PIONEER

Pioneer Energy Services

# Dual Compensated Porosity Log

API No. 15-147-20,716-00-00

Company Bach Oil Production

Well Oxbow Unit #1

Field Wildcat

County Phillips State Kansas

Location 600' FNL & 100' FEL

Sec: 11 Twp: 1S Rge: 19W

Other Services: DIL

| | | | |
|---|---|---|---|
| Permanent Datum | Ground Level | Elevation 2004 | Elevation |
| Log Measured From | Kelly Bushing | 5 Ft. Above Perm. Datum | K.B. 2009 |
| Drilling Measured From | Kelly Bushing | | D.F. |
| | | | G.L. 2004 |

| | |
|---|---|
| Date | 8/25/2013 |
| Run Number | One |
| Type Log | CNL / CDL |
| Depth Driller | 3501 |
| Depth Logger | 3500 |
| Bottom Logged Interval | 3479 |
| Top Logged Interval | 2900 |
| Type Fluid In Hole | Chemical |
| Salinity, PPM CL | 500 |
| Density | 9.1 |
| Level | Full |
| Max. Rec. Temp. F | 111 |
| Operating Rig Time | 2 1/2 Hours |
| Equipment -- Location | 17 Hays |
| Recorded By | C. Desaire |
| Witnessed By | Bob Petersen |

Borehole Record

| Run No. | Bit | From | To |
|---|---|---|---|
| 1 | 12.25 | 00 | 222 |
| 2 | 7.875 | 222 | 3501 |

Casing Record

| Size | Wgt. | From | To |
|---|---|---|---|
| 8.625 | 24# | 00 | 222 |

<<< Fold Here >>>

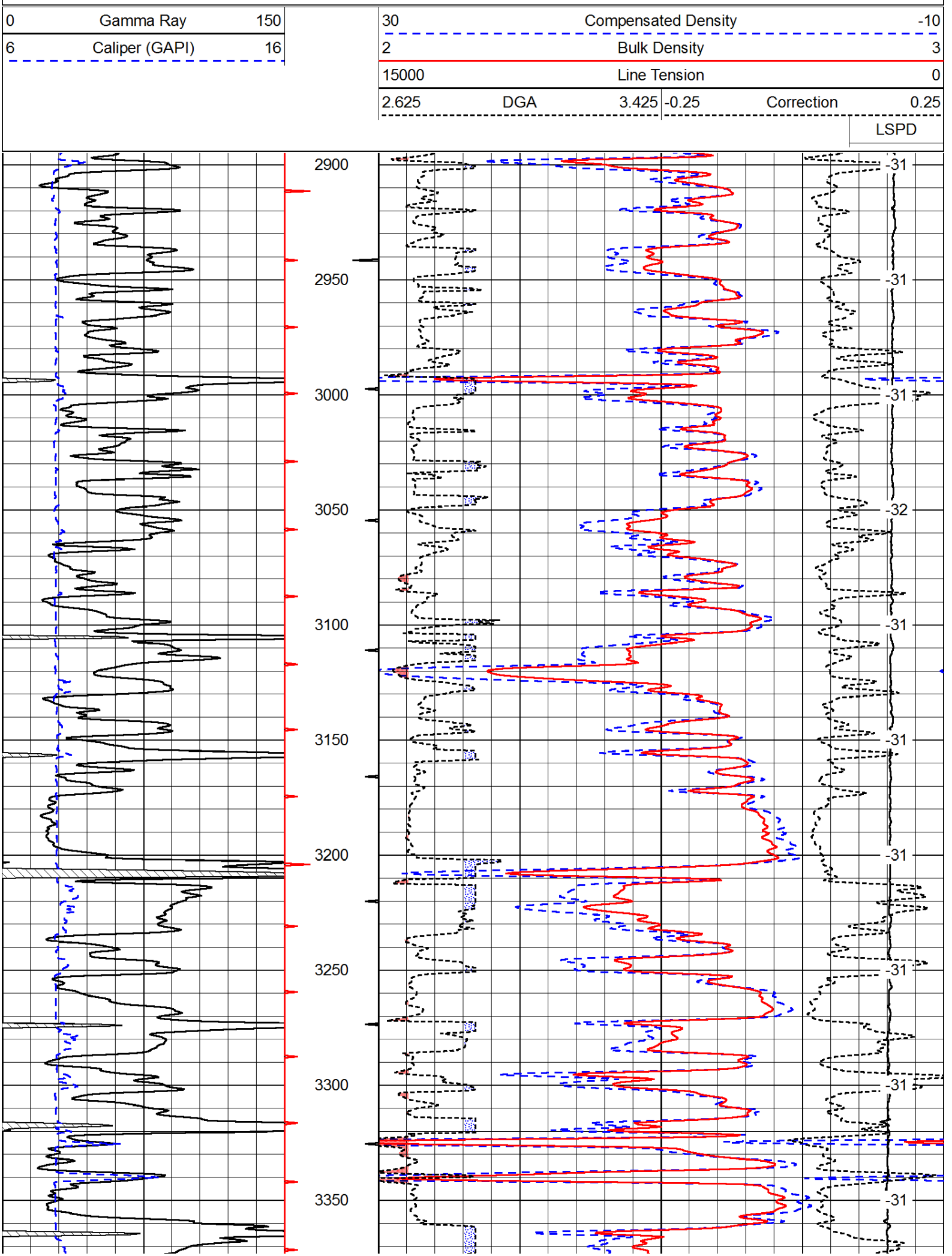
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

