



Pioneer Energy Services

## Dual Compensated Porosity Log

15-115-21,435-00-00

API No.

Company Range Oil Company, Inc.

Well Savage 'A' #1

Field Wildcat

County Marion

State Kansas

Location

NW/4  
1,080' FNL & 2,150' FWL

Other Services  
DIL  
BHCS

Sec: 22

Twp: 21 S

Rge: 4 E

Elevation

K.B. 1304  
D.F.  
G.L. 1294

Permanent Datum  
Log Measured From  
Drilling Measured From

Ground Level  
Kelly Bushing  
Kelly Bushing

10 Ft. Above Perm. Datum

Date 11/29/2012

Run Number

Two

Type Log

CNL / CDL

Depth Driller

2410

Depth Logger

2410

Bottom Logged Interval

2408

Top Logged Interval

200

Type Fluid In Hole

Chemical

Salinity, PPM CL

800

Density

9.4

Level

Full

Max. Rec. Temp. F

100

Operating Rig Time

4 1/2 Hours

Equipment -- Location

15 Hays

Recorded By

D. Martin

Witnessed By

Ken Wallace

### Borehole Record

### Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	212	8.625	24#	00	212
2	7.875	212	2410				

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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.

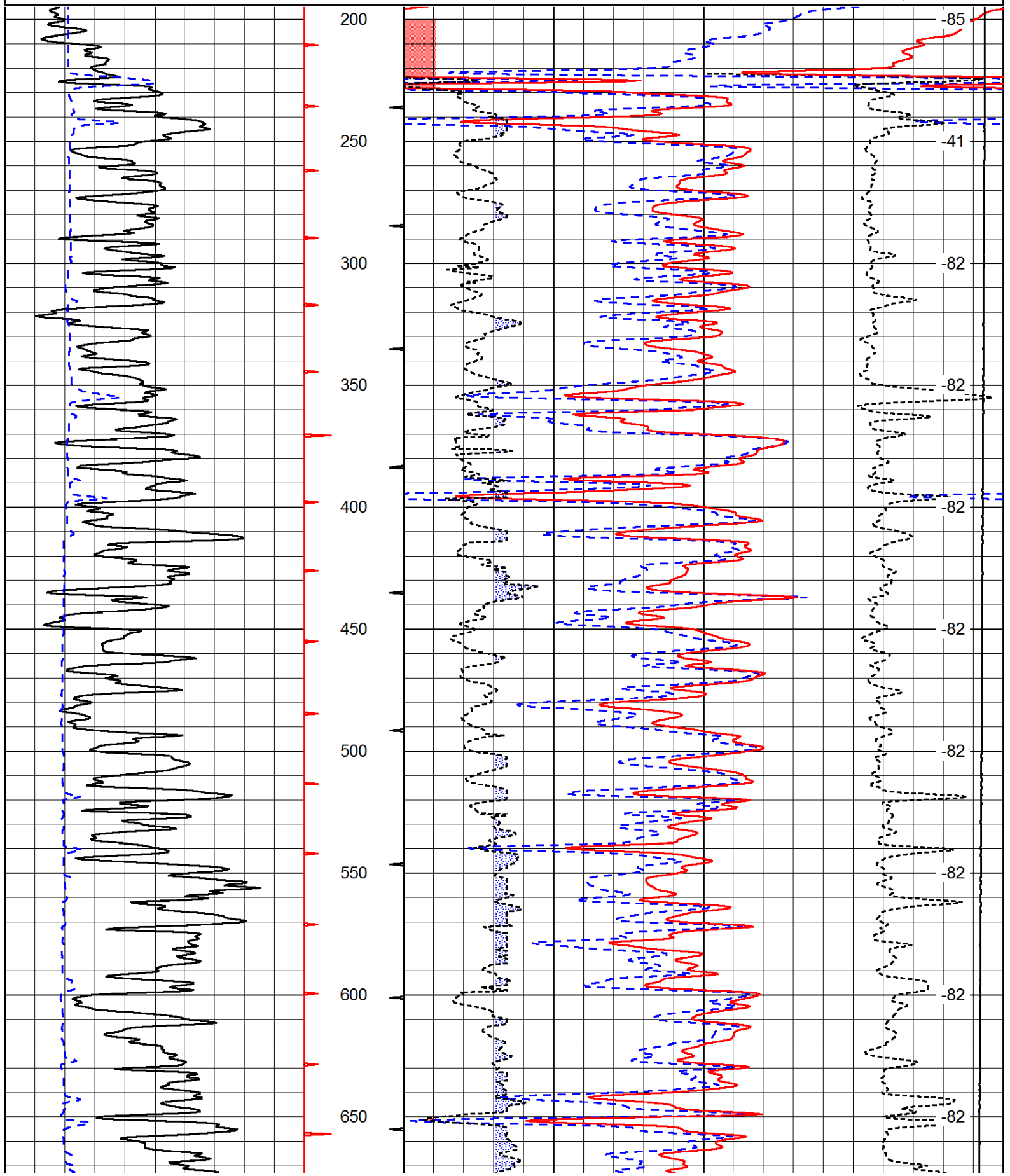
### Comments

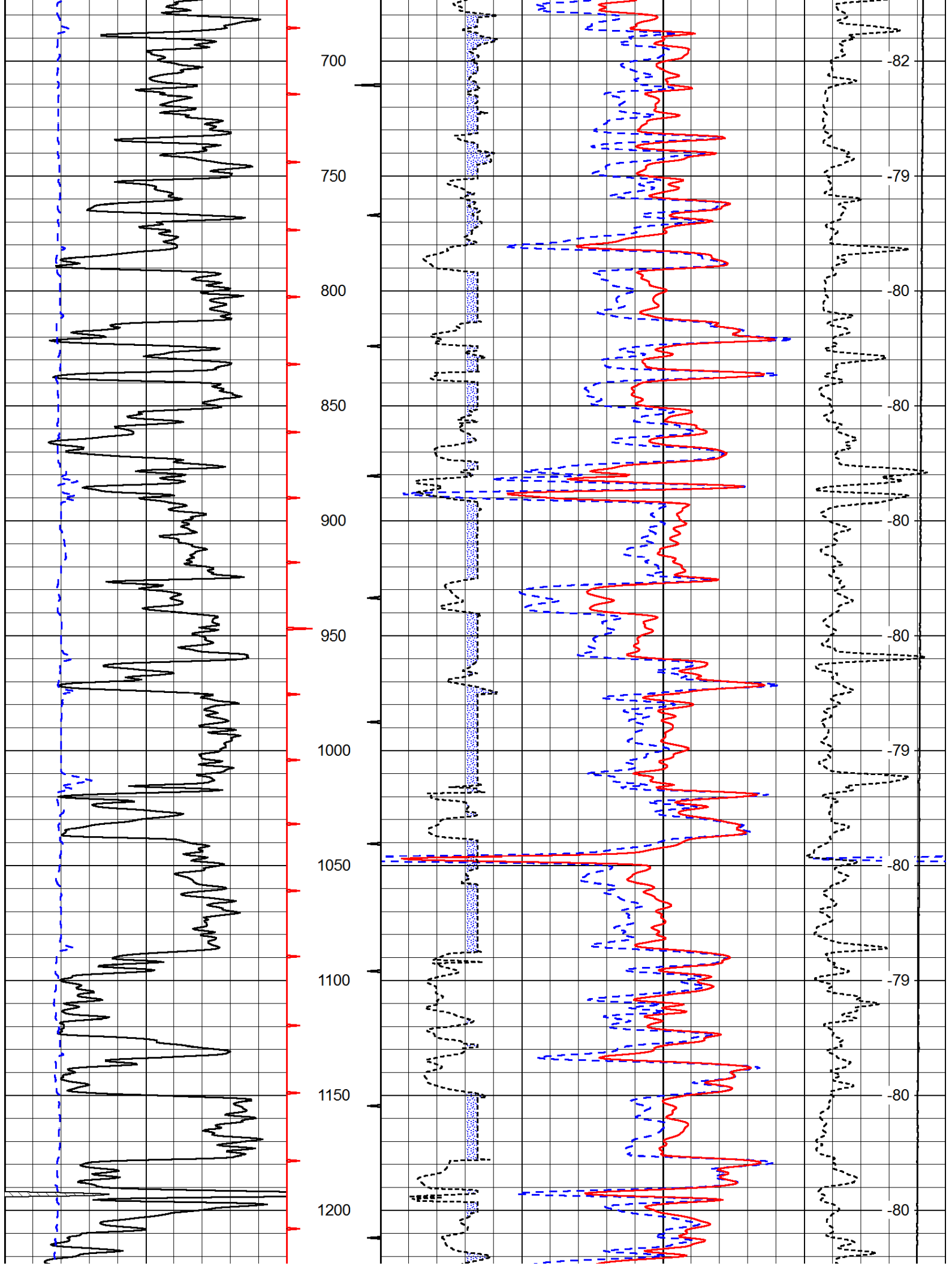
Thank you for using Pioneer Energy Services  
[www.pioneerenergy.com](http://www.pioneerenergy.com)  
 785 625 3858  
 Peabody, KS  
 6 1/2 E on Hwy 50 to Mile Marker 298,  
 S Into(Cross RR Tracks, E)

