PIONEER

Pioneer Energy Services

# Dual Compensated Porosity Log

API No. 15-145-21758-00-00

Company Downing-Nelson Oil Company, Inc.

Well Meckfessel Trust # 1-17

Field Badger Hill East

County Pawnee State Kansas

Location 1040' FNL & 2005' FEL

Sec: 17 Twp: 23 S Rge: 18 W

Other Services: DIL/MEL

| | |
|---|---|
| Permanent Datum | Ground Level |
| Log Measured From | Kelly Bushing |
| Drilling Measured From | Kelly Bushing |
| | 13 Ft. Above Perm. Datum |

Elevation 2177

Elevation: K.B. 2190, D.F. , G.L. 2177

| | |
|---|---|
| Date | 06-04-2014 |
| Run Number | One |
| Type Log | CNL / CDL |
| Depth Driller | 4590 |
| Depth Logger | 4589 |
| Bottom Logged Interval | 4568 |
| Top Logged Interval | 3400 |
| Type Fluid In Hole | Chemical |
| Salinity, PPM CL | 4000 |
| Density | 9.4 |
| Level | Full |
| Max. Rec. Temp. F | 122 |
| Operating Rig Time | 4 Hours |
| Equipment -- Location | 15 Hays |
| Recorded By | Y. Ruiz |
| Witnessed By | Marc Downing |

Borehole Record

| Run No. | Bit | From | To |
|---|---|---|---|
| One | 12.25 | 00 | 1298 |
| Two | 7.875 | 1298 | TD |

Casing Record

| Size | Wgt. | From | To |
|---|---|---|---|
| 8.625 | 23# | 00 | 1298 |

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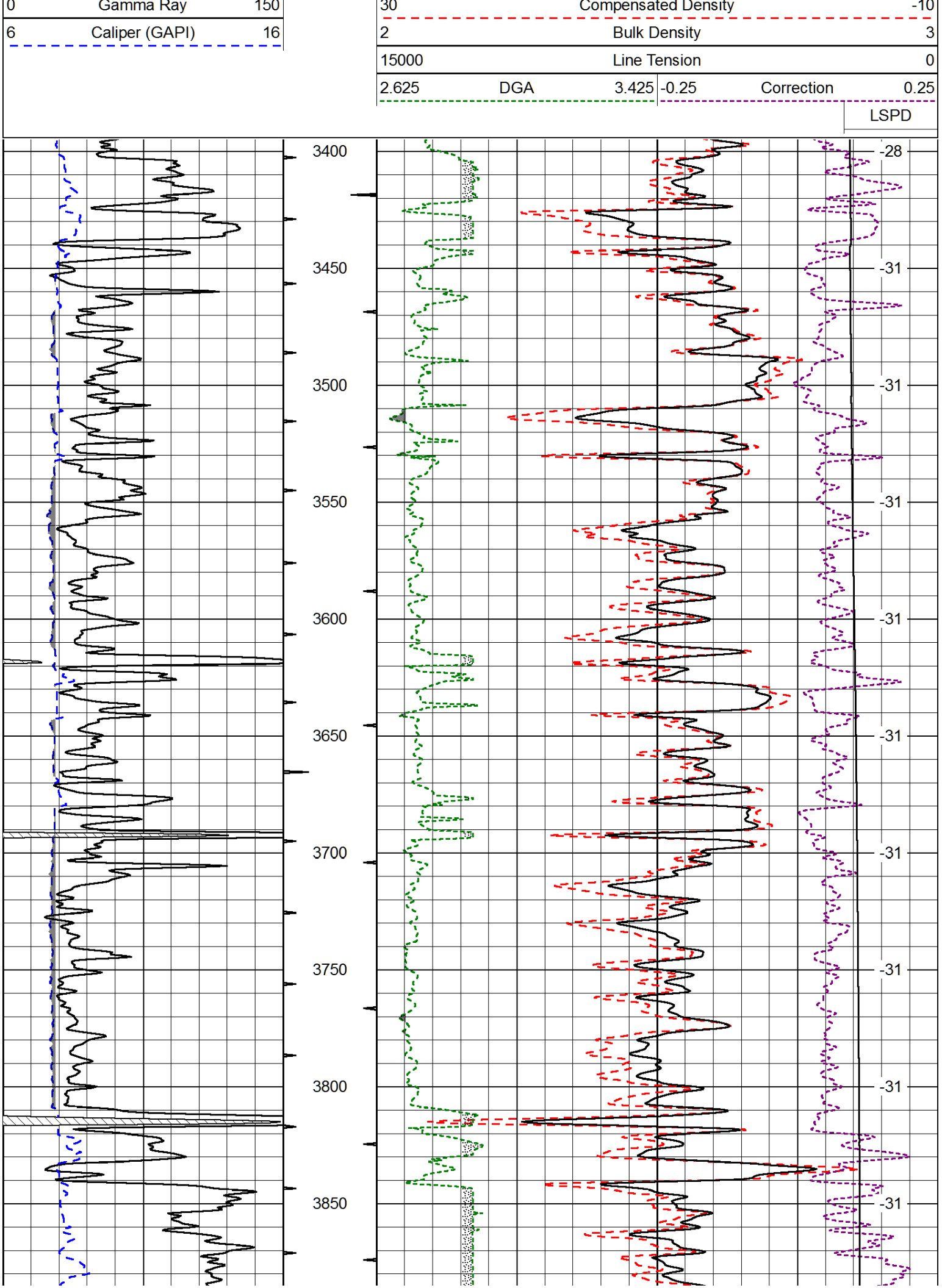
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

