



|         |                    |
|---------|--------------------|
| Company | NGH Oil Operations |
| Well    | Steinert B #3      |
| Field   | Steinert           |
| County  | Russell            |
| State   | Kansas             |

Country USA

**Location:**

1760' FSL &amp; 1820' FWL

SEC 21 TWP 15S RGE 15W

|                   |              |           |      |
|-------------------|--------------|-----------|------|
| Permanent Datum   | Ground Level | Elevation | 1858 |
| Log Measured From | KB 7' AGL    |           |      |

|            |  |
|------------|--|
| Elevation  |  |
| K.B. 1865' |  |
| D.F. 1964' |  |
| G.L. 1858' |  |

Run Number

## Depth Driller

Depin Logger

Bottom Logged Interval

Top Engine

Type Fluid

Density/Microneth

May Recorded Temp

Estimated Cement Ton

Time Well Ready

## Time Logger on Bottom

Equipment Number

Location

Recorded By \_\_\_\_\_

Witnessed by \_\_\_\_\_

|            |       |
|------------|-------|
| Doc Number | Boren |
|------------|-------|

|            |     |
|------------|-----|
| Nullnummer | 011 |
|------------|-----|

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|               |  |
|---------------|--|
| Casing Record |  |
|---------------|--|

|                |  |
|----------------|--|
| Surface String |  |
|----------------|--|

|                   |  |
|-------------------|--|
| Production Office |  |
| Prod. Staffing    |  |

|           |  |
|-----------|--|
| inner     |  |
| touchdown |  |

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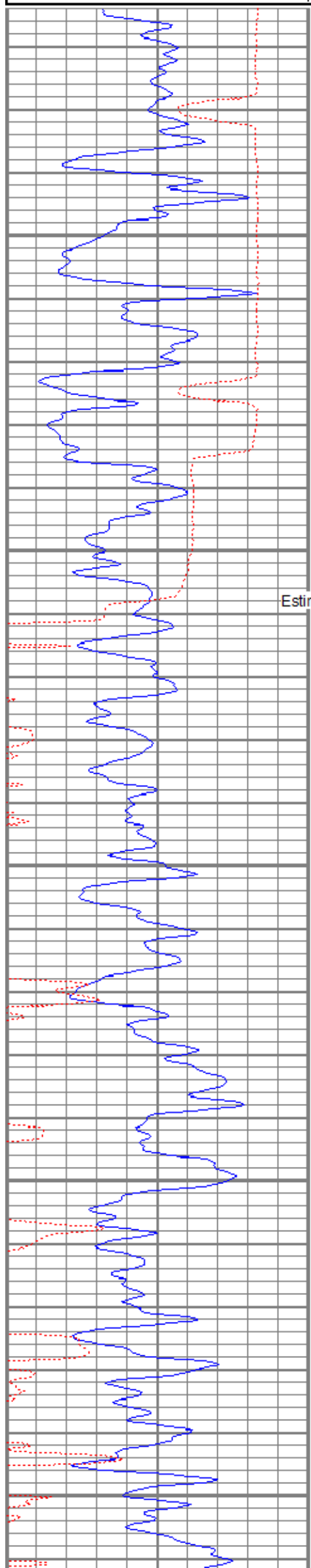
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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



|                     |                            |
|---------------------|----------------------------|
| Database File       | nghsteinertb#3cbl.db       |
| Dataset Pathname    | pass2                      |
| Presentation Format | cbl                        |
| Dataset Creation    | Wed Oct 08 09:28:29 2014   |
| Charted by          | Depth in Feet scaled 1:240 |

|     |              |     |    |             |     |     |     |      |
|-----|--------------|-----|----|-------------|-----|-----|-----|------|
| 0   | GR (GAPI)    | 150 | 18 | CCL         | -2  | 200 | VDL | 1200 |
| 150 | GR (GAPI)    | 300 | 0  | AMP3FT (mV) | 100 |     |     |      |
| 420 | TT3FT (usec) | 220 |    |             |     |     |     |      |