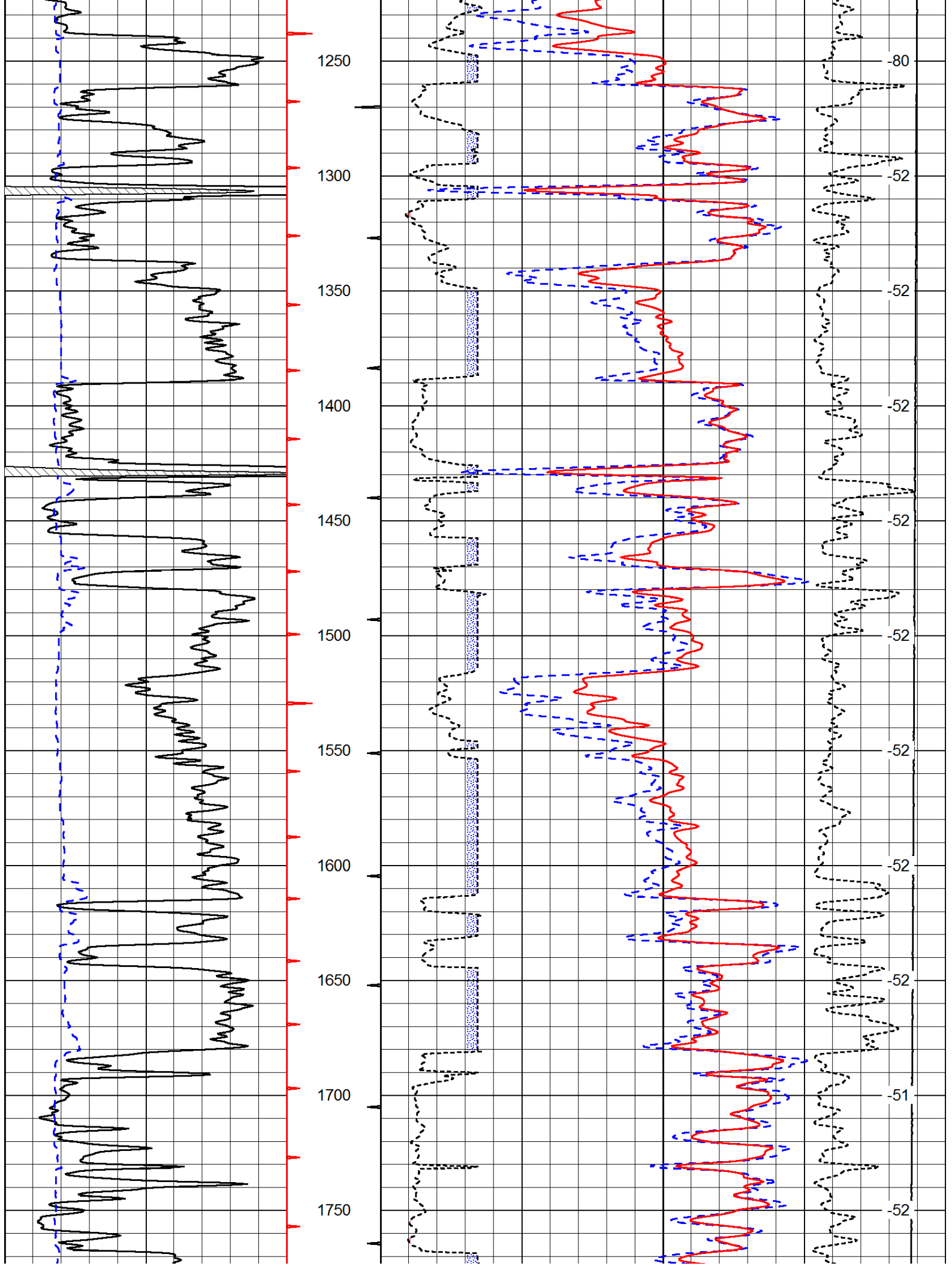
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 Dataset Pathname: dil/rangdil  
 Presentation Format: cdl  
 Dataset Creation: Thu Nov 29 10:52:45 2012  
 Charted by: Depth in Feet scaled 1:600

