



**SUPERIOR  
Hays,  
Kansas**

**DUAL  
INDUCTION  
LOG**

|                              |               |         |             |                                           |                           |                |
|------------------------------|---------------|---------|-------------|-------------------------------------------|---------------------------|----------------|
| Company                      | PAXCO, INC.   | Company | PAXCO, INC. | Location:                                 | API # : 15-051-25871-0000 | Other Services |
| Well                         | SANDER #12    | Well    | SANDER #12  | 2172' FNL & 447' FEL                      |                           | CDL/CNL        |
| Field                        | TOULON        | Field   | TOULON      | SW - SW - NW                              |                           | MEL            |
| County                       | ELLIS         | County  | ELLIS       | SEC 10 TWP 14S RGE 17W                    |                           | Elevation      |
| State                        | KANSAS        | State   | KANSAS      | GROUND LEVEL                              |                           | K.B. 2020      |
|                              |               |         |             | Log Measured From KELLY BUSHING 8' A.G.L. |                           | D.F. 2018      |
|                              |               |         |             | Drilling Measured From KELLY BUSHING      |                           | G.L. 2012      |
| Date                         | 7/25/09       |         |             |                                           |                           |                |
| Run Number                   | ONE           |         |             |                                           |                           |                |
| Depth Driller                | 3982'         |         |             |                                           |                           |                |
| Depth Logger                 | 3981'         |         |             |                                           |                           |                |
| Bottom Logged Interval       | 3979'         |         |             |                                           |                           |                |
| Top Log Interval             | 0'            |         |             |                                           |                           |                |
| Casing Driller               | 8 5/8" @ 653' |         |             |                                           |                           |                |
| Casing Logger                | 652'          |         |             |                                           |                           |                |
| Bit Size                     | 7 7/8         |         |             |                                           |                           |                |
| Type Fluid in Hole           | CHEMICAL MUD  |         |             |                                           |                           |                |
| Density / Viscosity          | 8.7 / 63      |         |             | CHLORIDES 5,100                           |                           |                |
| pH / Fluid Loss              | 10.0 / 8.8    |         |             |                                           |                           |                |
| Source of Sample             | FLOWLINE      |         |             |                                           |                           |                |
| Rim @ Meas. Temp             | 0.65 @ 90F    |         |             |                                           |                           |                |
| Rmf @ Meas. Temp             | 0.49 @ 90F    |         |             |                                           |                           |                |
| Rmc @ Meas. Temp             | 0.78 @ 90F    |         |             |                                           |                           |                |
| Source of Rmf / Rmc          | CAL/CAL       |         |             |                                           |                           |                |
| Rim @ BHT                    | 0.50 @ 116F   |         |             |                                           |                           |                |
| Time Circulation Stopped     | 2 HOURS       |         |             |                                           |                           |                |
| Time Logger on Bottom        |               |         |             |                                           |                           |                |
| Maximum Recorded Temperature | 116F          |         |             |                                           |                           |                |
| Equipment Number             | 680           |         |             |                                           |                           |                |
| Location                     | HAYS, KS      |         |             |                                           |                           |                |
| Recorded By                  | JEFF GRONEWEG |         |             |                                           |                           |                |
| Witnessed By                 | HERB DEINES   |         |             | VINCE WERTH                               |                           |                |

<<< Fold Here >>>

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**

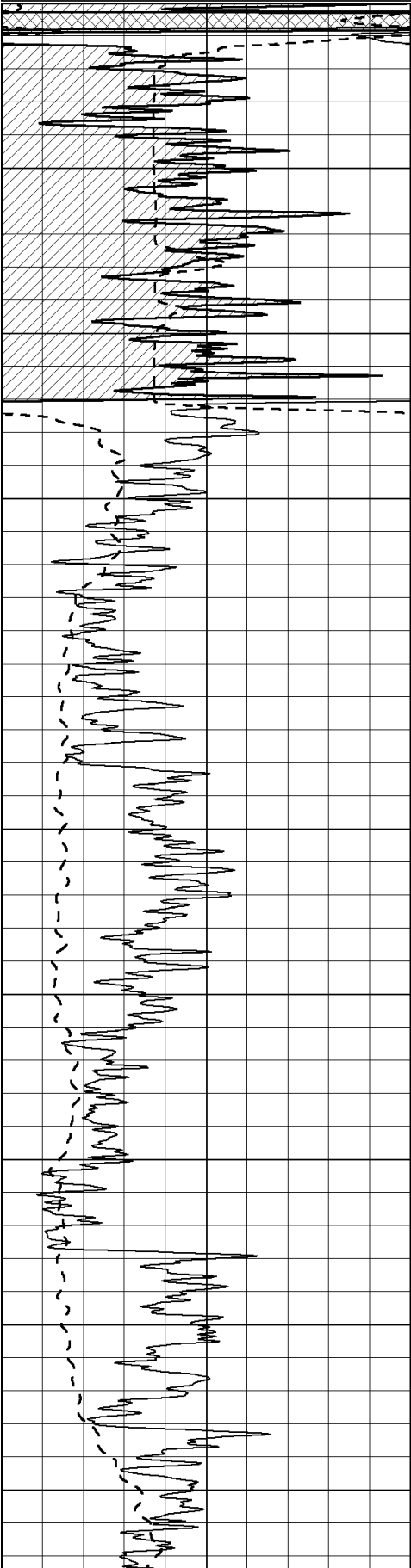
THANK YOU FOR USING SUPERIOR WELL SERVICES  
HAYS, KS. 785-628-6395

DIRECTIONS: TOULON ELEVATOR - 2 MILES EAST - 1/2 MILE NORTH  
EAST INTO

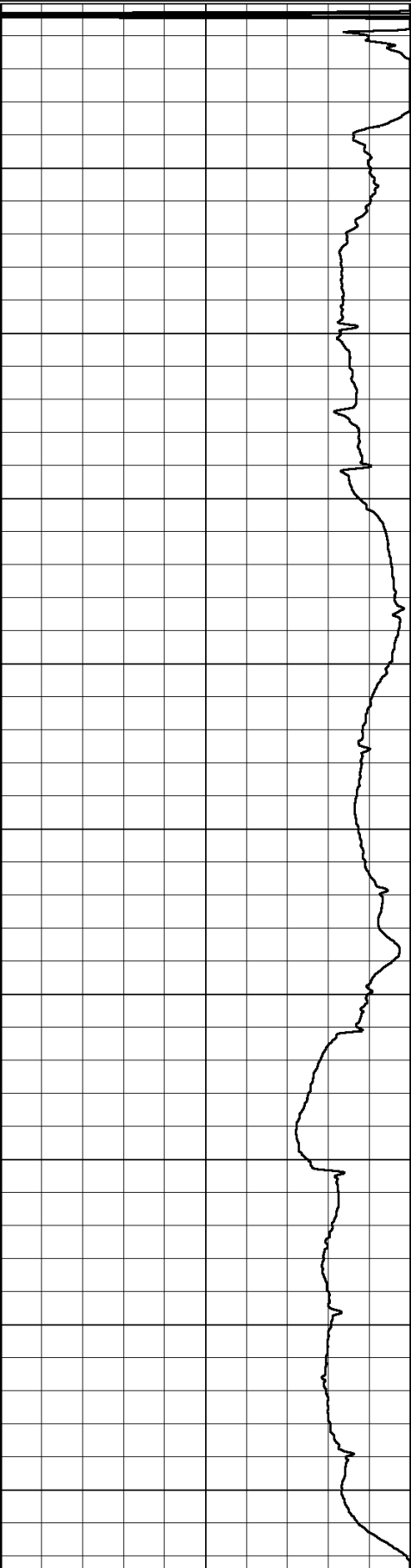
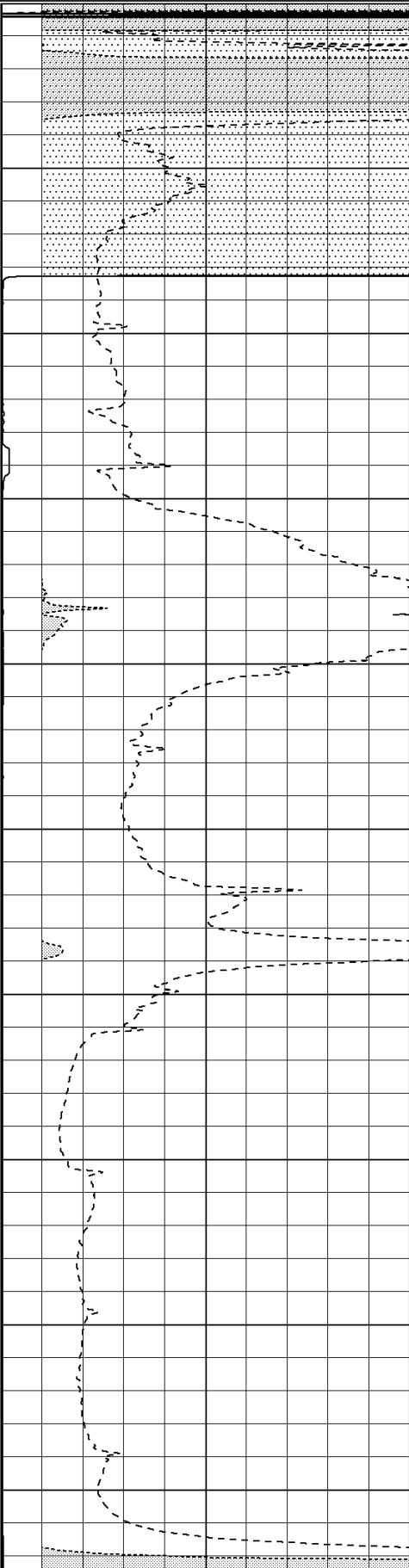
|      |                  |     |
|------|------------------|-----|
| 0    | Gamma Ray (GAPI) | 150 |
| -100 | SP (mV)          | 100 |

|   |                        |    |
|---|------------------------|----|
| 0 | RLL3 (Ohm-m)           | 50 |
| 0 | Deep Induction (Ohm-m) | 50 |

