



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-195-22929-00-00

Company **Murfin Drilling Company, Inc.**

Well **Hobbs #2-2**

Field **Saline Valley**

County **Trego**

State **Kansas**

Location **2310' FNL & 1648' FWL**

Other Services
DIL
MEI/BHCS

Sec: **2** Twp: **11S** Rge: **24W**

Permanent Datum **Ground Level** Elevation **2330**
Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Elevation
K.B. 2335
D.F.
G.L. 2330

Date **4/7/2014**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **4029**

Depth Logger **4027**

Bottom Logged Interval **3998**

Top Logged Interval **3300**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **3000**

Density **9.0**

Level **Full**

Max. Rec. Temp. F **118**

Operating Rig Time **5 Hours**

Equipment -- Location **91 Hays**

Recorded By **D. Schmidt**

Witnessed By **Charles Schmalz**

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

One 12.25 00 219 8.625 23# 00 219

Two 7.875 219 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.

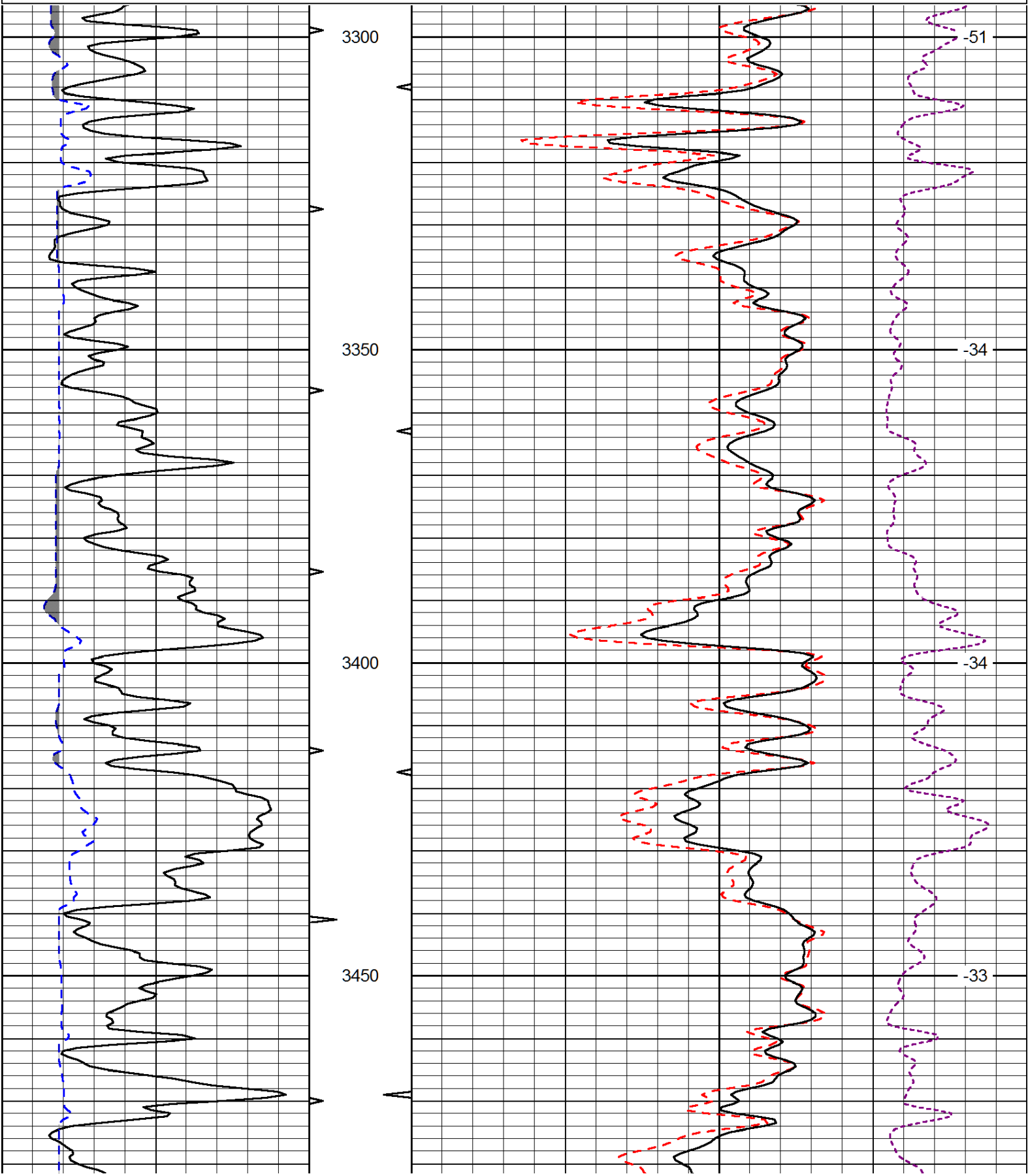
Comments

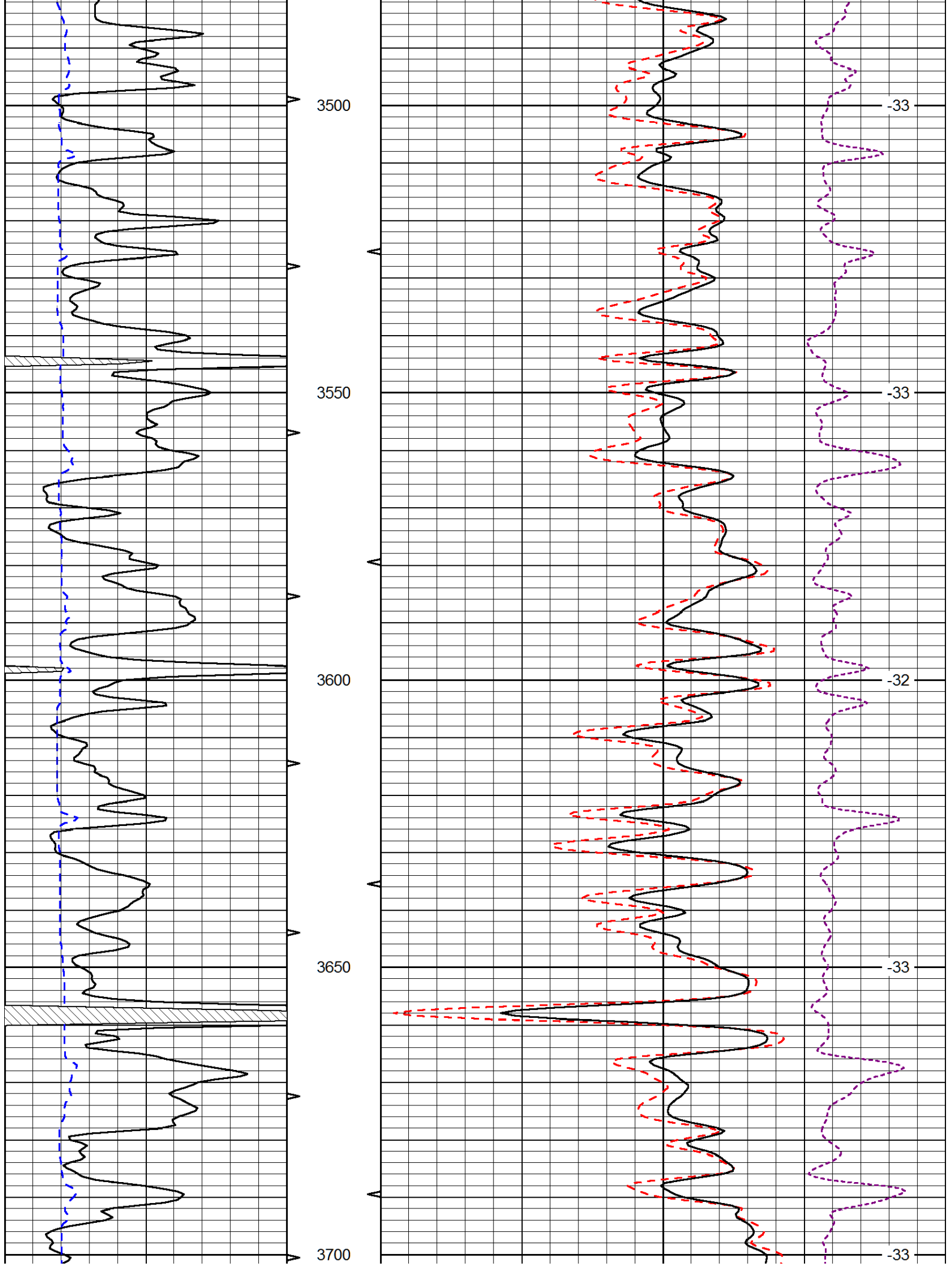
Thank you for using Log-Tech, Inc.
(785) 625-3858

