



## Dual Induction Log

DIGITAL LOG (785) 625-3858

|                        |                             |                         |          |                                  |
|------------------------|-----------------------------|-------------------------|----------|----------------------------------|
| API No.                | Company Bach Oil Production |                         |          |                                  |
|                        | Well Sammons No. 1          |                         |          |                                  |
|                        | Field Wildcat               |                         |          |                                  |
|                        | County                      | Rooks                   | State    | Kansas                           |
| 15-163-23,898-00-00    | Location                    | 530' FSL & 1460' FEL    |          |                                  |
|                        | Sec: 11                     | Twp: 7S                 | Rge: 20W | Other Services<br>CNL/CDL<br>MEL |
| Permanent Datum        | Ground Level                | Elevation 2111          |          | Elevation                        |
| Log Measured From      | Kelly Bushing               | 5 Ft. Above Perm. Datum |          | K.B. 2116                        |
| Drilling Measured From | Kelly Bushing               |                         |          | D.F. 2111                        |
| Date                   | 10/25/2010                  |                         |          |                                  |
| Run Number             | One                         |                         |          |                                  |
| Depth Driller          | 3650                        |                         |          |                                  |
| Depth Logger           | 3650                        |                         |          |                                  |
| Bottom Logged Interval | 3649                        |                         |          |                                  |
| Top Log Interval       | 200                         |                         |          |                                  |
| Casing Driller         | 8.625 @ 218                 |                         |          |                                  |
| Casing Logger          | 213                         |                         |          |                                  |
| Bit Size               | 7.875                       |                         |          |                                  |
| Type Fluid in Hole     | Chemical                    |                         |          |                                  |
| Salinity, ppm CL       | 3.000                       |                         |          |                                  |
| Density / Viscosity    | 9.2 51                      |                         |          |                                  |
| pH / Fluid Loss        | 10.0 8.8                    |                         |          |                                  |
| Source of Sample       | Flowline                    |                         |          |                                  |
| Rm @ Meas. Temp        | .9 @ 68                     |                         |          |                                  |
| Rmf @ Meas. Temp       | .68 @ 68                    |                         |          |                                  |
| Rmc @ Meas. Temp       | 1.22 @ 68                   |                         |          |                                  |
| Source of Rmf / Rmc    | Charts                      |                         |          |                                  |
| Rm @ BHT               | .53 @ 115                   |                         |          |                                  |
| Operating Rig Time     | 3 Hours                     |                         |          |                                  |
| Max Rec. Temp. F       | 115                         |                         |          |                                  |
| Equipment Number       | 17                          |                         |          |                                  |
| Location               | Hays                        |                         |          |                                  |
| Recorded By            | Mike Garrison               |                         |          |                                  |
| Witnessed By           | Randy Kilian                |                         |          |                                  |

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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

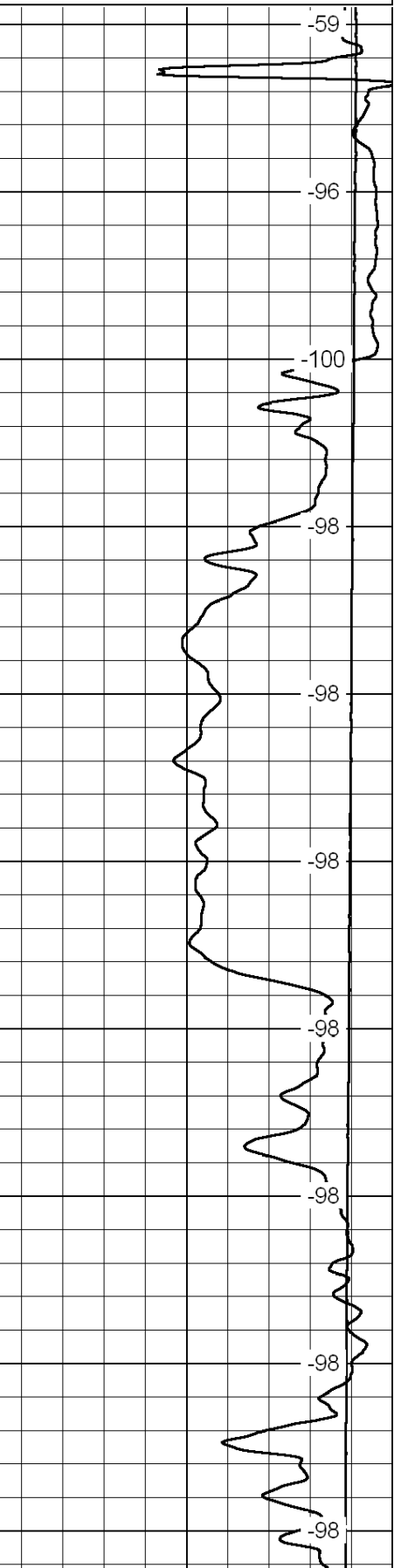
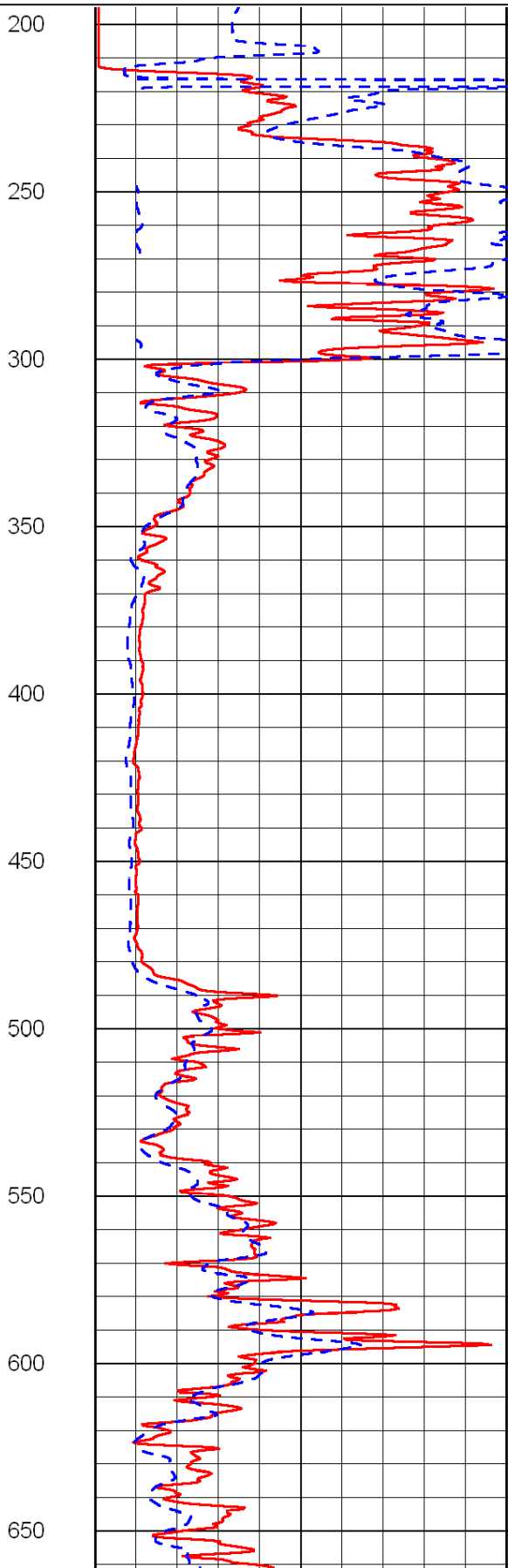
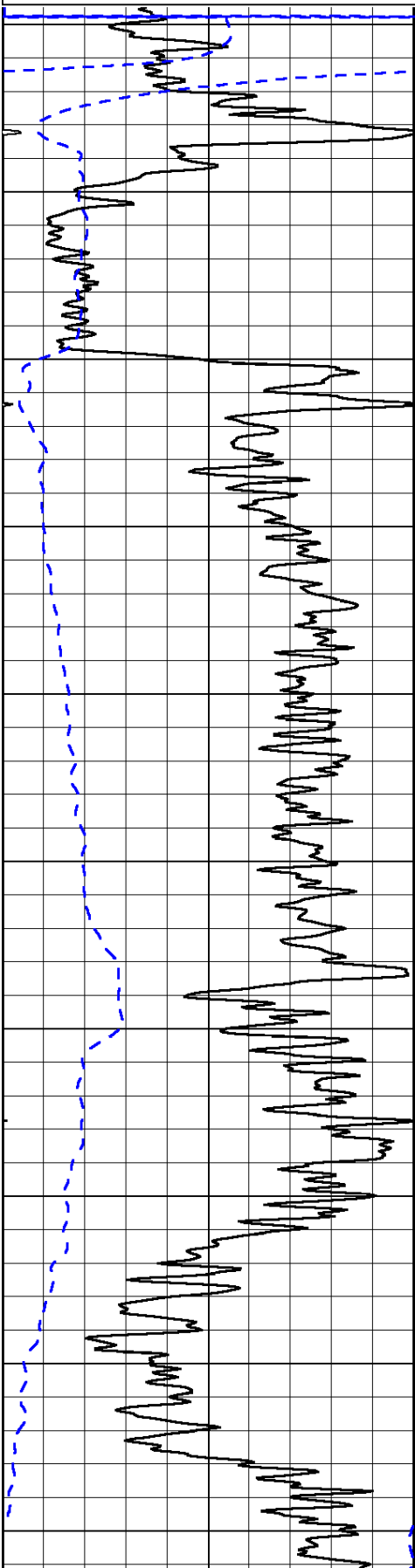
Damar, North to Hwy 24, 4 East to Rd 6, 3 North to Rd I West Into