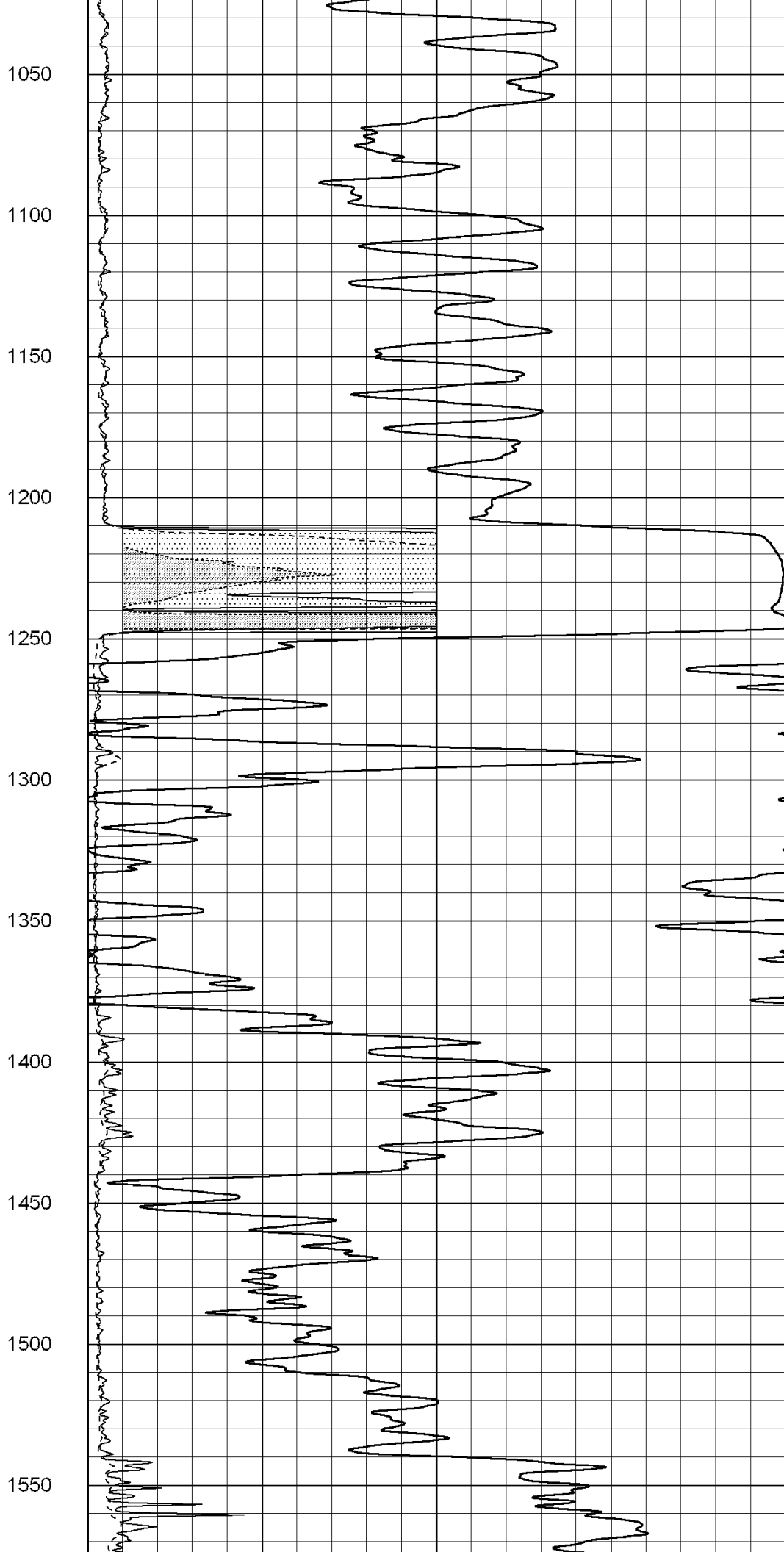
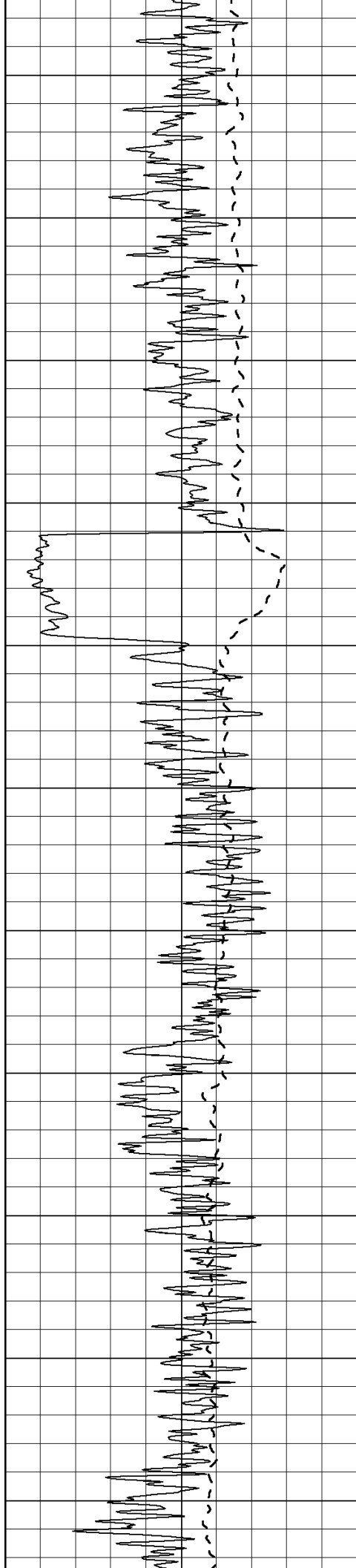
|      |                  |     |
|------|------------------|-----|
| 1000 | CILD (mmho/m)    | 0   |
| 50   | RILD X10 (Ohm-m) | 500 |
| 50   | RLL3 X10 (Ohm-m) | 500 |

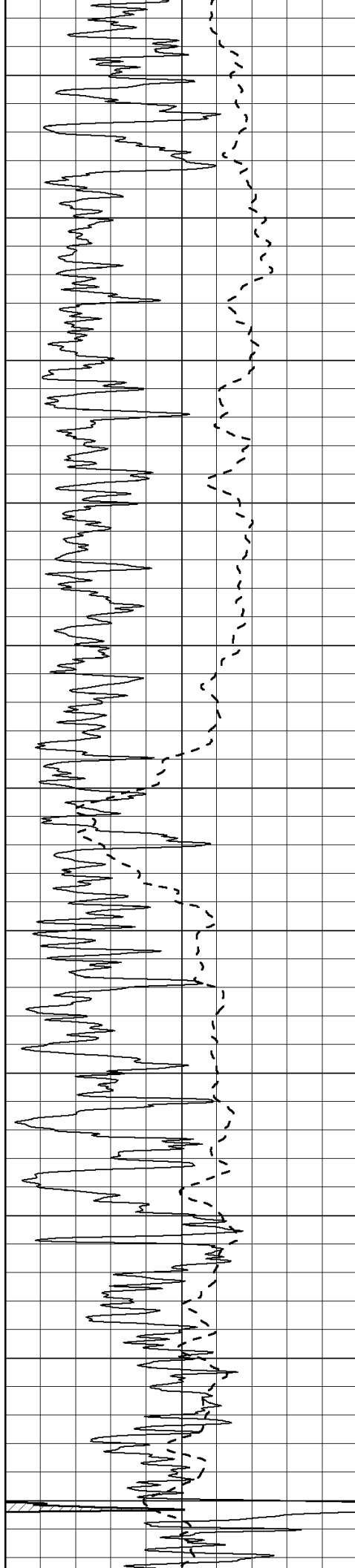


0  
50  
100  
150  
200  
250  
300  
350  
400  
450









1600

1650

1700

1750

1800

1850

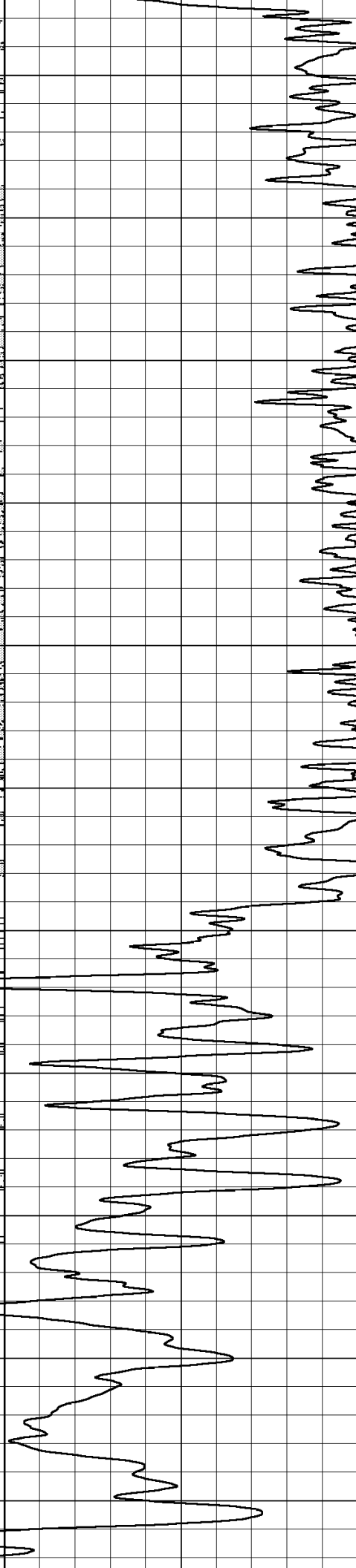
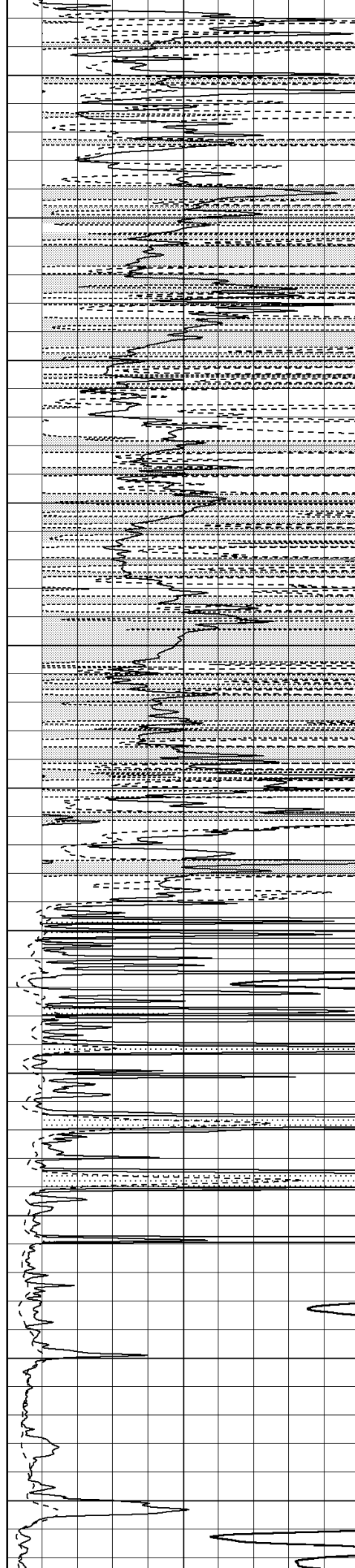
1900

