

# Borehole Compensated Sonic Log

**(785) 625-3858**

|         |                   |
|---------|-------------------|
| Company | LD Drilling, Inc. |
| Well    | Hoelscher No. 2-1 |
| Field   | Otis-Albert       |
| County  | Barton            |

# Barton

State Kansas

15-009-25,575-00-00

Twp: 19S

Rge: 15 W

Elevation

|               |   | Elevation 1977        |
|---------------|---|-----------------------|
| Ground Level  |   |                       |
| Kelly Bushing | 5 | Ft. Above Perm. Datum |
| From          |   |                       |

K.B. 1982

|      |          |
|------|----------|
| Date | 7/4/2011 |
|------|----------|

| Type Log | BHC Sonic |
|----------|-----------|
|          |           |

|              |      |
|--------------|------|
| Depth Logger | 3693 |
|--------------|------|

|                 |     |
|-----------------|-----|
| Logged Interval | 950 |
|-----------------|-----|

|                  |      |
|------------------|------|
| Salinity, PPM CL | 8000 |
|------------------|------|

| Level | Full |
|-------|------|
|-------|------|

|                       |          |
|-----------------------|----------|
| Experimentally little | 41 loads |
| Experimentally        | 10       |

|              |              |
|--------------|--------------|
| Accrued By   | Dillon       |
| Mitochondria | Lab Analysis |

| un No. | Bit | From | To |
|--------|-----|------|----|
|--------|-----|------|----|

|   |       |     |      |
|---|-------|-----|------|
| 2 | 7.875 | 951 | 3695 |
|---|-------|-----|------|

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

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

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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.

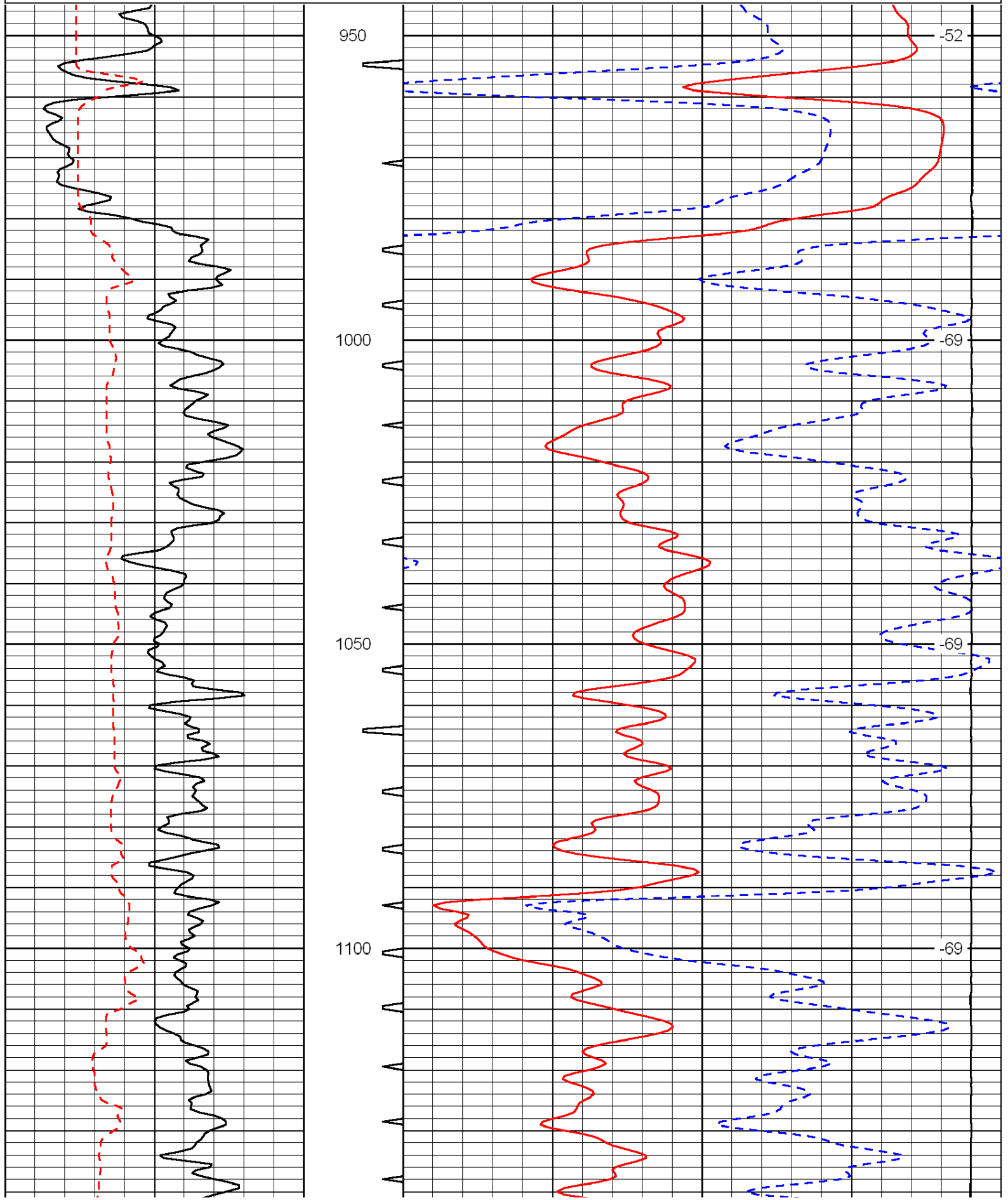
## Comments

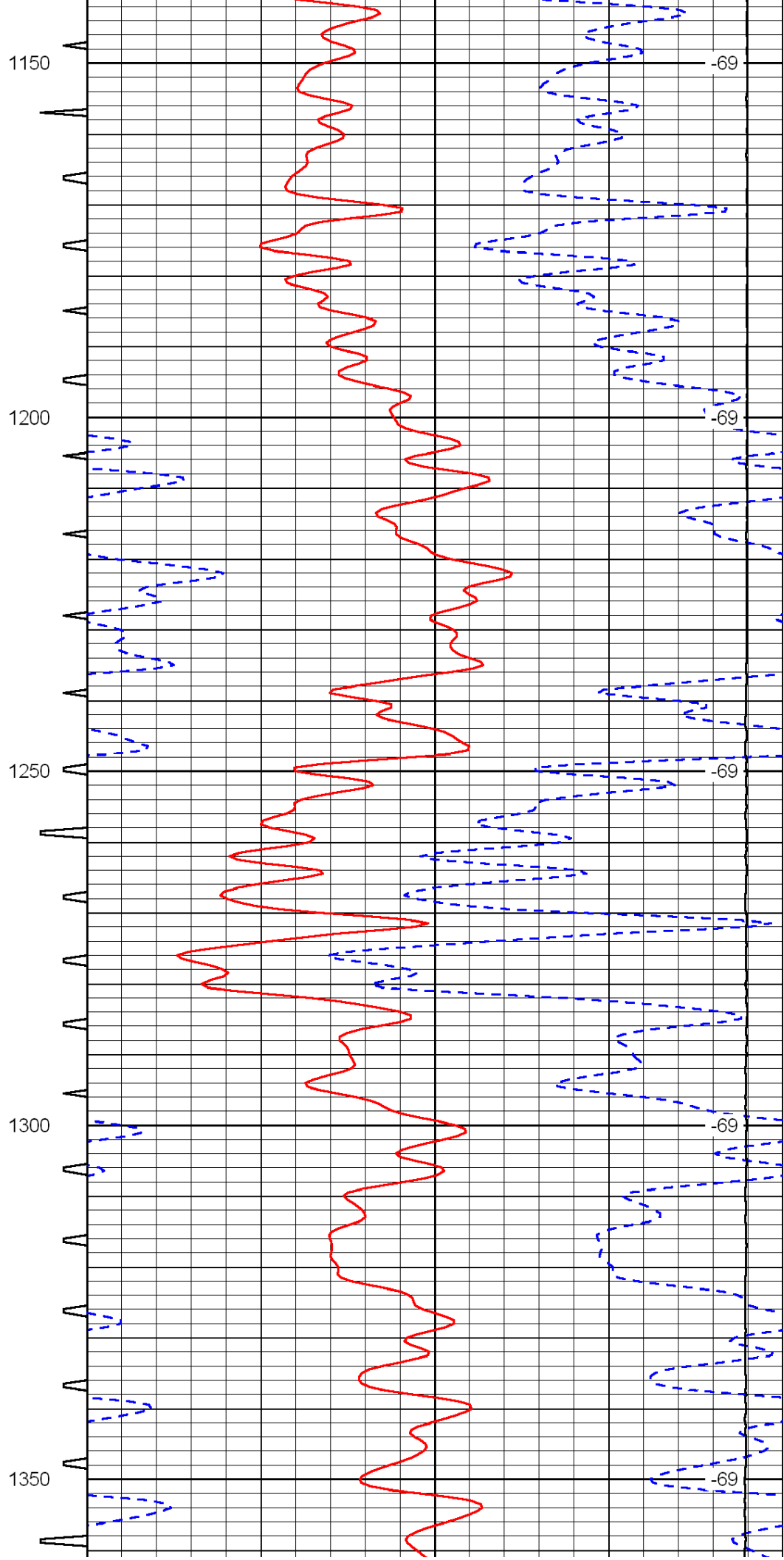
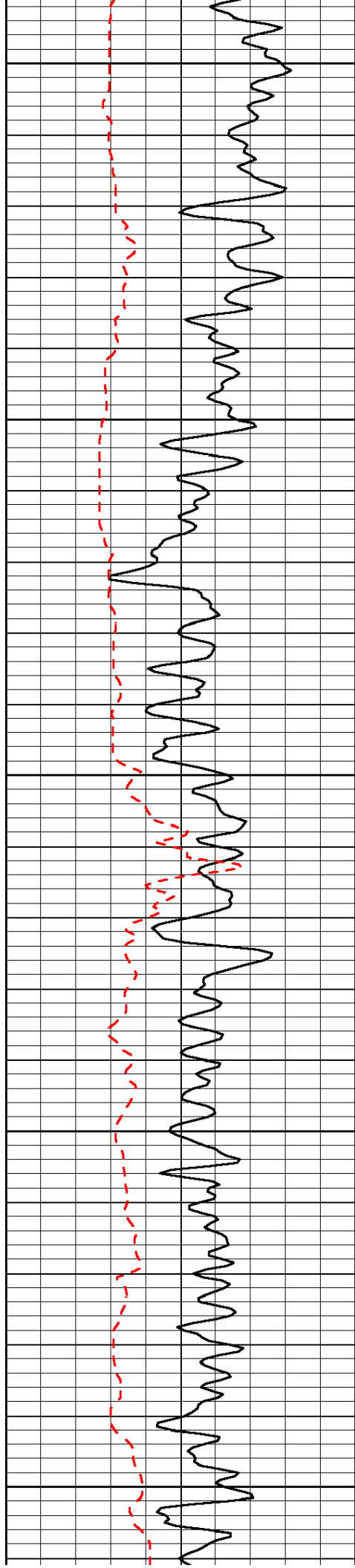
Thank you for using Log-Tech, Inc.  
(785) 625-3858

