



# Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-101-22,421-00-00

Company Larson Engineering, Inc.

Well W/R Unit No. 1 - 27

Field Wildcat

County Lane

State Kansas

Location

NE NE SE NE  
1485' FNL & 1' FEL

Other Services  
DIL/MEL

Sec: 27

Twp: 18 S

Rge: 29 W

Permanent Datum

Log Measured From

Drilling Measured From

Ground Level

Kelly Bushing

Kelly Bushing

7

Ft. Above Perm. Datum

Elevation 2801

K.B. 2808

D.F. 2801

G.L. 2801

Date

2/15/2013

Run Number

One

Type Log

CNL / CDL

Depth Driller

4645

Depth Logger

4649

Bottom Logged Interval

4628

Top Logged Interval

3600

Type Fluid In Hole

Chemical

Salinity, PPM CL

3000

Density

9.3

Level

Full

Max. Rec. Temp. F

122

Operating Rig Time

4 1/2 Hours

Equipment -- Location

108 Hays

Recorded By

D. Martin

Witnessed By

Vern Schrag

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

One

12.25

00

281

8.625

23#

00

281

Two

7.875

281

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

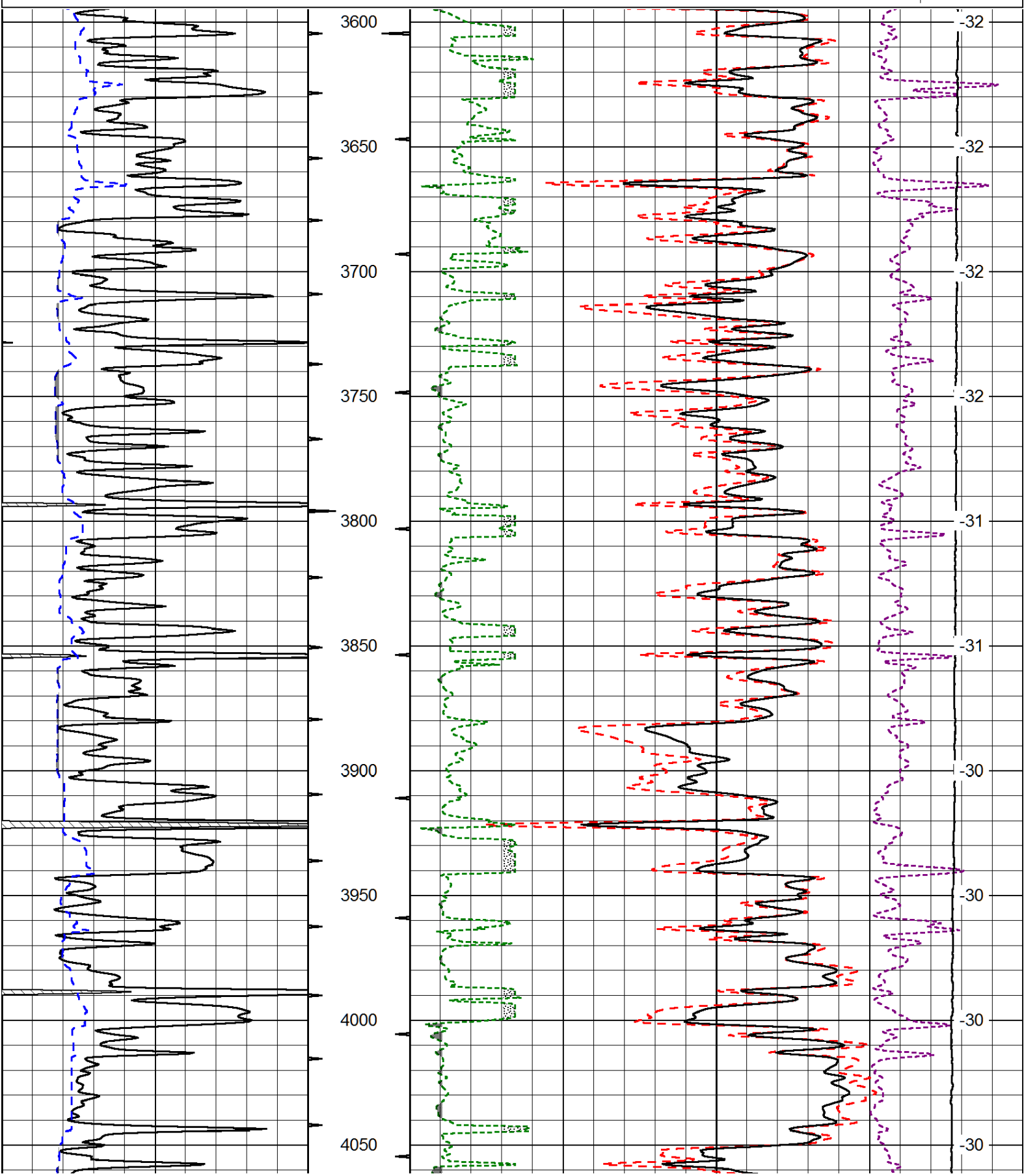
Dighton, KS  
2 S to 130 Rd., 2 W, N Into

