



PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-153-20,904-00-00

Company **Murfin Drilling Company, Inc.**

Well **Hatch No. 1-30X**

Field **Wildcat**

County **Rawlins**

State **Kansas**

Location **2,000' FSL & 2,100' FEL**

Sec: **30** Twp: **1S** Rge: **36W**

Permanent Datum **Ground Level** Elevation **3324**

Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum

Other Services
DIL
MEL/BHCS
Elevation
K.B. 3329
D.F.
G.L. 3324

Date **8/6/2012**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **4600**

Depth Logger **4600**

Bottom Logged Interval **4579**

Top Logged Interval **1100**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **800**

Density **9.3**

Level **Full**

Max. Rec. Temp. F **122**

Operating Rig Time **5 Hours**

Equipment -- Location **108 Hays**

Recorded By **J. Long**

Witnessed By **Rocky Milford**

Borehole Record

Casing Record

Run No	Bit	From	To	Size	Wgt.	From	To
One	17.500	00	251	13.375	48#	00	251
Two	8.750	251	2045				
Three	7.875	2045	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

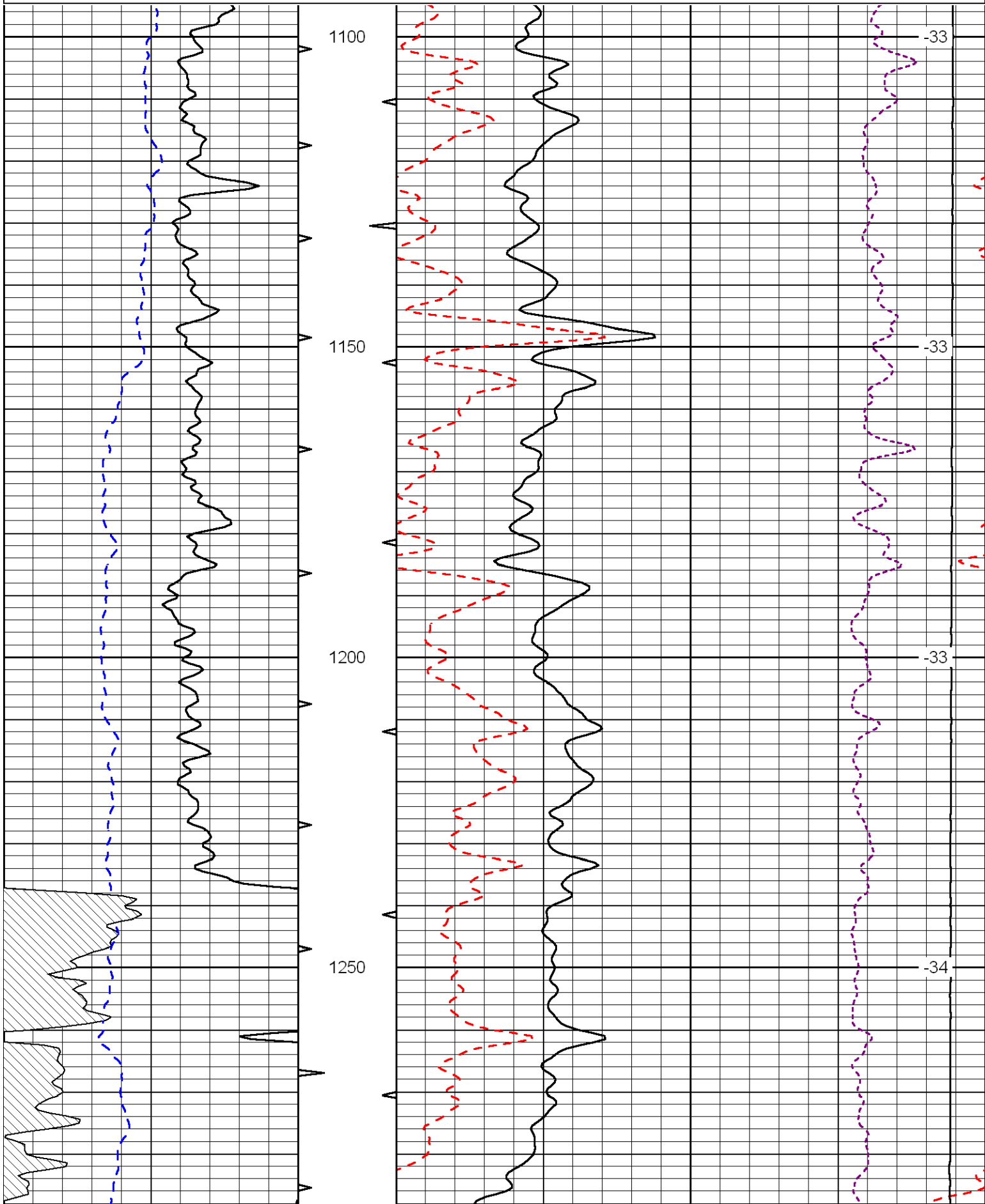
Thank you for using Log-Tech, Inc.
(785) 625-3858

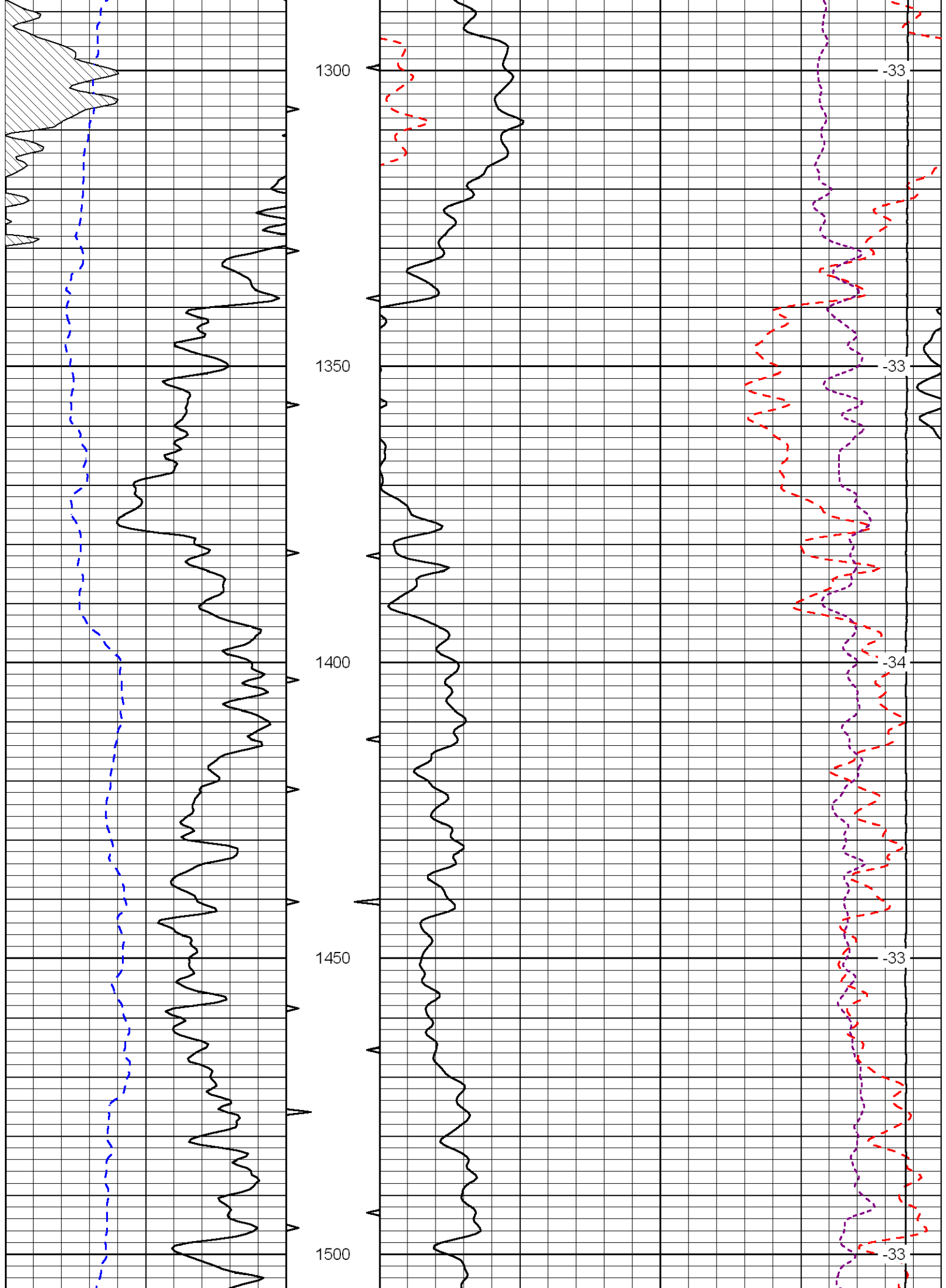
McDonald, 2 West to County Line Road (Road 1), 11 North to T (Z Road), 1/2 East, North Into

