PIONEER

Pioneer Energy Services

# Borehole Compensated Sonic Log

API No. 15-007-23,951-00-00

Company White Exploration, Inc.

Well Chain Ranch "B" No.1

Field Amber Creek

County Barber State Kansas

Location 475' FNL & 1916' FWL

Sec: 1 Twp: 31S Rge: 12W

Other Services
CNL/CDL
MEL/DIL

Elevation
K.B. 1655
D.F.
G.L. 1645

Permanent Datum Ground Level Elevation 1645
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

| | |
|---|---|
| Date | 10/7/2012 |
| Run Number | Two |
| Type Log | BHC Sonic |
| Depth Driller | 4765 |
| Depth Logger | 4769 |
| Bottom Logged Interval | 4758 |
| Top Logged Interval | 3000 |
| Type Fluid In Hole | Chemical |
| Salinity, PPM CL | 8,000 |
| Density | 9.6 |
| Level | Full |
| Max. Rec. Temp. F | 124 |
| Operating Rig Time | 5 Hours |
| Equipment -- Location | 17 Hays |
| Recorded By | C. Desaire |
| Witnessed By | Tom Williams |

Borehole Record

| Run No. | Bit | From | To |
|---|---|---|---|
| 1 | 12.25 | 00 | 307 |
| 2 | 7.875 | 307 | 4765 |

Casing Record

| Size | Wgt. | From | To |
|---|---|---|---|
| 8.625 | 24# | 00 | 307 |

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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.

