



**COMPLETION  
& PRODUCTION  
SERVICES CO.**

**COMPENSATED  
DENSITY/NEUTRON  
LOG**

|                              |                         |                           |                           |
|------------------------------|-------------------------|---------------------------|---------------------------|
| Company                      | BRINKER ENTERPRISES     | Company                   | BRINKER ENTERPRISES       |
| Well                         | KNIPP SW#2              | Well                      | KNIPP SW #2               |
| Field                        |                         | Field                     |                           |
| County                       | ROOKS                   | County                    | ROOKS                     |
| State                        | KANSAS                  | State                     | KANSAS                    |
| Location:                    | 2310' FSL & 620' FWL    | API # : 15-163-24179-0000 | Other Services<br>DIL/MEL |
| SEC 36 TWP 7S RGE 20W        |                         |                           |                           |
| Permanent Datum              | GROUND LEVEL            | Elevation                 | 1929                      |
| Log Measured From            | KELLY BUSHING 5' A.G.L. | K.B. 1934                 |                           |
| Drilling Measured From       | KELLY BUSHING           | D.F. 1932                 |                           |
| G.L. 1929                    |                         |                           |                           |
| Date                         | 3-16-14                 |                           |                           |
| Run Number                   | ONE                     |                           |                           |
| Depth Driller                | 3455                    |                           |                           |
| Depth Logger                 | 3454                    |                           |                           |
| Bottom Logged Interval       | 3430                    |                           |                           |
| Top Log Interval             | 2800                    |                           |                           |
| Casing Driller               | 13 3/8" @ 50'           |                           |                           |
| Casing Logger                | 51'                     |                           |                           |
| Bit Size                     | 7.875                   |                           |                           |
| Type Fluid in Hole           | CHEMICAL MUD            | CHLORIDES 2100            |                           |
| Density / Viscosity          | 9.1 / 54                |                           |                           |
| pH / Fluid Loss              | 10.0 / 5.6              |                           |                           |
| Source of Sample             | FLOWLINE                |                           |                           |
| Rim @ Meas. Temp             | 1.25 @ 72F              |                           |                           |
| Rmf @ Meas. Temp             | 0.94 @ 72F              |                           |                           |
| Rmc @ Meas. Temp             | 1.50 @ 72F              |                           |                           |
| Source of Rmf / Rmc          | MEASURED                |                           |                           |
| Rim @ BHT                    | 0.81 @ 111F             |                           |                           |
| Time Circulation Stopped     | 2 HOURS                 |                           |                           |
| Time Logger on Bottom        |                         |                           |                           |
| Maximum Recorded Temperature | 111F                    |                           |                           |
| Equipment Number             | 860                     |                           |                           |
| Location                     | HAYS, KS.               |                           |                           |
| Recorded By                  | JEFF GRONEWEG           |                           |                           |
| Witnessed By                 | RICHARD BELL            |                           |                           |

