PIONEER

Pioneer Energy Services

# Dual Compensated Porosity Log

API No. 15-007-24,051-00-00

Company Roberts Resources, Inc.

Well Thom Ranch #3-29

Field Amber Creek East

County Barber State Kansas

Location 2,050' FSL & 2,260' FWL

Sec: 29 Twp: 30S Rge: 11W

Permanent Datum Ground Level Elevation 1811

Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
DIL
MEL

Elevation
K.B. 1822
D.F.
G.L. 1811

| | |
|---|---|
| Date | 9/2/2013 |
| Run Number | One |
| Type Log | CNL / CDL |
| Depth Driller | 4850 |
| Depth Logger | 4852 |
| Bottom Logged Interval | 4831 |
| Top Logged Interval | 3500 |
| Type Fluid In Hole | Chemical |
| Salinity, PPM CL | 2000 |
| Density | 9.0 |
| Level | Full |
| Max. Rec. Temp. F | 125 |
| Operating Rig Time | 4 1/2 Hours |
| Equipment -- Location | 108 Hays |
| Recorded By | J. Long |
| Witnessed By | Kent Roberts |

Borehole Record

| Run No. | Bit | From | To |
|---|---|---|---|
| 1 | 12.25 | 00 | 270 |
| 2 | 7.875 | 270 | 4850 |

Casing Record

| Size | Wgt. | From | To |
|---|---|---|---|
| 8.625 | 24# | 00 | 270 |

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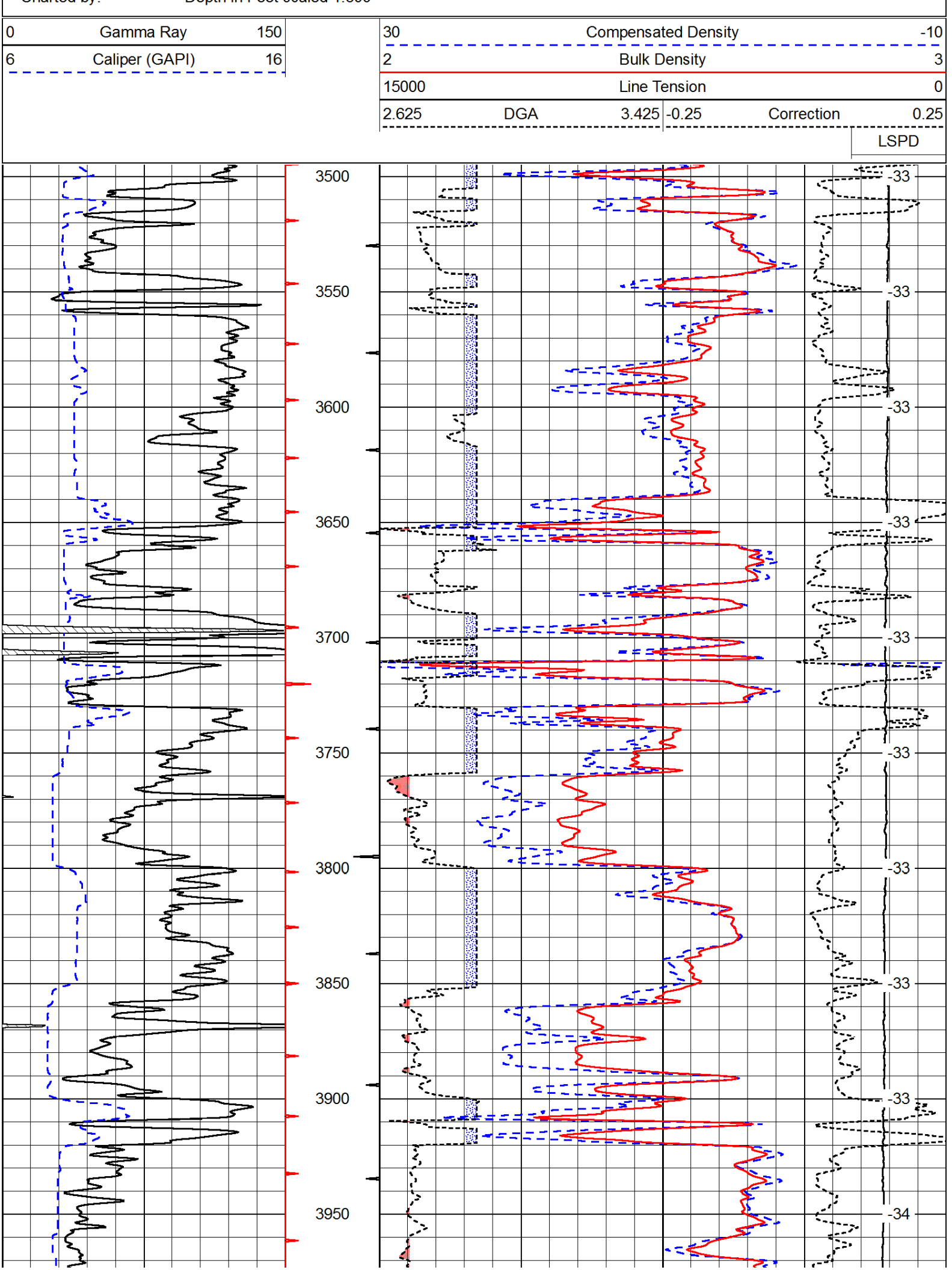
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