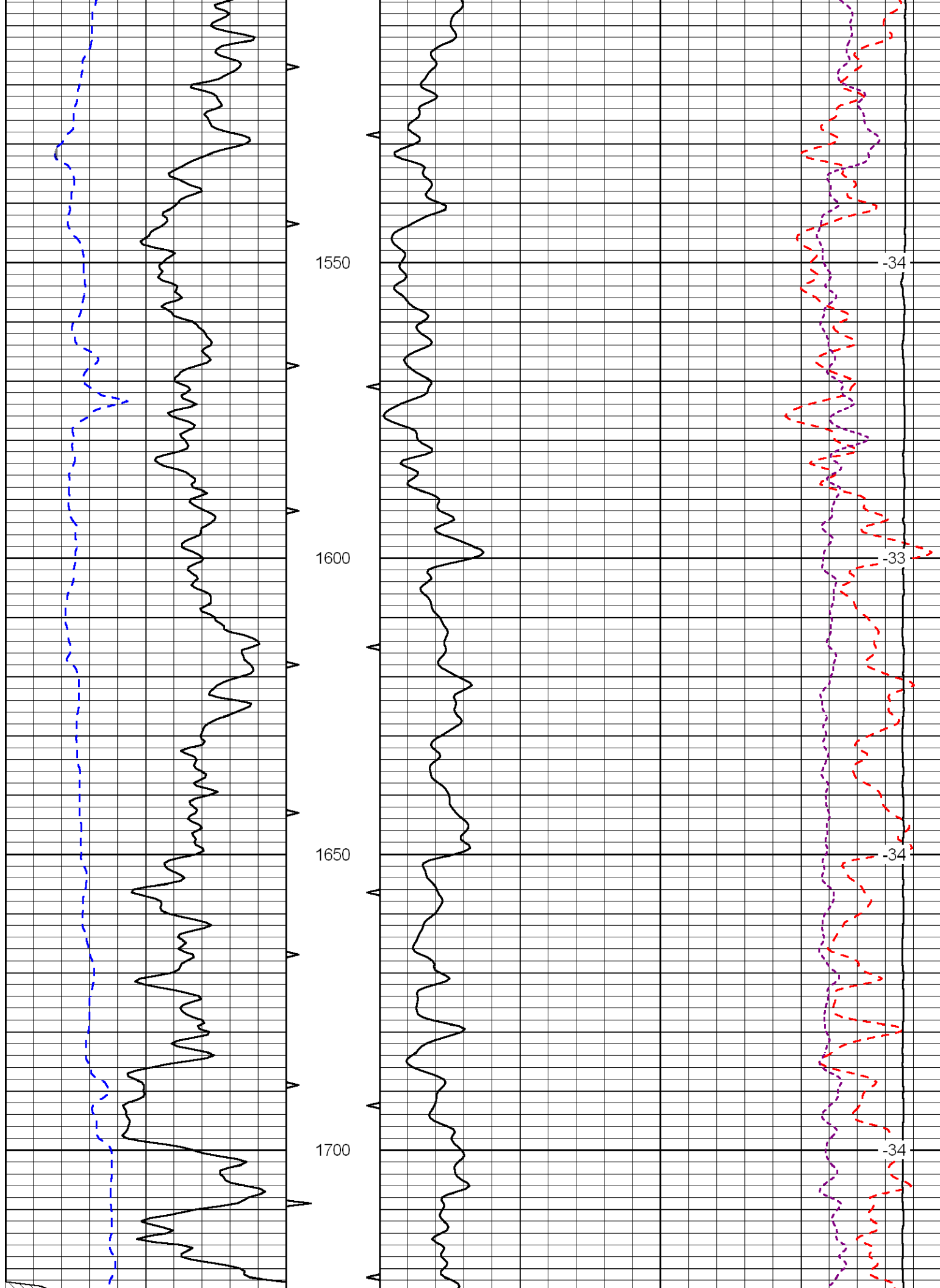
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Dataset Pathname: dil/murfstck
Presentation Format: cdl
Dataset Creation: Mon Aug 06 10:24:03 2012
Charted by: Depth in Feet scaled 1:240

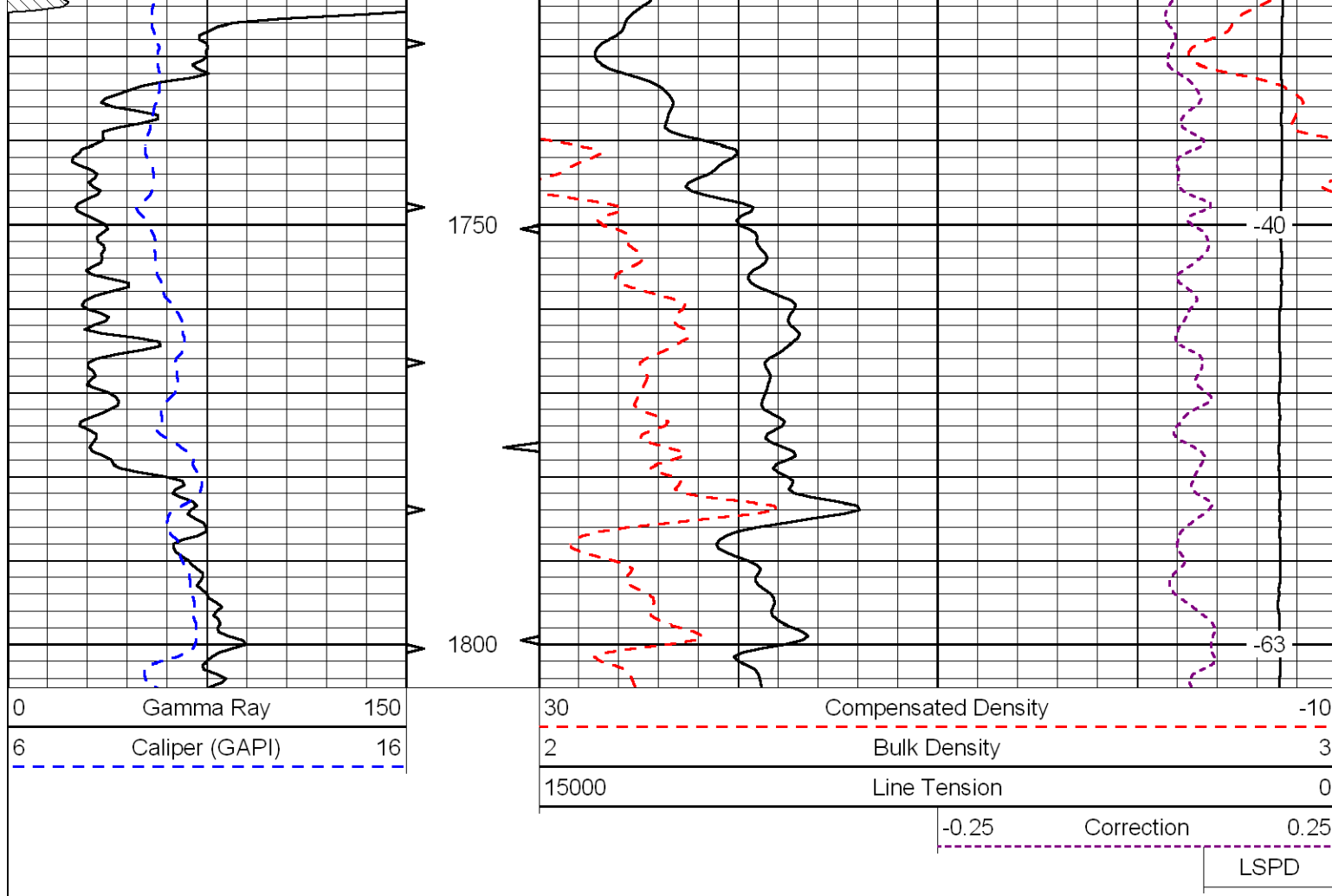
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6	Caliper (GAPI)	16

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

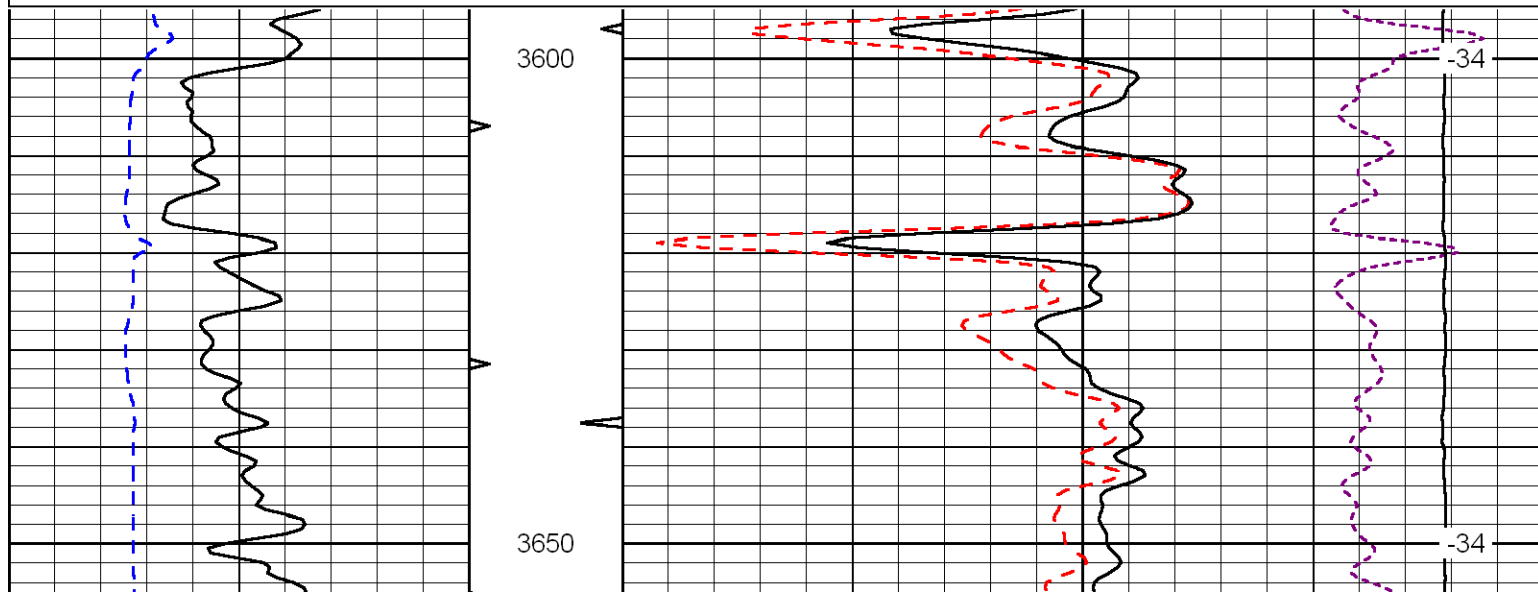
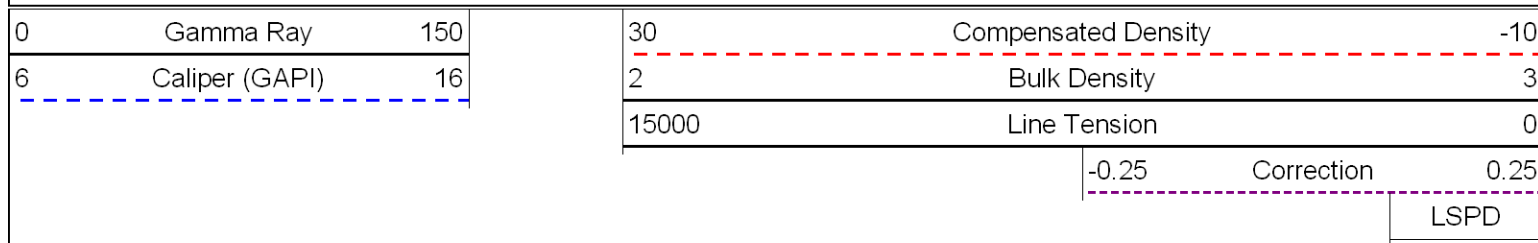