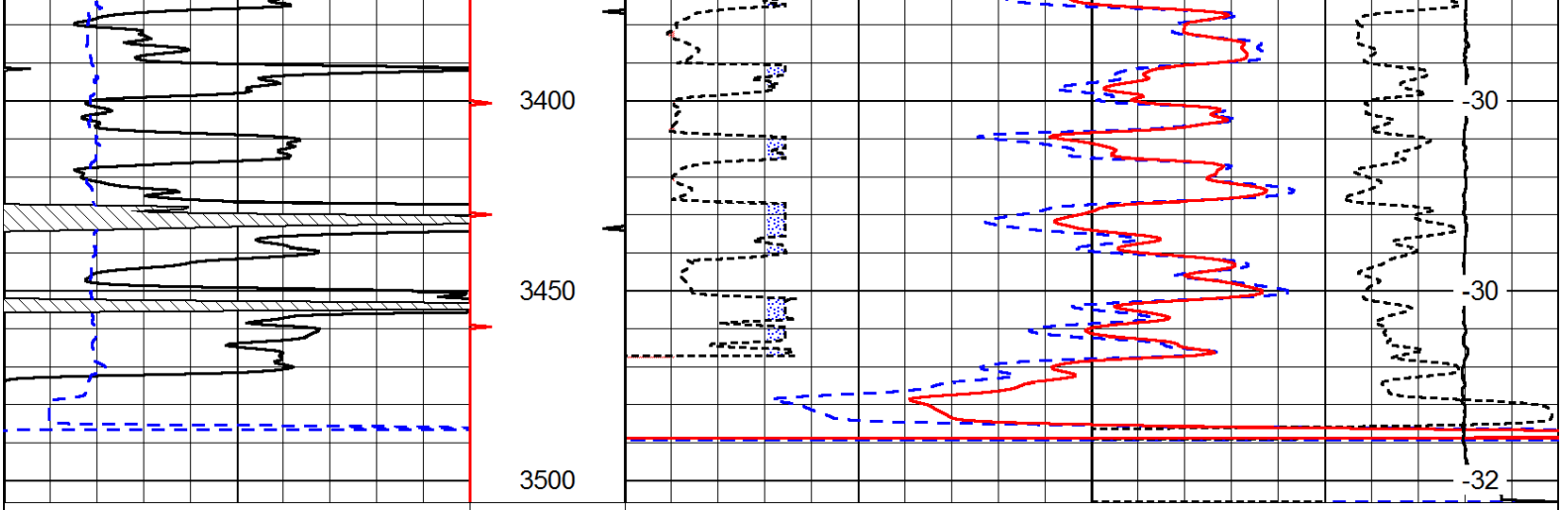
## Comments

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

Phillipsburg KS, N to Hwy 183/383 Junc.
3 W to 500 Rd, 1/2 S W Into

| | |
|---|---|
| Database File: | c:\warrior\data\bach_oxbow unit #1\bachhd.db |
| Dataset Pathname: | dil/bachstk |
| Presentation Format: | cdl |
| Dataset Creation: | Sun Aug 25 02:54:40 2013 |
| 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
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350
-31
-31
-31
-32
-31
-31
-31
-31
-31