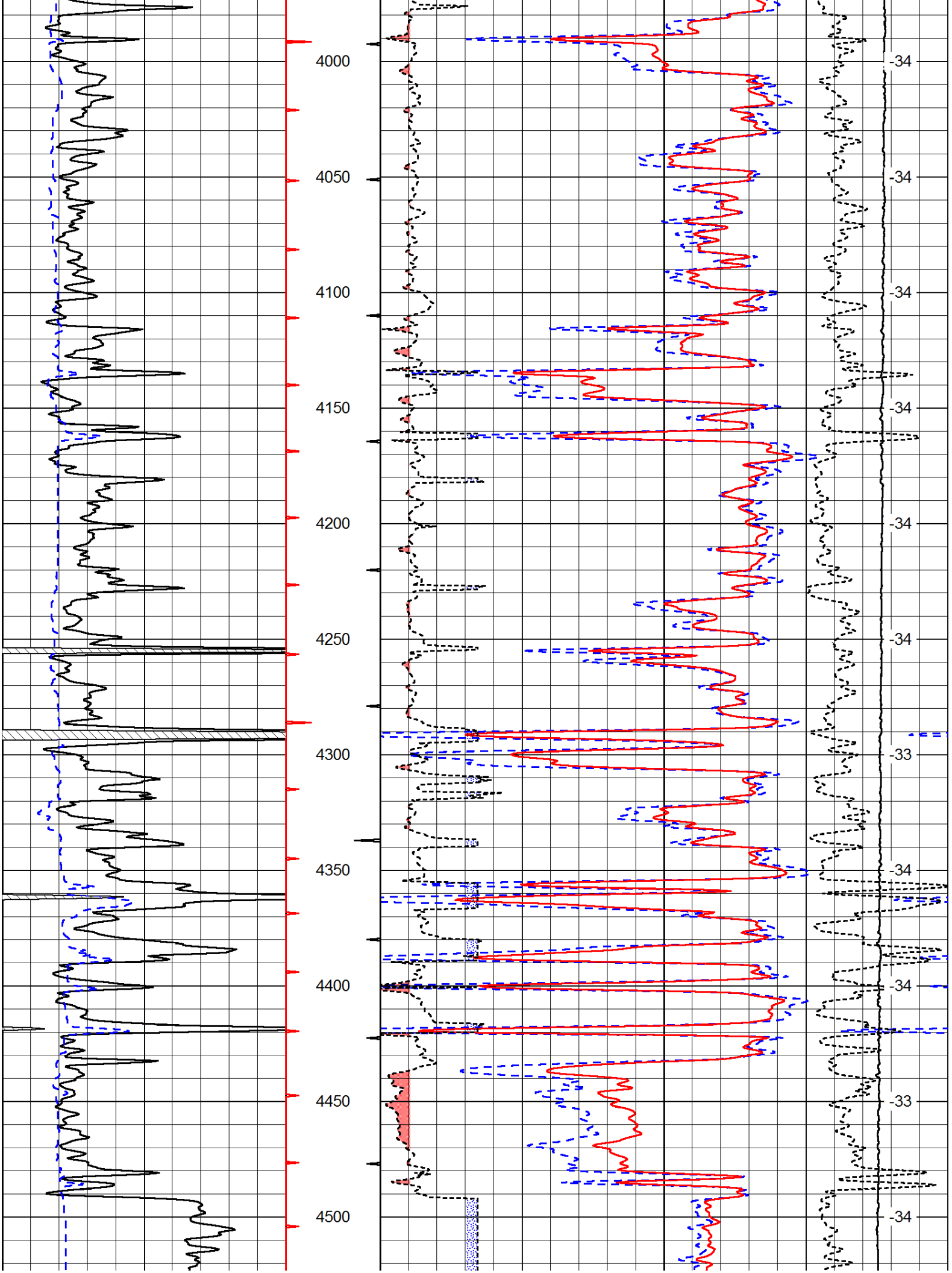
## Comments

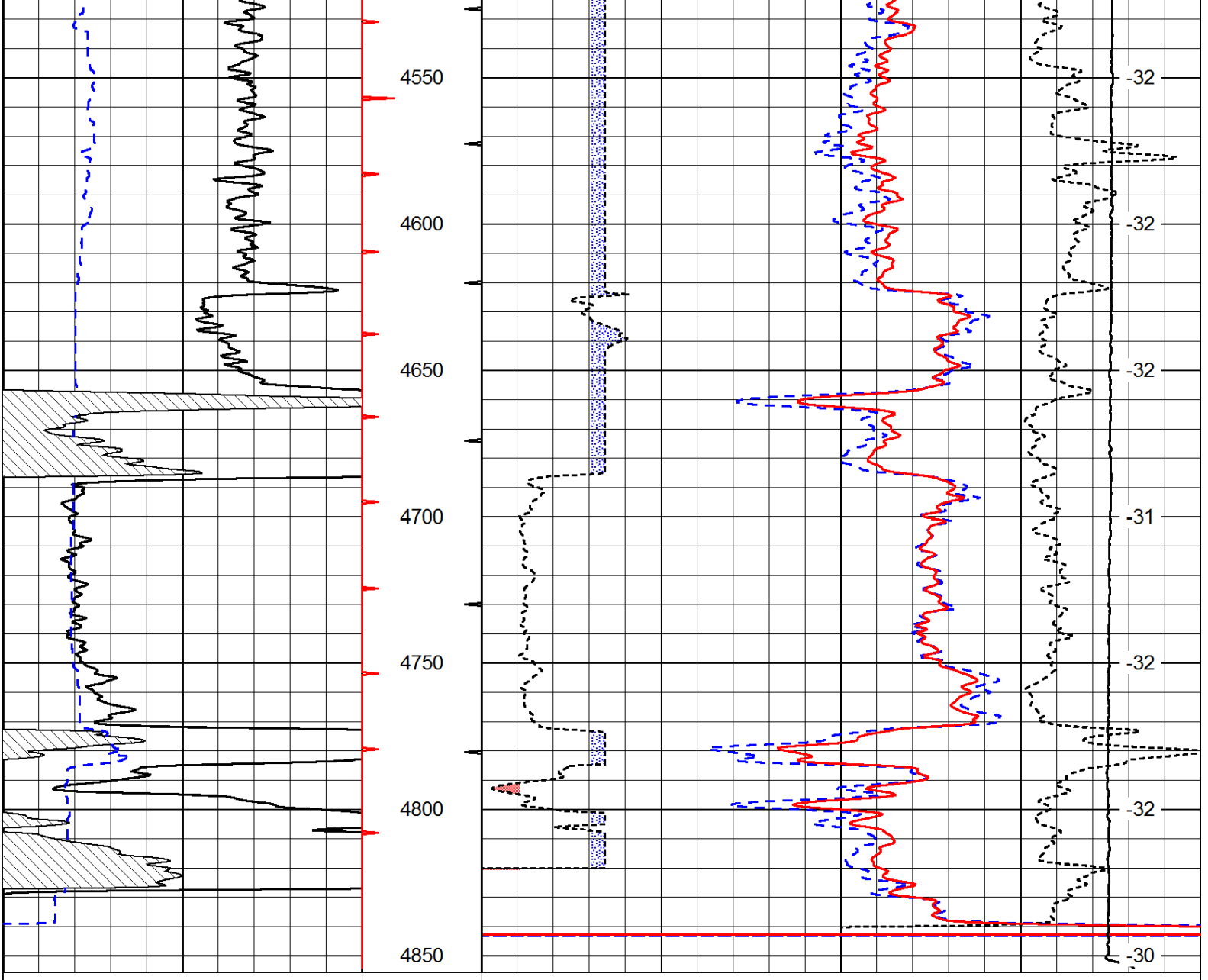
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www.pioneeres.com
785 625 3858

Isabel, 5 South on Isabel Blacktop to Cream Road, 1/2 West, North Into