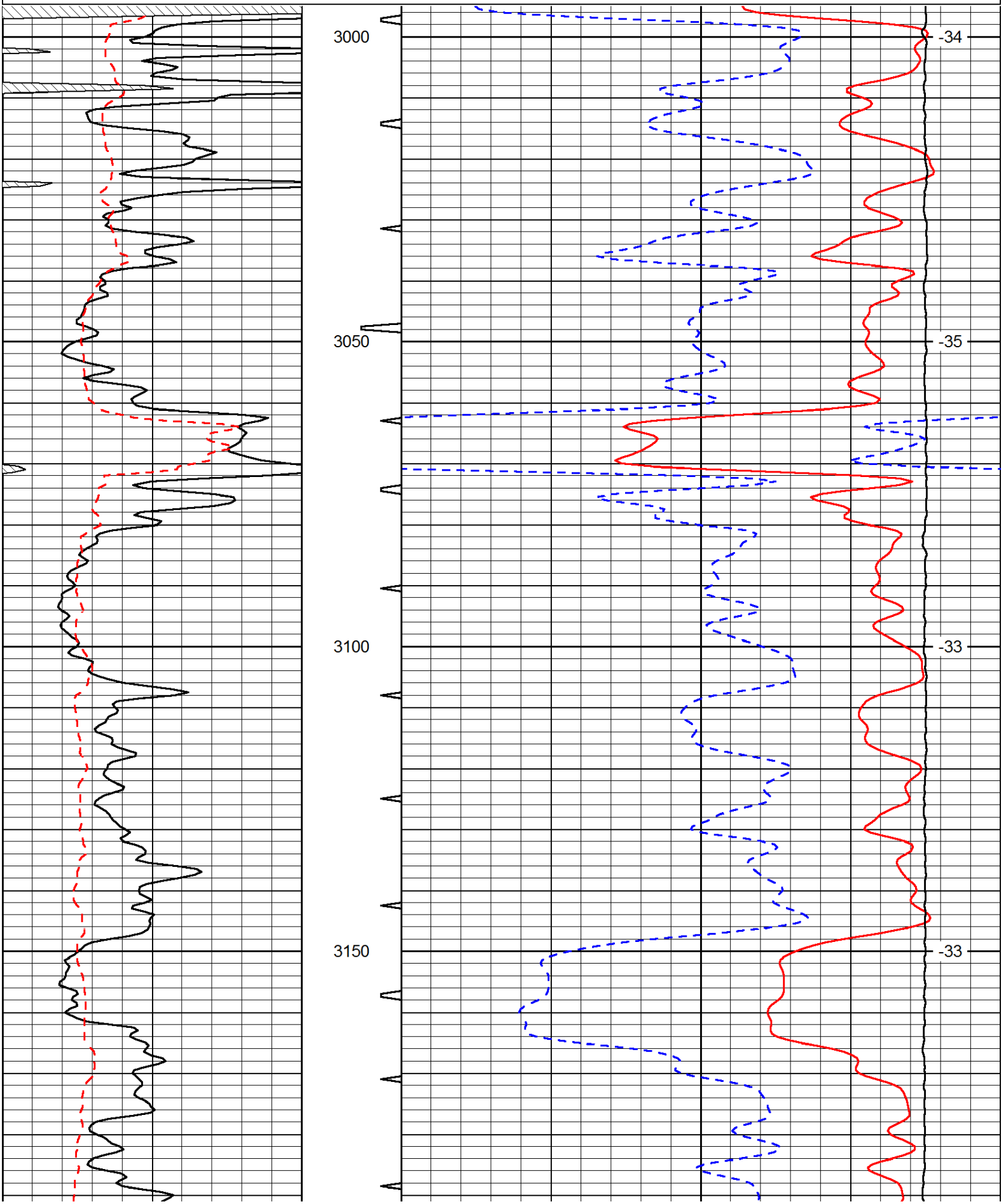
## Comments

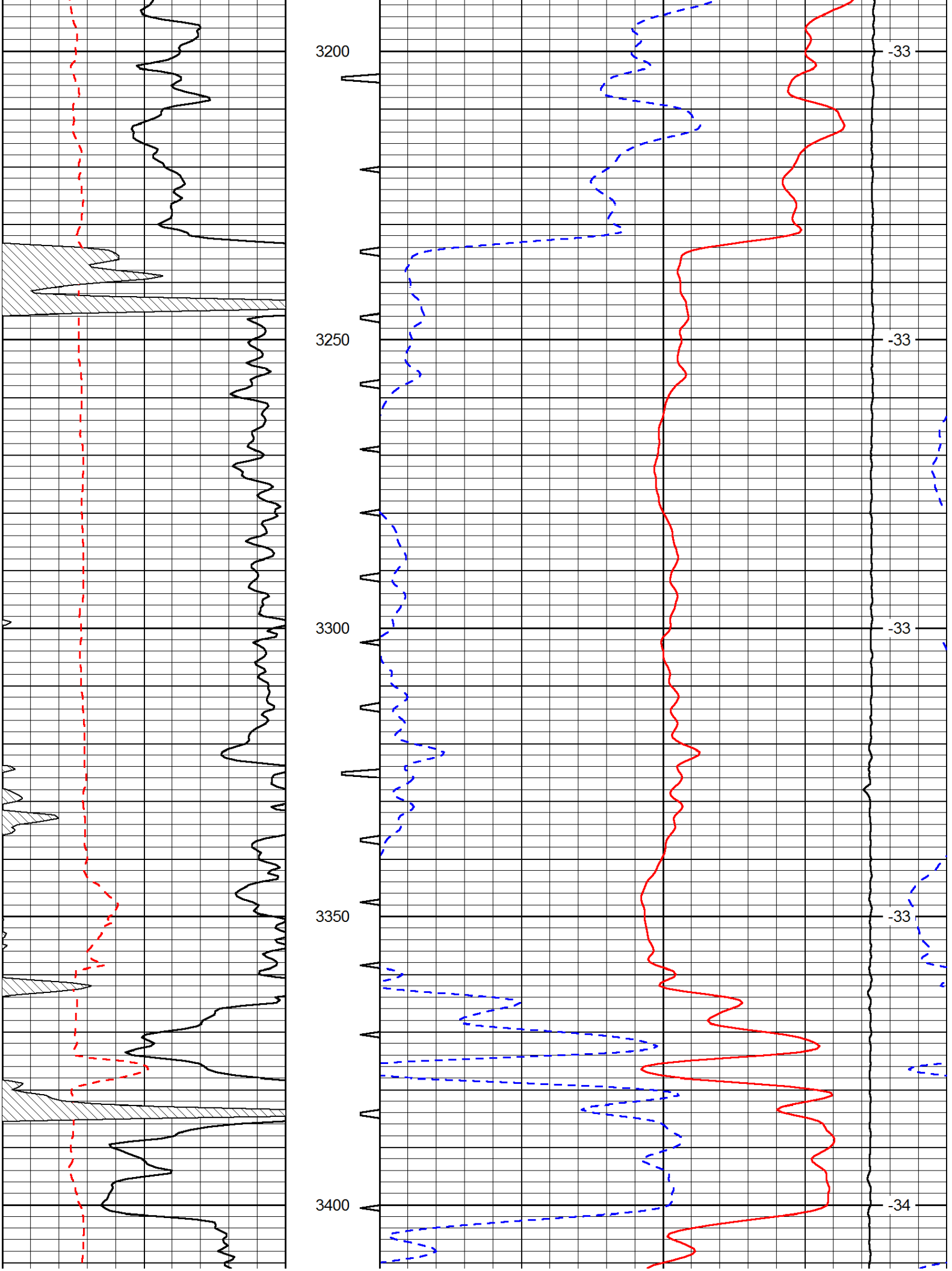
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www.pioneeres.com
785 625 3858

