



SUPERIOR  
Hays,  
Kansas

COMPENSATED  
DENSITY / NEUTRON  
LOG

Company RAYMOND OIL COMPANY, INC.  
Well #2 MICHAUD TRUST  
Field ALAMOTA WEST  
County LANE  
State KANSAS

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Field ALAMOTA WEST  
County LANE State KANSAS

Location: API # : 15-101-22288-0000

1747' FNL & 1999' FEL

Other Services  
DIL/MEL

SEC 21 TWP 18S RGE 27W

Permanent Datum GROUND LEVEL Elevation 2692  
Log Measured From KELLY BUSHING 9' A.G.L.  
Drilling Measured From KELLY BUSHING

Elevation  
K.B. 2701  
D.F. 2699  
G.L. 2692

Date 3/28/11

Run Number ONE

Depth Driller 4725

Depth Logger 4725

Bottom Logged Interval 4701

Top Log Interval 3400

Casing Driller 8 5/8"@254'

Casing Logger 255

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.3/68

pH / Fluid Loss 9.5/6.8

Source of Sample FLOWLINE

Rim @ Meas. Temp 1.50@90F

Rmf @ Meas. Temp 1.13@90F

Rmc @ Meas. Temp 1.80@90F

Source of Rmf / Rmc MEASUREMENT

Rim @ BHT 1.10@123F

Time Circulation Stopped 2.5 HOURS

Time Logger on Bottom 3:00 A.M.

Maximum Recorded Temperature 123F

Equipment Number 0836

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By KIM SHOEMAKER

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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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395  
DIRECTIONS  
DIGHTON, KS. 8E. ON HWY 96 PAST MM #94, 1/4S. INTO @TANK BATTERY