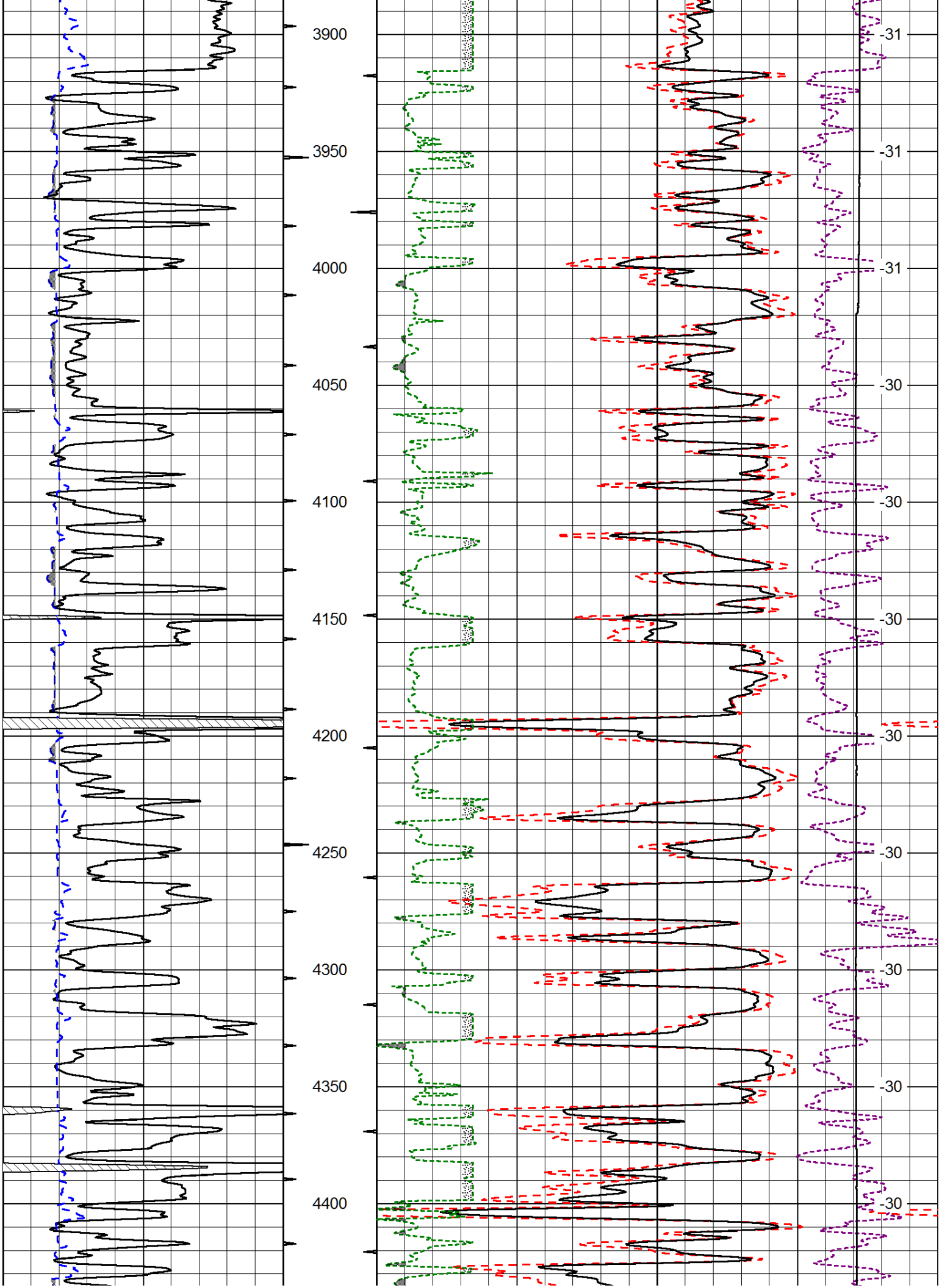
Comments

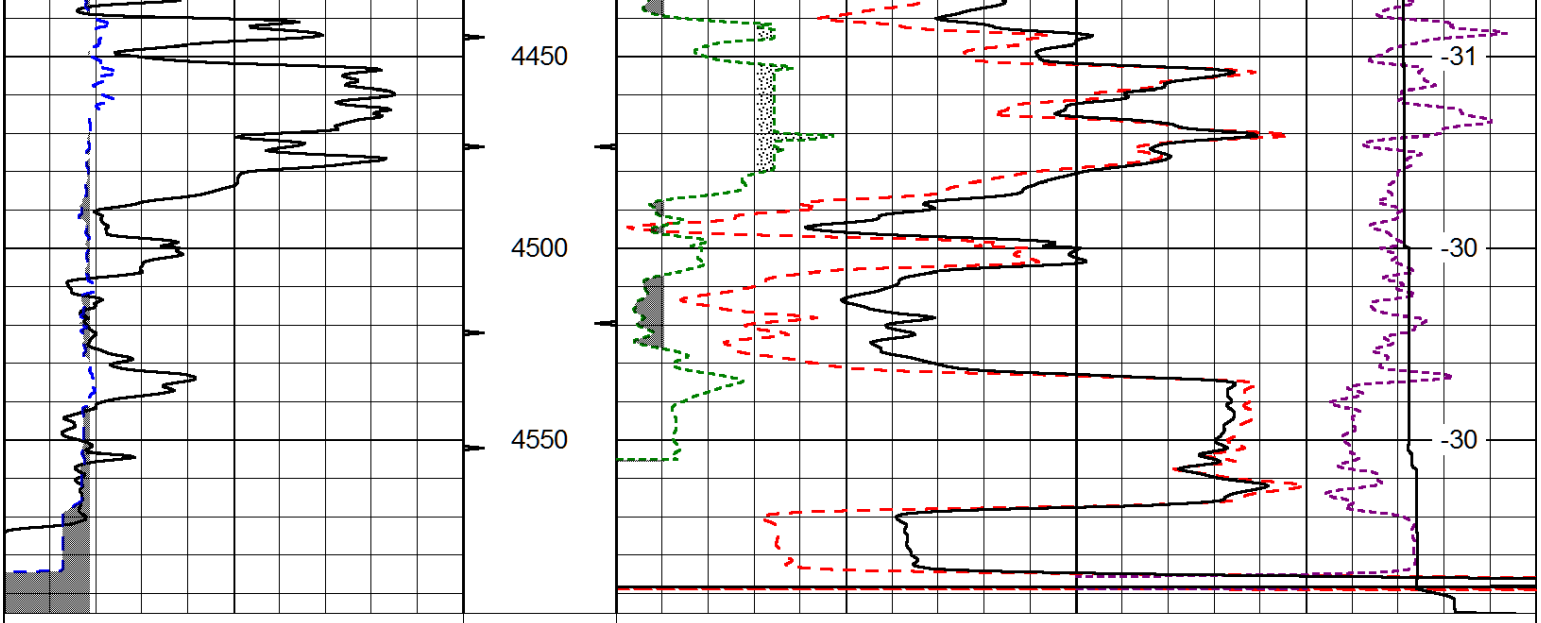
Thank you for using Log-Tech, Inc.
(785) 625-3858

