



Pioneer Energy Services

Dual Compensated Porosity Log

15-109-21,329-00-00

API No.

Company **Black Tea Oil, LLC**
 Well **Hibbert 'A' #3**
 Field **Bridges**
 County **Logan** State **Kansas**

Location **1855' FNL & 764' FEL**

Other Services
 DIL
 MEL/BHCS

Permanent Datum **Ground Level** Elevation **2668**
 Log Measured From **Kelly Bushing** 12 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

K.B. 2680
 D.F.
 G.L. 2668

Date **10/5/2014**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **4475**

Depth Logger **4444**

Bottom Logged Interval **4423**

Top Logged Interval **3000**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **7000**

Density **9.1**

Level **Full**

Max. Rec. Temp. F **121**

Operating Rig Time **5 Hours**

Equipment -- Location **15 Hays**

Recorded By **D.Kerr**

Witnessed By **Rich Thomasson**

| Borehole Record | | Casing Record | | | | | |
|-----------------|-------|---------------|------|-------|------|------|-----|
| Run No | Bit | From | To | Size | Wgt. | From | To |
| 1 | 12.25 | 00 | 264 | 8.625 | 24# | 00 | 264 |
| 2 | 7.875 | 264 | 4475 | | | | |

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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

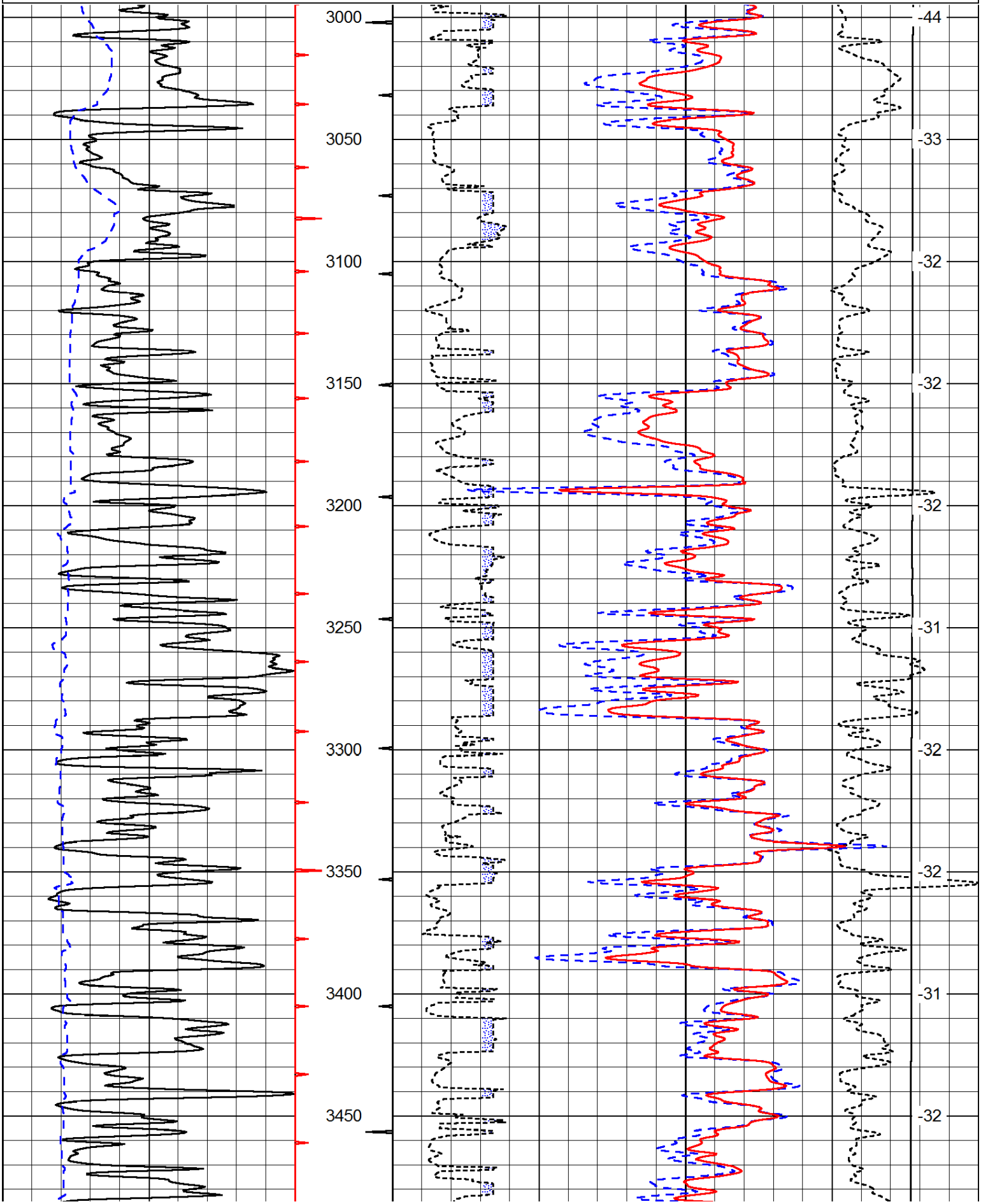
Thank you for using Pioneer Energy Services
www.pioneeres.com
 785 625 3858