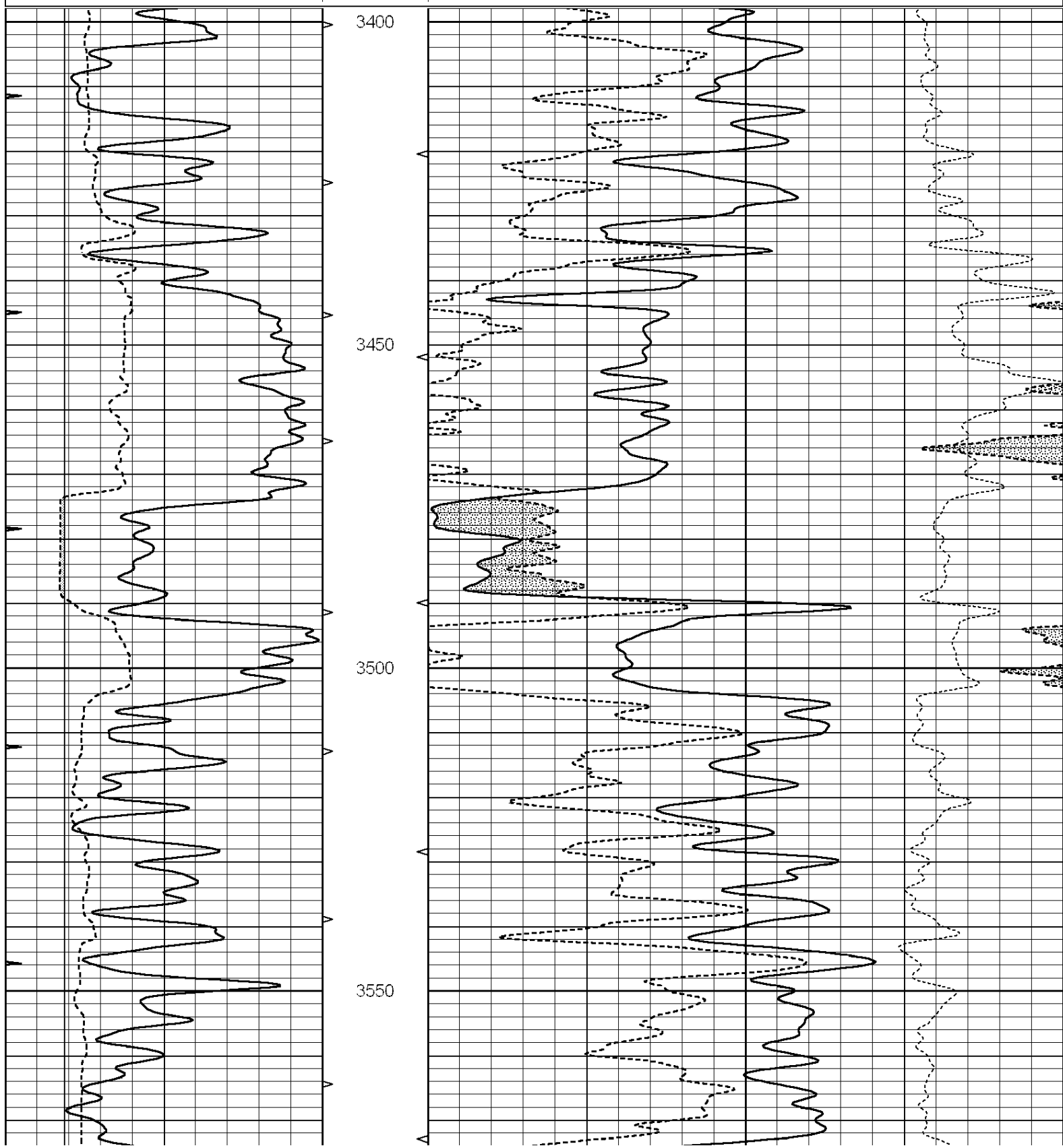


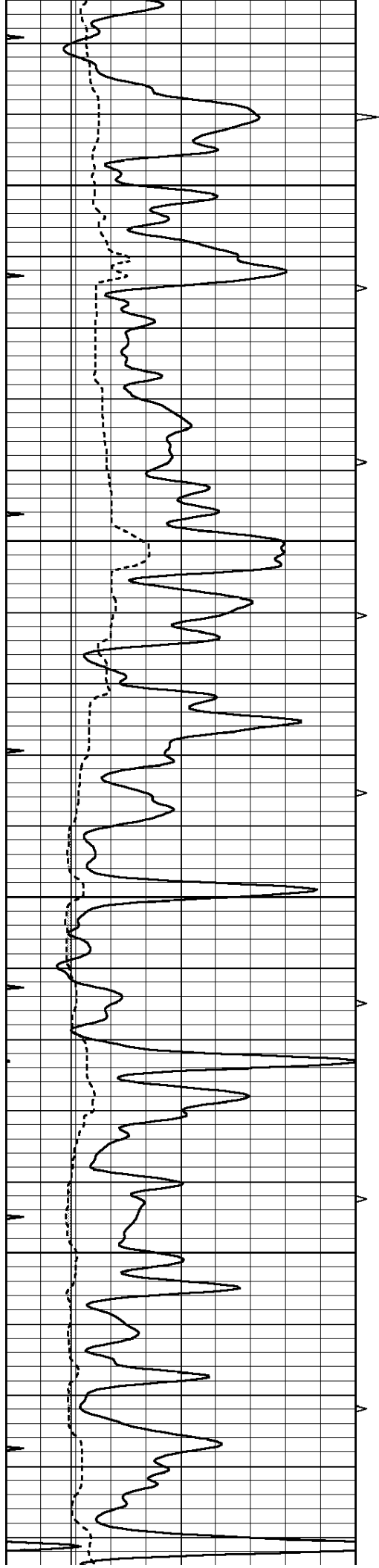
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MAIN SECTION

Database File: 006623ddn.db  
Dataset Pathname: pass4.3  
Presentation Format: den\_neu  
Dataset Creation: Tue Mar 29 04:11:35 2011 by Calc Open-Cased 090629  
Charted by: Depth in Feet scaled 1:240

|   |                  |     |          |      |                          |      |
|---|------------------|-----|----------|------|--------------------------|------|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV     | 30   | COMPENSATED DENSITY (pu) | -10  |
| 6 | CALIPER (in)     | 16  | 10 (ft3) | 0 30 | COMPENSATED NEUTRON (pu) | -10  |
| 0 | MINMK            | 20  | TBHV     |      | -0.25 CORRECTION (g/cc)  | 0.25 |
|   |                  |     | 0 (ft3)  | 10   |                          |      |