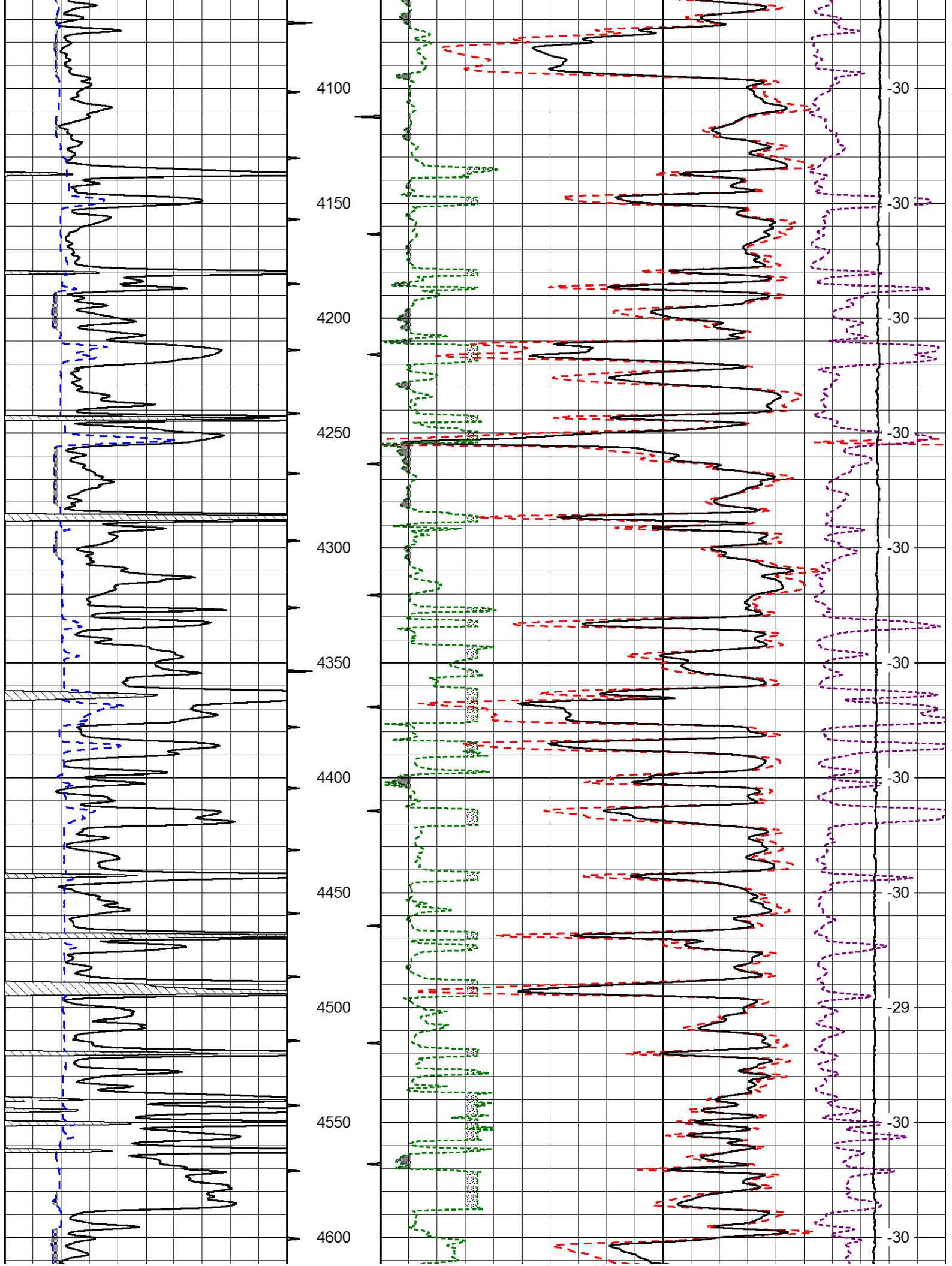
Database File: larshd.db  
Dataset Pathname: DIL/larstk  
Presentation Format: cdl  
Dataset Creation: Fri Feb 15 23:24:39 2013  
Charted by: Depth in Feet scaled 1:600