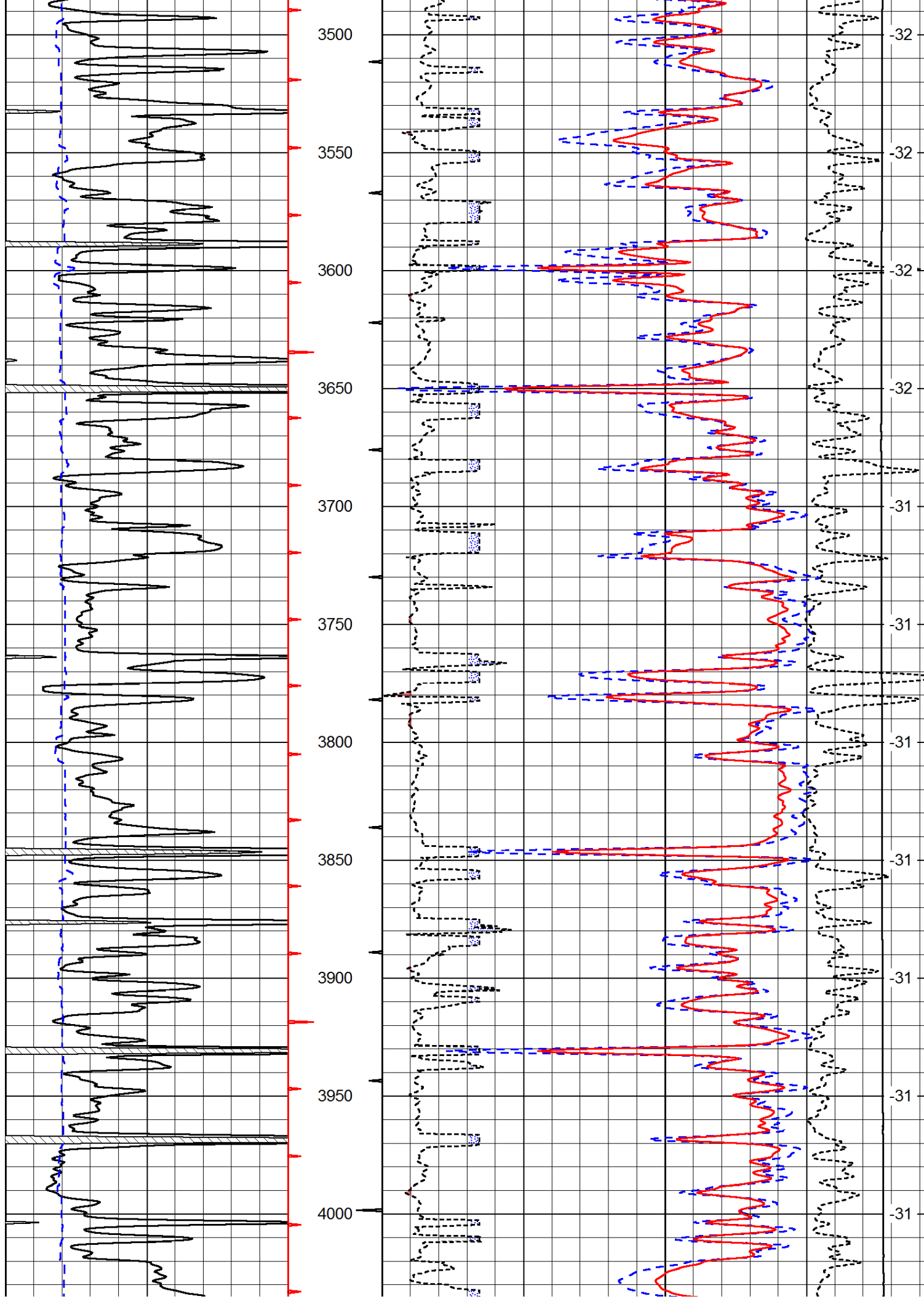
Oakley KS, 22 South, East Into

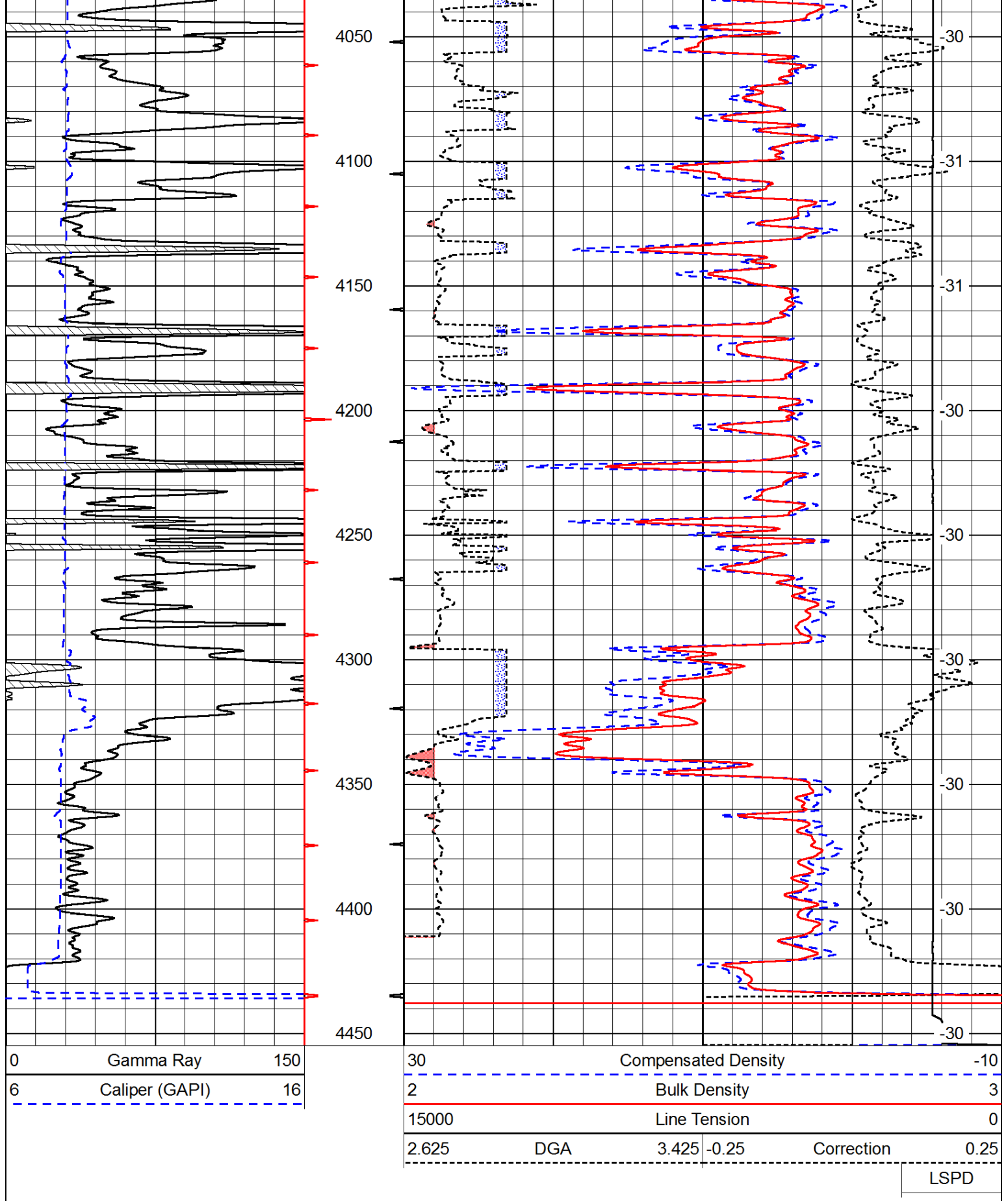
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 Dataset Pathname: DIL/btstk
 Presentation Format: cdl
 Dataset Creation: Sun Oct 05 08:44:24 2014
 Charted by: Depth in Feet scaled 1:600

| | | |
|---|----------------|-----|
| 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 |