Hwy 183 & Hwy 1-56,
South to E Rd, 1/4 West,
North into

| | |
|---|---|
| Database File: | downing_nelson_meckfessel_1_17hd.db |
| Dataset Pathname: | DIL/dostk |
| Presentation Format: | cdl |
| Dataset Creation: | Wed Jun 04 09:36:48 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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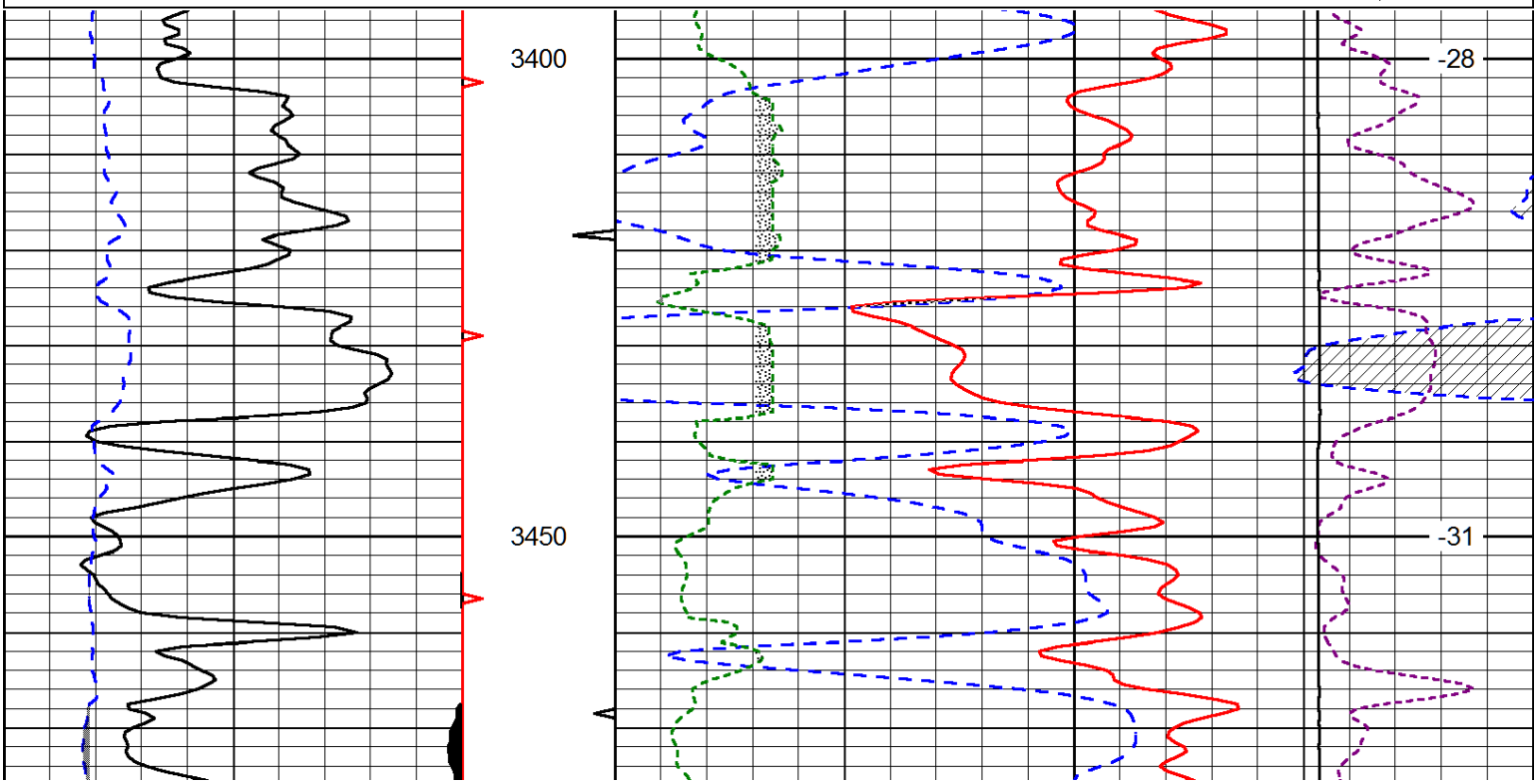

