# LOG-TECH

DIGITAL LOG (785) 625-3858

# Microresistivity Log

API No. 15-065-23800-00-00

Company Murfin Drilling Company, Inc.

Well Ruder Unit No. 1-36

Field Wildcat

County Graham State Kansas

Location SW - SW - NW - SE
1430' FSL & 2600' FEL

Sec: 36 Twp: 10 S Rge: 24 W

Other Services
CNL/CDL
DIL/BHCS

Elevation
K.B. 2360
D.F.
G.L. 2355

Permanent Datum Ground Level
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

| | | | | |
|---|---|---|---|---|
| Date | 1/22/2012 | | | |
| Run Number | Two | | | |
| Depth Driller | 4325 | | | |
| Depth Logger | 4327 | | | |
| Bottom Logged Interval | 4326 | | | |
| Top Log Interval | 3300 | | | |
| Casing Driller | 8.625 @ 219 | | | |
| Casing Logger | 220 | | | |
| Bit Size | 7.875 | | | |
| Type Fluid in Hole | Chemical | | | |
| Salinity,ppm CL | 1800 | | | |
| Density / Viscosity | 9.1 60 | | | |
| pH / Fluid Loss | 10.5 6.0 | | | |
| Source of Sample | Flowline | | | |
| Rm @ Meas. Temp | 1.10 @ 45 | | | |
| Rmf @ Meas. Temp | 0.83 @ 45 | | | |
| Rmc @ Meas. Temp | 1.49 @ 45 | | | |
| Source of Rmf / Rmc | Charts | | | |
| Rm @ BHT | 0.41 @ 121 | | | |
| Operating Rig Time | 5 Hours | | | |
| Max Rec. Temp. F | 121 | | | |
| Equipment Number | 91 | | | |
| Location | Hays | | | |
| Recorded By | B. Becker | | | |
| Witnessed By | Vern Schrag | | | |

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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

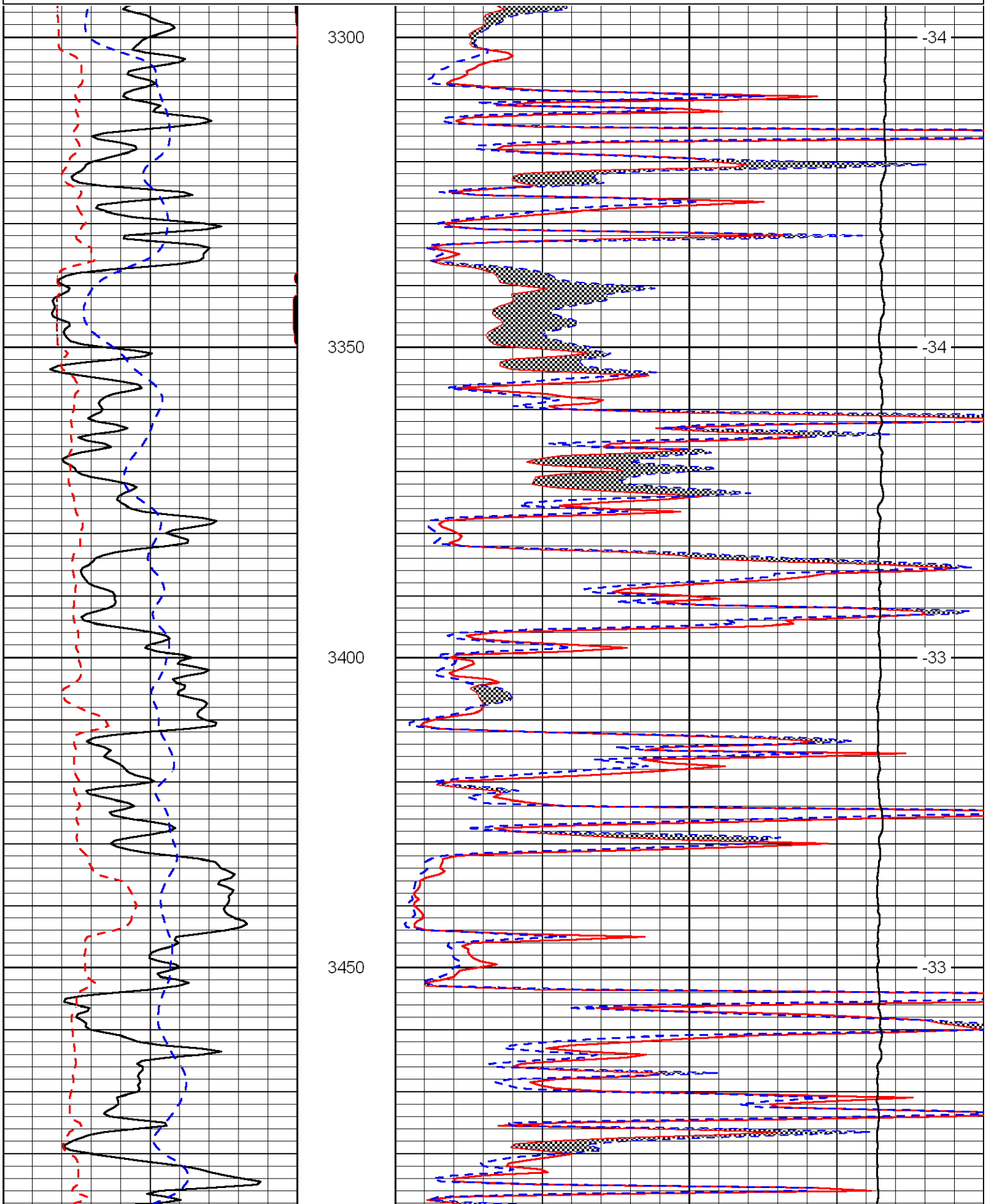
Wakeeney, Ks; North to B Rd;
5 West to 120 Rd; 1 North; 3/4 East;
Northeast to location

