

**NABORS****COMPLETION  
& PRODUCTION  
SERVICES CO.****COMPENSATED  
DENSITY/NEUTRON  
LOG**

|                              |                                           |                    |
|------------------------------|-------------------------------------------|--------------------|
| Company                      | DOUBLE D'S LLC.                           |                    |
| Well                         | SHORTY DREILING #1                        |                    |
| Field                        | MARTINA NORTH                             |                    |
| County                       | ELLIS                                     | State KANSAS       |
| Location:                    | AP1 # : 15-051-26514-0000                 | Other Services     |
|                              | 344' FSL & 2031' FWL<br>SW - SE - SE - SW | DIL/MEL            |
|                              | SEC 14 TWP 15S RGE 19W                    | Elevation          |
| Permanent Datum              | GROUND LEVEL                              | K.B. 1986          |
| Log Measured From            | KELLY BUSHING 7' A.G.L.                   | D.F. 1984          |
| Drilling Measured From       | KELLY BUSHING                             | G.L. 1979          |
| Date                         | 4/23/13                                   |                    |
| Run Number                   | ONE                                       |                    |
| Depth Driller                | 3690                                      |                    |
| Depth Logger                 | 3693                                      |                    |
| Bottom Logged Interval       | 3669                                      |                    |
| Top Log Interval             | 2800                                      |                    |
| Casing Driller               | 8 5/8" @ 1171'                            |                    |
| Casing Logger                | 1170'                                     |                    |
| Bit Size                     | 7 7/8"                                    |                    |
| Type Fluid in Hole           | CHEMICAL MUD                              | CHLORIDES 3300 PPM |
| Density / Viscosity          | 9.0/50                                    |                    |
| pH / Fluid Loss              | 11.0/7.4                                  |                    |
| Source of Sample             | FLOWLINE                                  |                    |
| Rm @ Meas. Temp              | 0.85 @ 65F                                |                    |
| Rmt @ Meas. Temp             | 0.64 @ 65F                                |                    |
| Rmc @ Meas. Temp             | 1.02 @ 65F                                |                    |
| Source of Rmt / Rmc          | MEASUREMENT                               |                    |
| Rm @ BHT                     | 0.49 @ 113F                               |                    |
| Time Circulation Stopped     | 2 HOURS                                   |                    |
| Time Logger on Bottom        |                                           |                    |
| Maximum Recorded Temperature | 113F                                      |                    |
| Equipment Number             | 4010                                      |                    |
| Location                     | HAYS, KANSAS                              |                    |
| Recorded By                  | JEFF GRONEWEG                             |                    |
| Witnessed By                 | AL DOWNING                                |                    |

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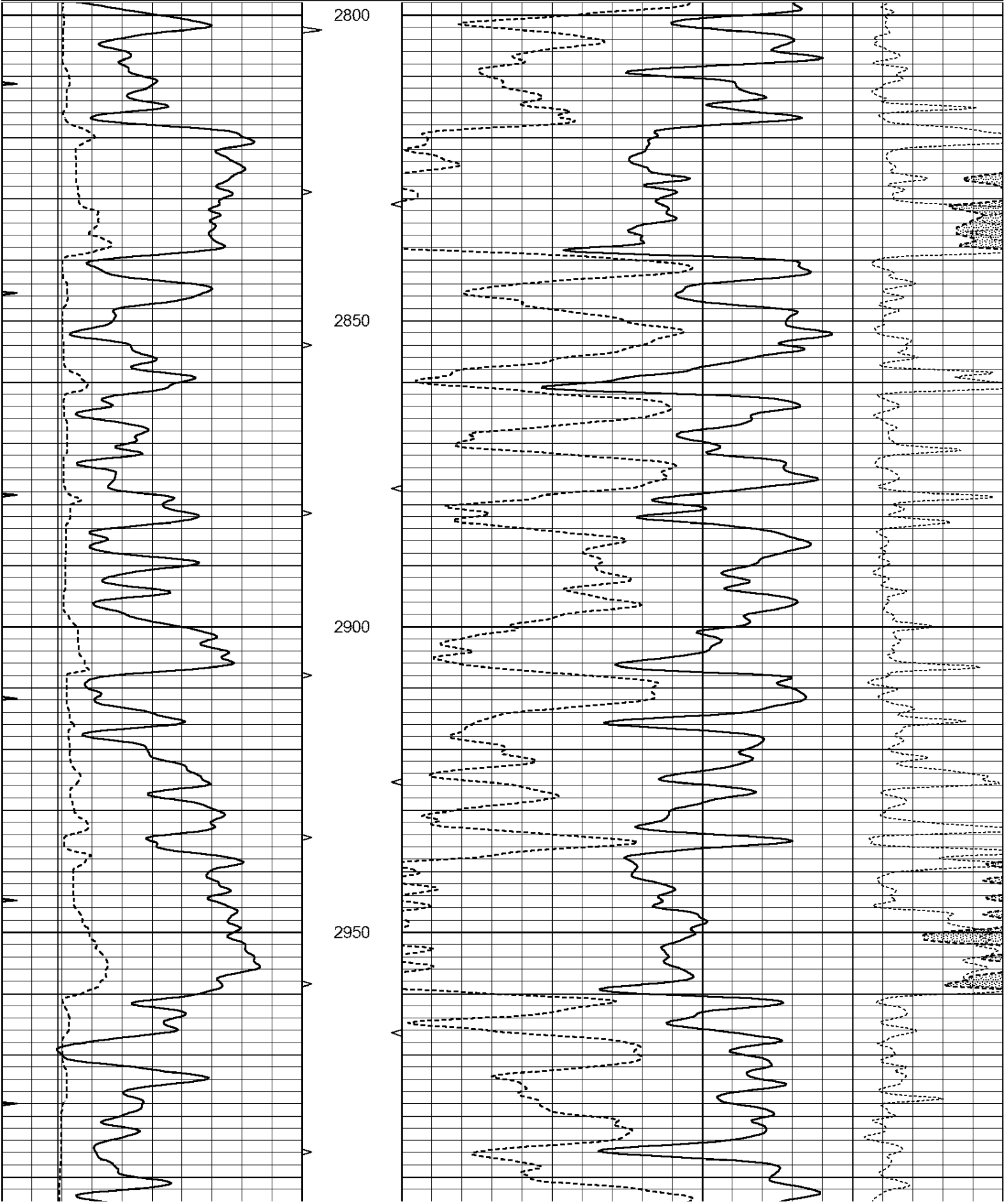
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