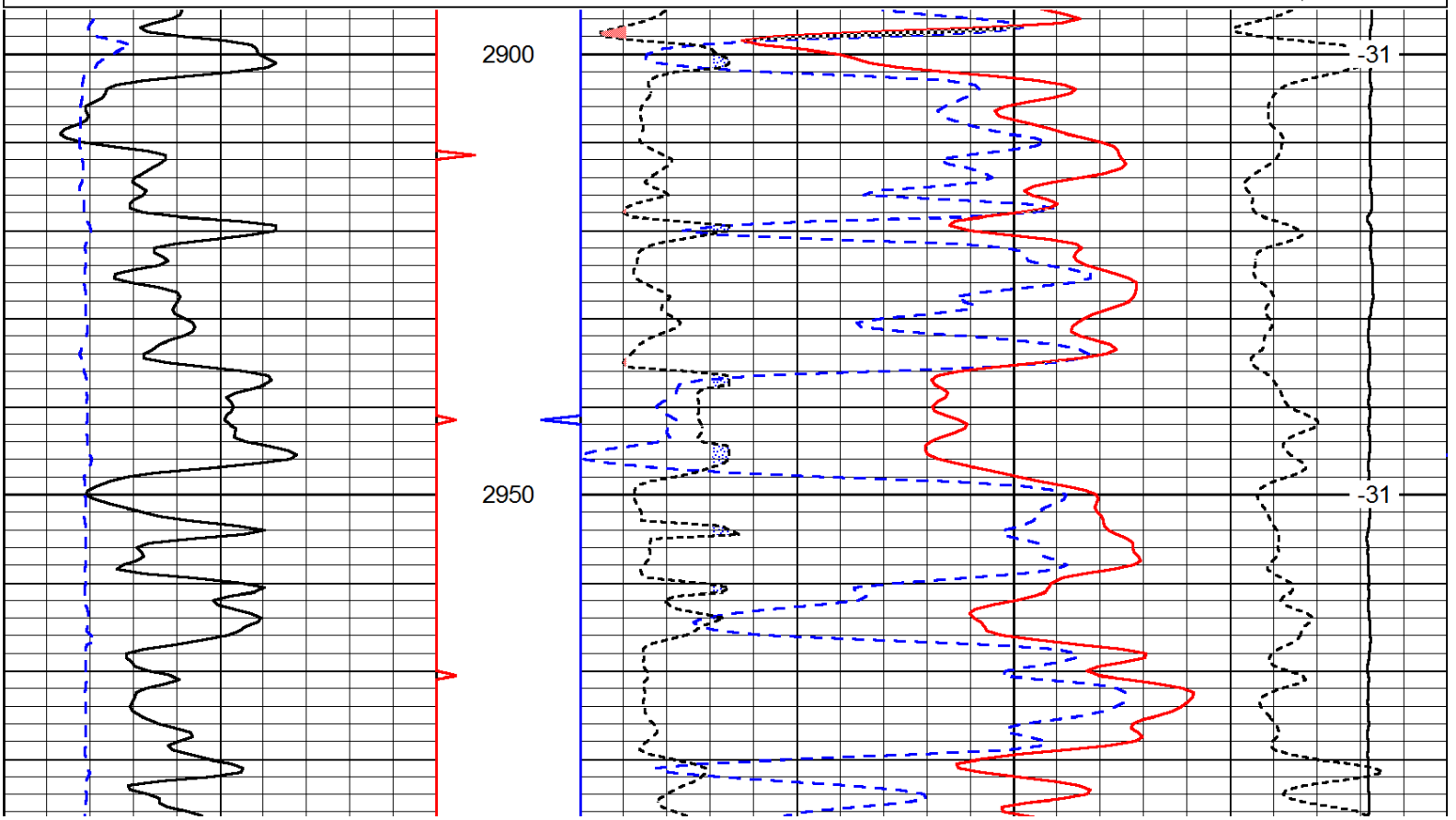

| | | |
|---|---|---|
| 0 | Gamma Ray | 150 |
| 6 | Caliper (GAPI) | 16 |

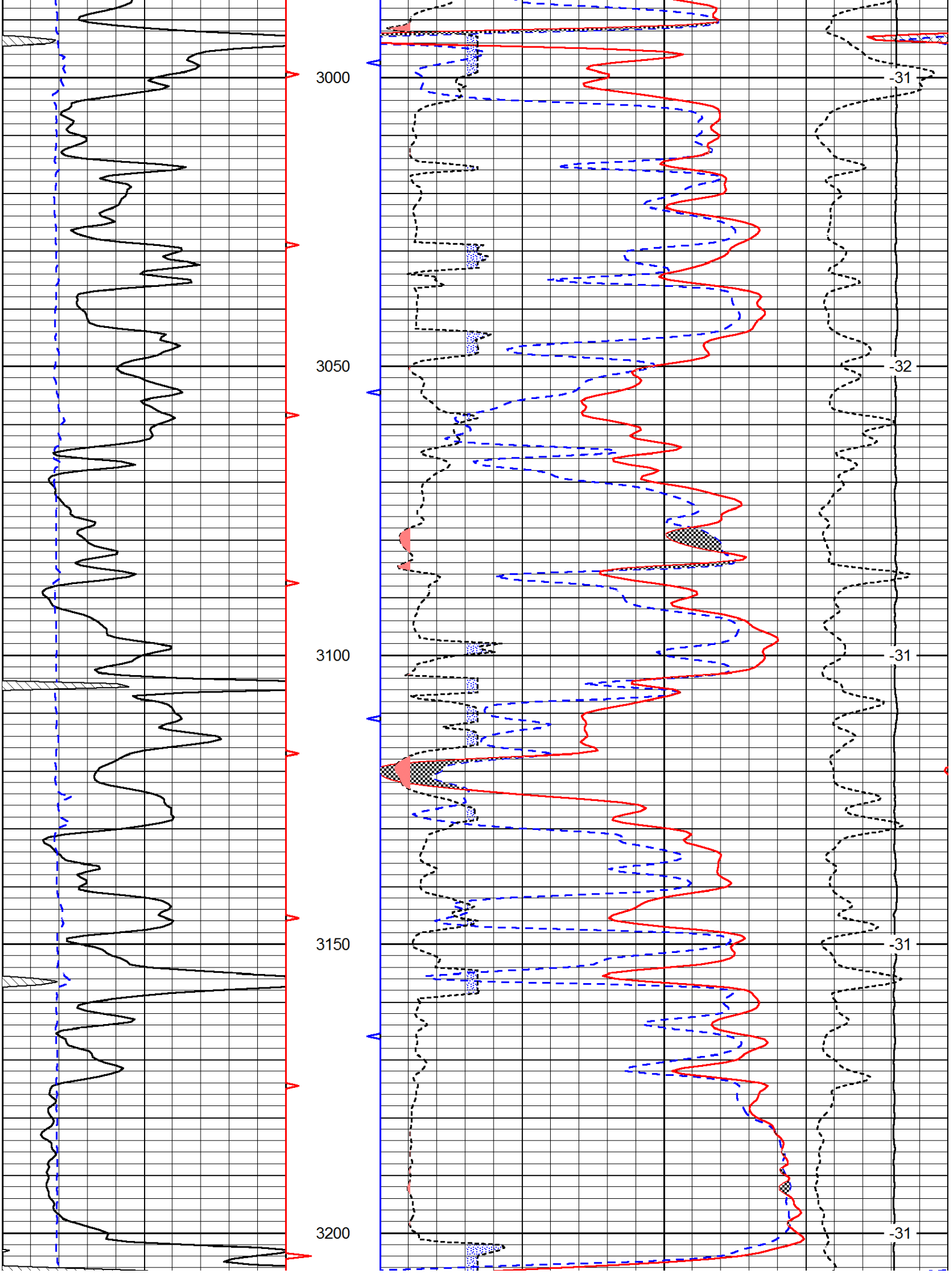
| | | | | | |
|---|---|---|---|---|---|
| 30 | Compensated Density | | | | -10 |
| 2 | Bulk Density | | | | 3 |
| 15000 | Line Tension | | | | 0 |
| 2.625 | DGA | 3.425 | -0.25 | Correction | 0.25 |
| | | | | | LSPD |