| | | |
|---|---|---|
| 0 | Gamma Ray | 150 |
| 6 | Caliper (GAPI) | 16 |

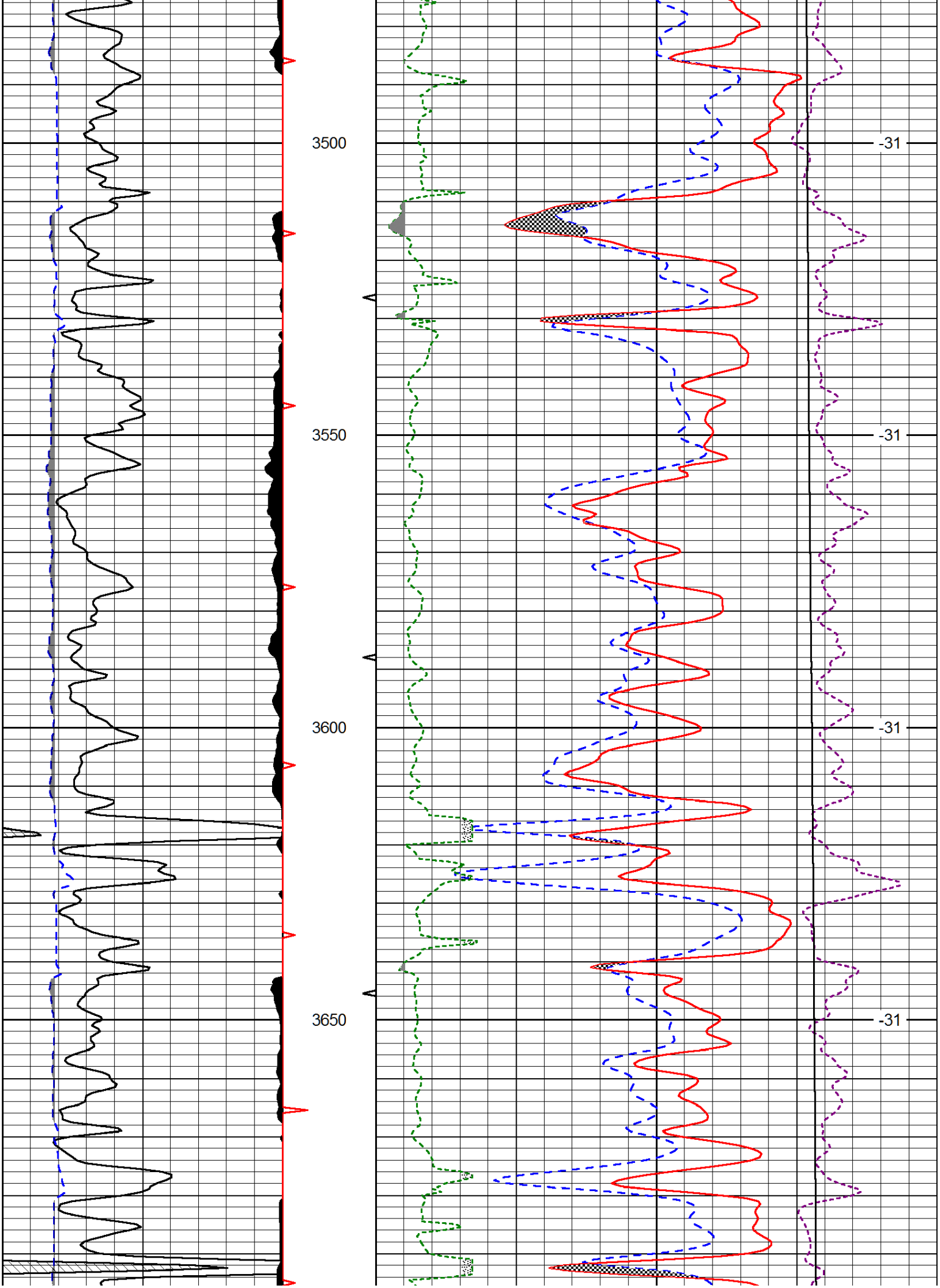
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|---|---|---|---|---|---|
| 30 | Compensated Density | | | | -10 |
| 2 | Bulk Density | | | | 3 |
| 15000 | Line Tension | | | | 0 |
| 2.625 | DGA | 3.425 | -0.25 | Correction | 0.25 |
| | | | | | LSPD |