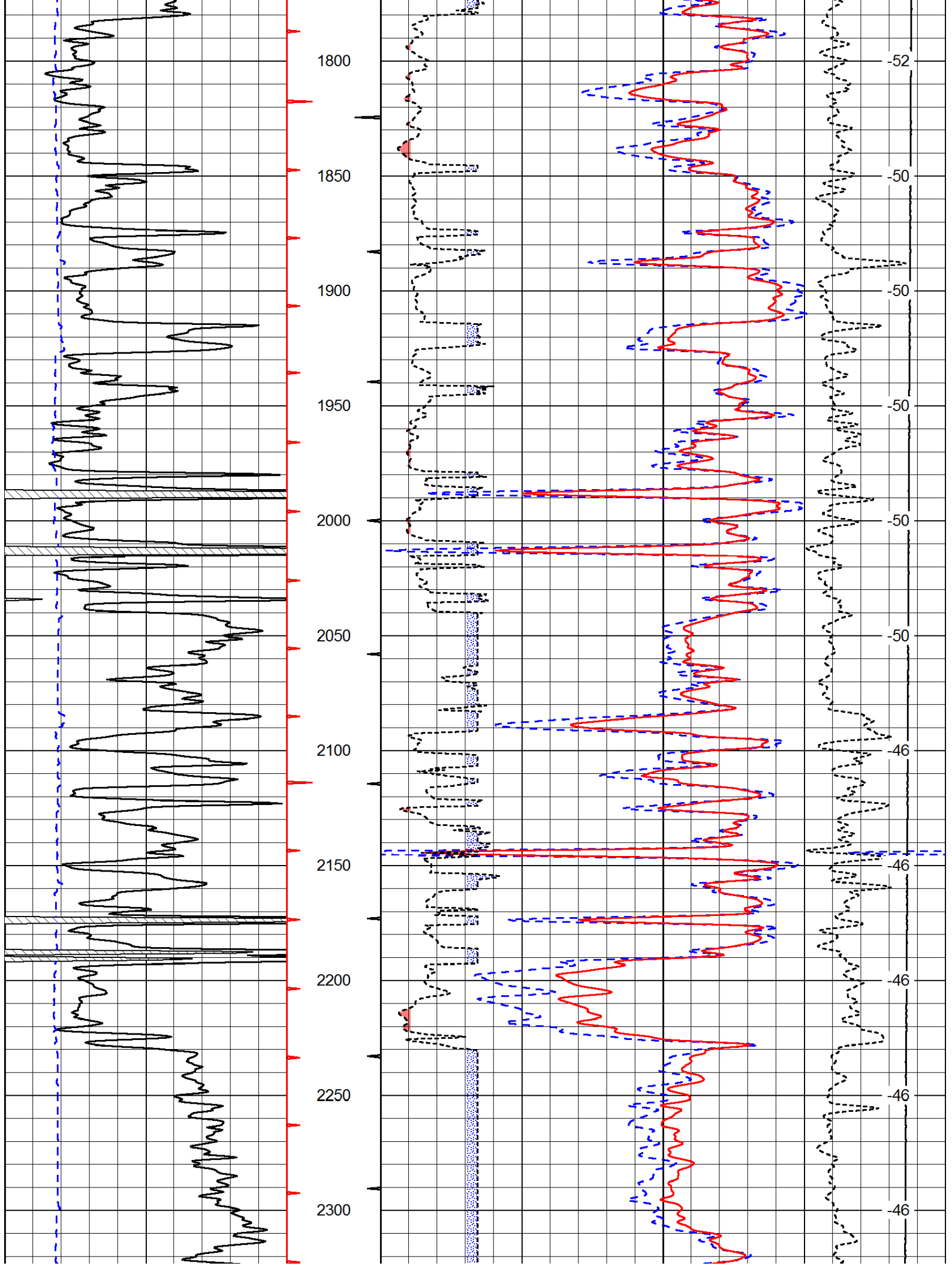
0	Gamma Ray	150
6	Caliper (GAPI)	16

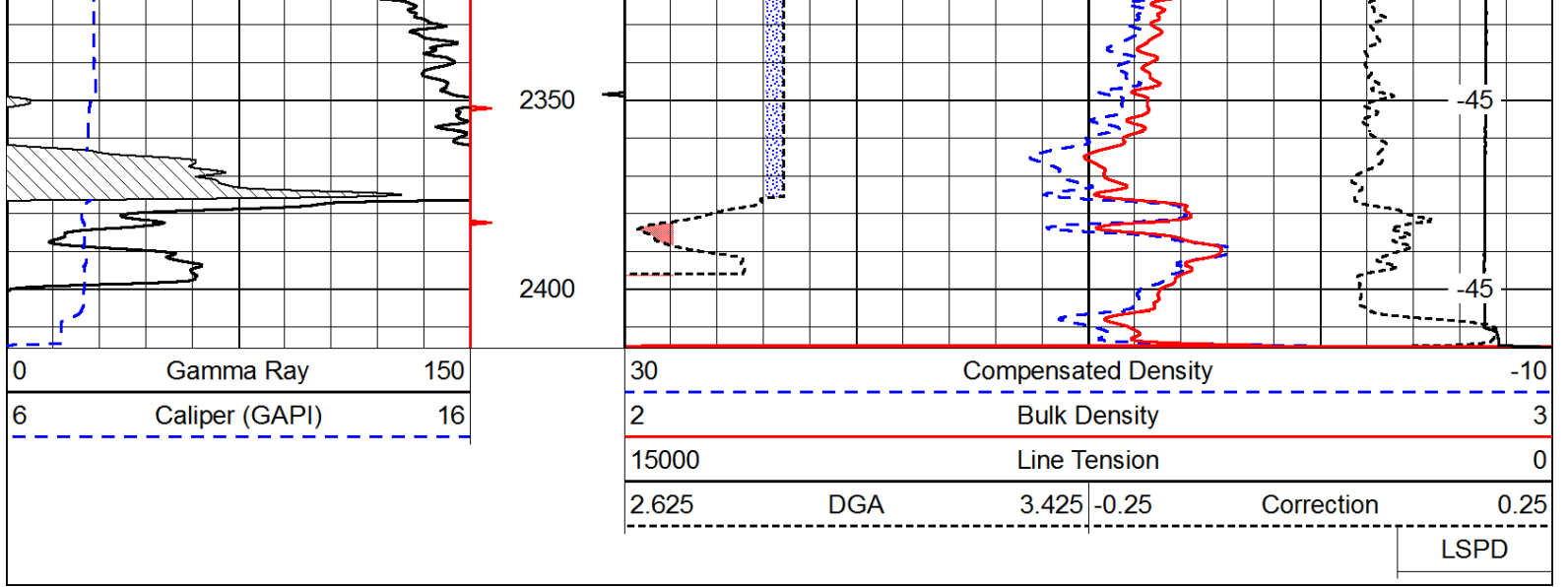
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
			Correction
			0.25
LSPD			



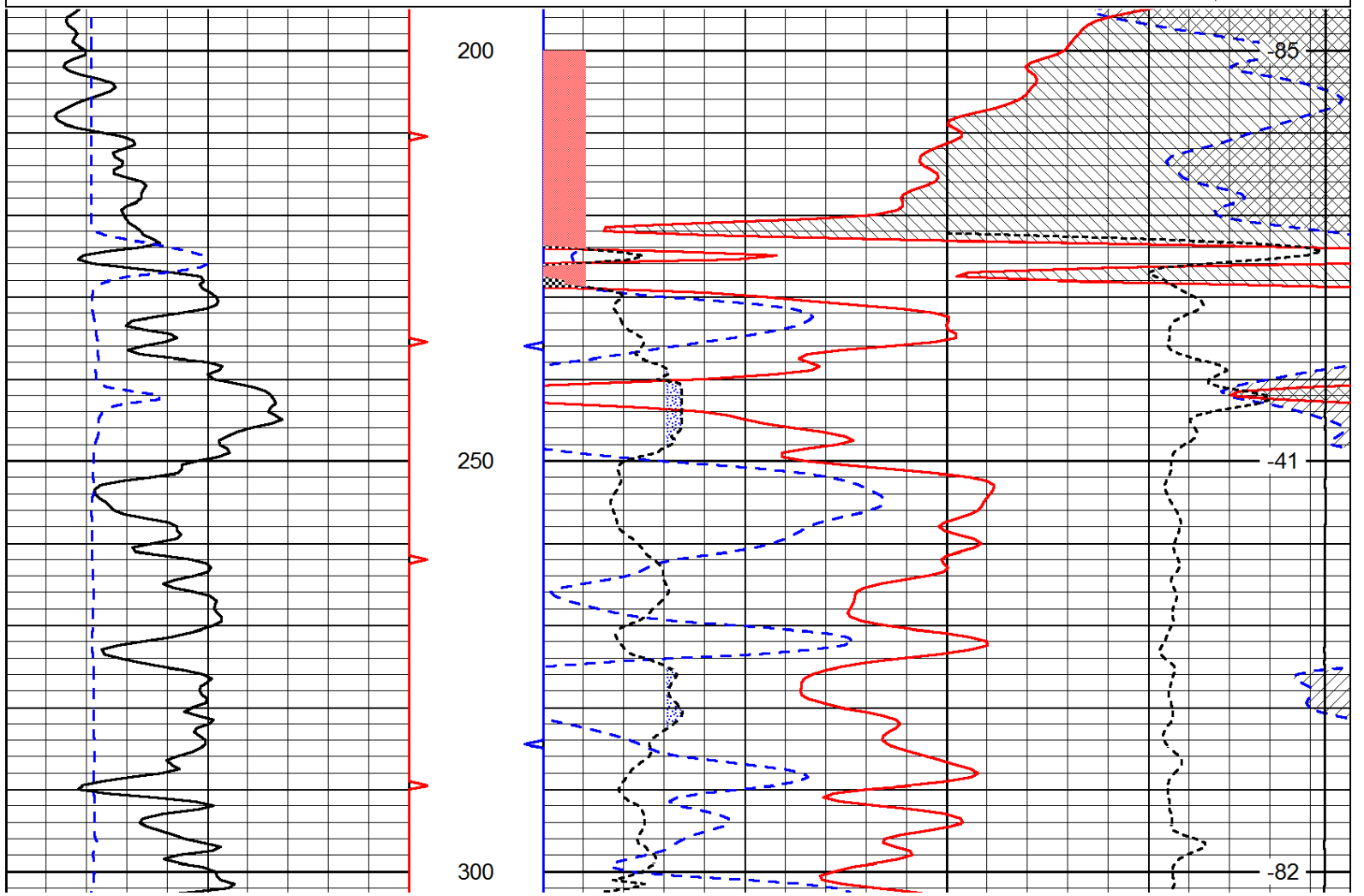
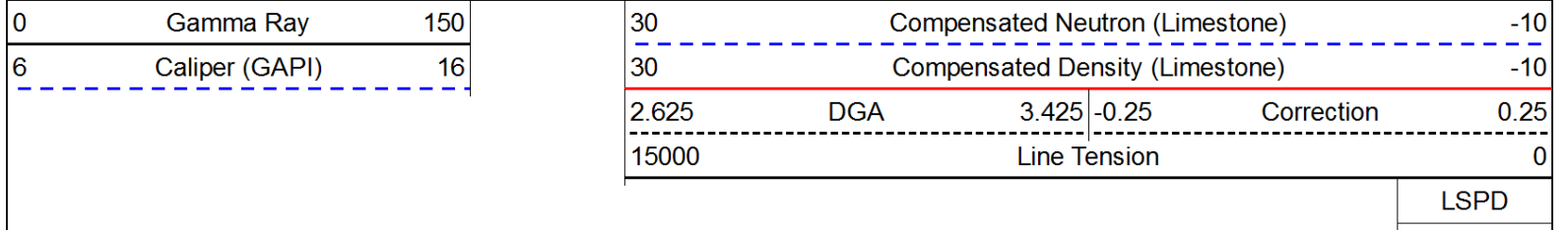