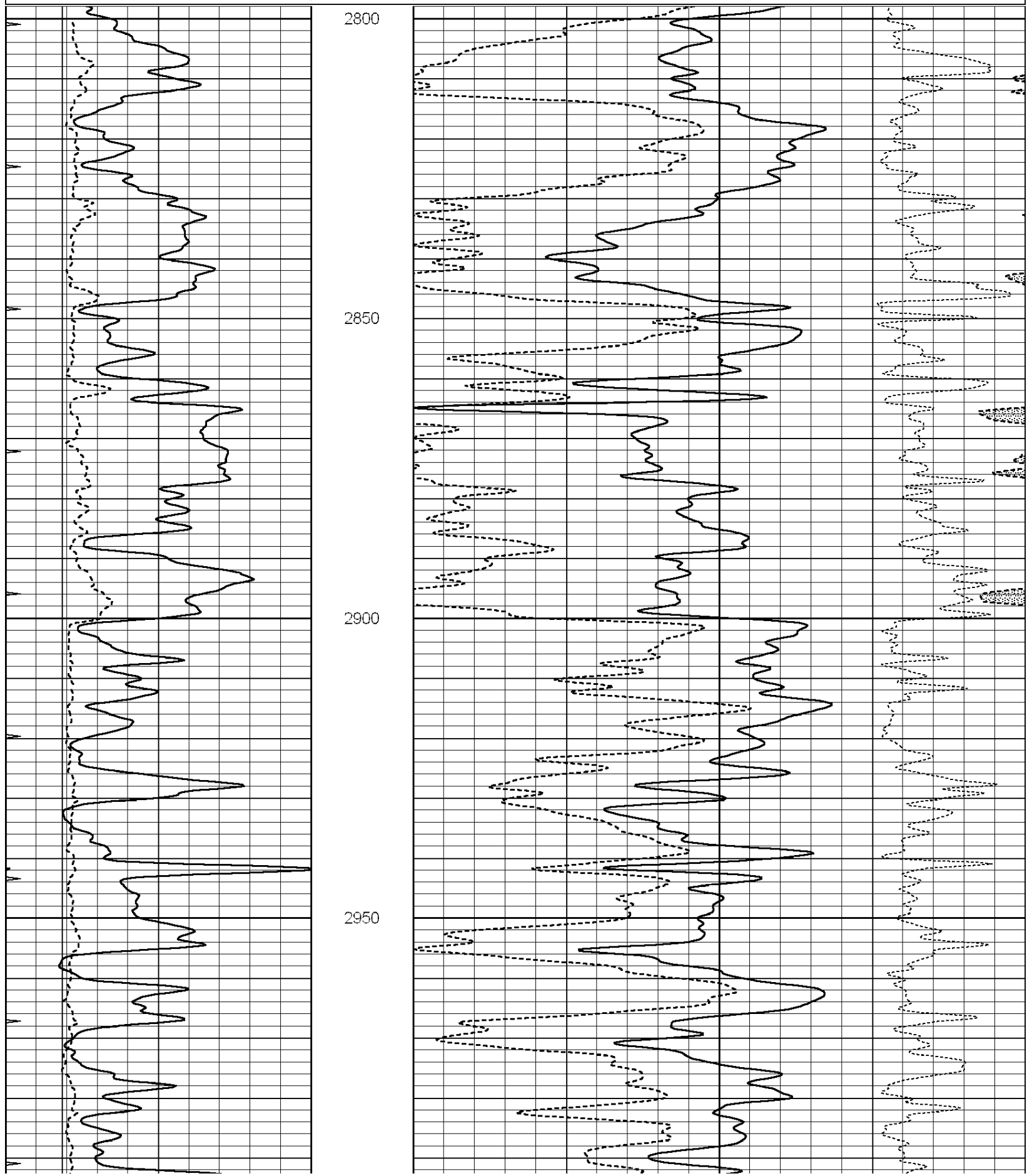
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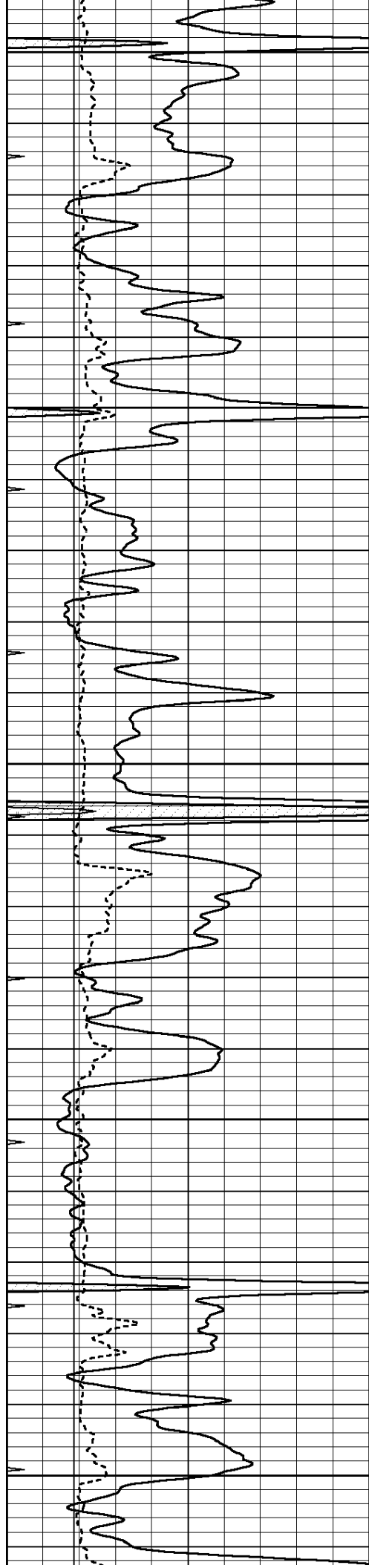
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