2300

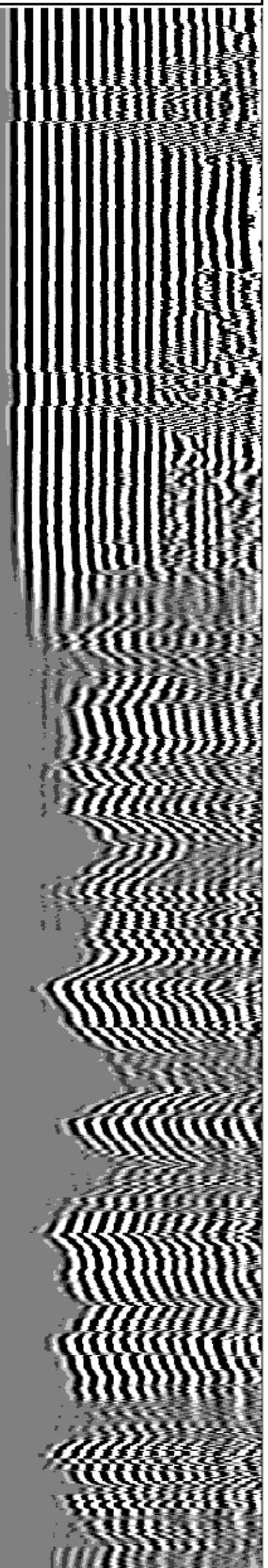
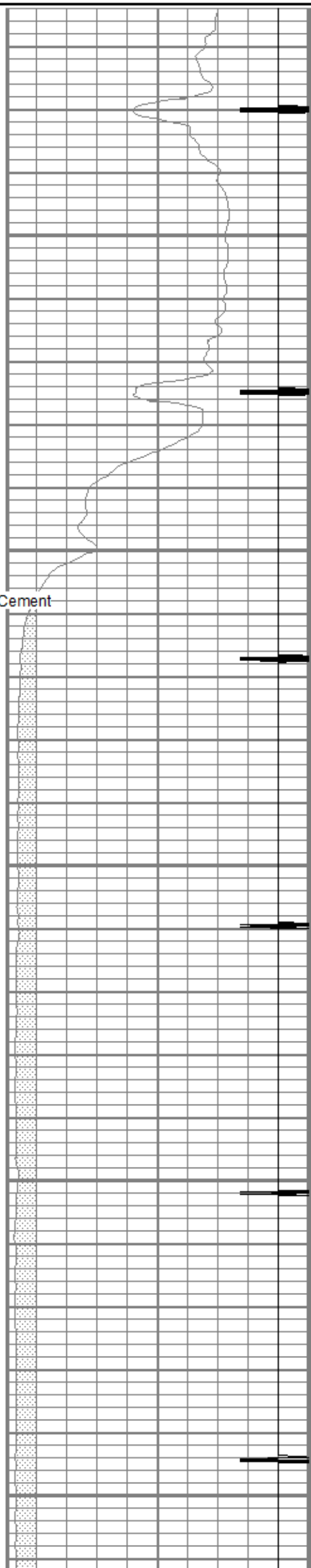
2350