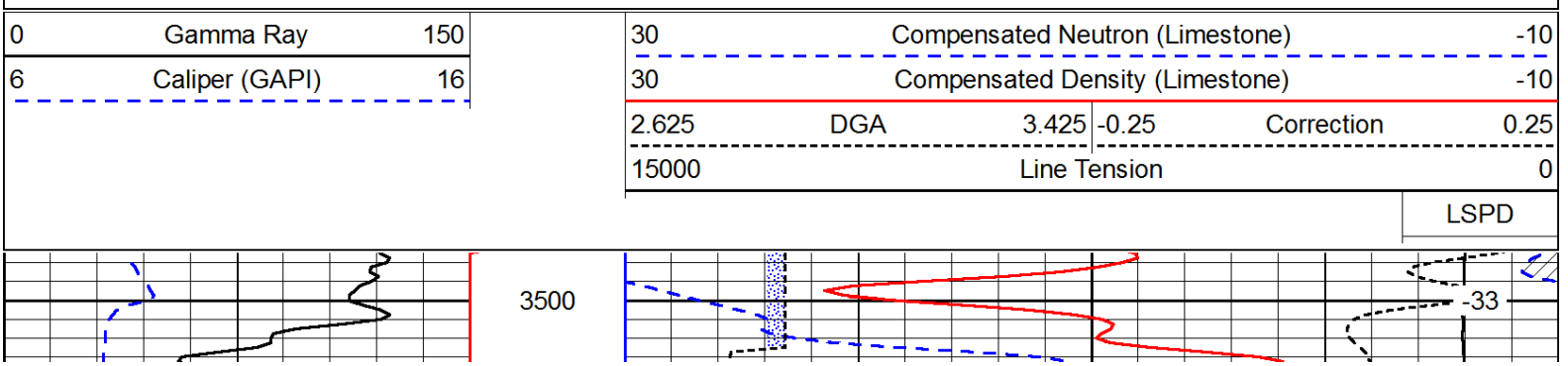
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| Presentation Format: | cdl |
| Dataset Creation: | Mon Sep 02 22:49:35 2013 |
| Charted by: | Depth in Feet scaled 1:600 |