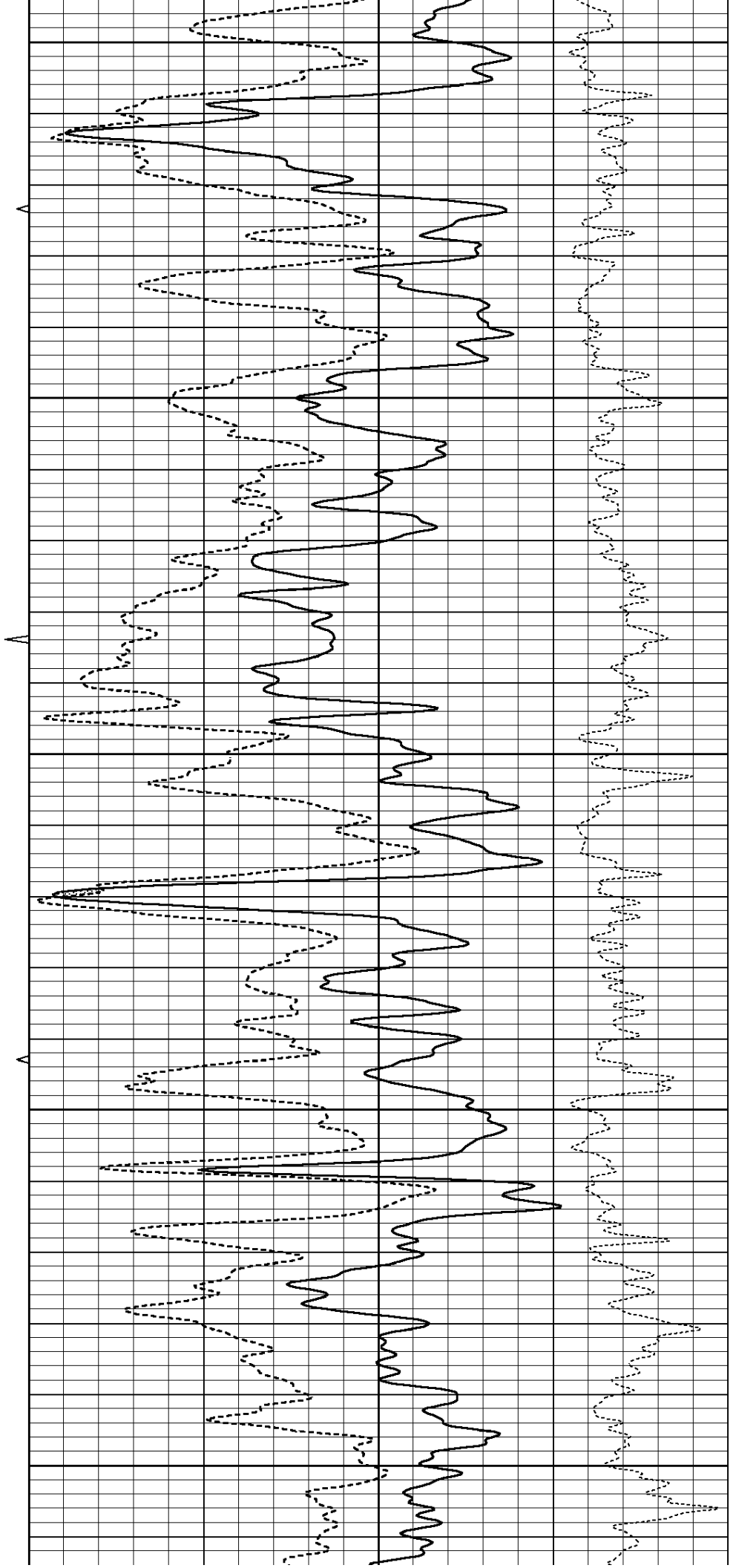
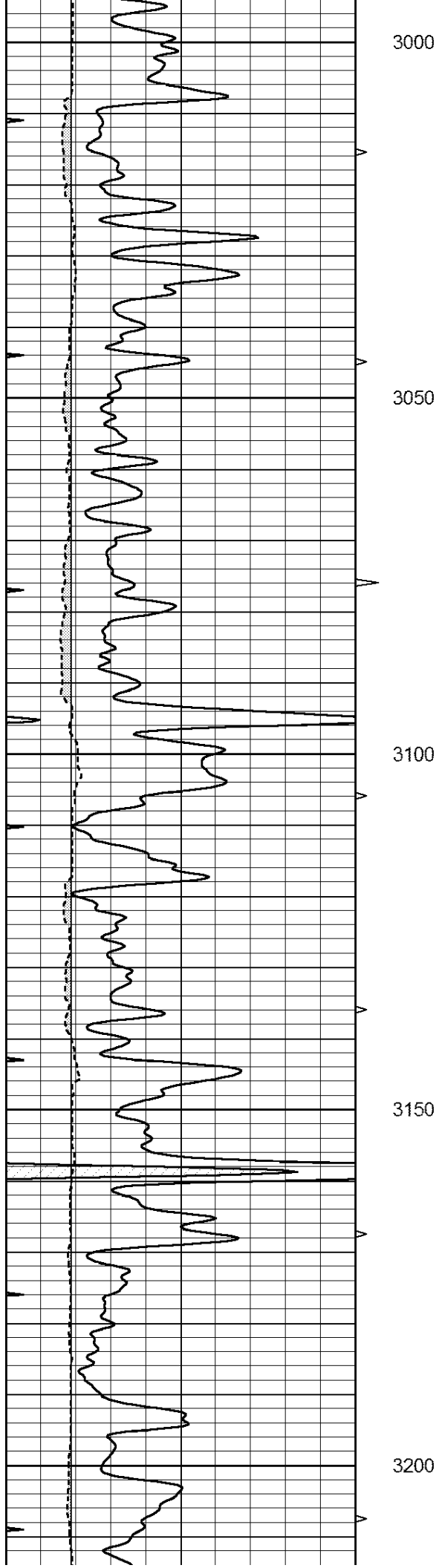
## Comments

