



Pioneer Energy Services

Dual Compensated Porosity Log

15-145-21,747-00-00

API No.

Company **H&B Petroleum Corporation**
 Well **Ashworth #1**
 Field **Hurray**
 County **Pawnee** State **Kansas**

Location **1615' FSL & 330' FEL**
 Sec: **3** Twp: **22S** Rge: **15W**

Other Services
 DIL
 MEL/BHCS

Permanent Datum **Ground Level** Elevation **1973**
 Log Measured From **Kelly Bushing** **10 Ft. Above Perm. Datum**
 Drilling Measured From **Kelly Bushing**

Elevation
 K.B. 1983
 D.F. 1973
 G.L. 1973

| | |
|------------------------|--------------|
| Date | 1/23/2014 |
| Run Number | One |
| Type Log | CNL / CDL |
| Depth Driller | 4035 |
| Depth Logger | 4034 |
| Bottom Logged Interval | 4013 |
| Top Logged Interval | 3000 |
| Type Fluid In Hole | Chemical |
| Salinity, PPM CL | 5000 |
| Density | 9.1 |
| Level | Full |
| Max. Rec. Temp. F | 116 |
| Operating Rig Time | 5 Hours |
| Equipment -- Location | 15 Hays |
| Recorded By | D Kerr |
| Witnessed By | Jim Musgrove |

| Borehole Record | | Casing Record | |
|-----------------|-------------|---------------|-----------|
| Run No. | Bit From To | Size | Wgt. Wgt. |
| 1 | 12.25 00 | 8.625 | 24# |
| 2 | 7.875 962 | 4035 | |

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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

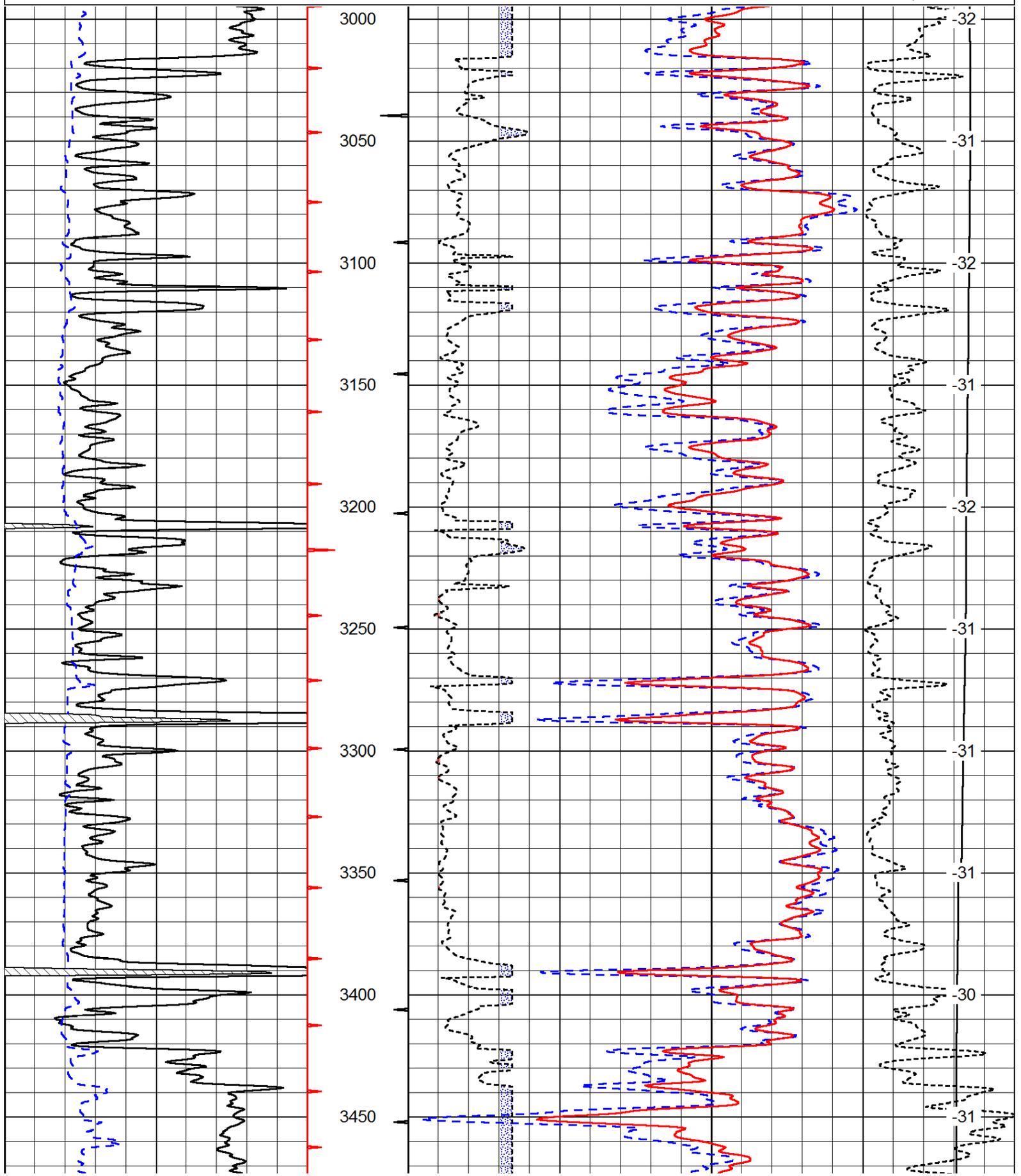
Thank you for using Pioneer Energy Services
 www.pioneerenergy.com
 785 625 3858