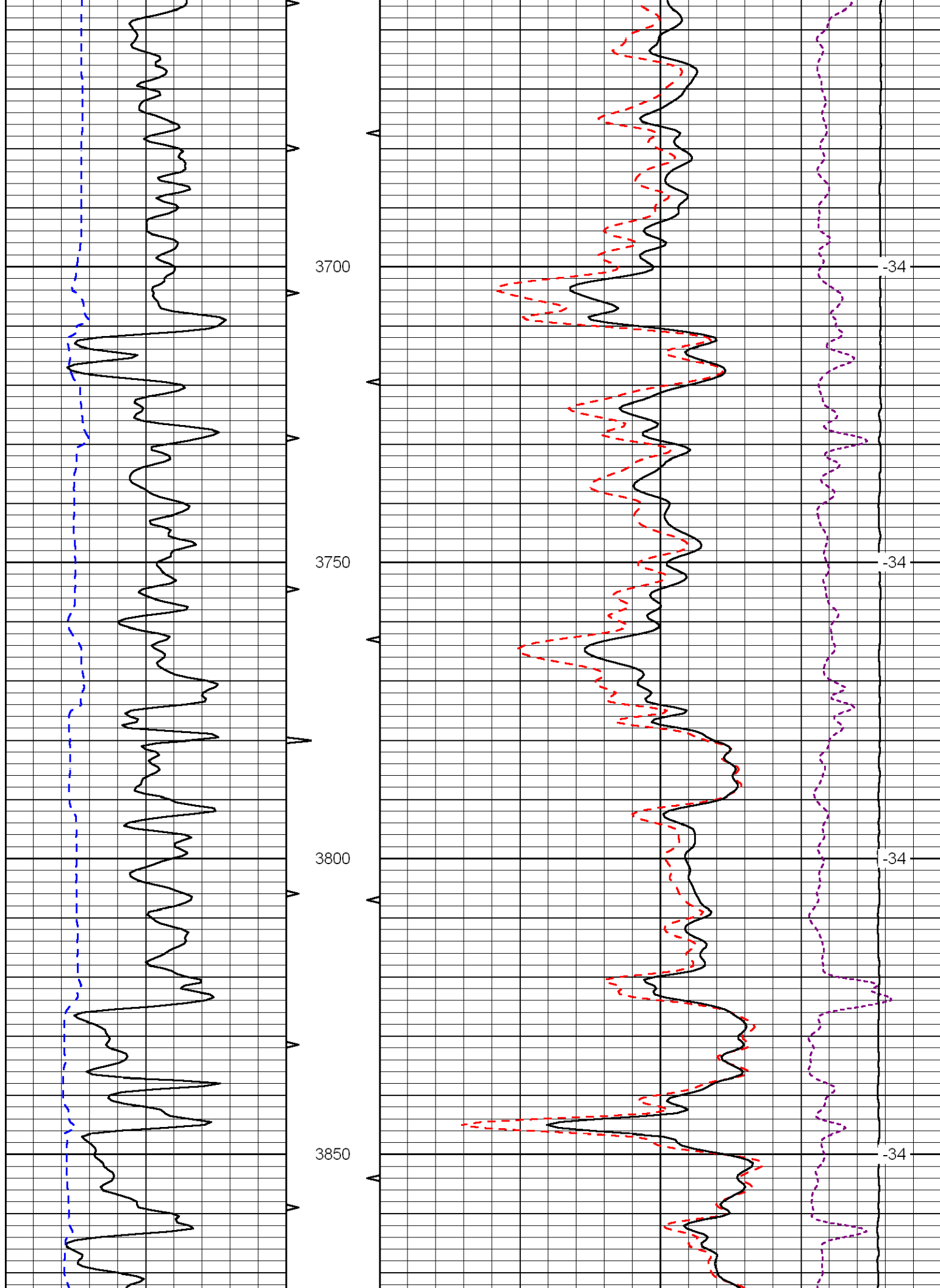


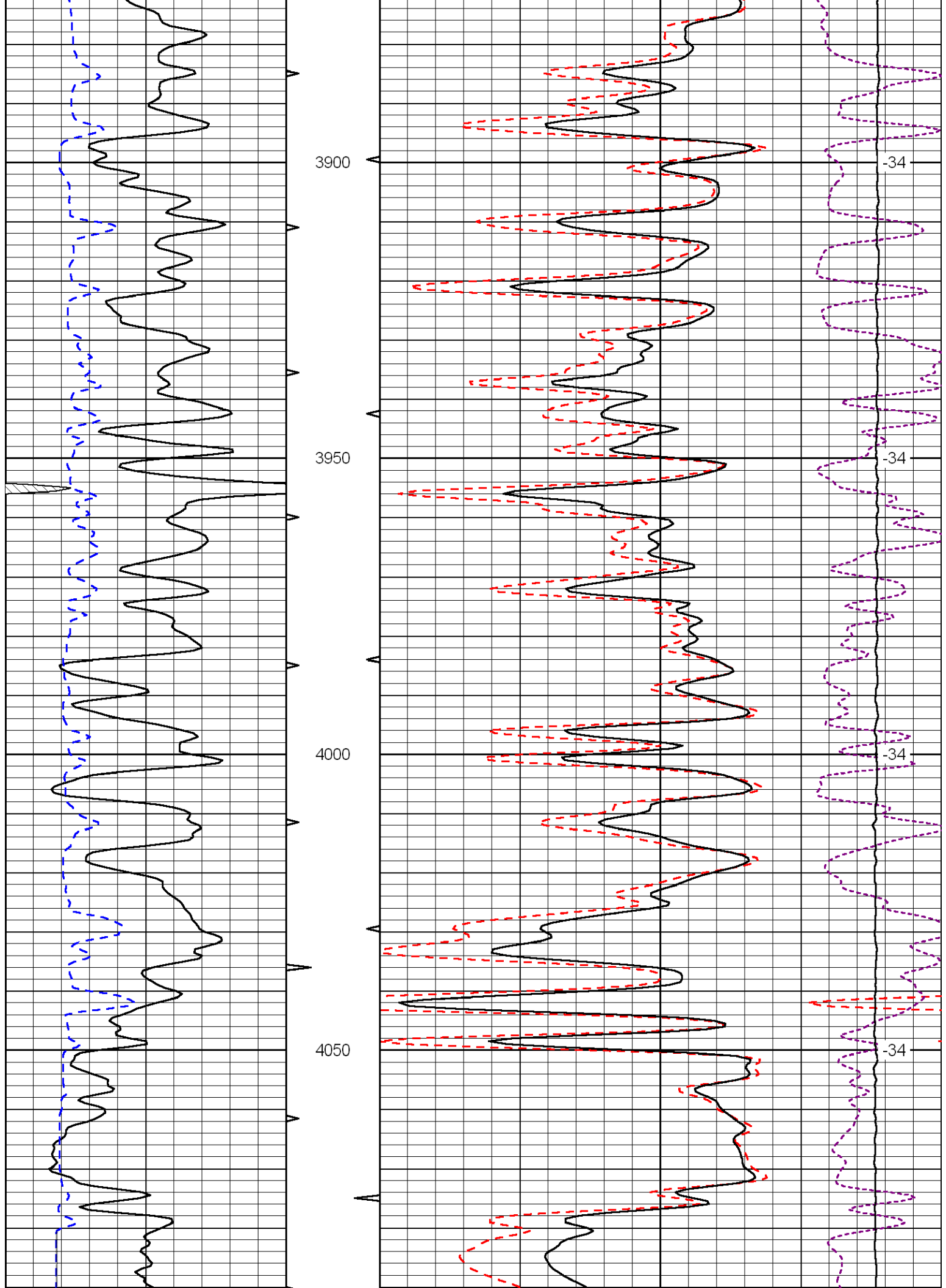


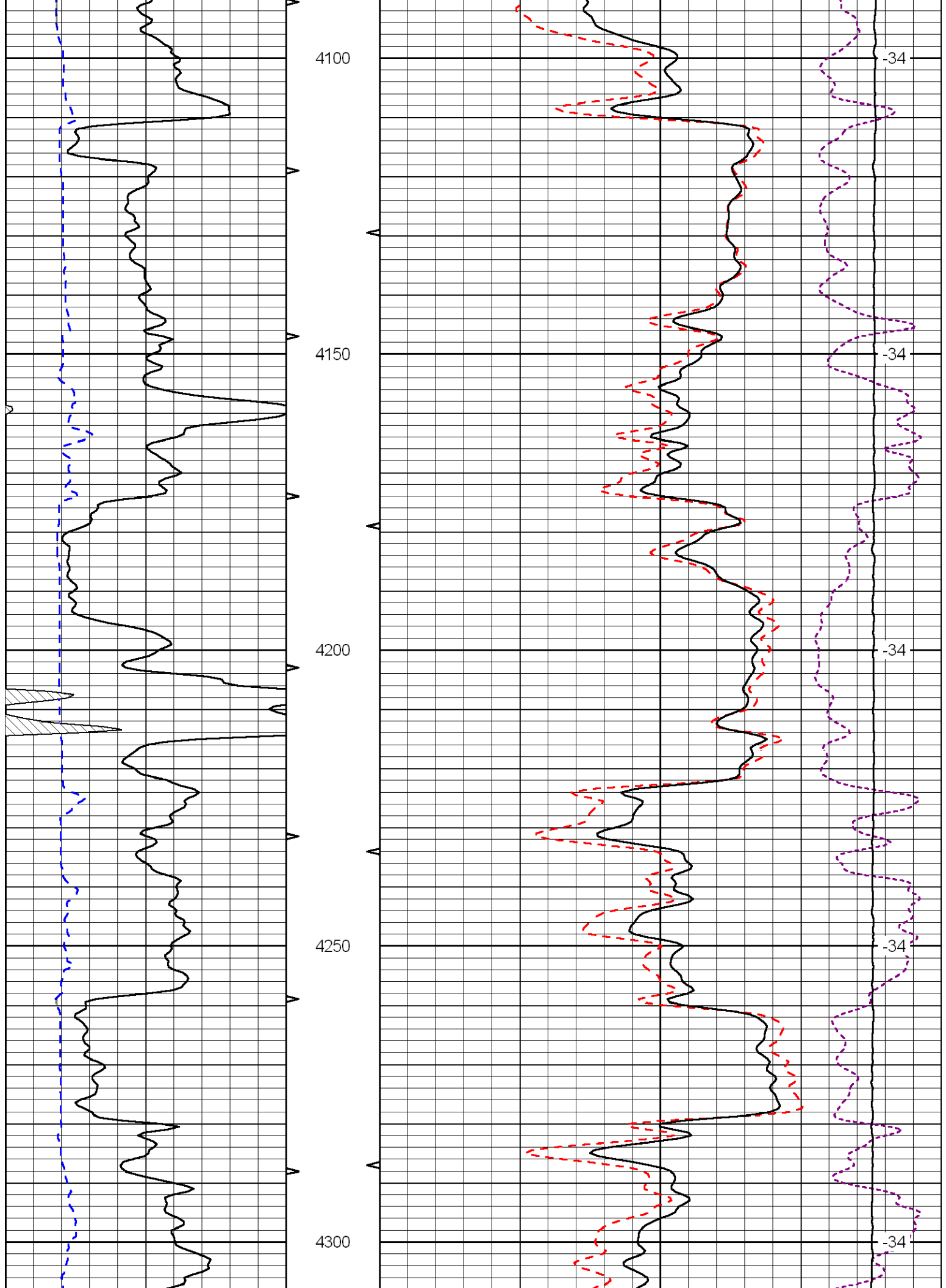