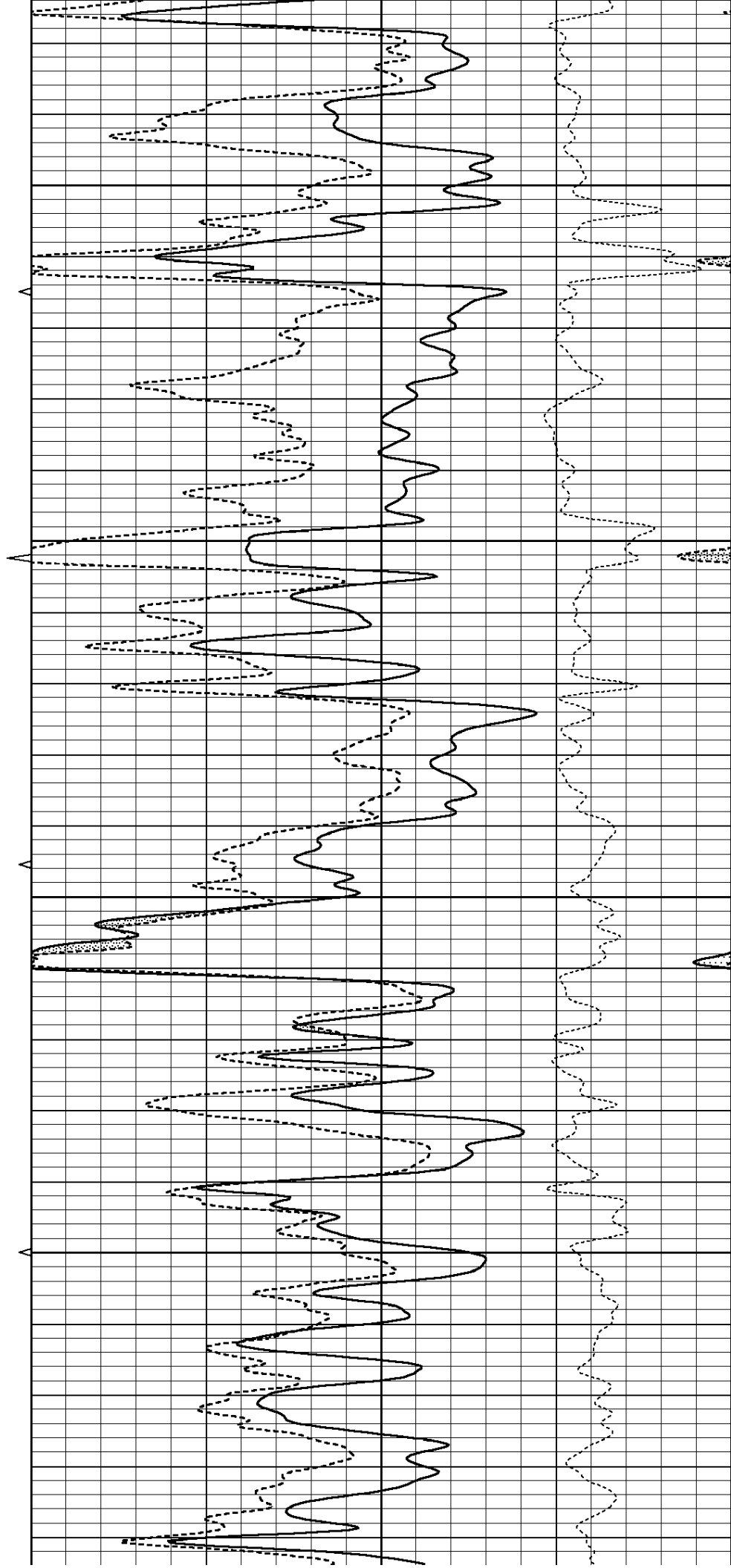


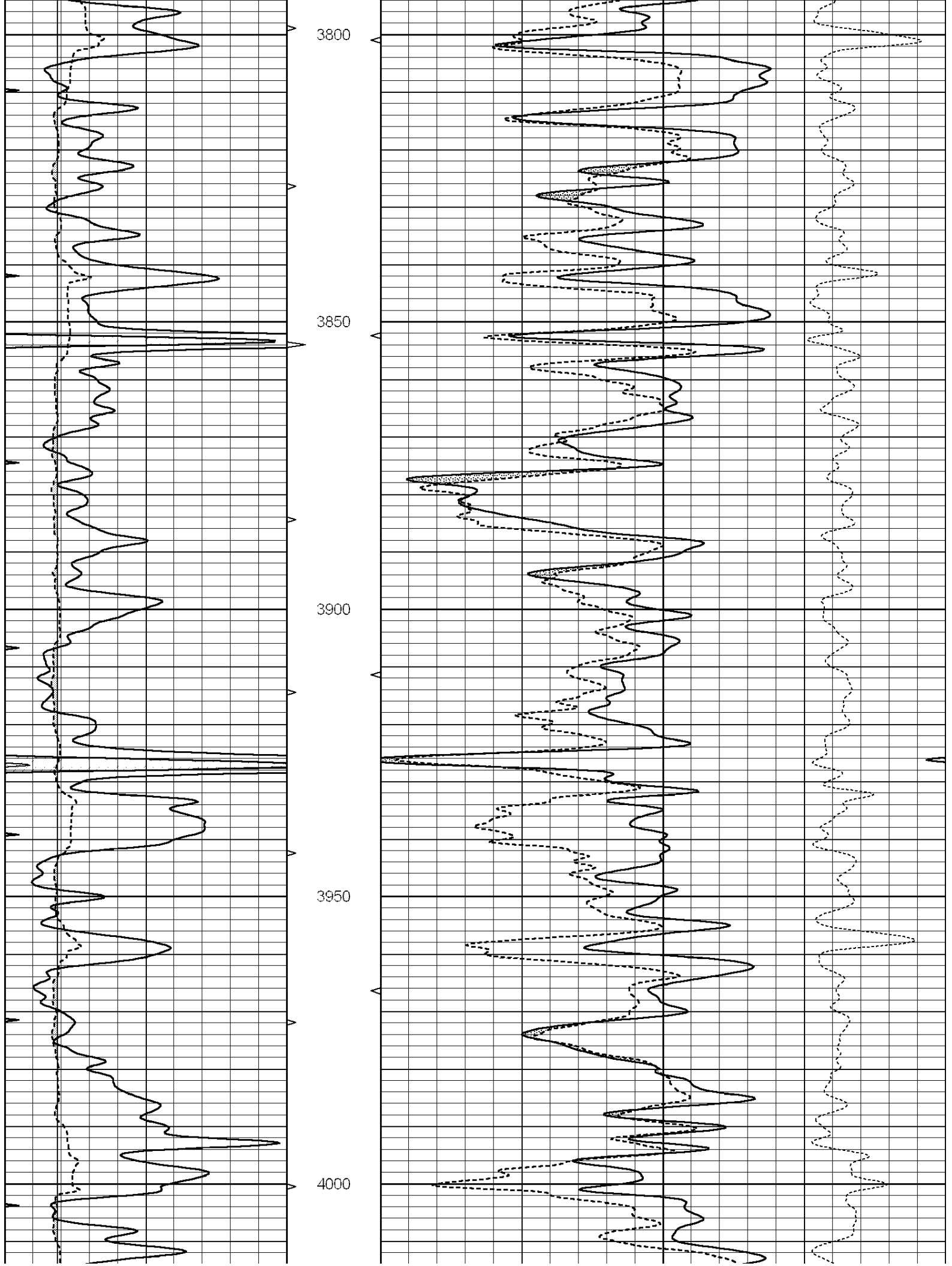
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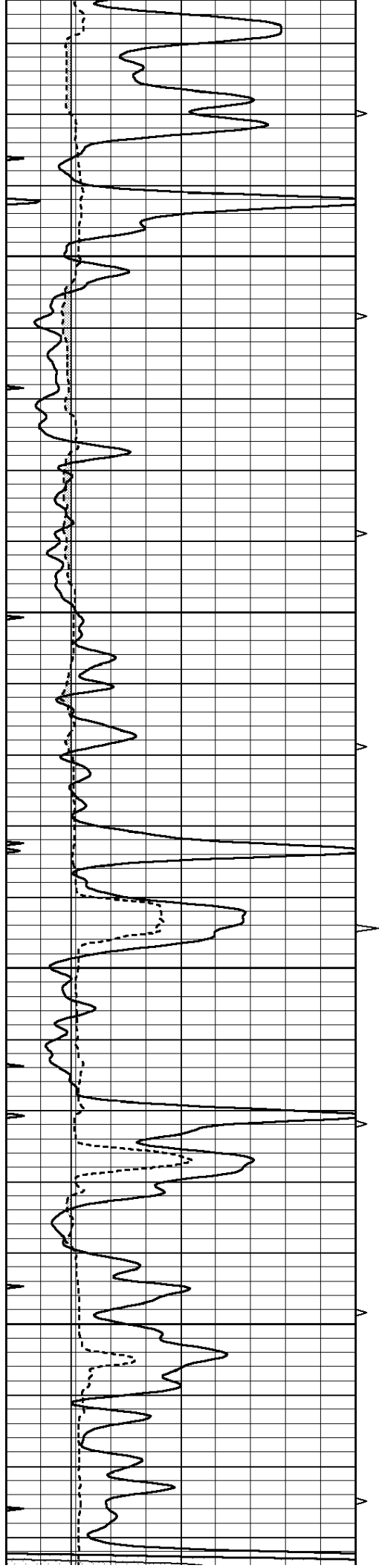
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3700

