



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-023-21,414-00-00

Company Murfin Drilling Company, Inc.

Well Sowers No. 1-19

Field Wildcat

County Cheyenne

State Kansas

Location

330' FSL & 1000' FEL

Other Services
DIL
MEL/BHCS

Sec: 19

Twp: 1S

Rge: 37W

Elevation

Permanent Datum

Ground Level

Elevation 3199

Log Measured From

Kelly Bushing

11 Ft. Above Perm. Datum

K.B. 3210

D.F.

G.L. 3199

Drilling Measured From

Kelly Bushing

Date

12/16/14

Run Number

One

Type Log

CNL / CDL

Depth Driller

4770

Depth Logger

4772

Bottom Logged Interval

4743

Top Logged Interval

3500

Type Fluid In Hole

Chemical

Salinity, PPM CL

700

Density

9.3

Level

Full

Max. Rec. Temp. F

124

Operating Rig Time

5 Hours

Equipment -- Location

10 Hays

Recorded By

J. Henrickson

Witnessed By

Chuck Schmalz

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

From

To

One

12.25

00

225

8.625

23#

00

225

Two

7.875

225

TD

<<< 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

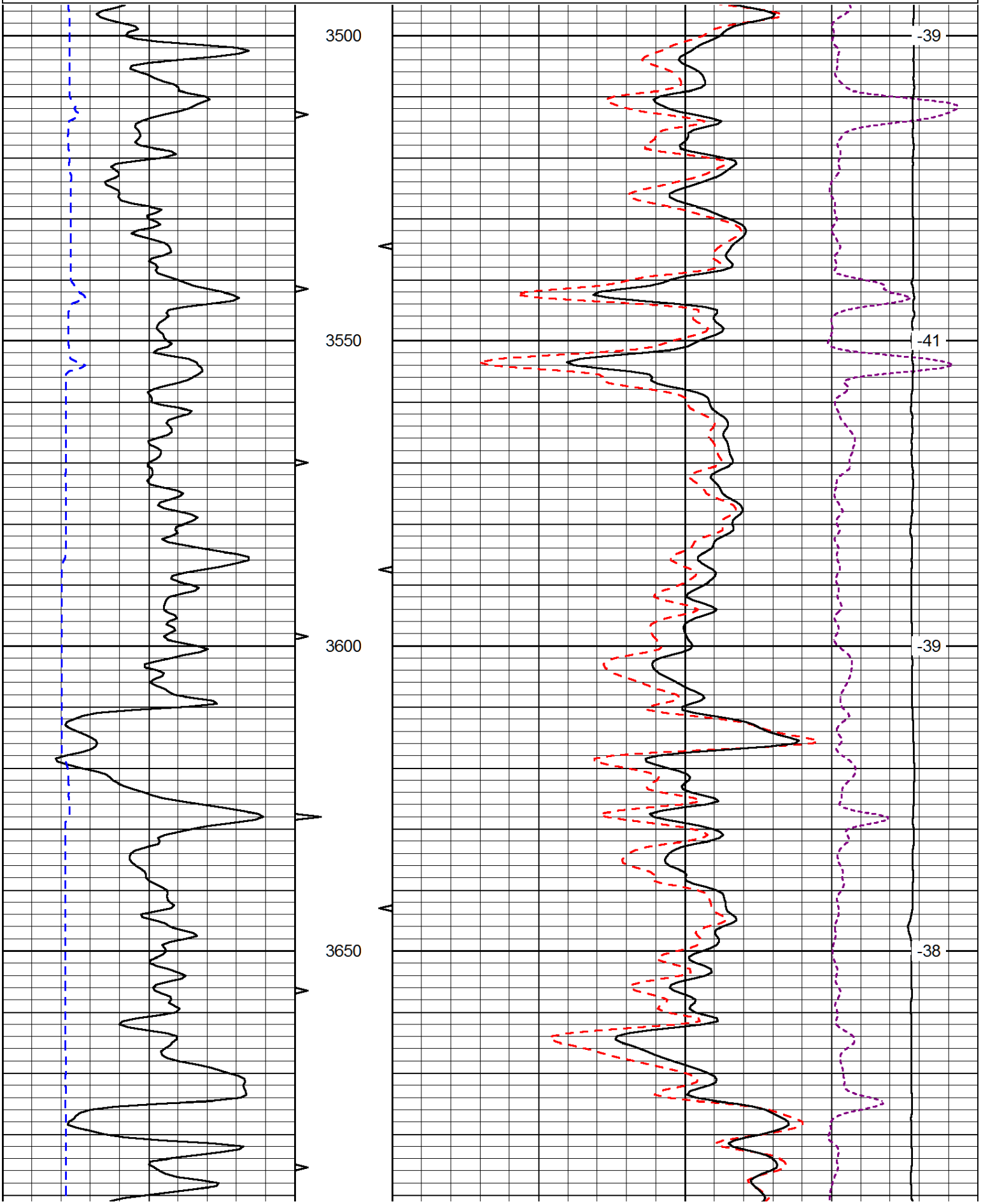
Thank you for using Log-Tech, Inc.
(785) 625-3858

