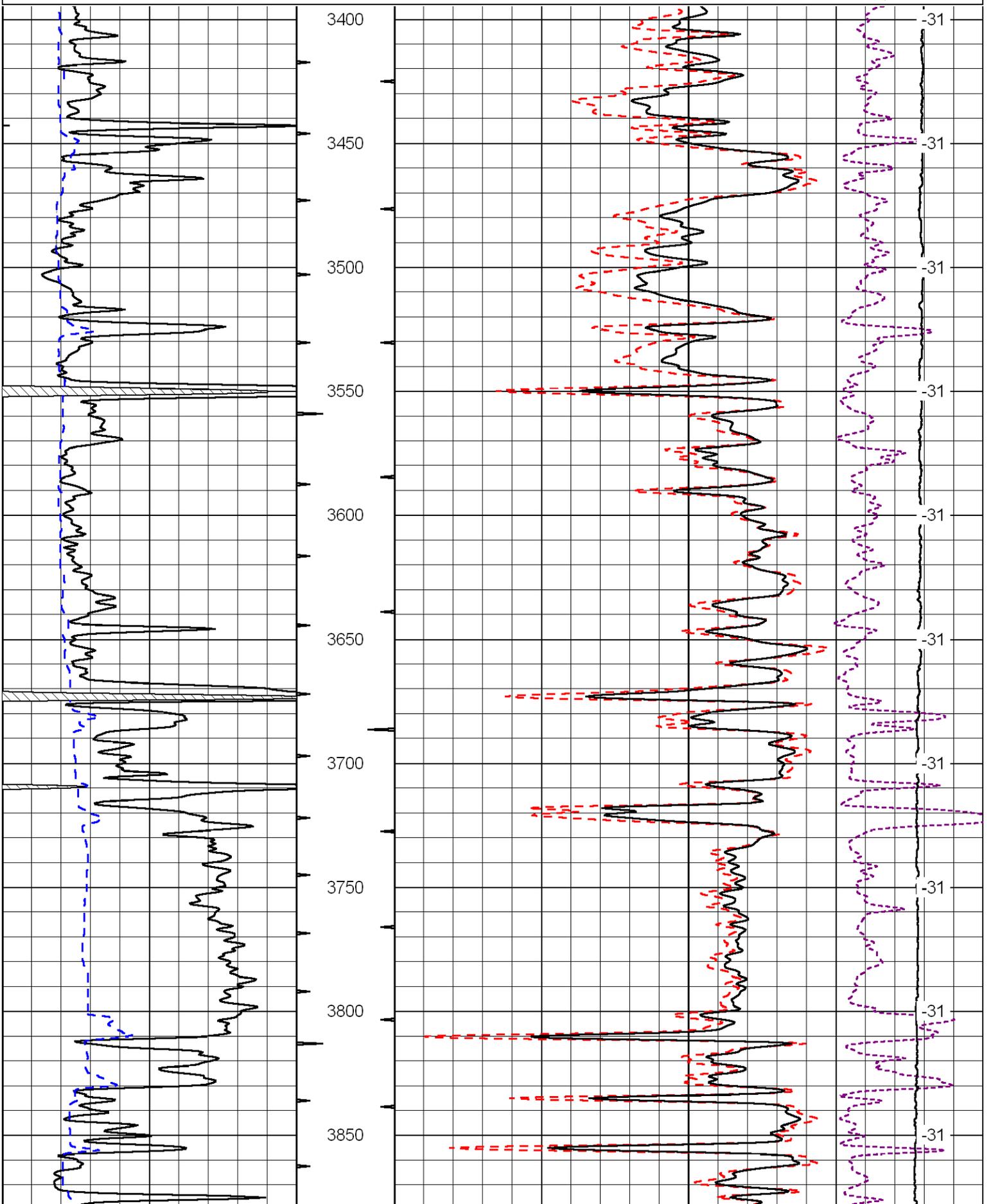
Comments

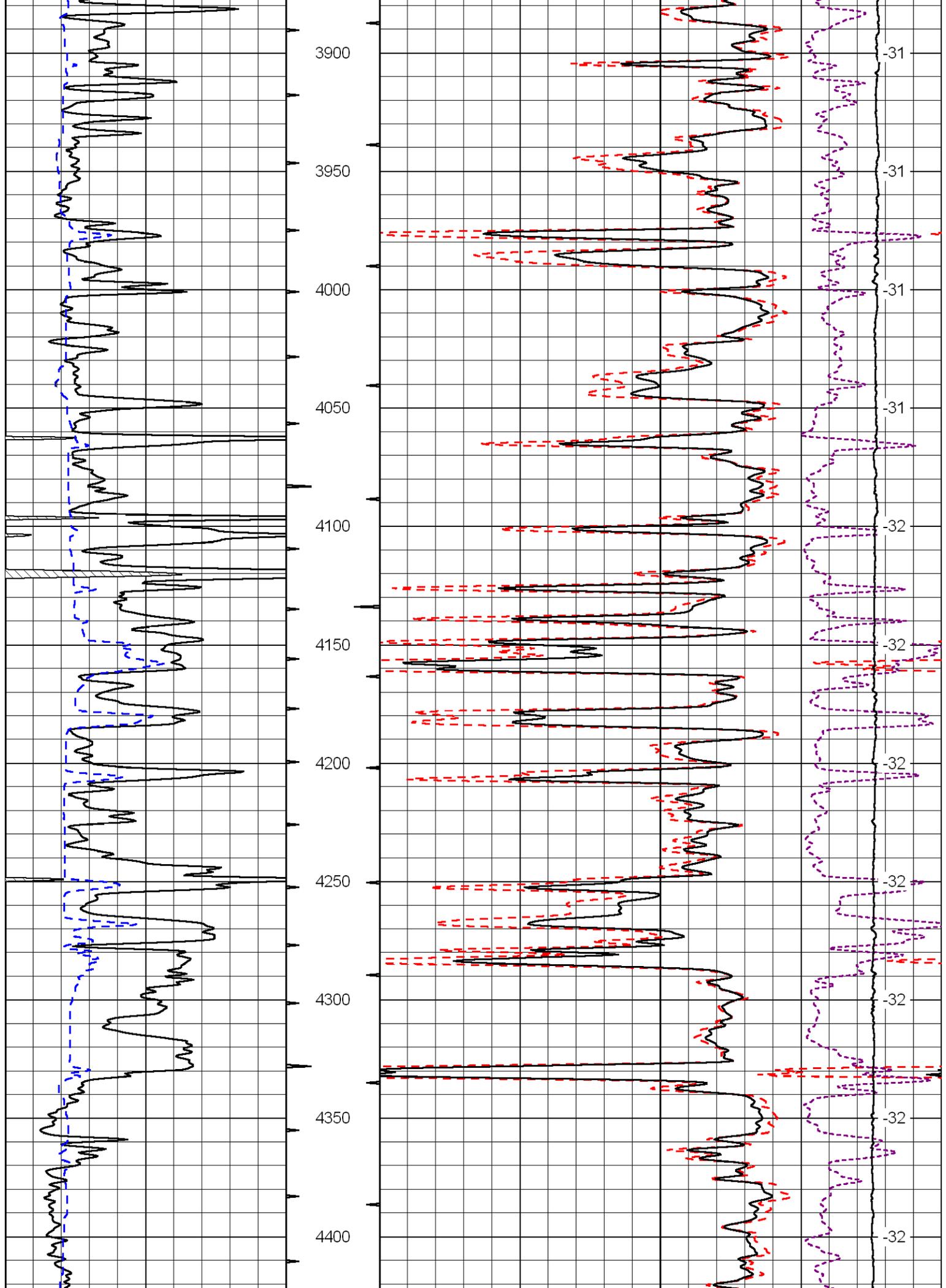
Thank you for using Log-Tech, Inc.  
 (785) 625-3858  
  
 Macksville, KS  
 9 S to T(Co. Line), 1 E,  