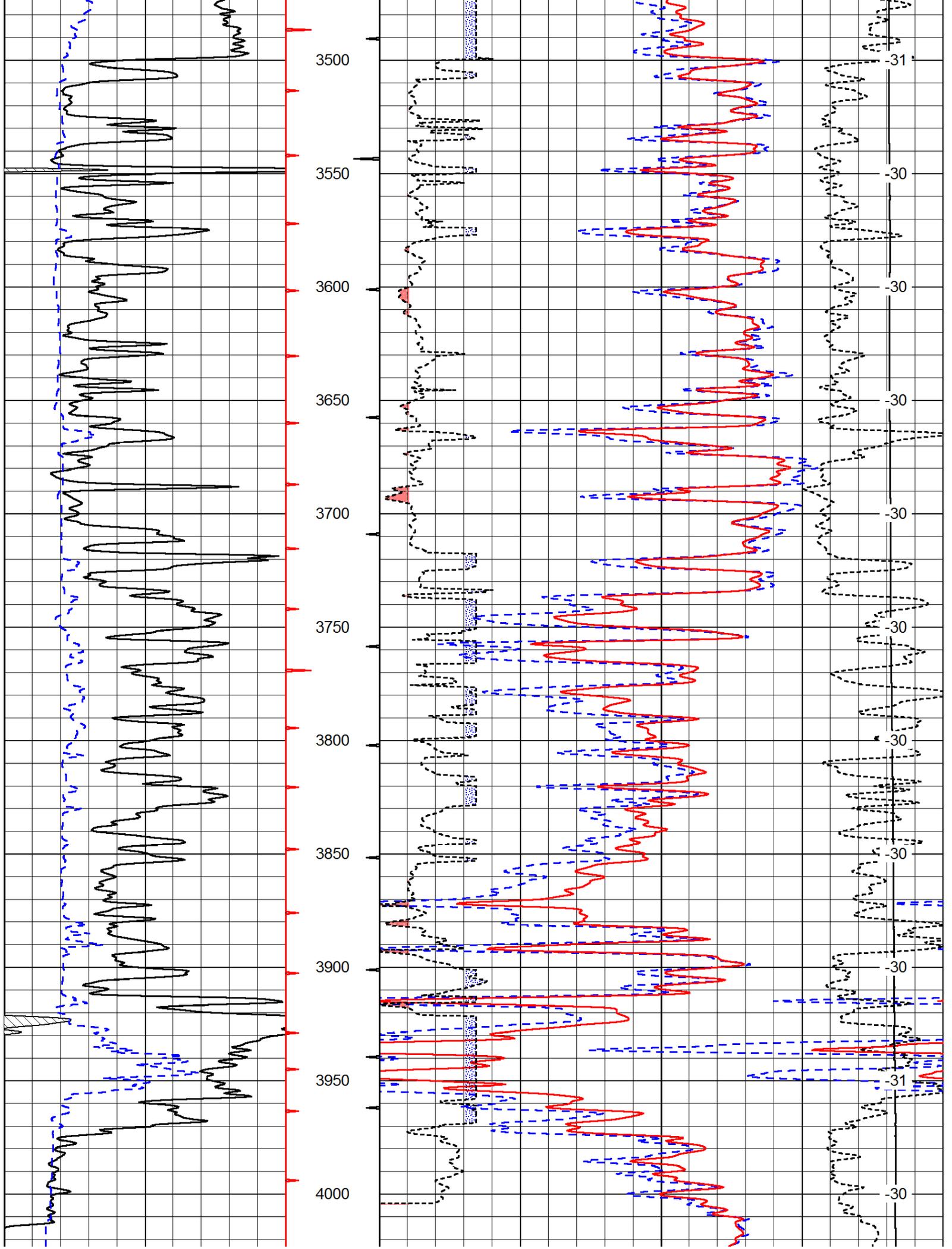
Larned KS, East on K-19 to 30 RD,
 1/2 North, West Into