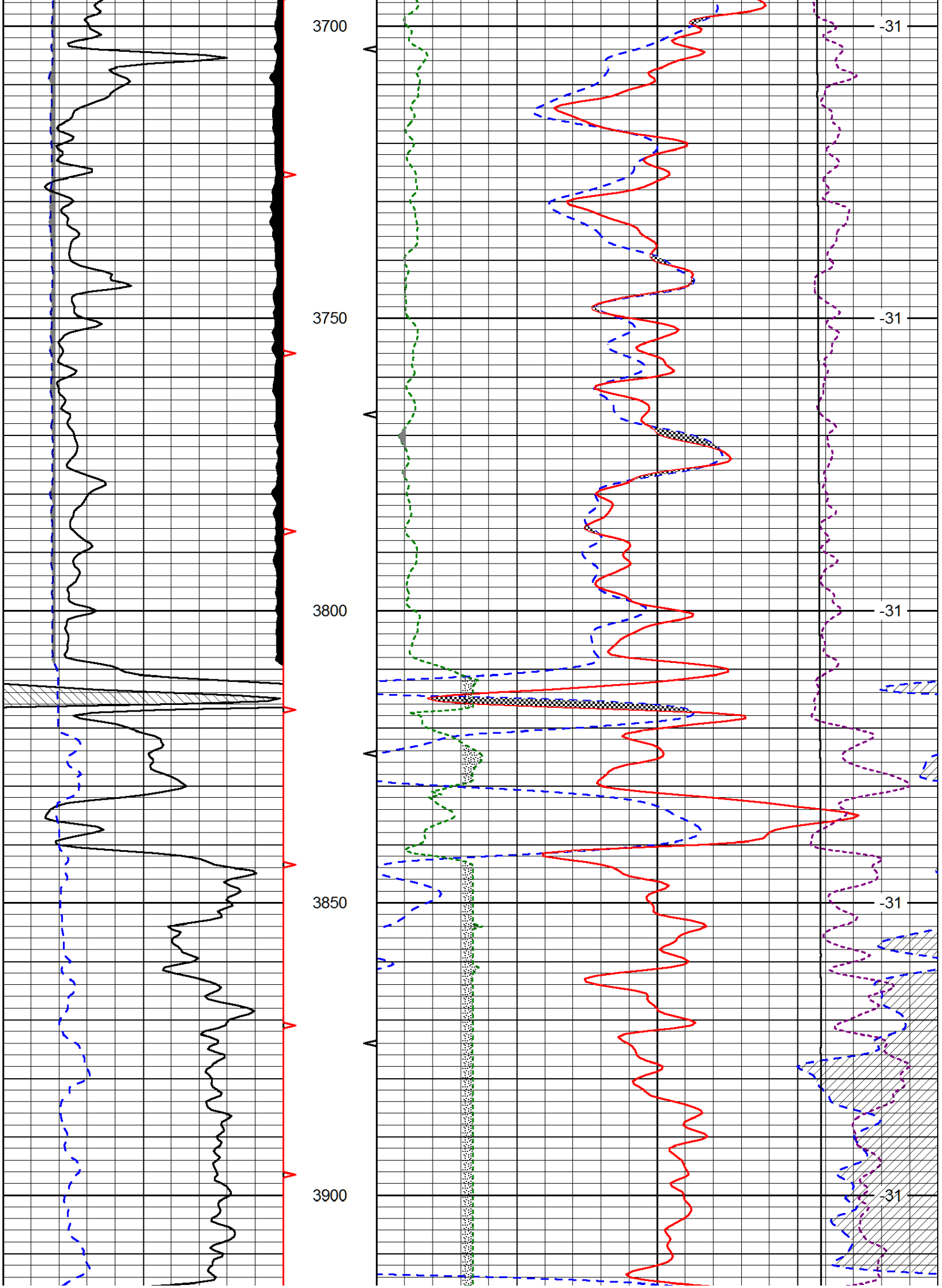
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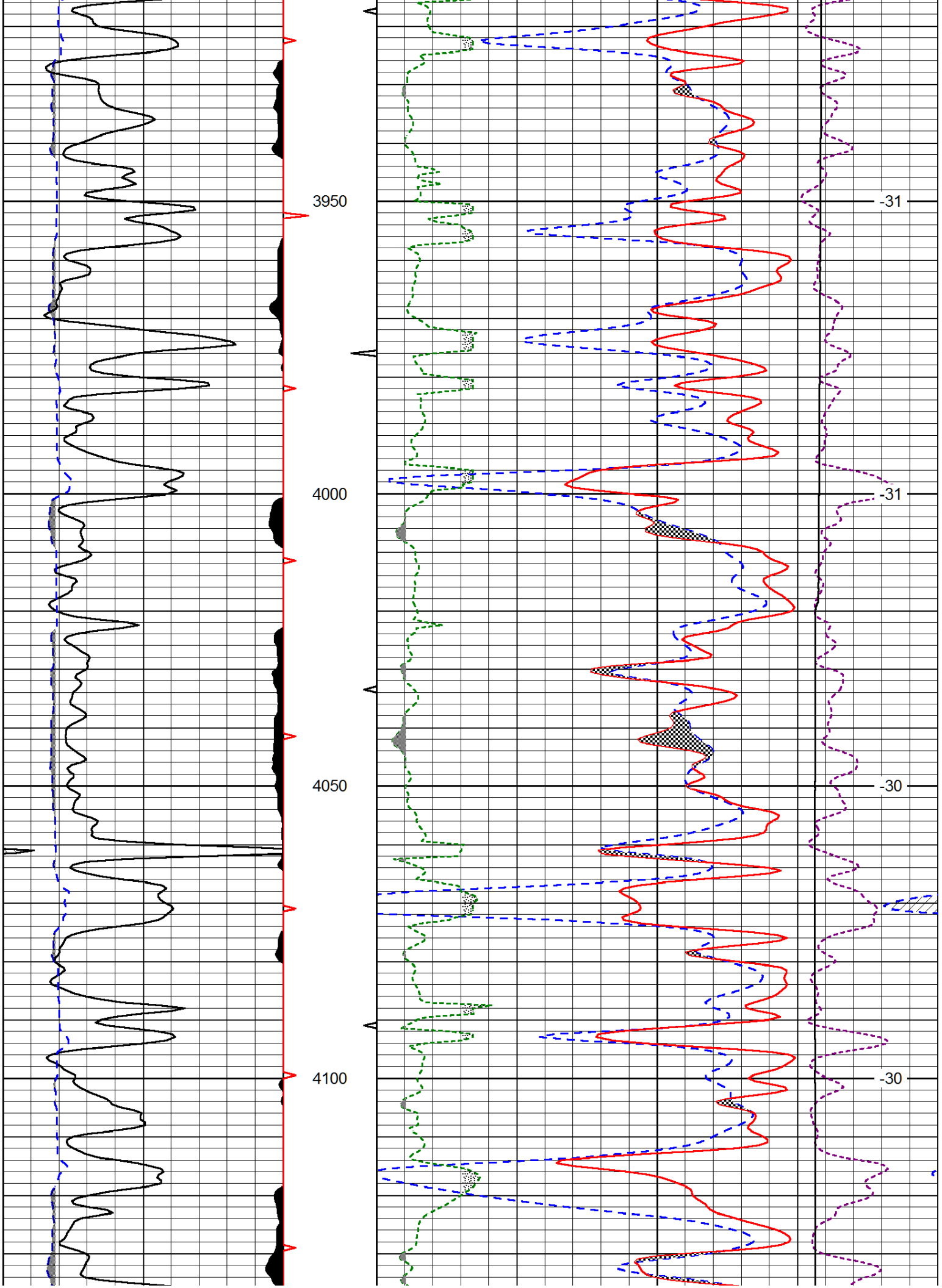
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|---|---|---|
| 0 | Gamma Ray | 150 |
| 6 | Caliper (GAPI) | 16 |