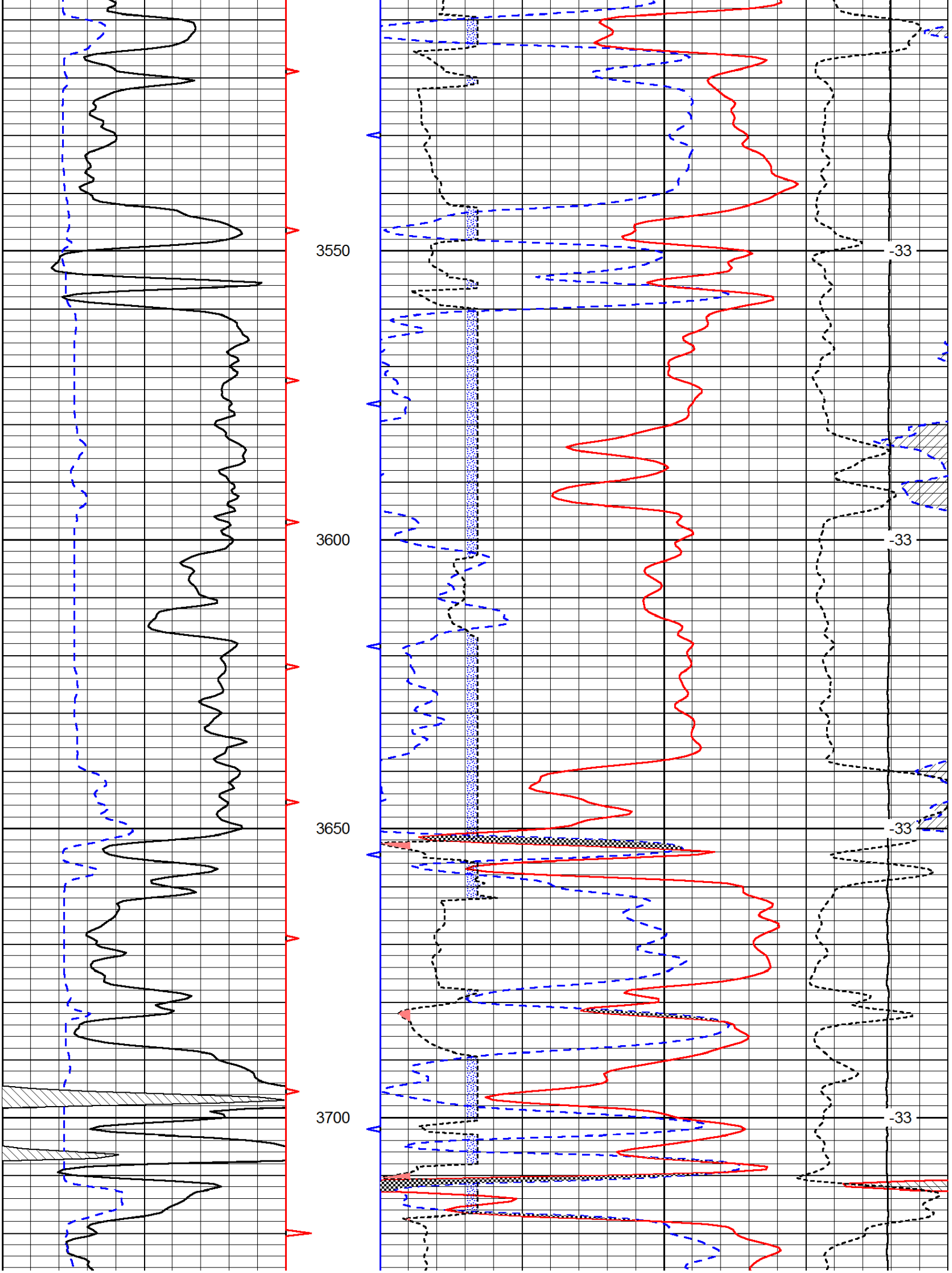

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Gamma Ray
150
6
Caliper (GAPI)
16
30
Compensated Density
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Bulk Density
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15000
Line Tension