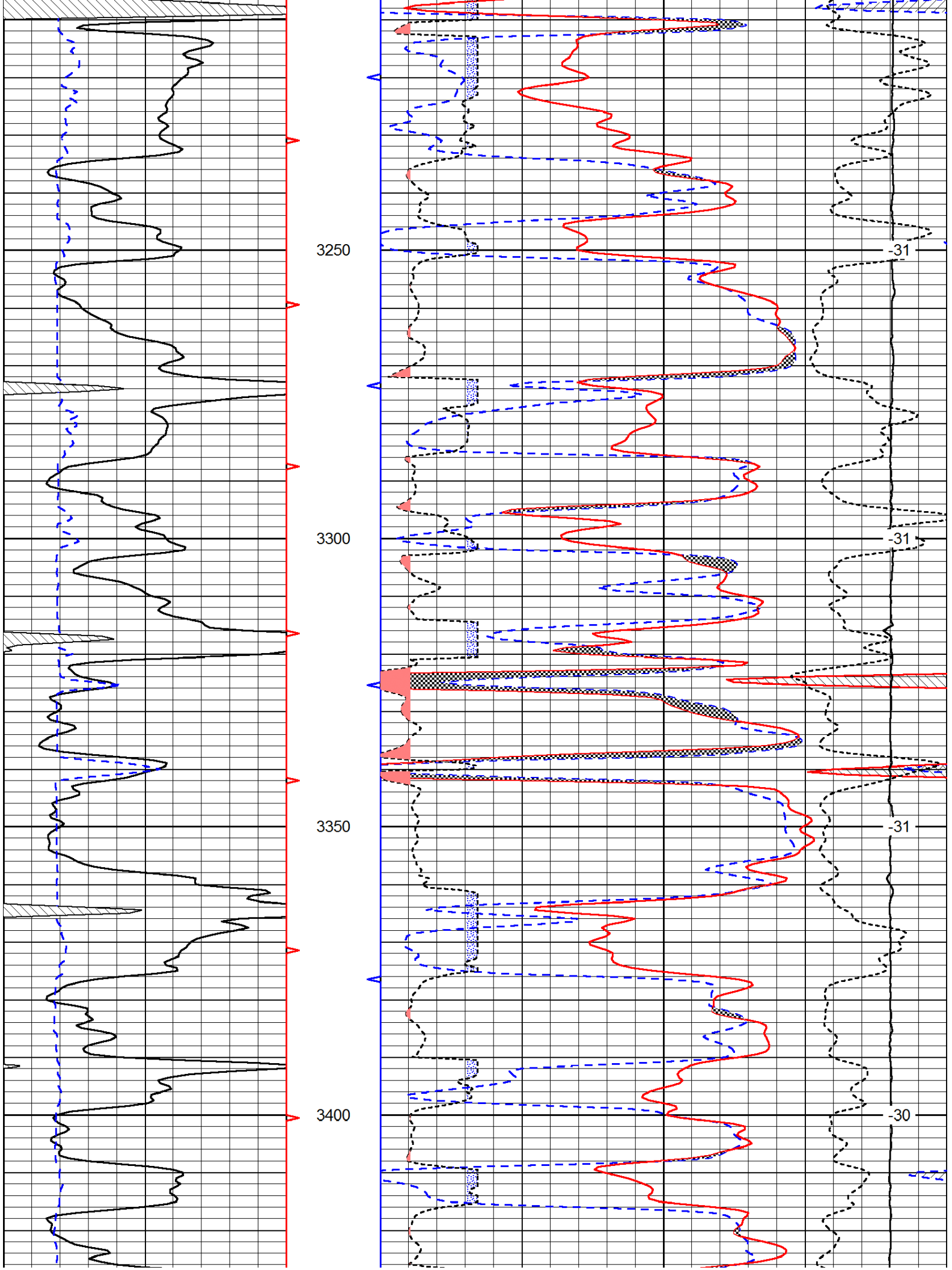
Database File: c:\warrior\data\bach_oxbow unit #1\bachhd.db
Dataset Pathname: dil/bachstk
Presentation Format: cndlspec
Dataset Creation: Sun Aug 25 02:54:40 2013
Charted by: Depth in Feet scaled 1:240