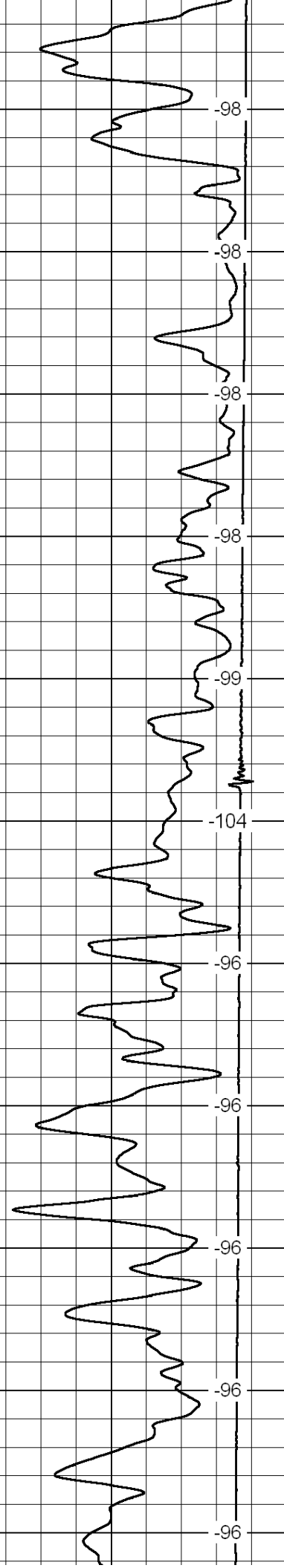
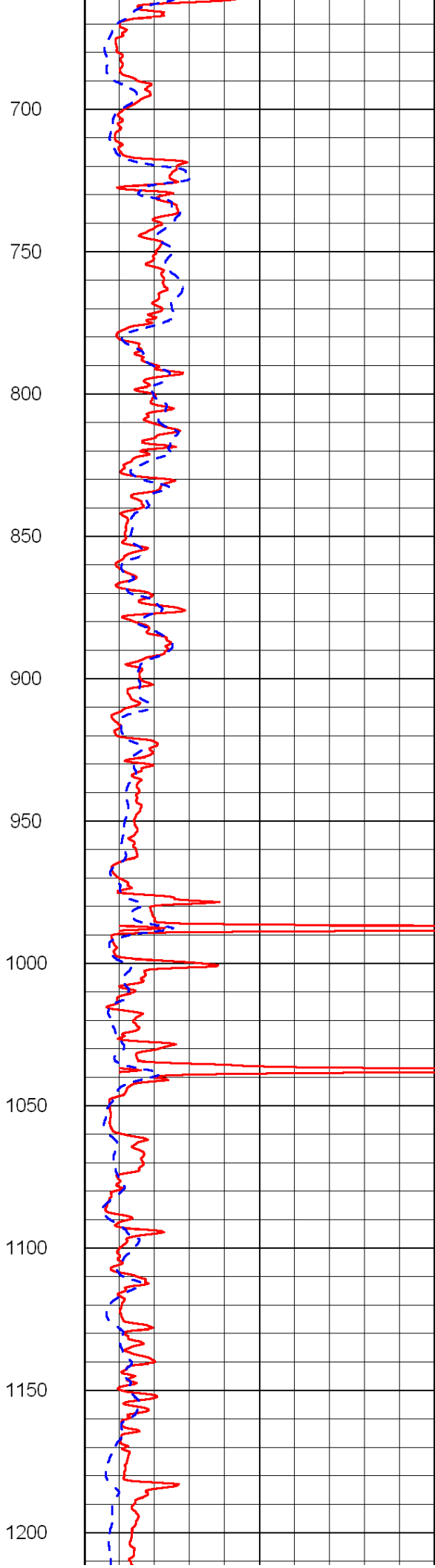
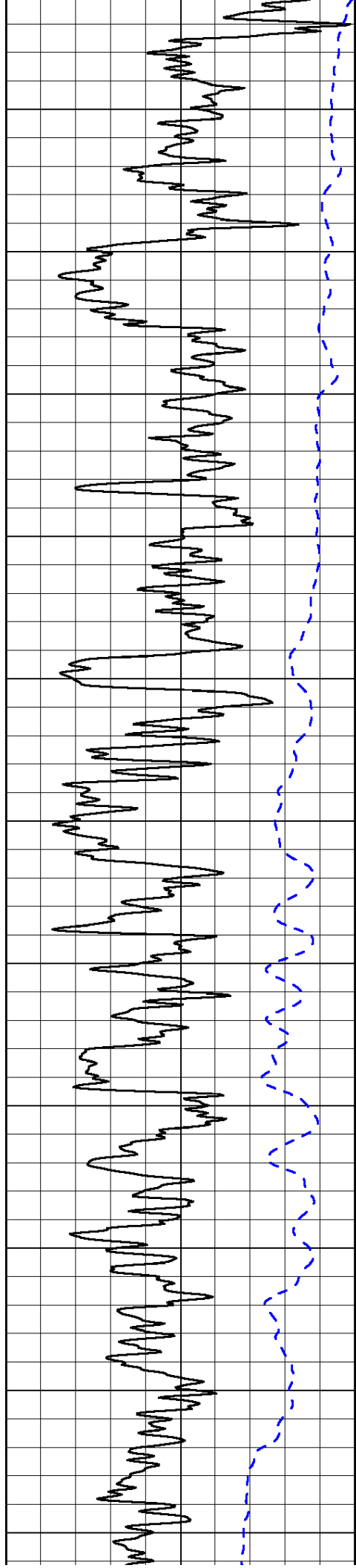
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Presentation Format: dil2in  
Dataset Creation: Mon Oct 25 23:24:17 2010  
Charted by: Depth in Feet scaled 1:600