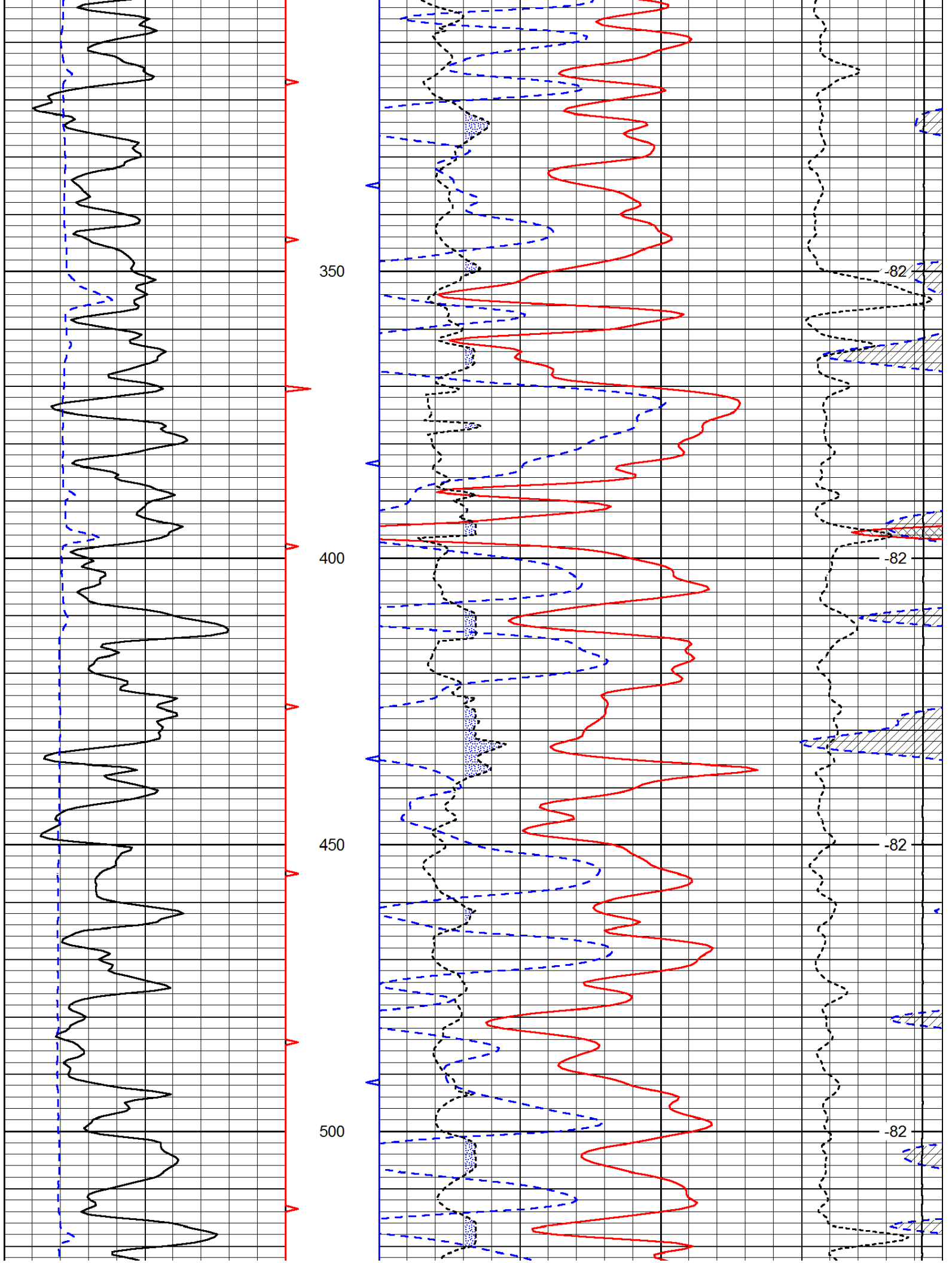


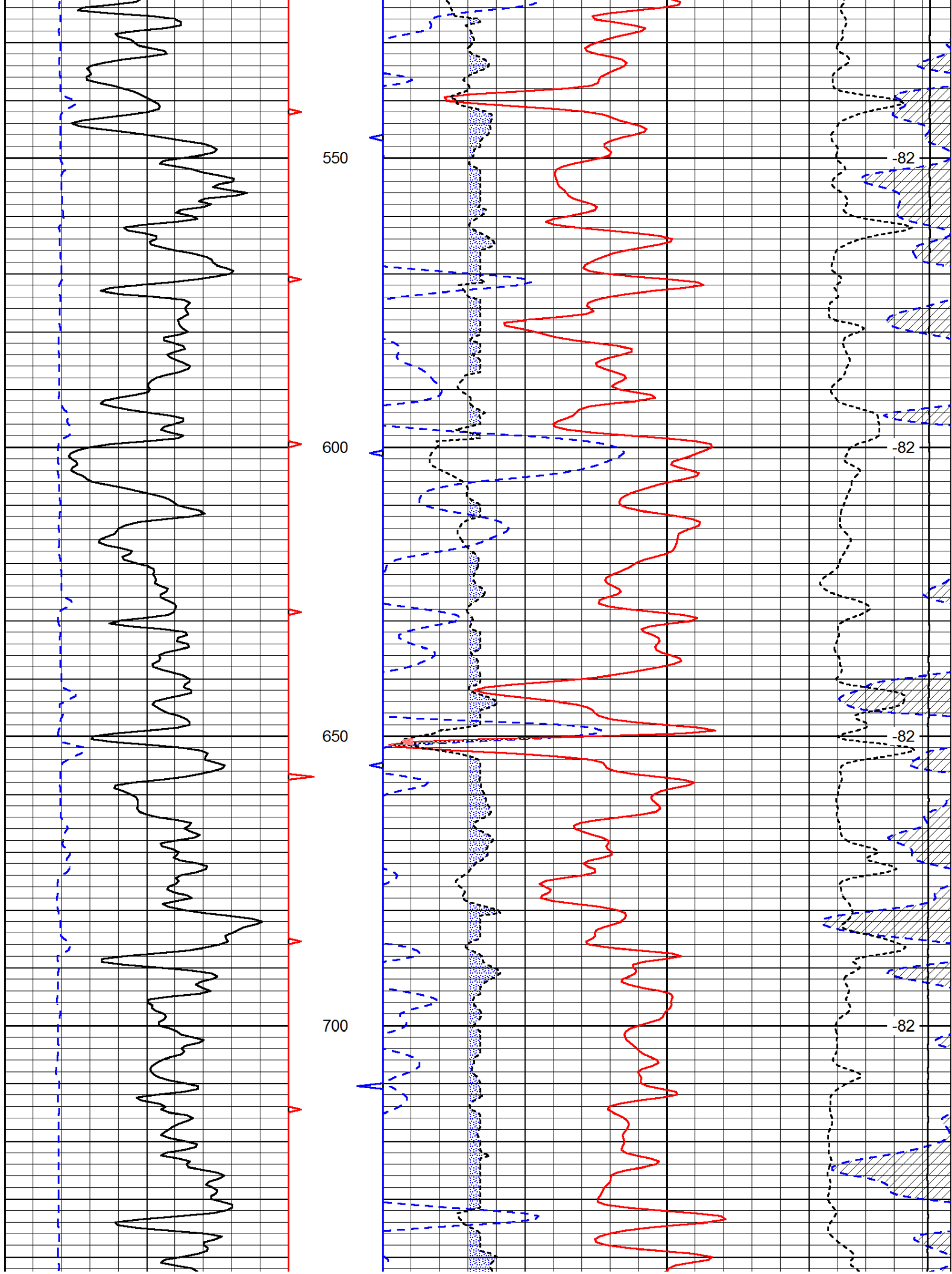




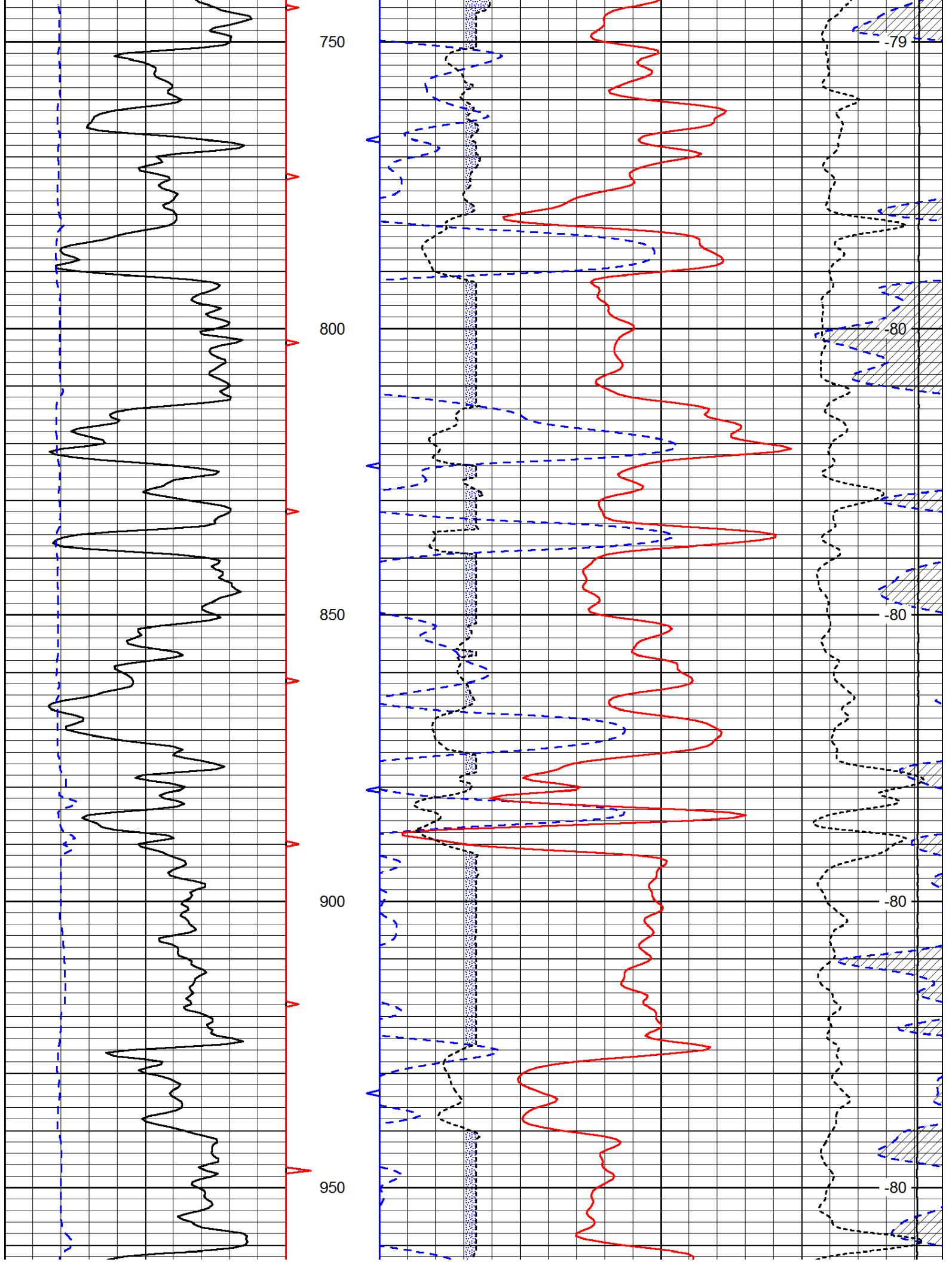