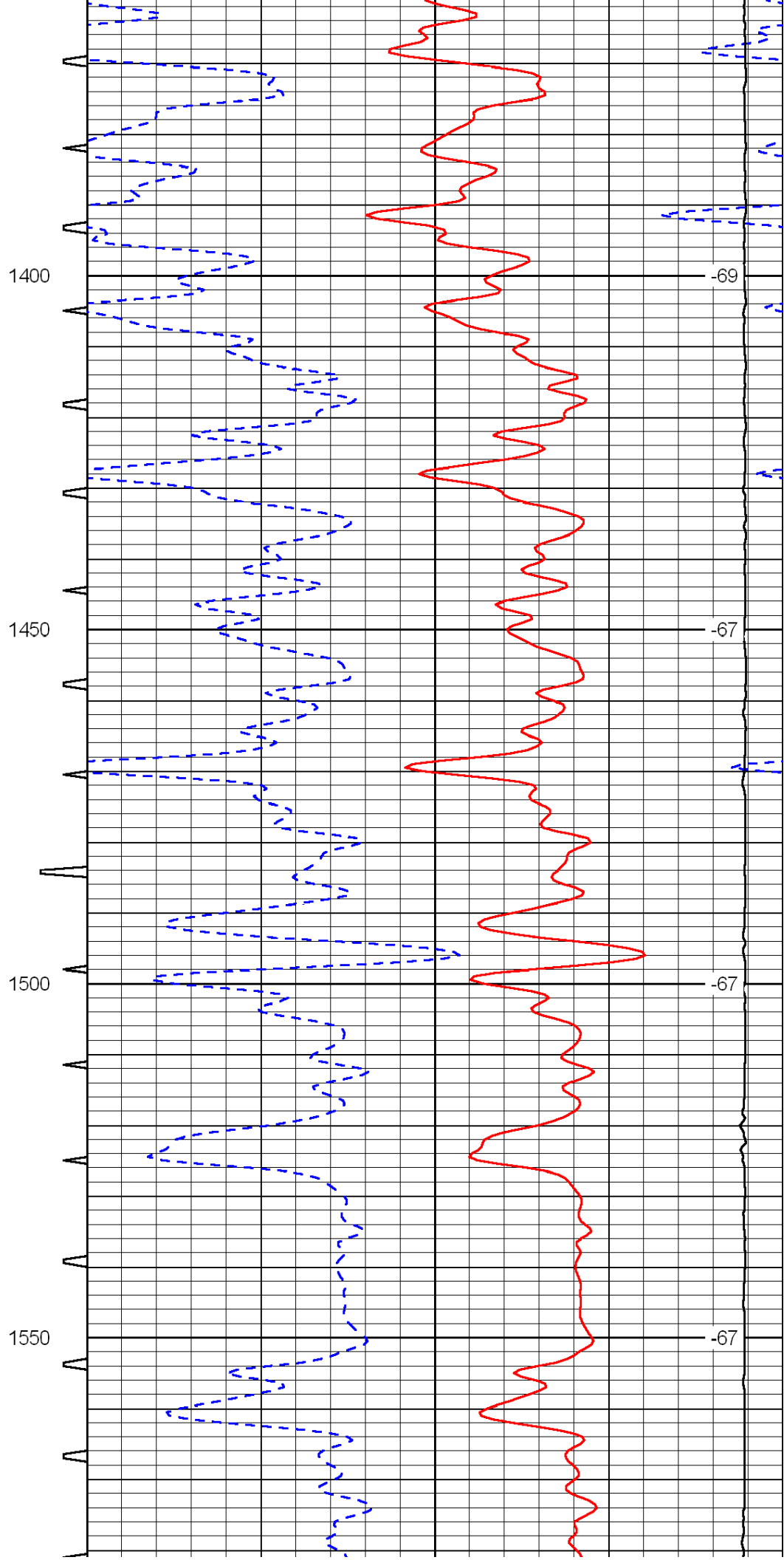
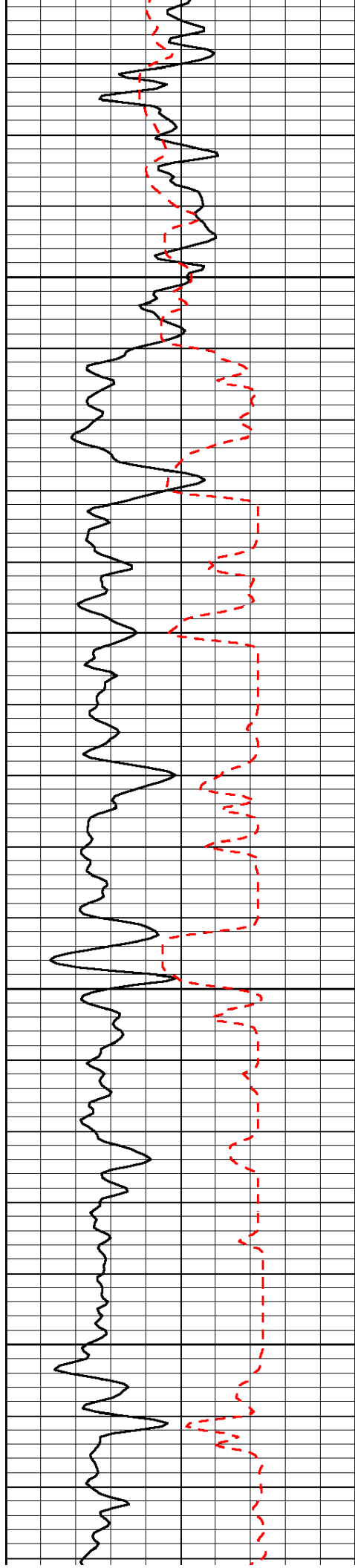
Heizer KS, 2 West to NW 90th RD,  
1 South, 1/4 West, North Into