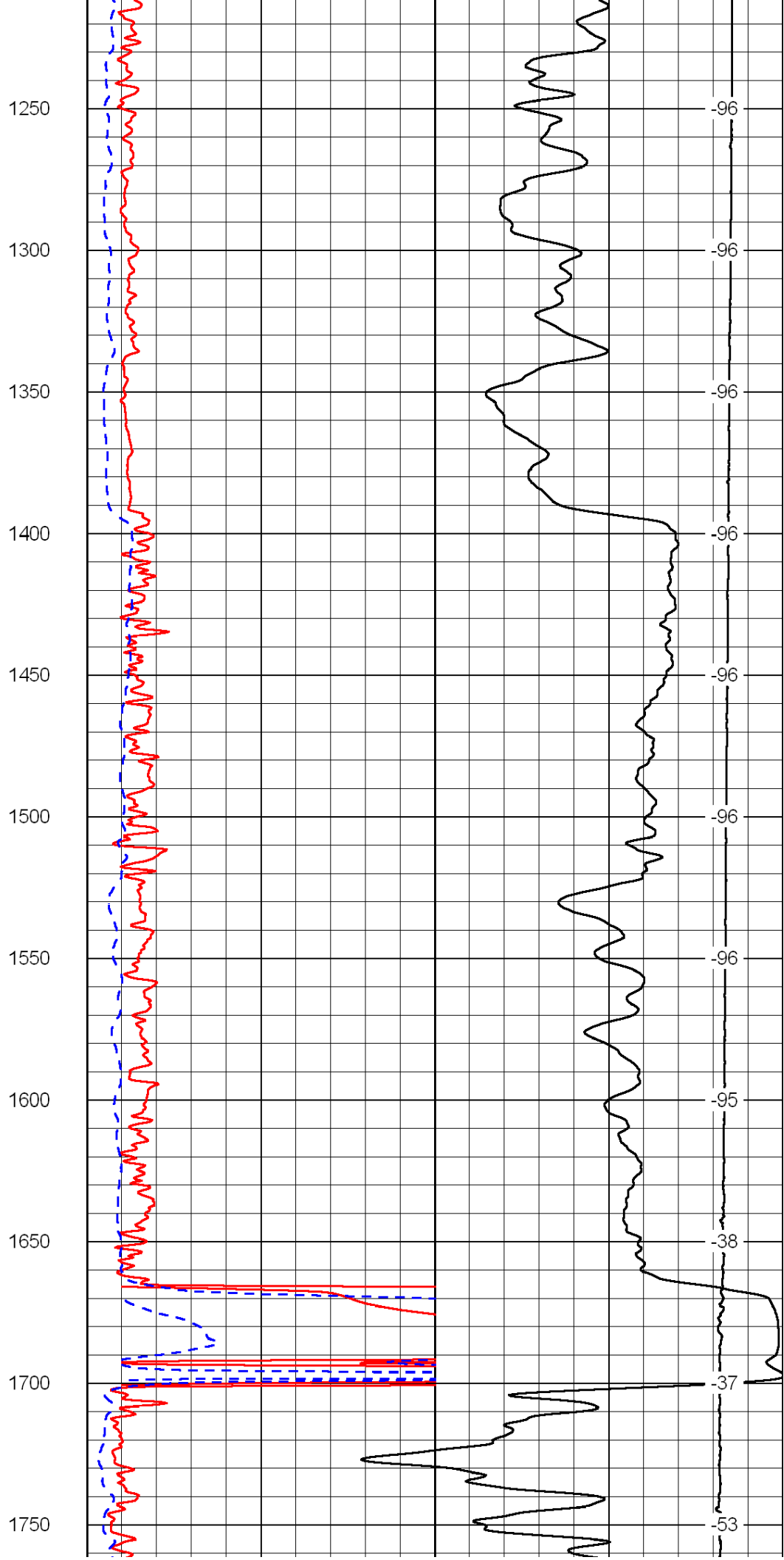
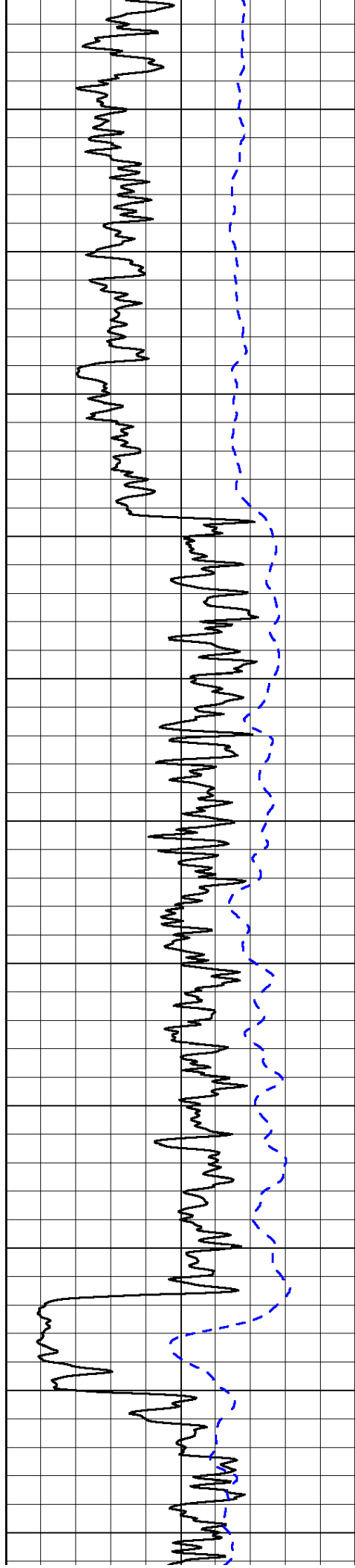
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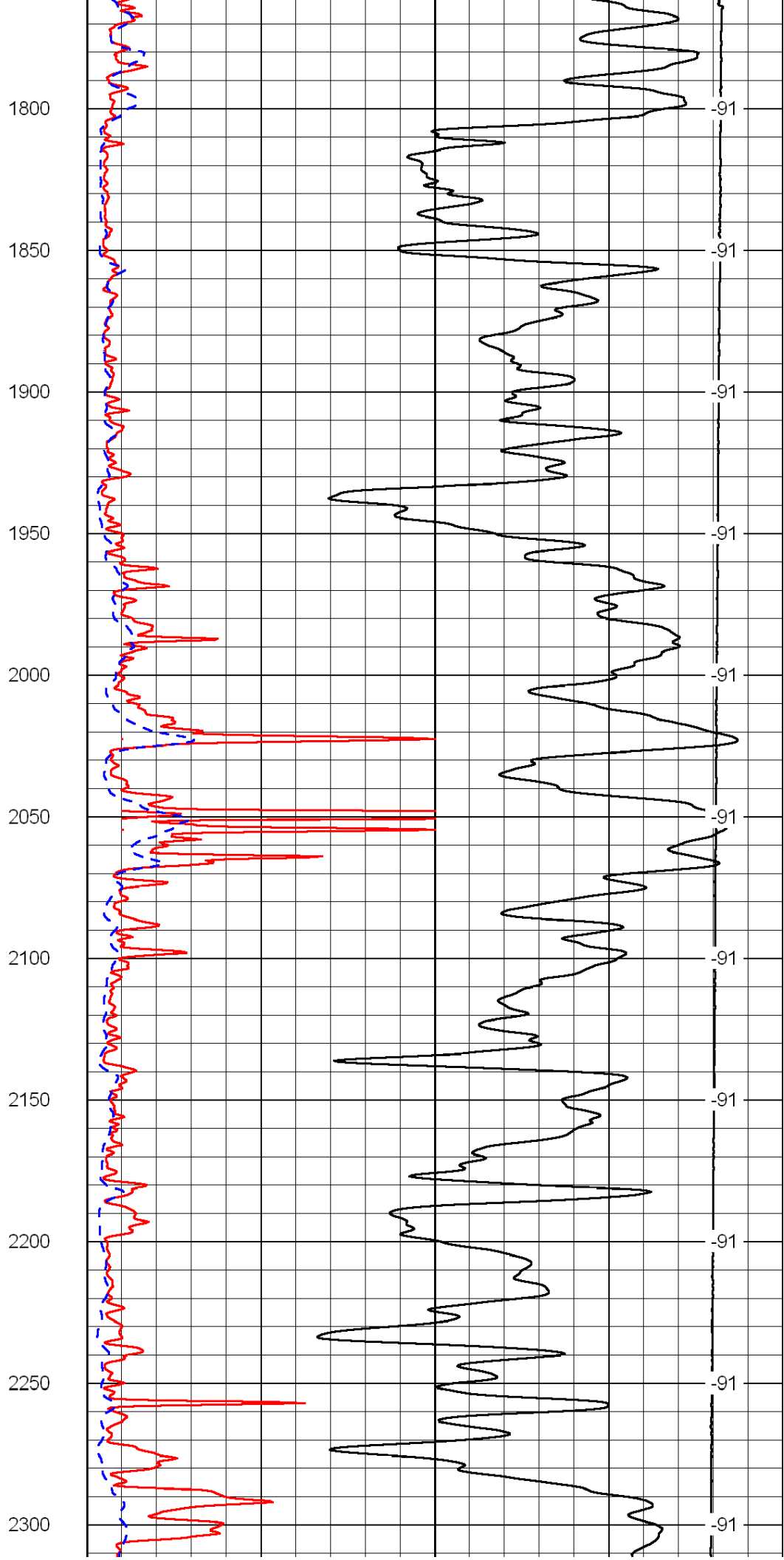
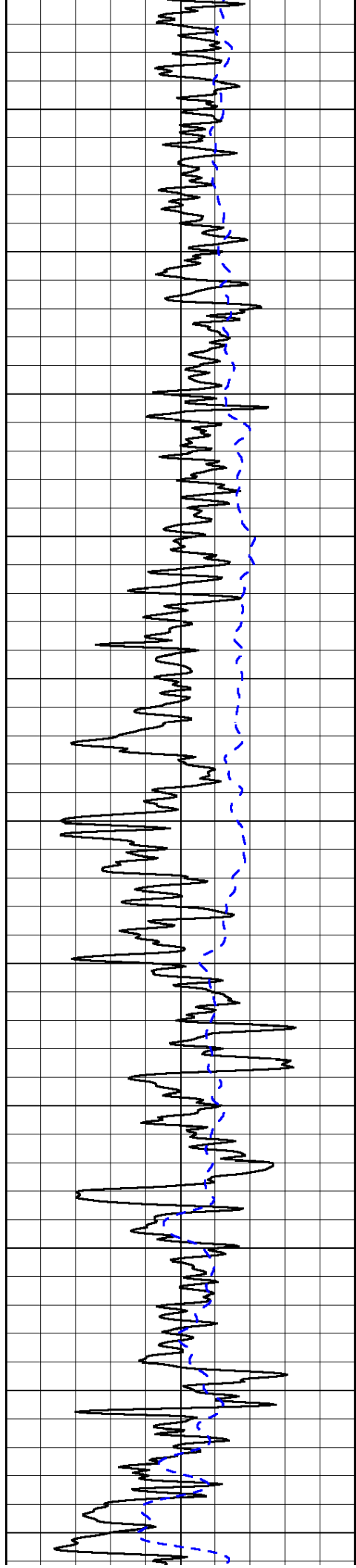
|                                            |           |     |
|--------------------------------------------|-----------|-----|
| 0                                          | Gamma Ray | 150 |
| -200                                       | SP (mV)   | 0   |
| <hr style="border-top: 1px dashed blue;"/> |           |     |