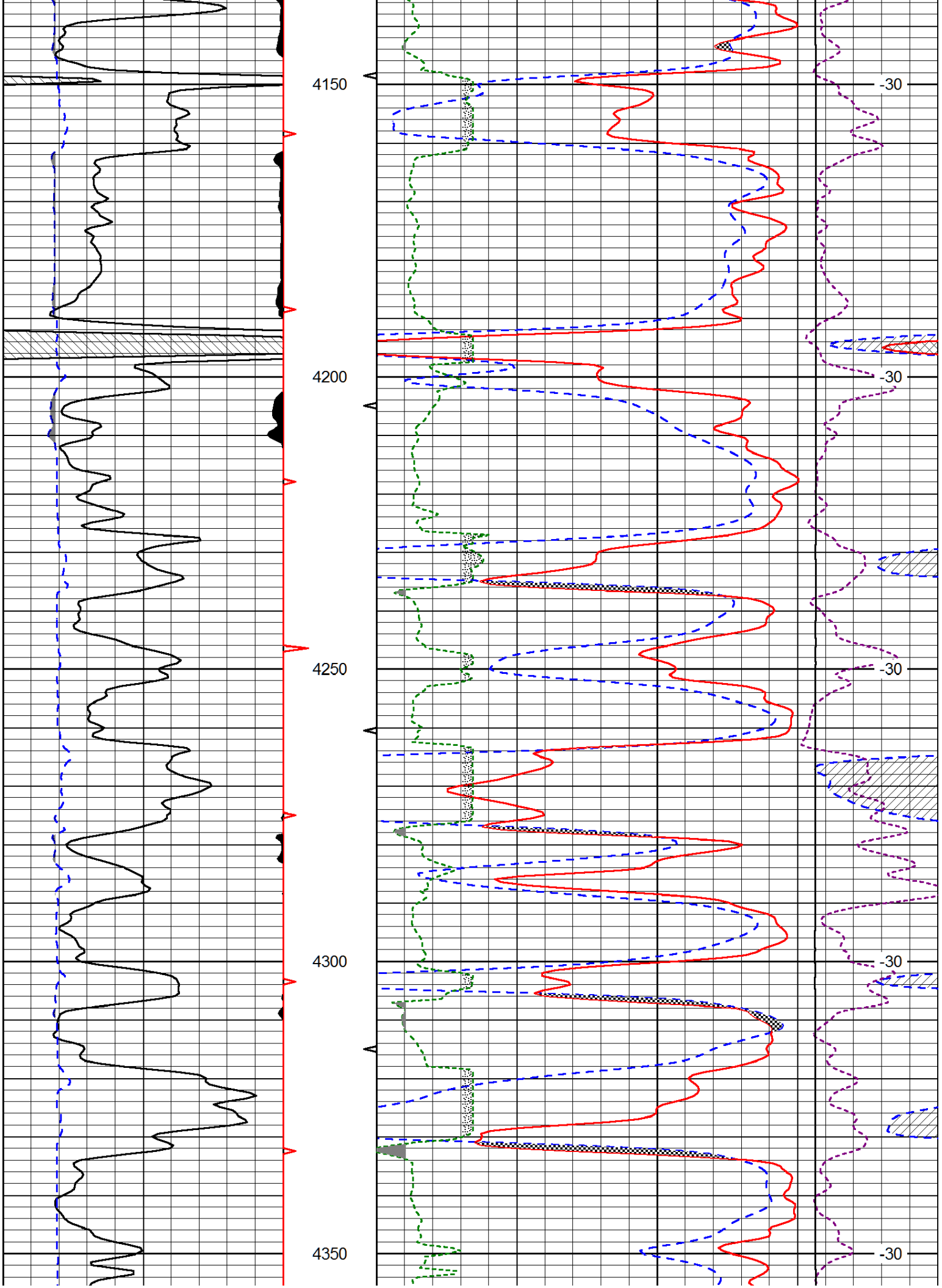
| | | | | | |
|---|---|---|---|---|---|
| 30 | CNLS | | | | -10 |
| 30 | Compensated Density (2.71 ma) | | | | -10 |
| 2.625 | DGA | 3.425 | -0.25 | Correction | 0.25 |
| 10000 | Line Tension | | | | 0 |
| | | | | | LSPD |