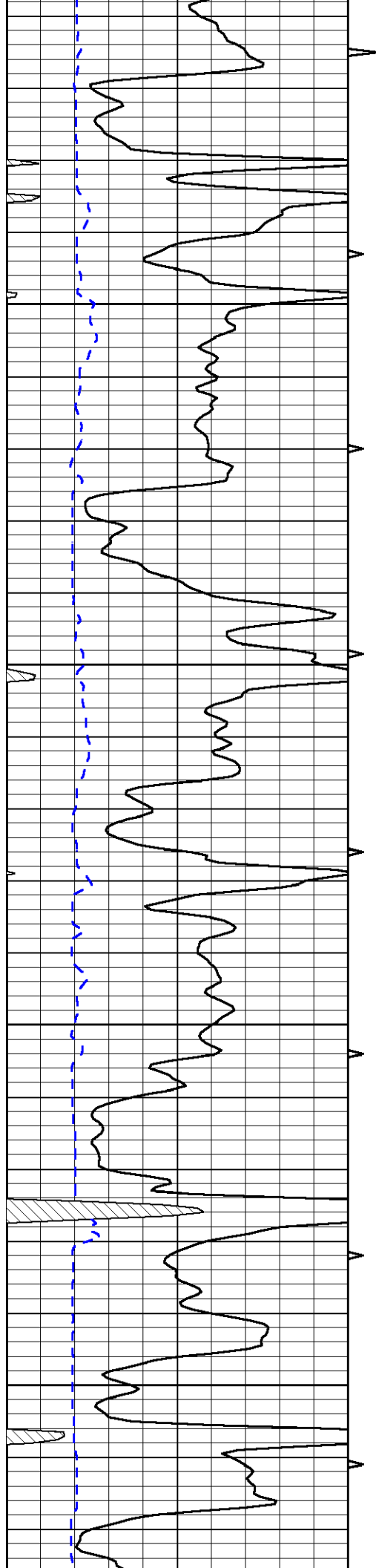
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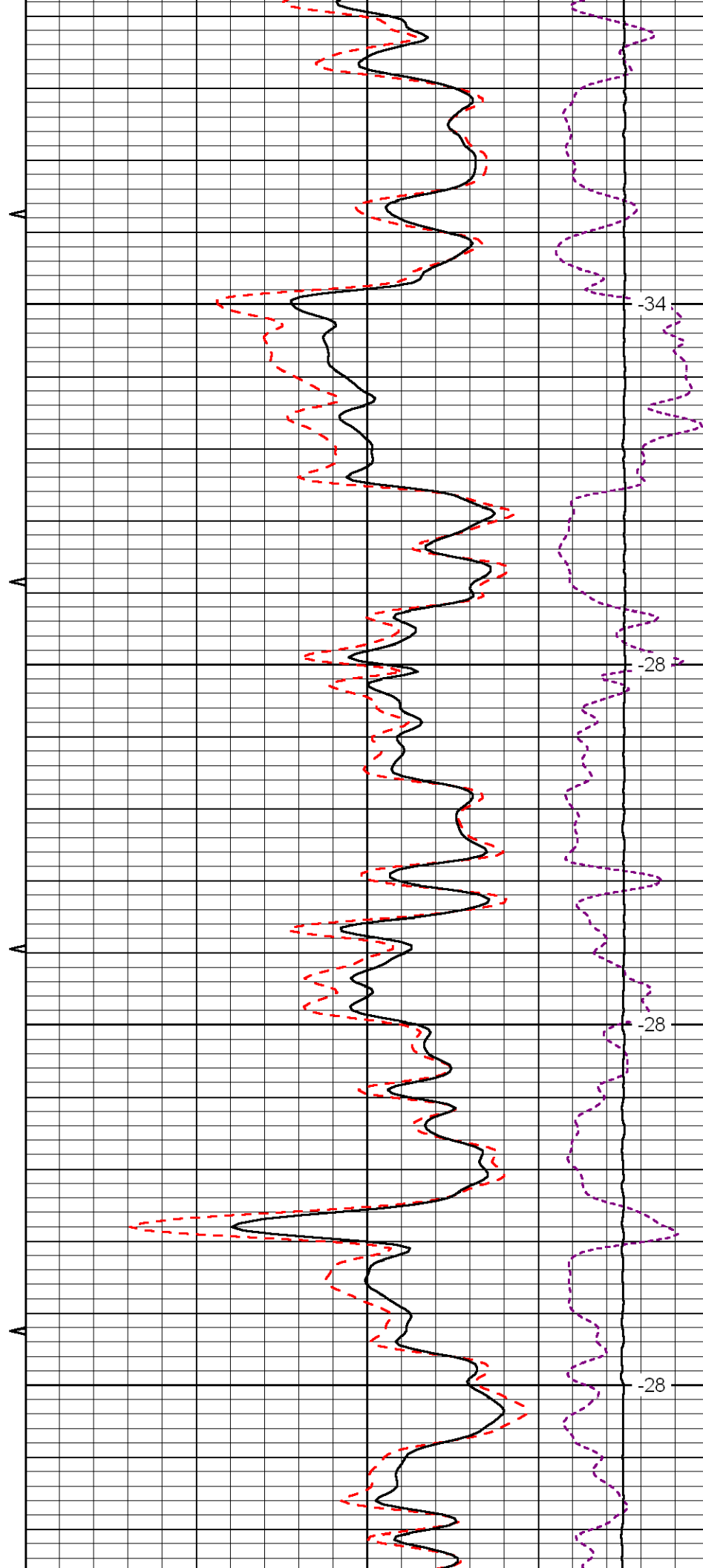