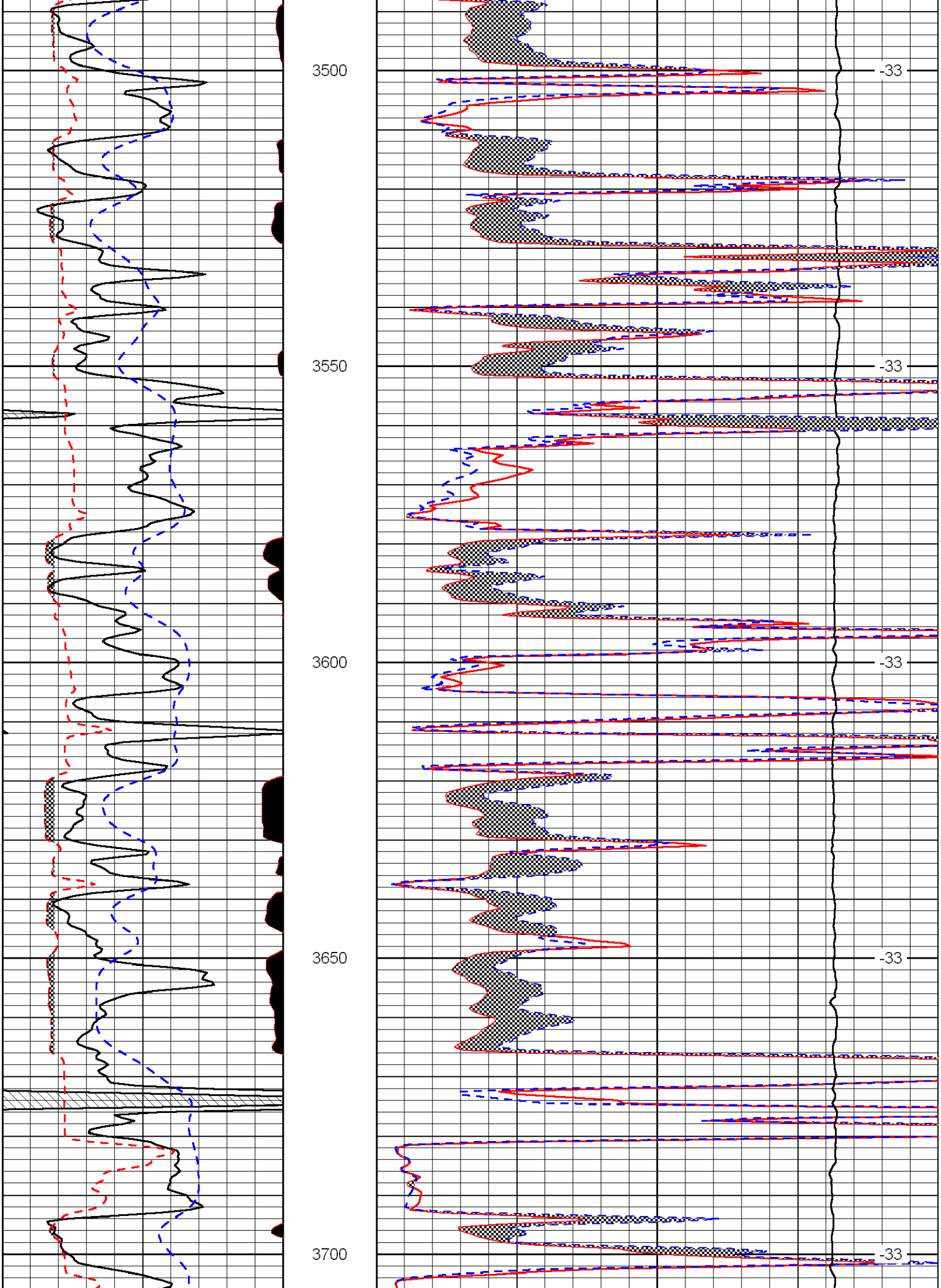
Database File: murfinhd2.db
Dataset Pathname: DIL/murfstk2
Presentation Format: micro
Dataset Creation: Sun Jan 22 13:16:05 2012
Charted by: Depth in Feet scaled 1:240