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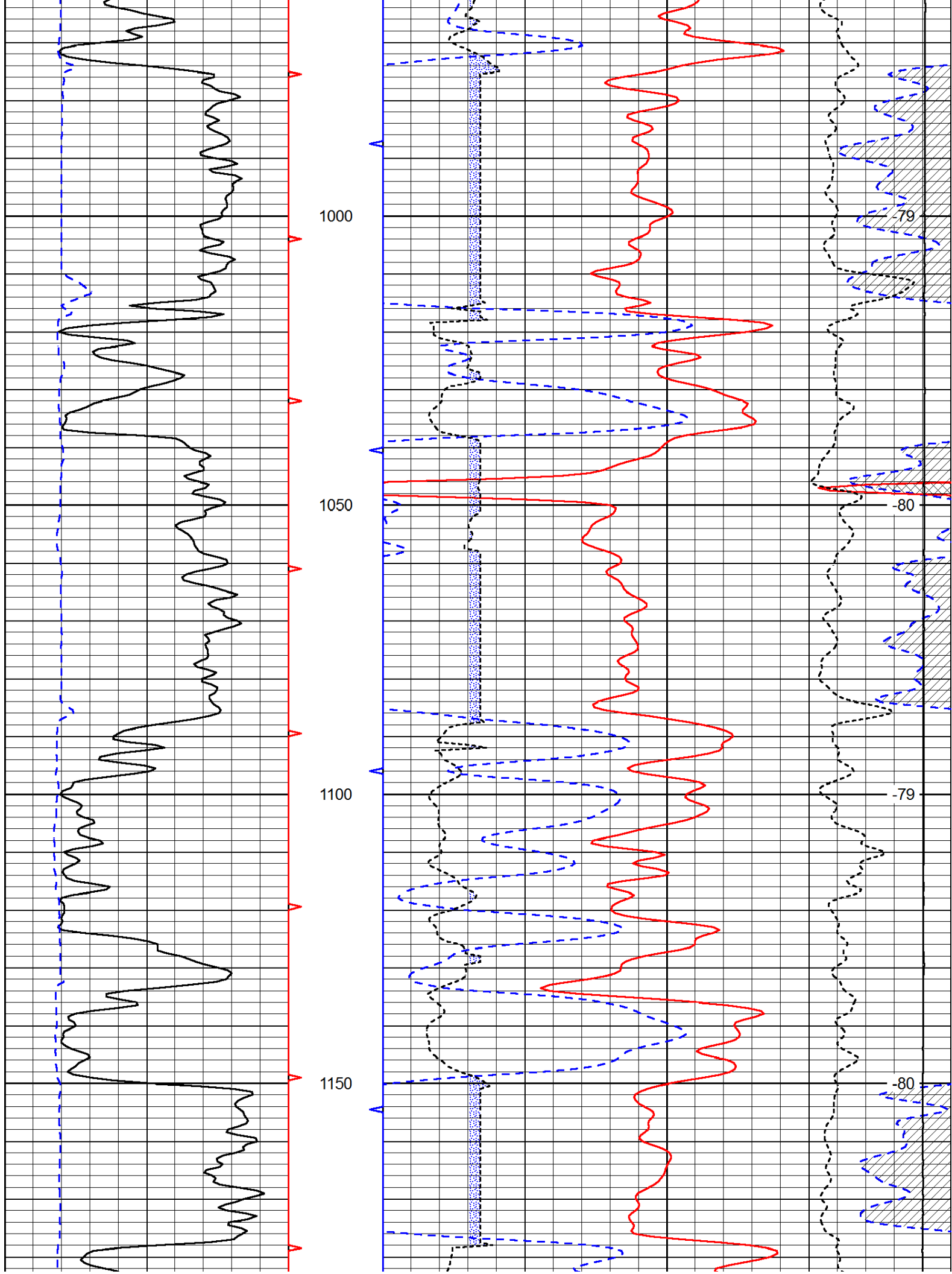