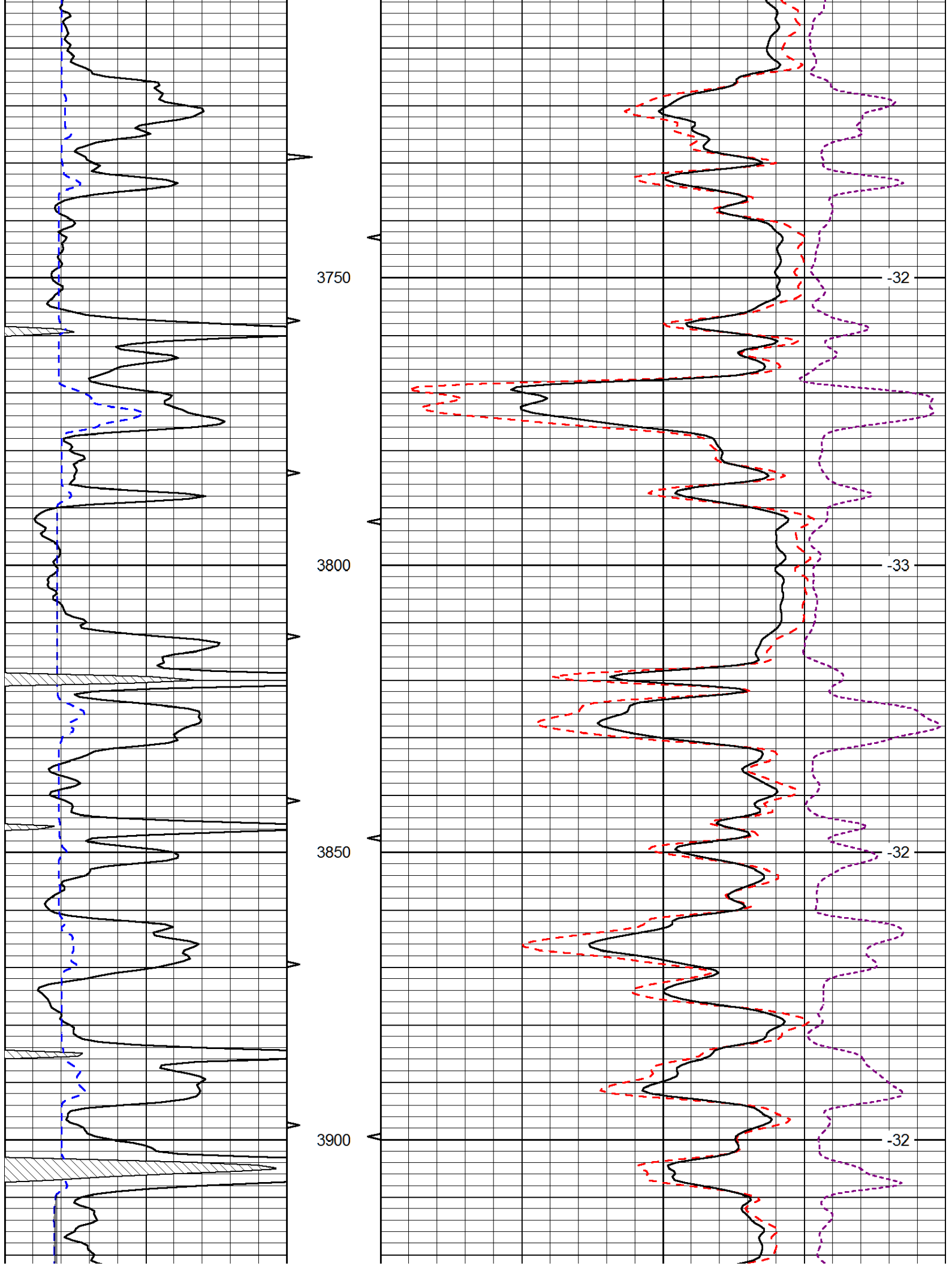
Wakeeney,
North on Hwy 281 to B Rd, 5 West to 210 Rd, 3/4 North,
East & South into