 1/4 N, E Into

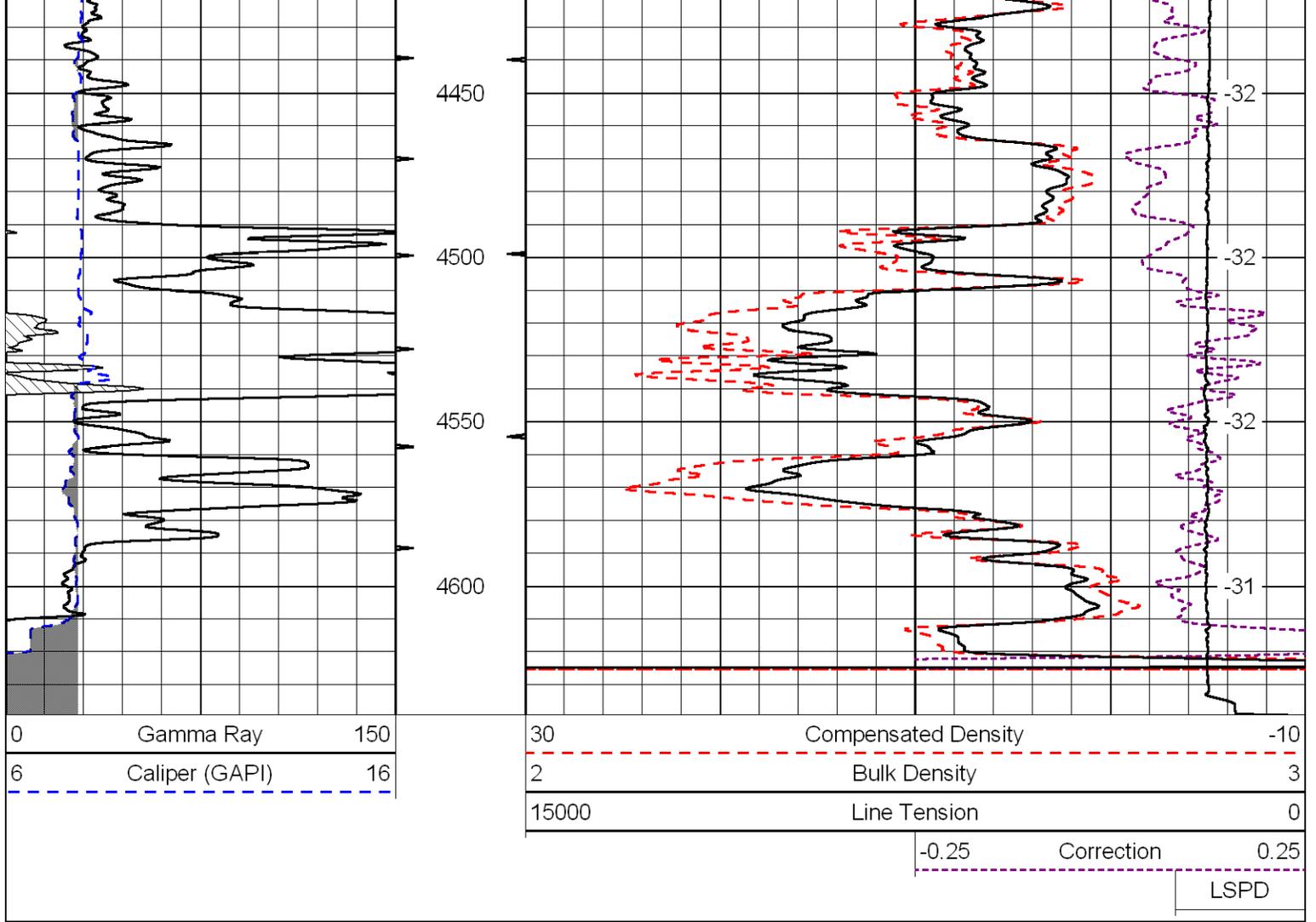
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 Dataset Creation: Fri Nov 09 09:34:14 2012  
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