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DGA
3.425
-0.25
Correction
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LSPD
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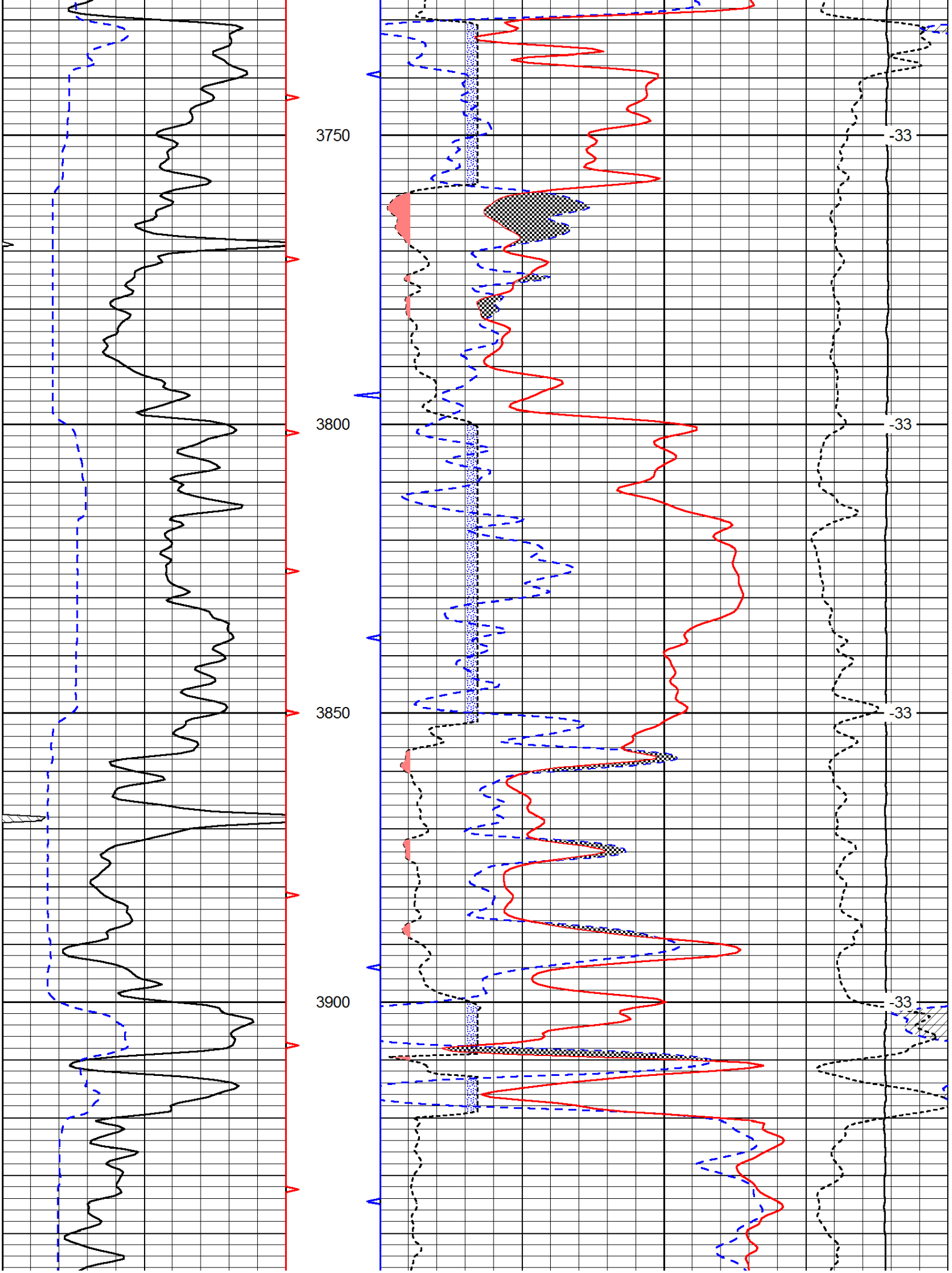

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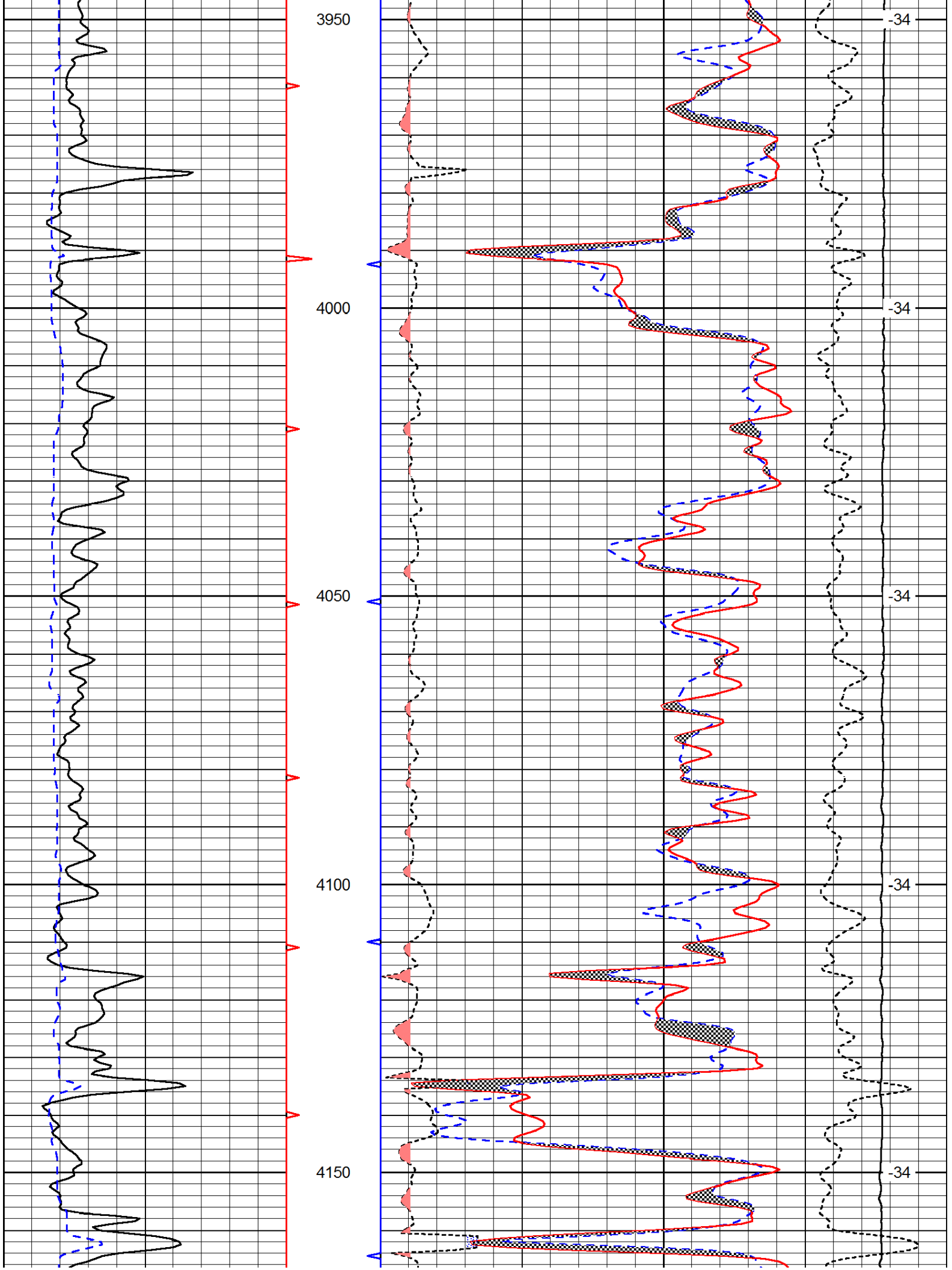