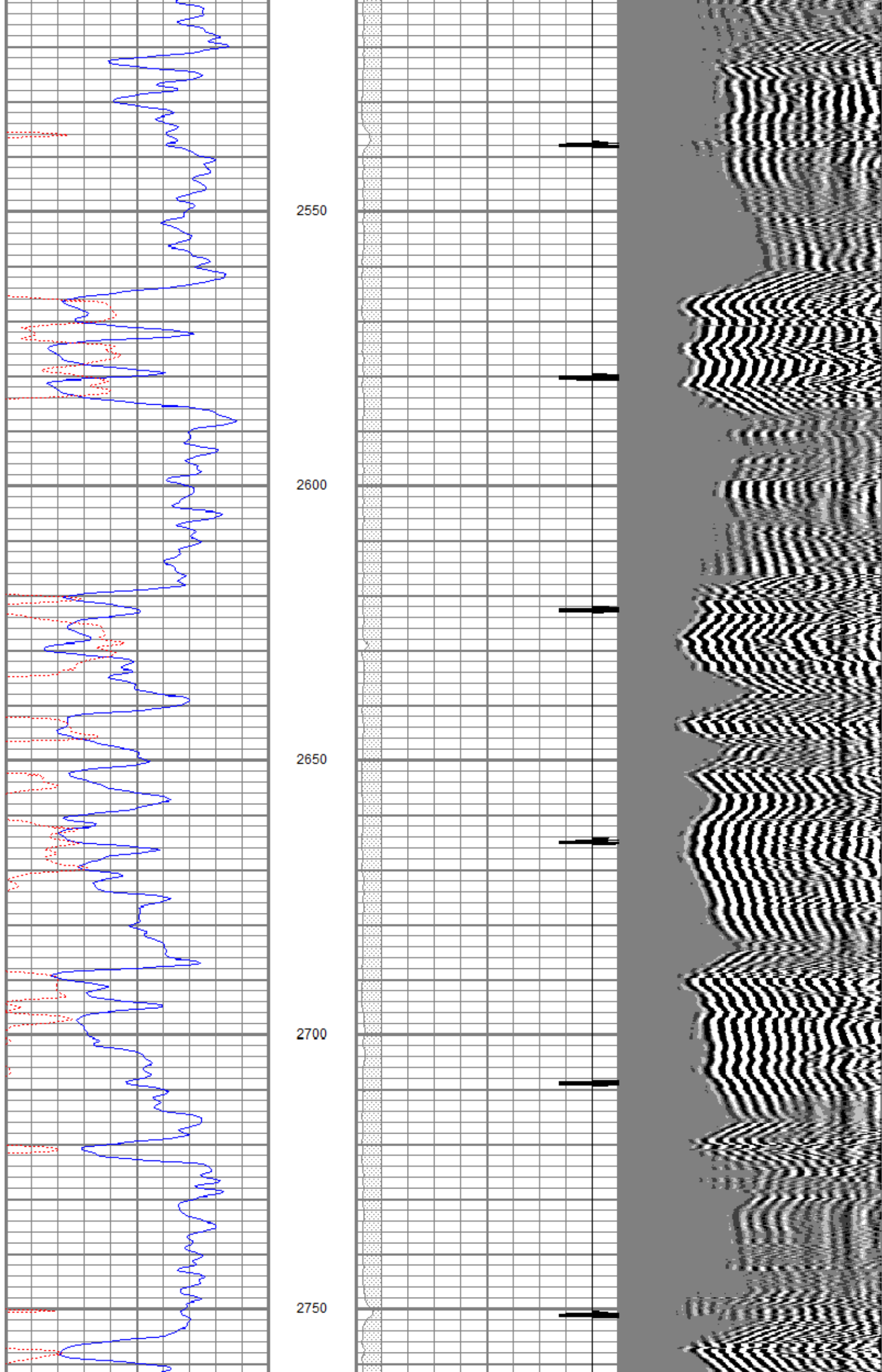
Estimated Top of Cement

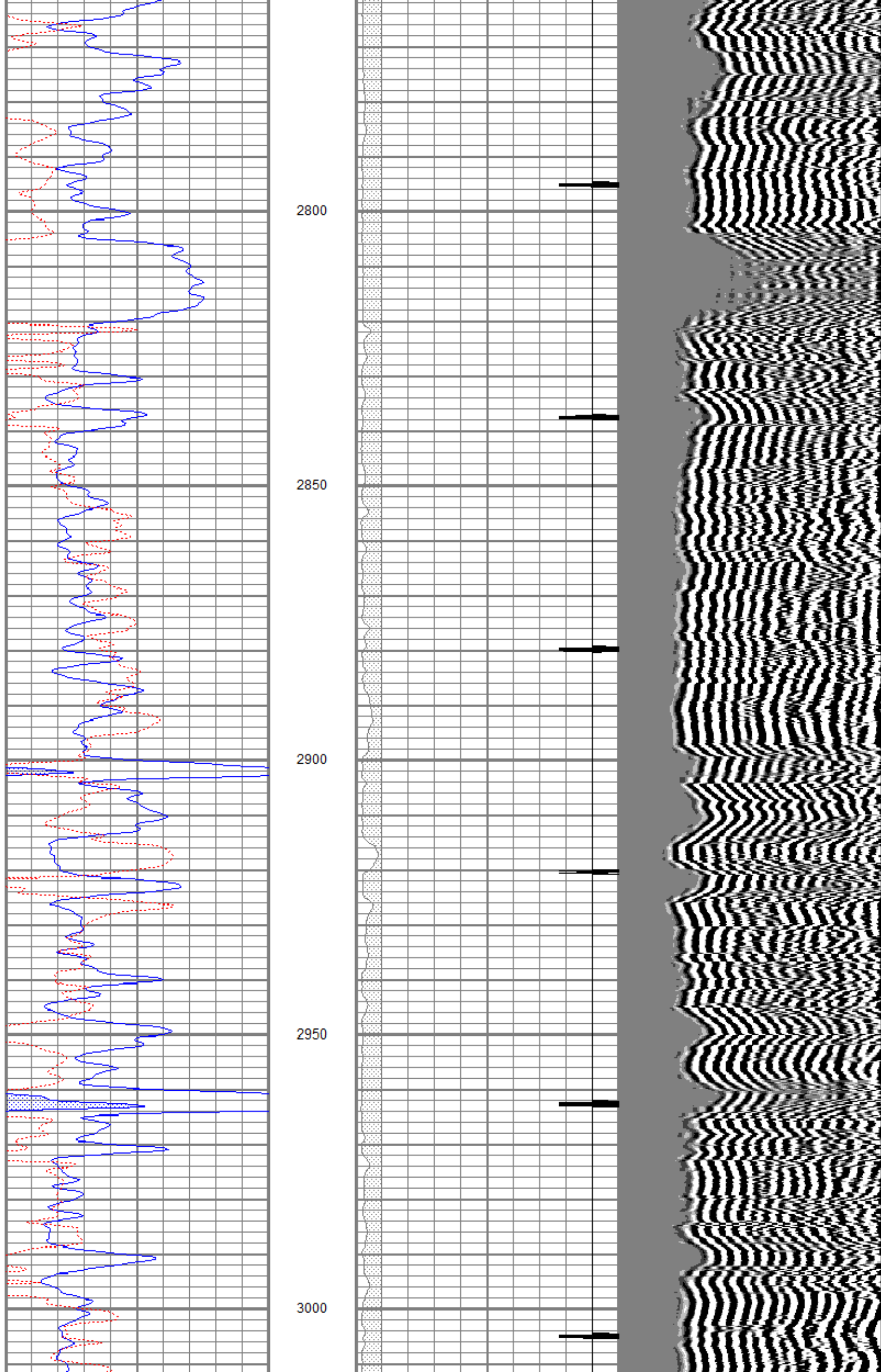