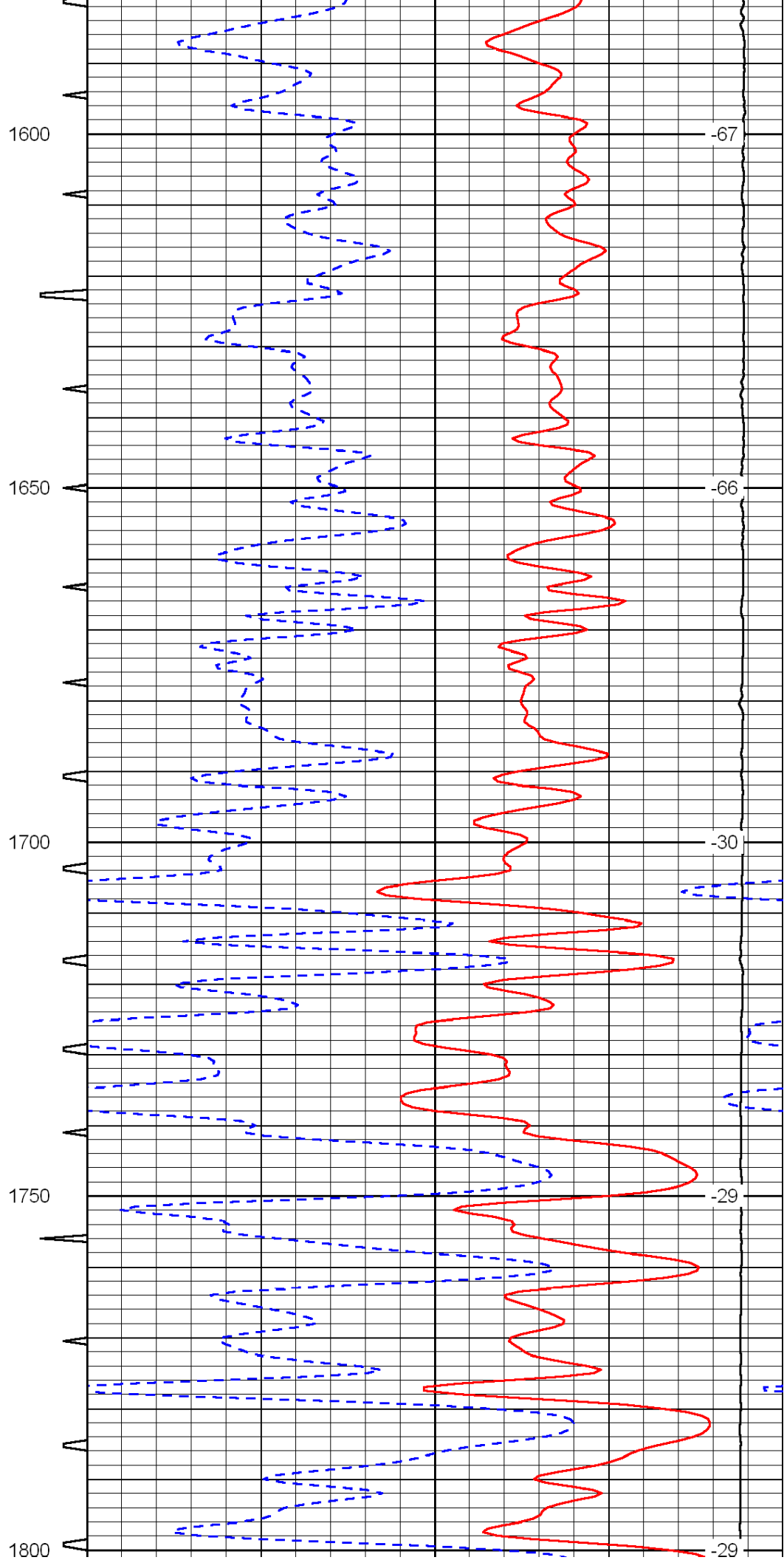
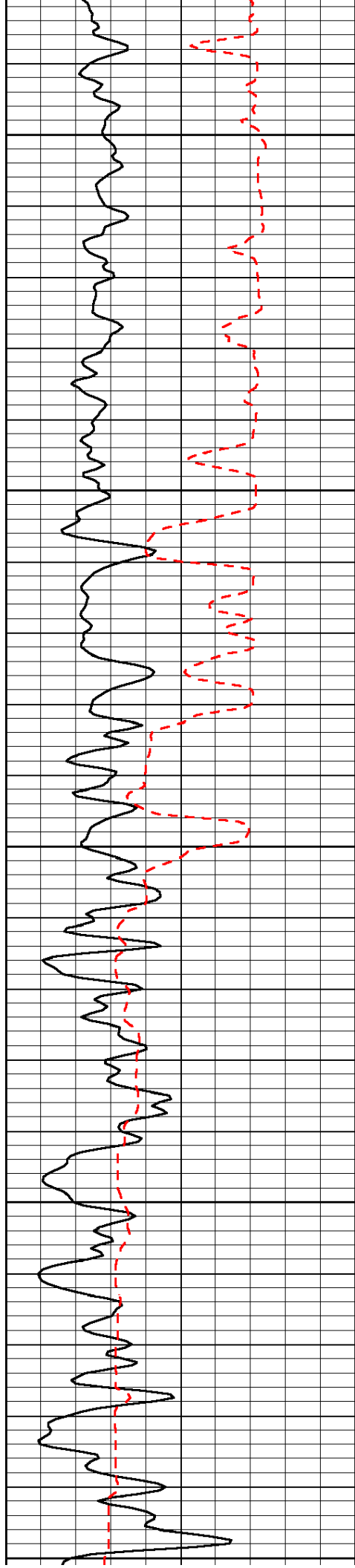
Database File: c:\warrior\data\ld drilling\_hoelscher no. 2-1\lddrilling\_hoelscher\_2\_1hd.db  
Dataset Pathname: dil\ldstk  
Presentation Format: sonic  
Dataset Creation: Mon Jul 04 13:41:40 2011  
Charted by: Depth in Feet scaled 1:240

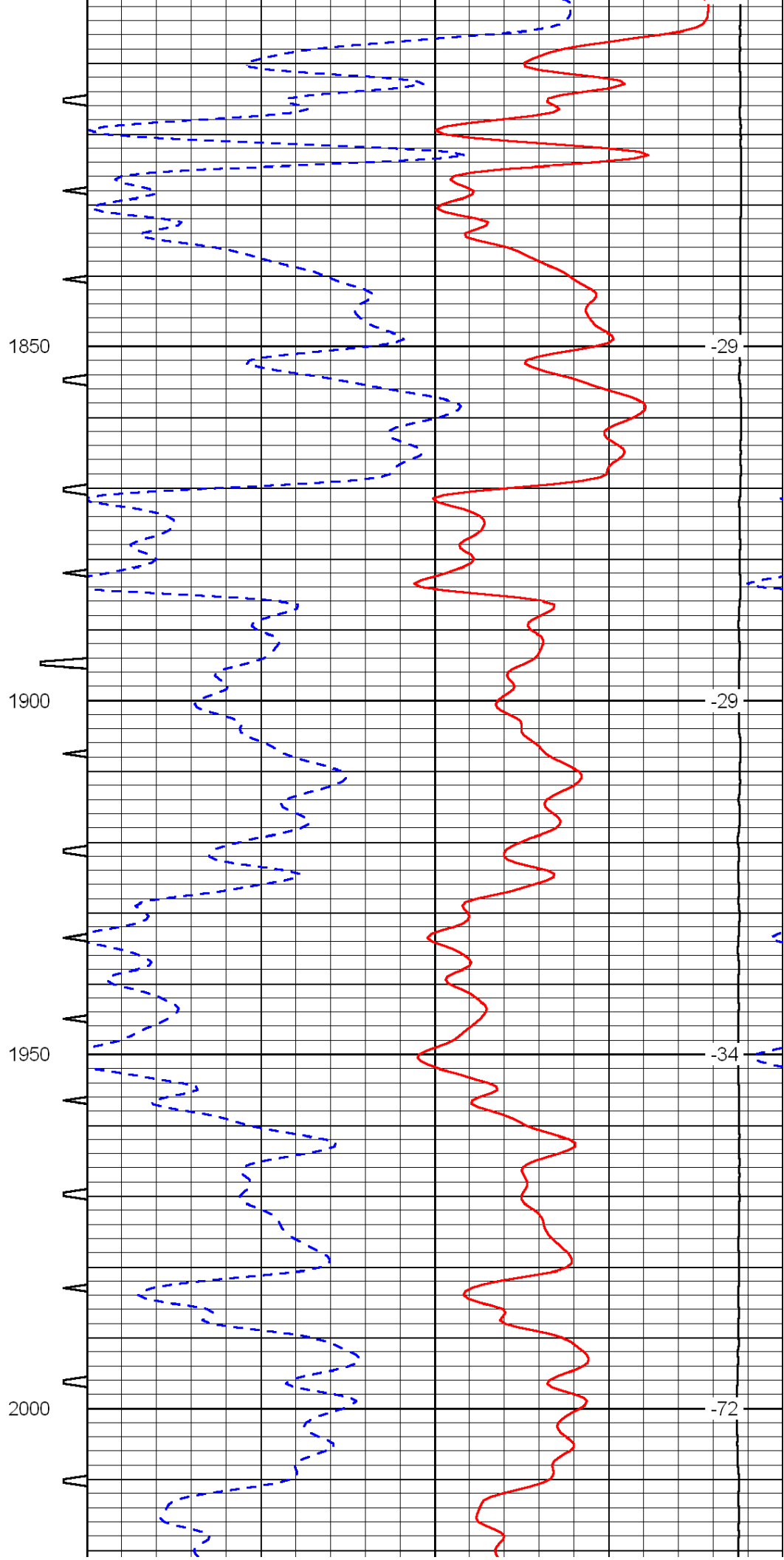
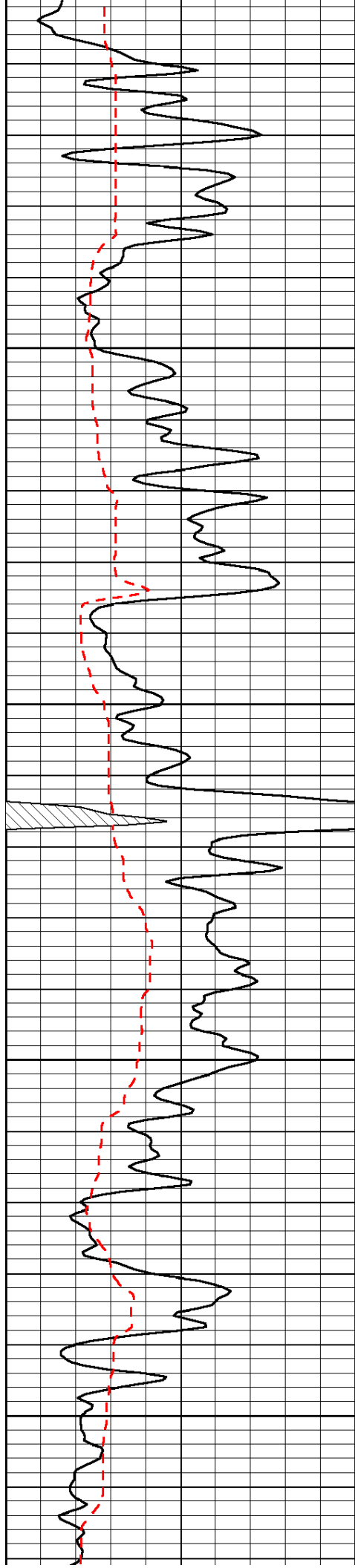
|             |                |                             |   |   |       |                      |      |
|-------------|----------------|-----------------------------|---|---|-------|----------------------|------|
| Charted by: |                | Depth in Feet scaled 1:2.15 |   |   |       |                      |      |
| 0           | Gamma Ray      | 150                         | 5 | 0 | 140   | Delta Time (usec/ft) | 40   |
| 150         | Gamma Ray      | 300                         |   |   | 30    | SPOR                 | -10  |
| 6           | Caliper (GAPI) | 16                          |   |   | 15000 | LTEN (lb)            | 0    |
|             |                |                             |   |   |       |                      | LSPD |