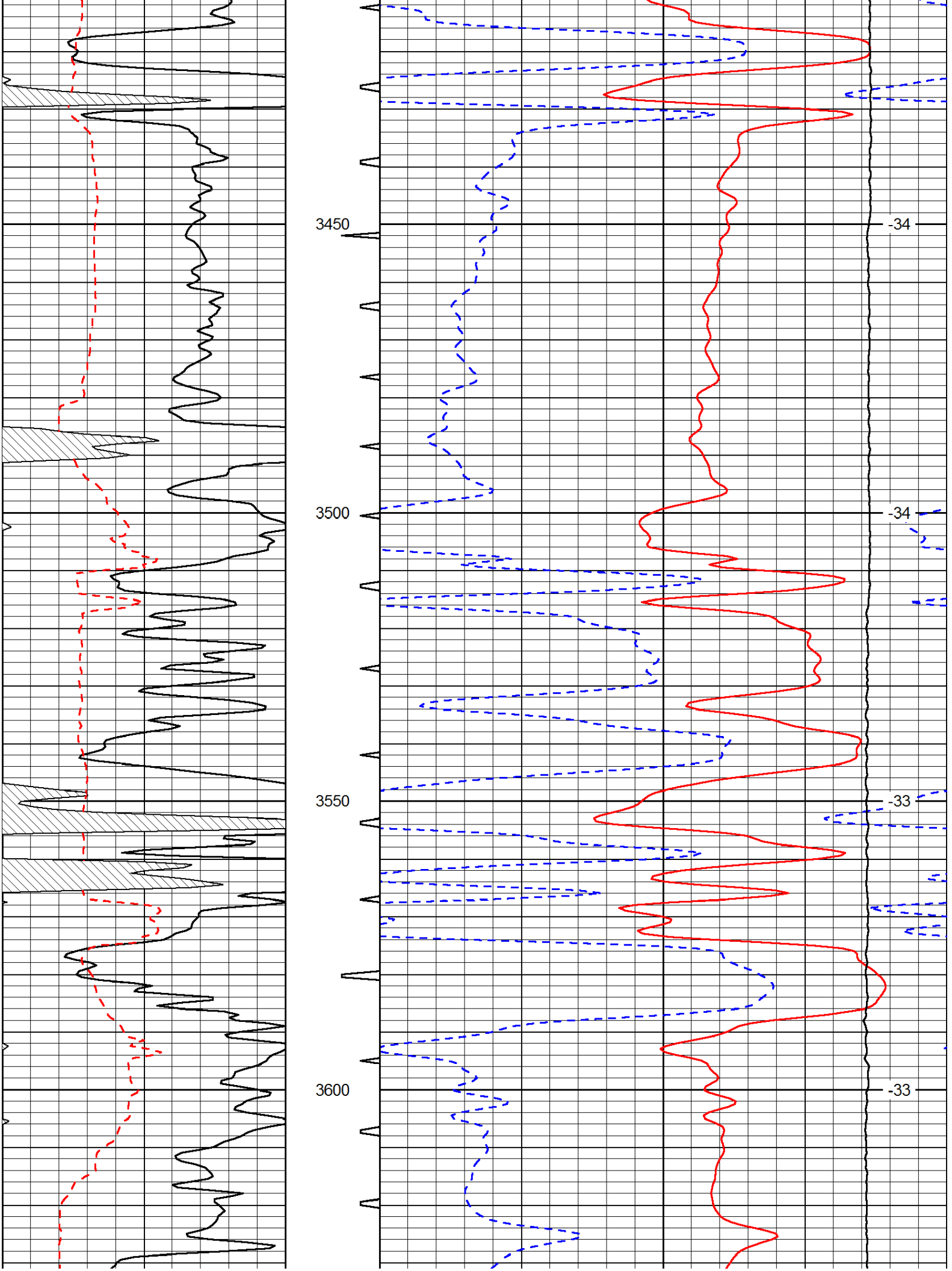
Medicine Lodge KS, N to 99 Springs,
E to Gillardi Rd, 1/4 S, W Into