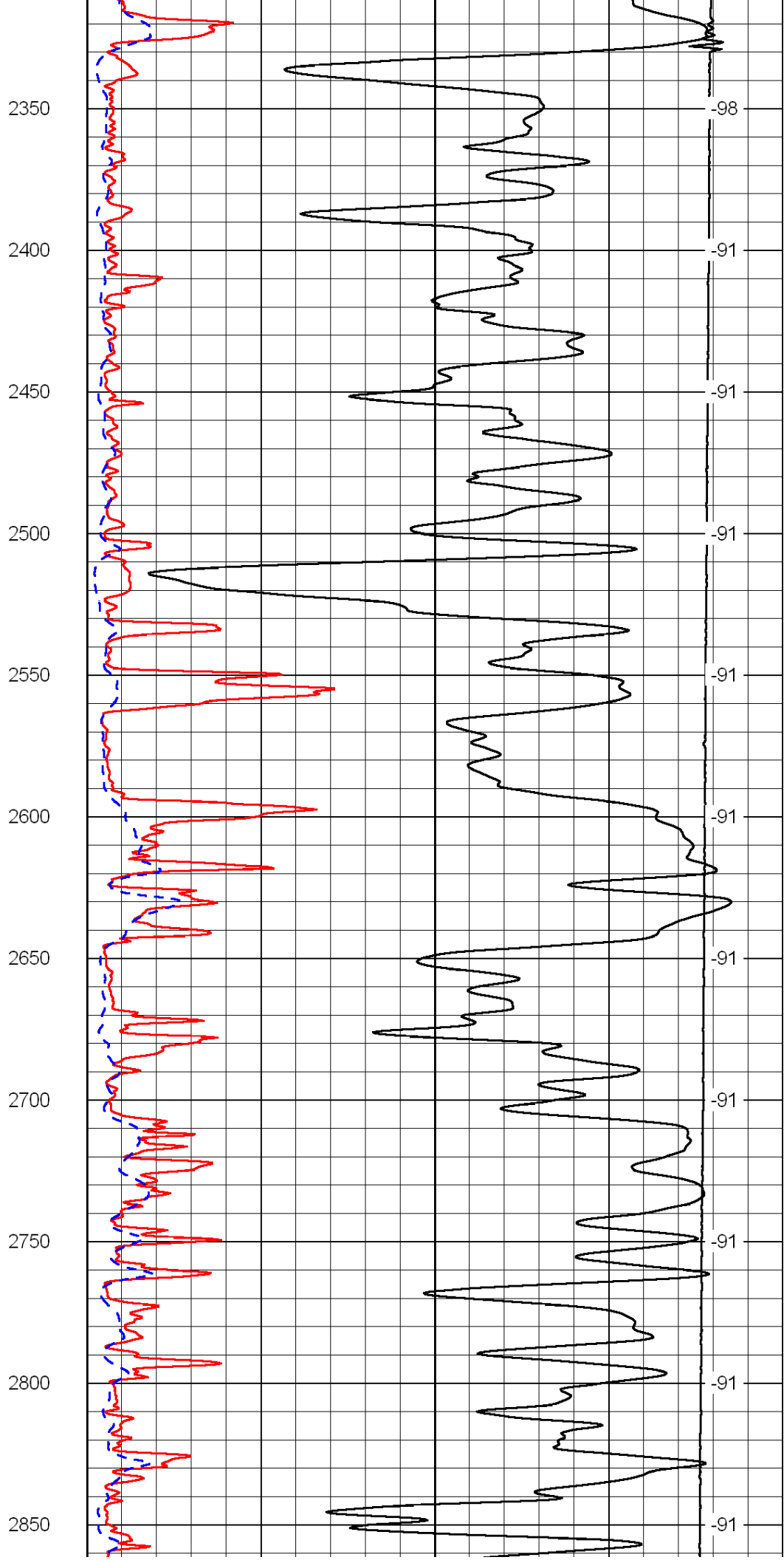
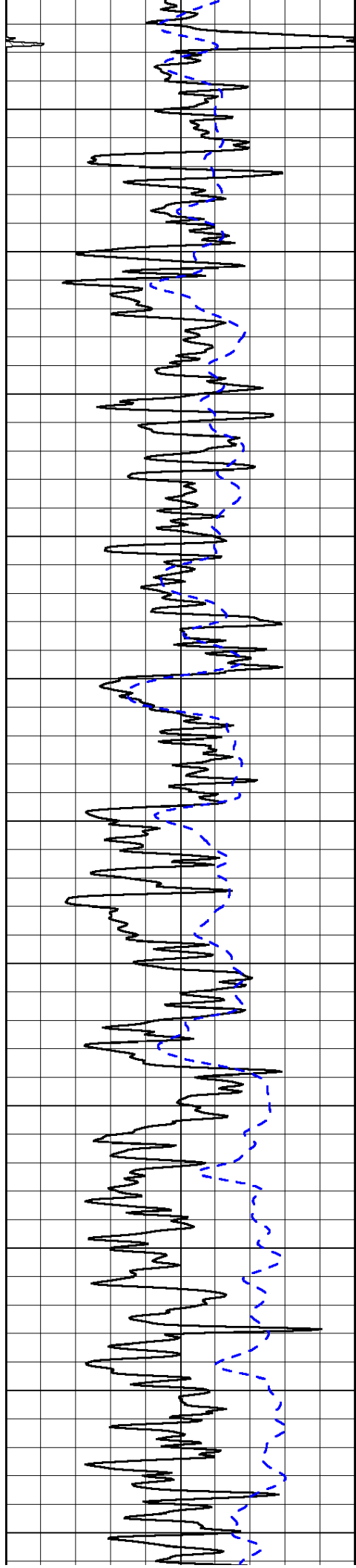
|                          |                     |     |      |
|--------------------------|---------------------|-----|------|
| 0 Shallow Resistivity 50 |                     |     | LSPD |
| 0 Deep Resistivity 50    |                     |     |      |
| 1000 Conductivity        |                     |     | 0    |
| 15000 Line Tension       |                     |     | 0    |
| 50                       | Shallow Resistivity | 500 |      |
| 50                       | Deep Resistivity    | 500 |      |
|                          |                     |     |      |

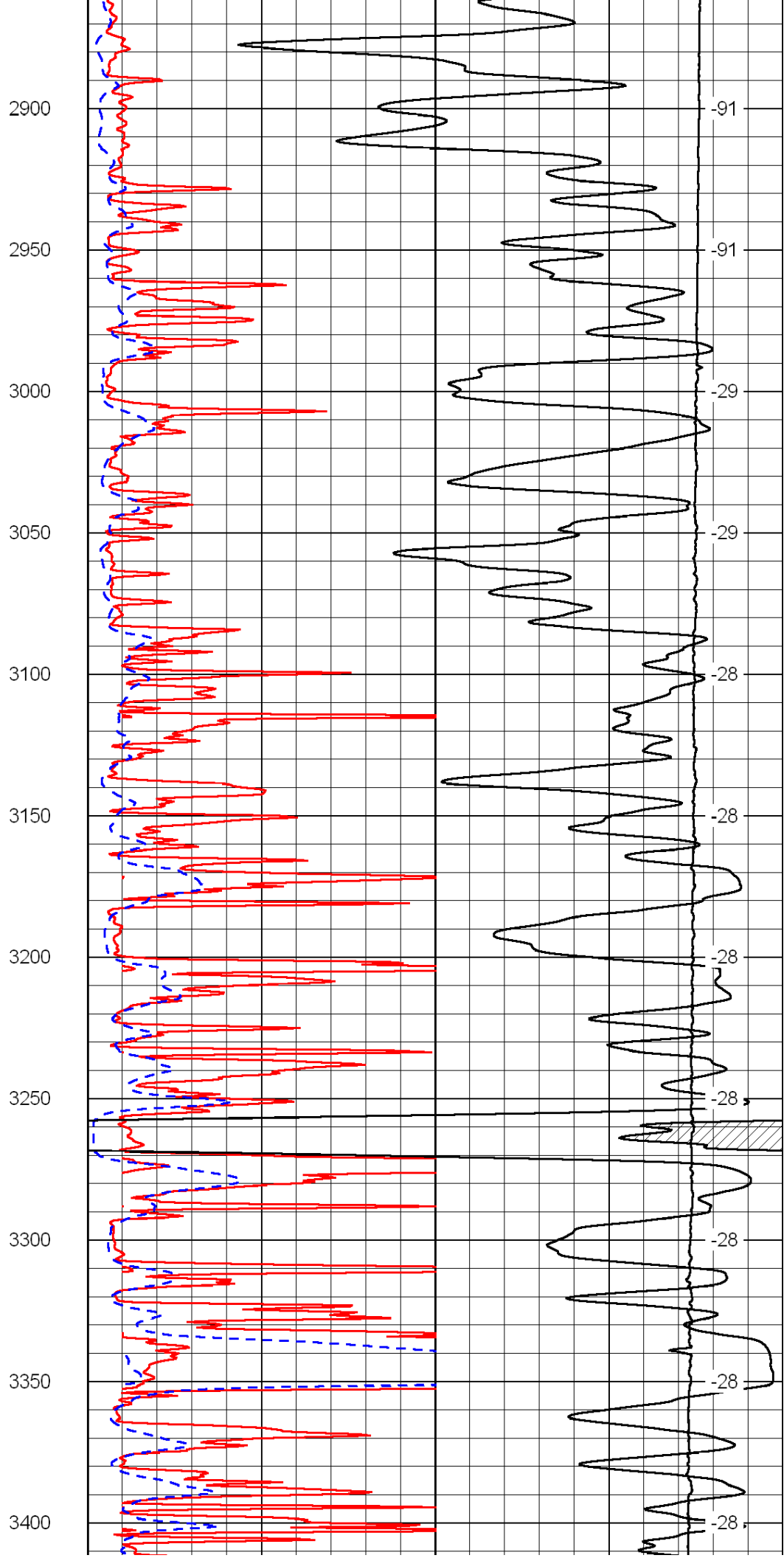
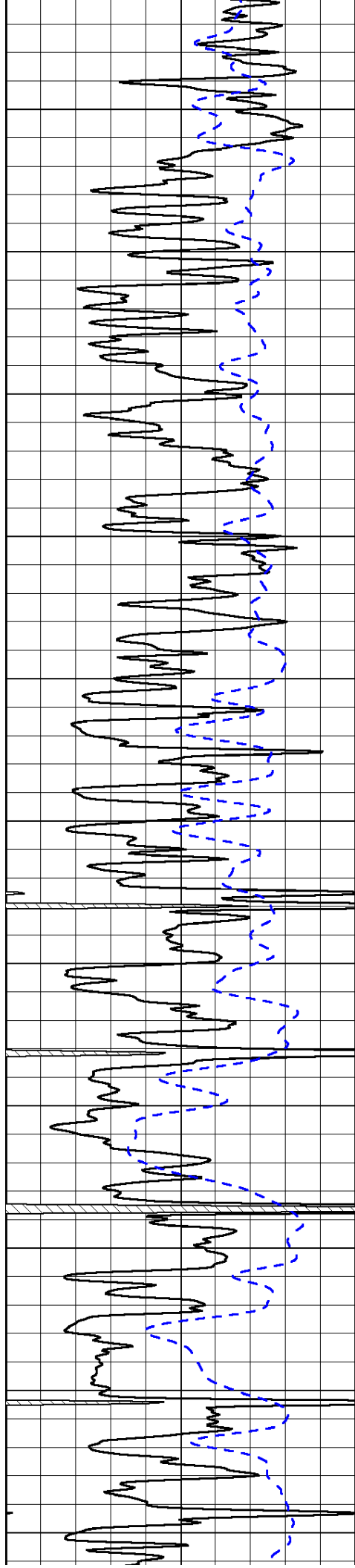