1950

2000

2050

2100



2150

2200

2250

2300

2350

2400

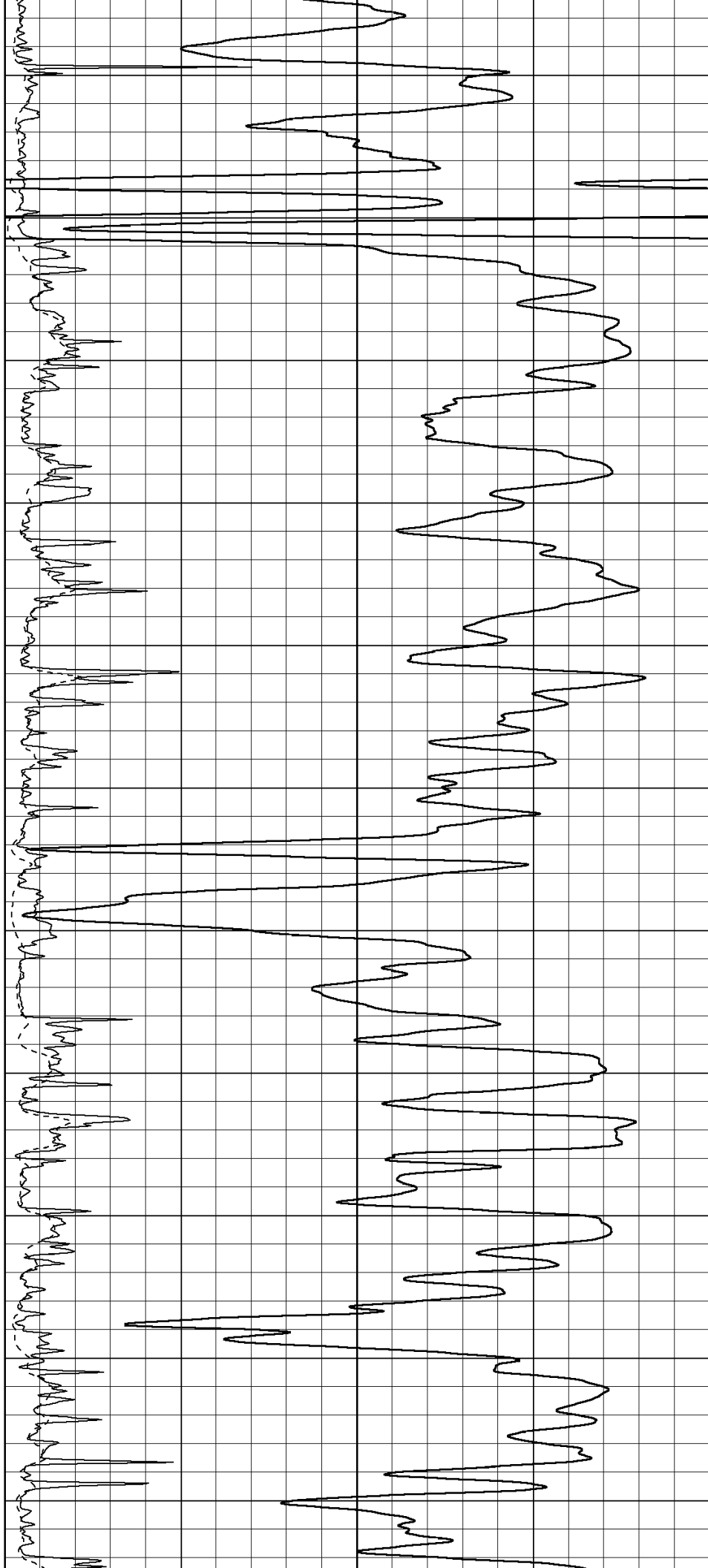
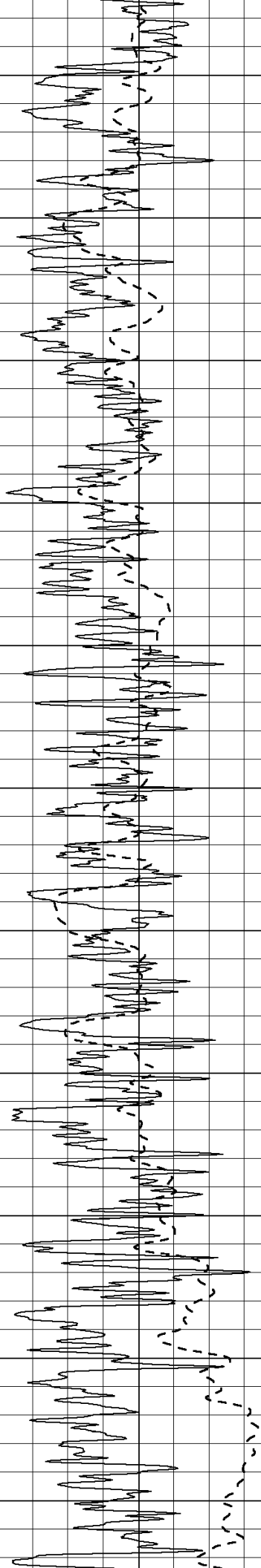
2450

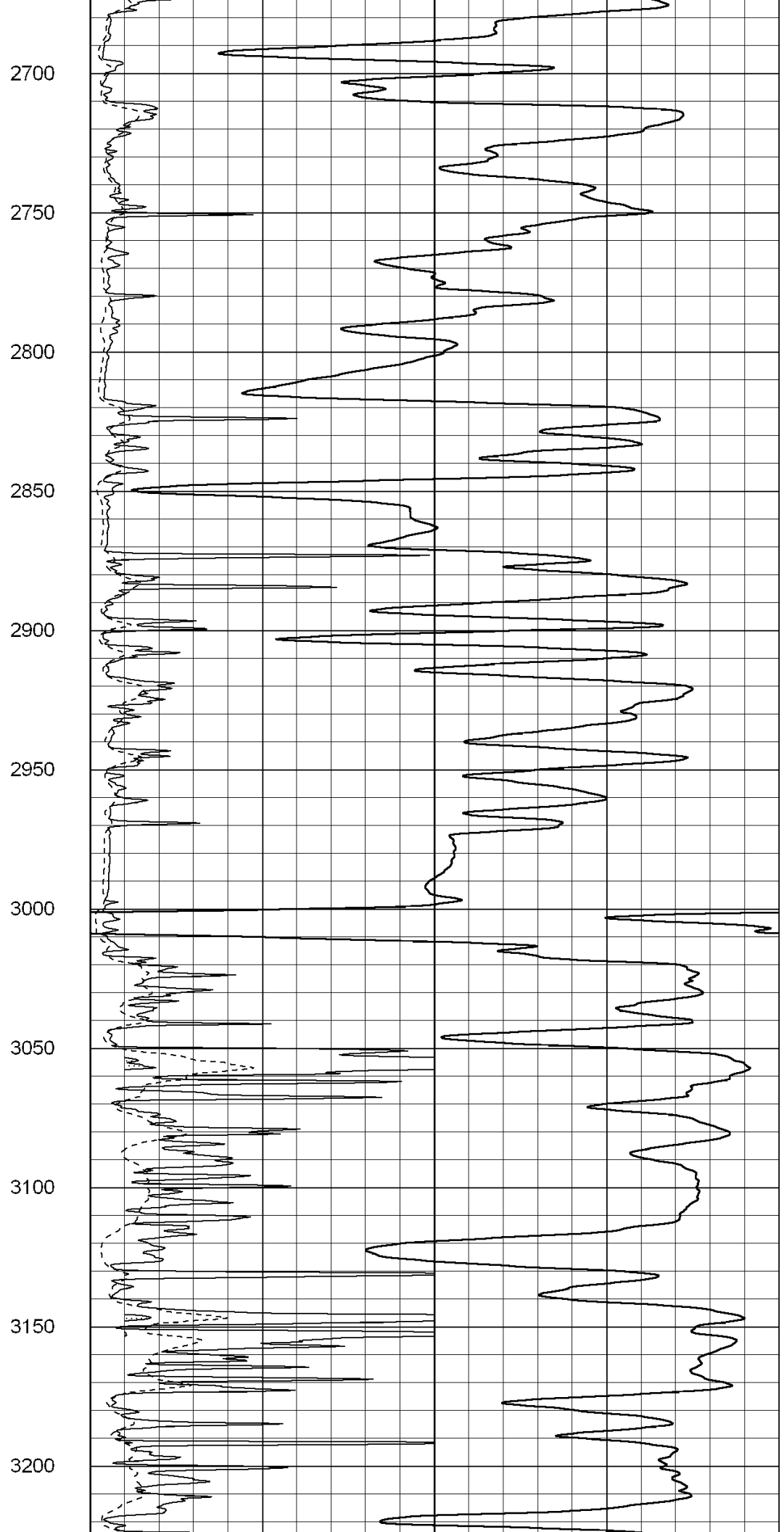
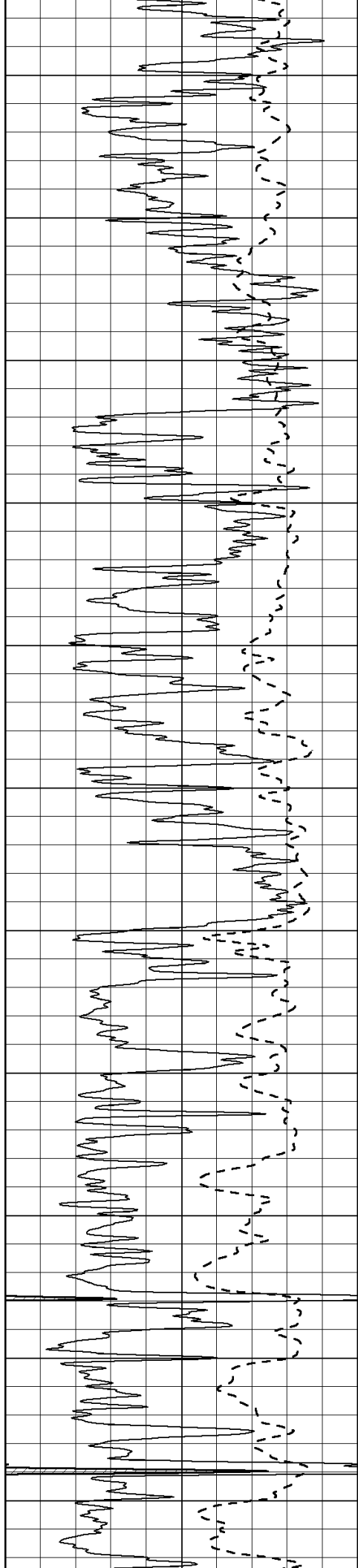
2500