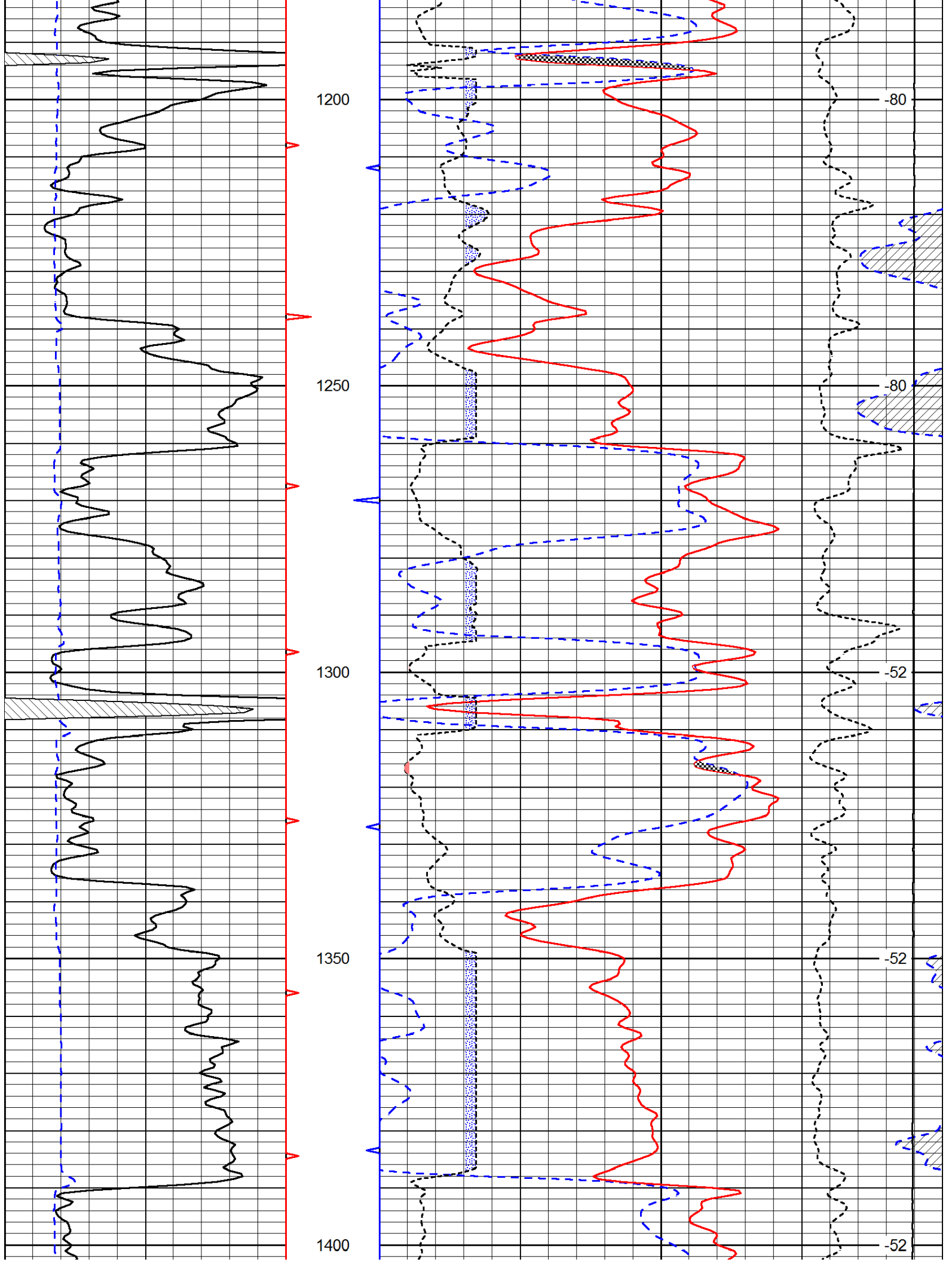


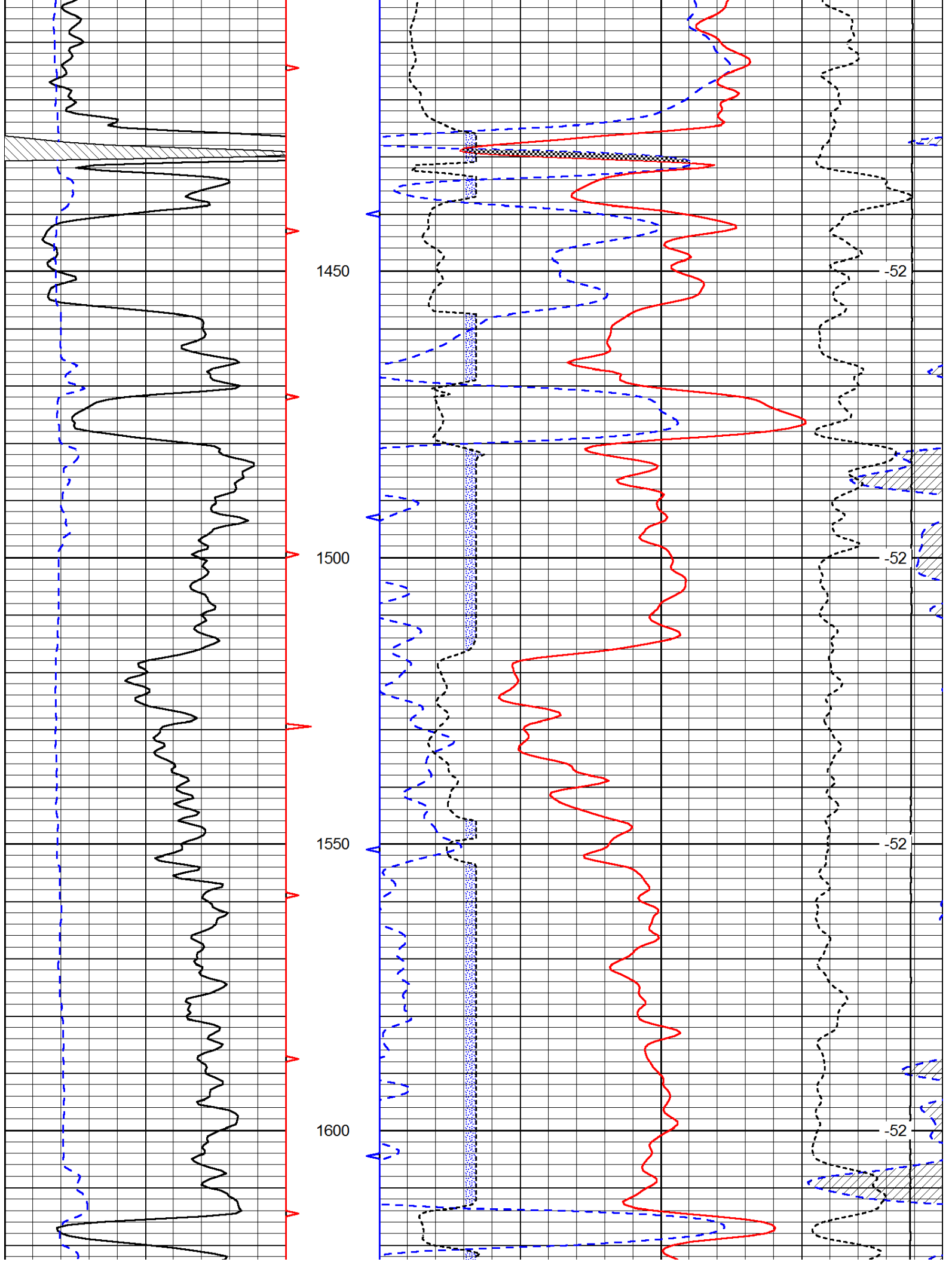