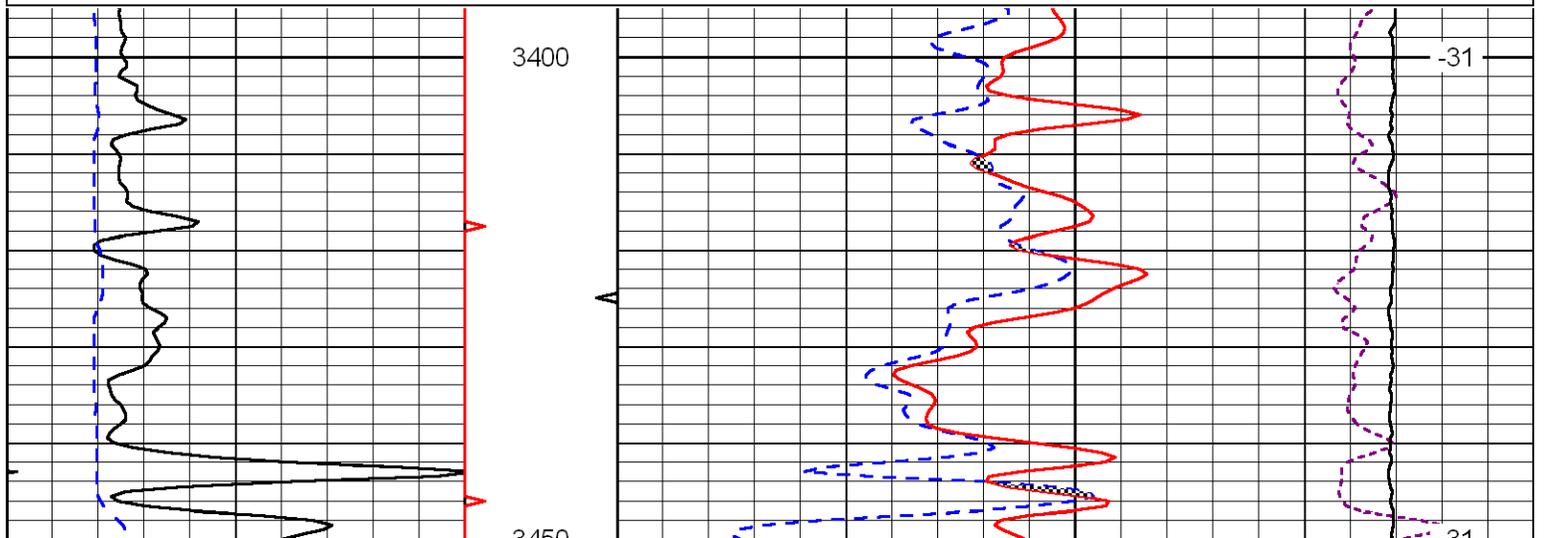
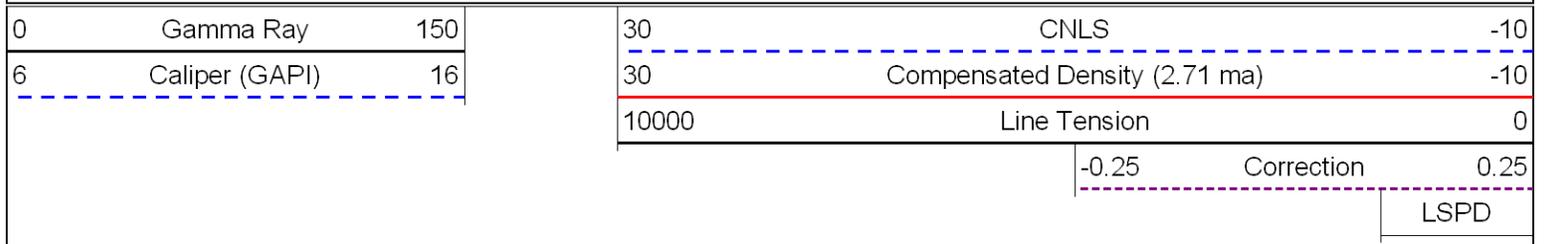
30	Compensated Density	-10	
2	Bulk Density	3	
15000	Line Tension	0	
	-0.25	Correction	0.25
			LSPD