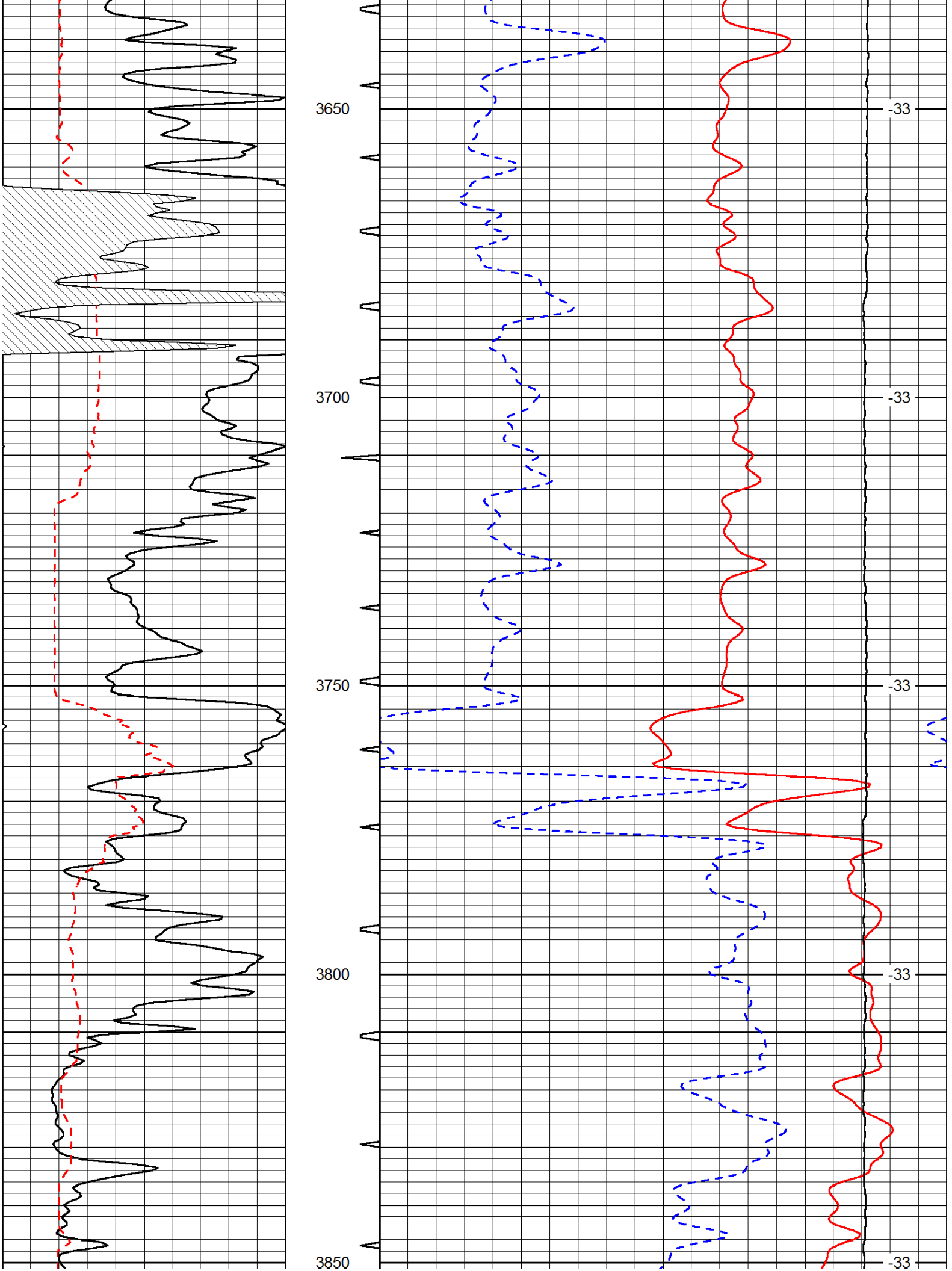
| | |
|---|---|
| Database File: | c:\warrior\data\white exp_chain ranch b no.1\whitehd.db |
| Dataset Pathname: | dil/whtstk |
| Presentation Format: | sonic |
| Dataset Creation: | Sun Oct 07 19:55:32 2012 |
| Charted by: | Depth in Feet scaled 1:240 |