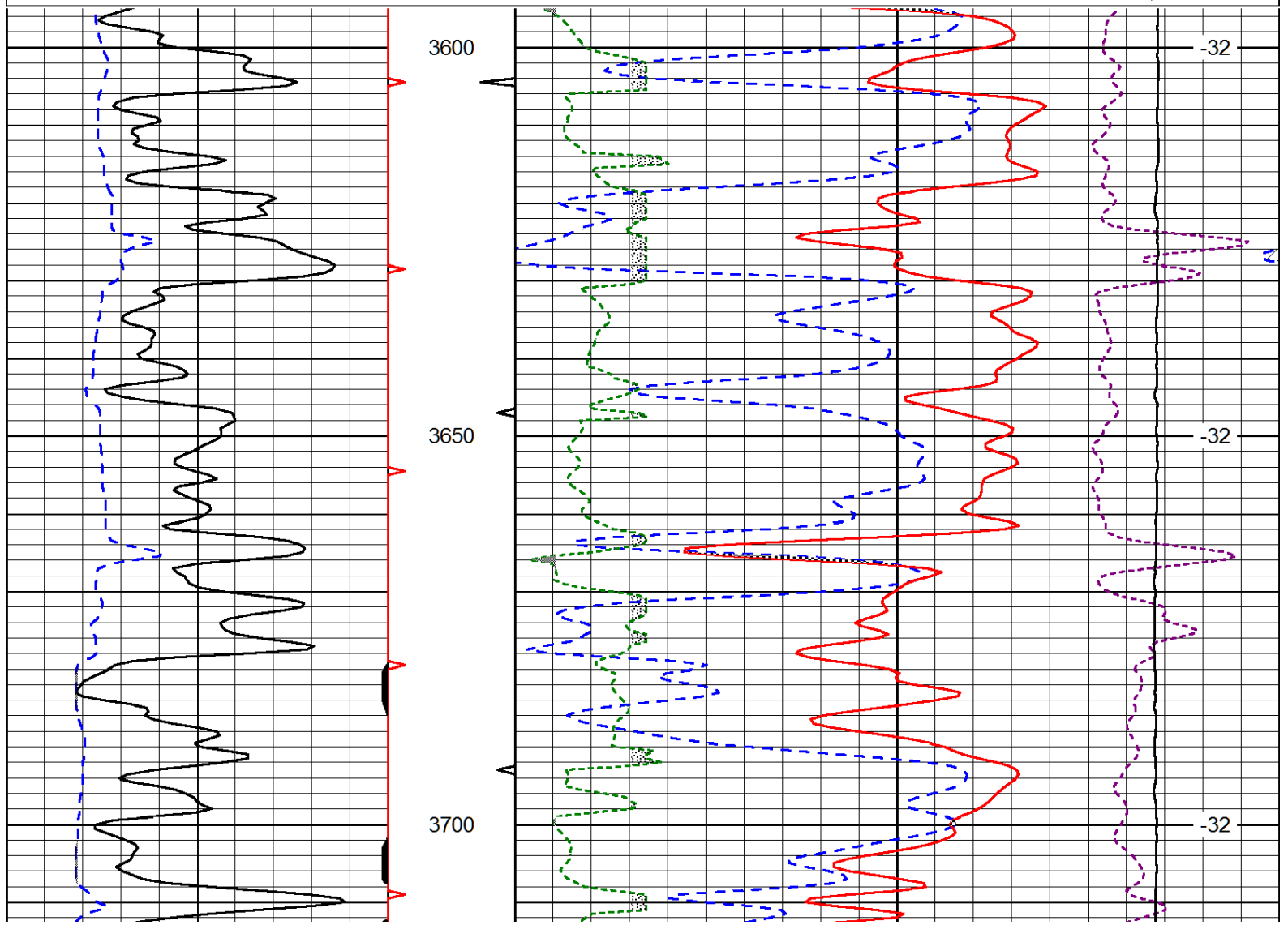
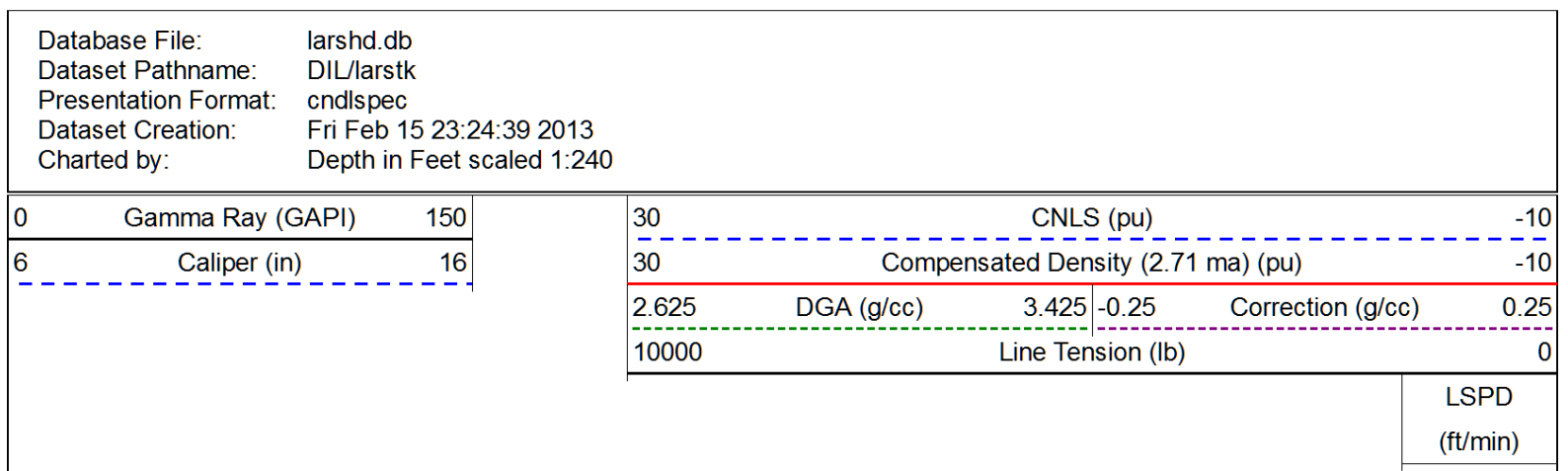
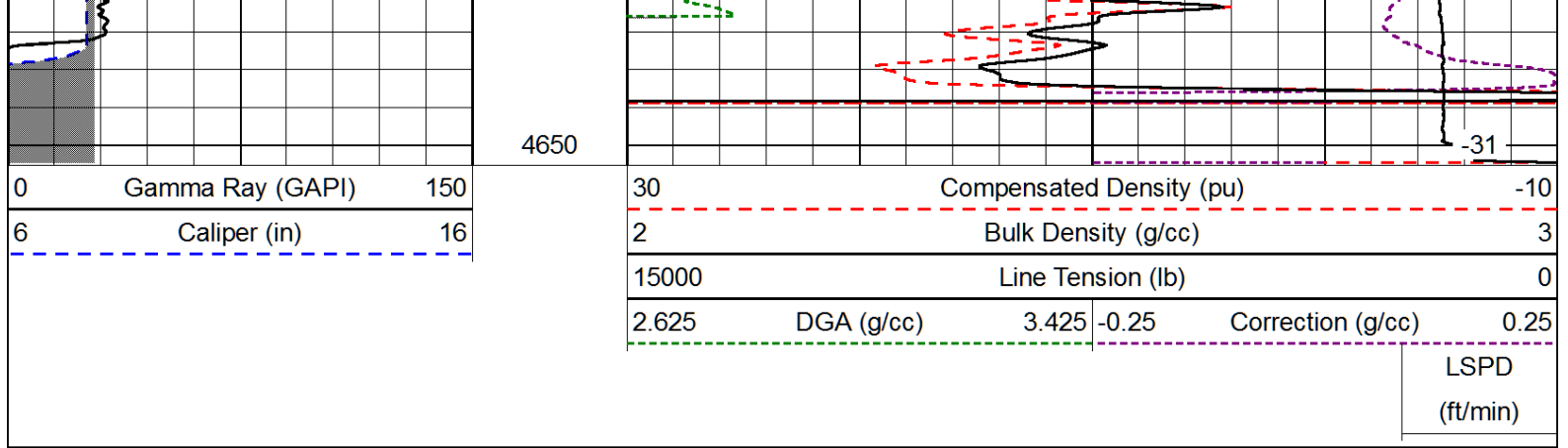
|   |                  |     |
|---|------------------|-----|
| 0 | Gamma Ray (GAPI) | 150 |
| 6 | Caliper (in)     | 16  |