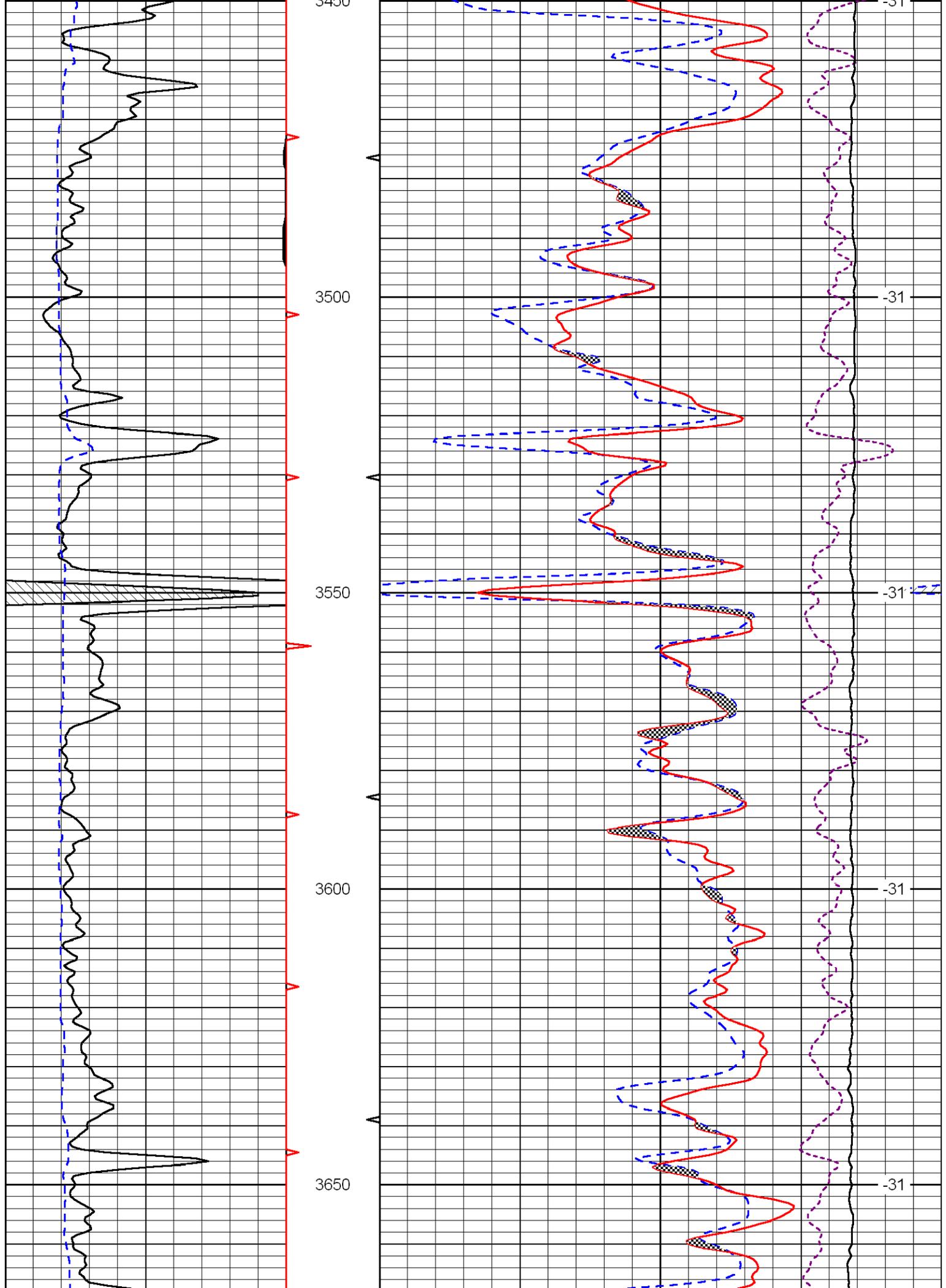


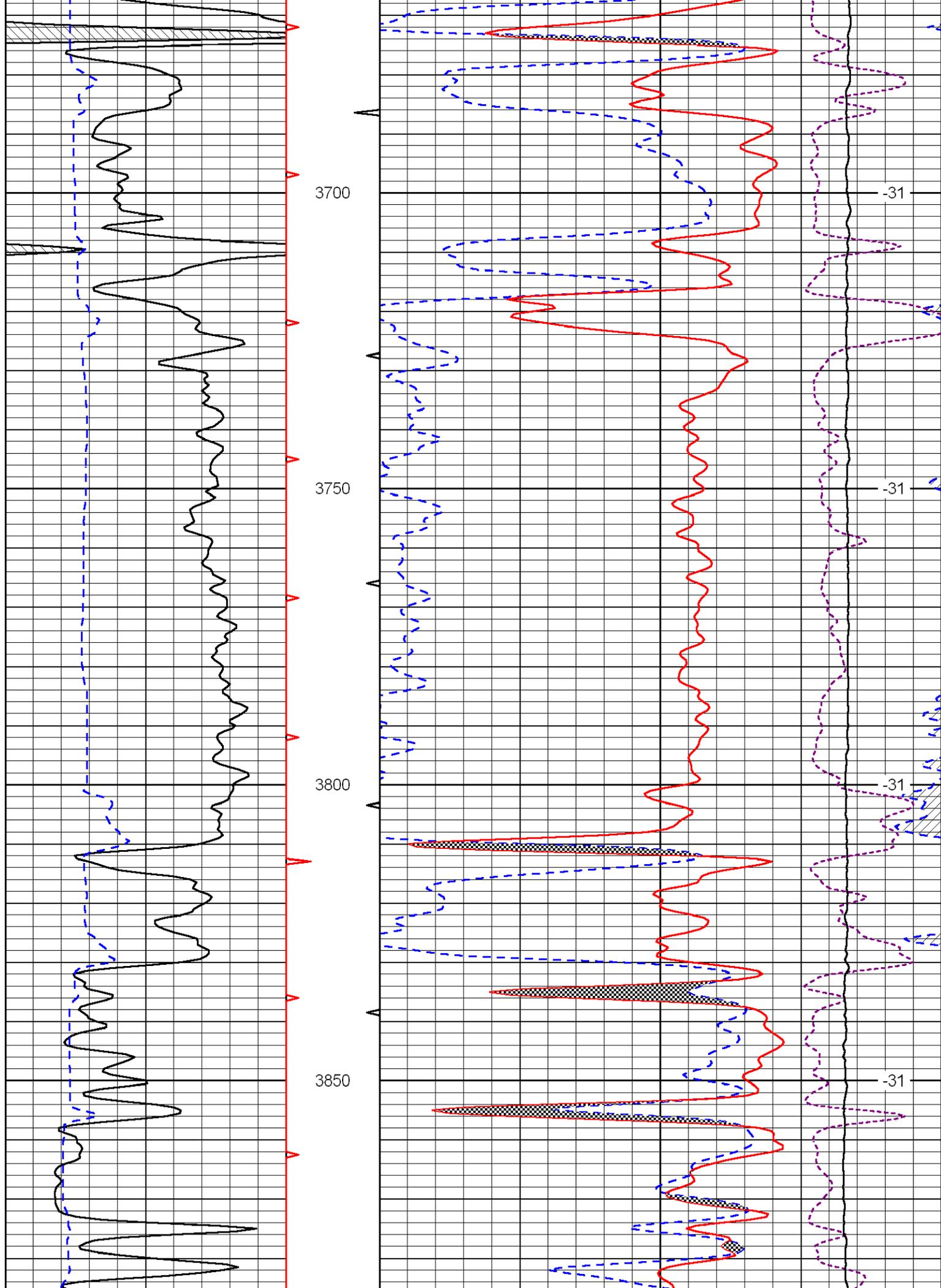