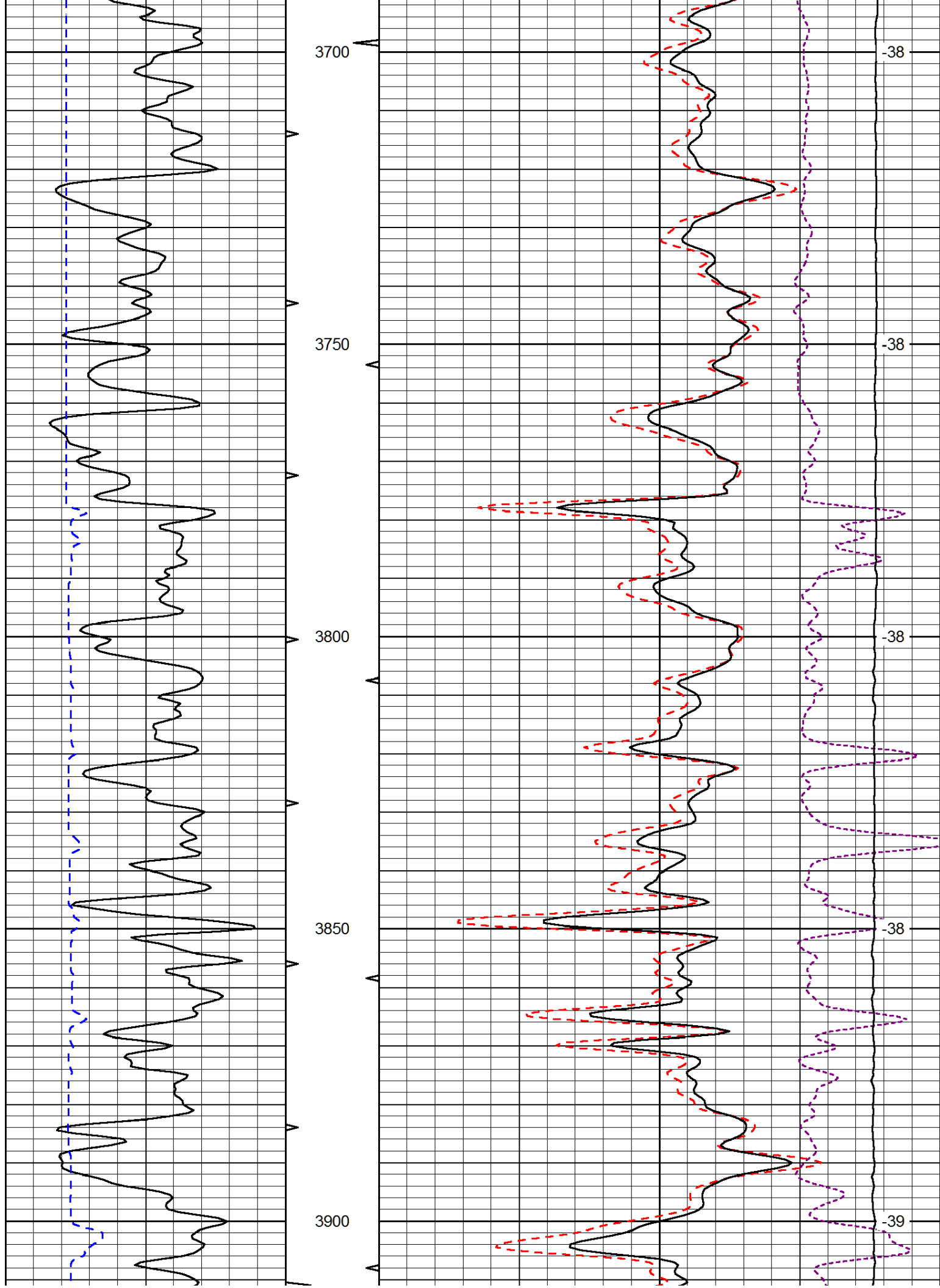
Bird City Kansas
North to AA Rd, 1 3/4 East, North Into

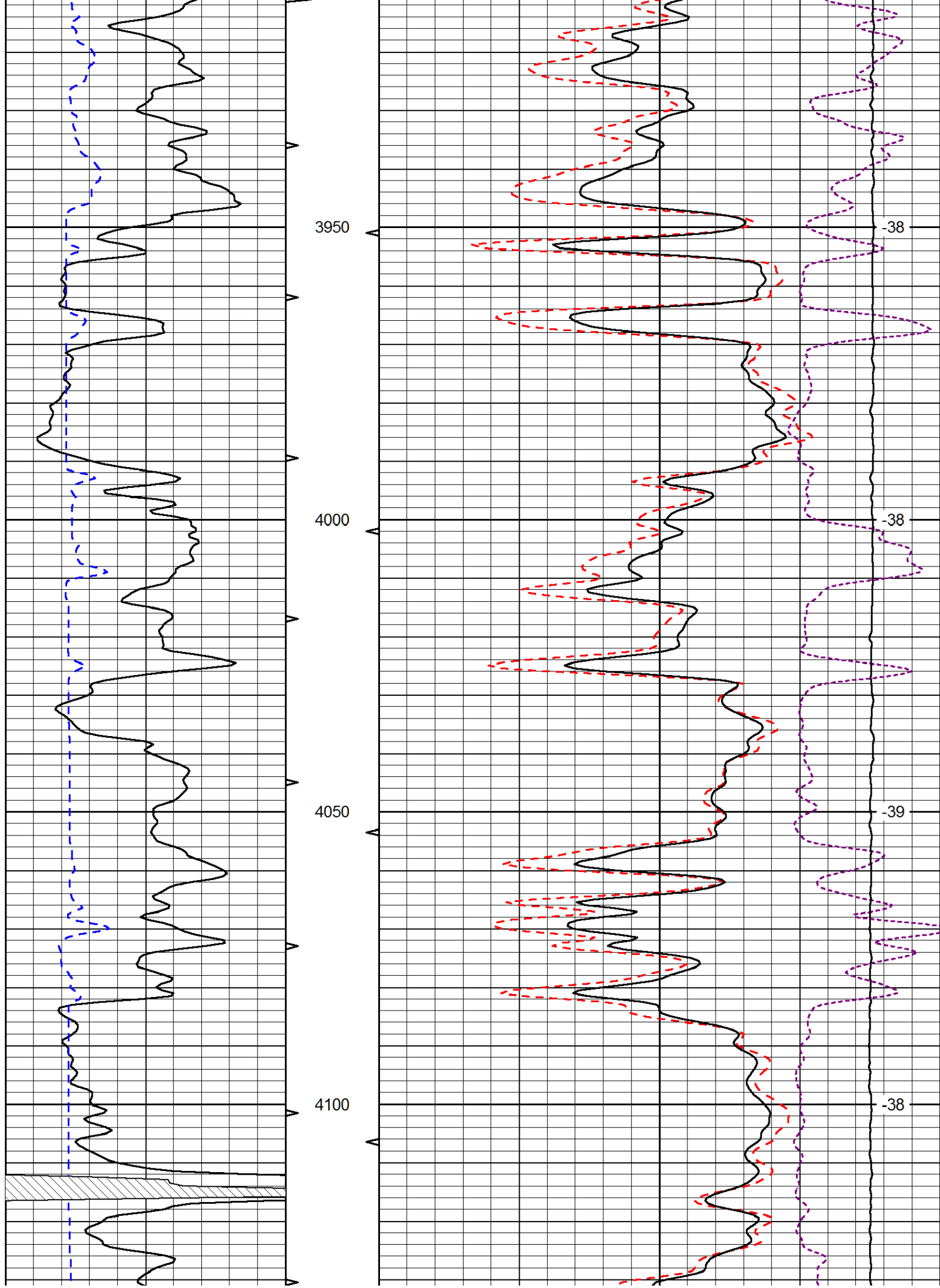
Database File: murfin_sowers_1_19hd.db
Dataset Pathname: DIL/mrfstkml2
Presentation Format: cdl
Dataset Creation: Tue Dec 16 03:58:58 2014
Charted by: Depth in Feet scaled 1:240