2400

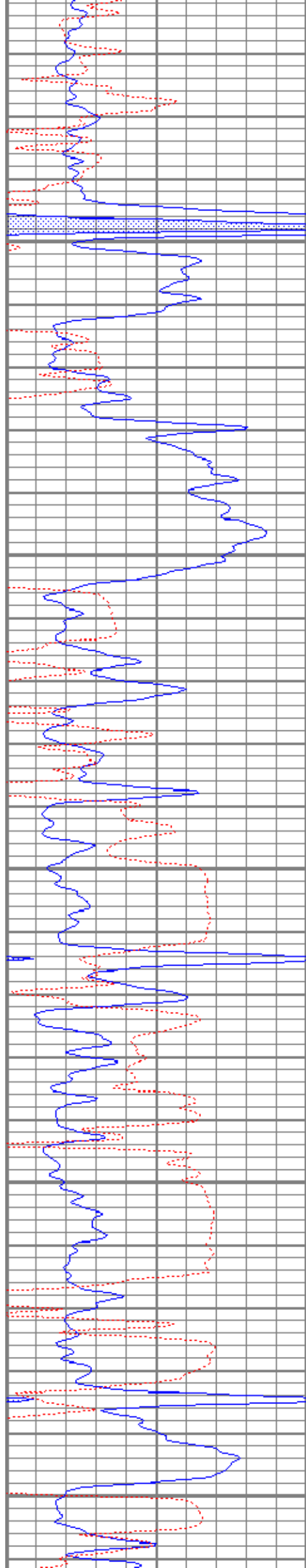
2450

2500