Database File: c:\warrior\data\h&b_ashworth #1\h&b_ashworth_1hd.db
 Dataset Pathname: cpi/hbstk
 Presentation Format: cdl
 Dataset Creation: Thu Jan 23 09:01:03 2014
 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 | | | |

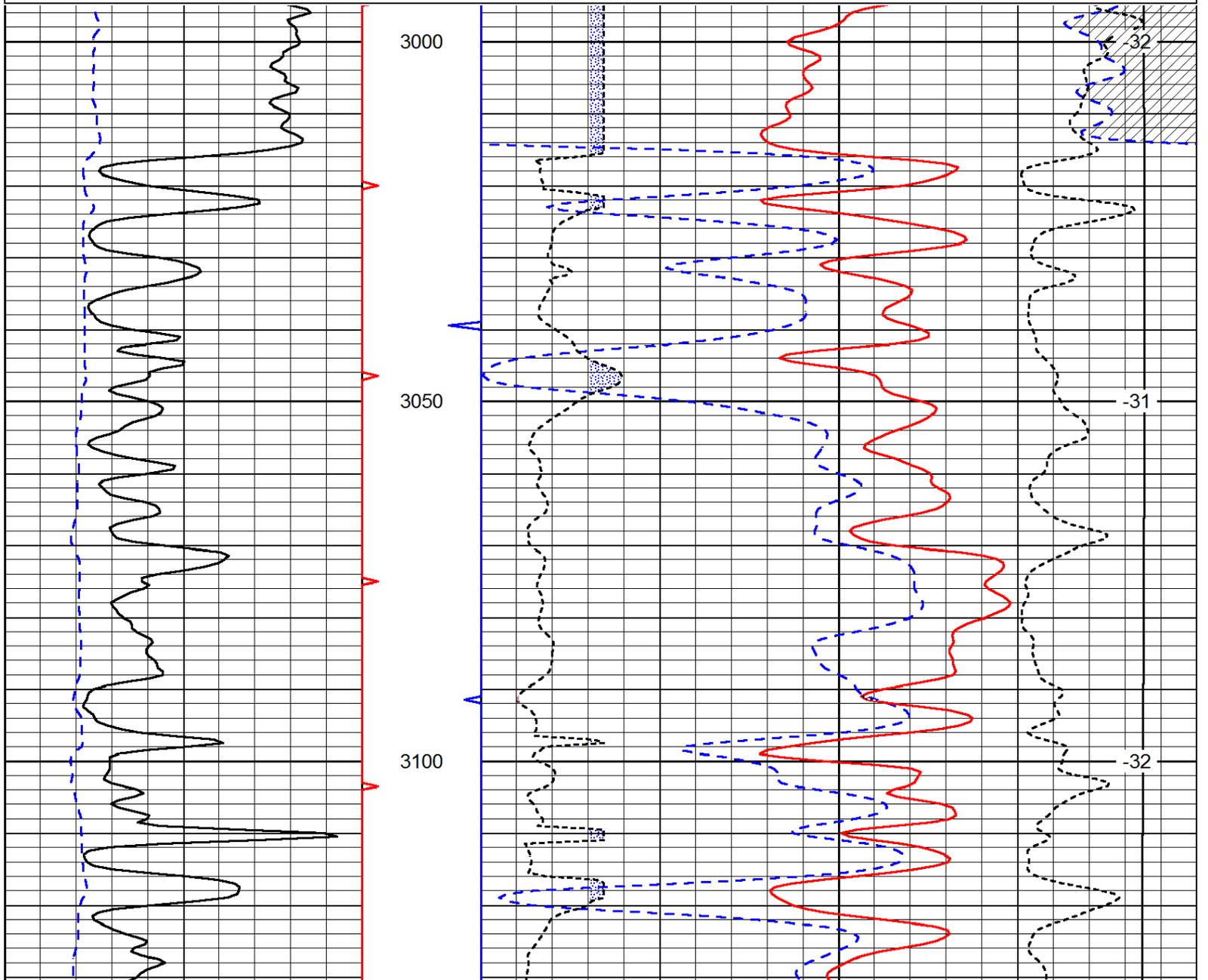


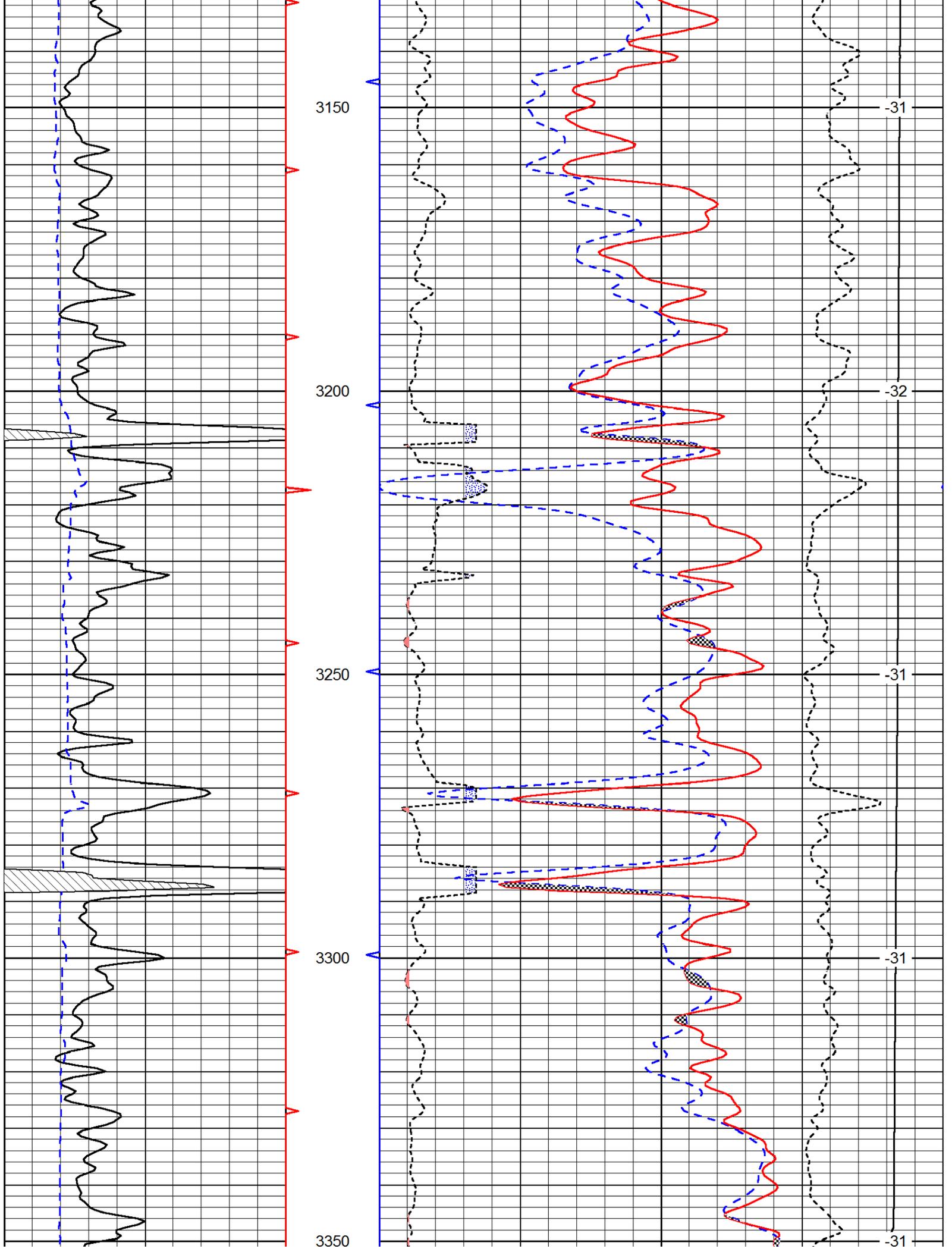


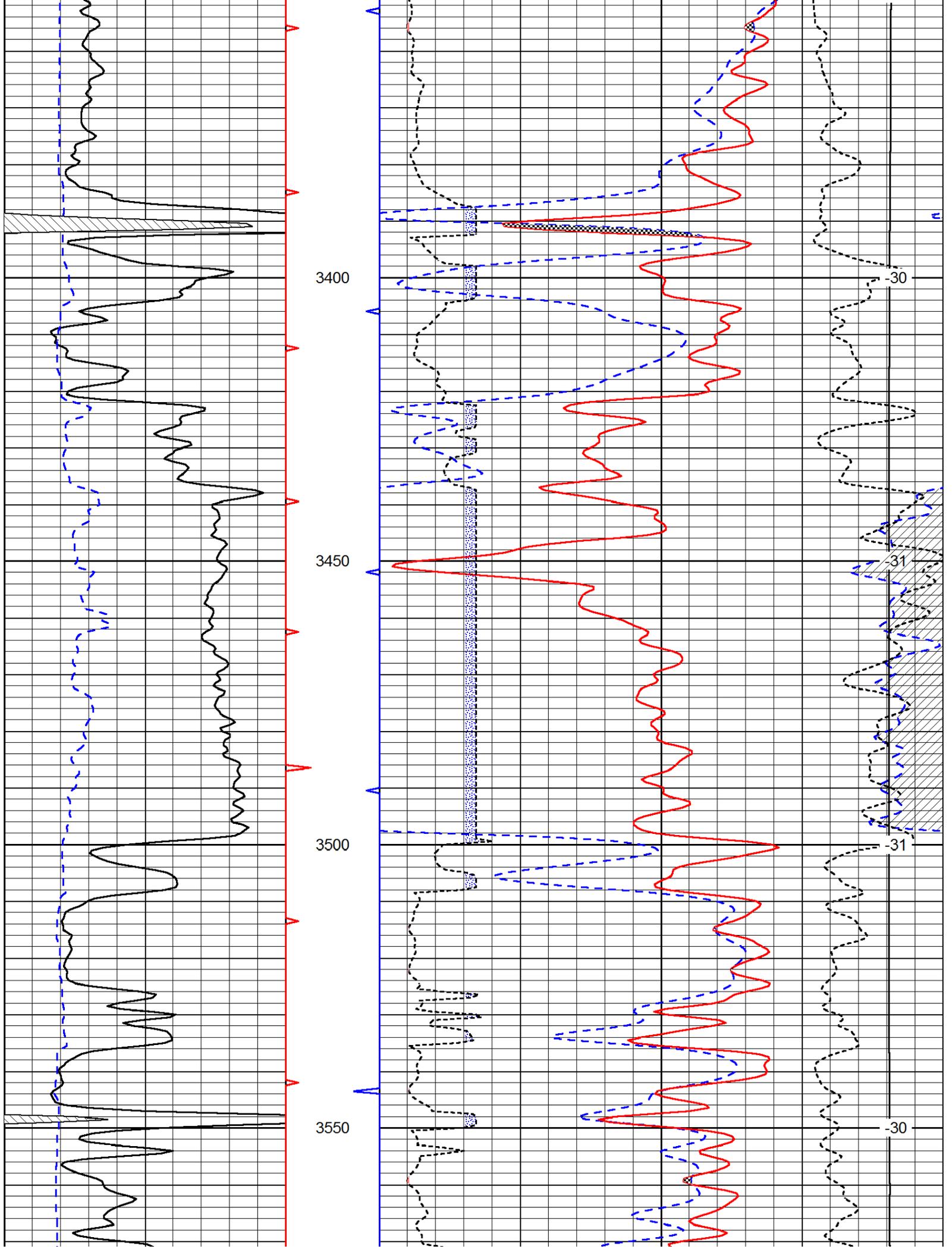
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|---|----------------|-----|-------|---------------------|------------|------|
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| | | | 15000 | Line Tension | 0 | |
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| | | | | | | LSPD |