3750





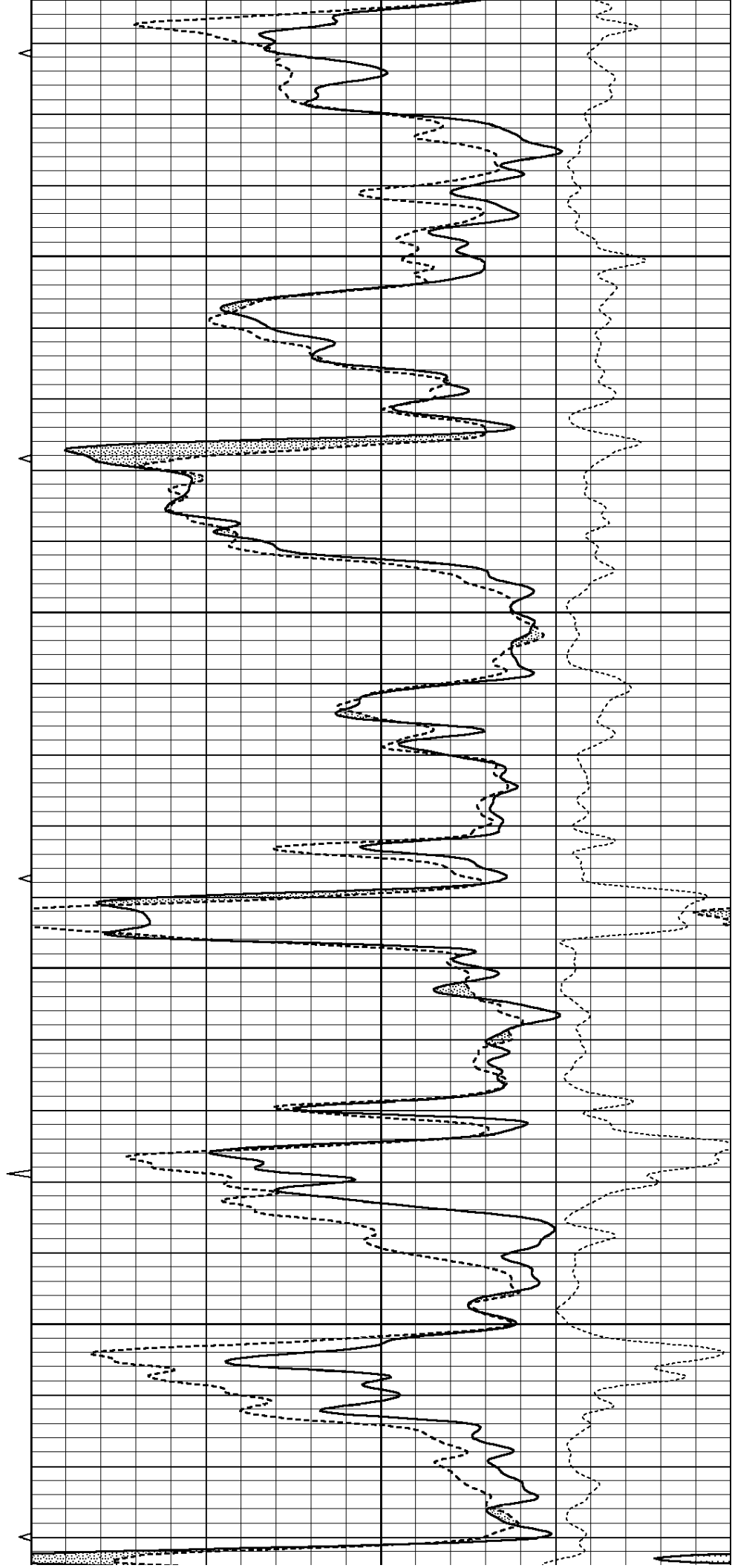


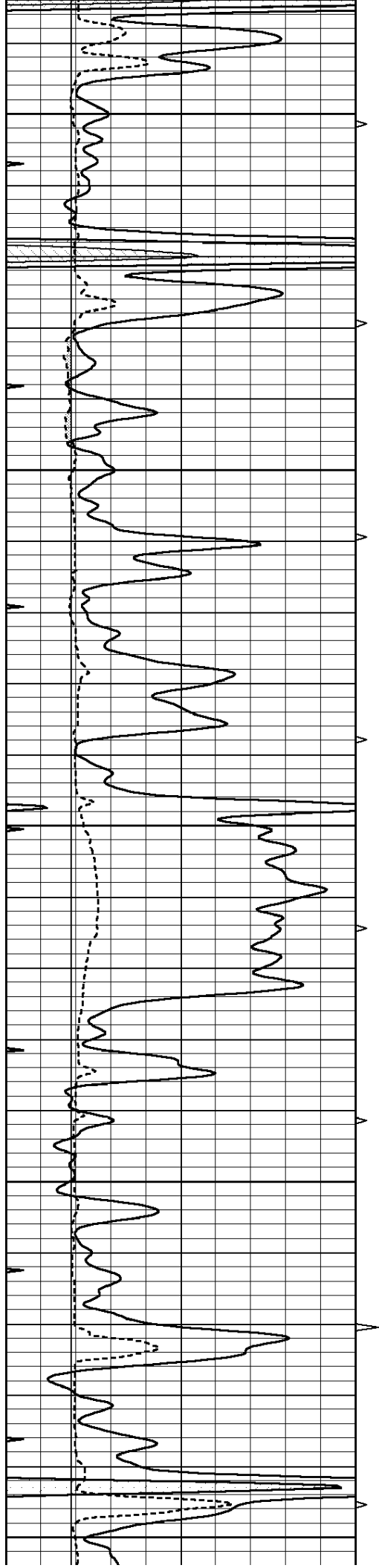
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4100