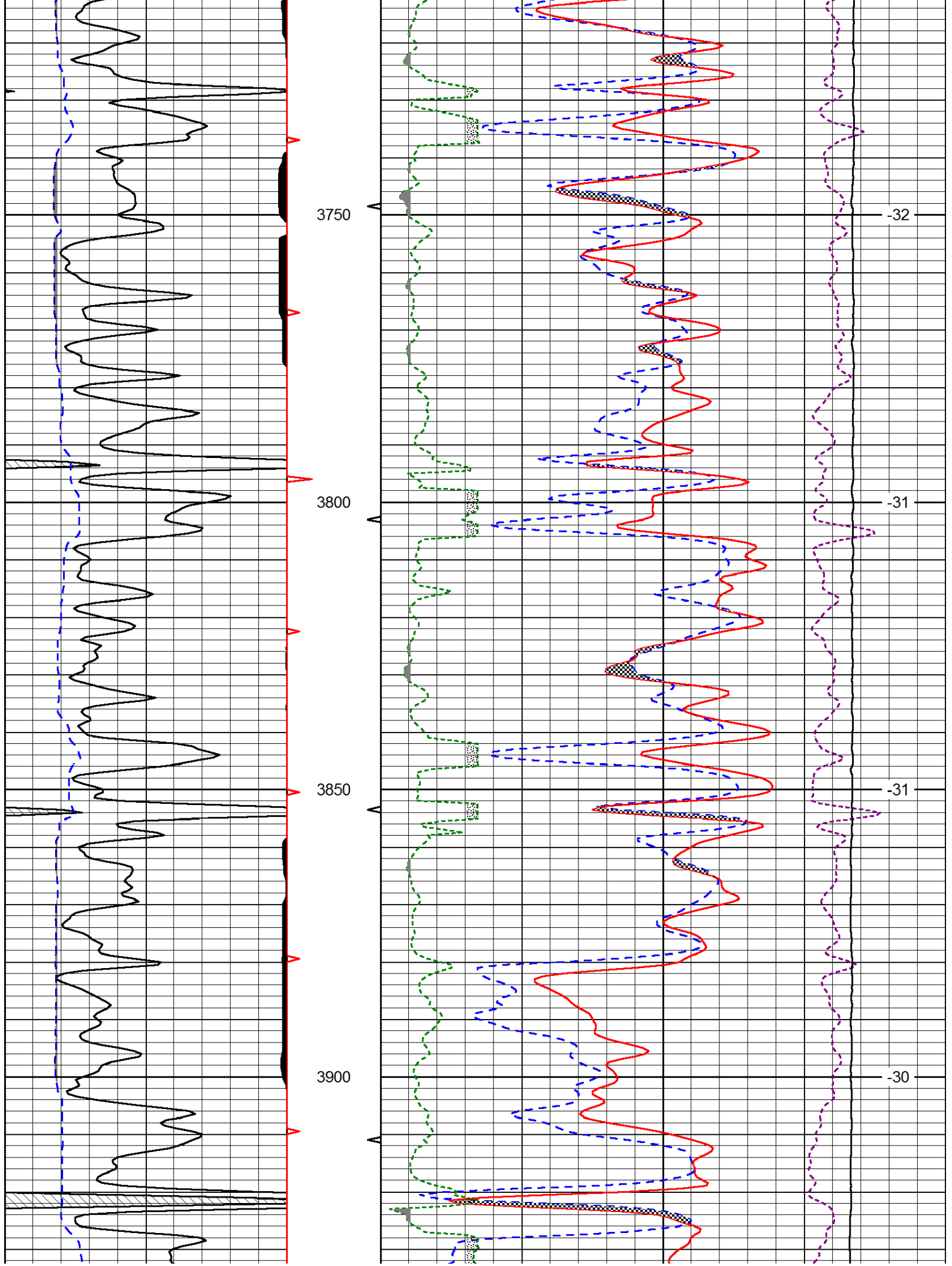
|       |                          |       |       |
|-------|--------------------------|-------|-------|
| 30    | Compensated Density (pu) |       | -10   |
| 2     | Bulk Density (g/cc)      |       | 3     |
| 15000 | Line Tension (lb)        |       | 0     |
| 2.625 | DGA (g/cc)               | 3.425 | -0.25 |
|       | Correction (g/cc)        |       | 0.25  |