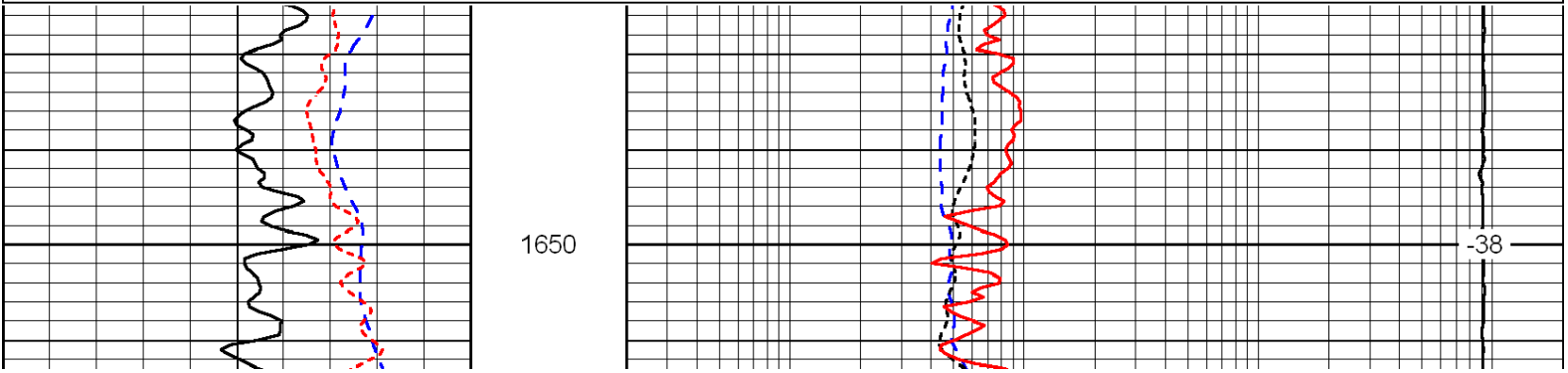
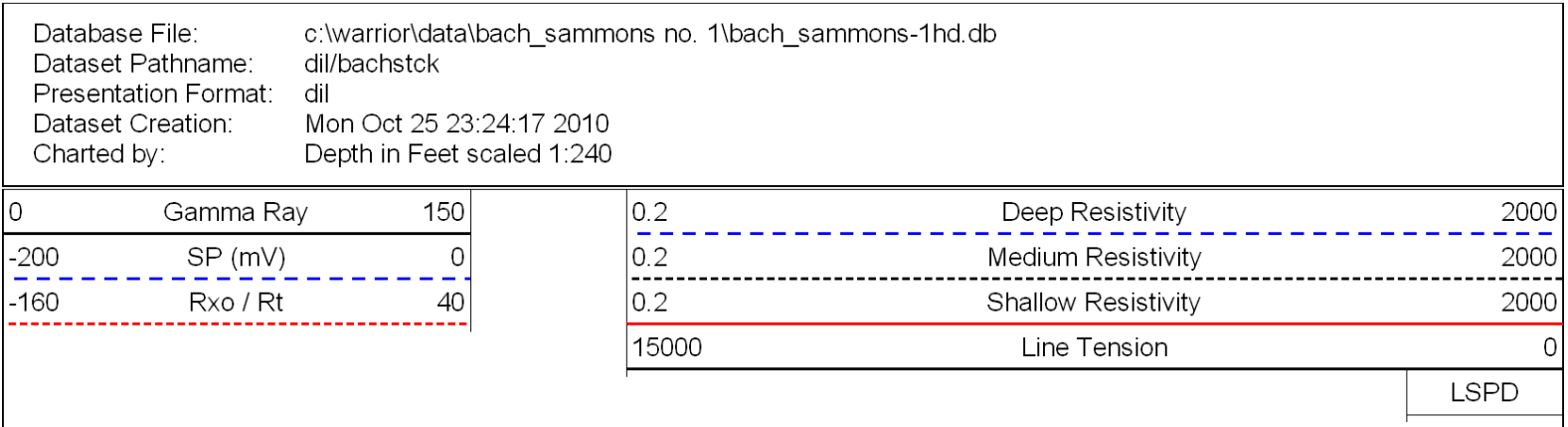
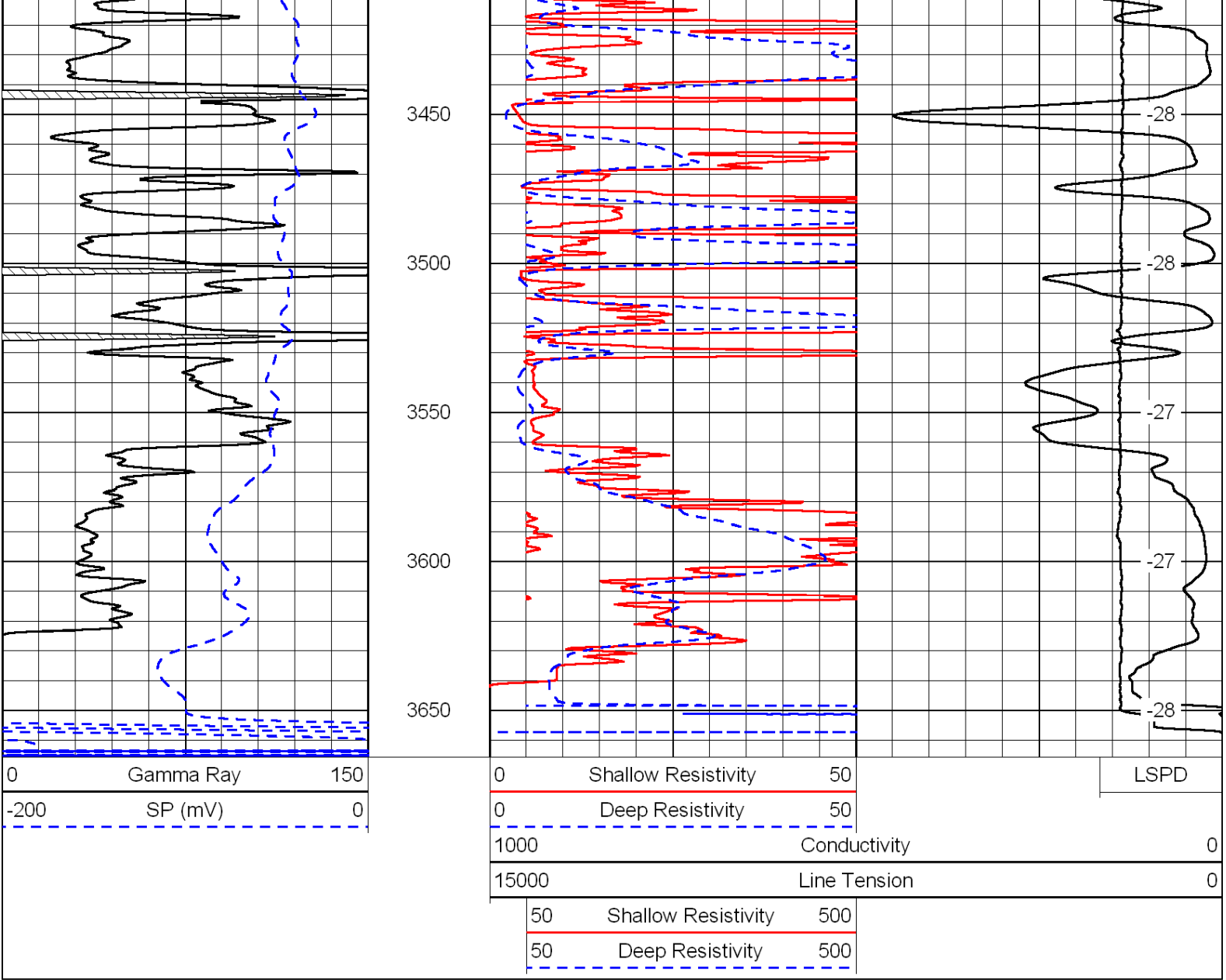