4350

4400

4450

4500

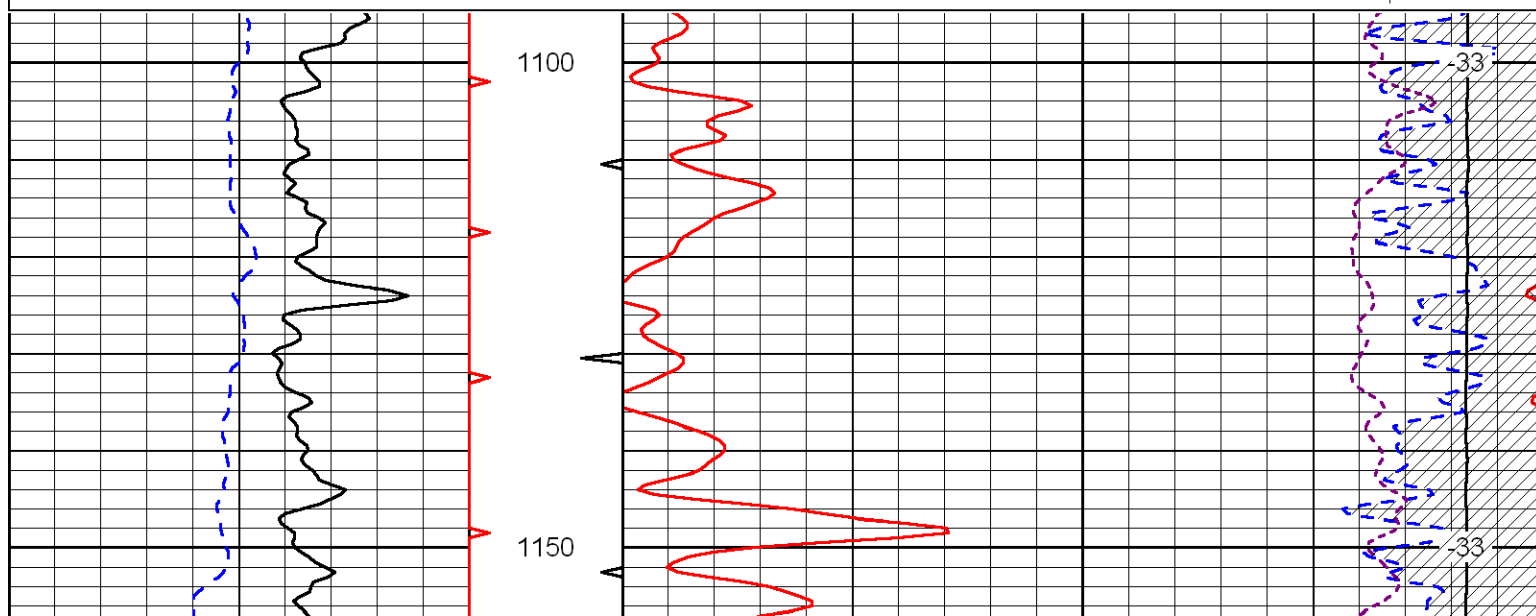
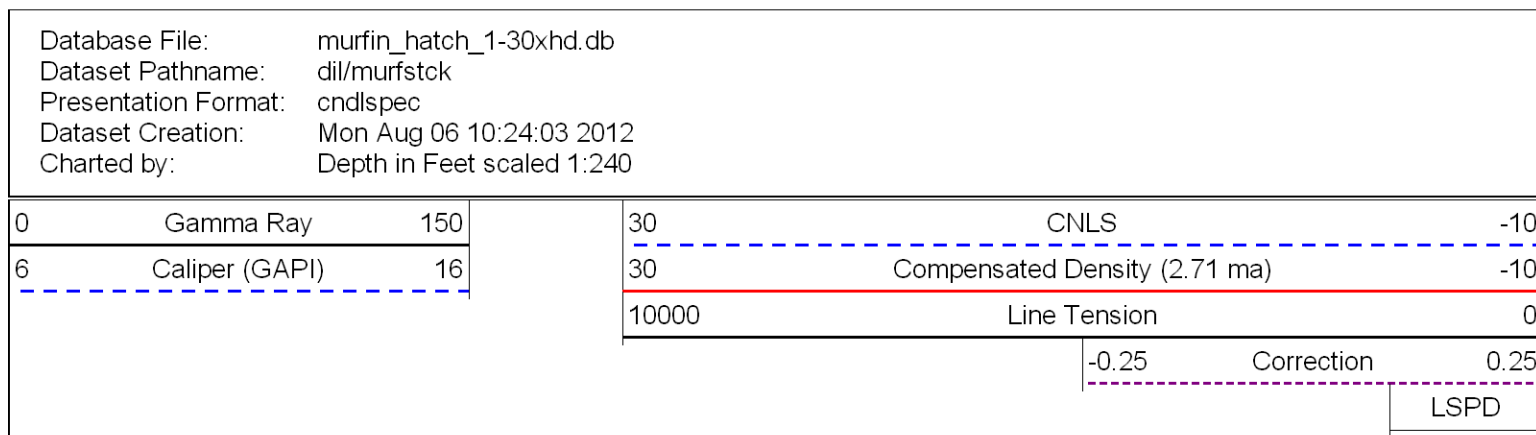
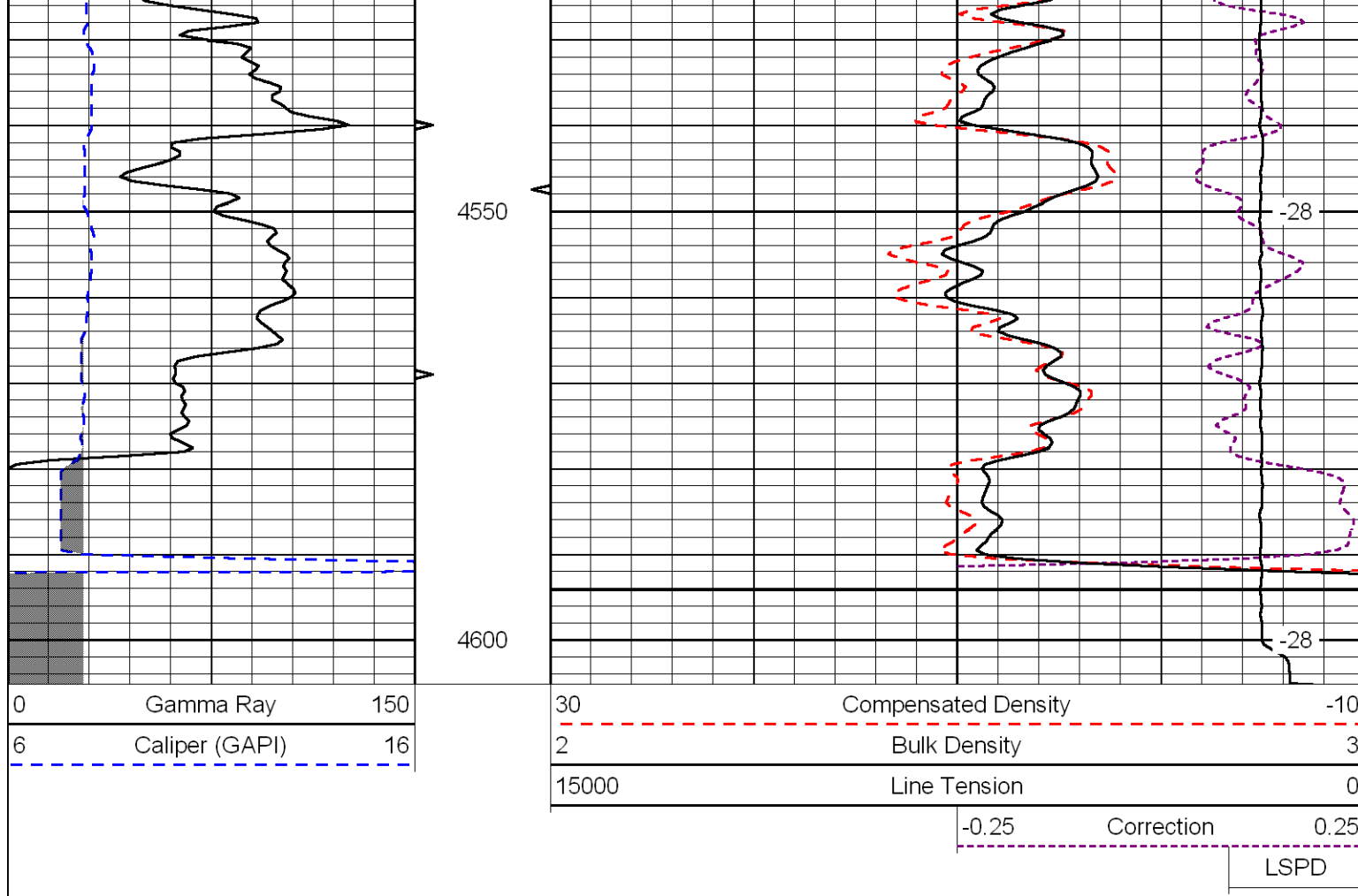