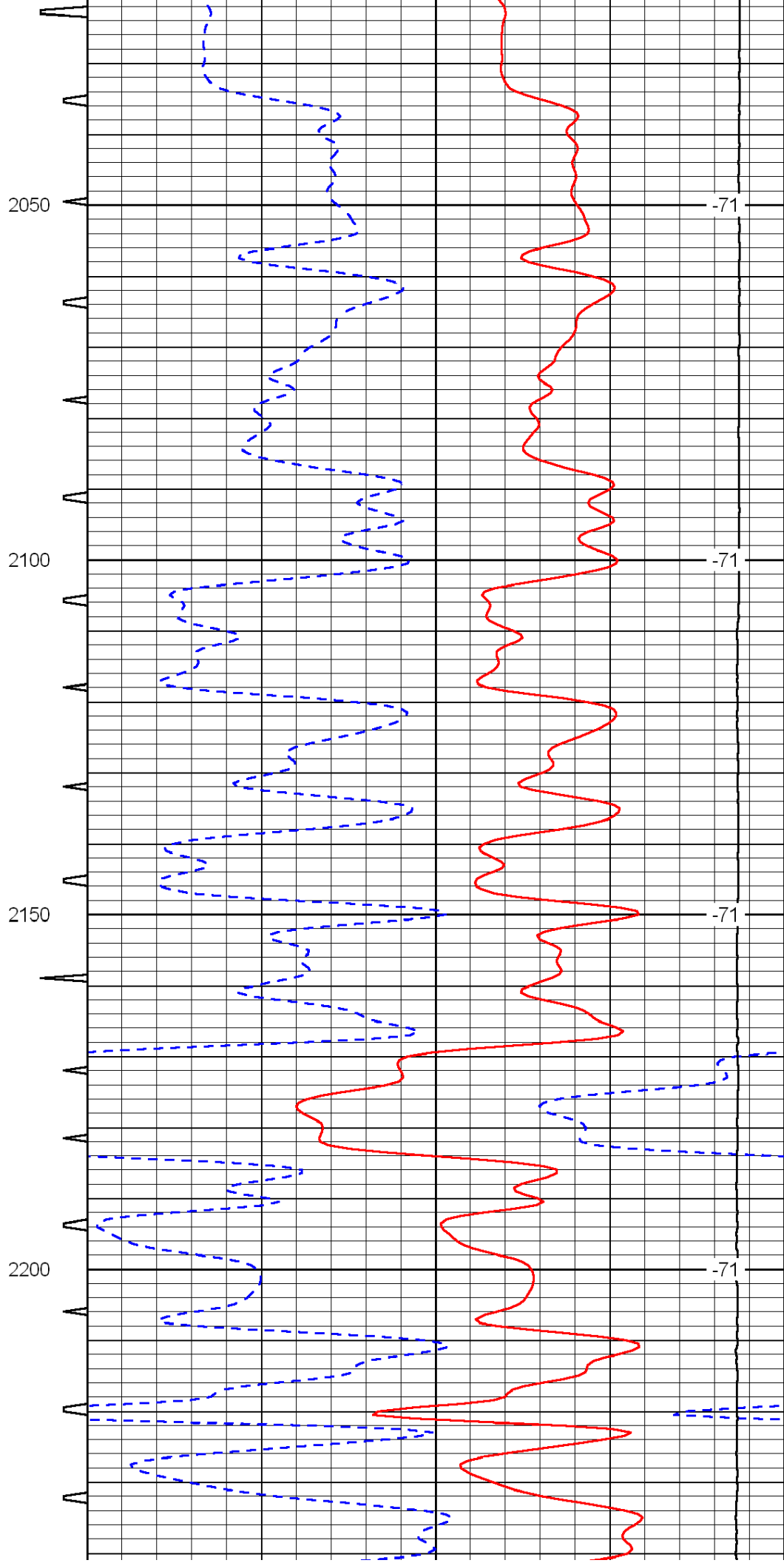
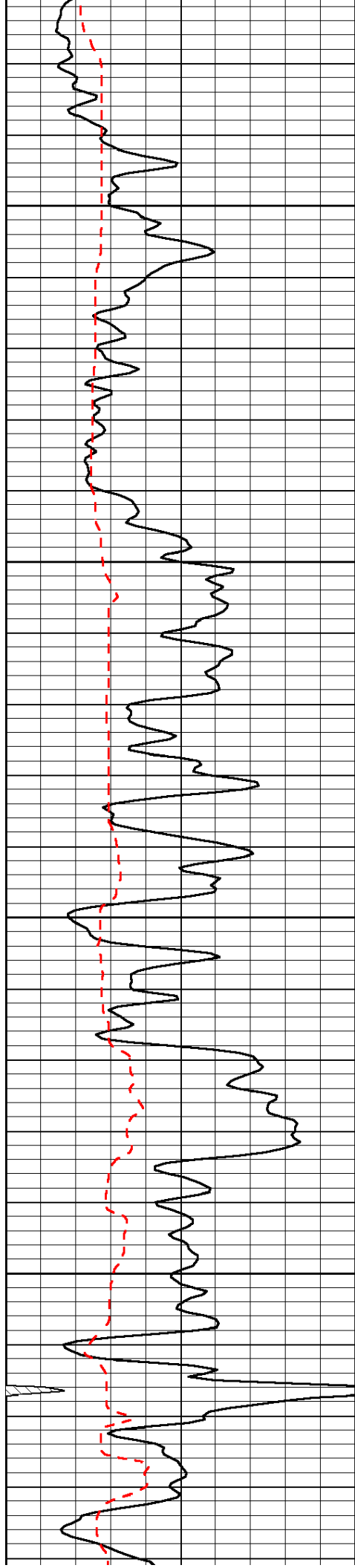