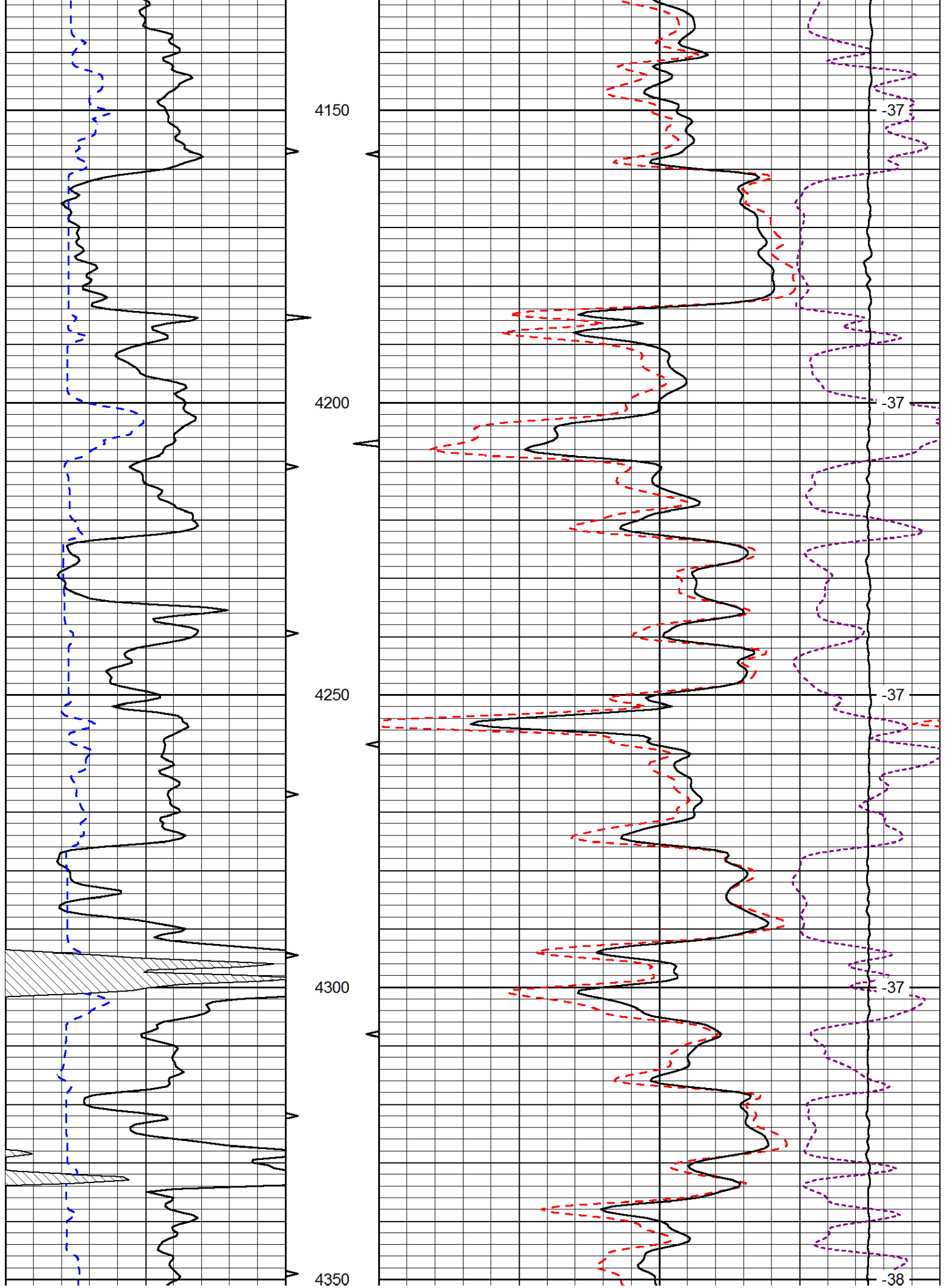
0	Gamma Ray	150
6	Caliper (GAPI)	16

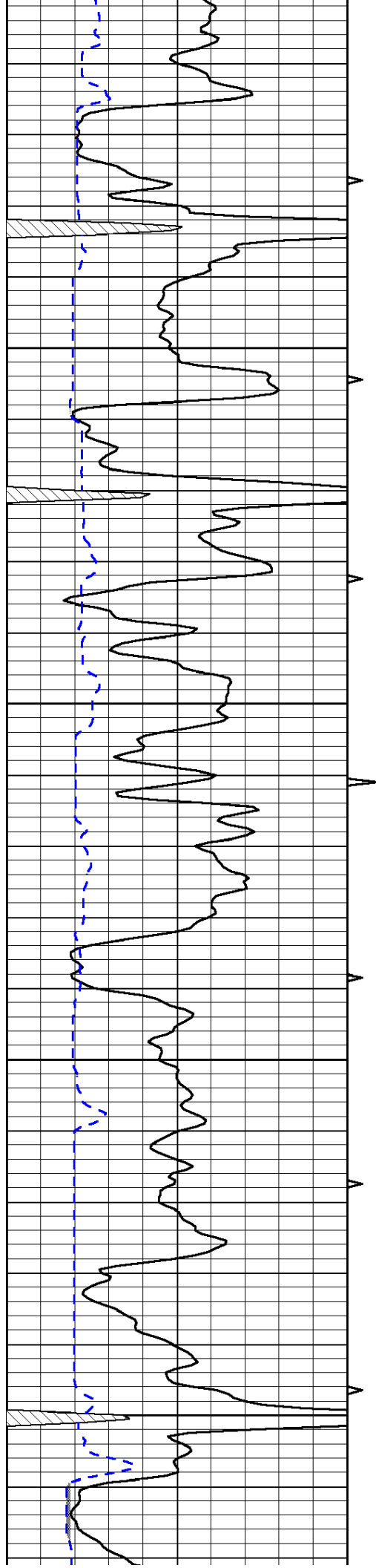
30	Compensated Density	-10
2	Bulk Density	3
15000	Line Tension	0
-0.25	Correction	0.25
LSPD		