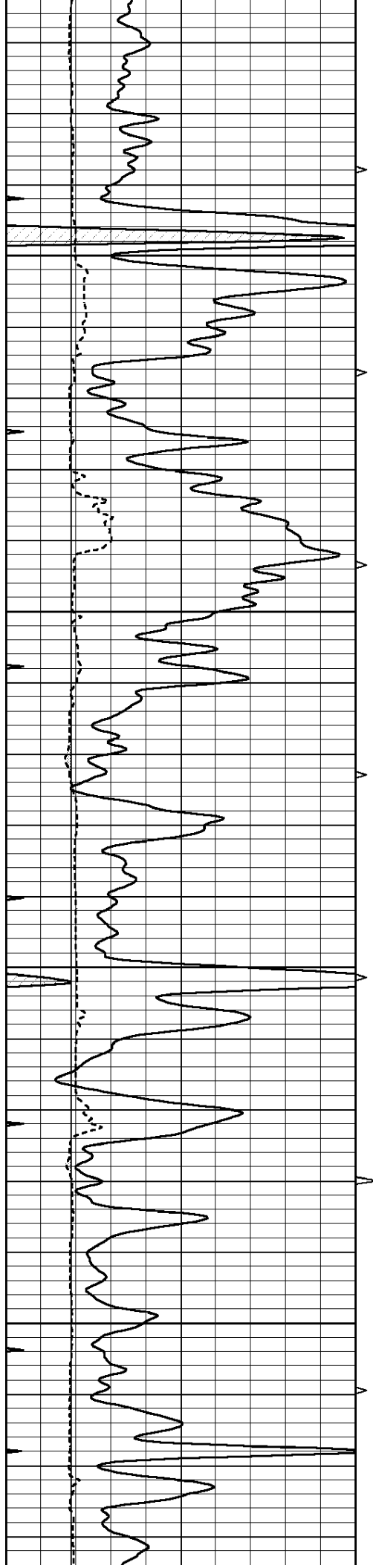
THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395  
DIRECTIONS:  
ANTONINO, KS - 3 MILES SOUTH - 1/2 MILE WEST - NORTH INTO