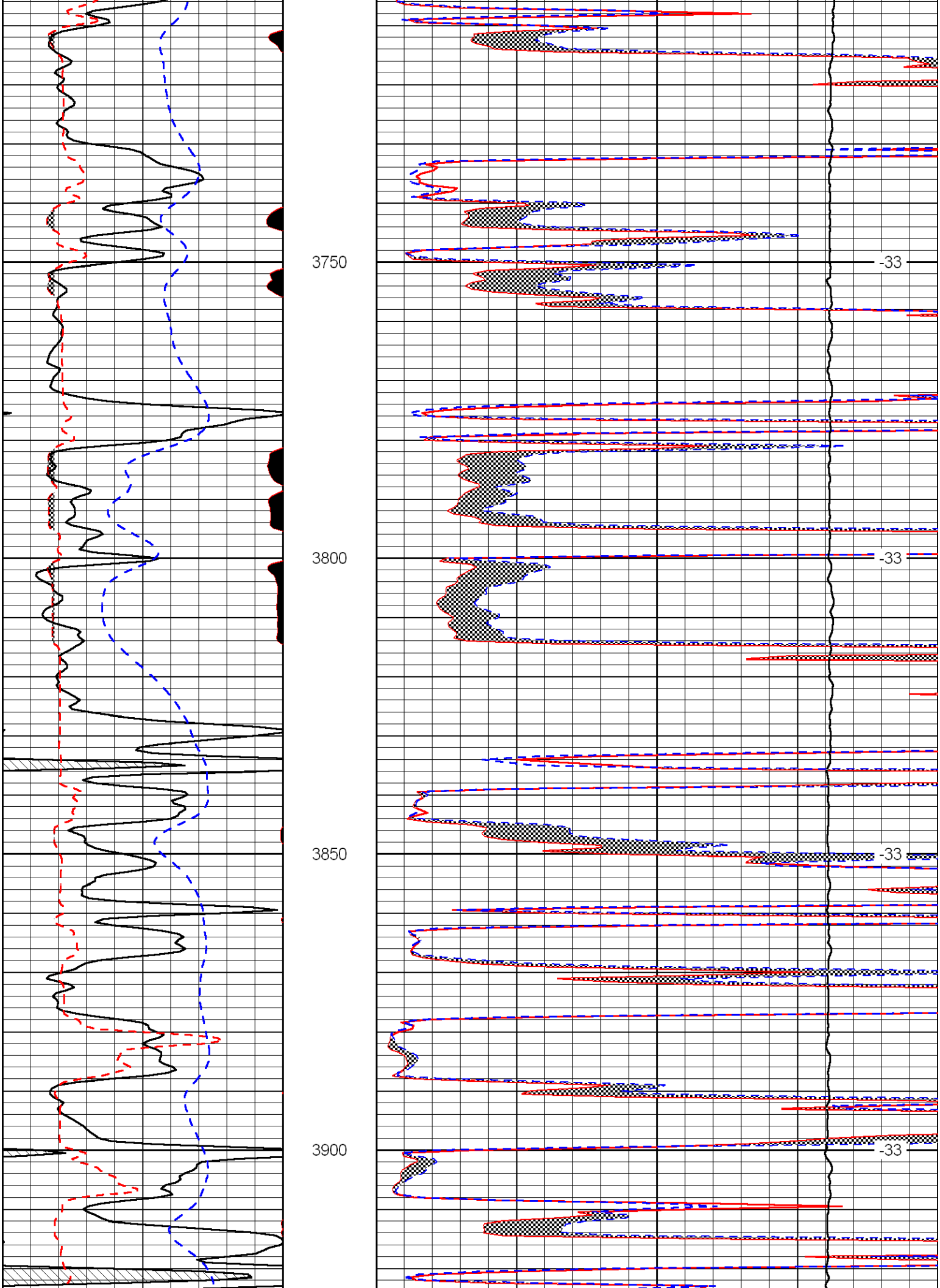
| | | |
|---|---|---|
| 0 | Gamma Ray | 150 |
| 6 | MCAL (GAPI) | 16 |
| 2.875 | Mud Cake (GAPI) | 7.875 |
| -200 | SP | 0 |