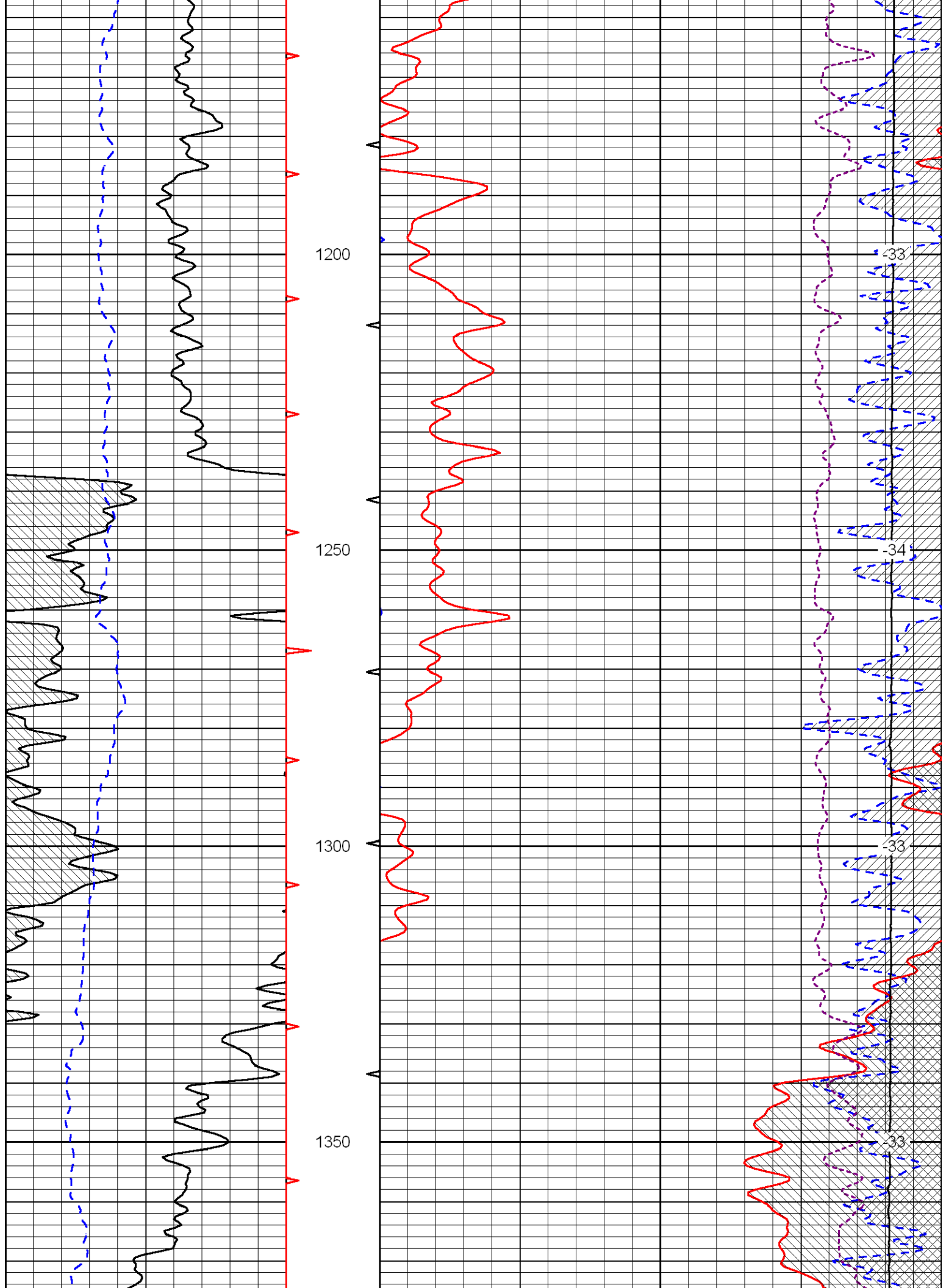
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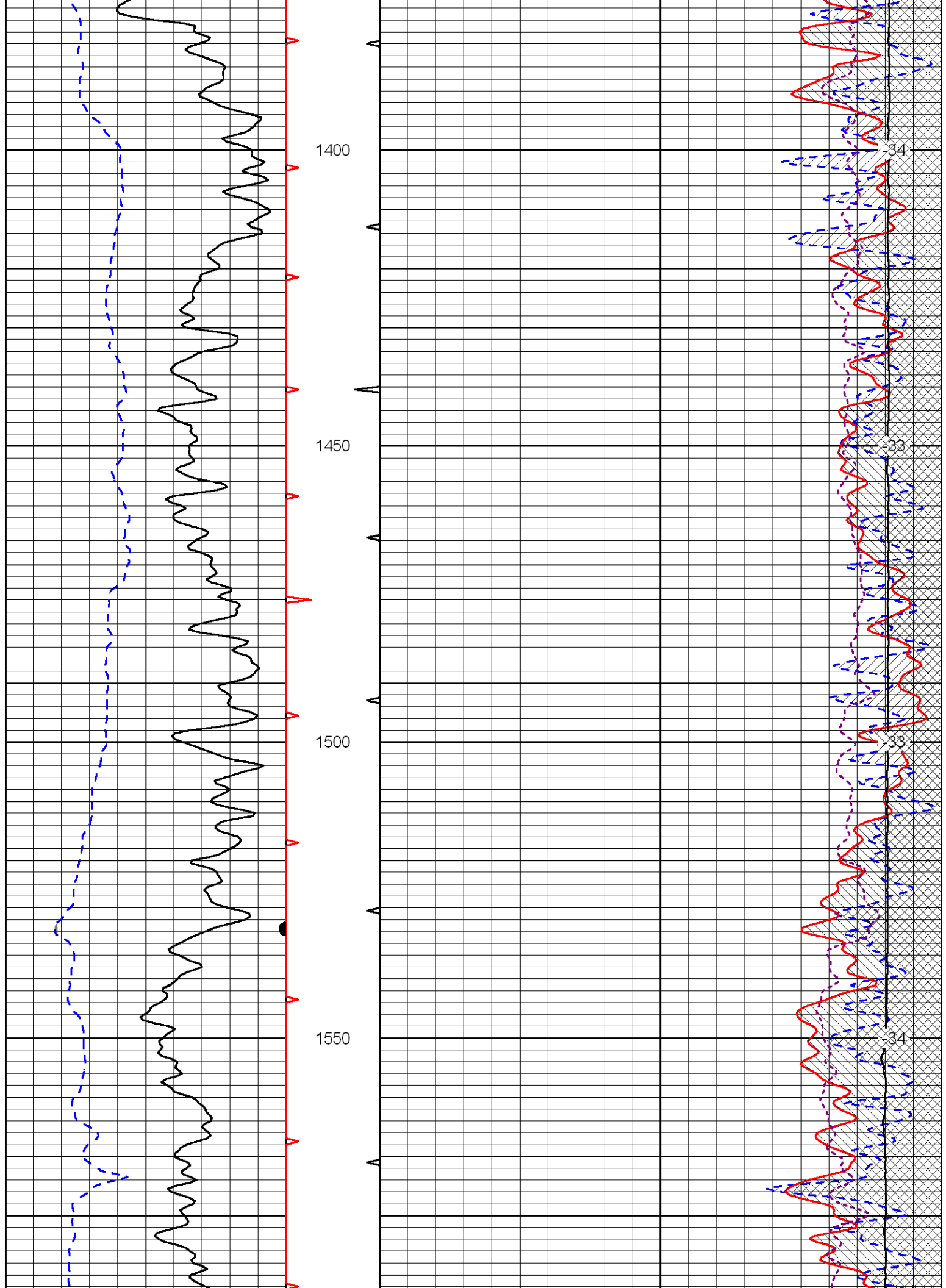
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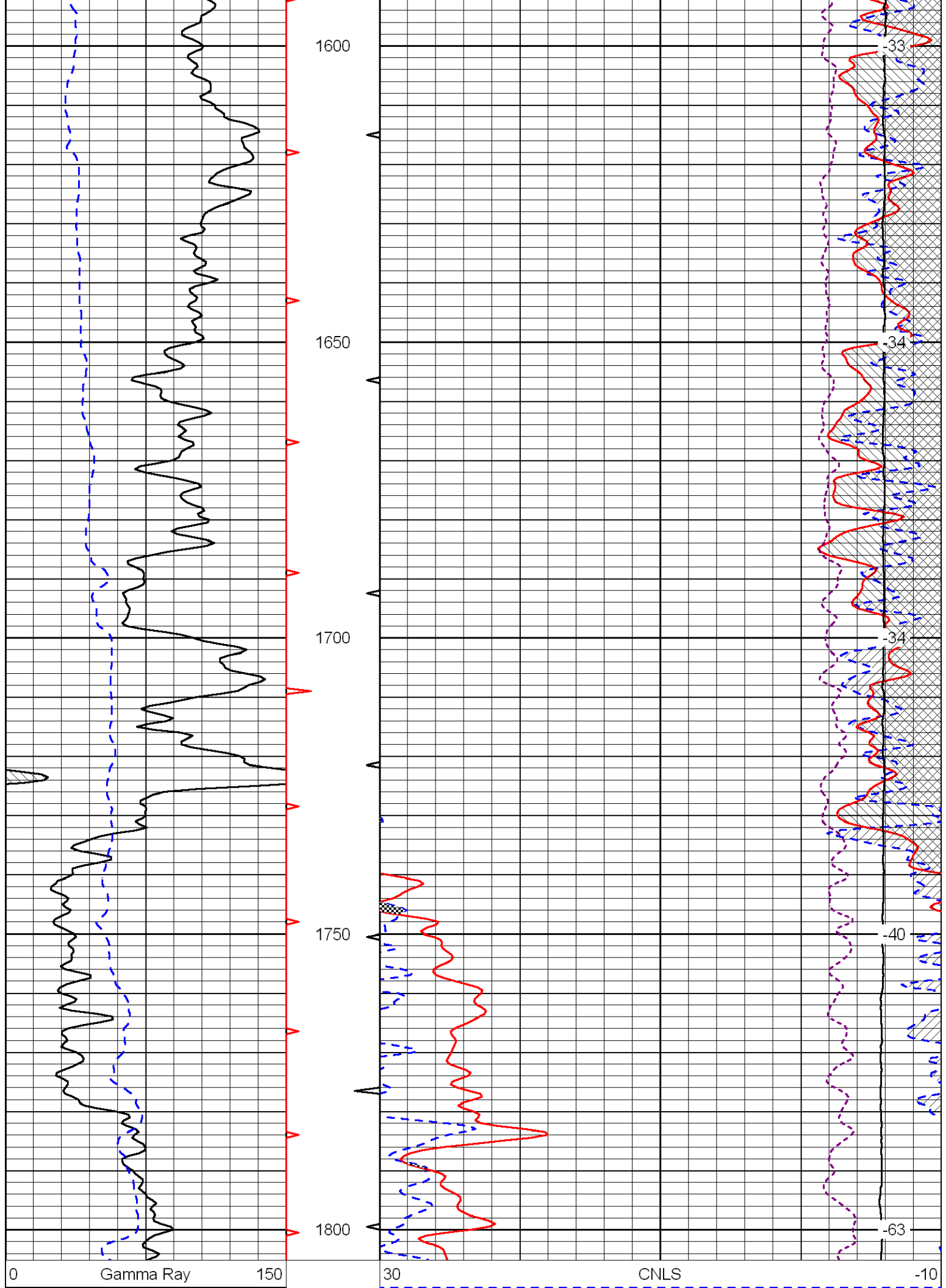
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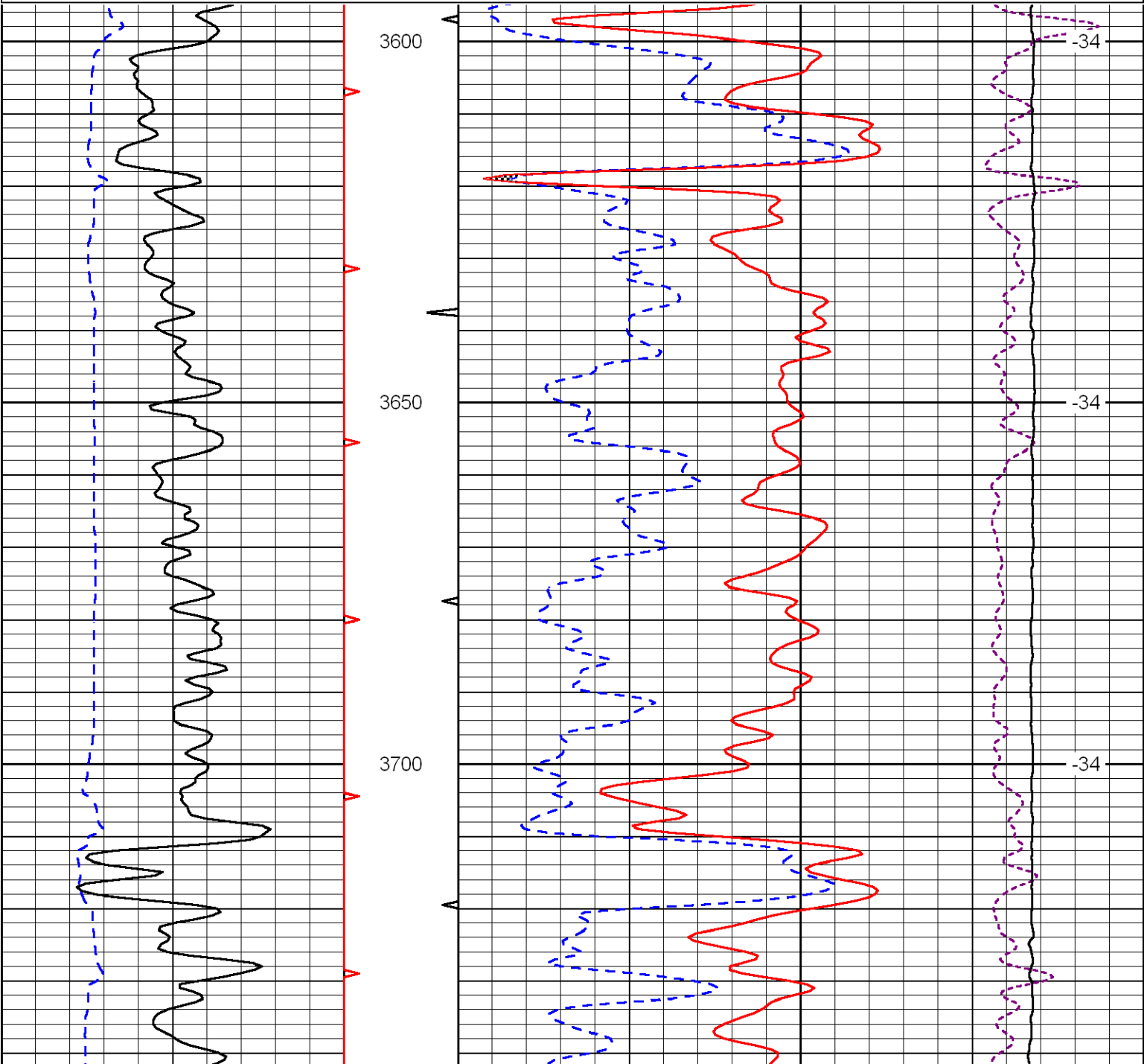