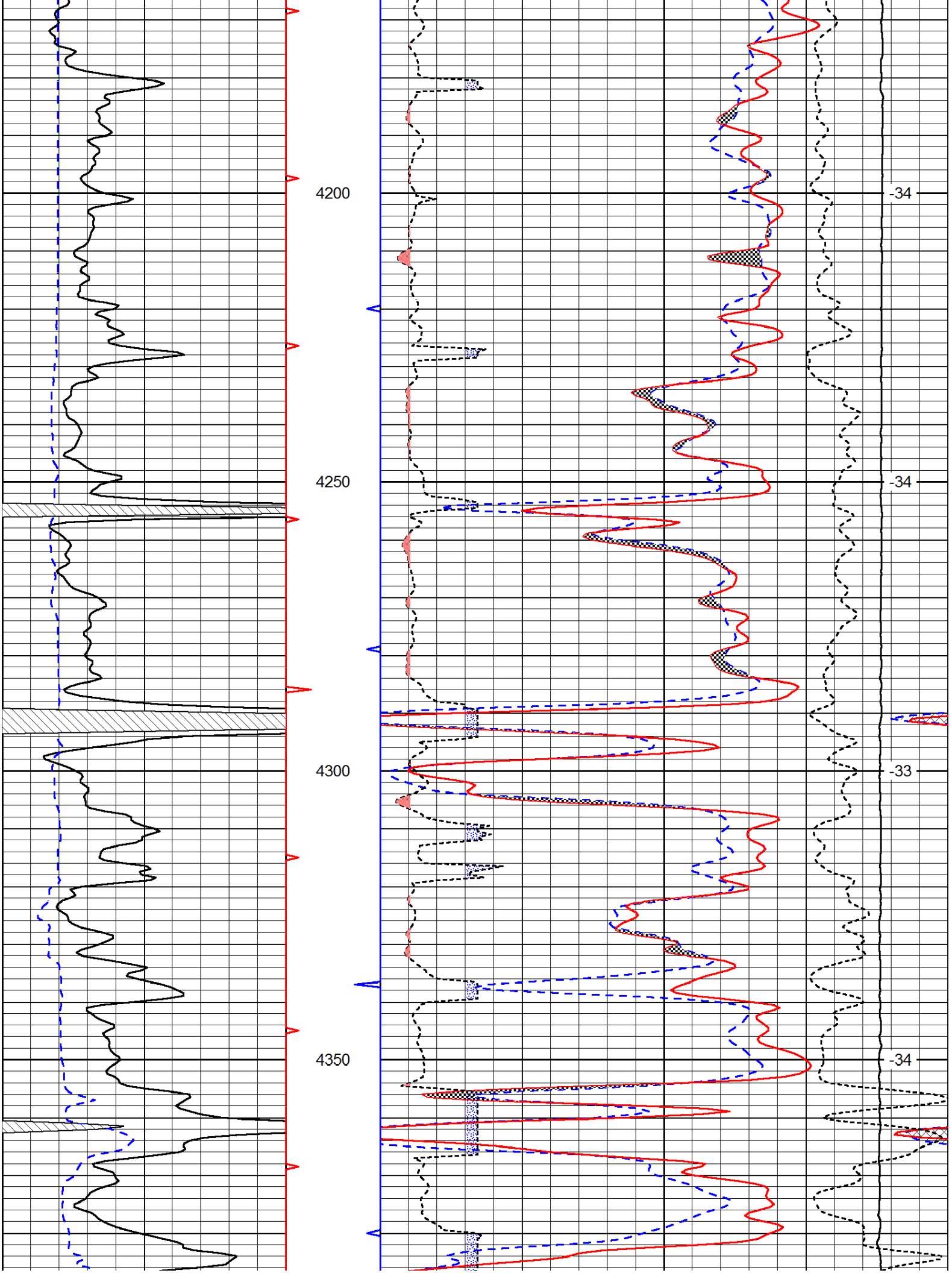

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