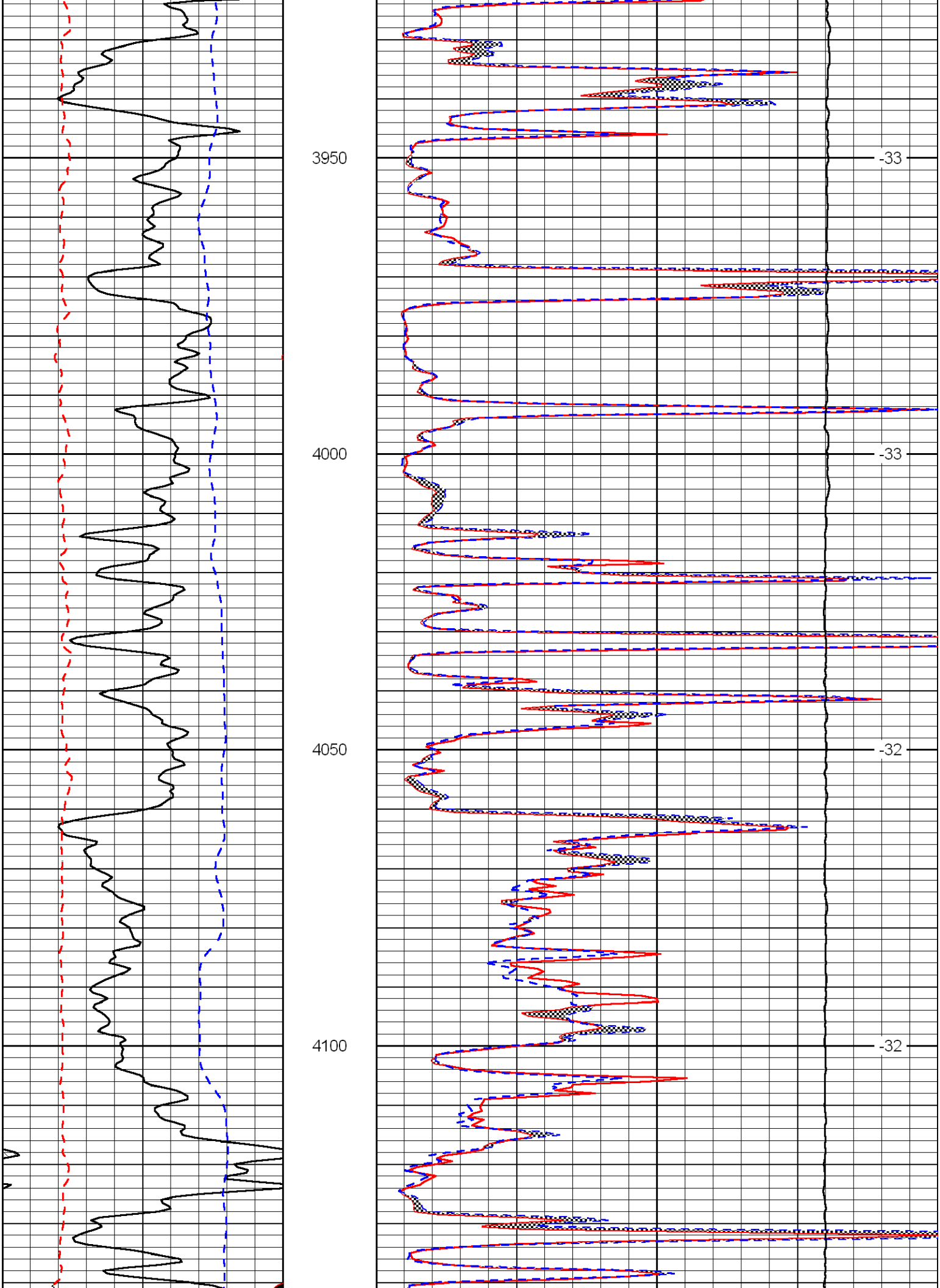
| | | |
|---|---|---|
| 0 | Micro Inverese 1 X 1 | 40 |
| 0 | Micro Normal 2'' | 40 |
| 10000 | Line Weight | 0 |