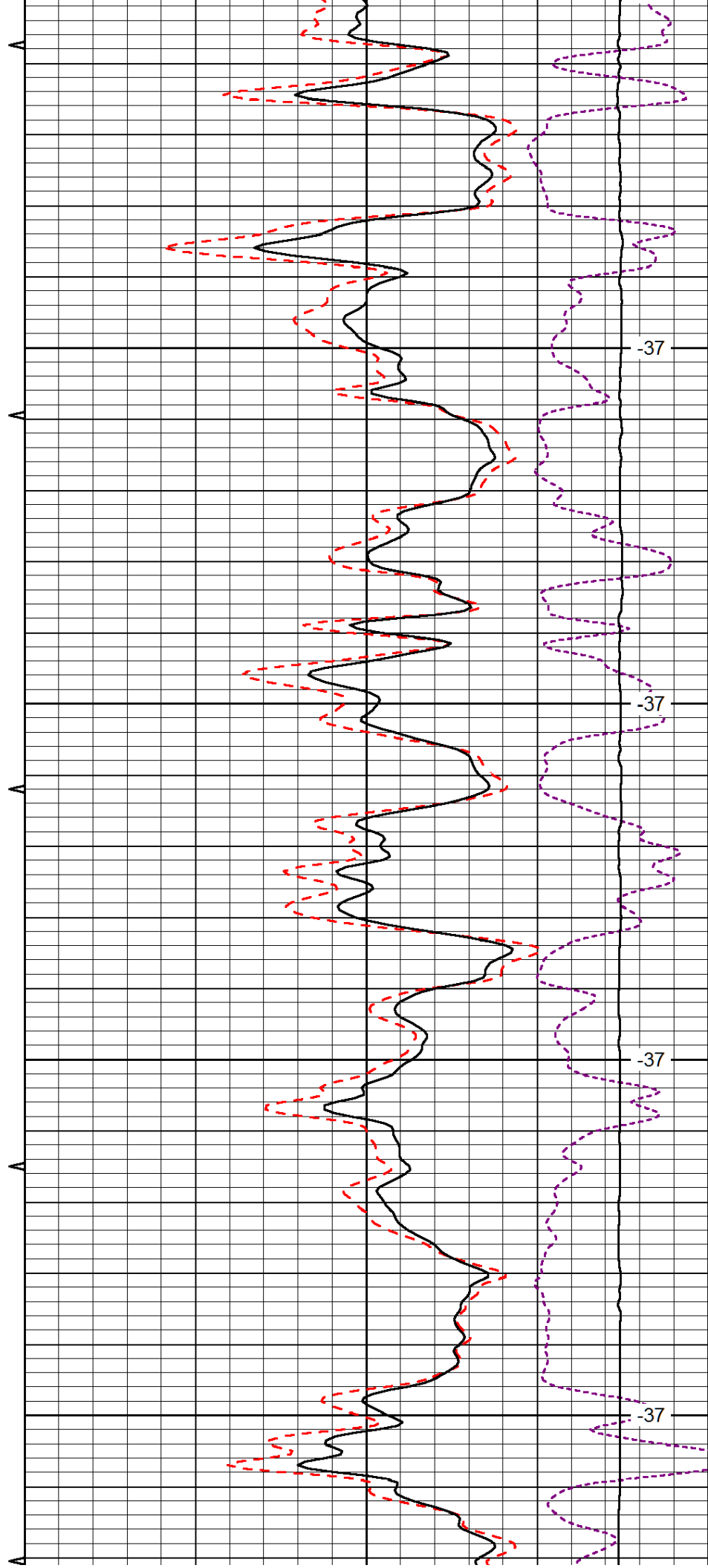


4400

4450

4500

4550

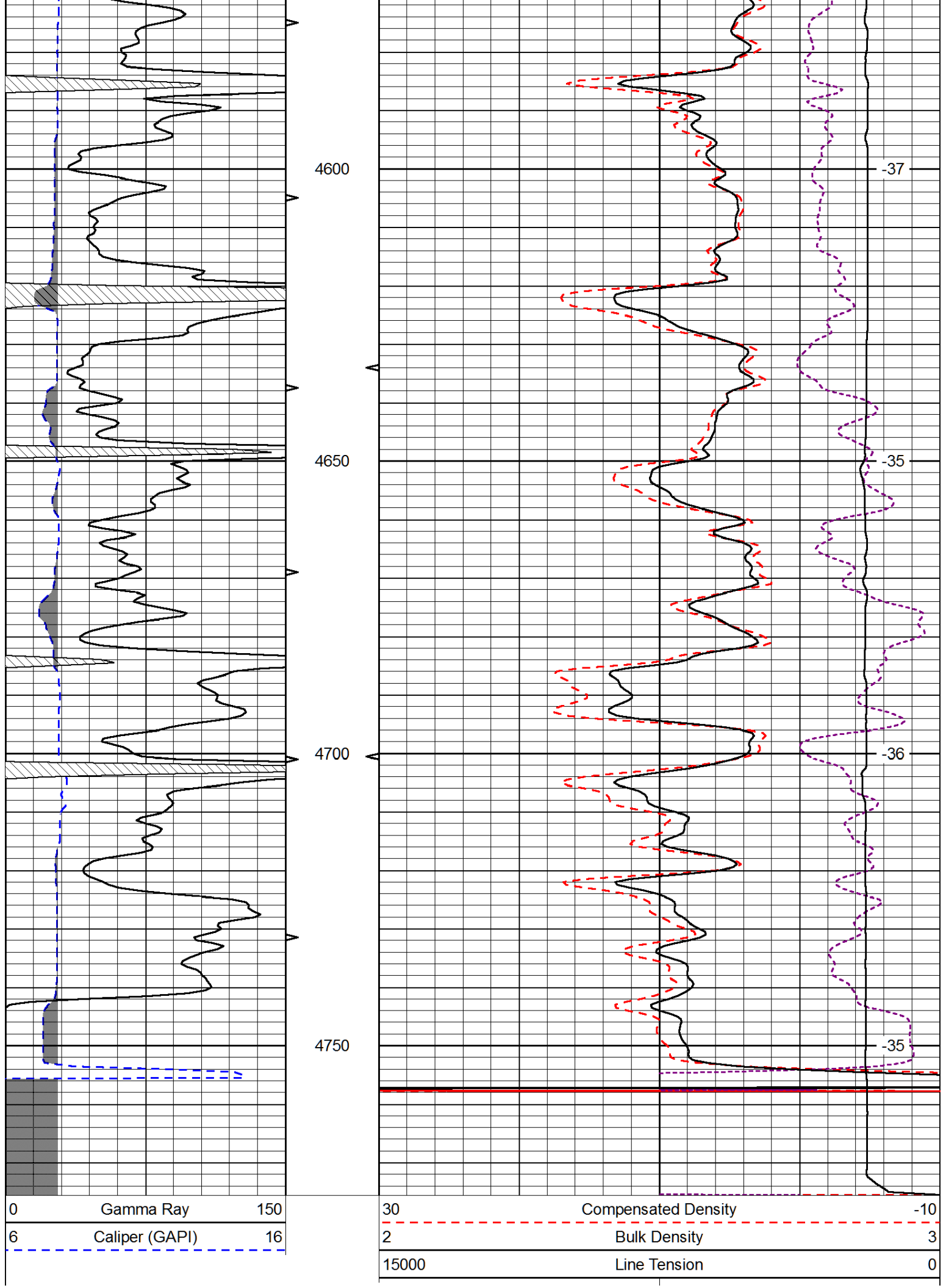


-37

-37

-37

-37



Database File:

murfin_sowers_1_19hd.db

Dataset Pathname:

DIL/mrfstkml2

Presentation Format:

cnclspec

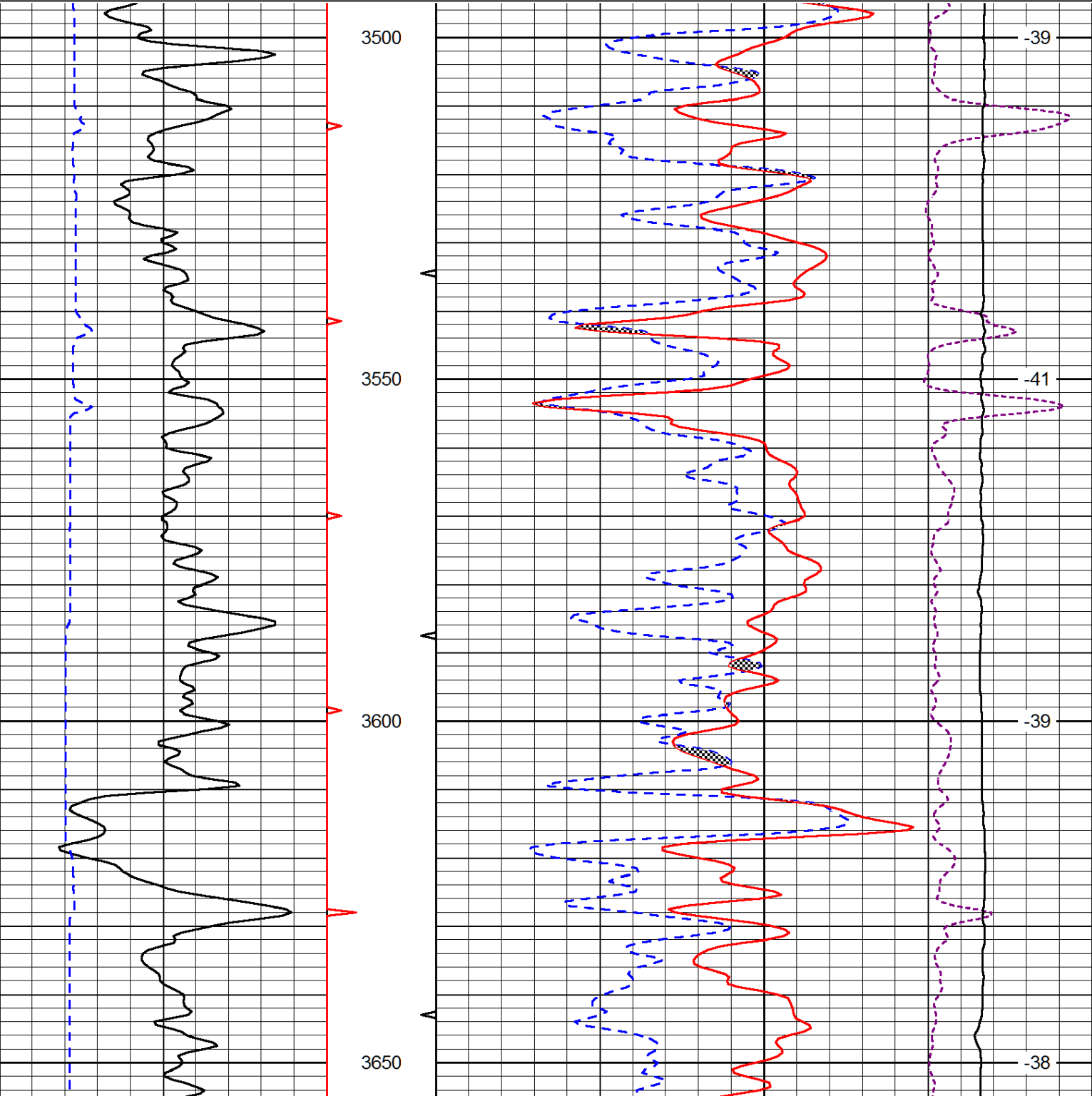
Dataset Creation:

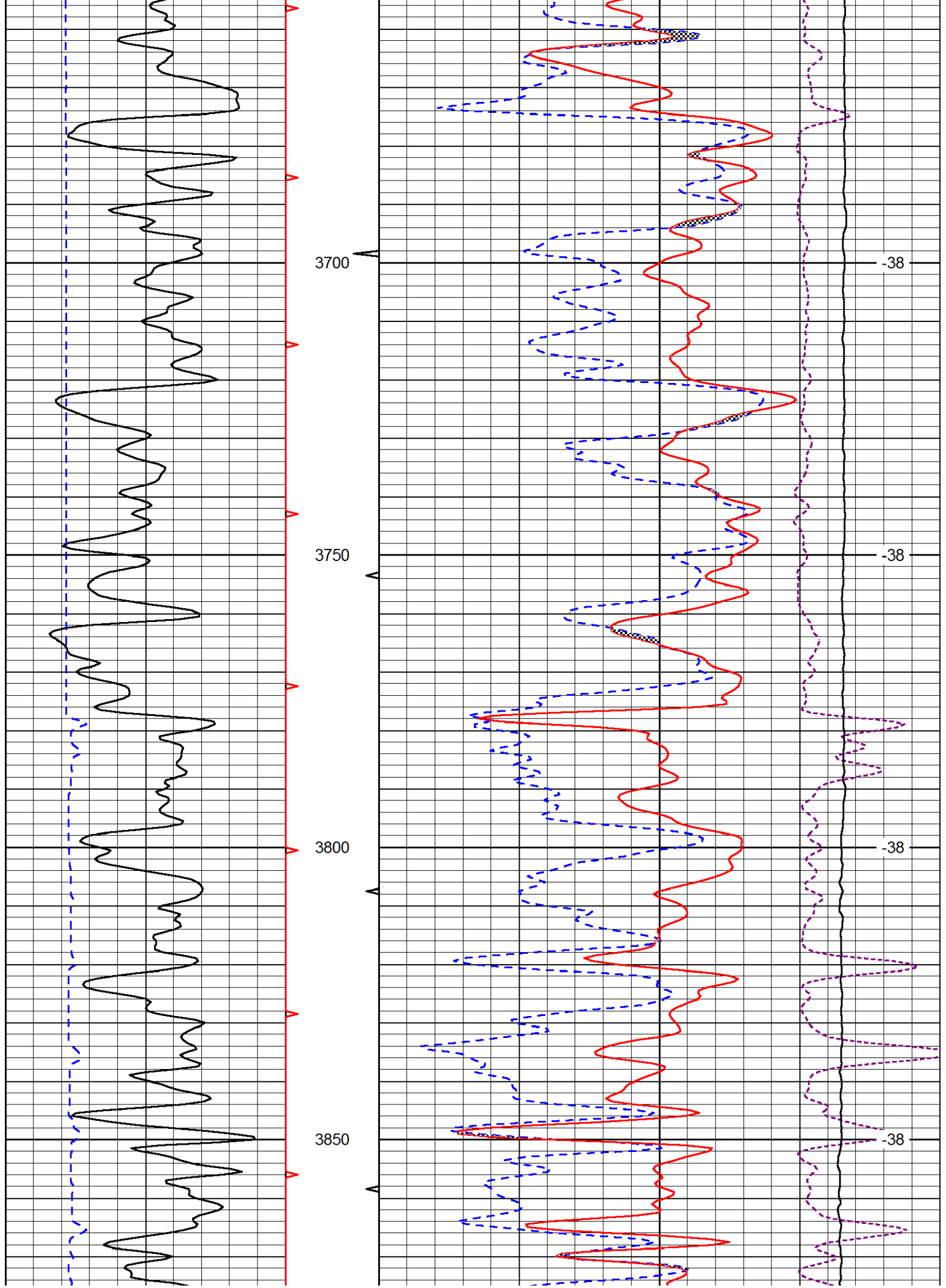
Tue Dec 16 03:58:58 2014

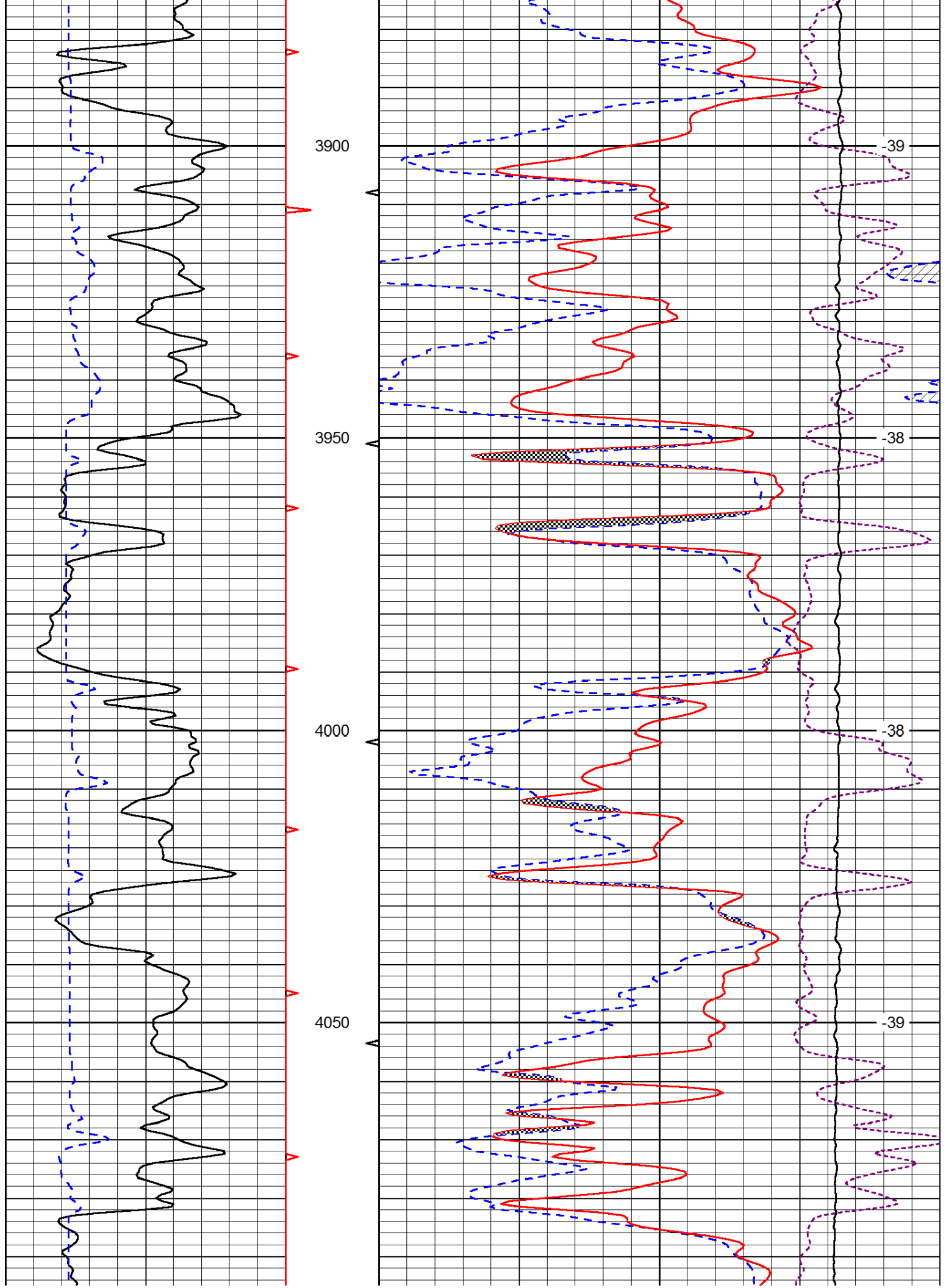
Charted by:

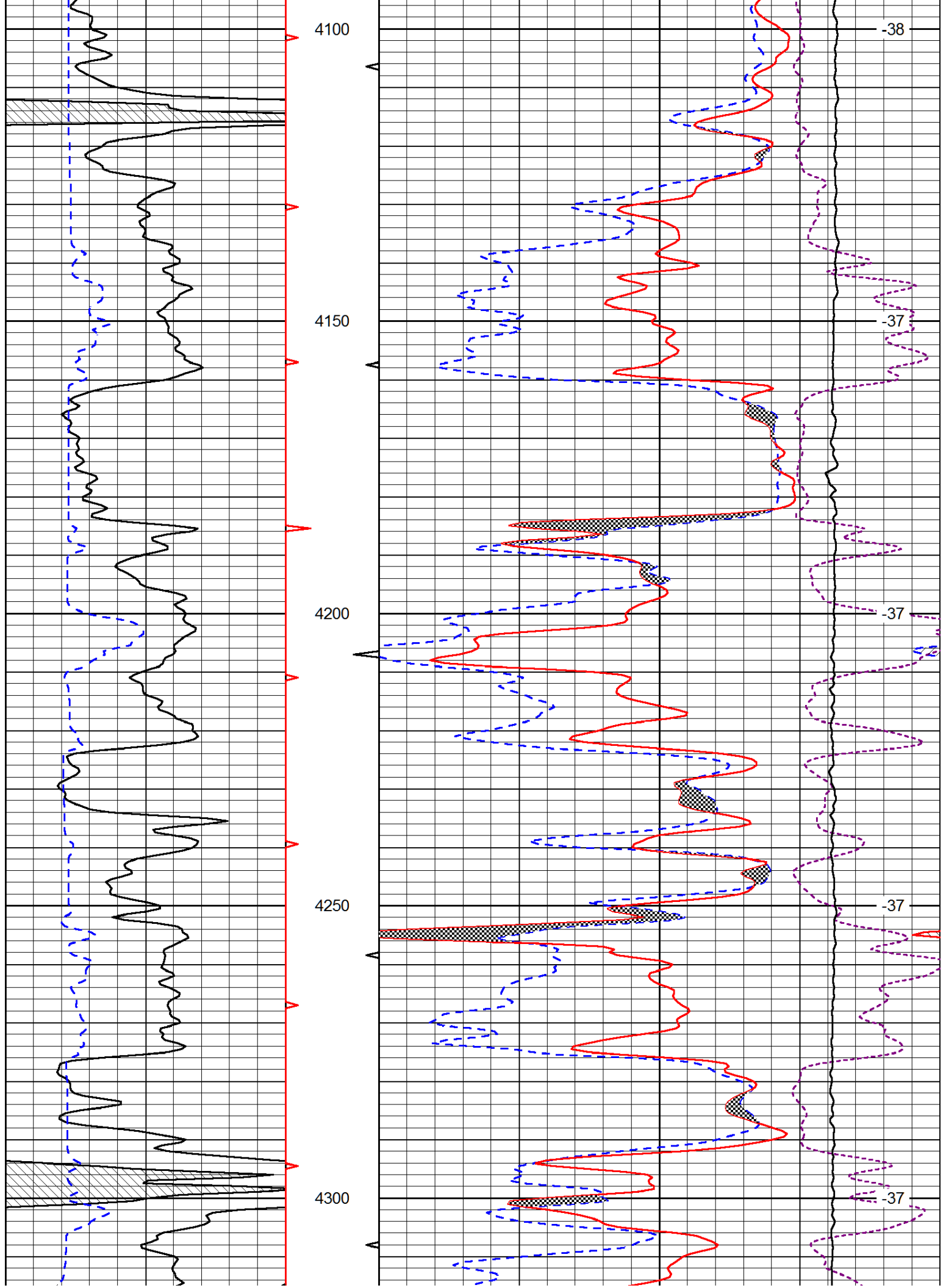
Depth in Feet scaled 1:240

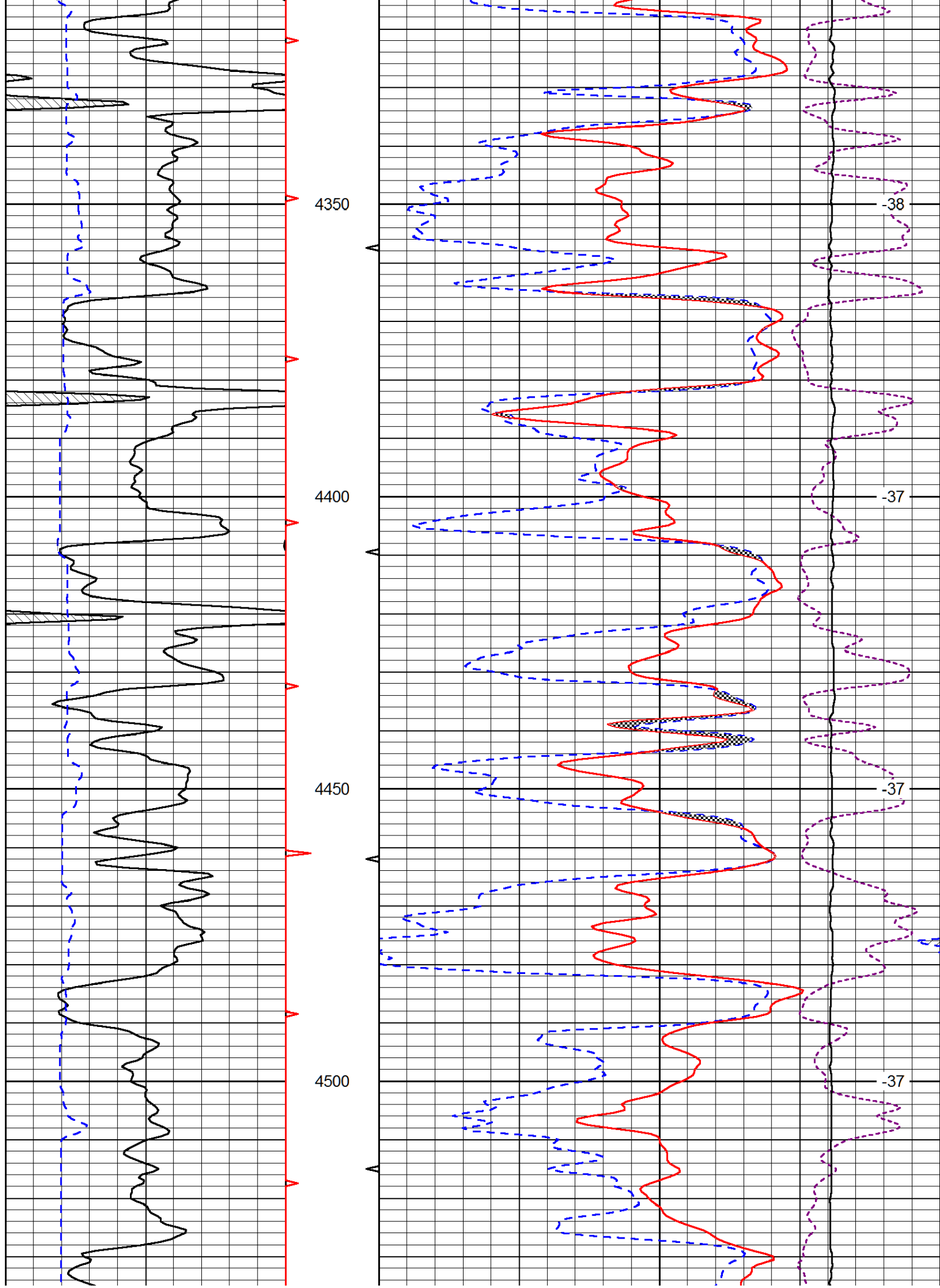
0	Gamma Ray	150	30	CNLS	-10
6	Caliper (GAPI)	16	30	Compensated Density (2.71 ma)	-10
			10000	Line Tension	0
			-0.25 Correction 0.25 LSPD		