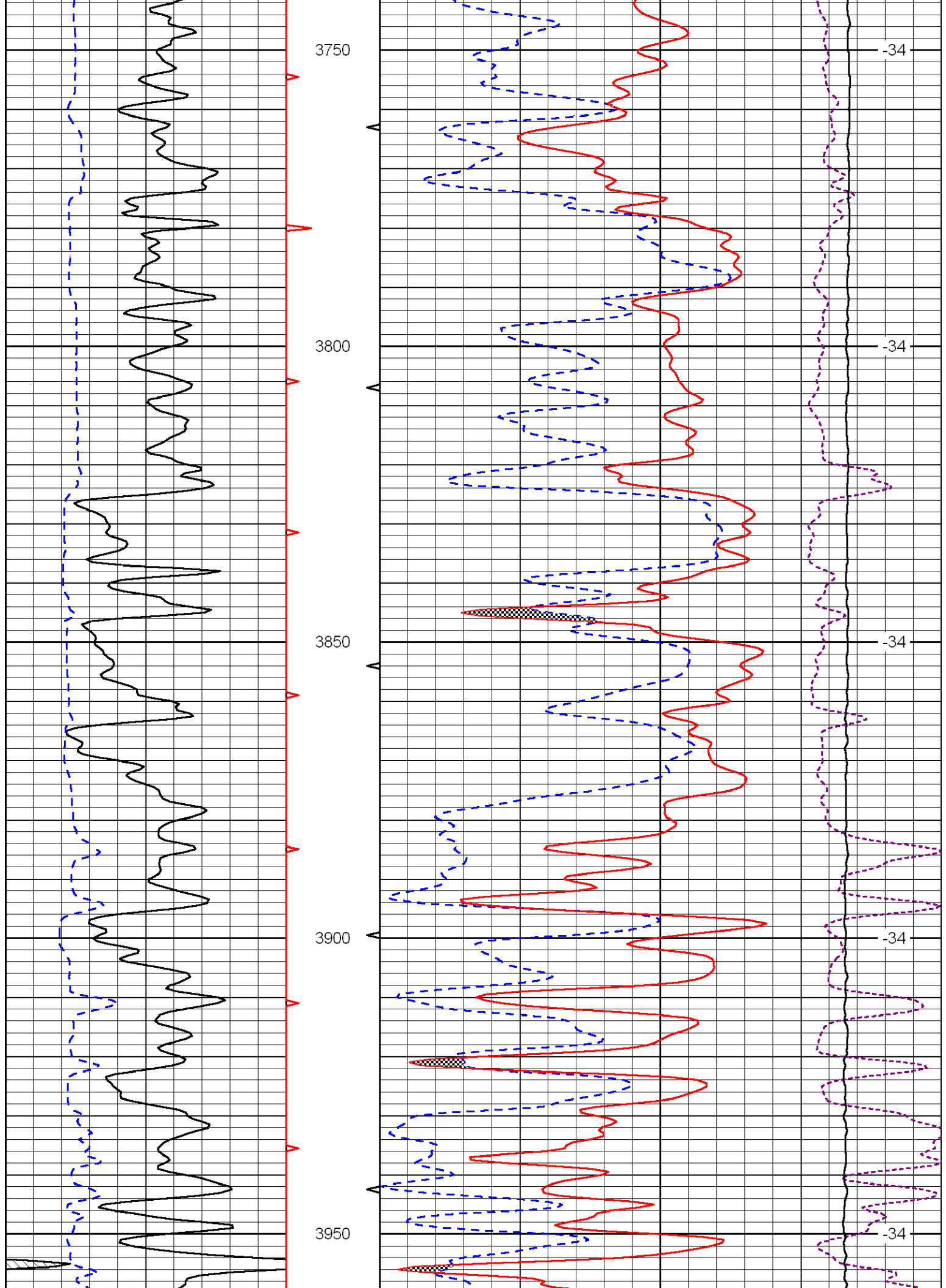


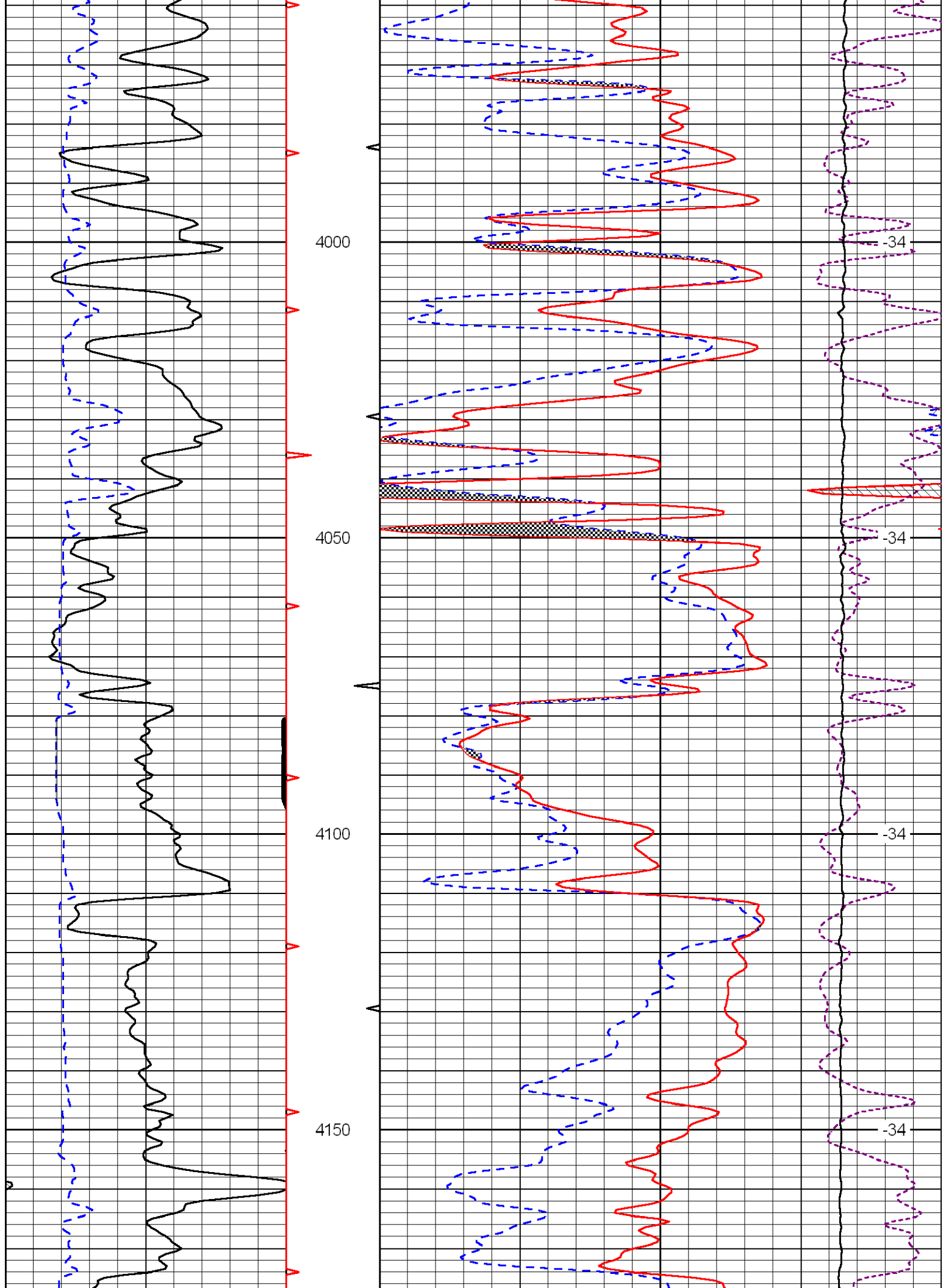


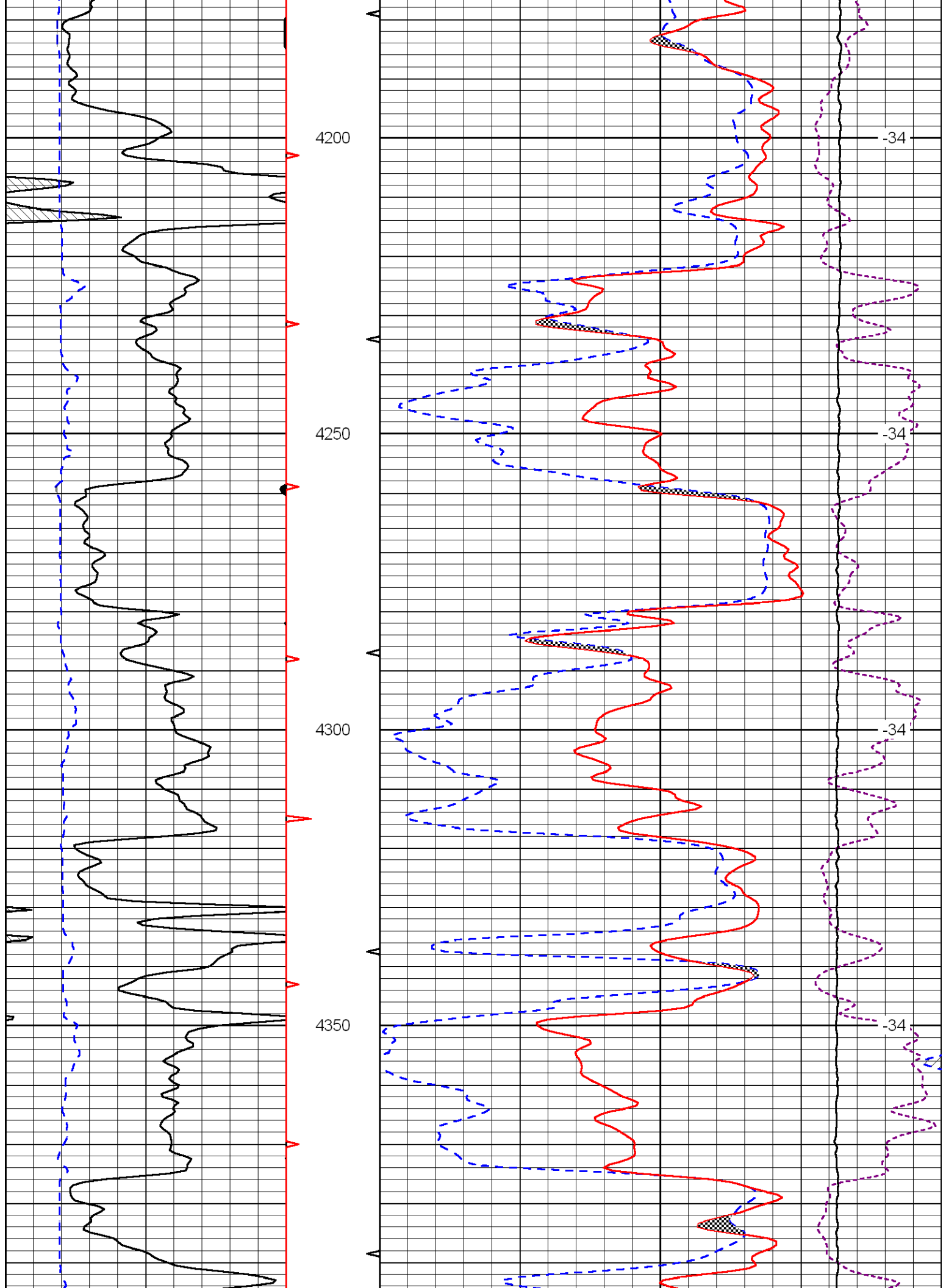
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						10000		Line Tension		0			
								-0.25		Correction		0.25	
										LSPD			

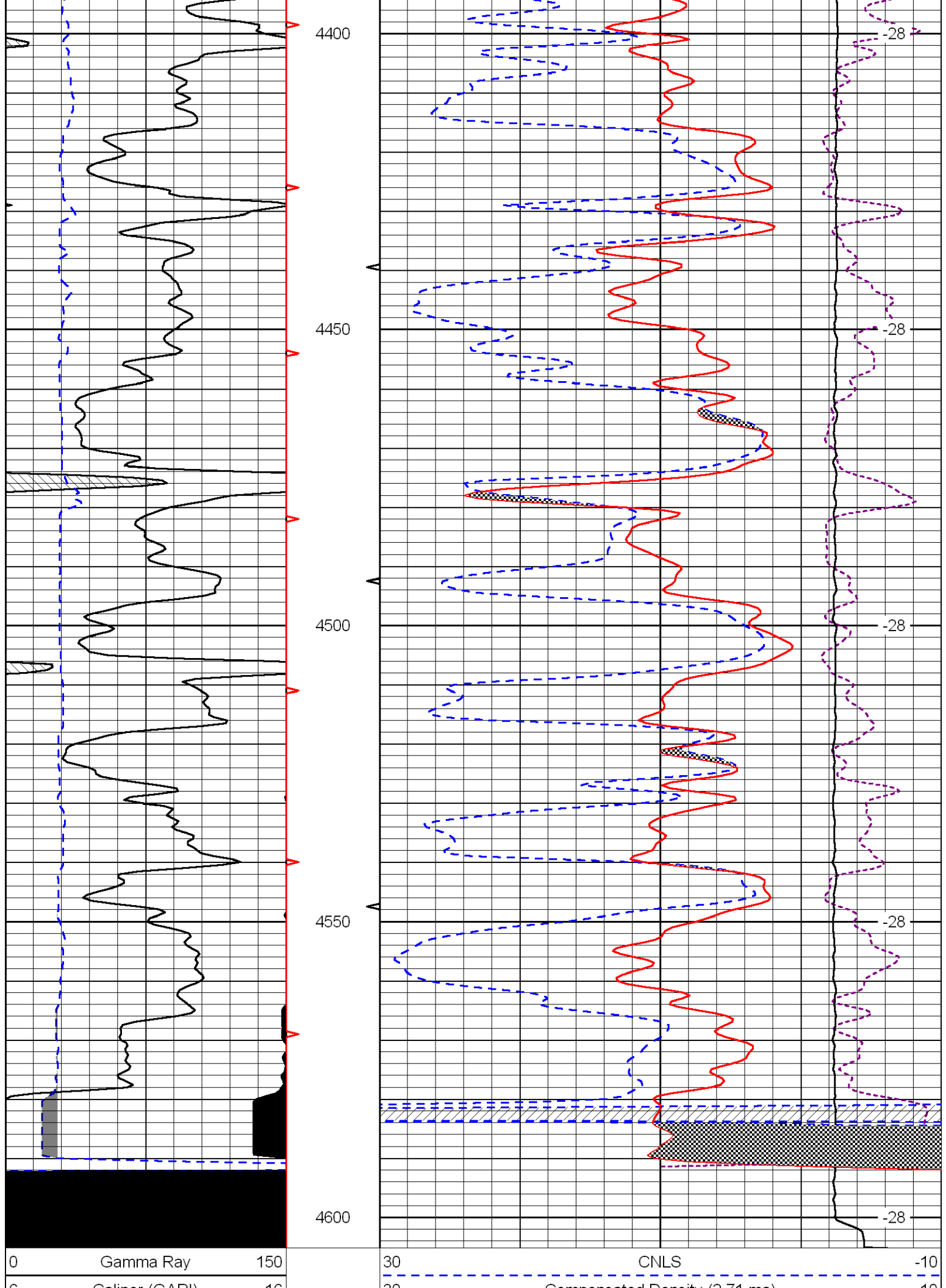
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Charted by: Depth in Feet scaled 1:240					
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6	Caliper (GAPI)	16	30	Compensated Density (2.71 ma)	-10
			10000	Line Tension	0
				-0.25	Correction
					0.25
			LSPD		











6 Caliper (GAP1) 16

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