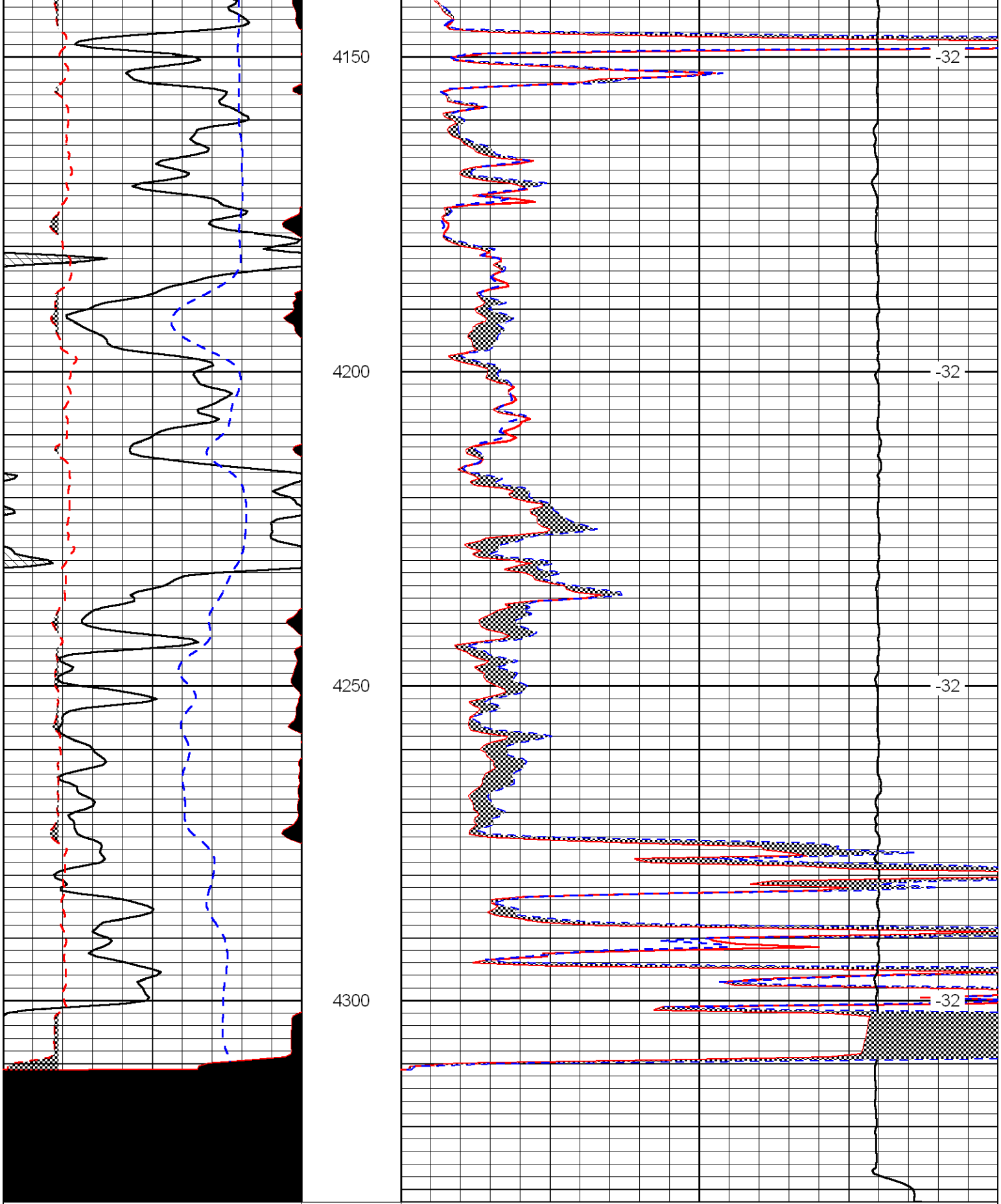
LSPD




3500
3550
3600
3650
3700
-33
-33
-33
-33
-33


3750
-33
3800
-33
3850
-33
3900
-33


3950
4000
4050
4100
-33
-33
-32
-32




| | | |
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LSPD