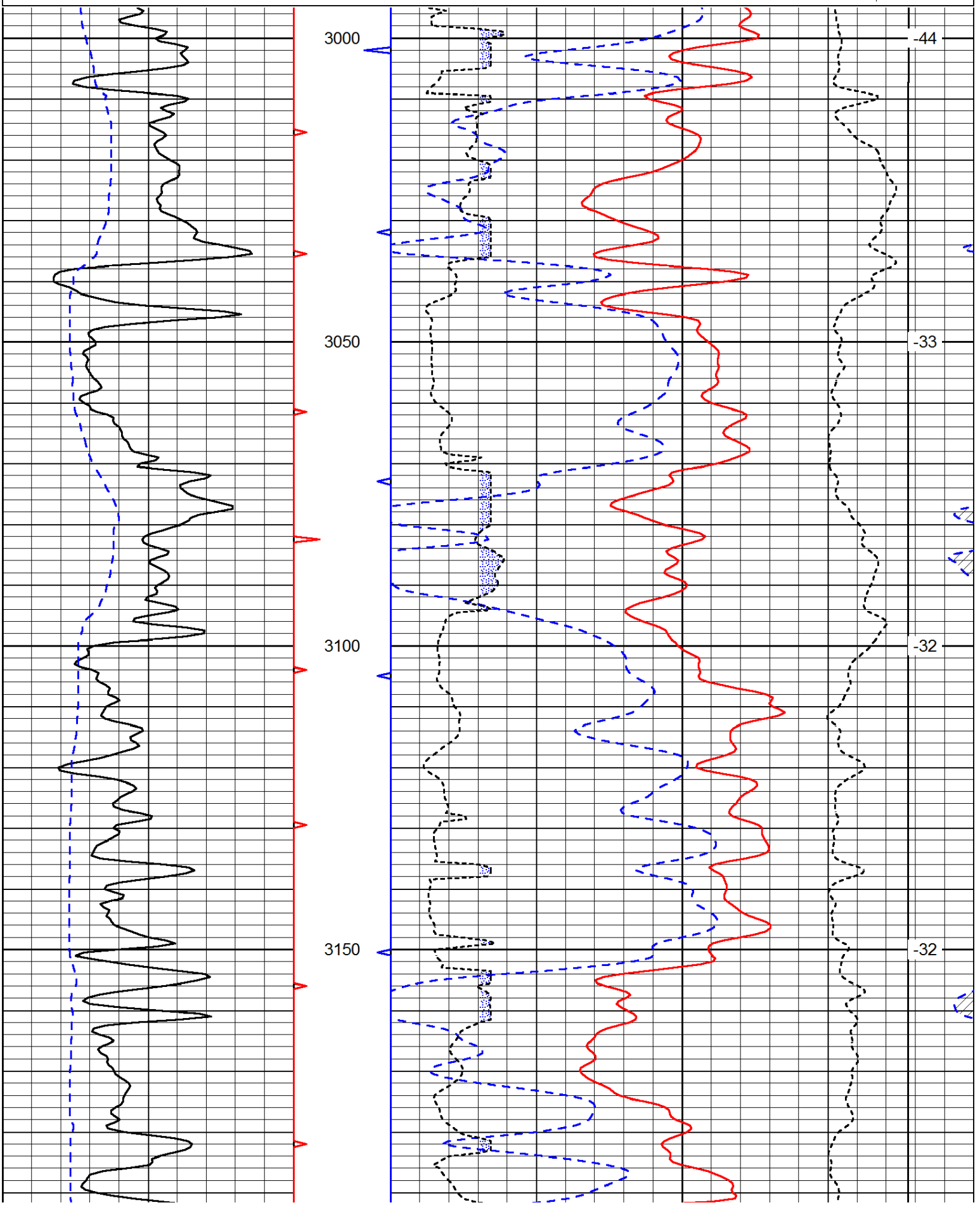
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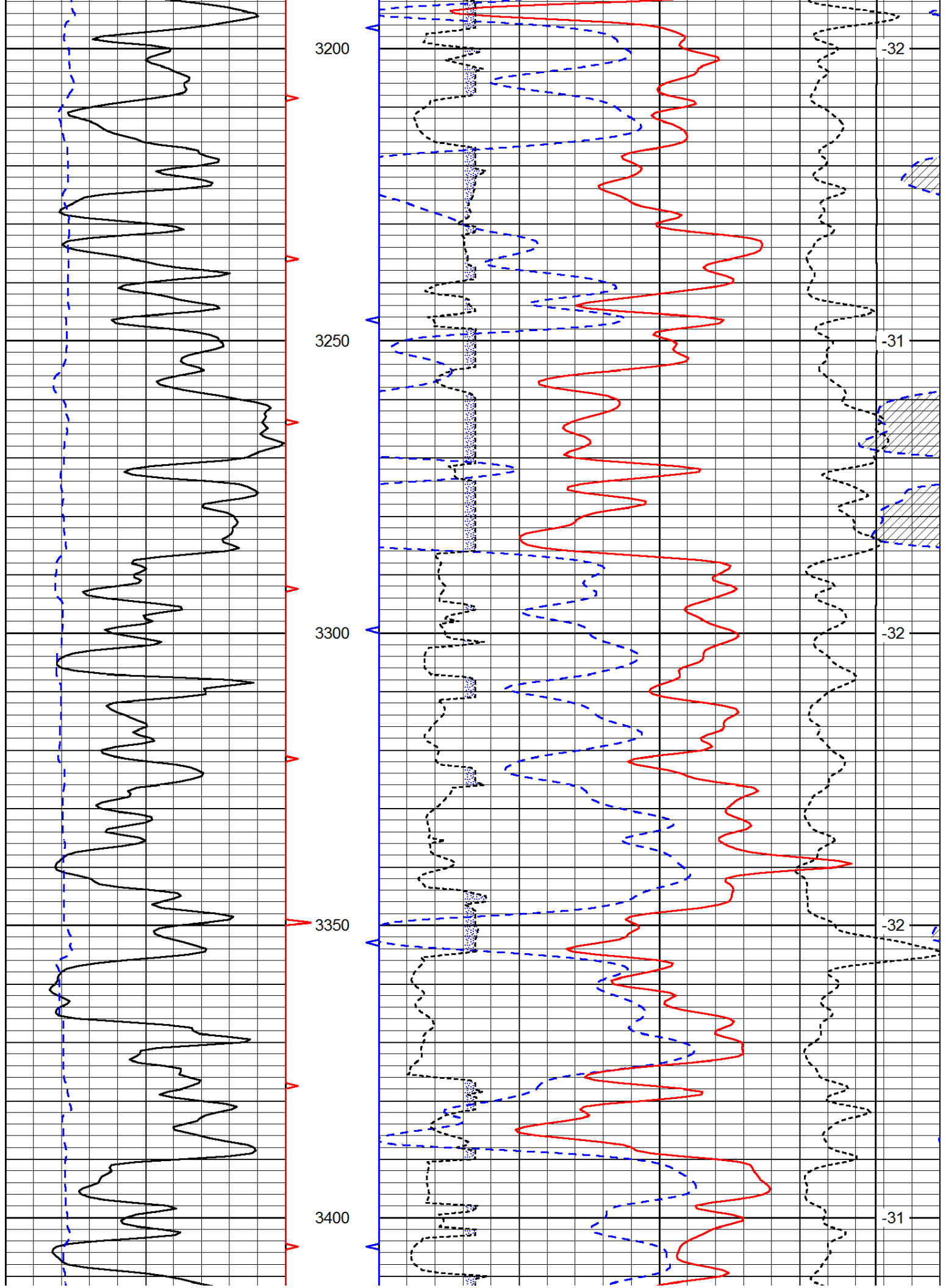