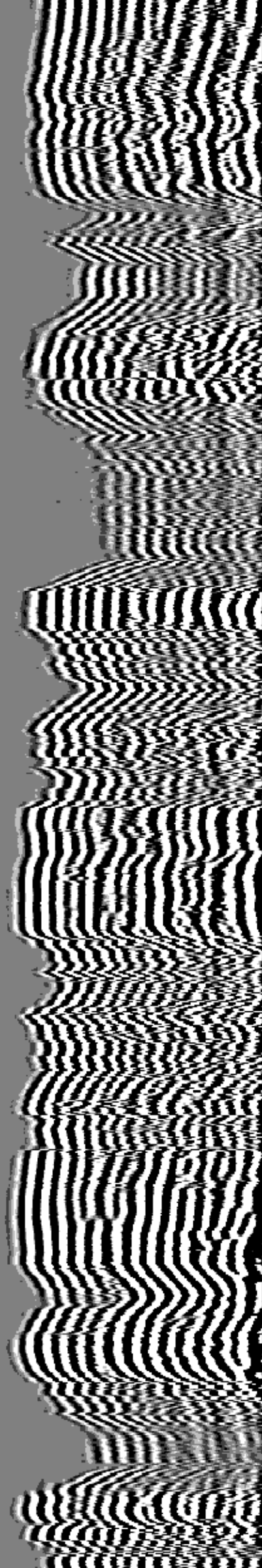
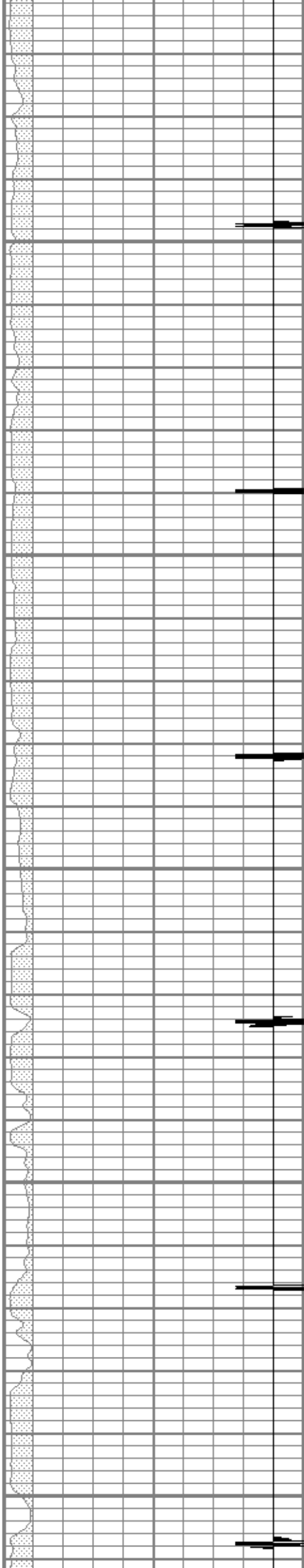
3050