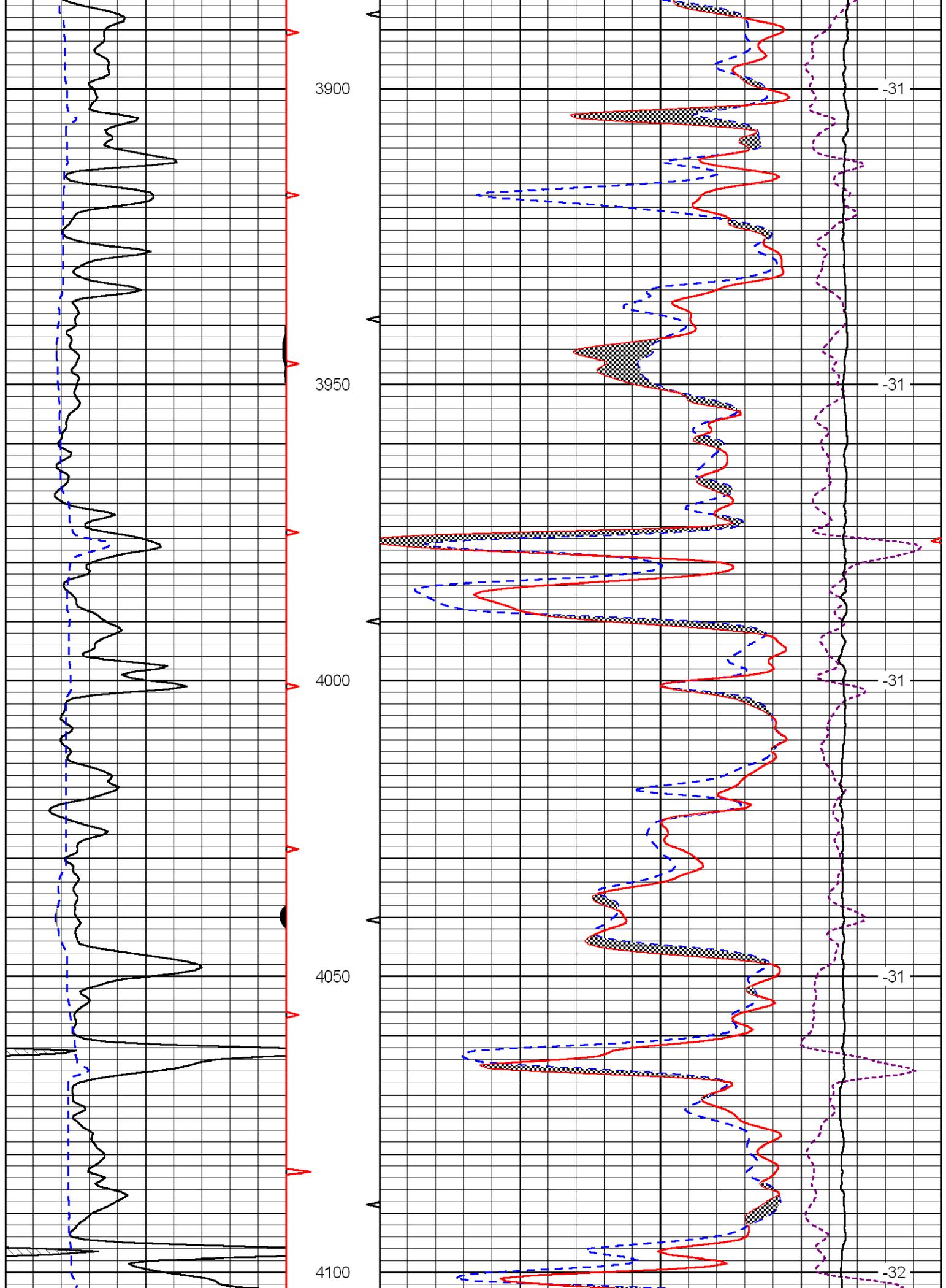