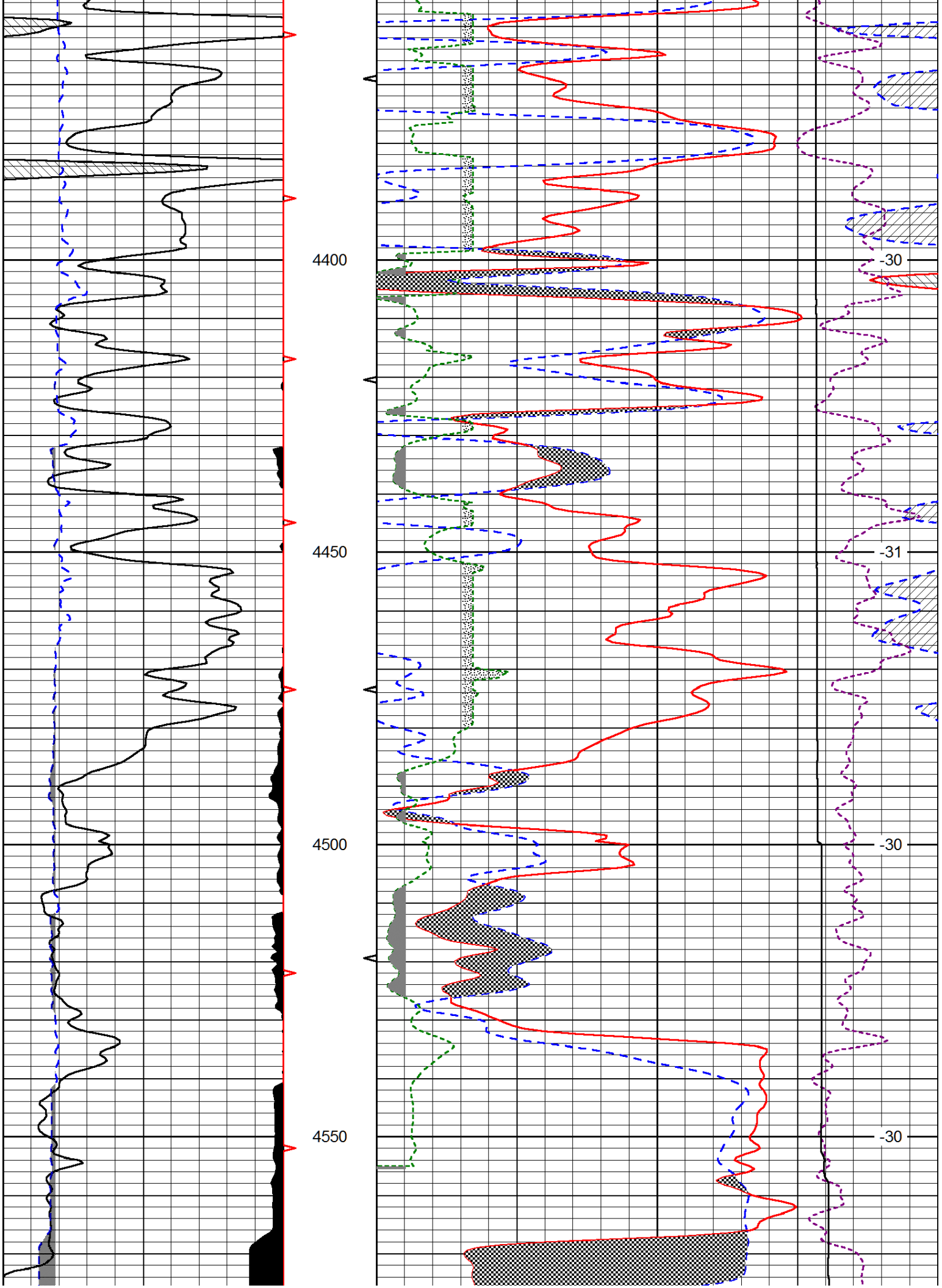


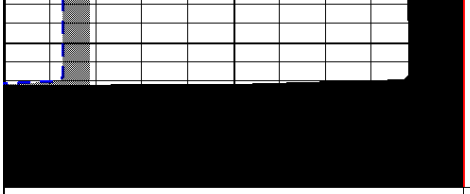

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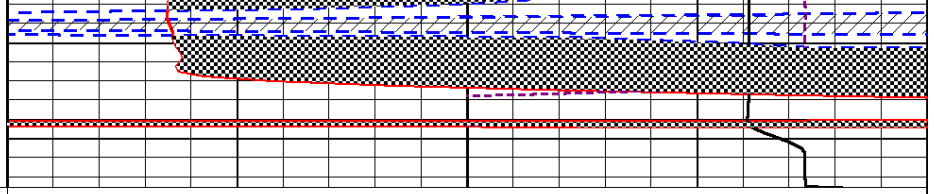

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| | | |
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| 6 | Caliper (GAPI) | 16 |



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|---|---|---|---|---|---|
| 30 | CNLS | | | | -10 |
| 30 | Compensated Density (2.71 ma) | | | | -10 |
| 2.625 | DGA | 3.425 | -0.25 | Correction | 0.25 |
| 10000 | Line Tension | | | | 0 |

LSPD