4150

4200





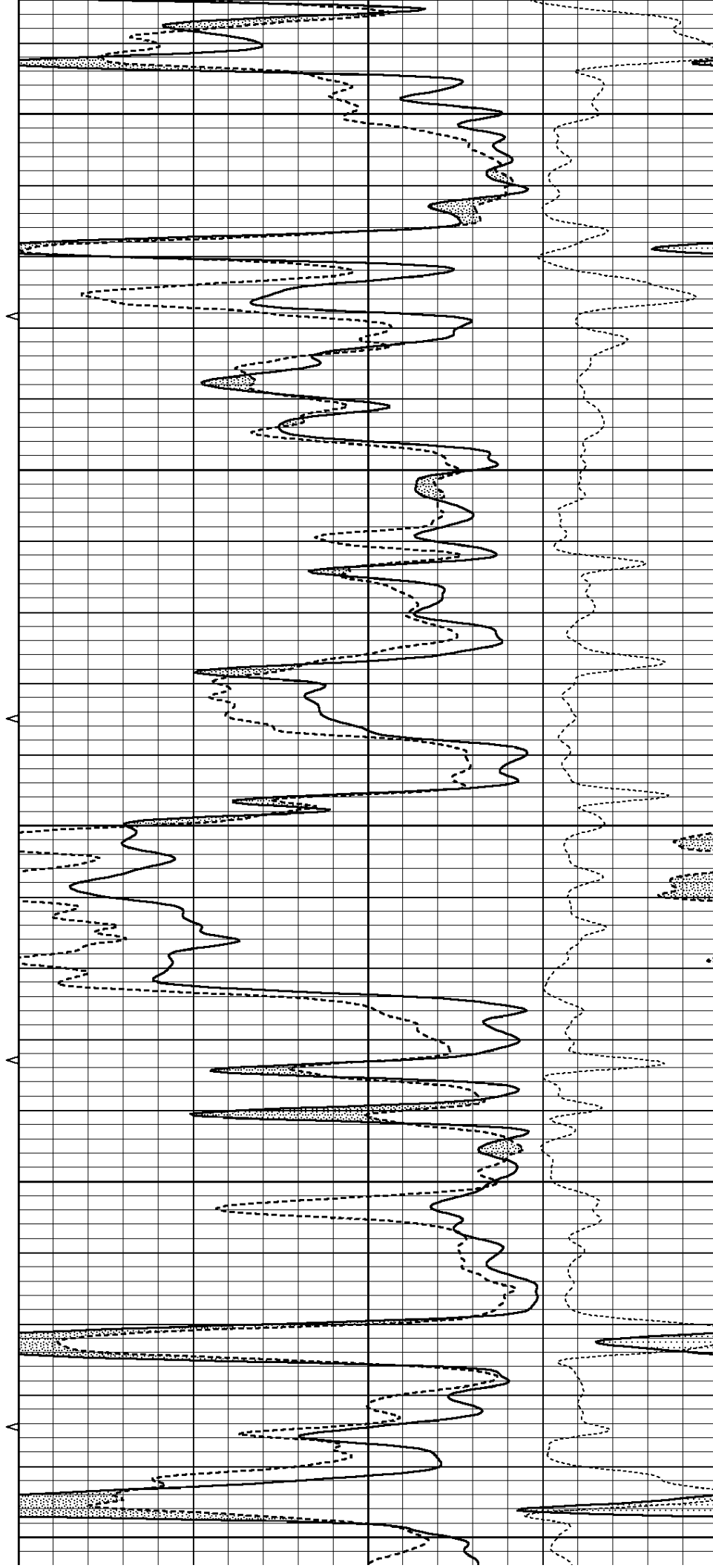
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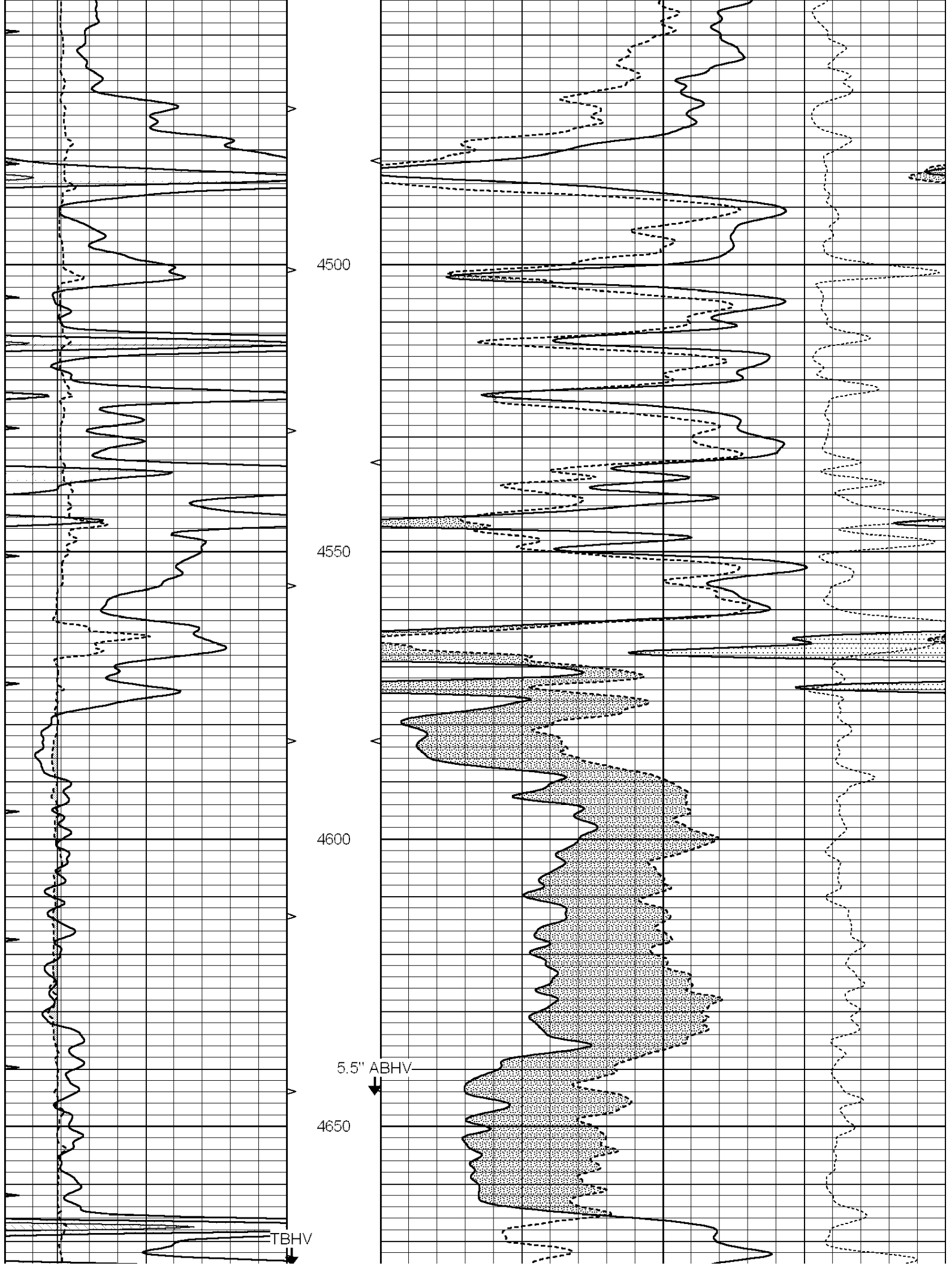
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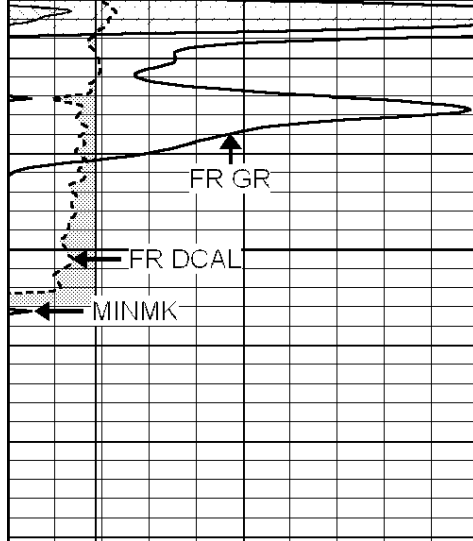
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4450