Database File: 010777ddn.db  
Dataset Pathname: pass3.2.1  
Presentation Format: den\_neu  
Dataset Creation: Tue Apr 23 06:35:23 2013  
Charted by: Depth in Feet scaled 1:240

|             |                  |                             |            |    |                          |                        |
|-------------|------------------|-----------------------------|------------|----|--------------------------|------------------------|
| Charted by: |                  | Depth in Feet scaled 1:2.10 |            |    |                          |                        |
| 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 |    |                          |                        |





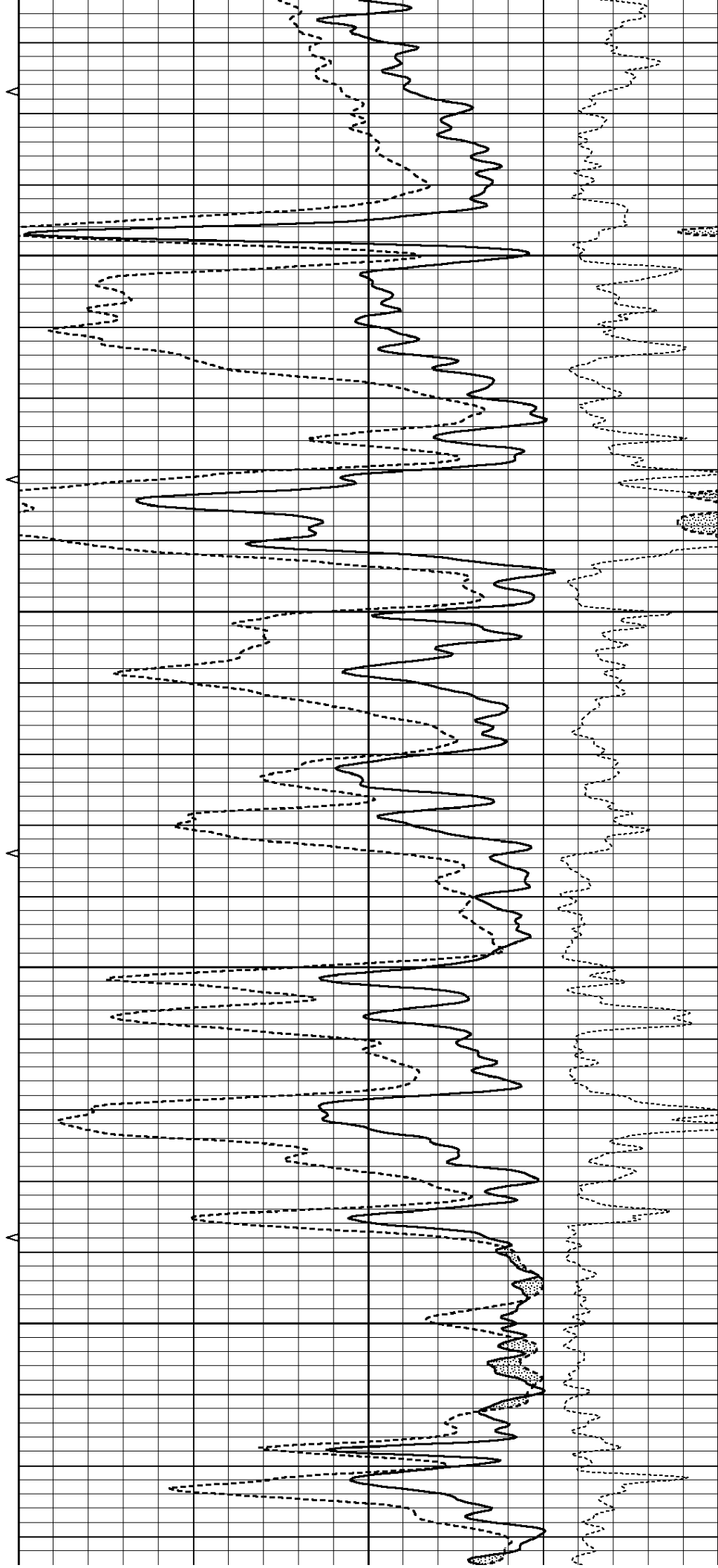


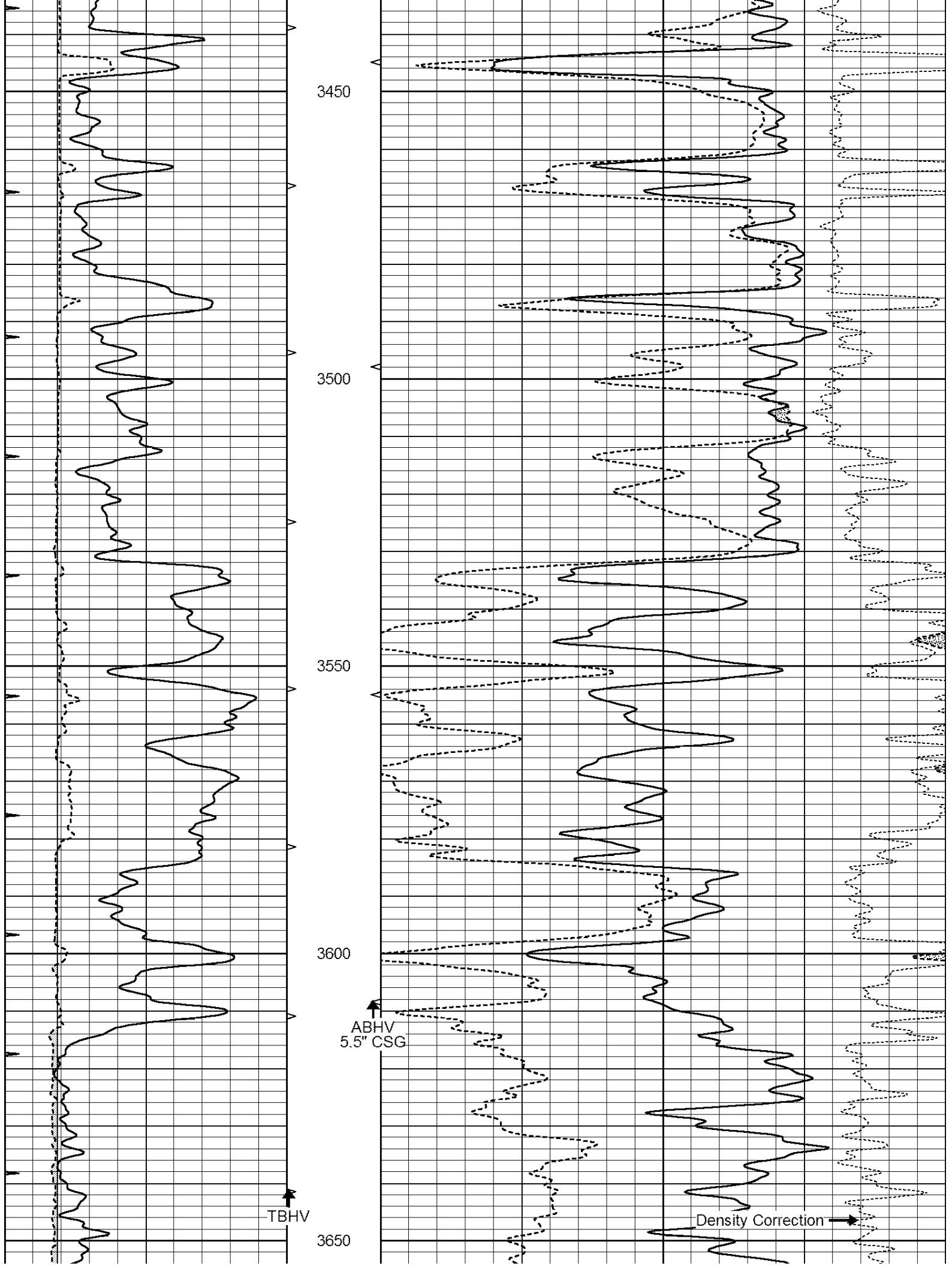
3250

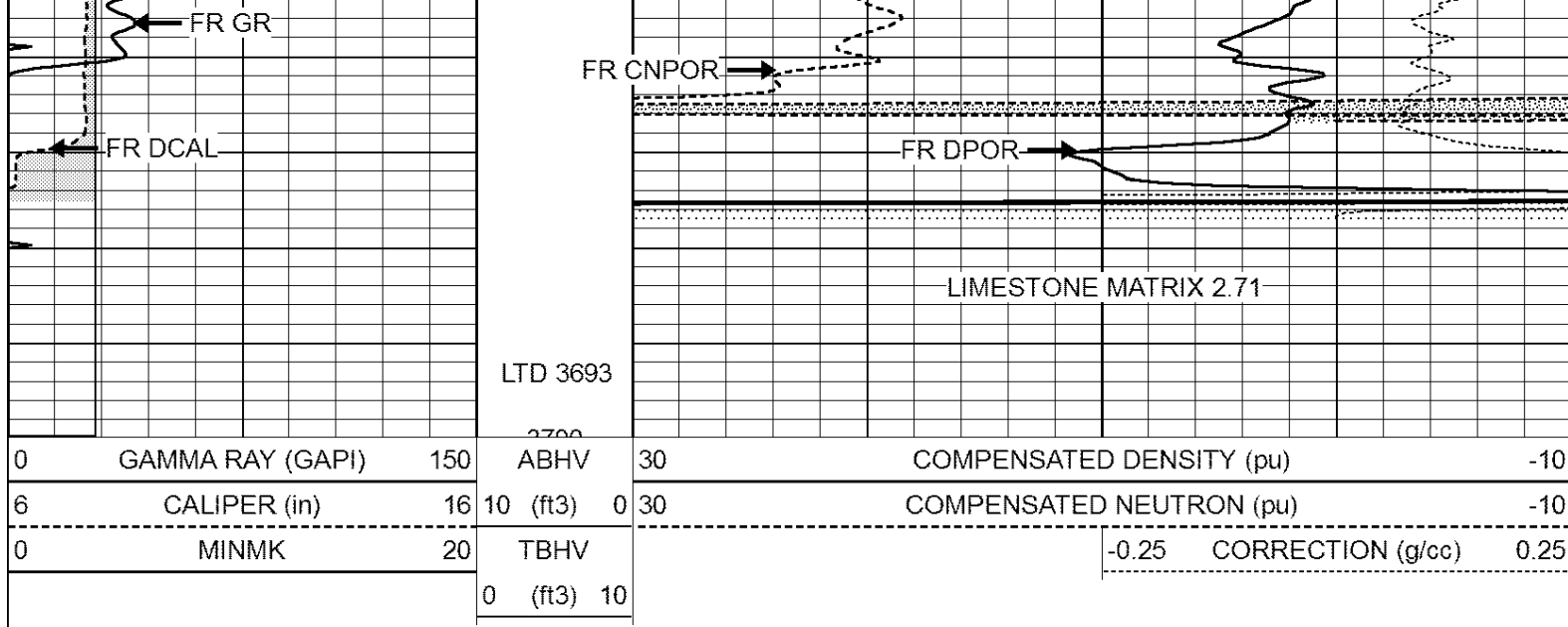
3300

3350

3400



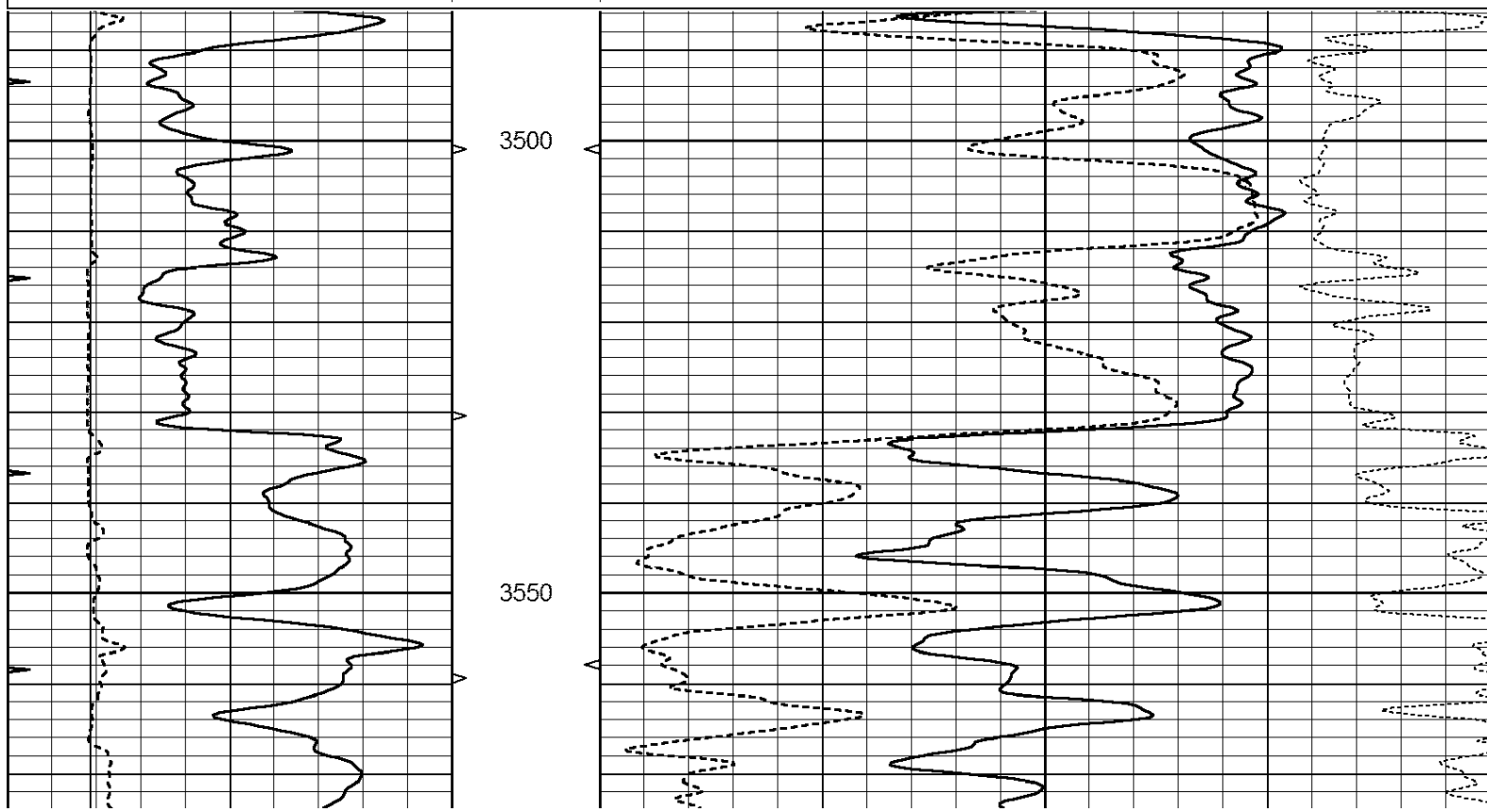


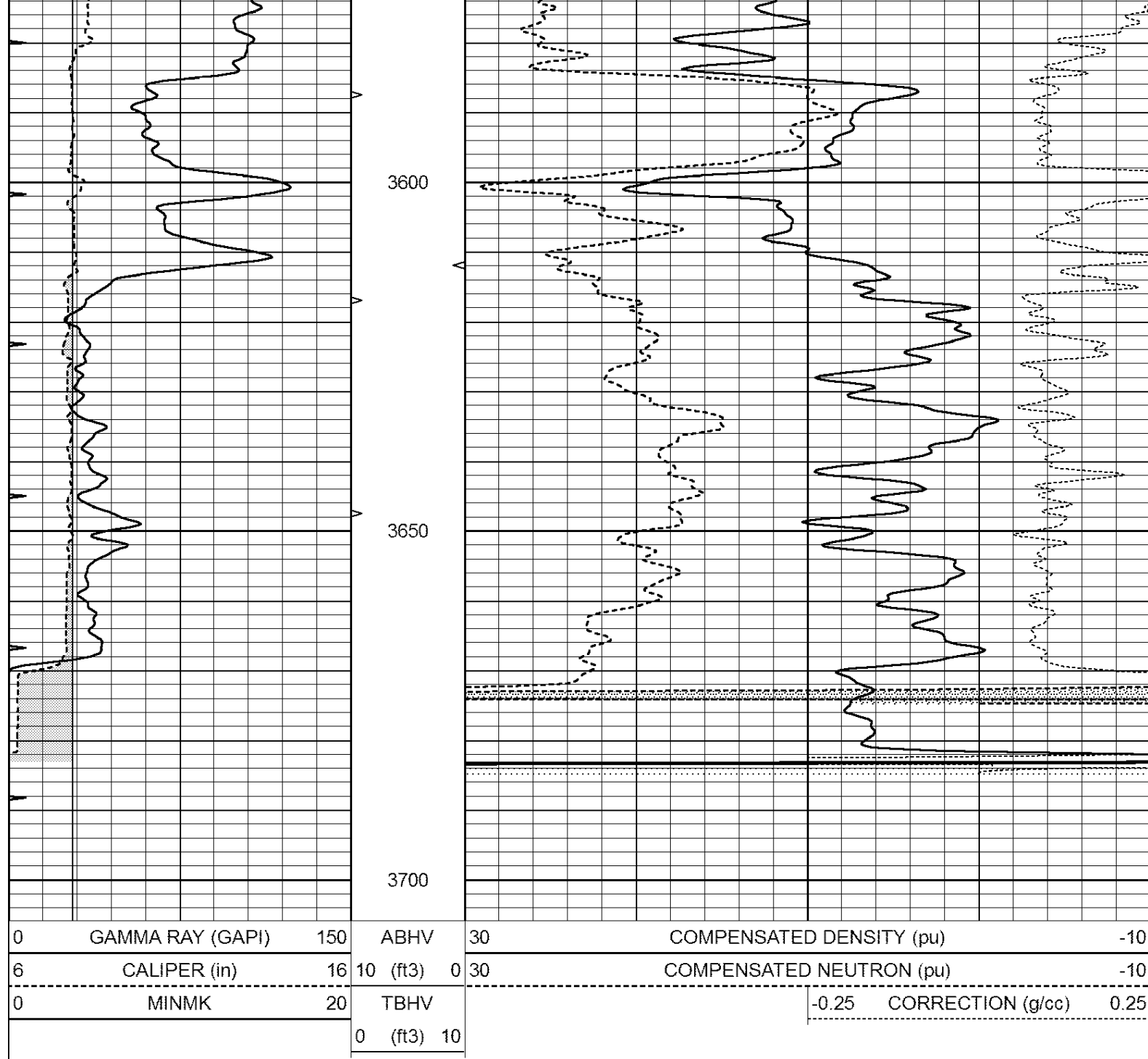


# REPEAT SECTION

Database File: 010777ddn.db  
 Dataset Pathname: pass2.2  
 Presentation Format: den\_neu  
 Dataset Creation: Tue Apr 23 05:52:40 2013 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 |                          |                          |       |                   |      |