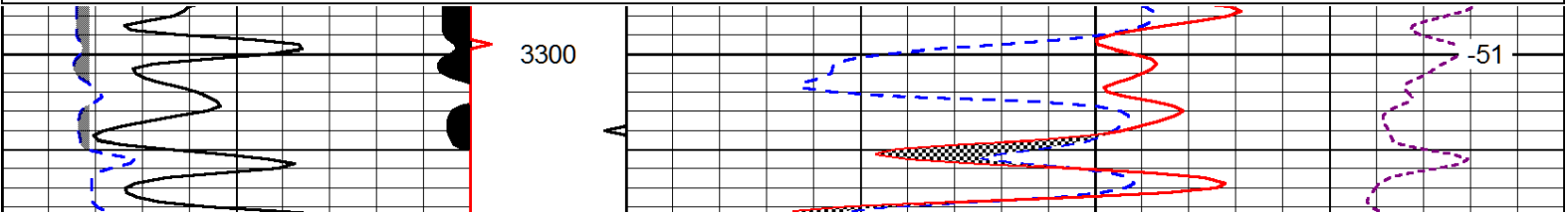
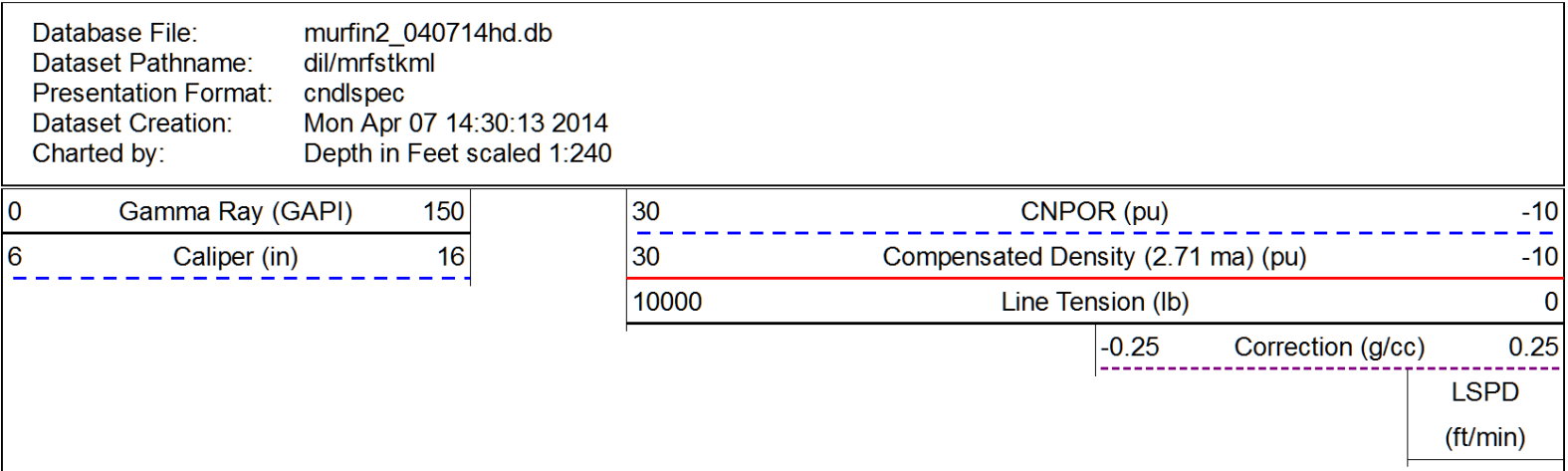