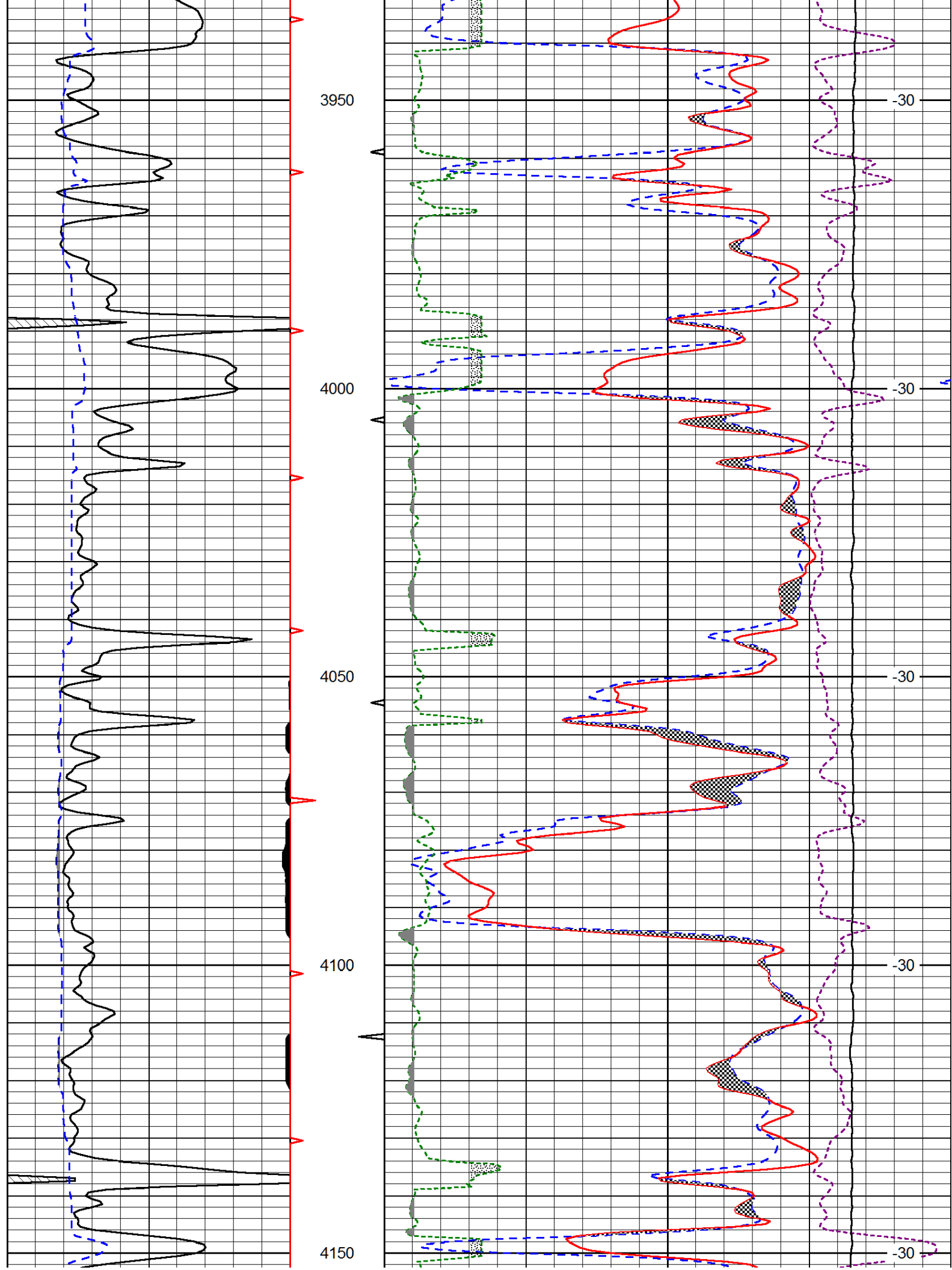
LSPD  
(ft/min)