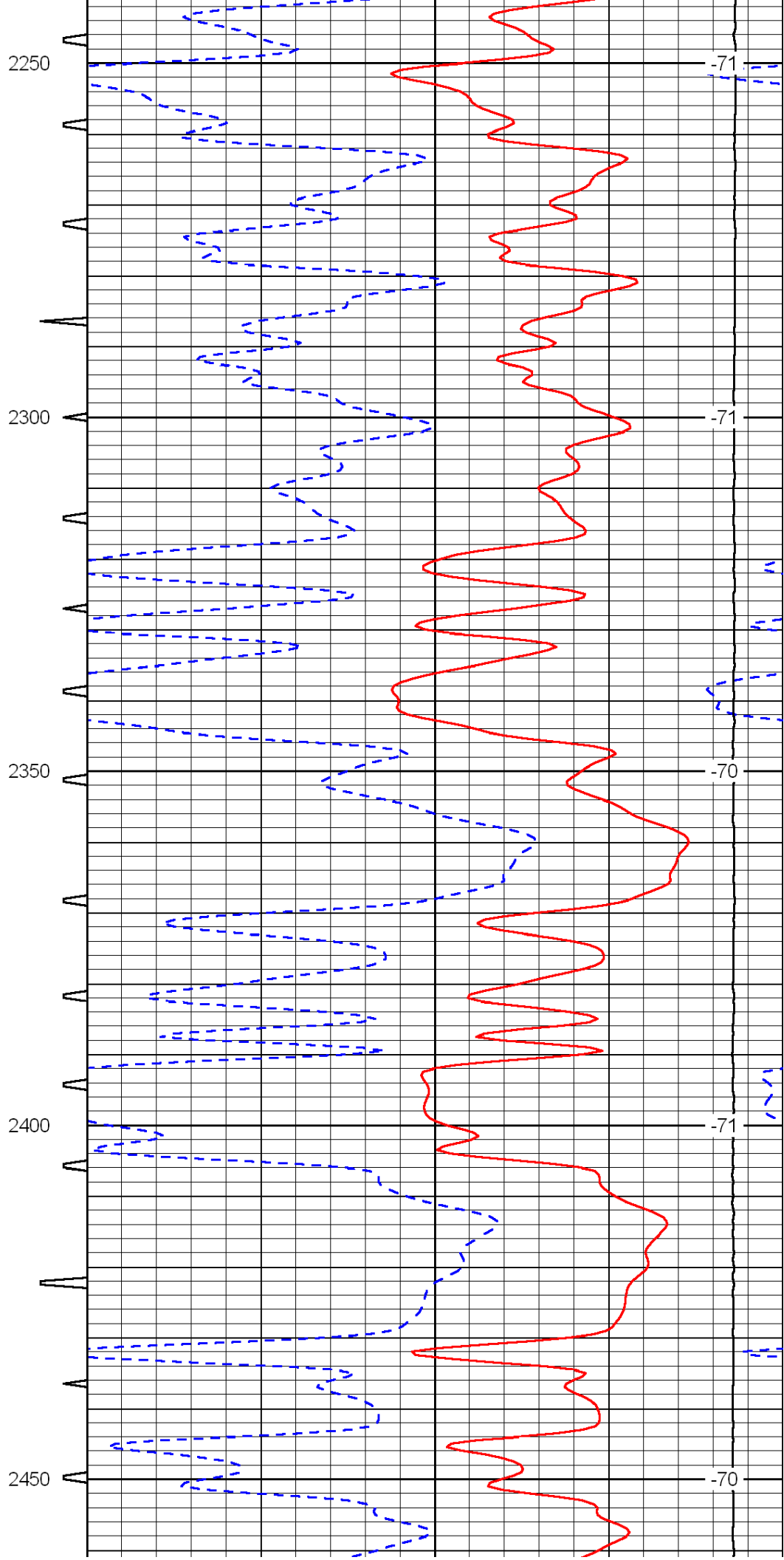
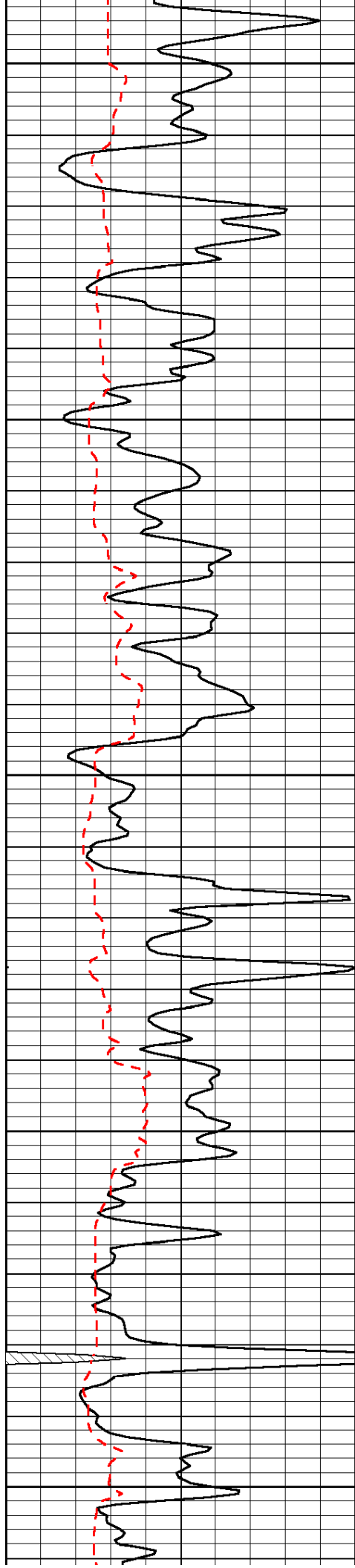




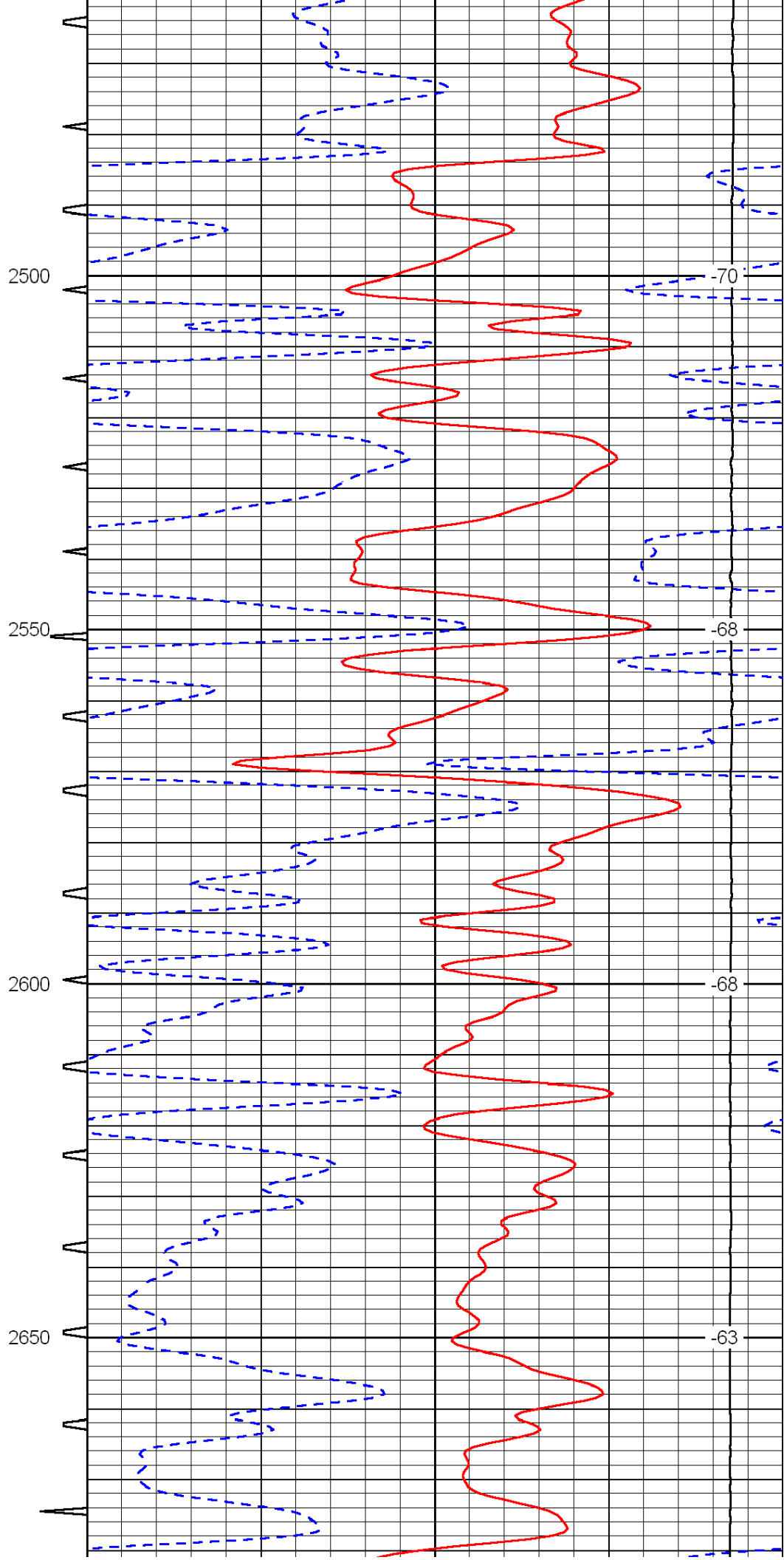
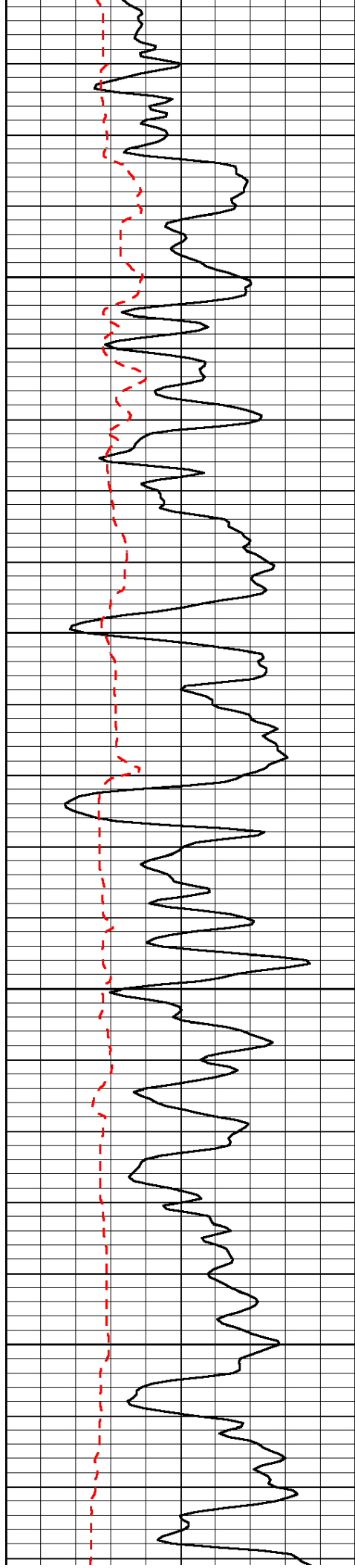