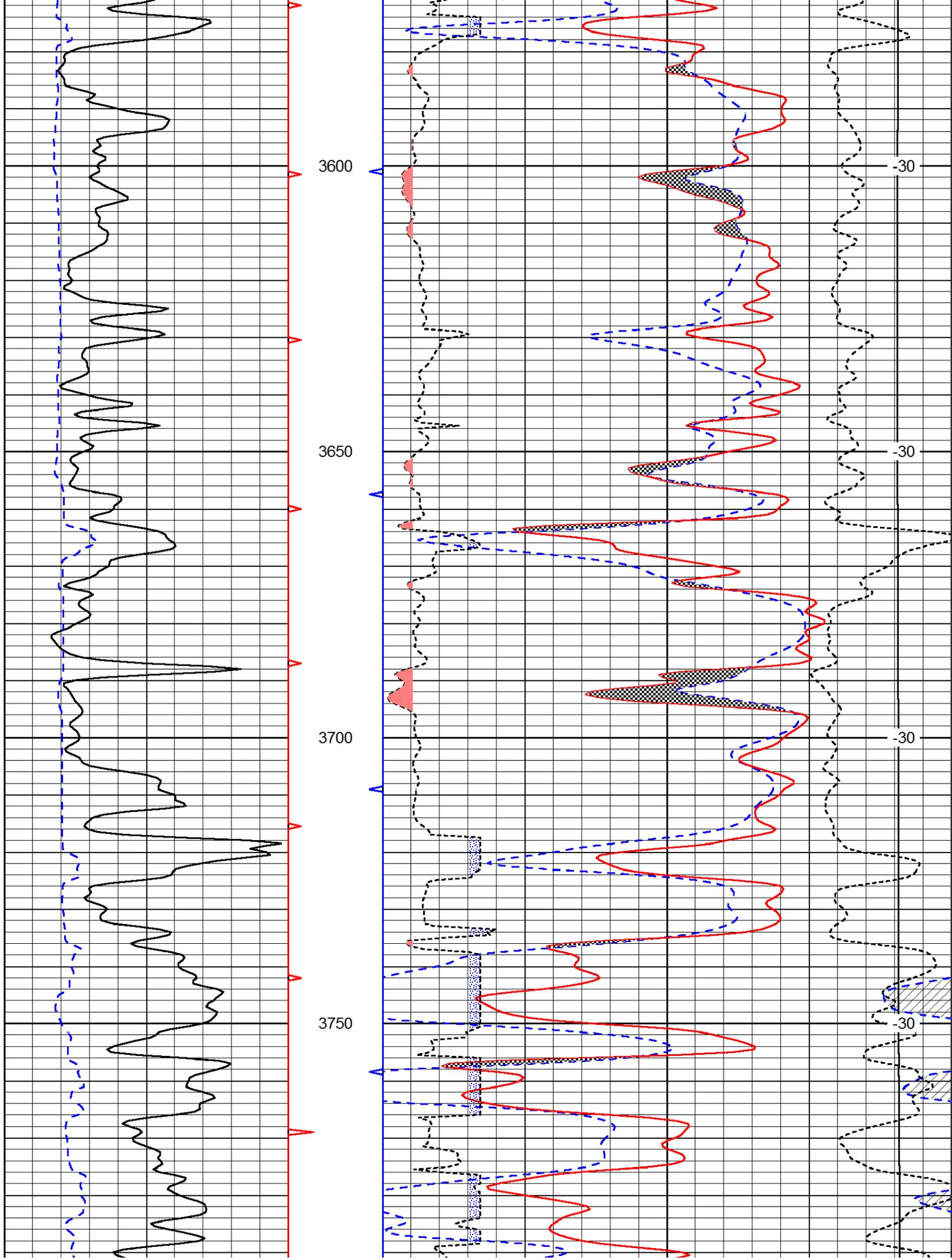
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 Presentation Format: cndlspec
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 Charted by: Depth in Feet scaled 1:240