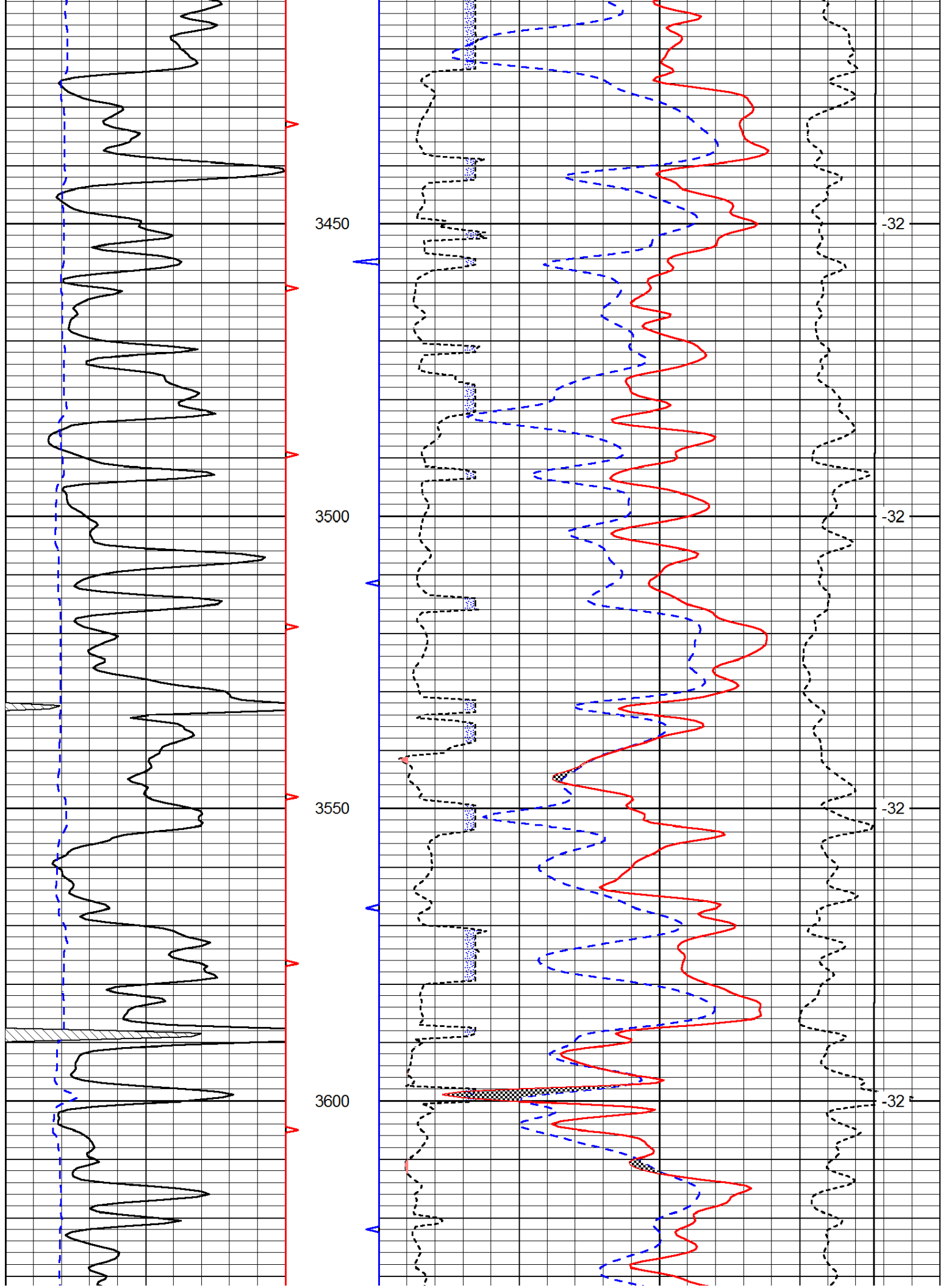
| | | |
|---|----------------|-----|
| 0 | Gamma Ray | 150 |
| 6 | Caliper (GAPI) | 16 |