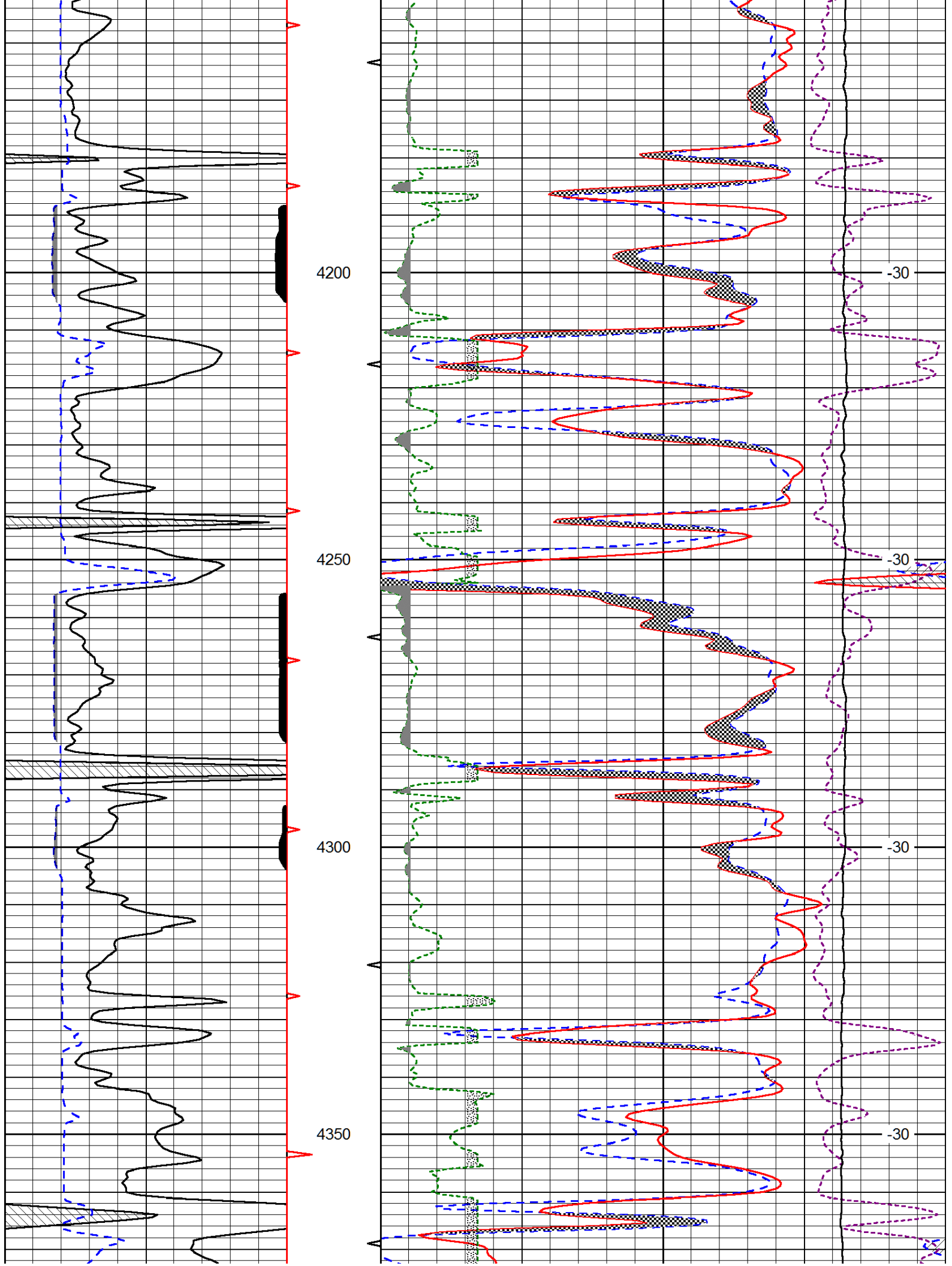


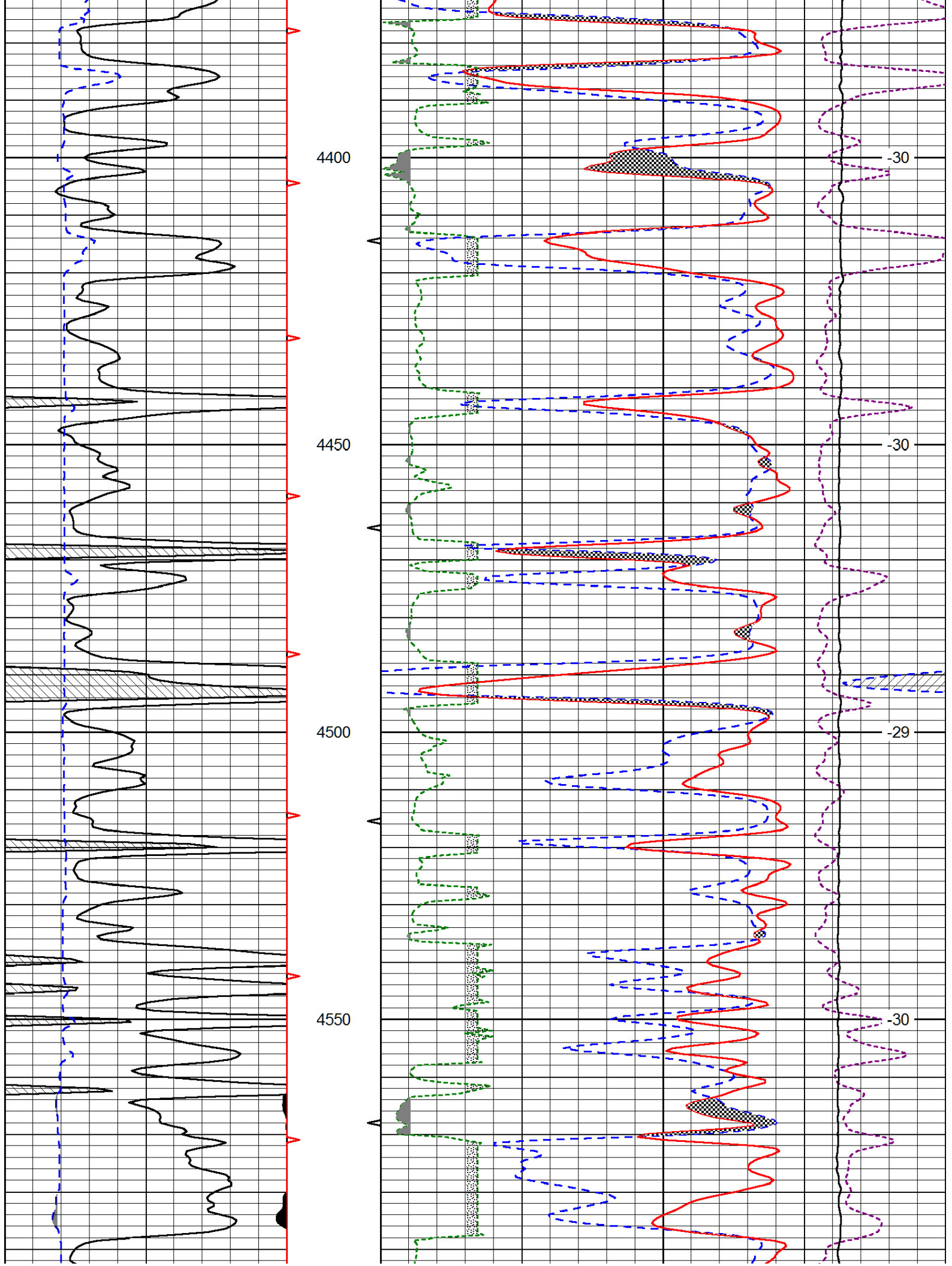


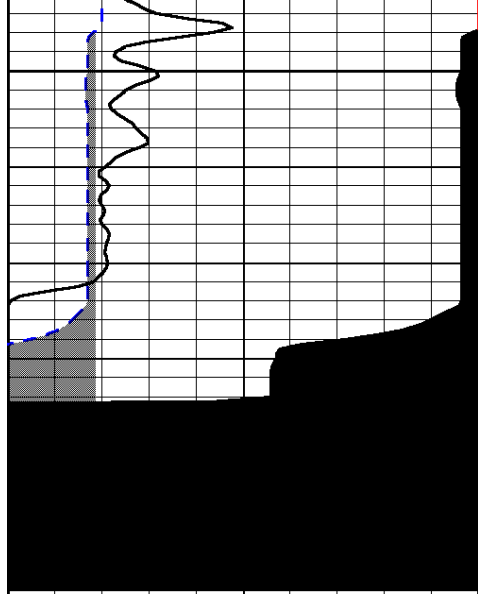










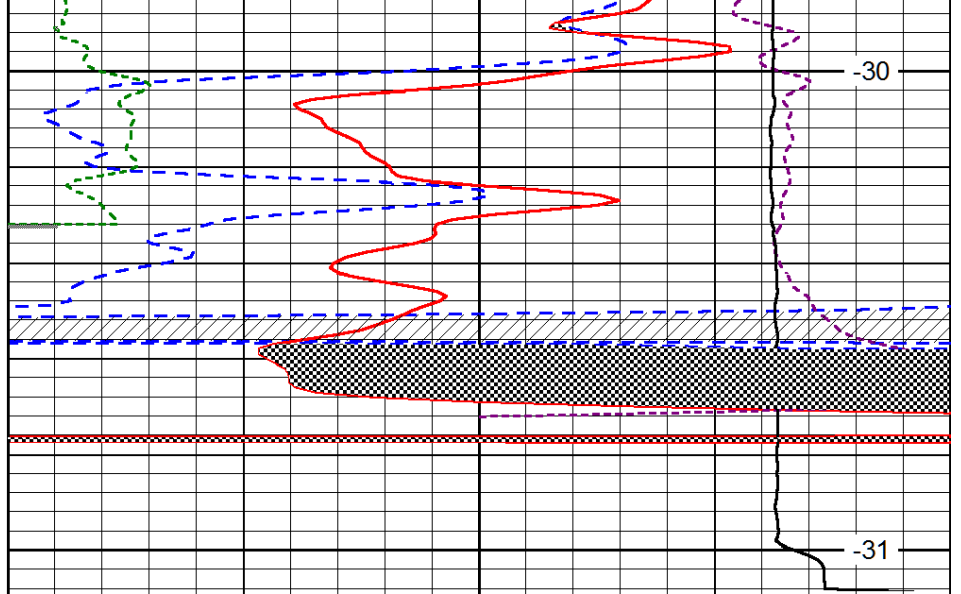


4600

4650

0 Gamma Ray (GAPI) 150

6 Caliper (in) 16



-30

-31

30 CNLS (pu) -10

30 Compensated Density (2.71 ma) (pu) -10

2.625 DGA (g/cc) 3.425 -0.25 Correction (g/cc) 0.25

10000 Line Tension (lb) 0

LSPD  
(ft/min)