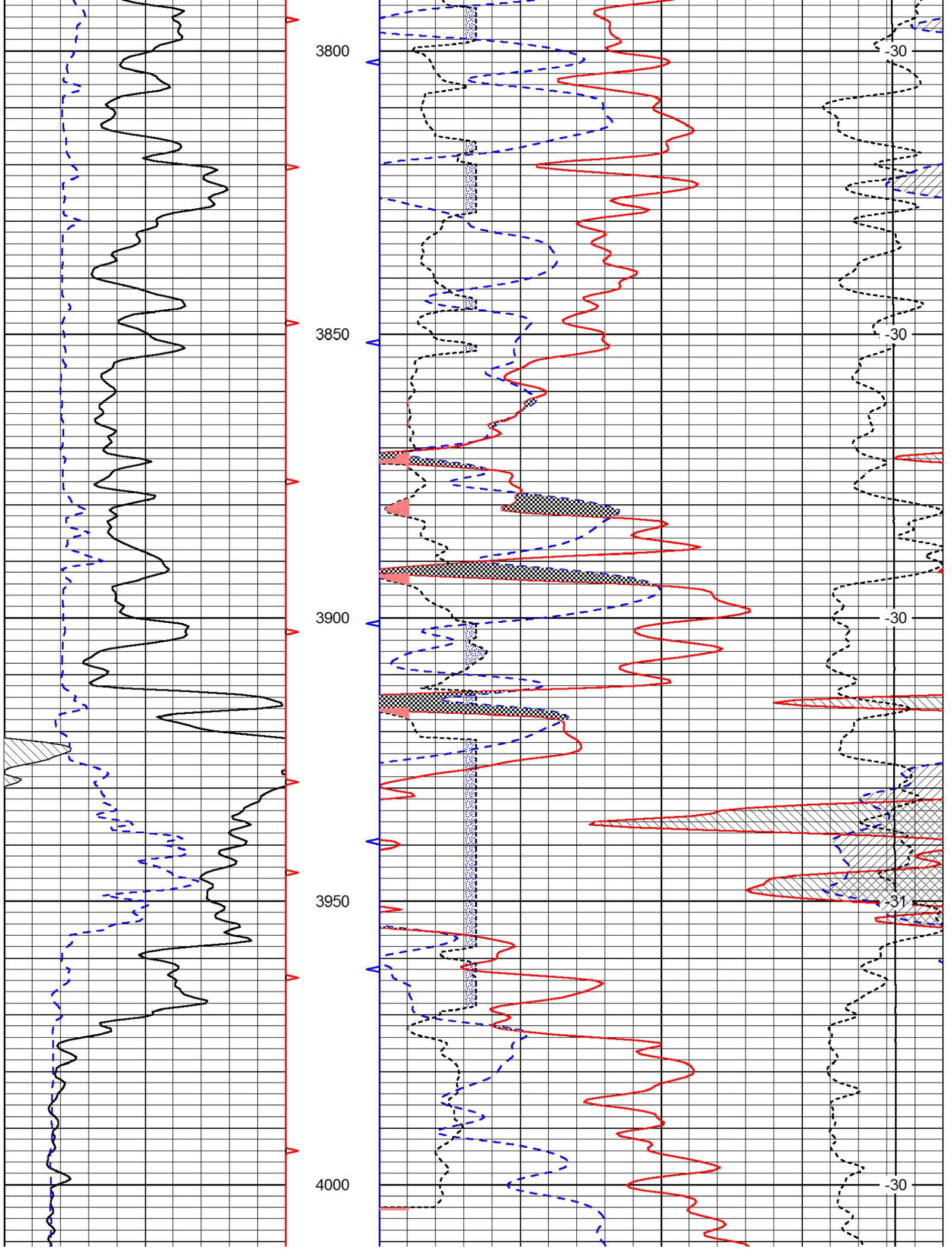
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|---|----------------|-----|-------|---------------------------------|------------|------|
| 0 | Gamma Ray | 150 | 30 | Compensated Neutron (Limestone) | -10 | |