### Calibration Report

Database File: 010777ddn.db  
Dataset Pathname: pass3.2.1  
Dataset Creation: Tue Apr 23 06:35:23 2013

### Dual Induction Calibration Report

Serial-Model: PROBE8-DILG  
Surface Cal Performed: Fri Aug 01 06:33:19 2008  
Downhole Cal Performed: Mon Jul 28 11:08:27 2008  
After Survey Verification Performed: Mon Jul 28 11:08:27 2008

#### Surface Calibration

| Loop:  | Readings |       |   | References |         |        | Results |         |
|--------|----------|-------|---|------------|---------|--------|---------|---------|
|        | 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  |         |       |
|                      |          | -7.200 | 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:                         | GEAR3-GEARHART           |
| Source / Verifier:                    | 143 / 143                |
| Master Calibration Performed:         | Fri Jan 04 15:48:16 2013 |
| Before Survey Verification Performed: |                          |
| After Survey Verification Performed:  |                          |

|                    |                     |      |  |                             |        |               |
|--------------------|---------------------|------|--|-----------------------------|--------|---------------|
| Master Calibration |                     |      |  |                             |        |               |
|                    | Density             |      |  | Far Detector                |        | Near Detector |
| Magnesium          | 1.710               | g/cc |  | 935.36                      | 501.55 | cps           |
| Aluminum           | 2.580               | g/cc |  | 209.32                      | 357.01 | cps           |
|                    | Spine Angle = 77.21 |      |  | Density/Spine Ratio = 0.567 |        |               |
|                    | Size                |      |  | Reading                     |        |               |
| Small Ring         | 8.00                | in   |  | 4.29                        | V      |               |
| Large Ring         | 14.00               | in   |  | 6.24                        | V      |               |

|                            |        |      |  |          |      |  |
|----------------------------|--------|------|--|----------|------|--|
| Before Survey Verification |        |      |  |          |      |  |
|                            | Target |      |  | Measured |      |  |
|                            |        | g/cc |  |          | g/cc |  |
|                            |        | g/cc |  |          | g/cc |  |
|                            |        | g/cc |  |          | g/cc |  |

|                           |        |      |  |          |      |  |
|---------------------------|--------|------|--|----------|------|--|
| After Survey Verification |        |      |  |          |      |  |
|                           | Target |      |  | Measured |      |  |
|                           |        | g/cc |  |          | g/cc |  |
|                           |        | g/cc |  |          | g/cc |  |
|                           |        | g/cc |  |          | g/cc |  |

Compensated Neutron Calibration Report

|                |    |
|----------------|----|
| Serial Number: | 6I |
| Tool Model:    | G  |



|                              |             |                          |          |          |        |               |
|------------------------------|-------------|--------------------------|----------|----------|--------|---------------|
| CALIBRATION                  |             |                          |          |          |        |               |
|                              | Detector    | Readings                 |          | Target   |        | Normalization |
|                              | Short Space | 1.00                     | cps      | 1.00     | cps    | 1.0000        |
|                              | Long Space  | 1.00                     | cps      | 1.00     | cps    | 1.0000        |
| PRE-SURVEY VERIFICATION      |             |                          |          |          |        |               |
|                              | Detector    | Readings                 |          | Measured | Target |               |
| 1)                           | Short Space |                          | cps      |          |        |               |
|                              | Long Space  |                          | cps      | pu       |        | pu            |
| 2)                           | Short Space |                          | cps      |          |        |               |
|                              | Long Space  |                          | cps      | pu       |        |               |
| 3)                           | Short Space |                          | cps      |          |        |               |
|                              | Long Space  |                          | cps      | pu       |        |               |
| POST-SURVEY VERIFICATION     |             |                          |          |          |        |               |
|                              | Detector    | Readings                 |          | Measured | Target |               |
| 1)                           | Short Space |                          | cps      |          |        |               |
|                              | Long Space  |                          | cps      | pu       |        | pu            |
| 2)                           | Short Space |                          | cps      |          |        |               |
|                              | Long Space  |                          | cps      | pu       |        | pu            |
| 3)                           | Short Space |                          | cps      |          |        |               |
|                              | Long Space  |                          | cps      | pu       |        | pu            |
| Gamma Ray Calibration Report |             |                          |          |          |        |               |
| Serial Number:               |             | #8                       |          |          |        |               |
| Tool Model:                  |             | OPEN                     |          |          |        |               |
| Performed:                   |             | Mon Jun 13 16:56:43 2011 |          |          |        |               |
| Calibrator Value:            |             | 150.0                    | GAPI     |          |        |               |
| Background Reading:          |             | 0.0                      | cps      |          |        |               |
| Calibrator Reading:          |             | 175.0                    | cps      |          |        |               |
| Sensitivity:                 |             | 0.8371                   | GAPI/cps |          |        |               |