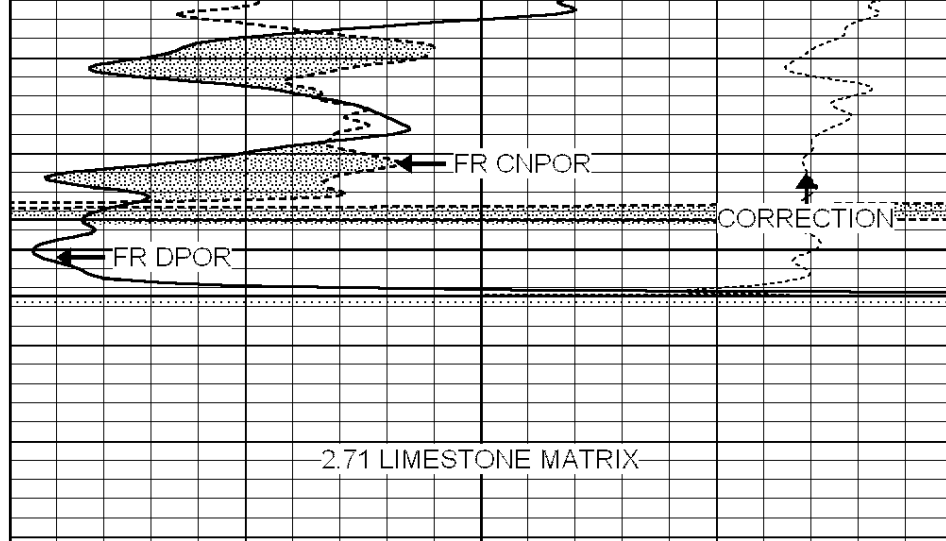


4700

LTD 4725

|   |                  |     |
|---|------------------|-----|
| 0 | GAMMA RAY (GAPI) | 150 |
| 6 | CALIPER (in)     | 16  |
| 0 | MINMK            | 20  |

|          |    |
|----------|----|
| ABHV     | 30 |
| 10 (ft3) | 0  |
| TBHV     | 30 |
| 0 (ft3)  | 10 |



2.71 LIMESTONE MATRIX

|                          |      |
|--------------------------|------|
| COMPENSATED DENSITY (pu) | -10  |
| COMPENSATED NEUTRON (pu) | -10  |
| -0.25 CORRECTION (g/cc)  | 0.25 |