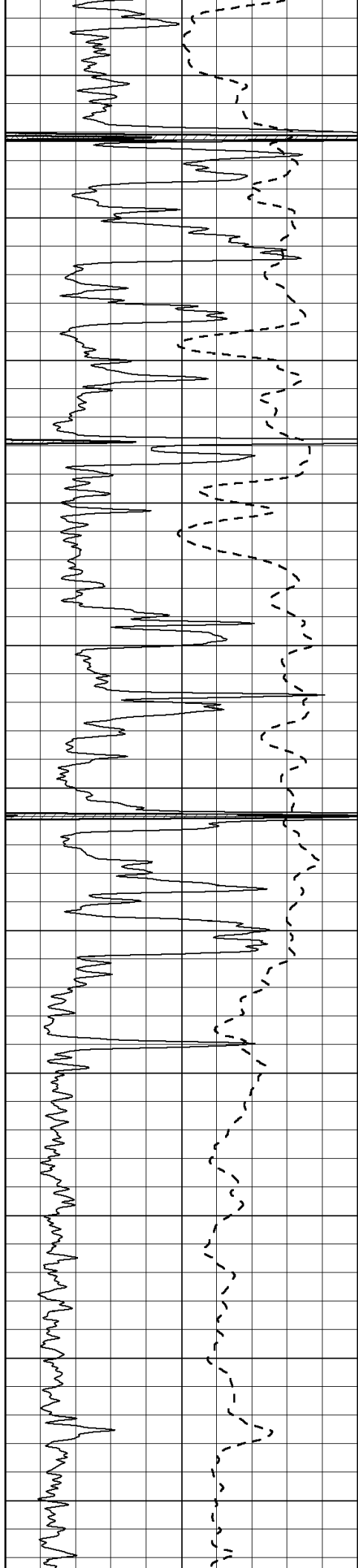
2550

2600

2650







3250

3300

3350

3400

3450

3500

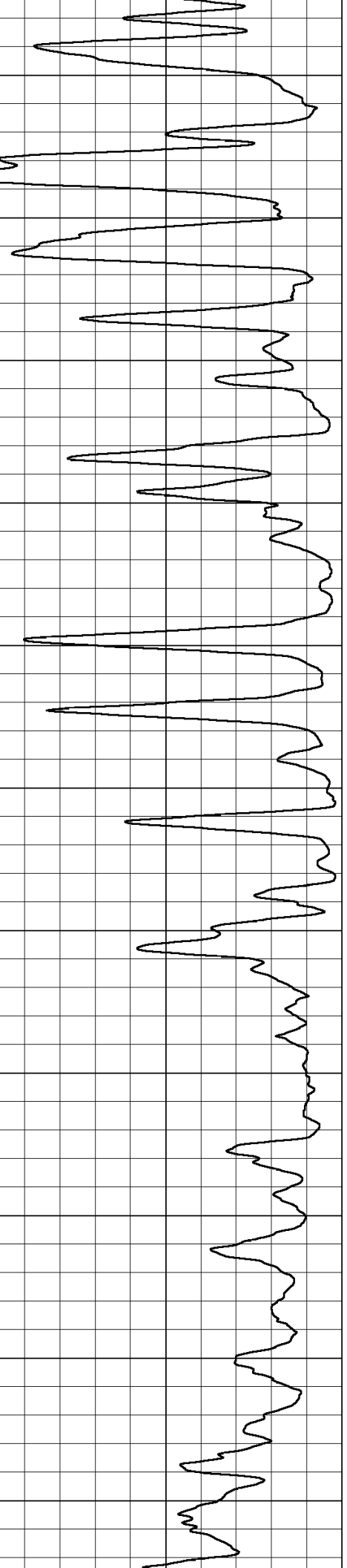
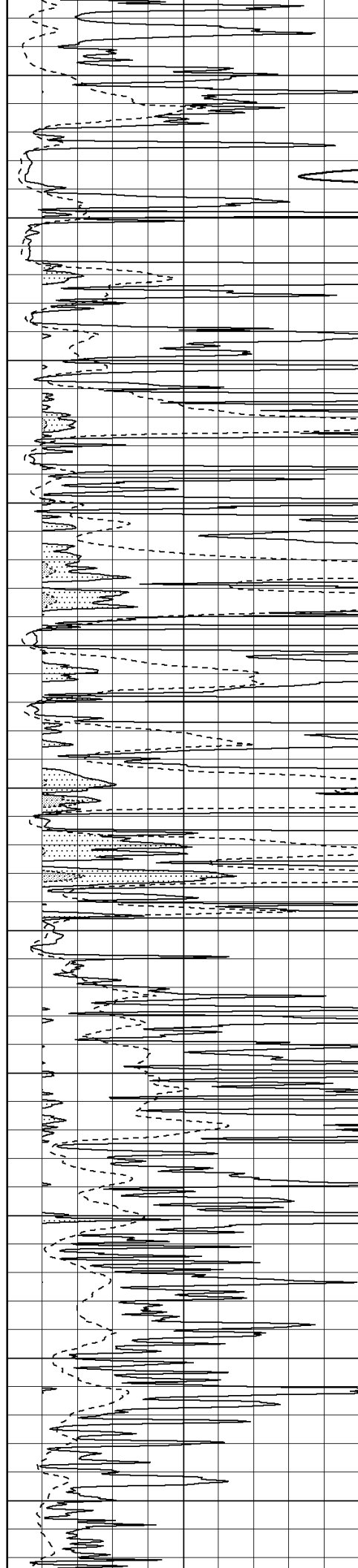
3550

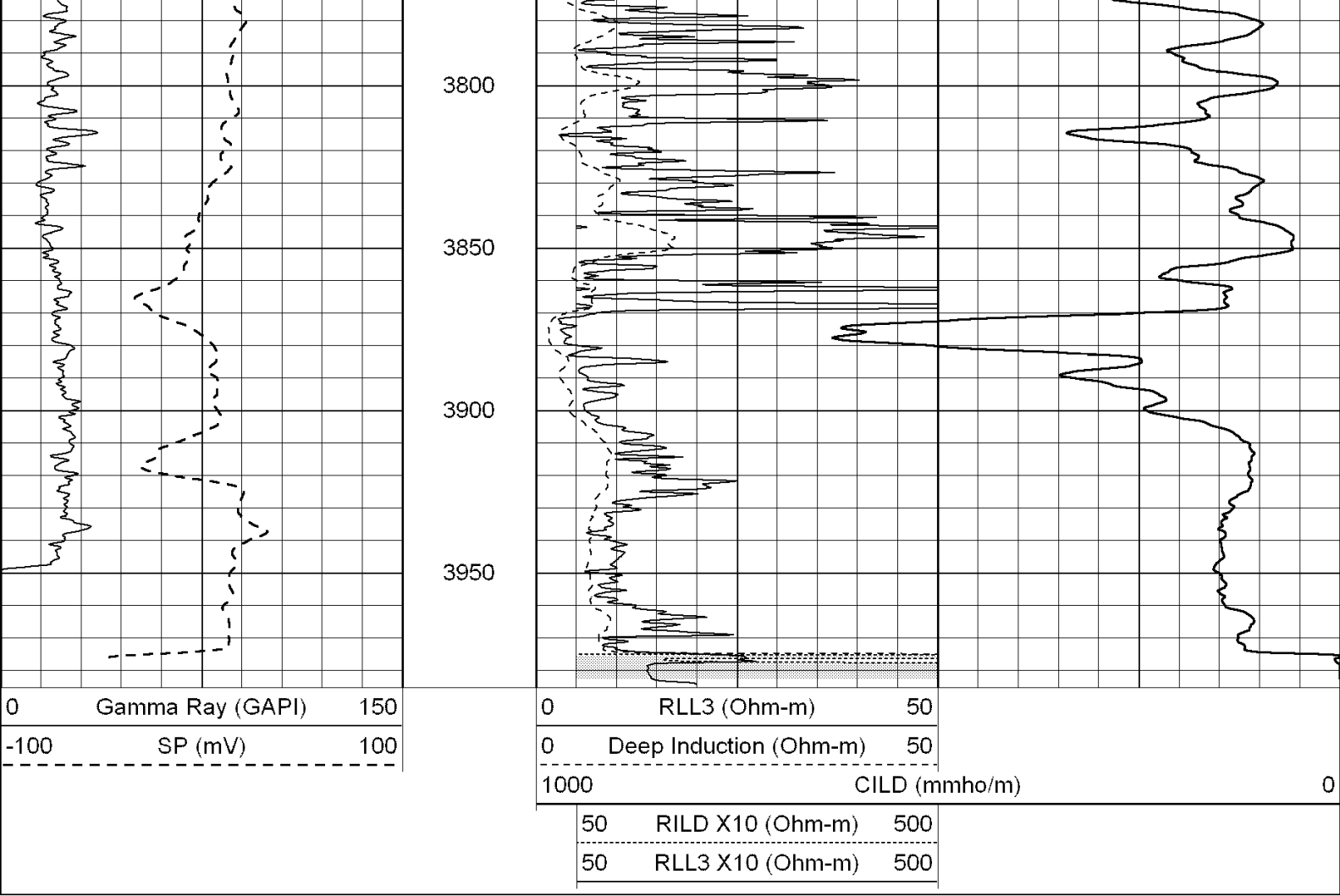
3600

3650

3700

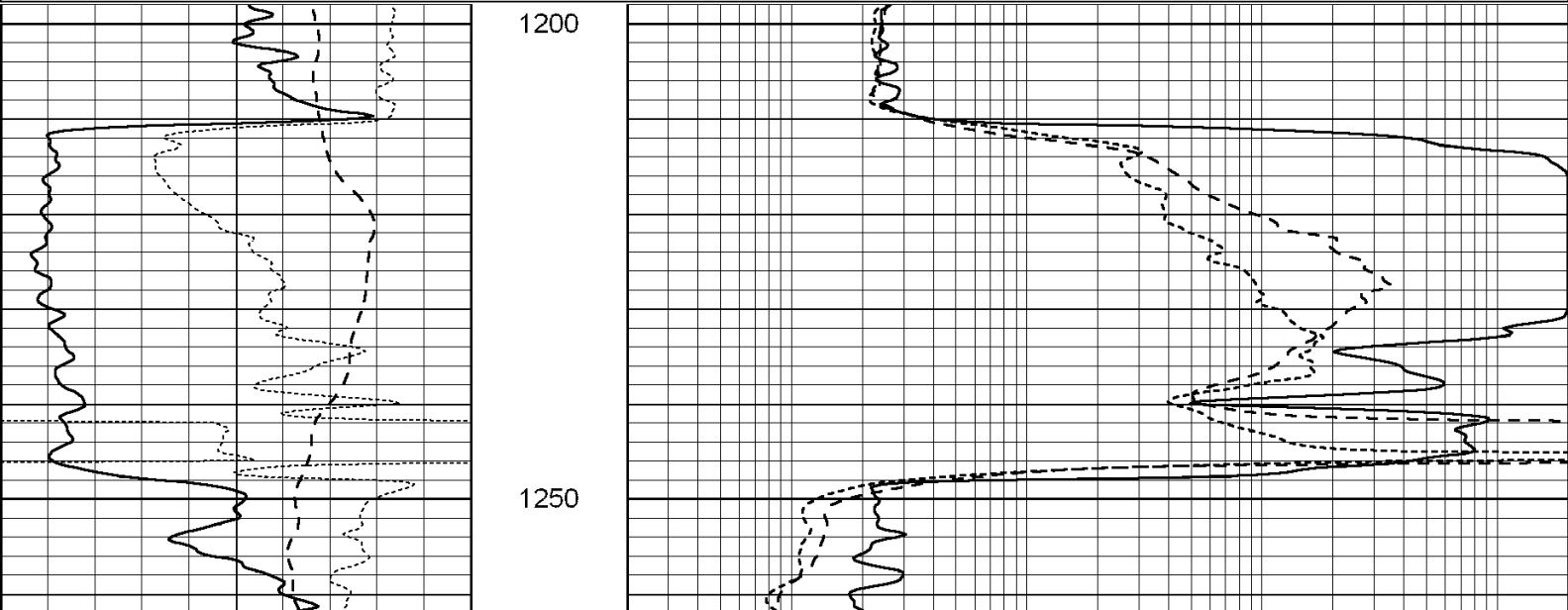
3750

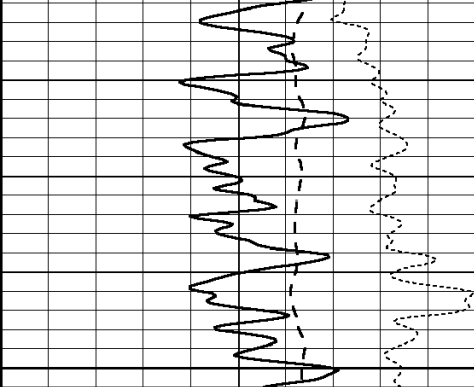




Database File: 004082ddn.db  
Dataset Pathname: pass3.3  
Presentation Format: \_dil  
Dataset Creation: Sat Jul 25 17:27:02 2009 by Calc Open-Cased 090629  
Charted by: Depth in Feet scaled 1:240