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| | | | 15000 | Line Tension | | 0 |
| | | | | | | LSPD |

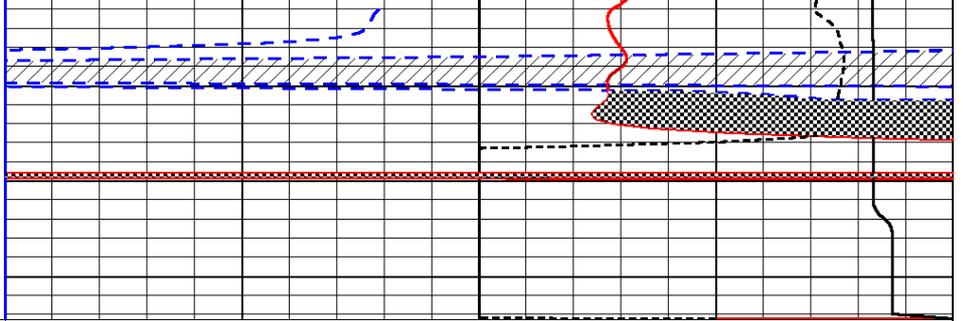
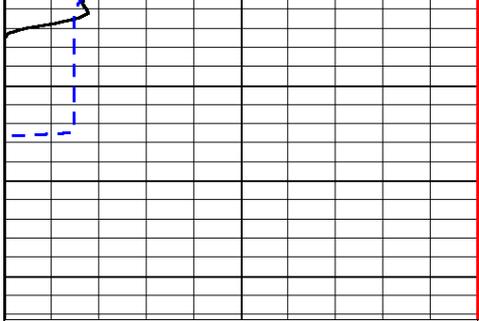












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| |
|------|
| LSPD |
|------|