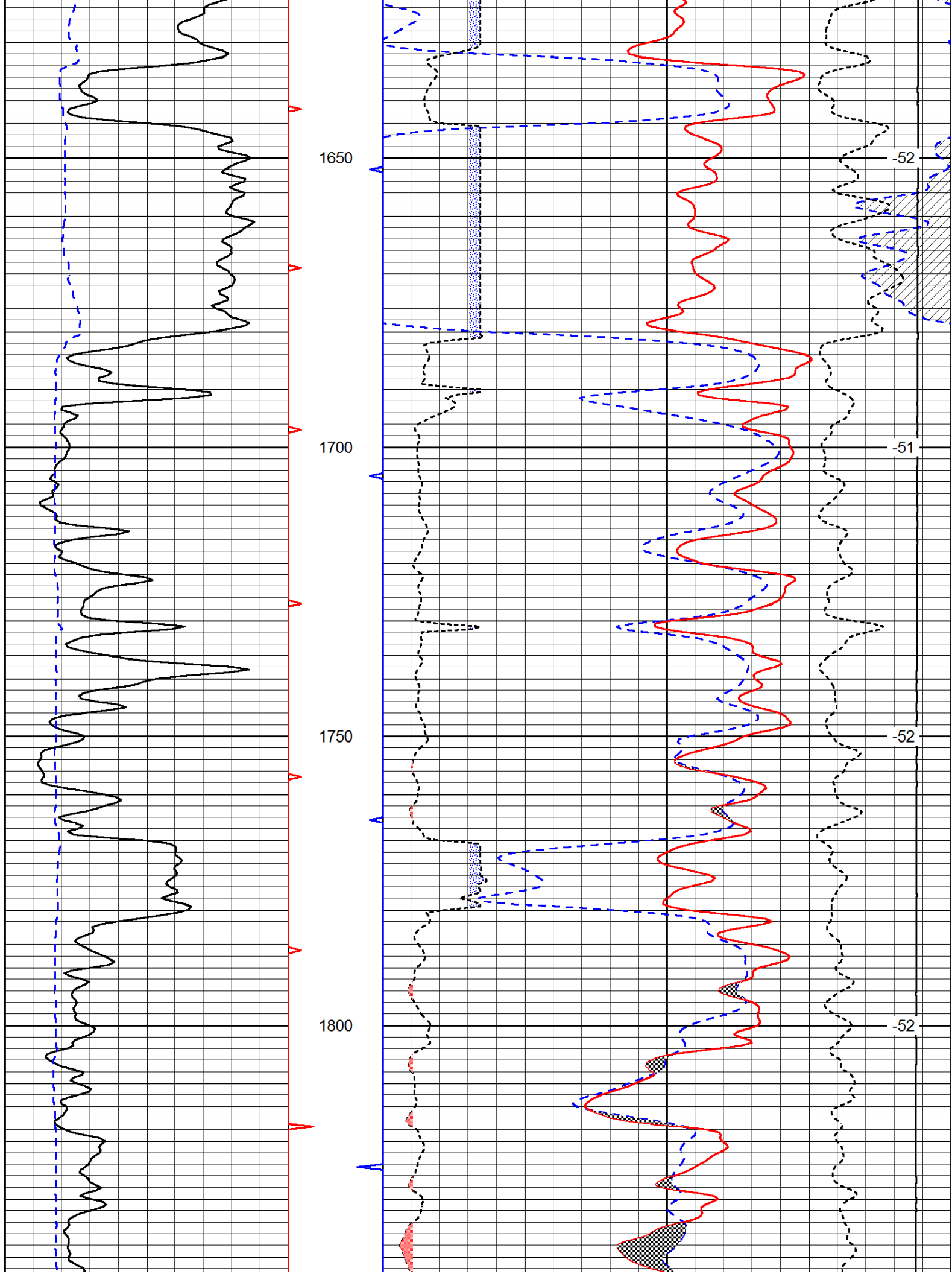


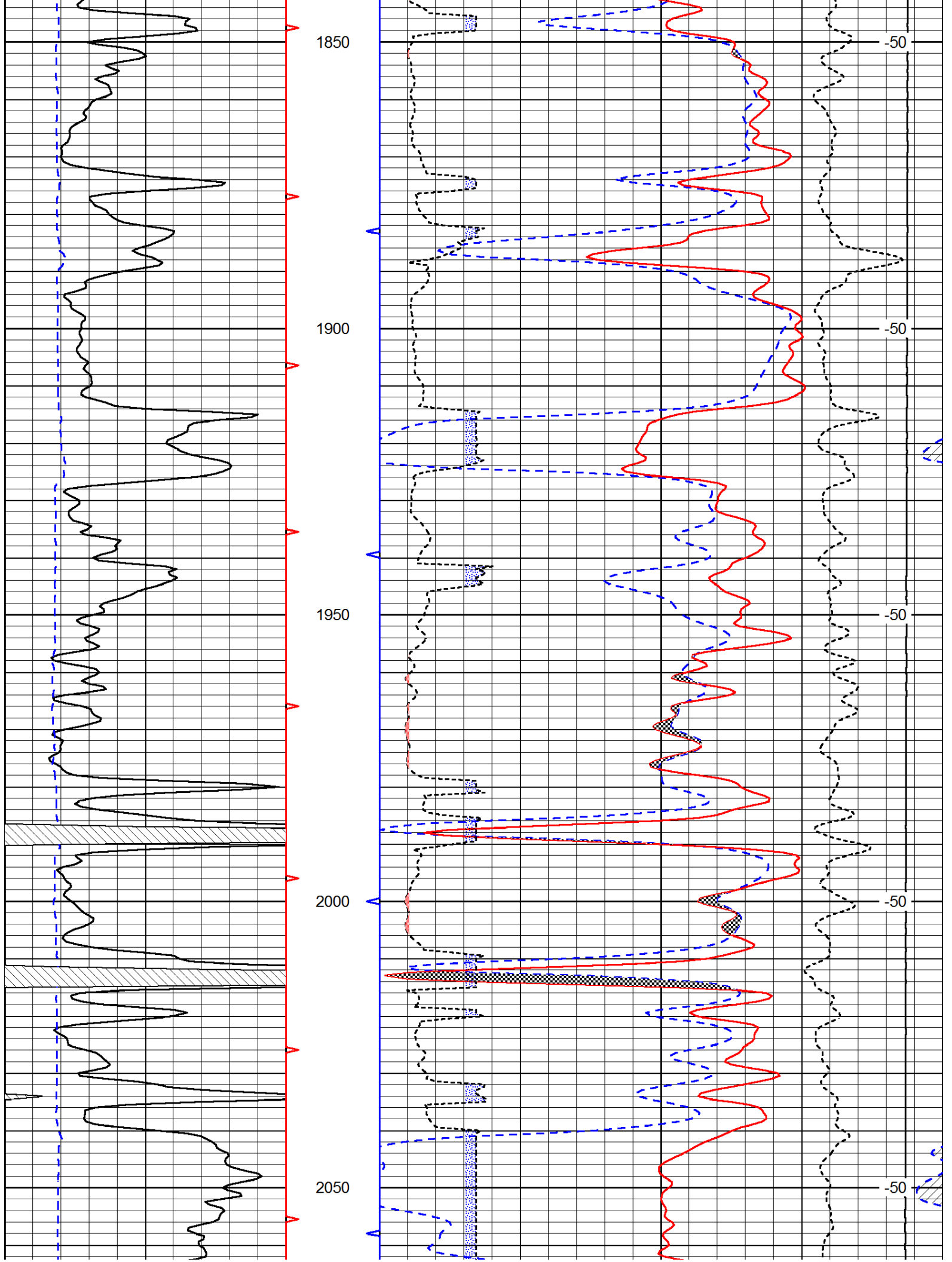