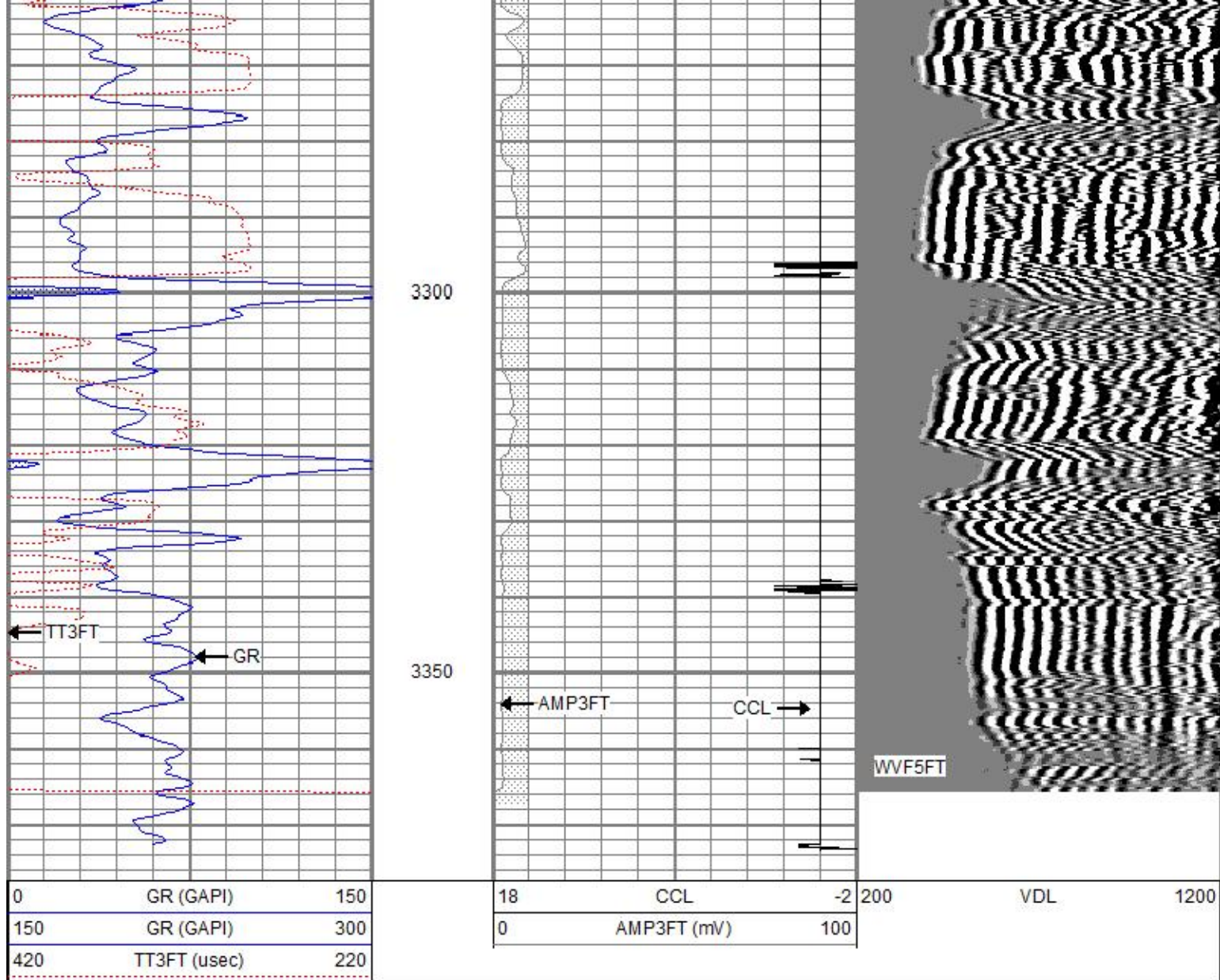
3100

3150

3200

3250

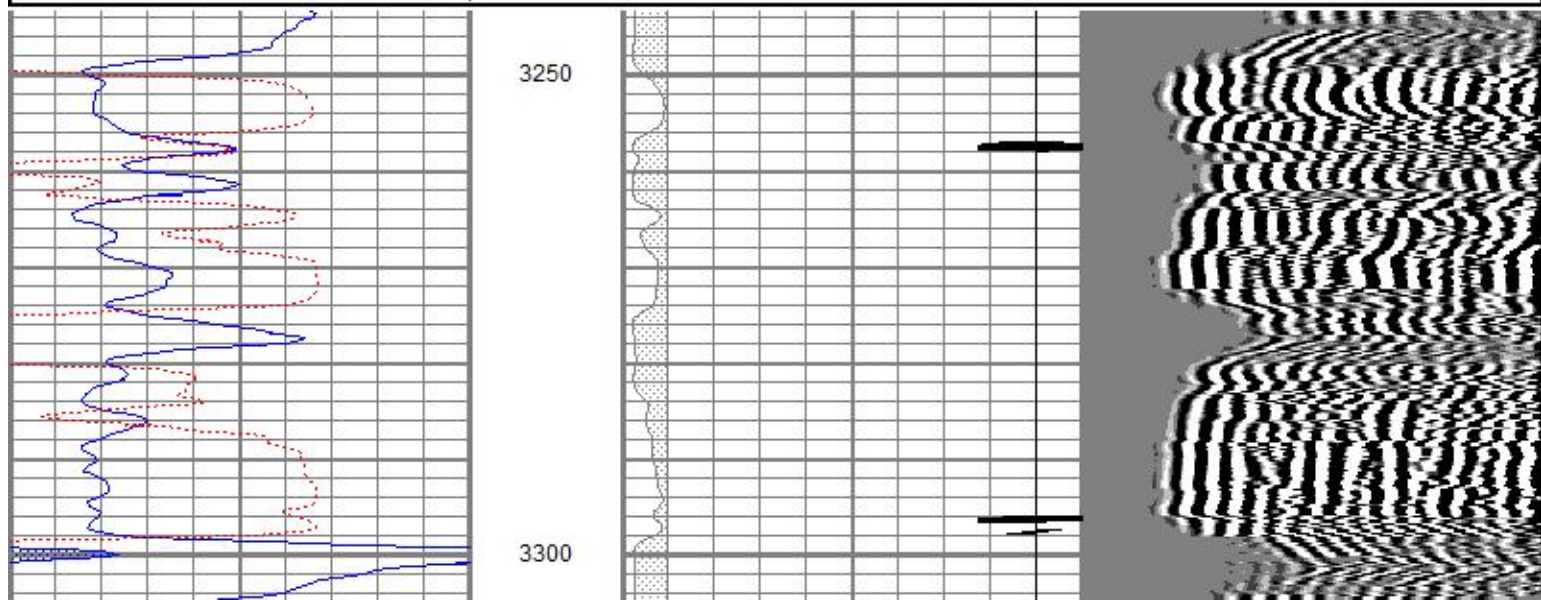


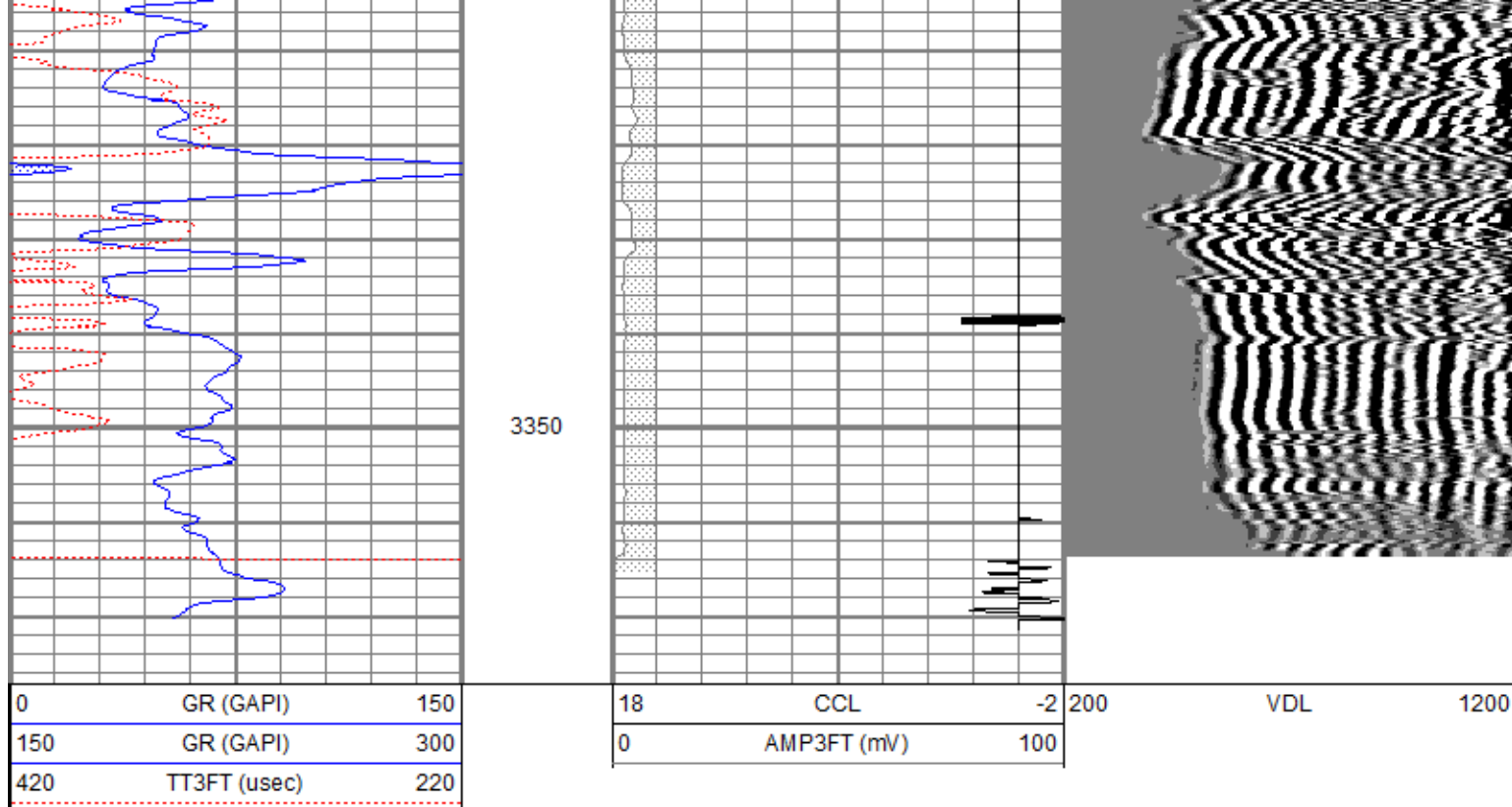


## Repeat Pass

Database File nqhsteinerb#3cbl.db  
 Dataset Pathname pass1  
 Presentation Format cbl  
 Dataset Creation Wed Oct 08 09:23:56 2014  
 Charted by Depth in Feet scaled 1:240