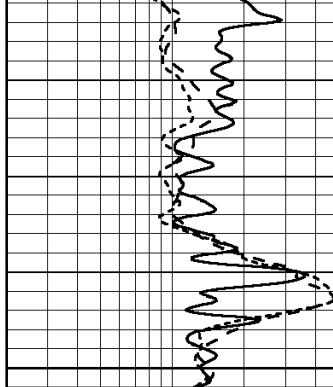
|      |                  |     |     |                          |      |
|------|------------------|-----|-----|--------------------------|------|
| 0    | GAMMA RAY (GAPI) | 150 | 0.2 | SHALLOW GUARD (Ohm-m)    | 2000 |
| -100 | SP (mV)          | 100 | 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |
| -250 | Rxo/Rt           | 50  | 0.2 | DEEP INDUCTION (Ohm-m)   | 2000 |





|      |                  |     |
|------|------------------|-----|
| 0    | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV)          | 100 |
| -250 | Rxo/Rt           | 50  |

1300

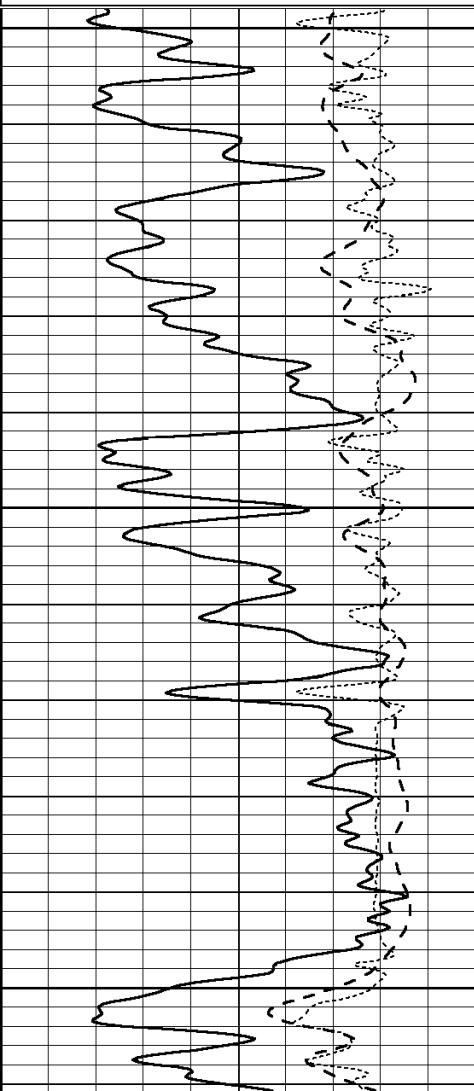


|     |                          |      |
|-----|--------------------------|------|
| 0.2 | SHALLOW GUARD (Ohm-m)    | 2000 |
| 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |
| 0.2 | DEEP INDUCTION (Ohm-m)   | 2000 |

Database File: 004082ddn.db  
 Dataset Pathname: pass3.2  
 Presentation Format: \_dil  
 Dataset Creation: Sat Jul 25 16:37:53 2009 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

|      |                  |     |
|------|------------------|-----|
| 0    | GAMMA RAY (GAPI) | 150 |
| -100 | SP (mV)          | 100 |
| -250 | Rxo/Rt           | 50  |

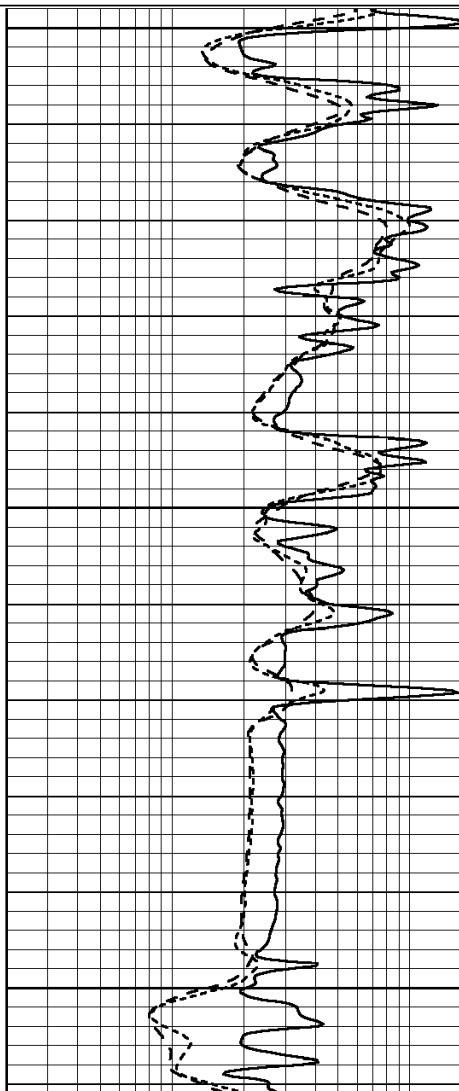
|     |                          |      |
|-----|--------------------------|------|
| 0.2 | SHALLOW GUARD (Ohm-m)    | 2000 |
| 0.2 | MEDIUM INDUCTION (Ohm-m) | 2000 |
| 0.2 | DEEP INDUCTION (Ohm-m)   | 2000 |