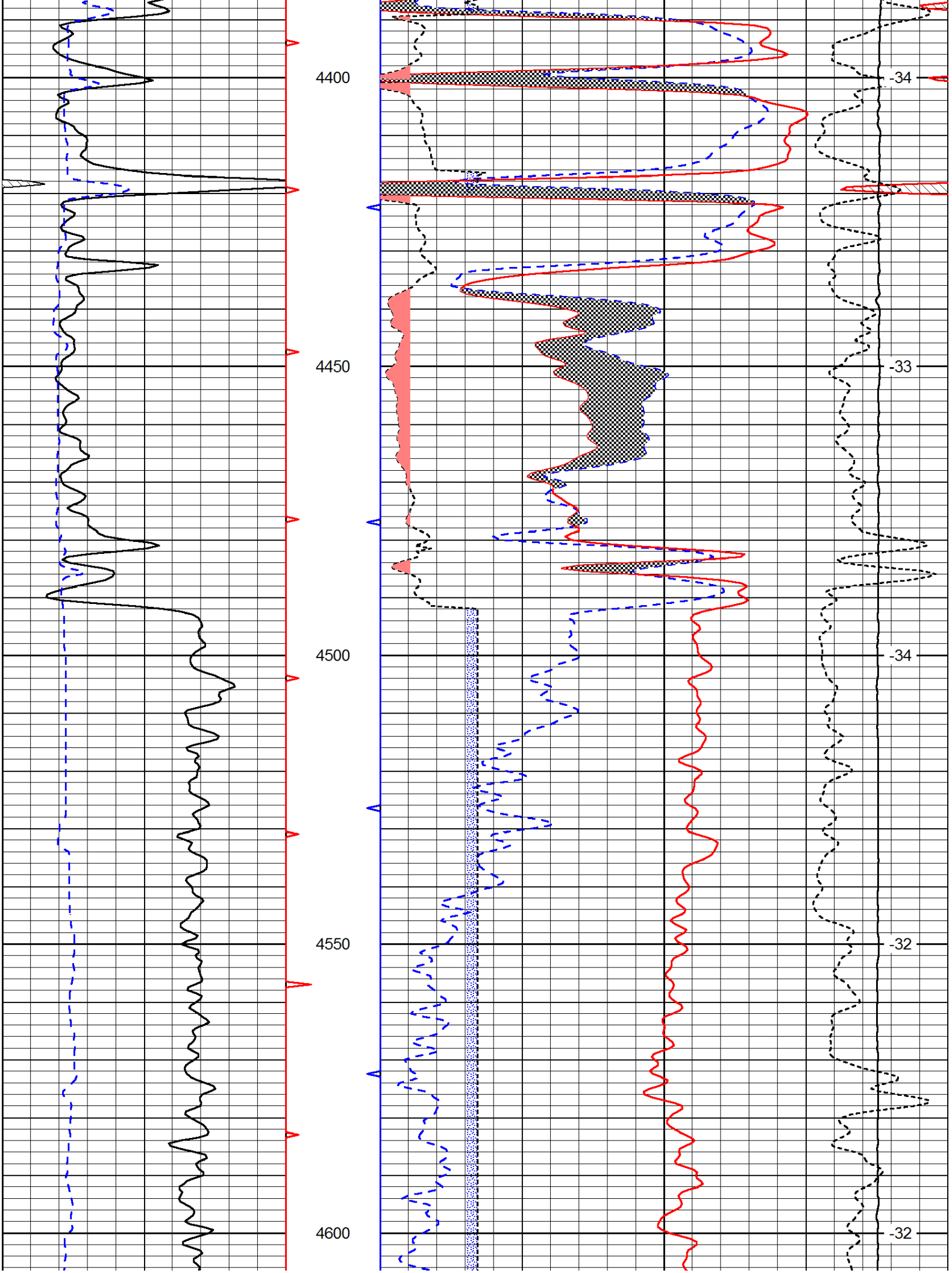