|     |              |     |    |             |     |     |     |      |
|-----|--------------|-----|----|-------------|-----|-----|-----|------|
| 0   | GR (GAPI)    | 150 | 18 | CCL         | -2  | 200 | VDL | 1200 |
| 150 | GR (GAPI)    | 300 | 0  | AMP3FT (mV) | 100 |     |     |      |
| 420 | TT3FT (usec) | 220 |    |             |     |     |     |      |





| Calibration Report                                         |                          |          |                 |        |         |        |
|------------------------------------------------------------|--------------------------|----------|-----------------|--------|---------|--------|
| Database File                                              | nghsteinertb#3cbl.db     |          |                 |        |         |        |
| Dataset Pathname                                           | pass2                    |          |                 |        |         |        |
| Dataset Creation                                           | Wed Oct 08 09:28:29 2014 |          |                 |        |         |        |
| Gamma Ray Calibration Report                               |                          |          |                 |        |         |        |
| Serial Number:                                             | 080224                   |          |                 |        |         |        |
| Tool Model:                                                | Probe1                   |          |                 |        |         |        |
| Performed:                                                 | Thu May 16 07:41:41 2013 |          |                 |        |         |        |
| Calibrator Value:                                          | 200.0                    | GAPI     |                 |        |         |        |
| Background Reading:                                        | 15.0                     | cps      |                 |        |         |        |
| Calibrator Reading:                                        | 222.7                    | cps      |                 |        |         |        |
| Sensitivity:                                               | 0.9629                   | GAPI/cps |                 |        |         |        |
| Segmented Cement Bond Log Calibration Report               |                          |          |                 |        |         |        |
| Serial Number:                                             | 080201                   |          |                 |        |         |        |
| Tool Model:                                                | DigitalCBL               |          |                 |        |         |        |
| Calibration Casing Diameter:                               | 5.500                    | in       |                 |        |         |        |
| Calibration Depth:                                         | -2942.524                | ft       |                 |        |         |        |
| Master Calibration, performed Wed Sep 24 11:02:27 2014:    |                          |          |                 |        |         |        |
|                                                            | Raw (v)                  |          | Calibrated (mv) |        | Results |        |
|                                                            | Zero                     | Cal      | Zero            | Cal    | Gain    | Offset |
| 3'                                                         | 0.015                    | 0.951    | 1.000           | 71.921 | 75.771  | -0.152 |
| CAL                                                        |                          |          |                 |        |         |        |
| 5'                                                         | 0.015                    | 0.910    | 1.000           | 71.921 | 79.215  | -0.204 |
| SUM                                                        |                          |          |                 |        |         |        |
| S1                                                         |                          |          |                 |        |         |        |
| S2                                                         |                          |          |                 |        |         |        |
| S3                                                         |                          |          |                 |        |         |        |
| S4                                                         |                          |          |                 |        |         |        |
| S5                                                         |                          |          |                 |        |         |        |
| S6                                                         |                          |          |                 |        |         |        |
| S7                                                         |                          |          |                 |        |         |        |
| S8                                                         |                          |          |                 |        |         |        |
| Internal Reference Calibration, performed (Not Performed): |                          |          |                 |        |         |        |
|                                                            | Raw (v)                  |          | Calibrated (v)  |        | Results |        |
|                                                            | Zero                     | Cal      | Zero            | Cal    | Gain    | Offset |

Raw (v)

Calibrated (v)

## Results

Zero

Zero

Offset

|     |       |       |       |
|-----|-------|-------|-------|
| 3'  | 0.000 | 0.000 | 0.000 |
| 5'  | 0.000 | 0.000 | 0.000 |
| SUM |       |       |       |
| S1  |       |       |       |
| S2  |       |       |       |
| S3  |       |       |       |
| S4  |       |       |       |
| S5  |       |       |       |
| S6  |       |       |       |
| S7  |       |       |       |
| S8  |       |       |       |

SensorOffset (ft)

### Schematic

DescriptionLength (ft)O.D. (in)Weight (lb)WVF5FT11.6911 69-CHD-sdscho0.751443.00

CENT-275  
2 3/4" Centralizer

2.942.7510.00

Probedig-DigitalCBL (080201)  
2 3/4 Bond Tool

8.772.7592.00

CENT-275  
2 3/4" Centralizer

2.942.75

10.00

-CCl-Probe (080224)1422.7520 00-GR-Probe1 (080224)3.082.7540.00

Dataset: nghsteinertb#3cbl.db: field/well/run1/pass2  
Total length: 19.89 ft  
Total weight: 175.00 lb  
O.D.: 2.75 in