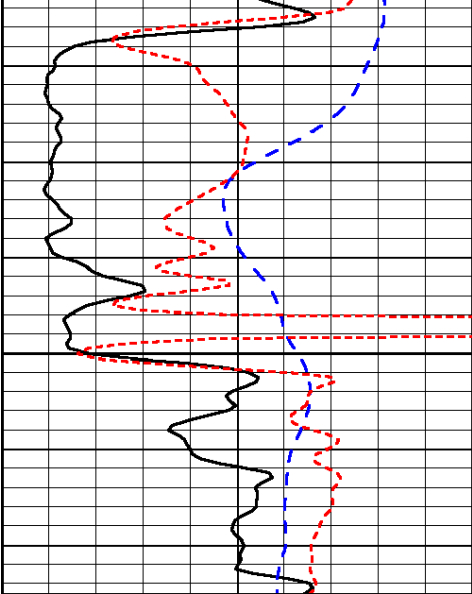






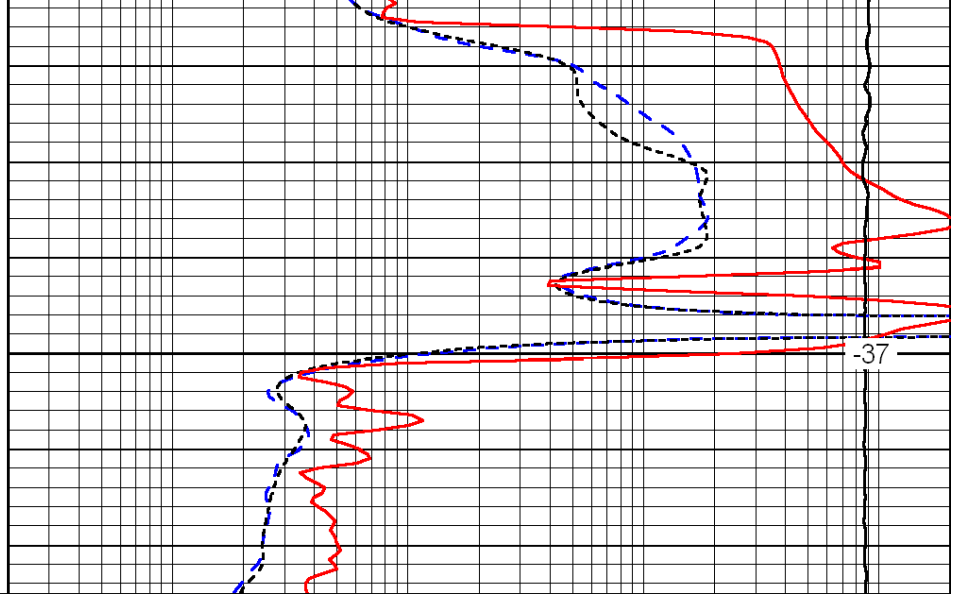






|      |           |     |
|------|-----------|-----|
| 0    | Gamma Ray | 150 |
| -200 | SP (mV)   | 0   |
| -160 | Rxo / Rt  | 40  |

1700



|       |                     |      |
|-------|---------------------|------|
| 0.2   | Deep Resistivity    | 2000 |
| 0.2   | Medium Resistivity  | 2000 |
| 0.2   | Shallow Resistivity | 2000 |
| 15000 | Line Tension        | 0    |

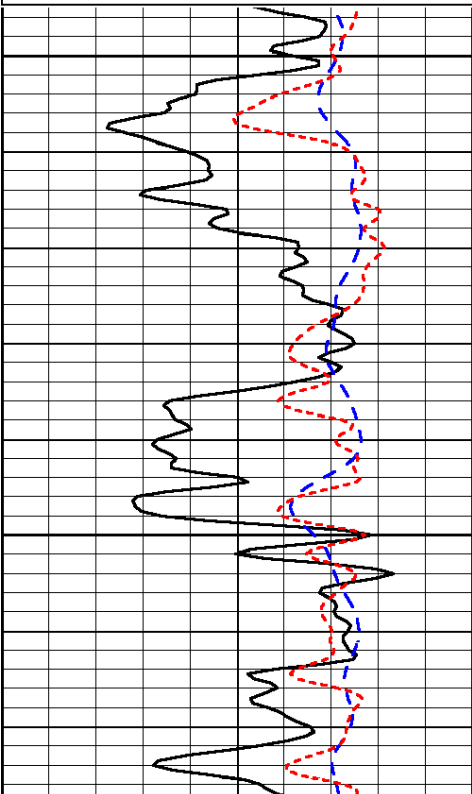
LSPD

Database File: c:\warrior\data\bach\_sammons no. 1\bach\_sammons-1hd.db  
Dataset Pathname: dil/bachstck  
Presentation Format: dil  
Dataset Creation: Mon Oct 25 23:24:17 2010  
Charted by: Depth in Feet scaled 1:240

|      |           |     |
|------|-----------|-----|
| 0    | Gamma Ray | 150 |
| -200 | SP (mV)   | 0   |
| -160 | Rxo / Rt  | 40  |

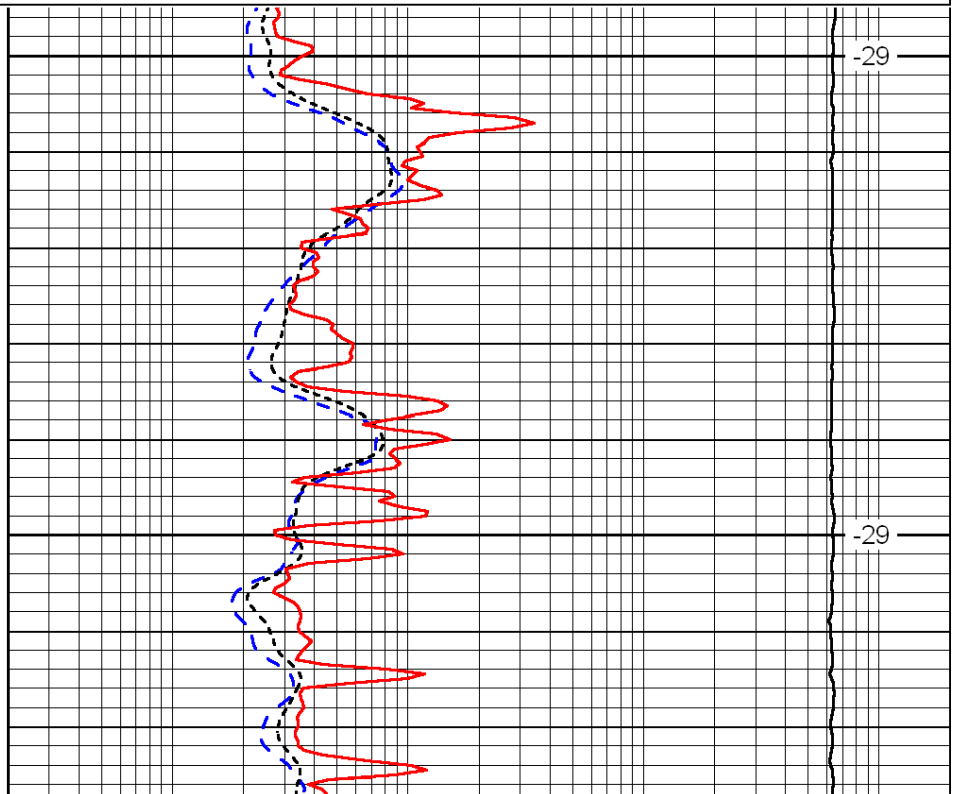
|       |                     |      |
|-------|---------------------|------|
| 0.2   | Deep Resistivity    | 2000 |
| 0.2   | Medium Resistivity  | 2000 |
| 0.2   | Shallow Resistivity | 2000 |
| 15000 | Line Tension        | 0    |