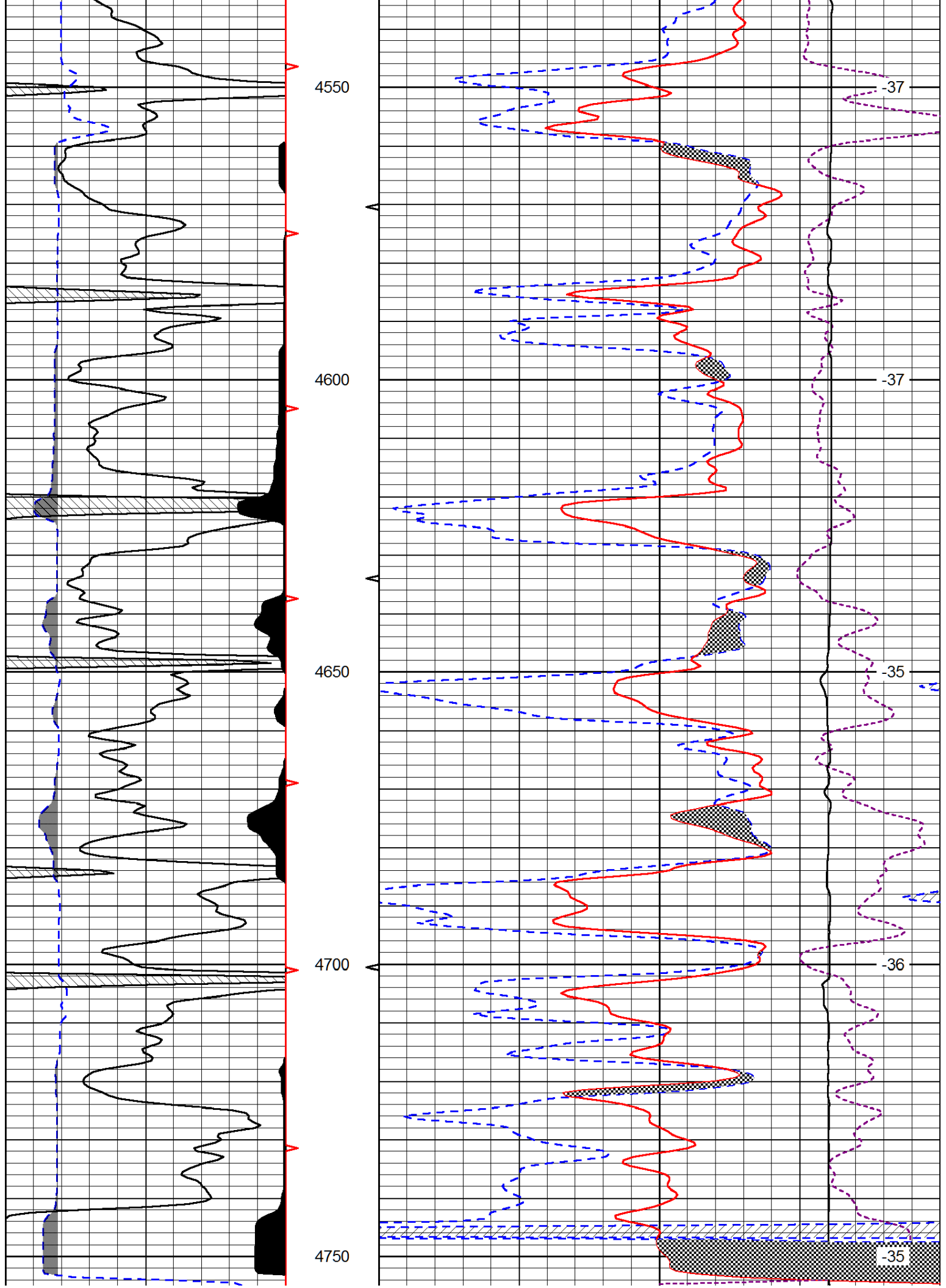






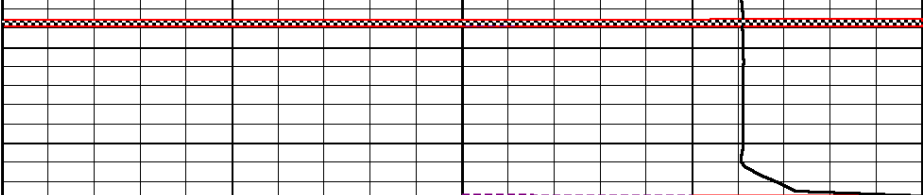








0	Gamma Ray	150
6	Caliper (GAPI)	16



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