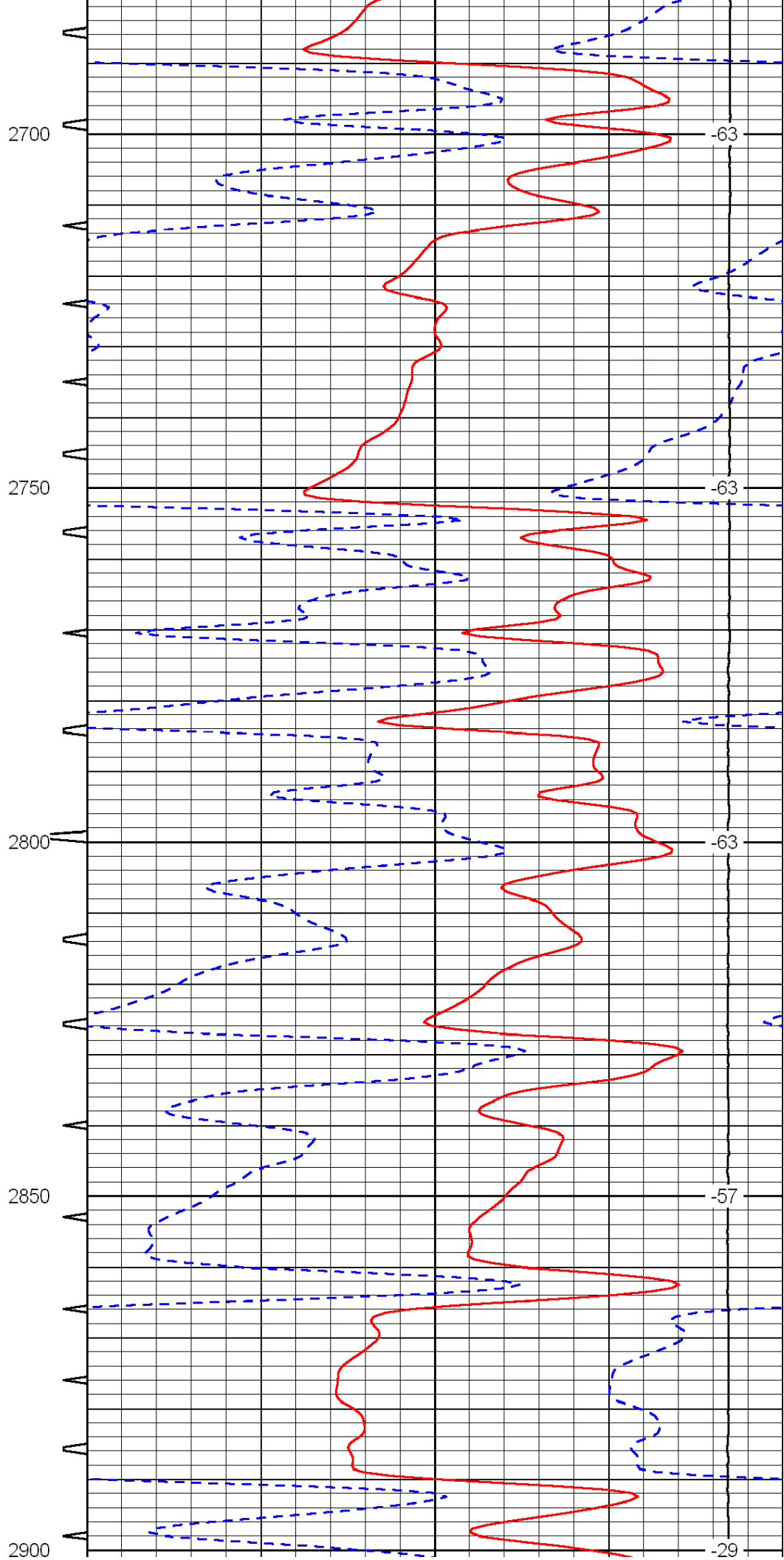
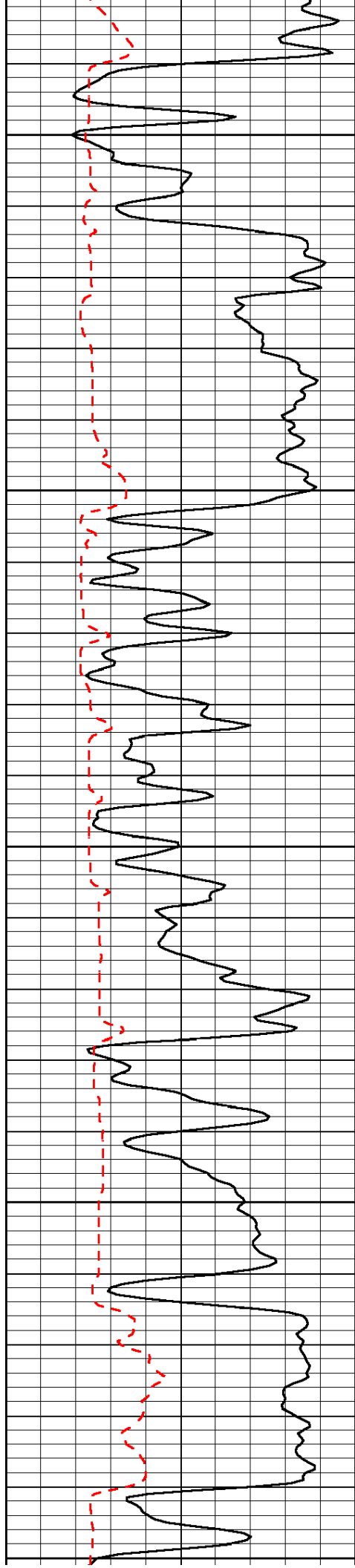


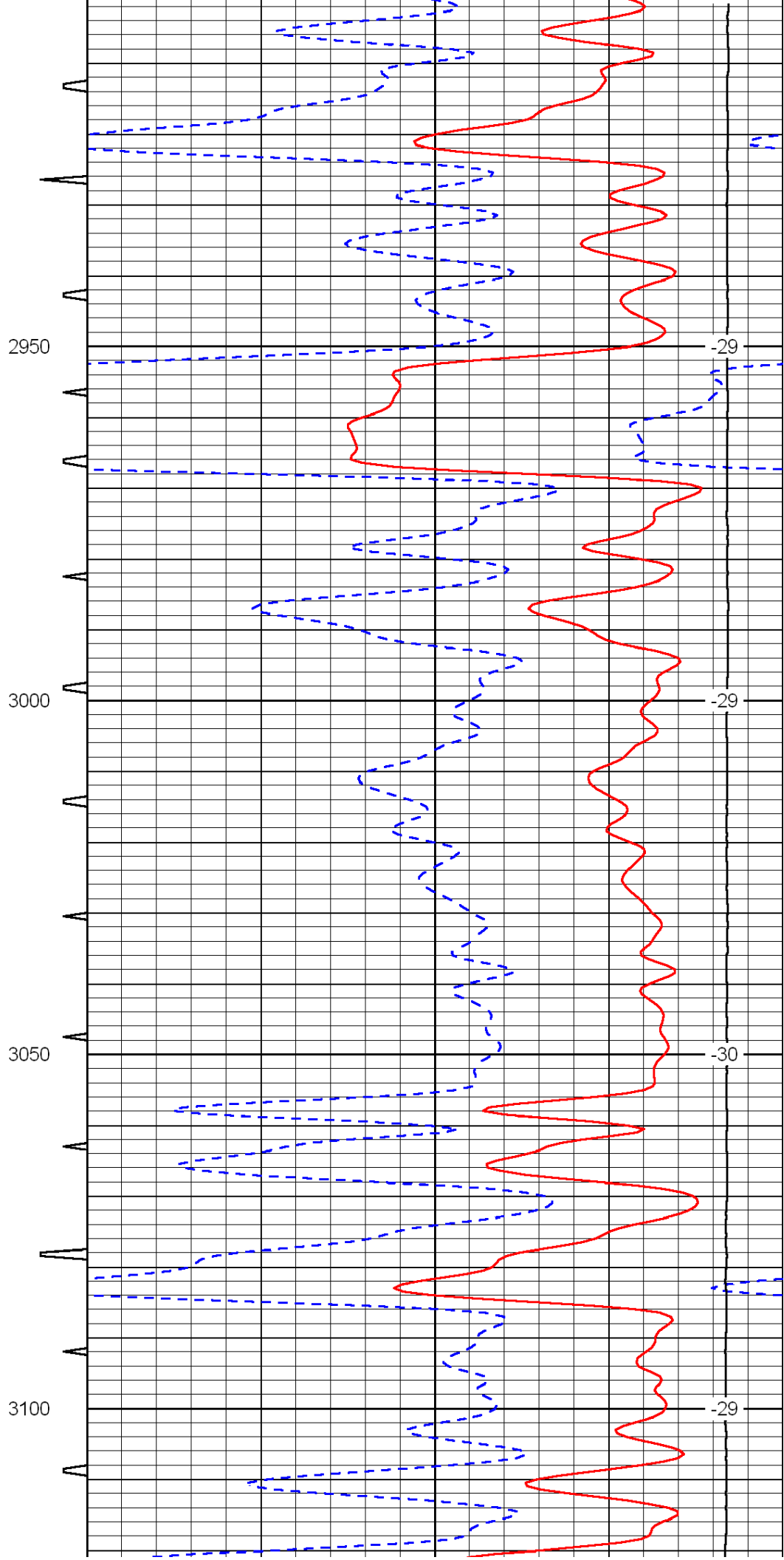
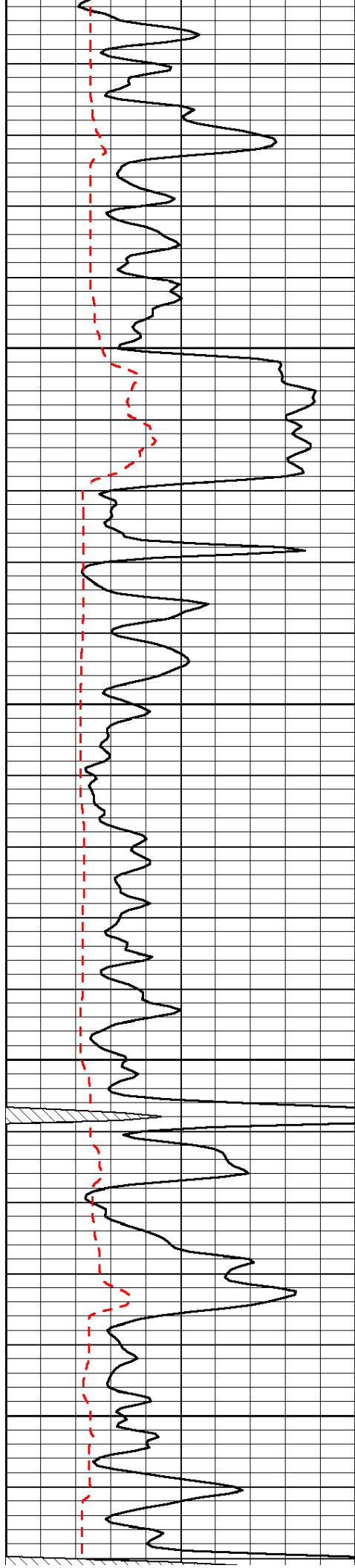