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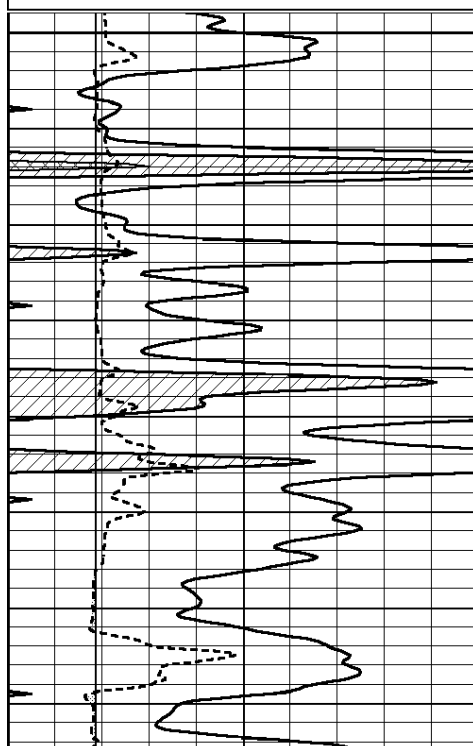
# REPEAT SECTION

Database File: 006623ddn.db  
Dataset Pathname: pass3.7  
Presentation Format: den\_neu  
Dataset Creation: Tue Mar 29 04:31:04 2011 by Calc Open-Cased 090629  
Charted by: Depth in Feet scaled 1:240

|   |                  |     |
|---|------------------|-----|
| 0 | GAMMA RAY (GAPI) | 150 |
| 6 | CALIPER (in)     | 16  |
| 0 | MINMK            | 20  |

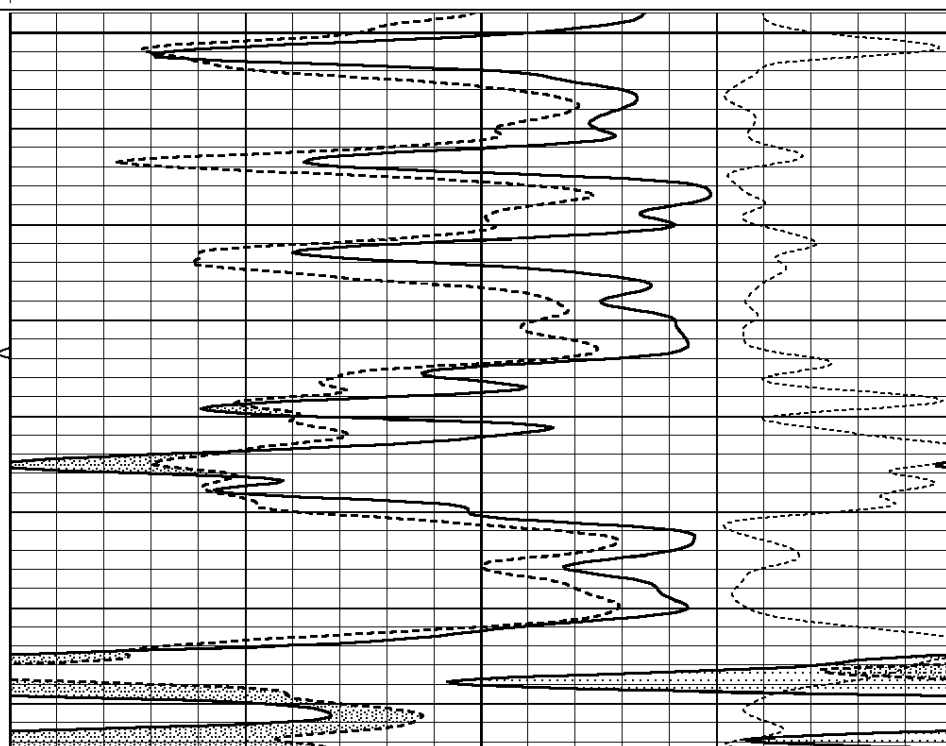
|          |    |
|----------|----|
| ABHV     | 30 |
| 10 (ft3) | 0  |
| TBHV     | 30 |
| 0 (ft3)  | 10 |