LSPD



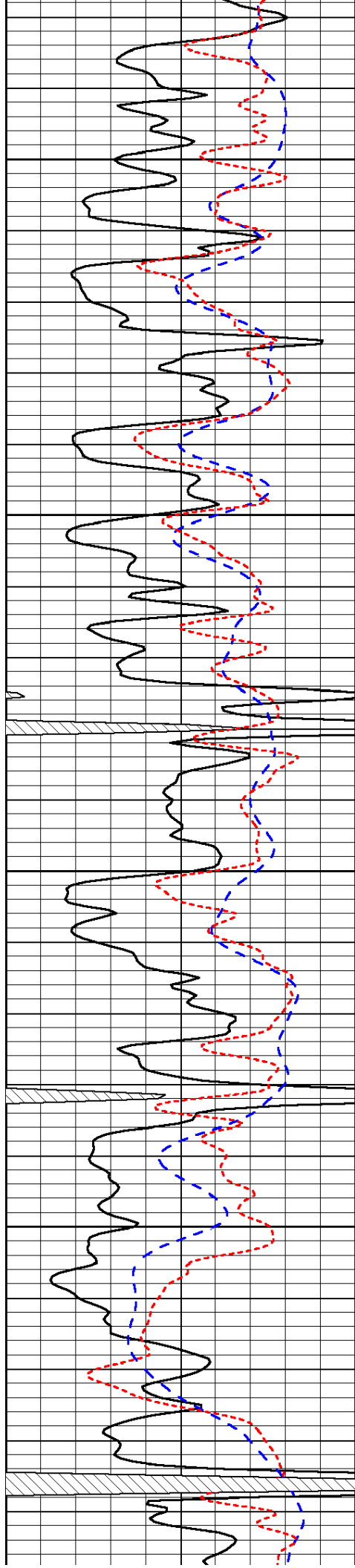
3000

3050



-29

-29

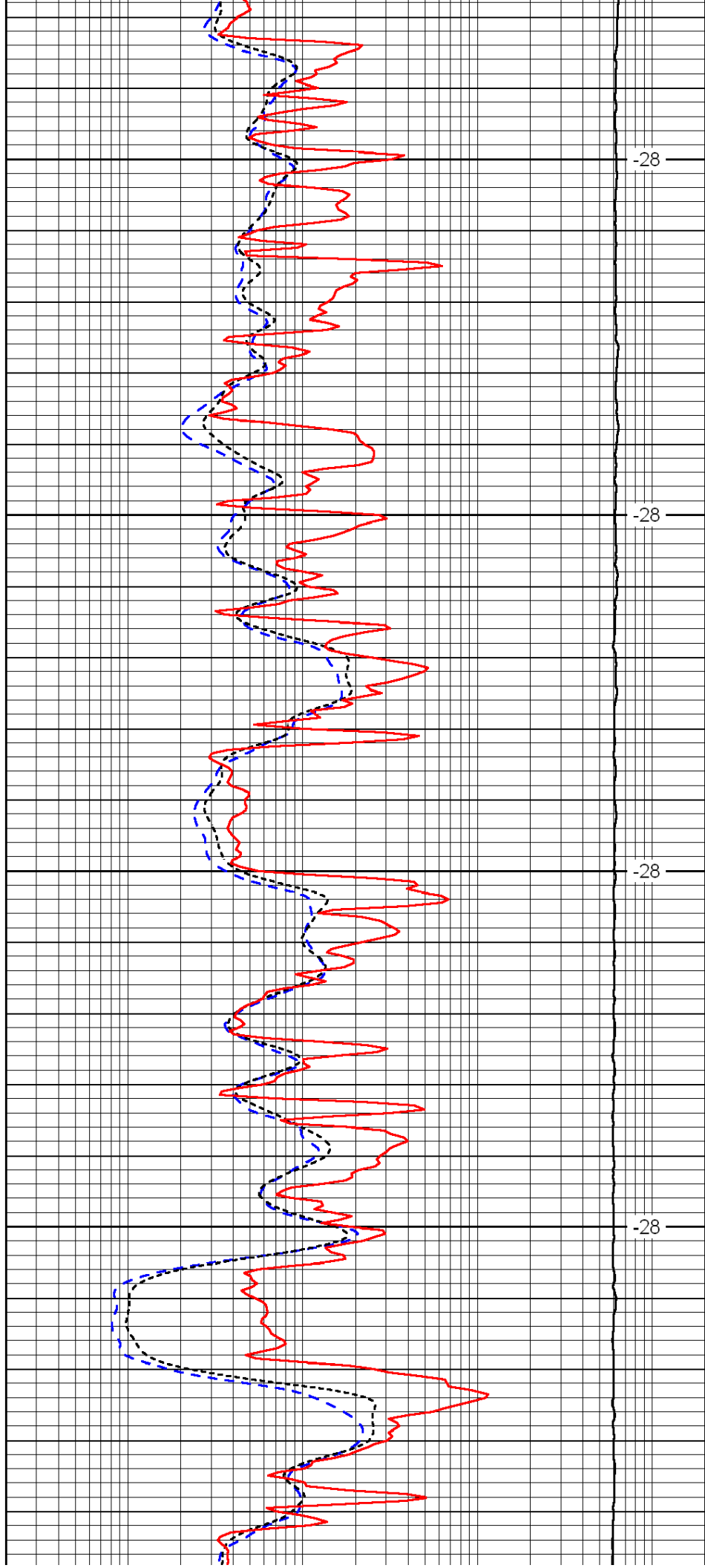


3100

3150

3200

3250

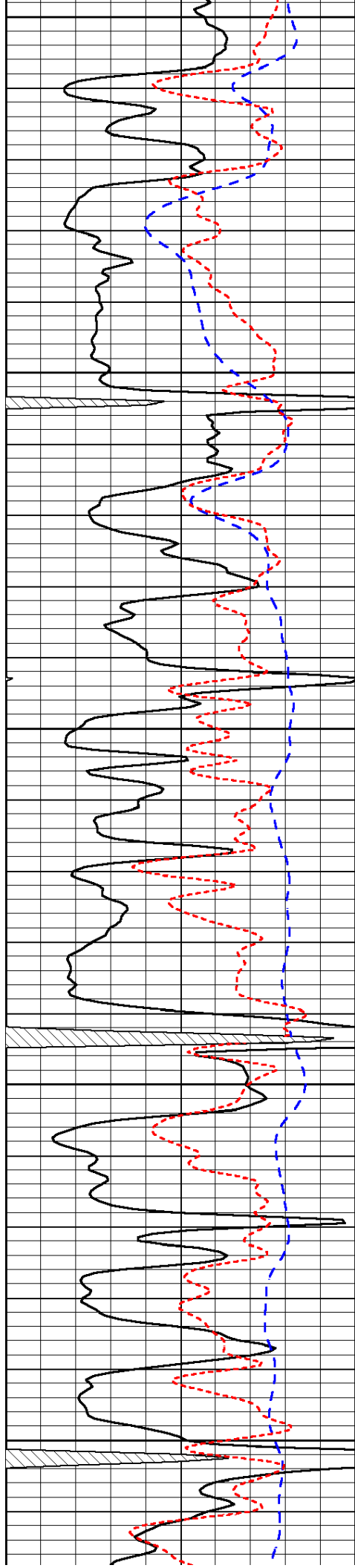


-28

-28

-28

-28



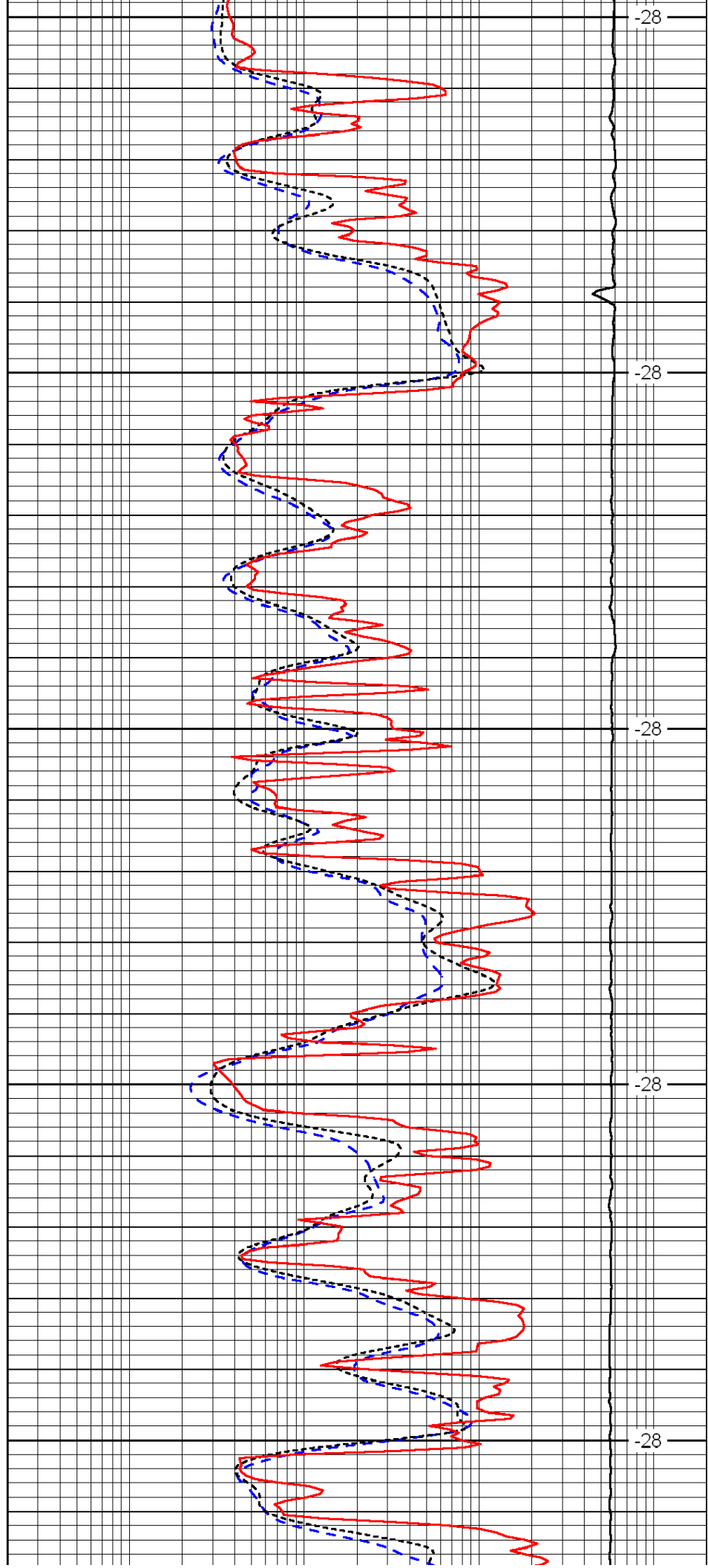
3300

3350

3400

3450

3500



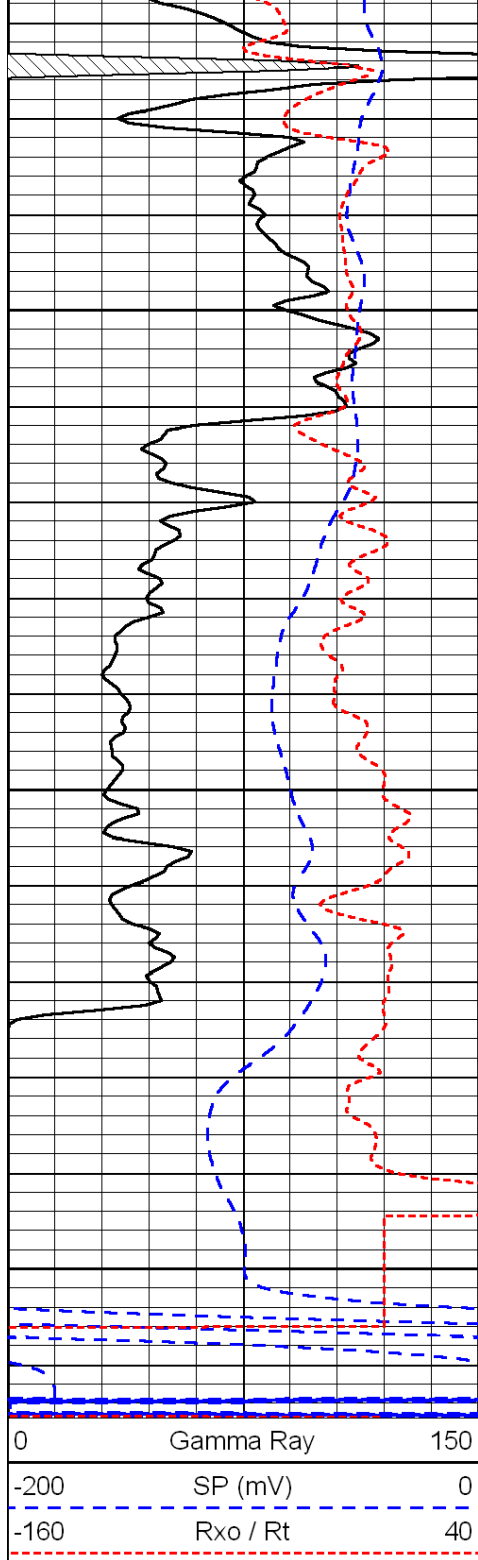
-28

-28

-28

-28

-28

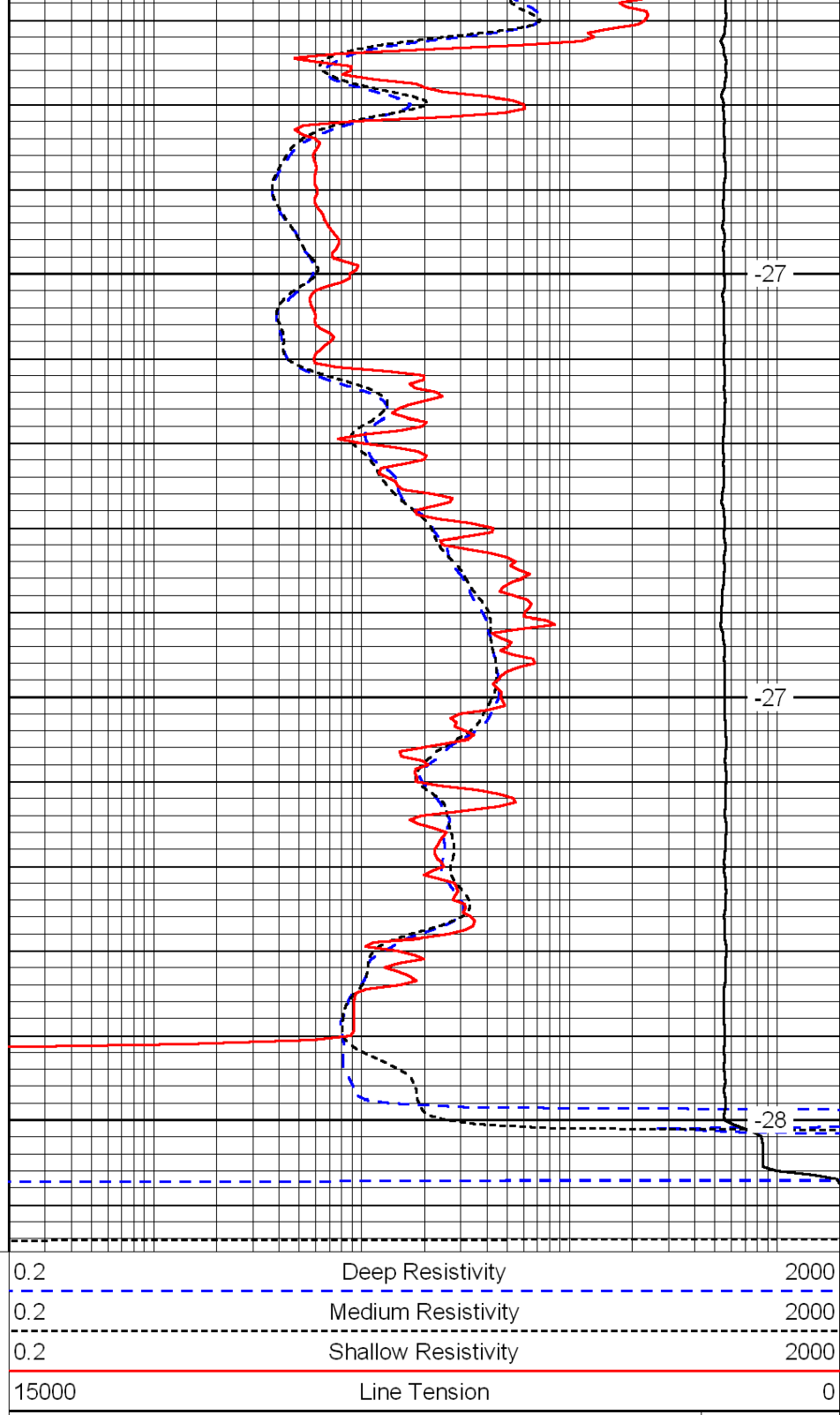


3550

3600

3650

|      |           |     |
|------|-----------|-----|
| 0    | Gamma Ray | 150 |
| -200 | SP (mV)   | 0   |
| -160 | Rxo / Rt  | 40  |



-27

-27

-28

|       |                     |      |
|-------|---------------------|------|
| 0.2   | Deep Resistivity    | 2000 |
| 0.2   | Medium Resistivity  | 2000 |
| 0.2   | Shallow Resistivity | 2000 |
| 15000 | Line Tension        | 0    |

LSPD