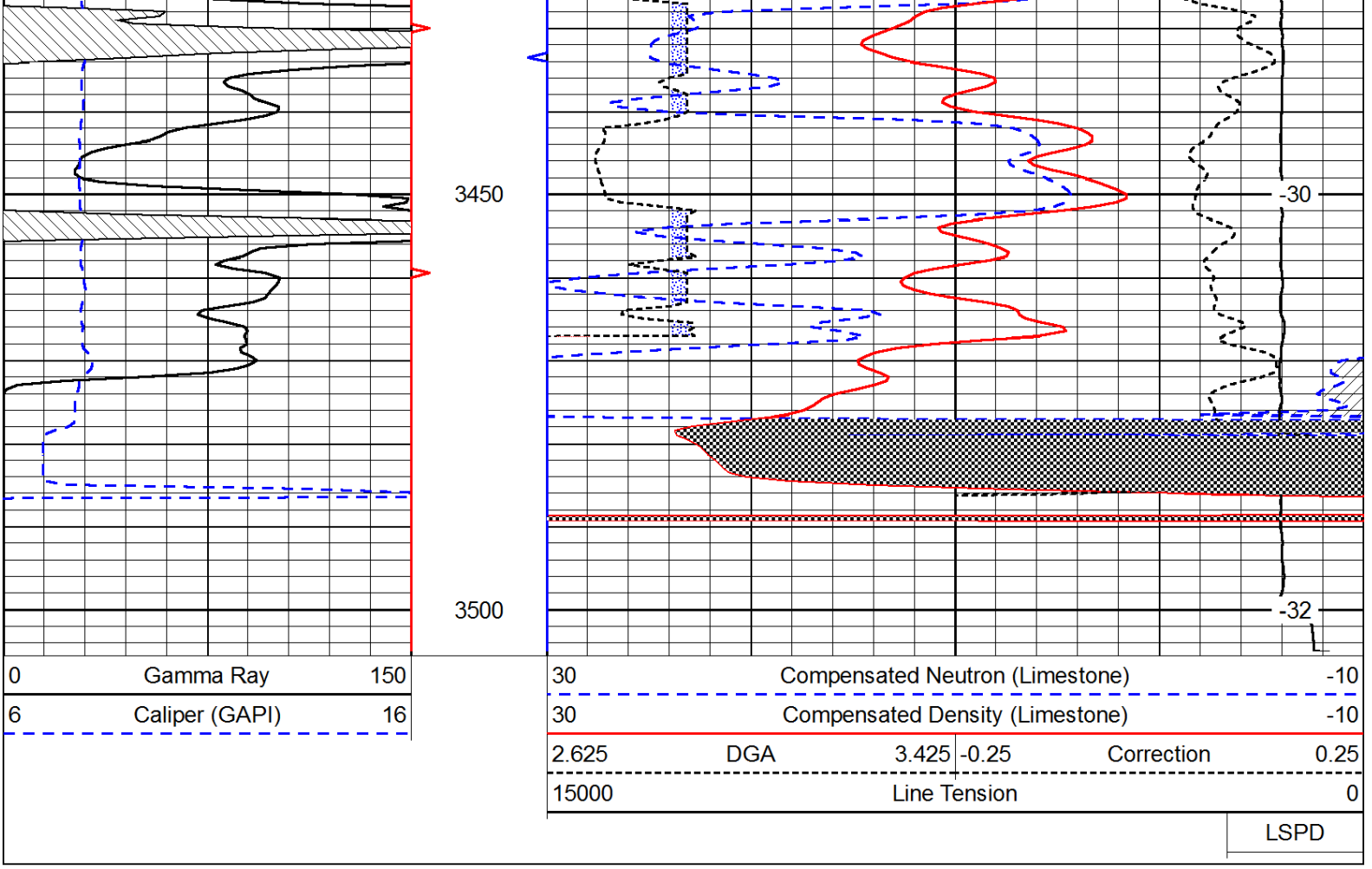
| | | |
|---|---|---|
| 0 | Gamma Ray | 150 |
| 6 | Caliper (GAPI) | 16 |

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




3000
3050
3100
3150
3200
-31
-32
-31
-31
-31


3250
3300
3350
3400
-31
-31
-31
-30


3450
3500
-30
-32
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