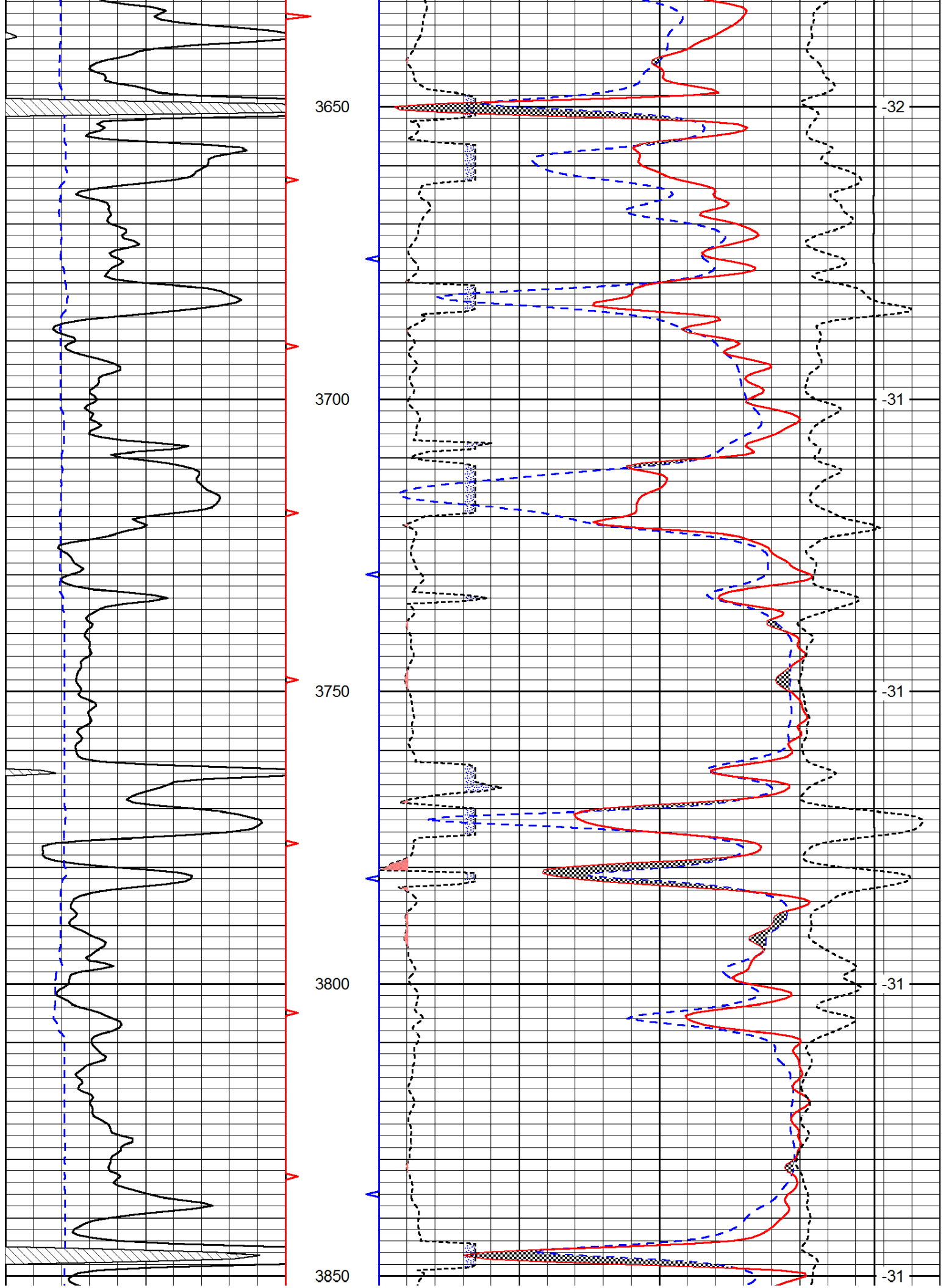
| | | | | | |
|-------|---------------------------------|-------|-------|------------|------|
| 50 | Compensated Neutron (Limestone) | | | -10 | |
| 30 | Compensated Density (Limestone) | | | -10 | |
| 2.625 | DGA | 3.425 | -0.25 | Correction | 0.25 |
| 15000 | Line Tension | | | 0 | |