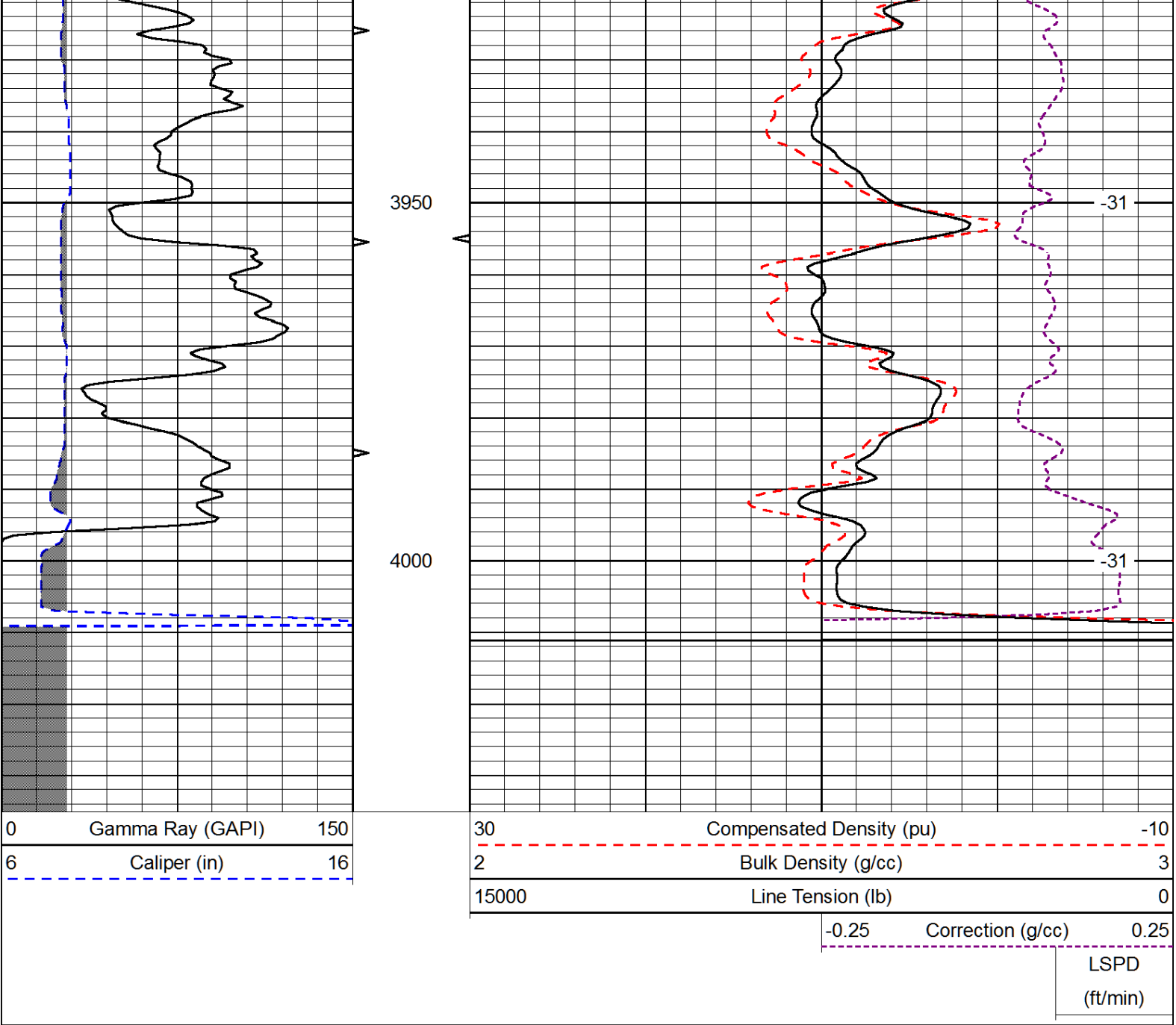
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