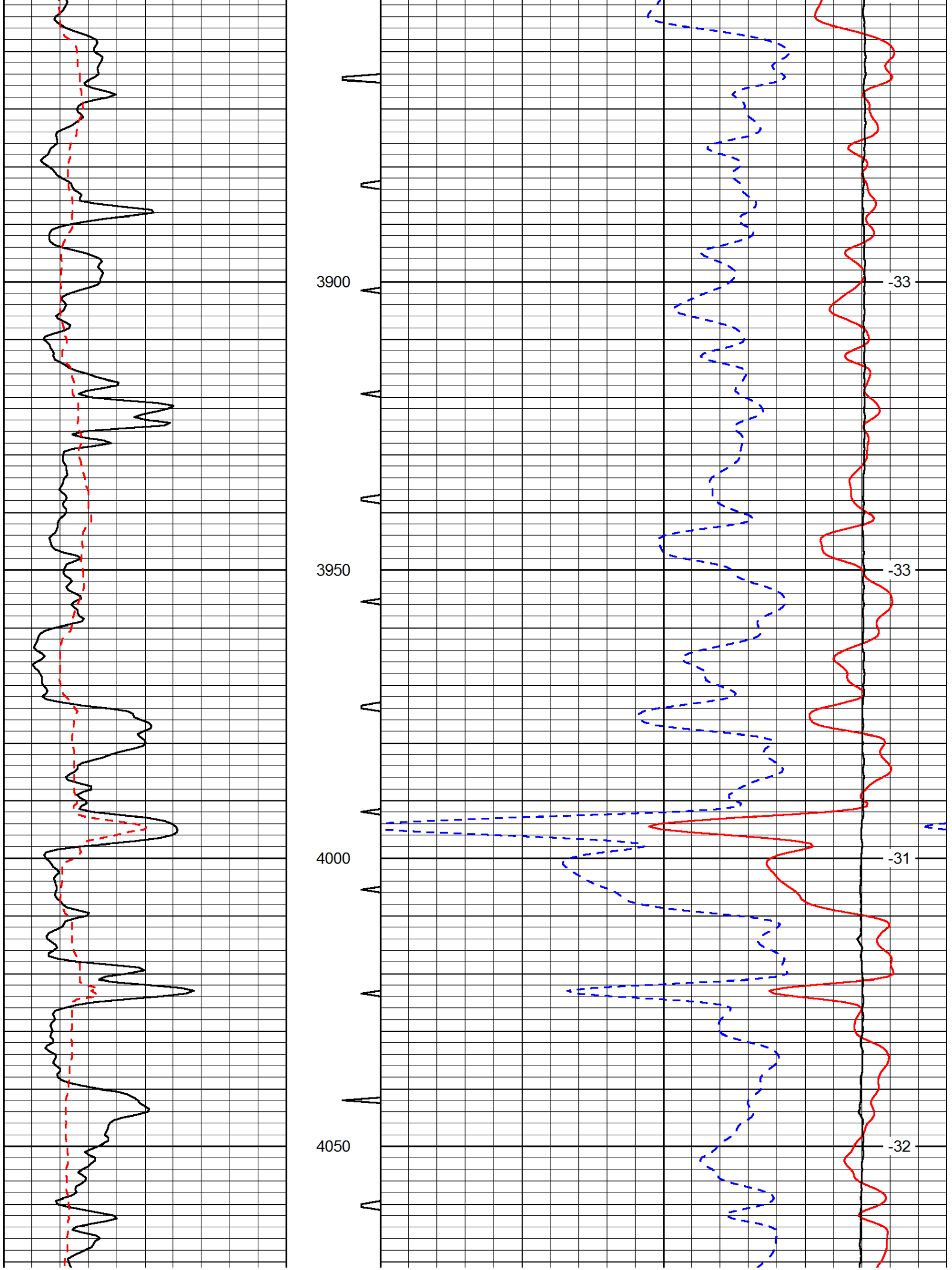
| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | Gamma Ray | 150 | Sonic Int | 140 | Delta Time (usec/ft) | 40 |
| 150 | Gamma Ray | 300 | 5 0 | 30 | SPOR | -10 |
| 6 | Caliper (GAPI) | 16 | | 15000 | LTEN (lb) | 0 |
| | | | | | | LSPD |