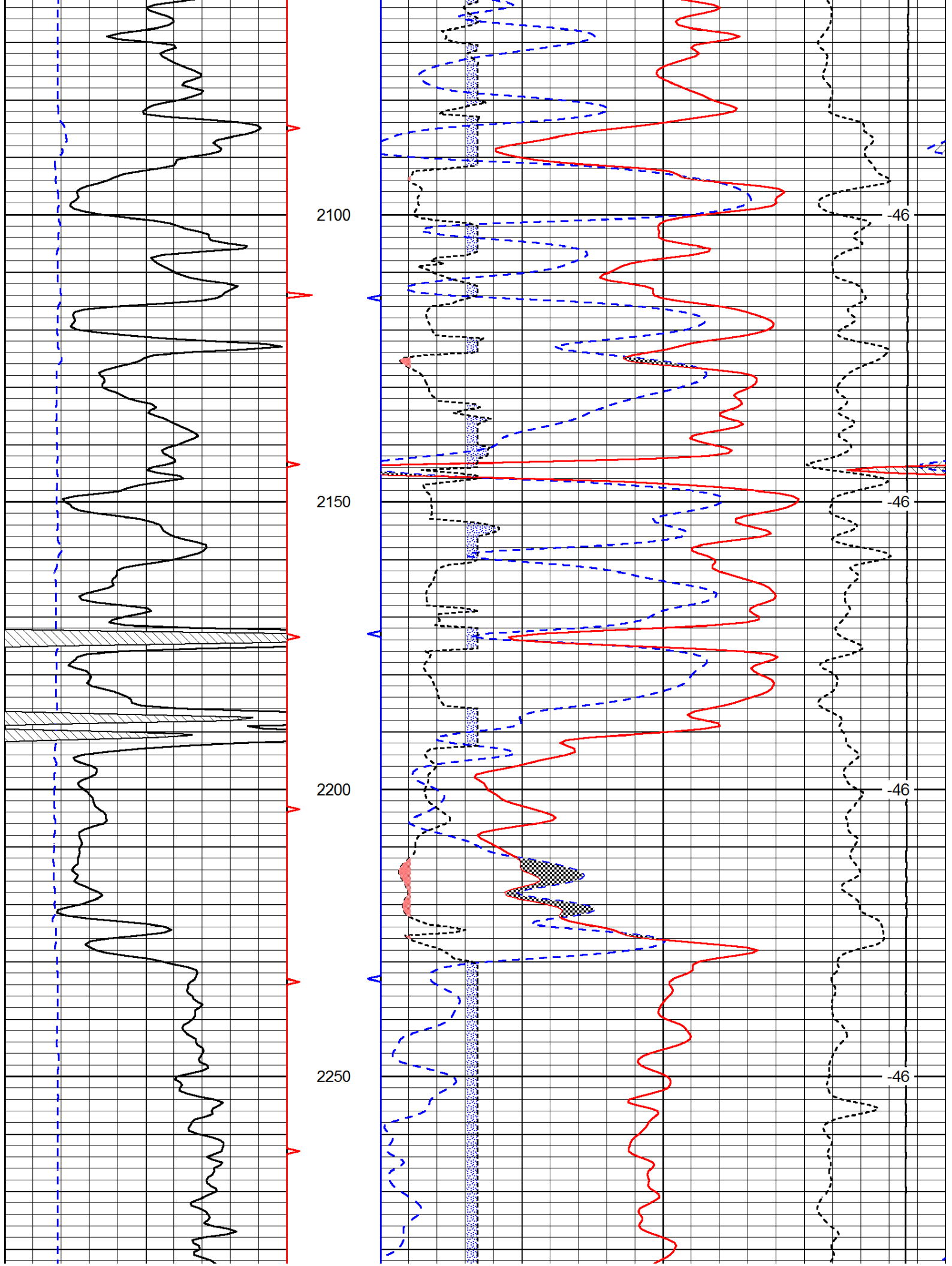


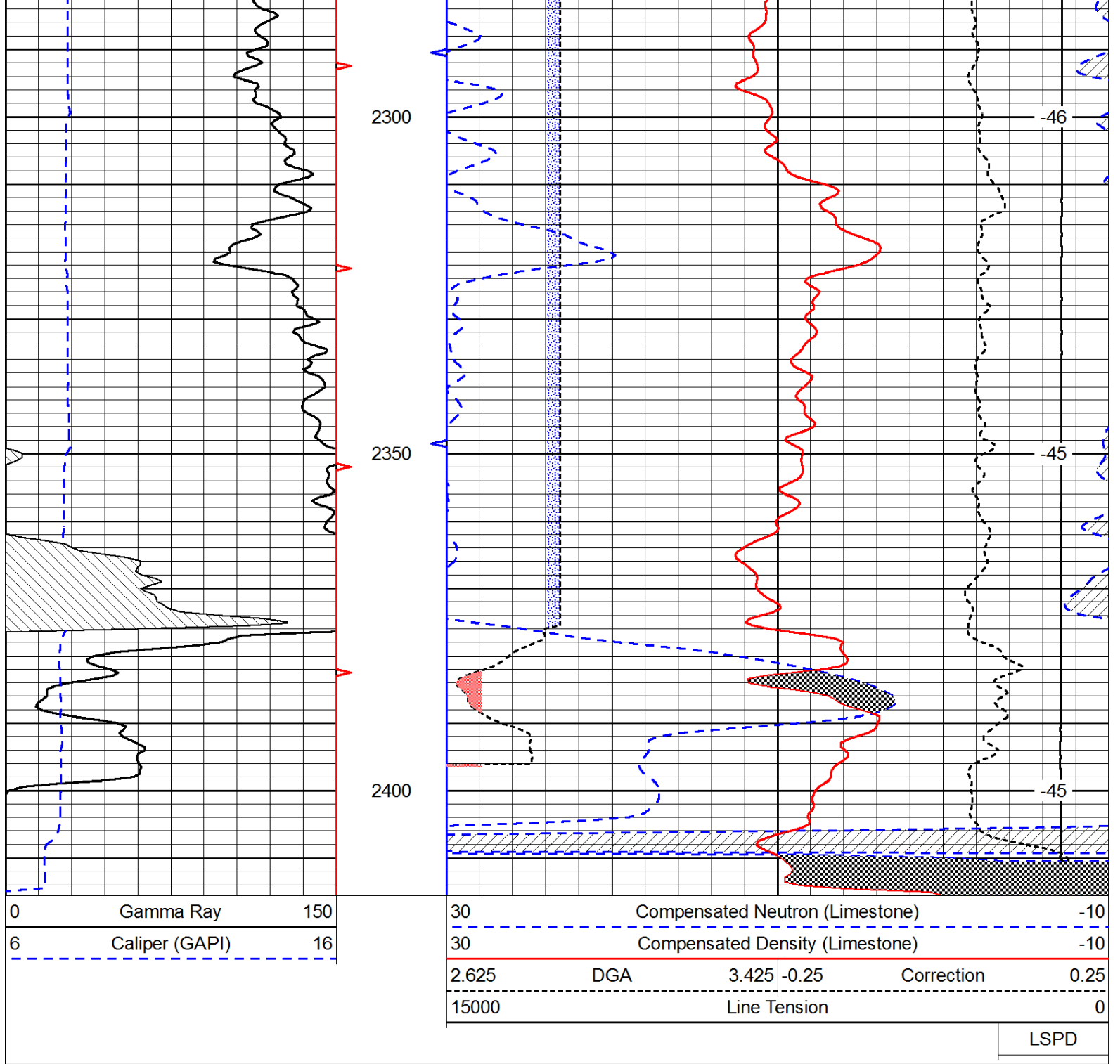












LSPD