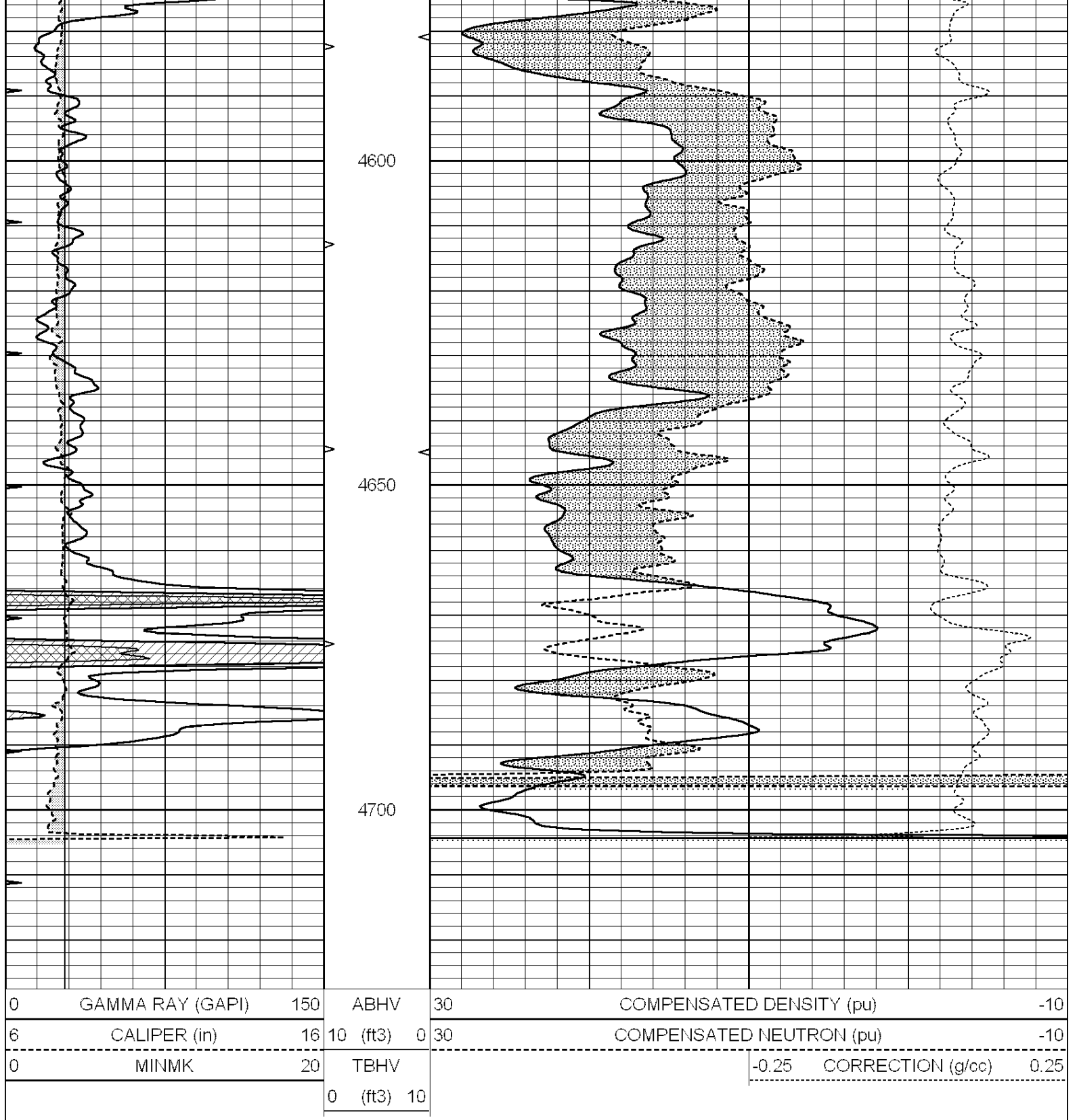
|                          |      |
|--------------------------|------|
| COMPENSATED DENSITY (pu) | -10  |
| COMPENSATED NEUTRON (pu) | -10  |
| -0.25 CORRECTION (g/cc)  | 0.25 |



4500

4550





### Calibration Report

Database File: 006623ddh.db  
Dataset Pathname: pass4.3  
Dataset Creation: Tue Mar 29 04:11:35 2011 by Calc Open-Cased 090629

### Dual Induction Calibration Report

Serial-Model: DIL6-GEAR  
Performed: Tue Mar 29 02:36:46 2011

### Readings

### References

### Results

Loop: Air Loop Air Loop m h

|           |       |       |   |       |         |        |         |         |
|-----------|-------|-------|---|-------|---------|--------|---------|---------|
| Deep      | 0.001 | 0.644 | V | 0.000 | 400.000 | mmho/m | 660.000 | -4.000  |
| Medium    | 0.020 | 0.738 | V | 0.000 | 462.500 | mmho/m | 740.000 | -21.000 |
| Internal: | Zero  | Cal   |   | Zero  | Cal     |        | m       | b       |
| Deep      | 0.000 | 1.000 | V | 0.000 | 1.000   | mmho/m | 1.000   | 0.000   |
| Medium    | 0.000 | 1.000 | V | 0.000 | 1.000   | mmho/m | 1.000   | 0.000   |

Litho Density Calibration Report

Serial: 003N      Model: PRB

Performed Tue Sep 08 14:14:44 2009

| Litho Density Calibration |            |             |          |                     |         |
|---------------------------|------------|-------------|----------|---------------------|---------|
|                           | Background | Magnesium   | Aluminum | Sandstone           |         |
| Window 1                  | 2042.6     | 12312.8     | 4225.8   | 13758.4             | cps     |
| Window 2                  | 1855.8     | 10134.7     | 3624.2   | 11113.1             | cps     |
| Window 3                  | 1639.4     | 6760.2      | 2716.3   | 7260.3              | cps     |
| Window 4                  | 466.4      | 469.2       | 466.1    | 476.5               | cps     |
| Long Space                | 0.0        | 8278.9      | 1768.4   | 9257.4              | cps     |
| Short Space               | 2.2        | 2377.3      | 1544.1   | 2574.2              | cps     |
| Rho                       |            | 1.7100      | 2.5900   | 1.3800              | g/cc    |
| Pe                        |            |             | 2.5700   | 1.5500              |         |
| Rib Angle                 | : 44.4     | Rib Slope   | : 0.979  | Density/Spine Ratio | : 0.549 |
| Spine Angle               | : 74.4     | Spine Slope | : 3.577  | Spine Intercept     | : -18.8 |

|          |           |           |              |
|----------|-----------|-----------|--------------|
| Caliper  | Readings  | Reference |              |
| Low Ref  | 2.1       | 6.6       |              |
| High Ref | 4.4       | 14.0      |              |
|          | Gain: 3.2 |           | Offset: -0.1 |

Compensated Neutron Calibration Report

|                |        |
|----------------|--------|
| Serial Number: | NEU_4I |
| Tool Model:    | G      |

| CALIBRATION |          |     |         |     |               |  |
|-------------|----------|-----|---------|-----|---------------|--|
| Detector    | Readings |     | Target  |     | Normalization |  |
| Short Space | 996.00   | cps | 1000.00 | cps | 1.0000        |  |
| Long Space  | 977.00   | cps | 1000.00 | cps | 1.0000        |  |

Gamma Ray Calibration Report

|                     |                          |          |
|---------------------|--------------------------|----------|
| Serial Number:      | GR3                      |          |
| Tool Model:         | OPEN                     |          |
| Performed:          | Tue Mar 29 03:20:19 2011 |          |
| Calibrator Value:   | 200.0                    | GAPI     |
| Background Reading: | 3.0                      | cps      |
| Calibrator Reading: | 186.0                    | cps      |
| Sensitivity:        | 1.7000                   | GAPI/cps |