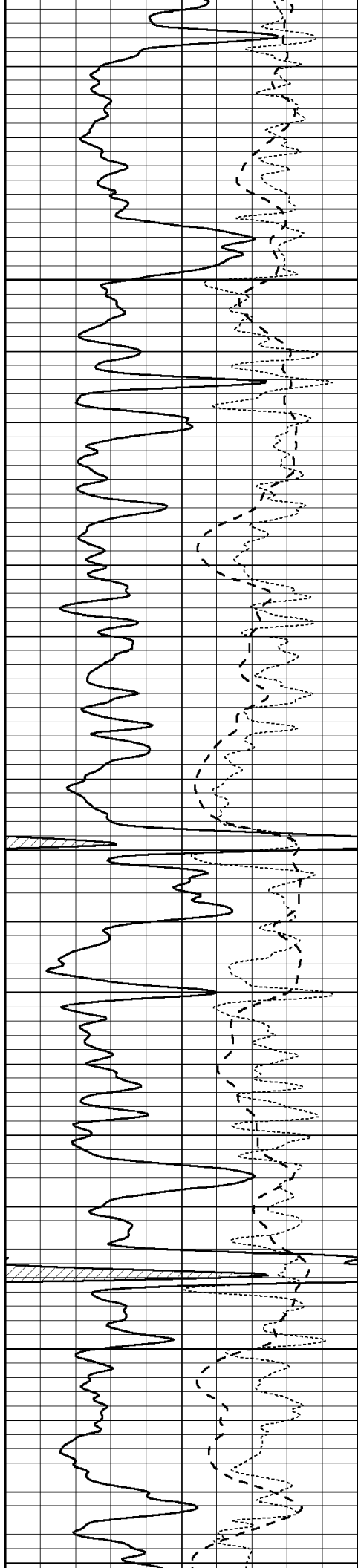


2900

2950

3000



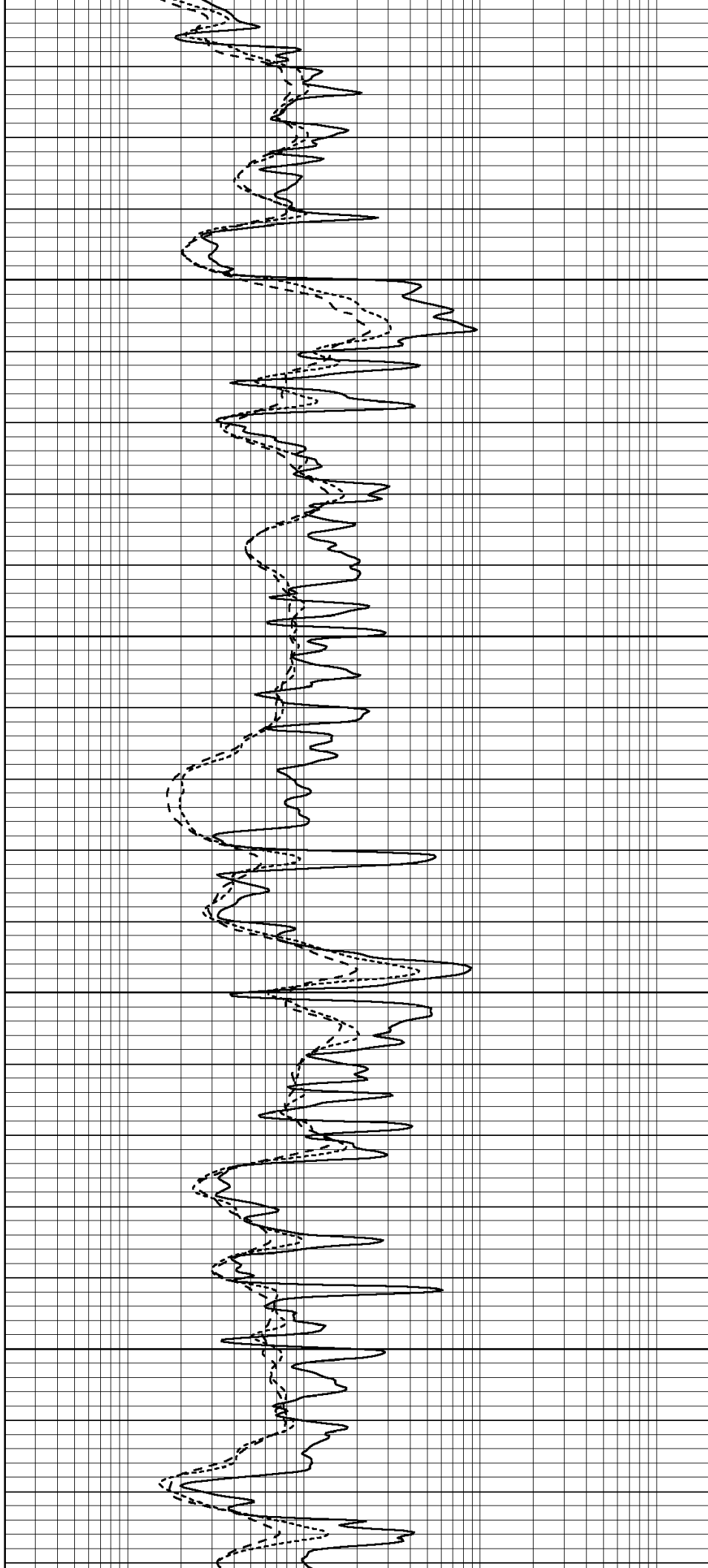


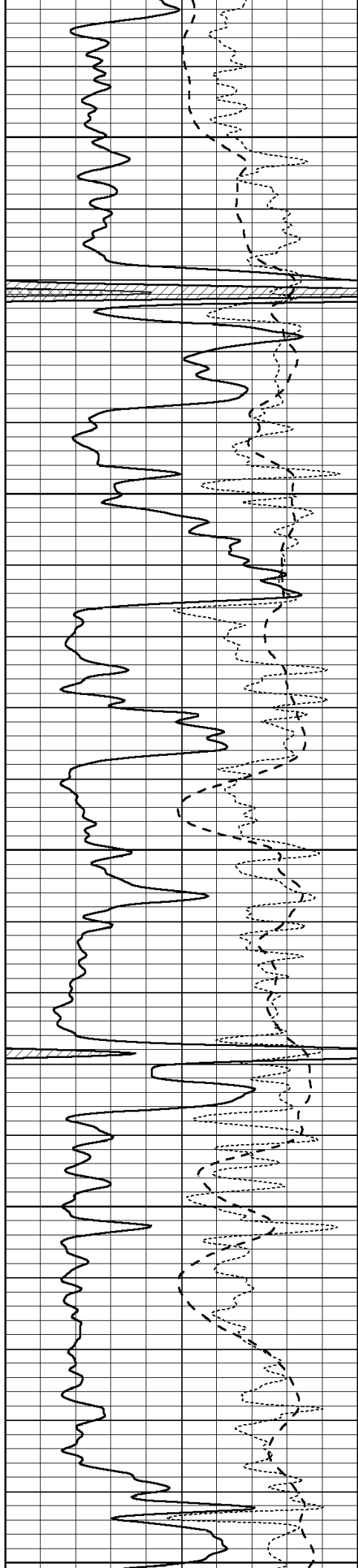
3050

3100

3150

3200





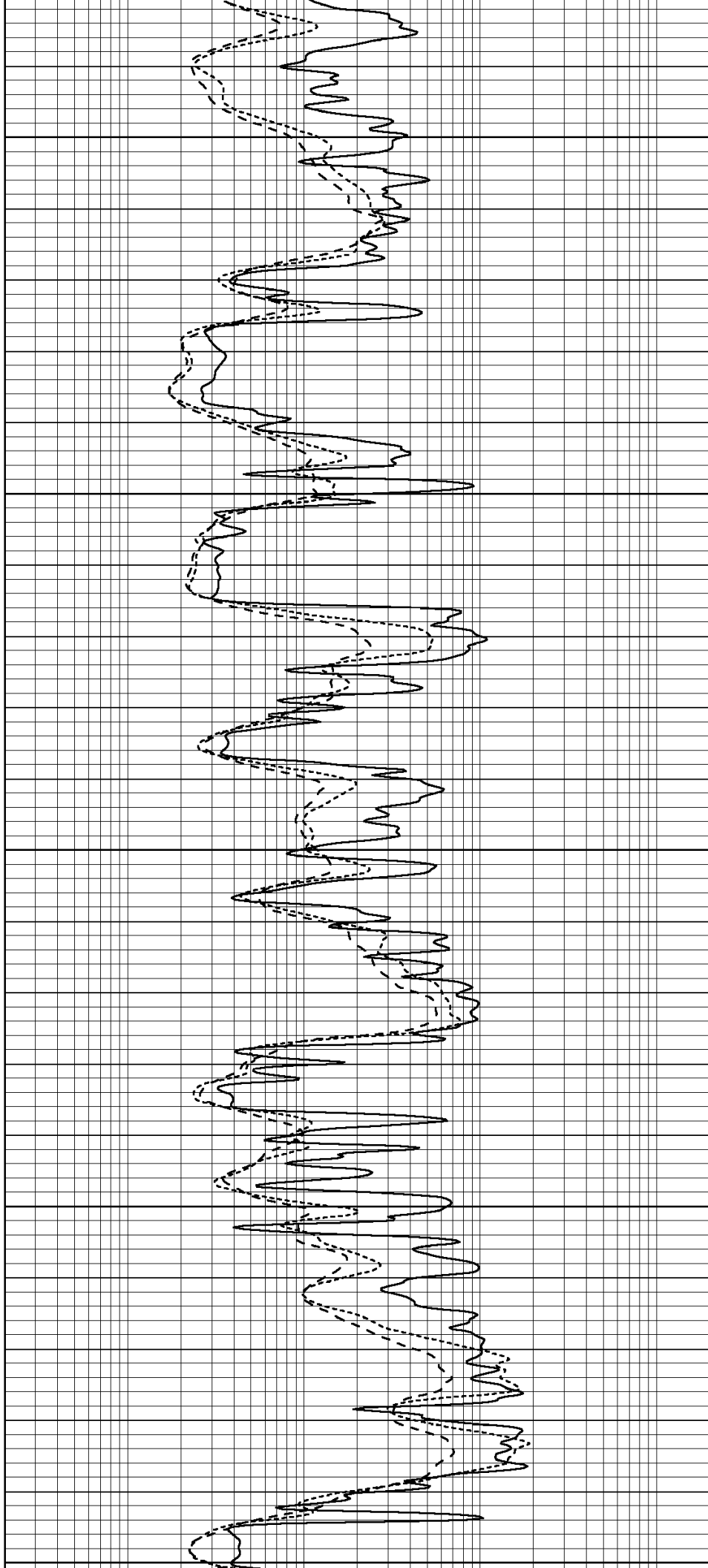
3250

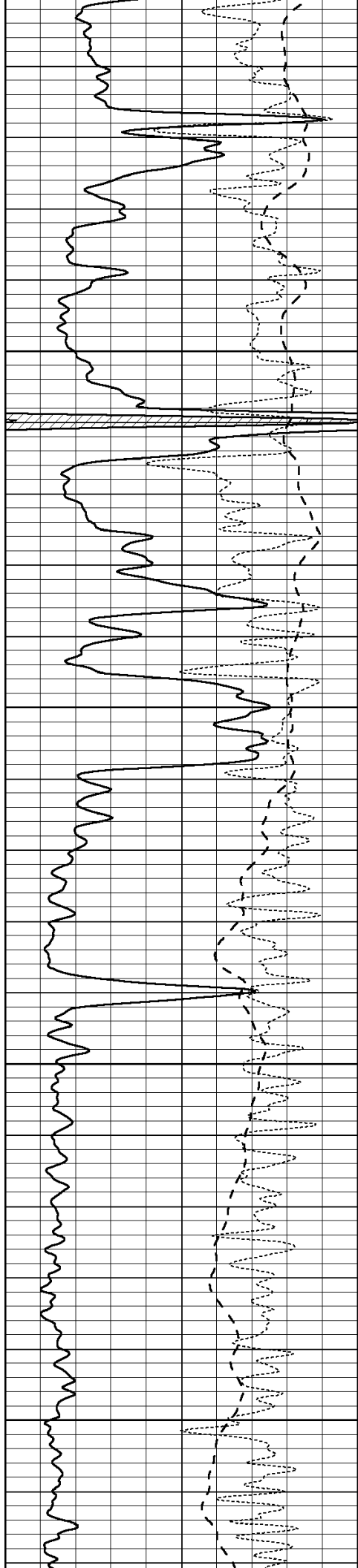
3300

3350

3400

3450





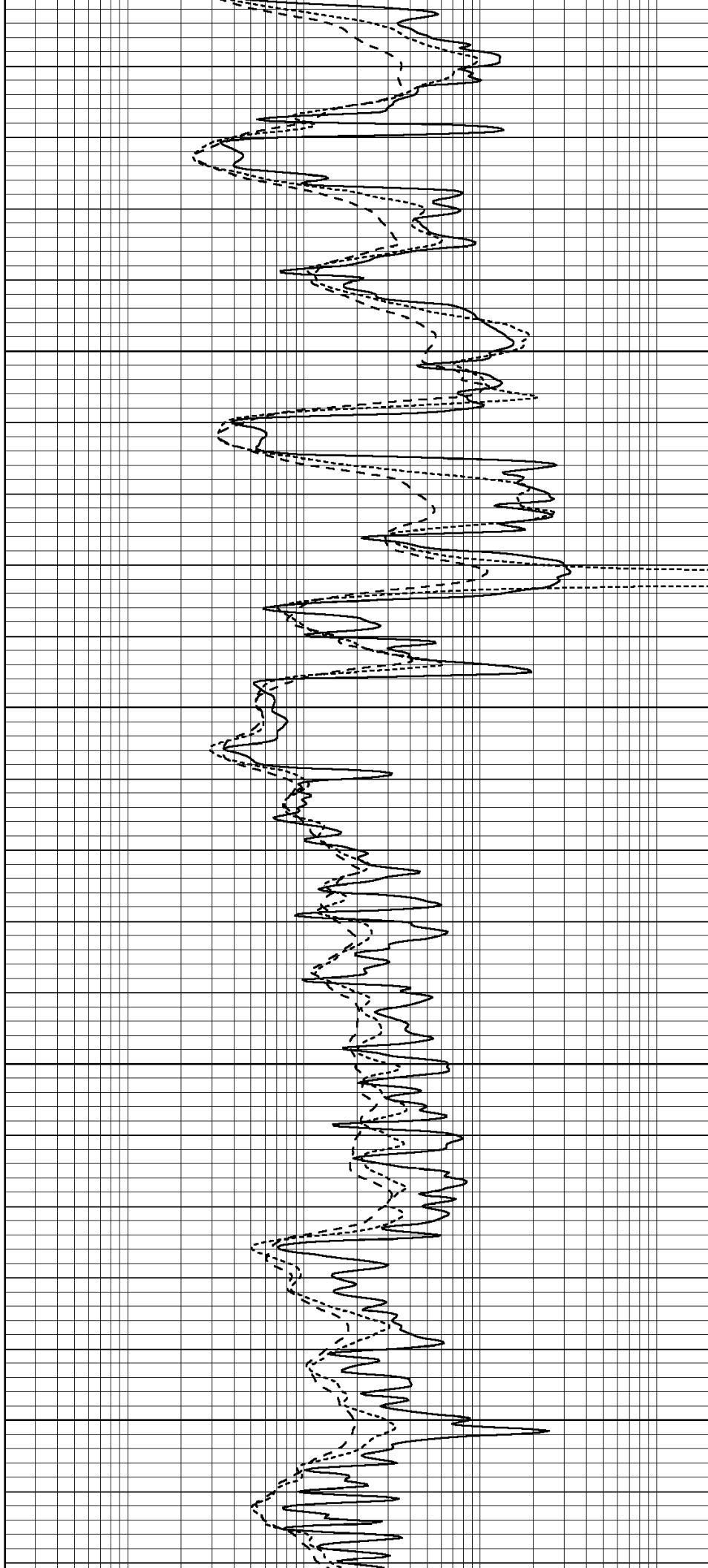
3450

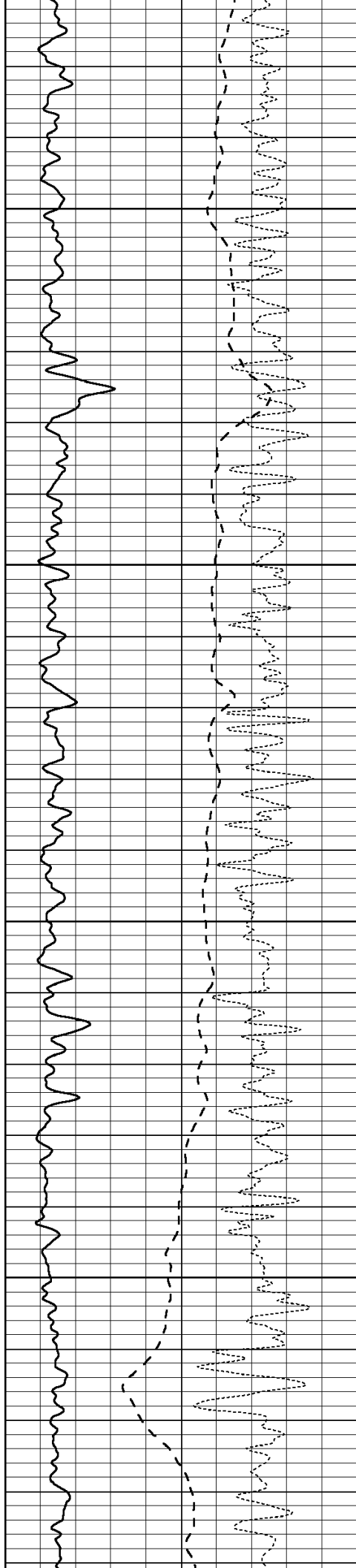