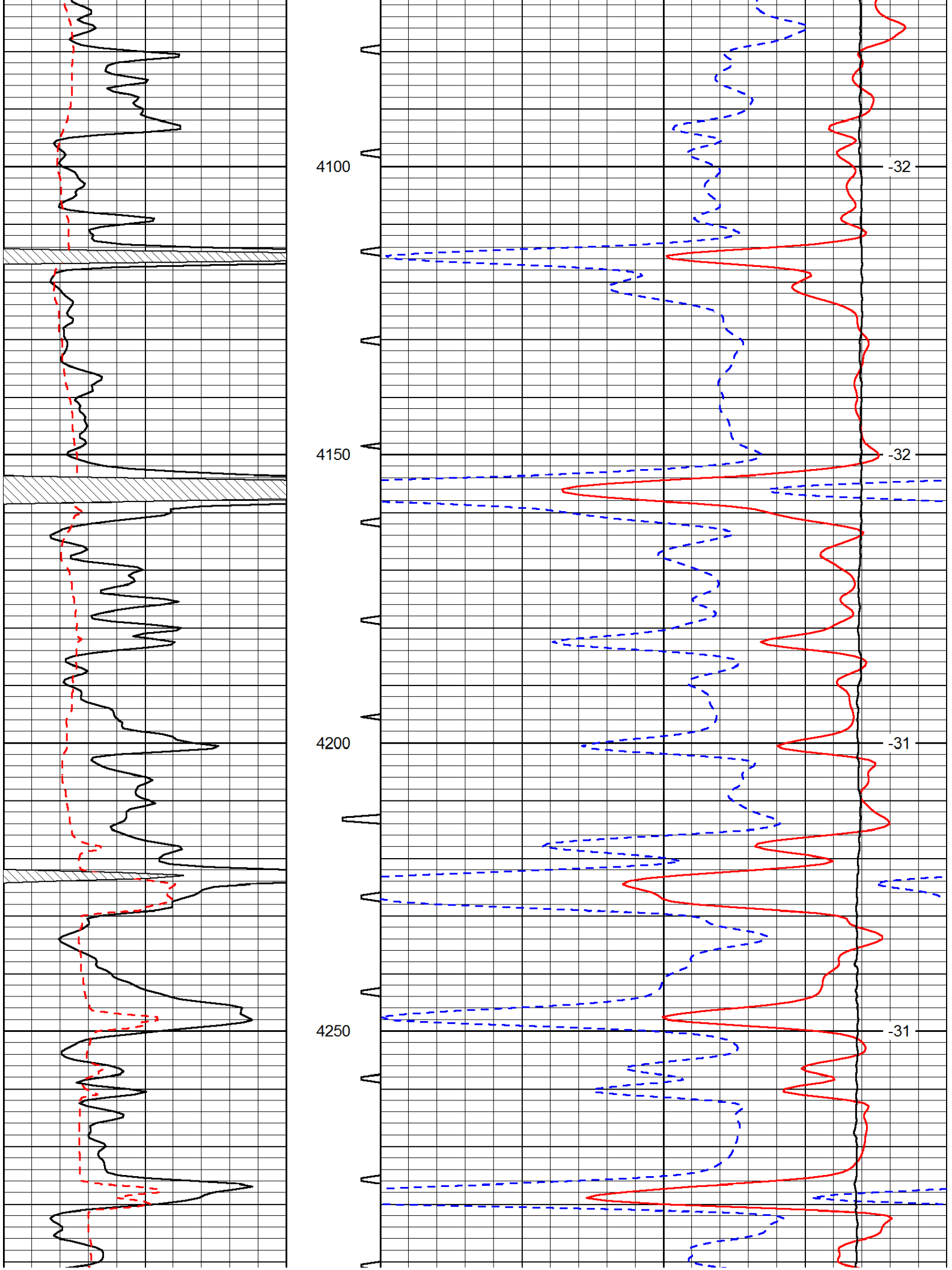


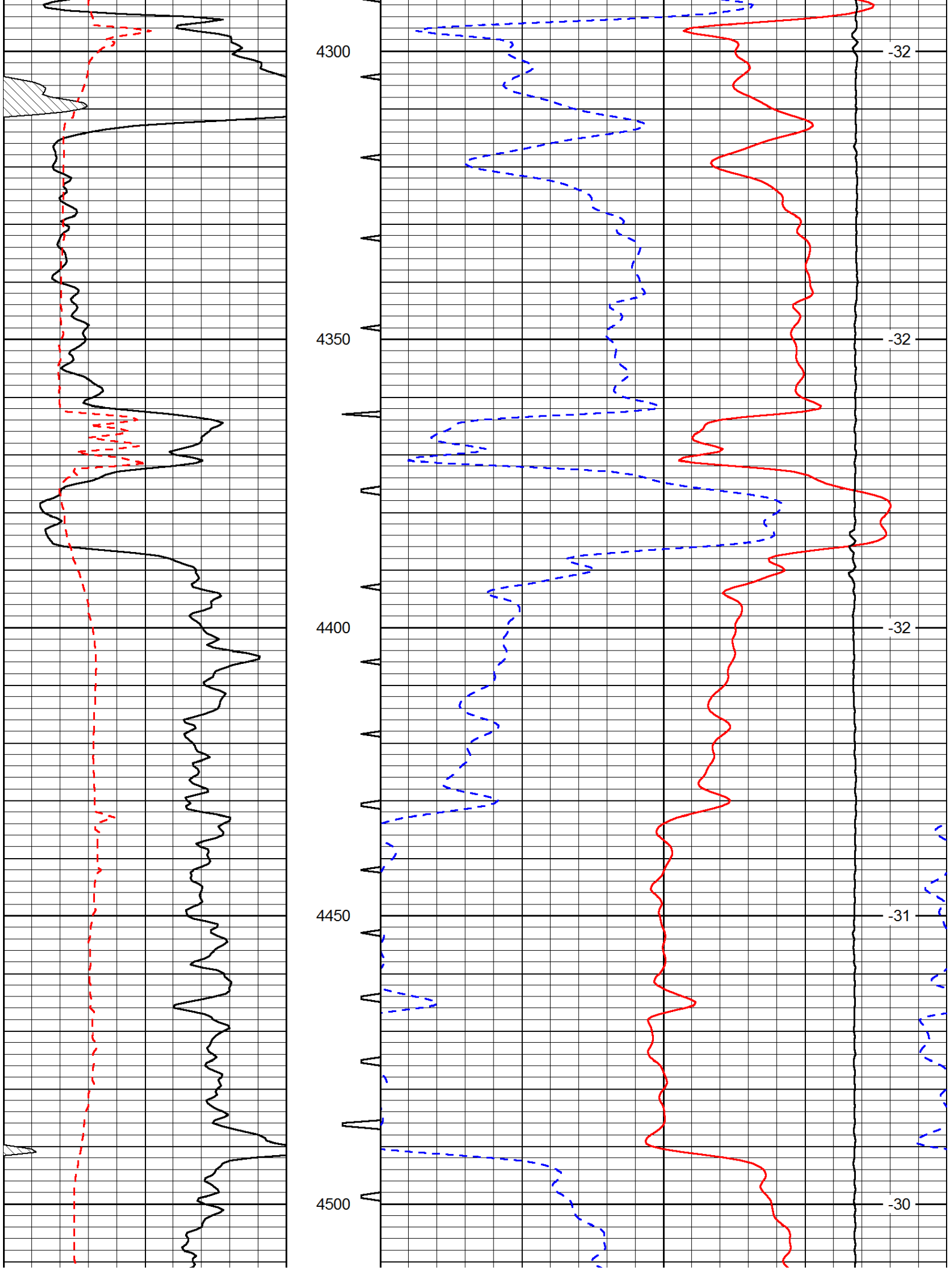

3200
3250
3300
3350
3400
-33
-33
-33
-33
-34

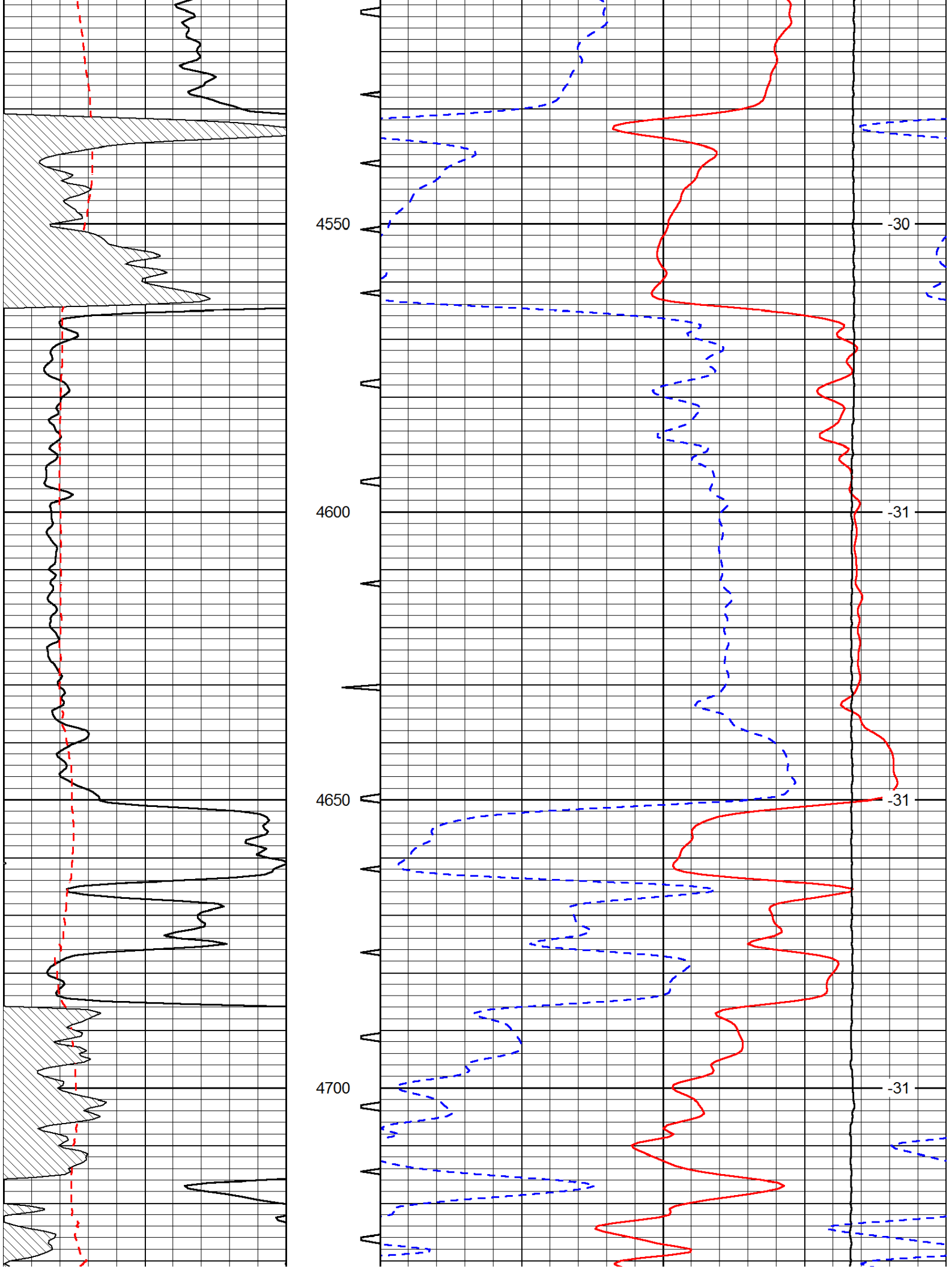

3450
3500
3550
3600
-34
-34
-33
-33