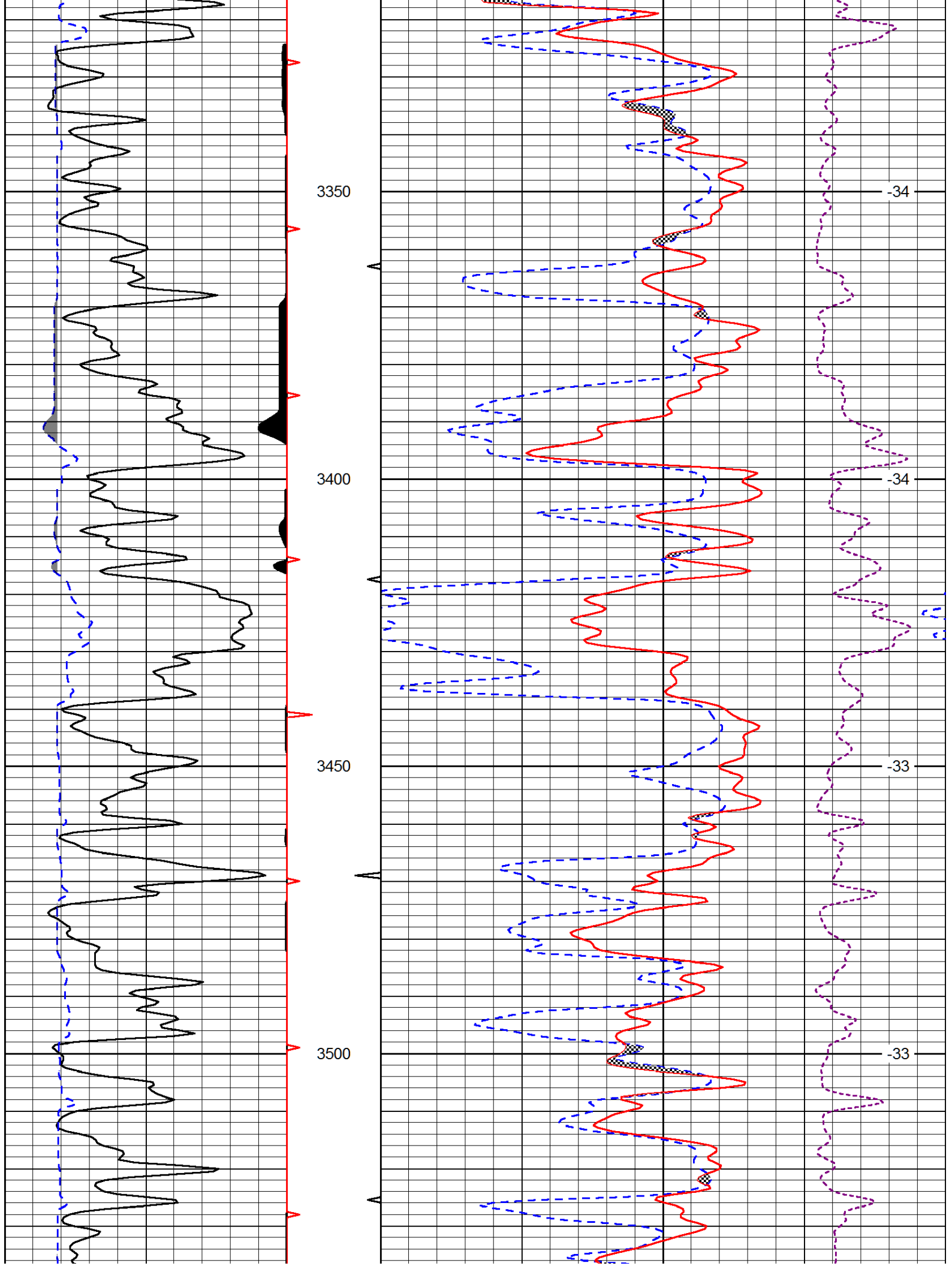
30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25
LSPD (ft/min)		