3500

3550

3600

3650



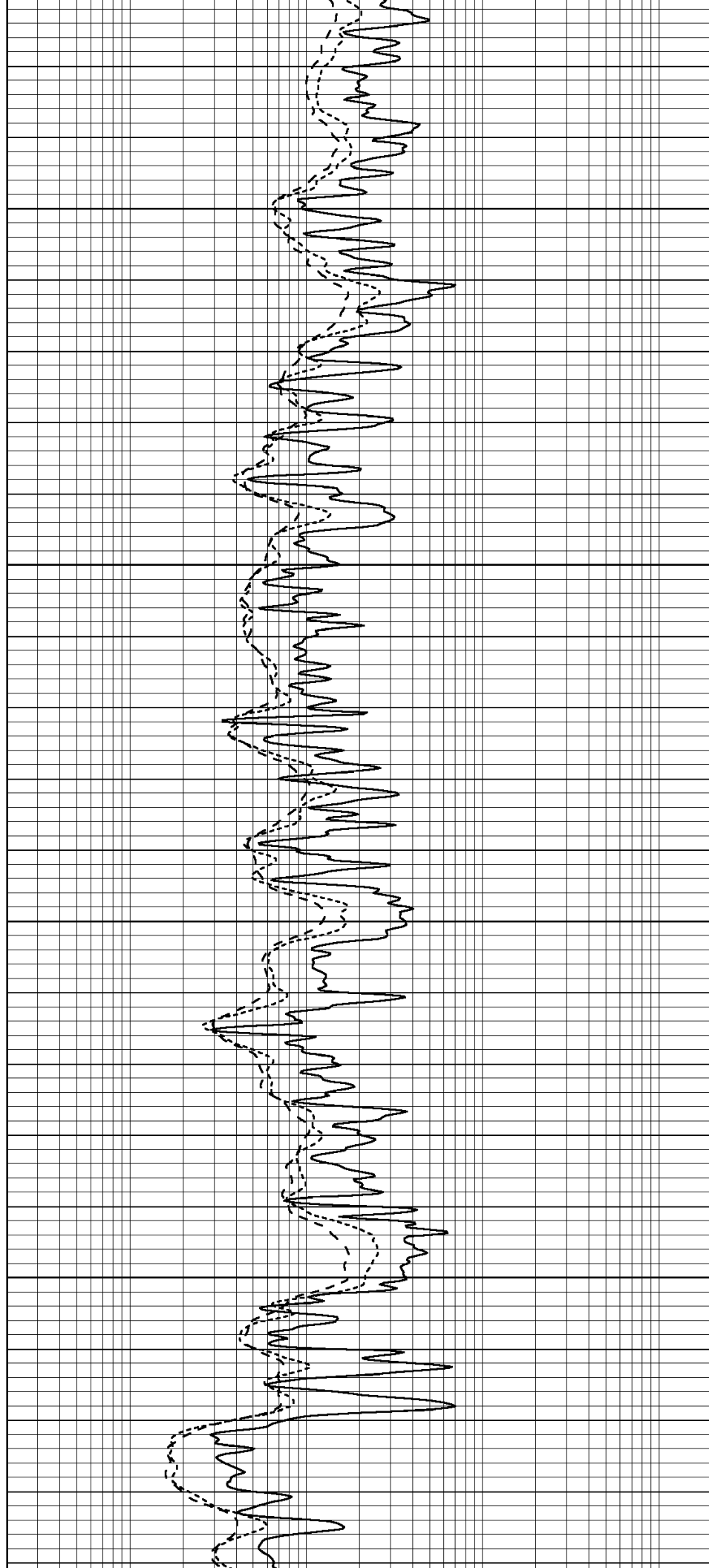


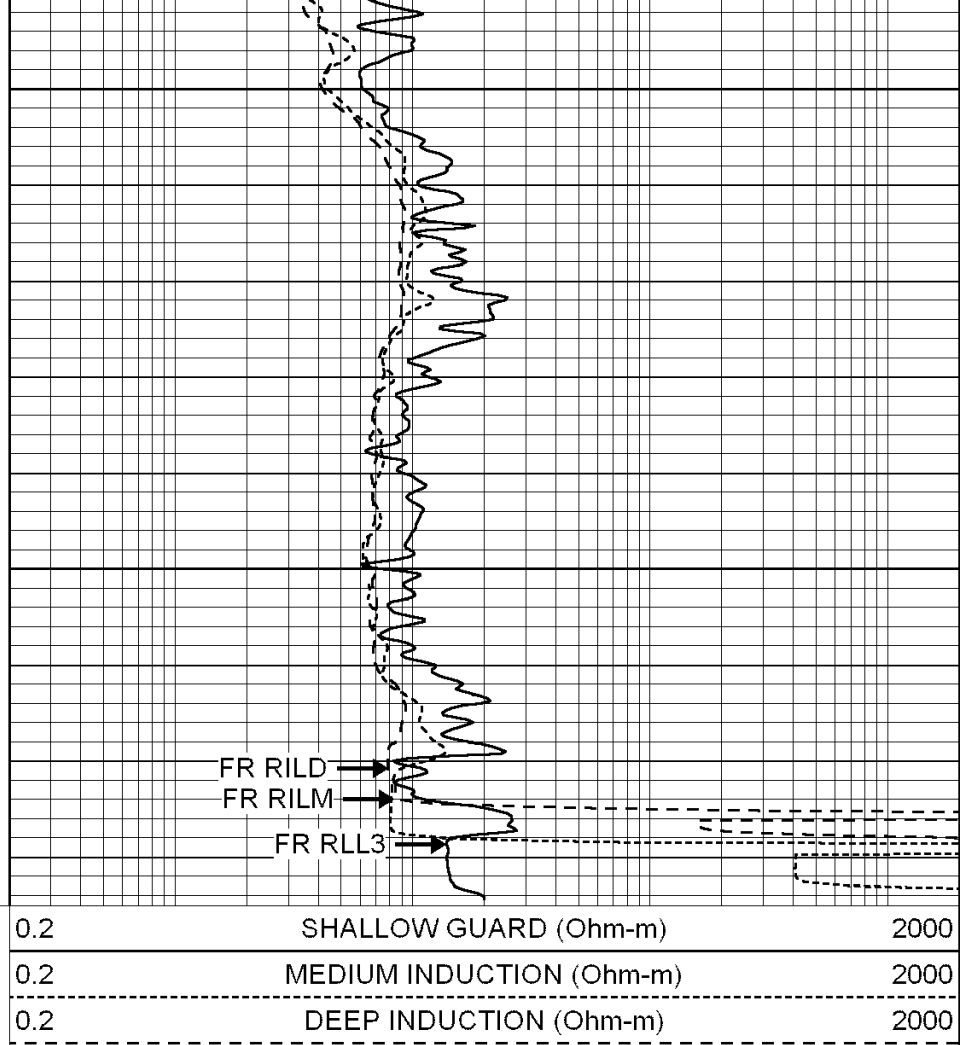
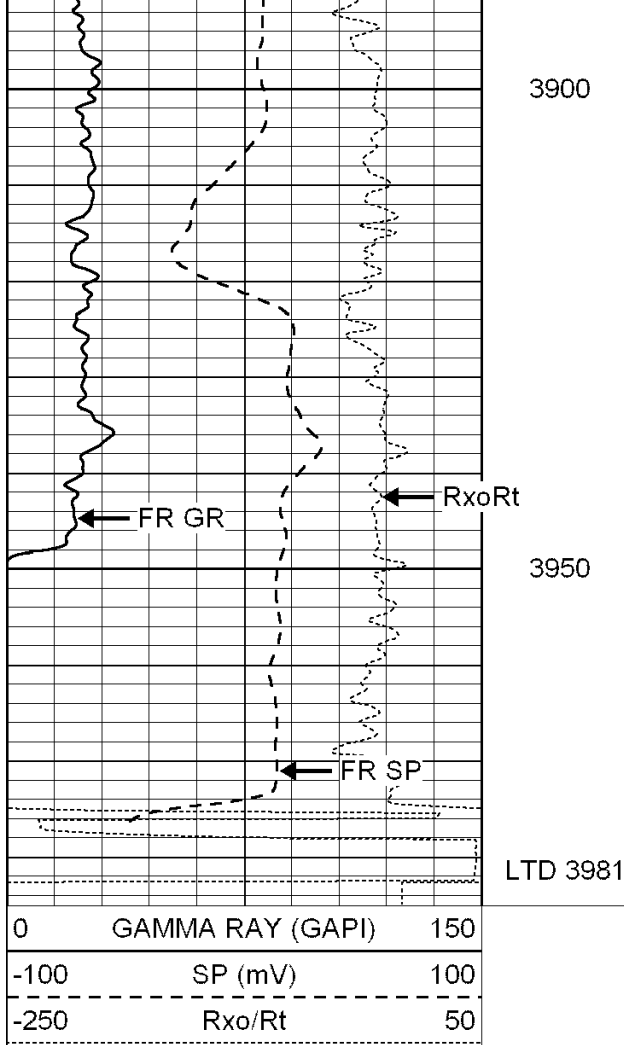
3700

3750

3800

3850

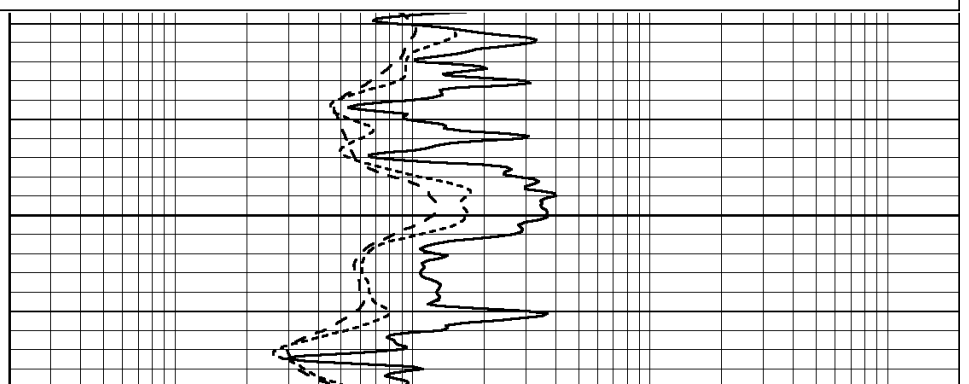
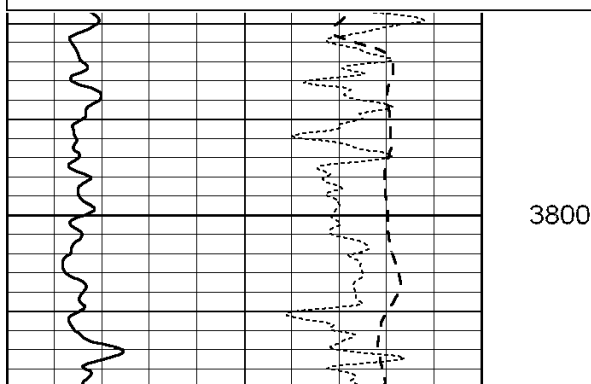
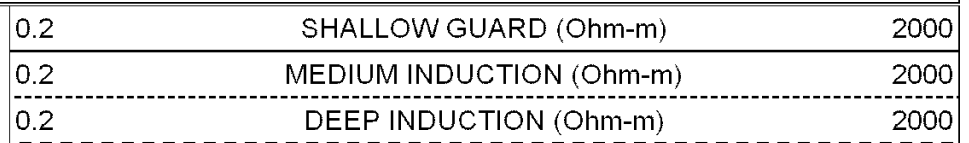
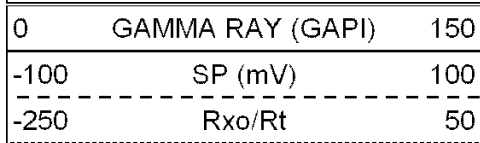