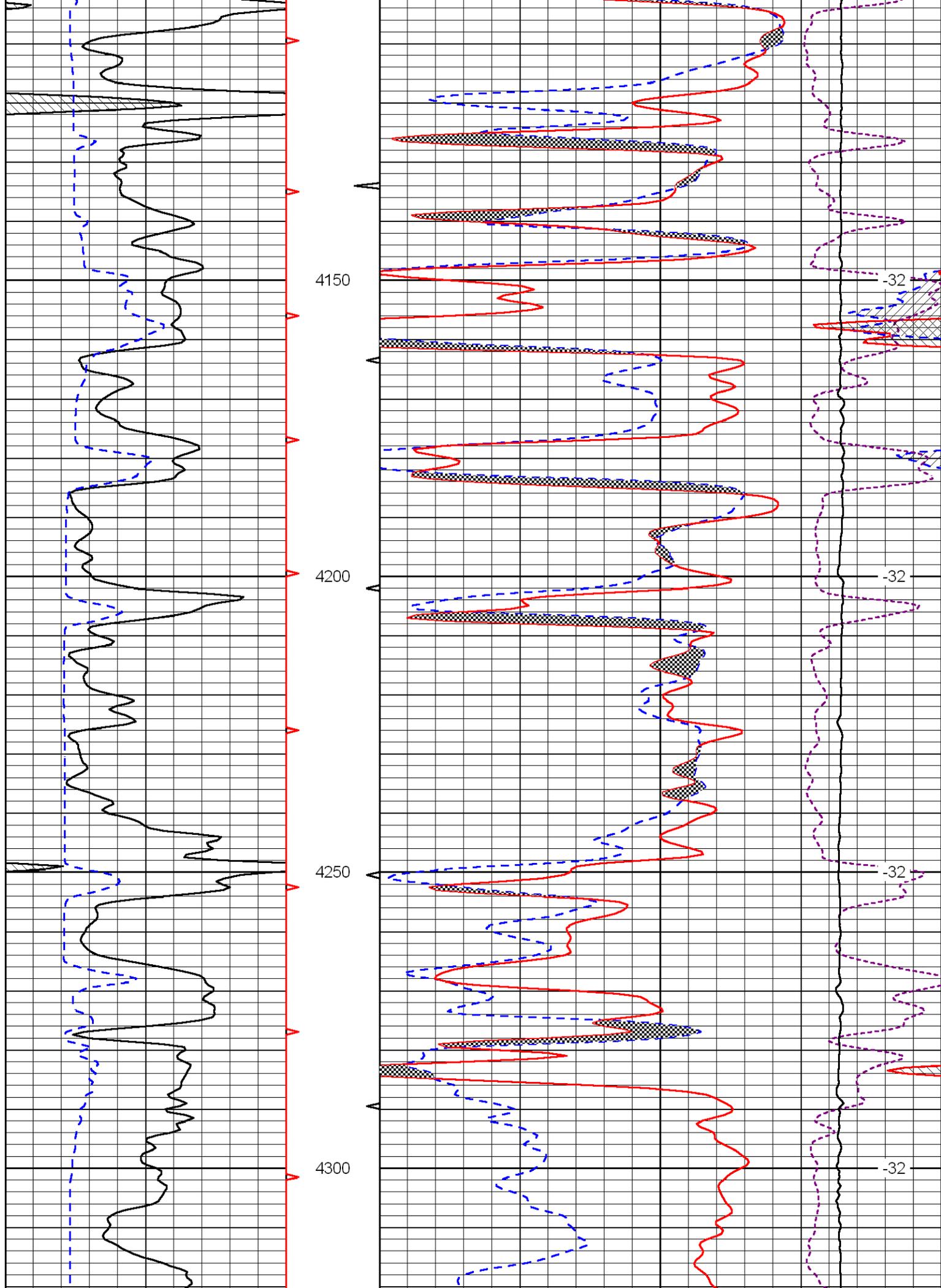
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