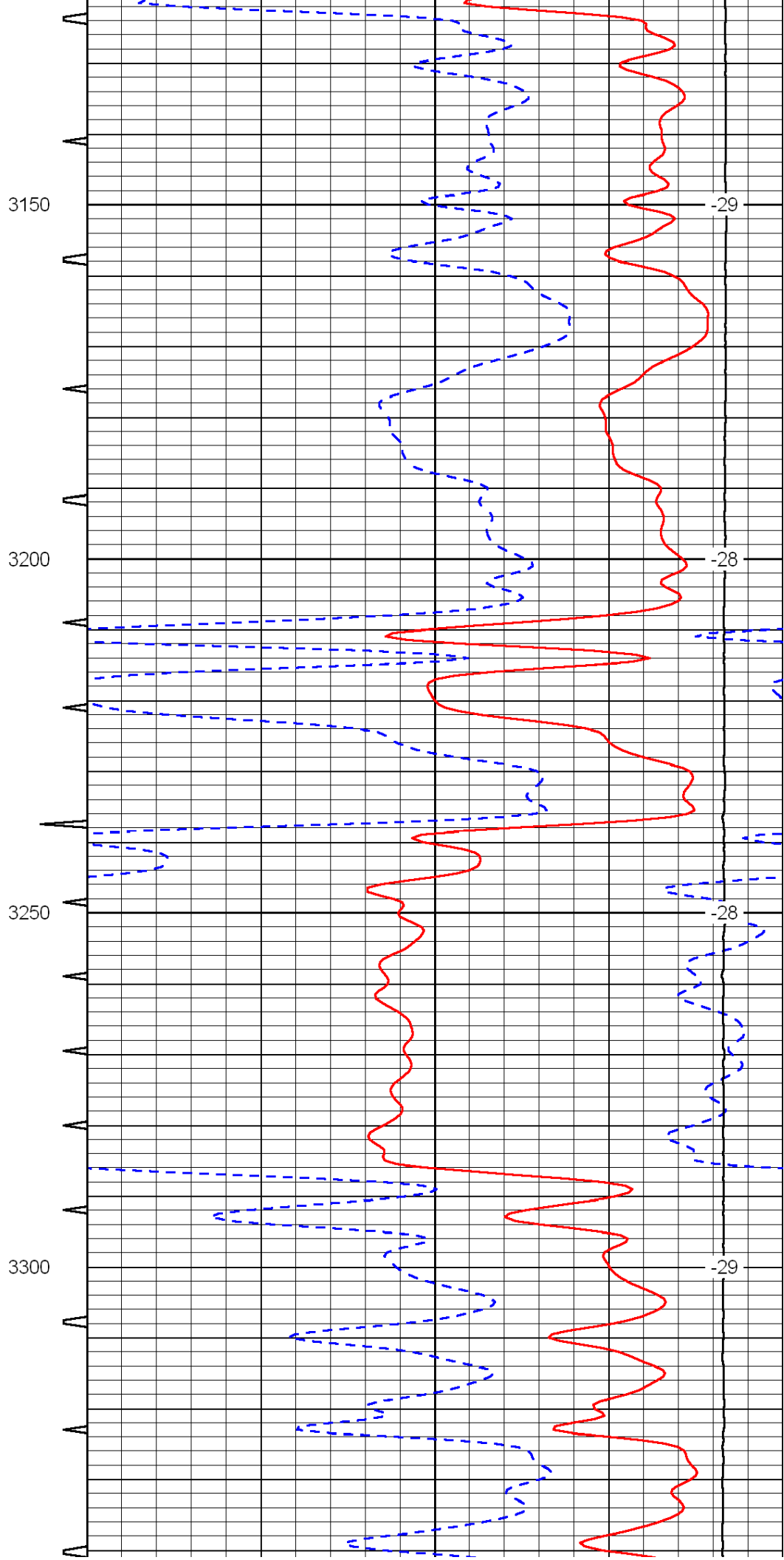
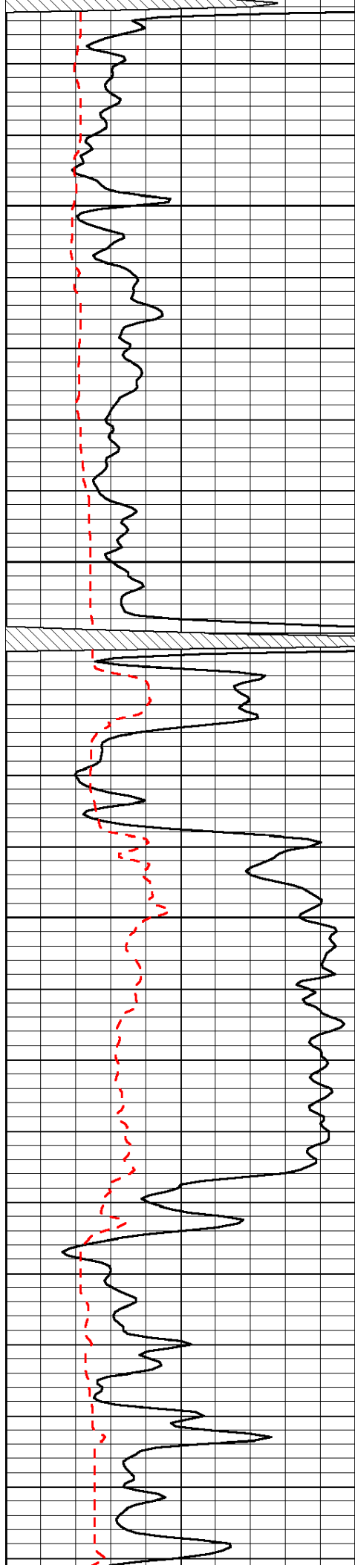