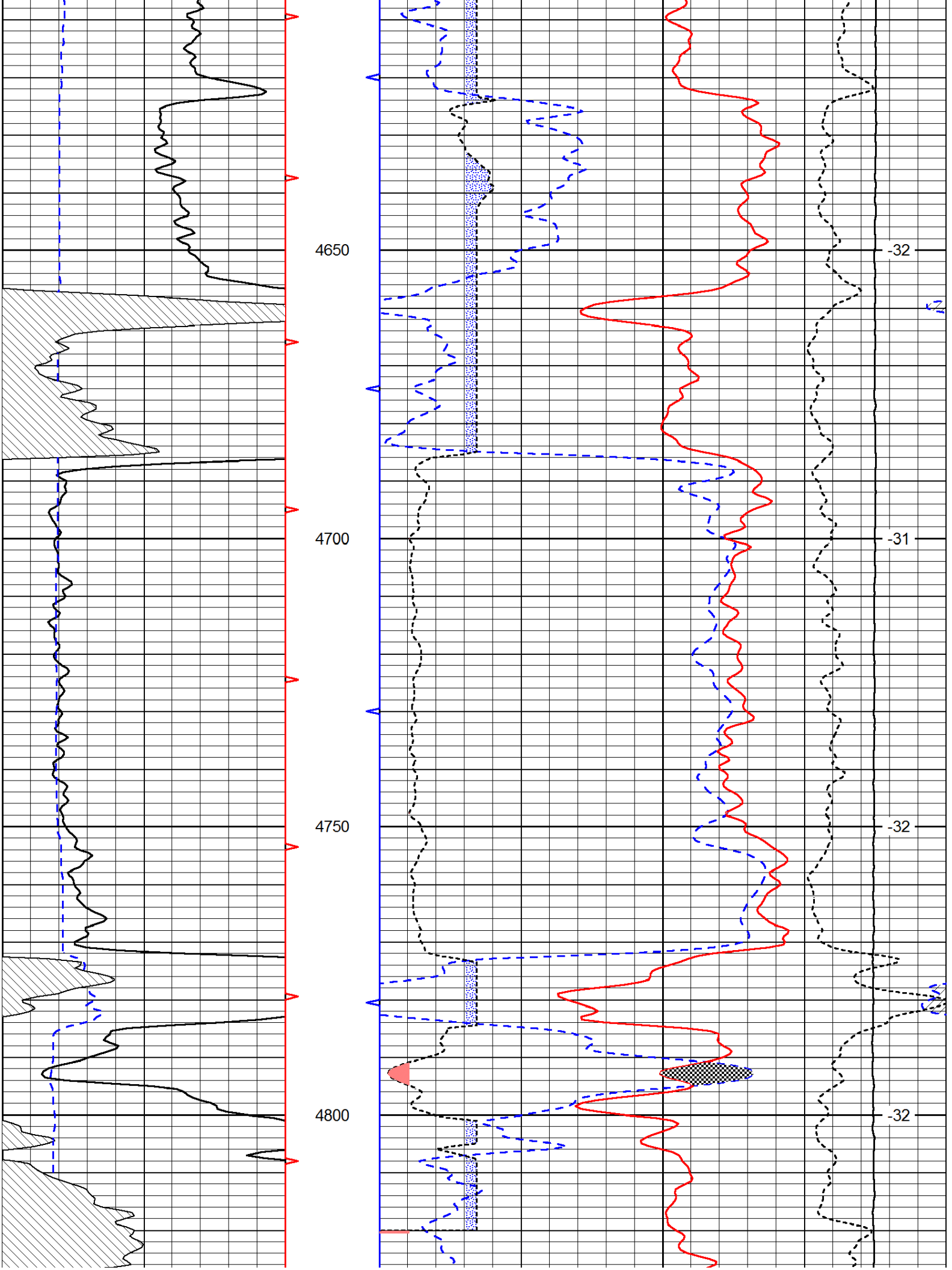

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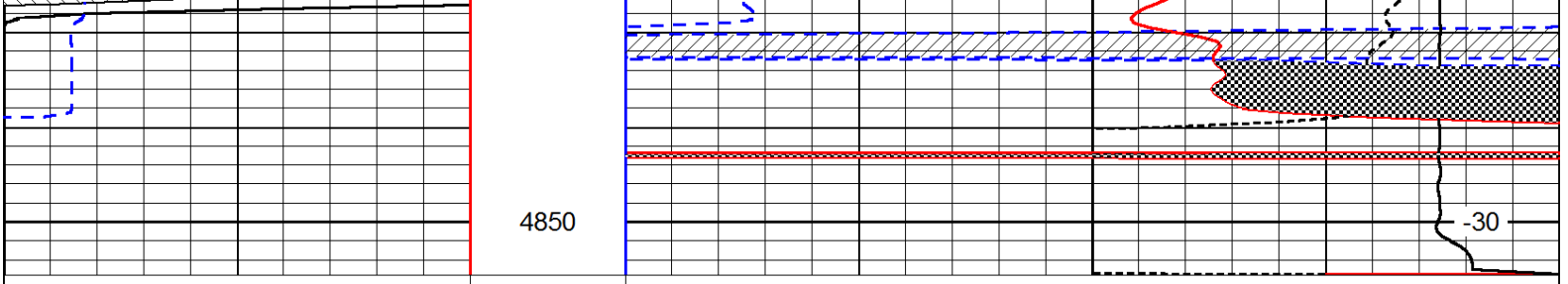

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| | | | | | |
|---|---|---|---|---|---|
| 0 | Gamma Ray | 150 | 30 | Compensated Neutron (Limestone) | -10 |
| 6 | Caliper (GAPI) | 16 | 30 | Compensated Density (Limestone) | -10 |
| | | | 2.625 DGA 3.425 | -0.25 Correction | 0.25 |
| | | | 15000 | Line Tension | 0 |
| | | | | | LSPD |