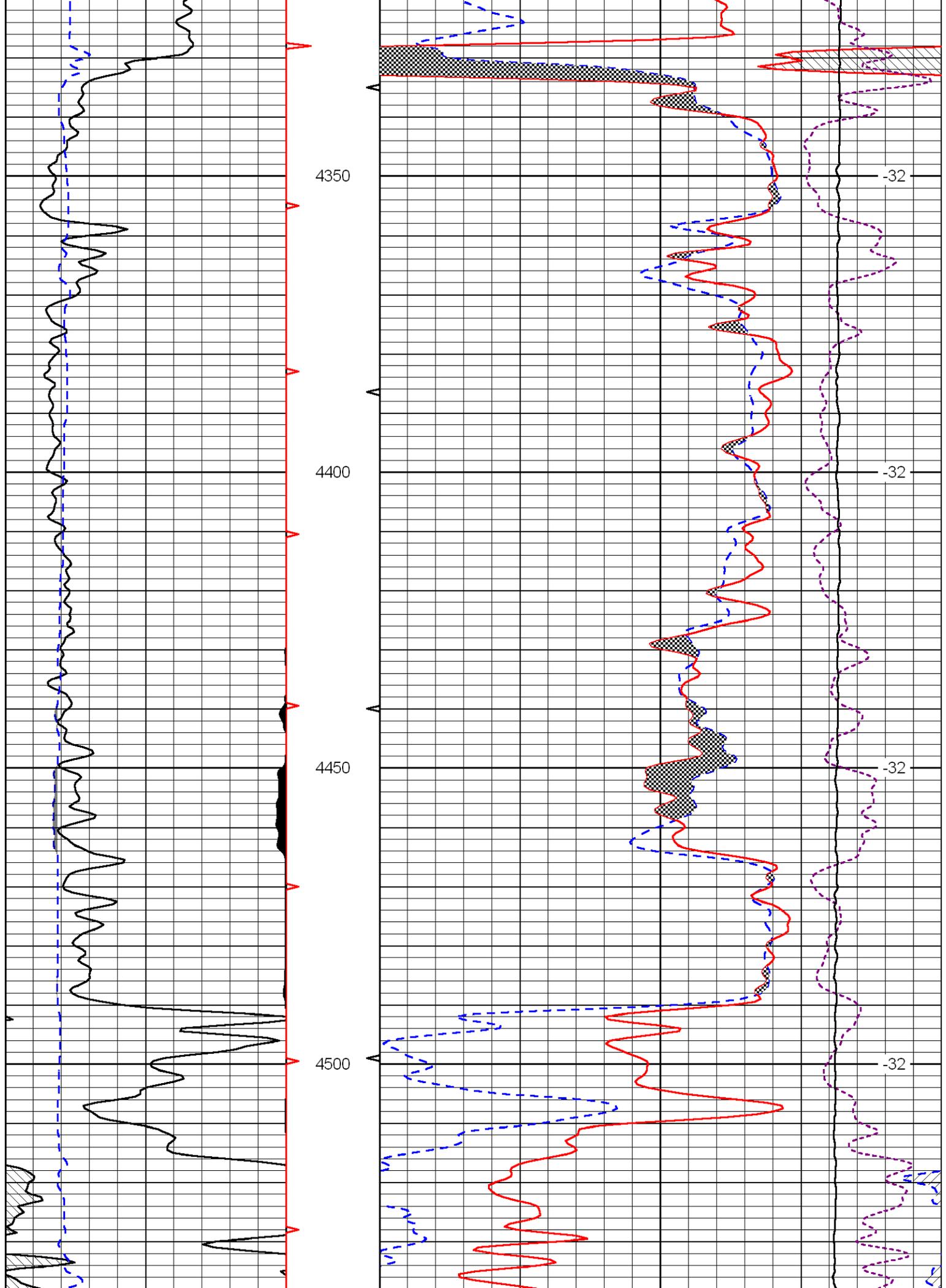