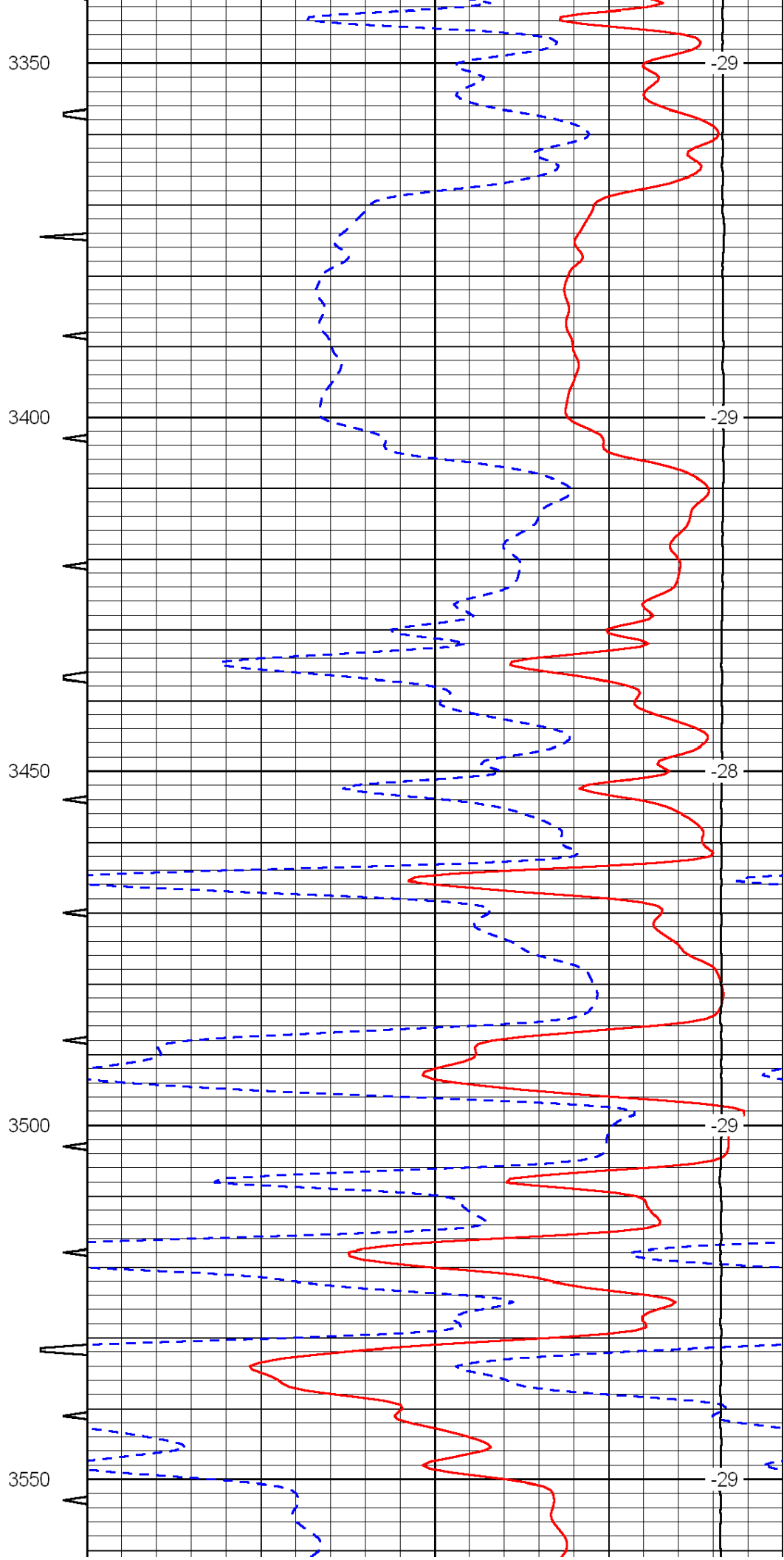
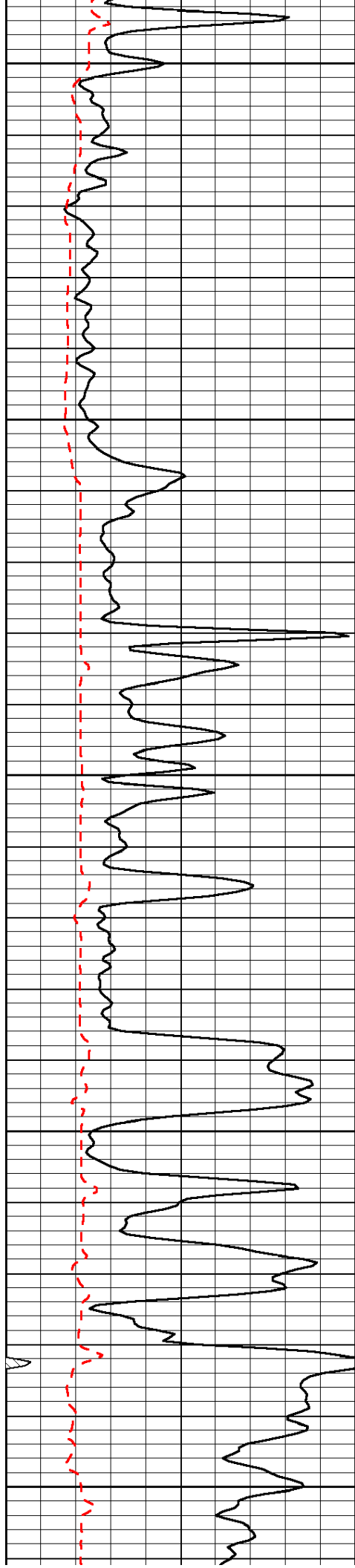


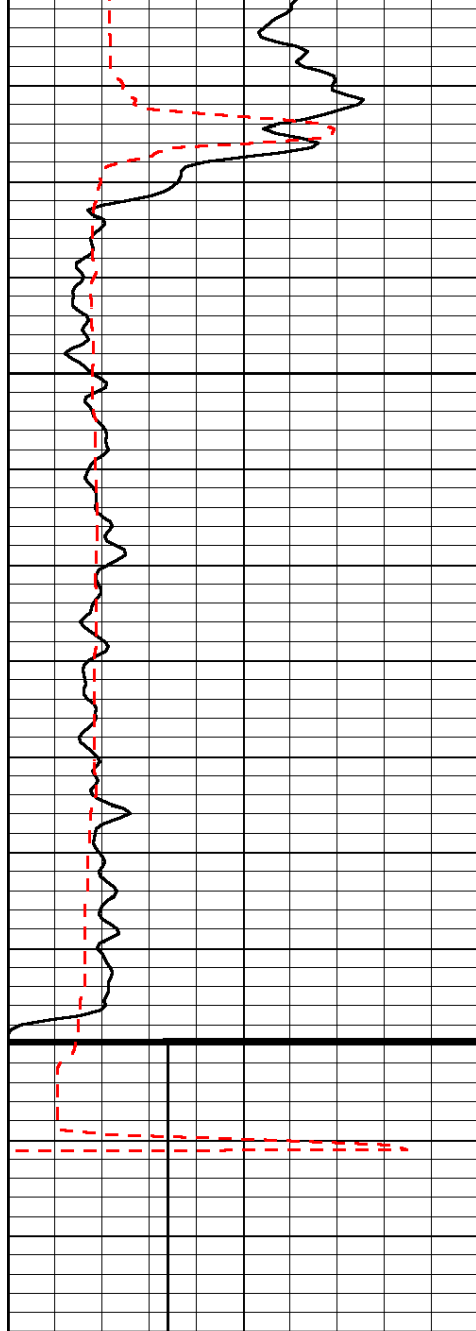




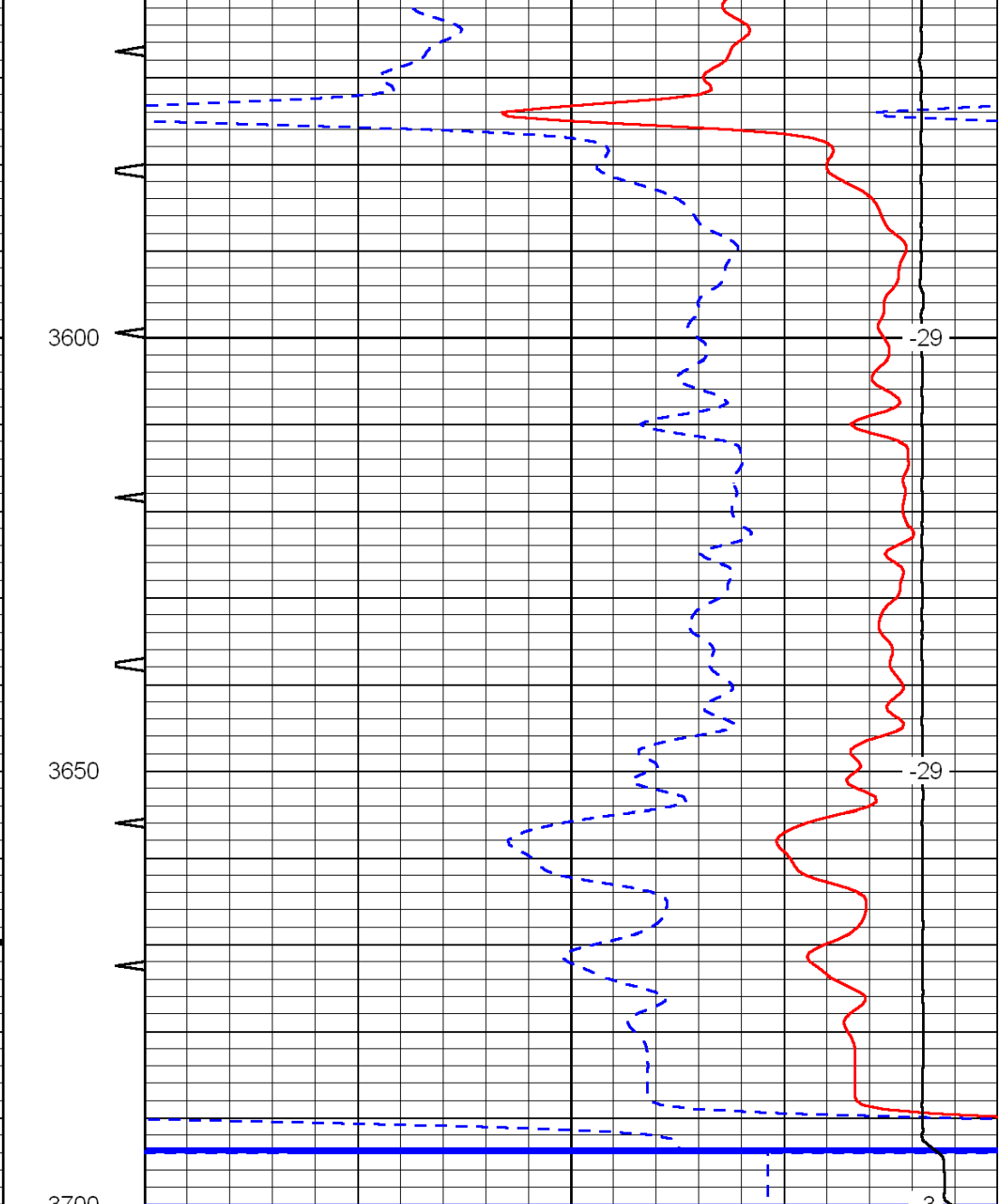








|     |                |     |
|-----|----------------|-----|
| 0   | Gamma Ray      | 150 |
| 150 | Gamma Ray      | 300 |
| 6   | Caliper (GAPI) | 16  |



|      |           |       |                      |     |
|------|-----------|-------|----------------------|-----|
| 3700 | Sonic Int | 140   | Delta Time (usec/ft) | 40  |
| 5    | 0         | 30    | SPOR                 | -10 |
|      |           | 15000 | LTEN (lb)            | 0   |

LSPD