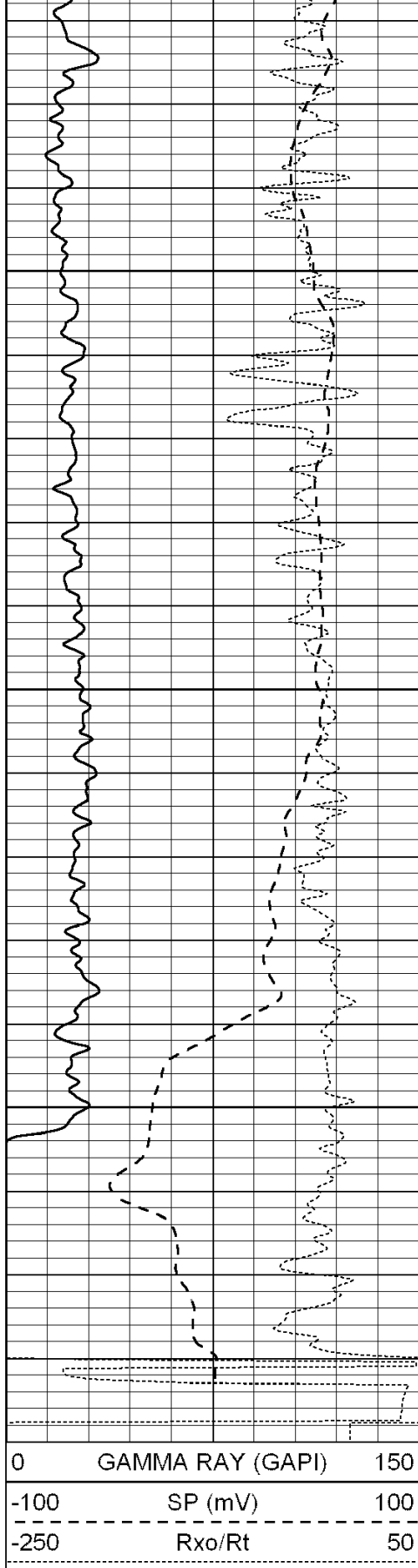


SUPERIOR  
Hays,  
Kansas

# REPEAT SECTION

Database File: 004082ddn.db  
 Dataset Pathname: pass2.1  
 Presentation Format: \_dil  
 Dataset Creation: Sat Jul 25 16:24:32 2009 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

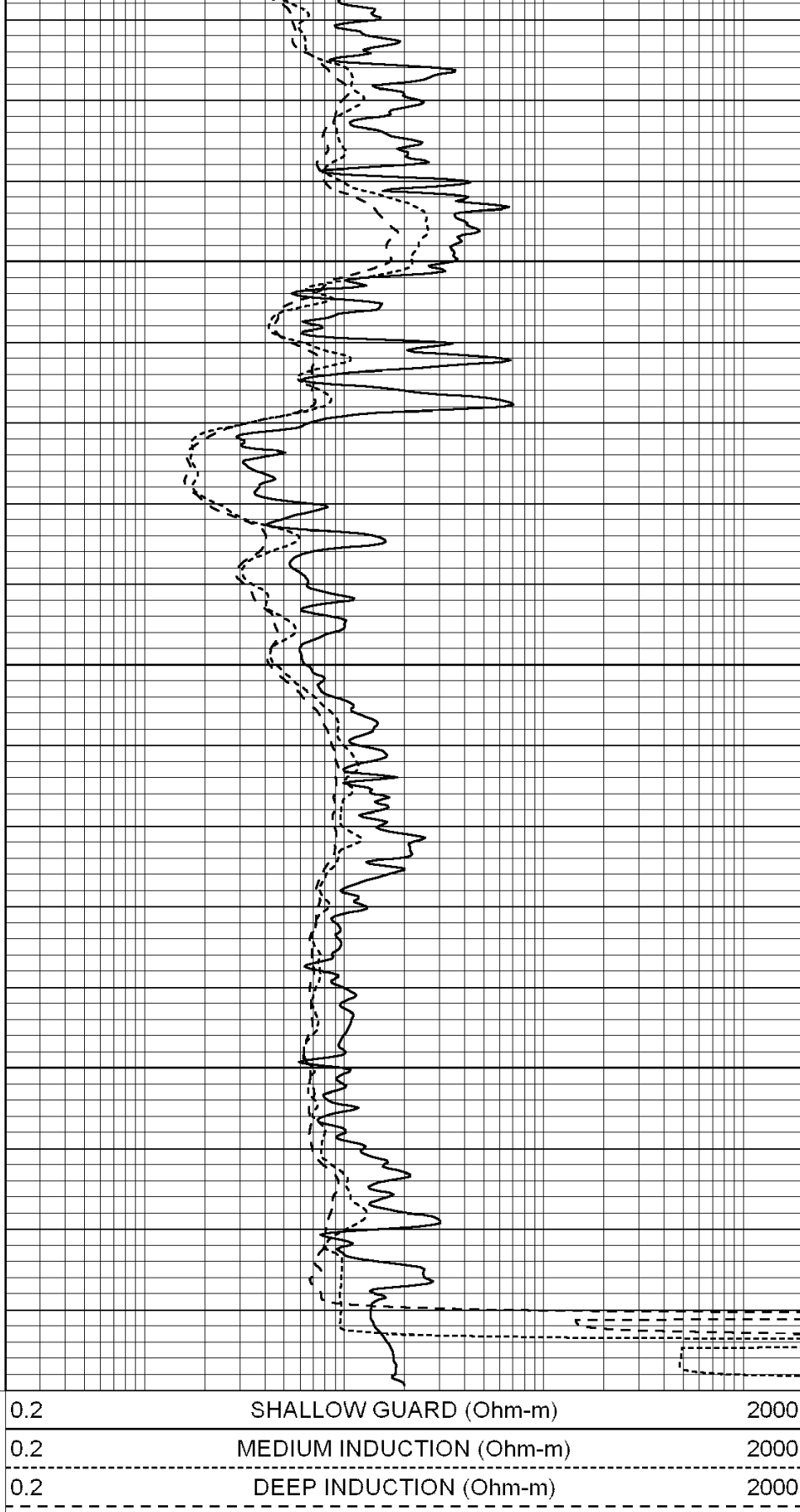




3850

3900

3950



### Calibration Report

Database File: 004082ddn.db  
Dataset Pathname: pass3.3  
Dataset Creation: Sat Jul 25 17:27:02 2009 by Calc Open-Cased 090629

Serial-Model:  
Surface Cal Performed:  
Downhole Cal Performed:  
After Survey Verification Performed:

PROBE8-DILG  
Fri Aug 01 06:33:19 2008  
Mon Jul 28 11:08:27 2008  
Mon Jul 28 11:08:27 2008

Surface Calibration

| Readings  |       |       |   | References |         |        | Results |         |
|-----------|-------|-------|---|------------|---------|--------|---------|---------|
| Loop:     | Air   | Loop  |   | Air        | Loop    |        | m       | b       |
| Deep      | 0.015 | 0.648 | V | 0.000      | 400.000 | mmho/m | 632.616 | -9.730  |
| Medium    | 0.029 | 0.796 | V | 0.000      | 464.000 | mmho/m | 605.049 | -17.680 |
| Internal: | Zero  | Cal   |   | Zero       | Cal     |        | m       | b       |
| Deep      | 0.017 | 0.657 | V | 0.000      | 400.000 | mmho/m | 625.153 | -10.619 |
| Medium    | 0.016 | 0.757 | V | 0.000      | 464.000 | mmho/m | 625.992 | -9.739  |

Downhole Calibration

| Readings |       |        |        | References |          |        | Results |       |
|----------|-------|--------|--------|------------|----------|--------|---------|-------|
|          | Zero  | Cal    |        | Zero       | Cal      |        | m'      | b'    |
| Deep     | 0.000 | 0.000  | mmho/m | 2.011      | 405.777  | mmho/m | 1.000   | 0.000 |
| Medium   | 0.000 | 0.000  | mmho/m | 7.590      | 503.393  | mmho/m | 1.000   | 0.000 |
| LL3      |       | 7.500  | V      |            | 1500.000 | Ohm-m  |         |       |
|          |       | 0.000  | V      |            | 20.000   | Ohm-m  |         |       |
|          |       | -6.500 | V      |            | 3800.000 | mmho-m |         |       |

After Survey Verification

| Readings |       |       |        | Targets |       |        | Results |       |
|----------|-------|-------|--------|---------|-------|--------|---------|-------|
|          | Zero  | Cal   |        | Zero    | Cal   |        | m'      | b'    |
| Deep     | 0.000 | 0.000 | mmho/m | 0.000   | 0.000 | mmho/m | 0.000   | 0.000 |
| Medium   | 0.000 | 0.000 | mmho/m | 0.000   | 0.000 | mmho/m | 0.000   | 0.000 |
| LL3      |       | 1.000 | Ohm-m  |         | 1.000 | Ohm-m  |         |       |
|          |       | 0.000 | Ohm-m  |         | 0.000 | Ohm-m  |         |       |
|          |       | 1.000 | mmho-m |         | 1.000 | mmho-m |         |       |

Compensated Density Calibration Report

Serial-Model:  
Source / Verifier:  
Master Calibration Performed:

GEAR3-GEARHART  
143 / 143  
Fri Mar 06 10:44:04 2009

Master Calibration

| Density             |       |      | Far Detector                | Near Detector |     |
|---------------------|-------|------|-----------------------------|---------------|-----|
| Magnesium           | 1.710 | g/cc | 1127.25                     | 444.45        | cps |
| Aluminum            | 2.600 | g/cc | 260.89                      | 307.54        | cps |
| Spine Angle = 75.88 |       |      | Density/Spine Ratio = 0.590 |               |     |
| Size                |       |      | Reading                     |               |     |
| Small Ring          | 8.00  | in   | 4.19                        | V             |     |
| Large Ring          | 14.00 | in   | 6.17                        | V             |     |

Compensated Neutron Calibration Report

Serial Number:  
Tool Model:

6I  
G

CALIBRATION

| Detector | Readings | Target | Normalization |
|----------|----------|--------|---------------|
|----------|----------|--------|---------------|

| Detect:     | Readings | Target   | Normalization |
|-------------|----------|----------|---------------|
| Short Space | 1.00 cps | 1.00 cps | 1.0000        |
| Long Space  | 1.00 cps | 1.00 cps | 1.0000        |

|                              |
|------------------------------|
| Gamma Ray Calibration Report |
|------------------------------|

|                     |                          |          |
|---------------------|--------------------------|----------|
| Serial Number:      | GR6                      |          |
| Tool Model:         | OPEN                     |          |
| Performed:          | Thu Jul 09 09:06:42 2009 |          |
| Calibrator Value:   | 150.0                    | GAPI     |
| Background Reading: | 0.0                      | cps      |
| Calibrator Reading: | 276.0                    | cps      |
| Sensitivity:        | 0.6835                   | GAPI/cps |