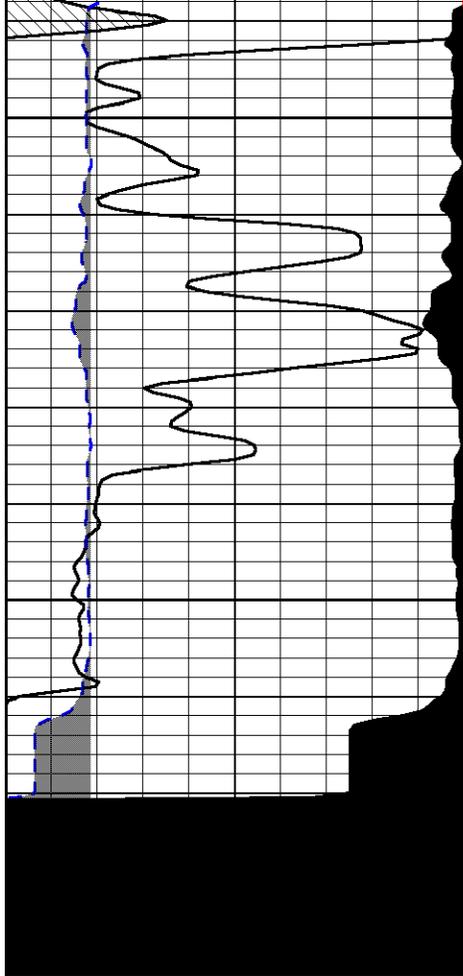






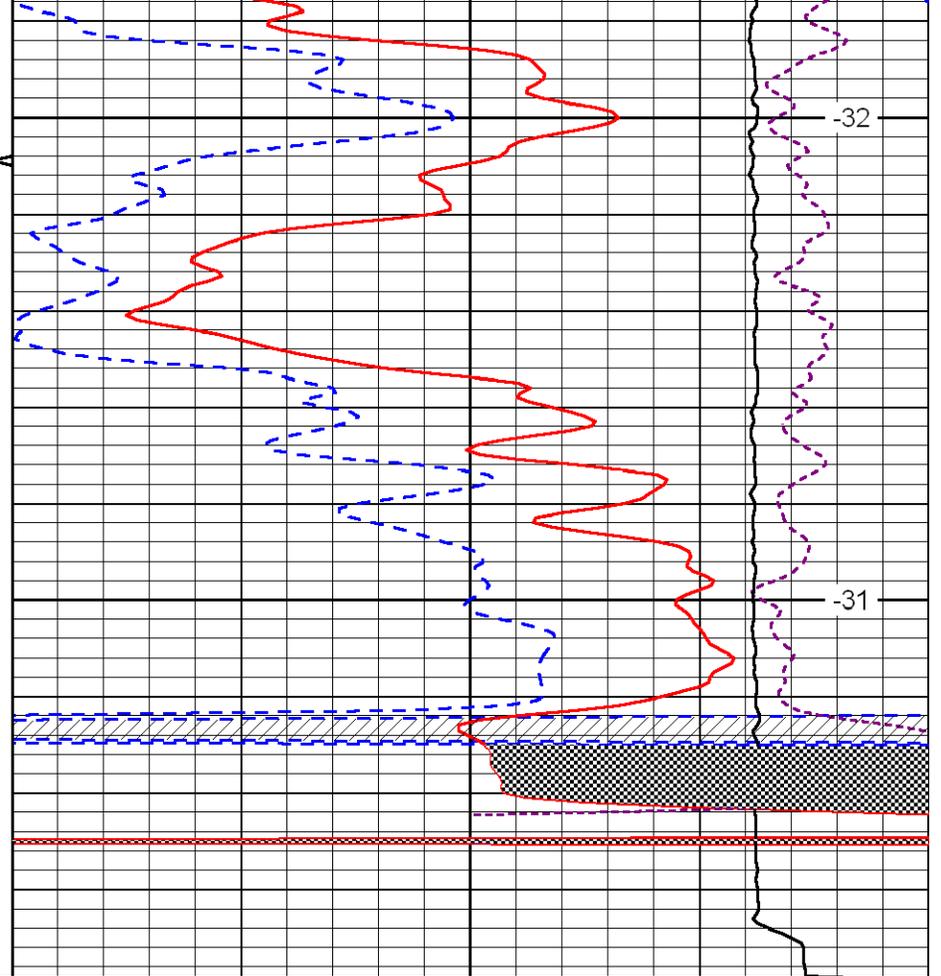






4550

4600



-32

-31

0	Gamma Ray	150
6	Caliper (GAPI)	16

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