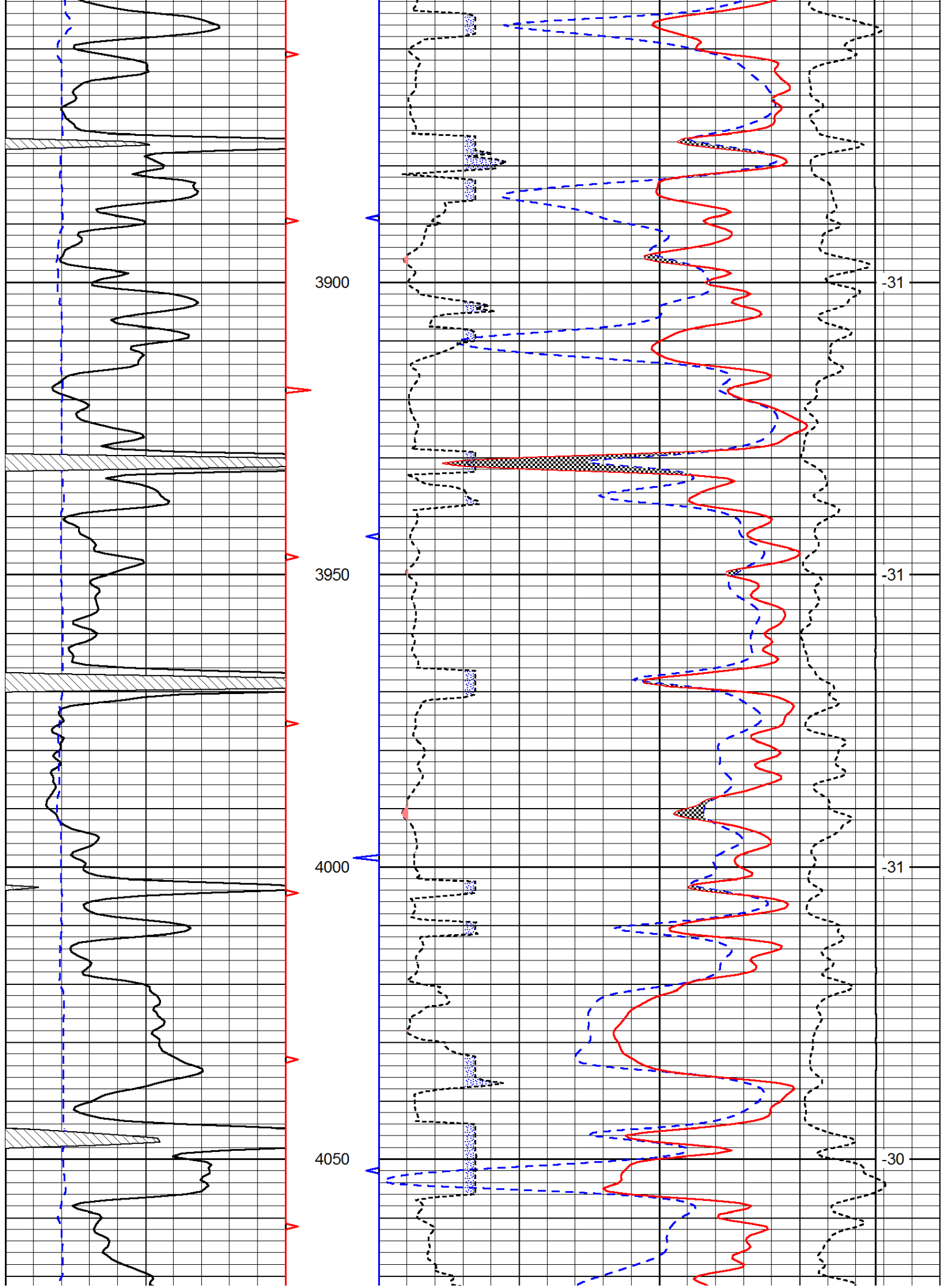
LSPD

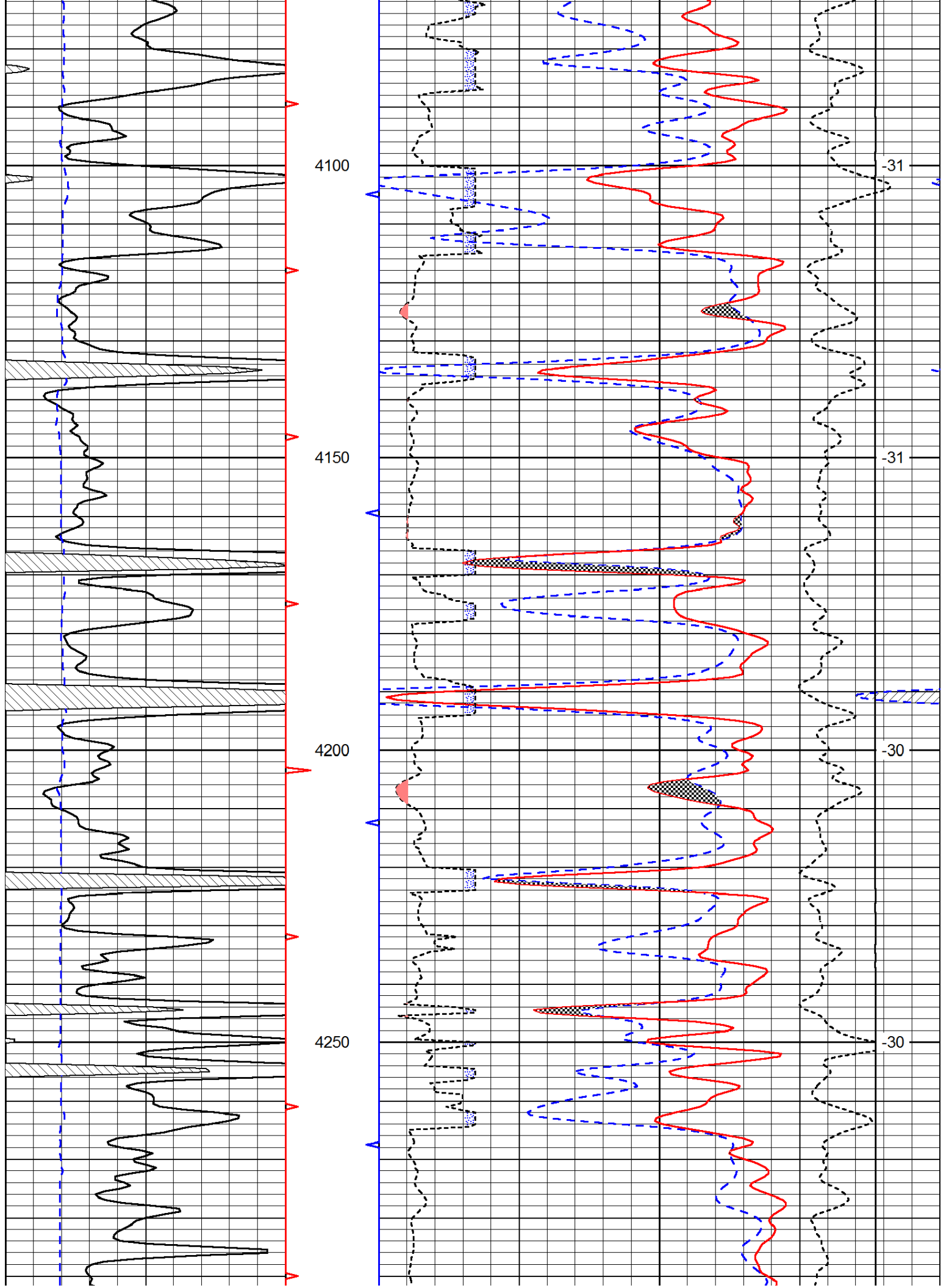


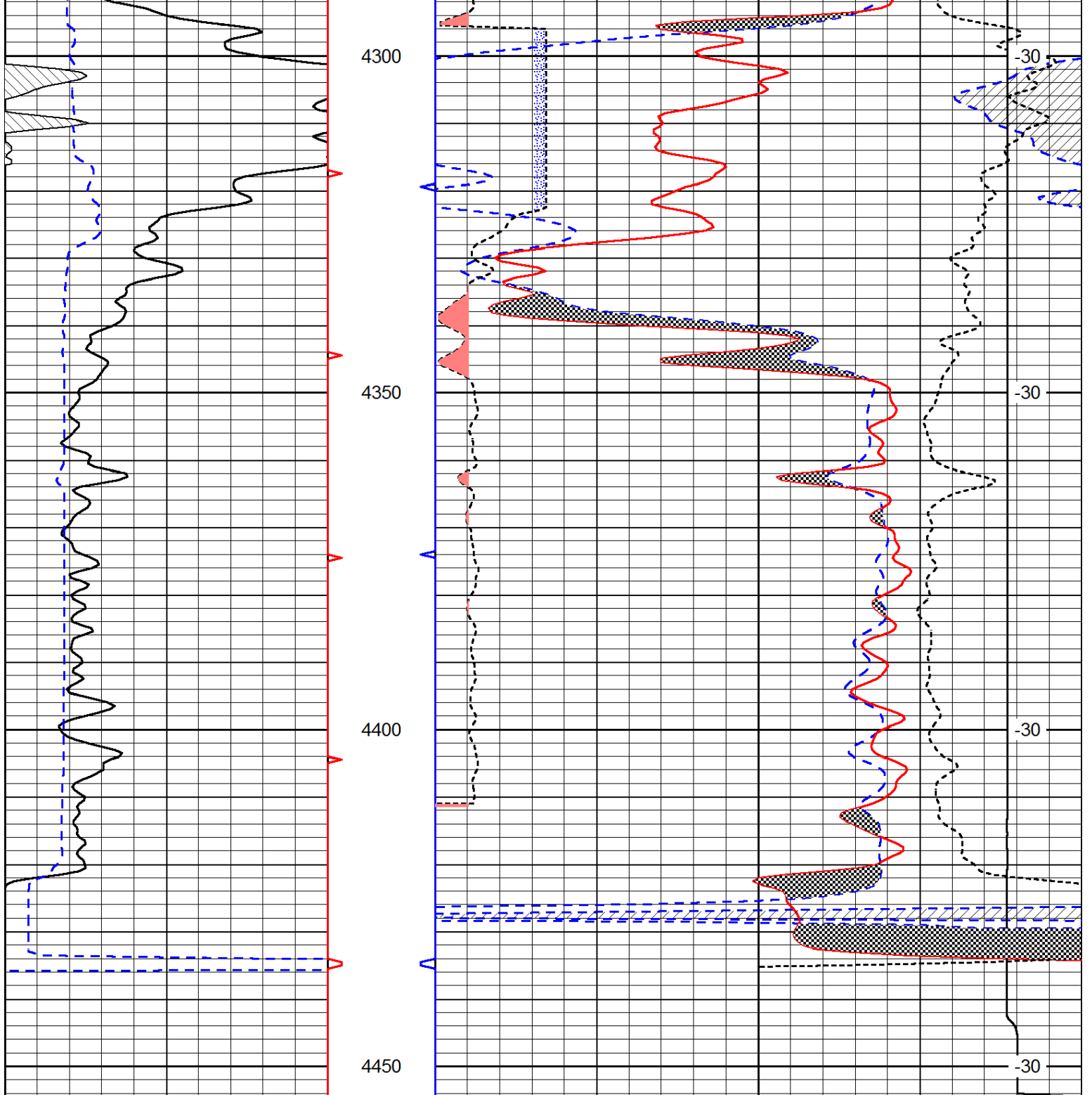












| | | |
|---|----------------|-----|
| 0 | Gamma Ray | 150 |
| 6 | Caliper (GAPI) | 16 |

| | | | | | |
|-------|---------------------------------|-------|-------|------------|------|
| 30 | Compensated Neutron (Limestone) | | | -10 | |
| 30 | Compensated Density (Limestone) | | | -10 | |
| 2.625 | DGA | 3.425 | -0.25 | Correction | 0.25 |
| 15000 | Line Tension | | | 0 | |

LSPD