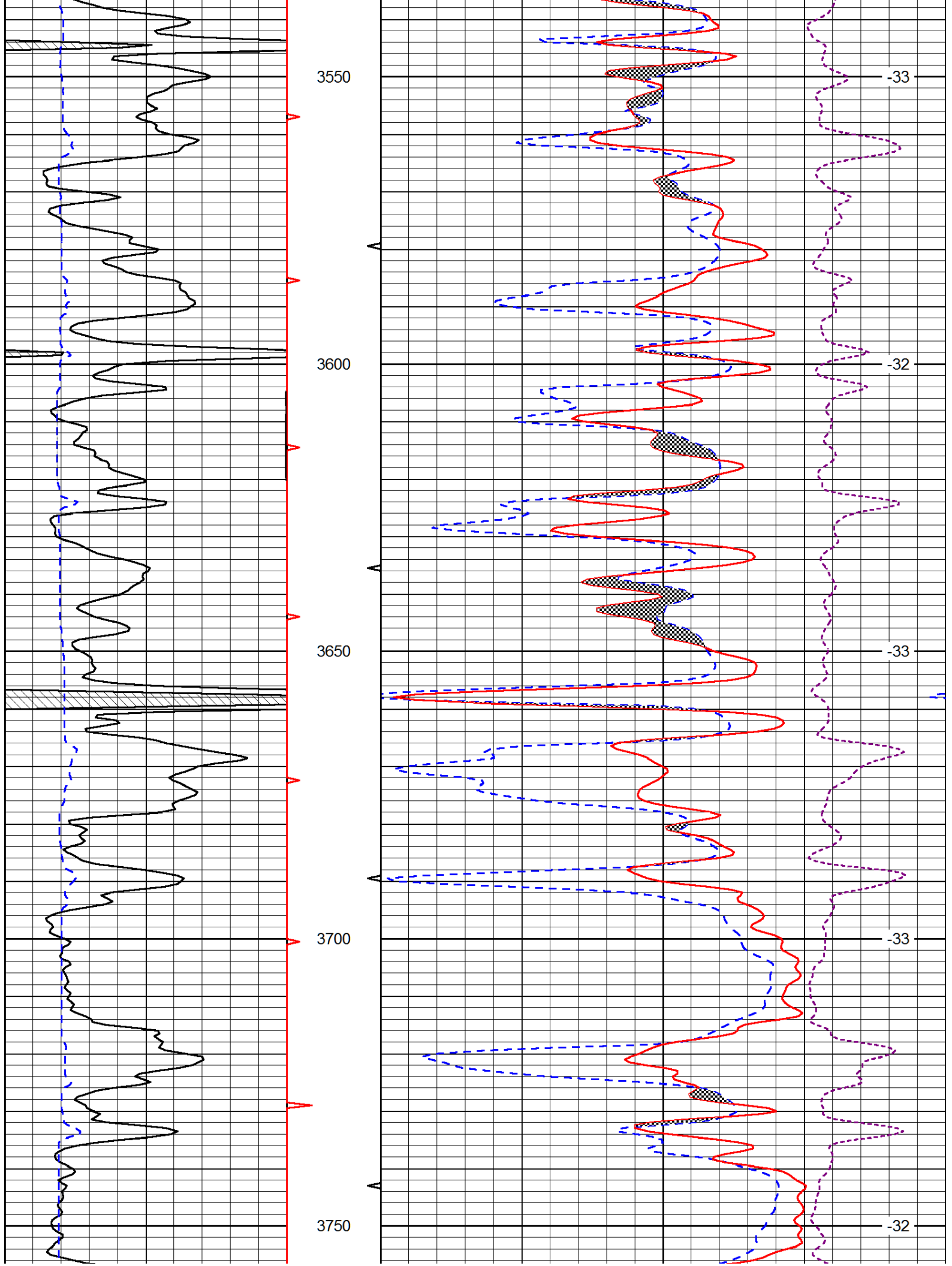


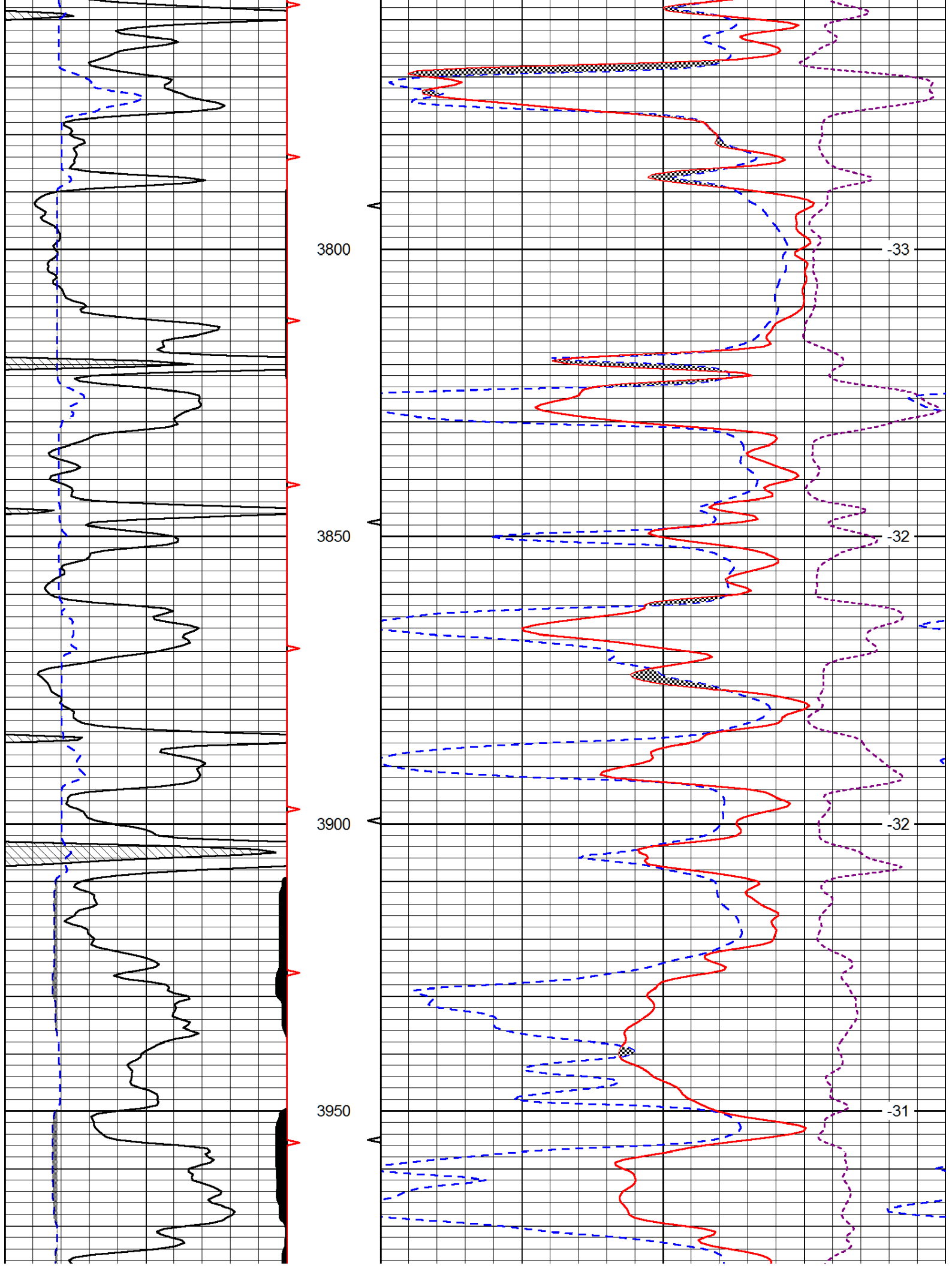


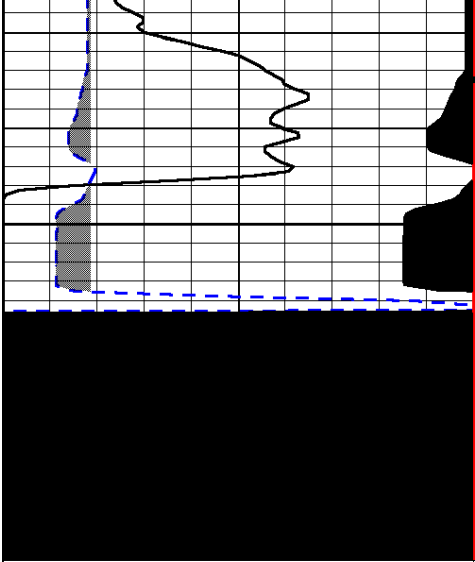




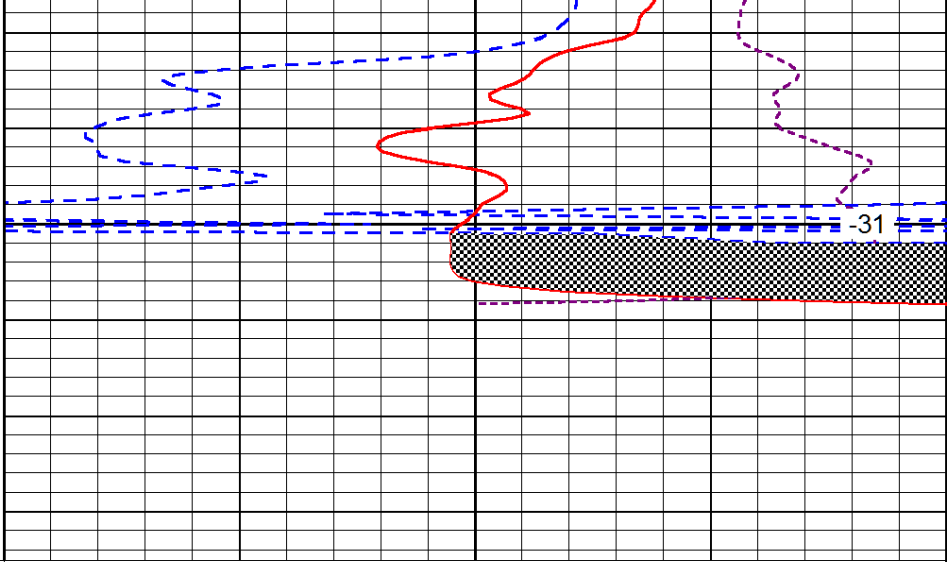








4000



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

30	CNPOR (pu)	-10
30	Compensated Density (2.71 ma) (pu)	-10
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25
	LSPD (ft/min)	