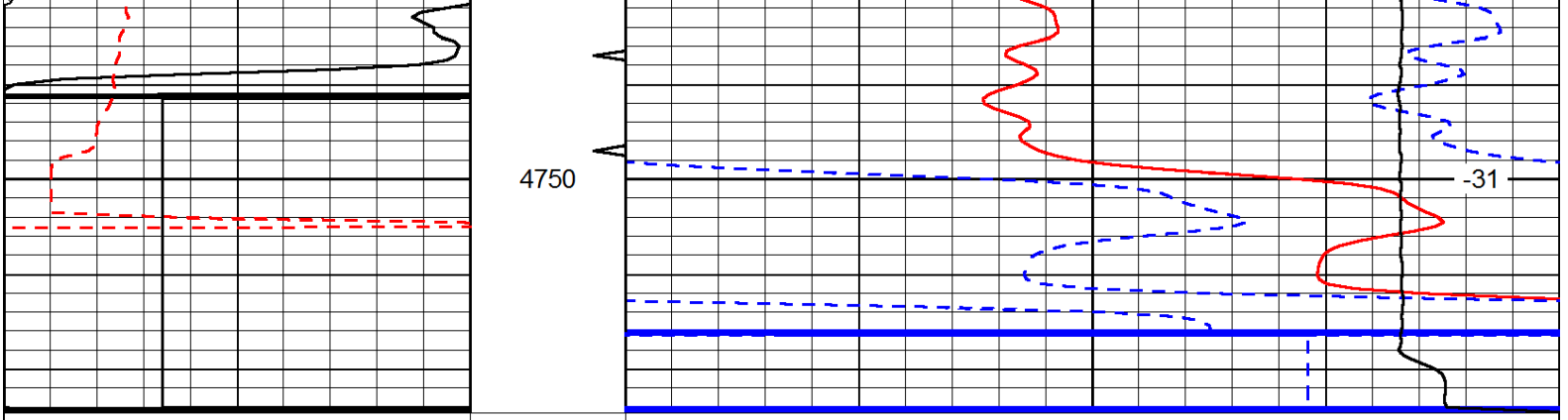

3650
3700
3750
3800
3850
-33
-33
-33
-33
-33


3900
-33
3950
-33
4000
-31
4050
-32


4100
4150
4200
4250
-32
-32
-31
-31


4300
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4450
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4600
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-30
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-31
-31




| | | | | | | |
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