NABORS COMPLETION & PRODUCTION SERVICES  
785-628-6395  
THANK YOU FOR YOUR BUSINESS  
DIRECTIONS: INTERSECTION OF WEBSTER LAKE & HWY 24 - 5 MILES WEST TO RD 6  
3/4 MILES SOUTH - EAST INTO

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





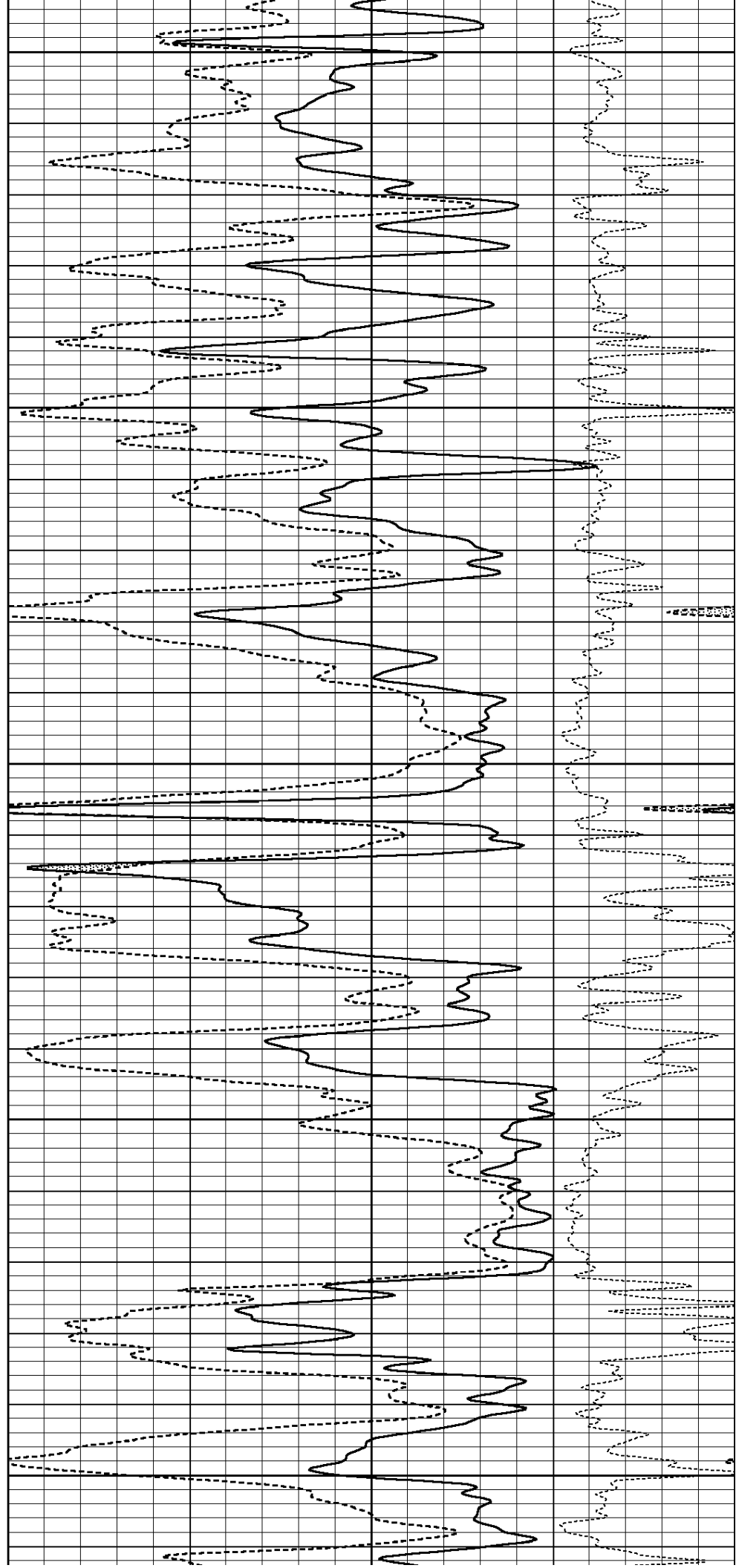
3000

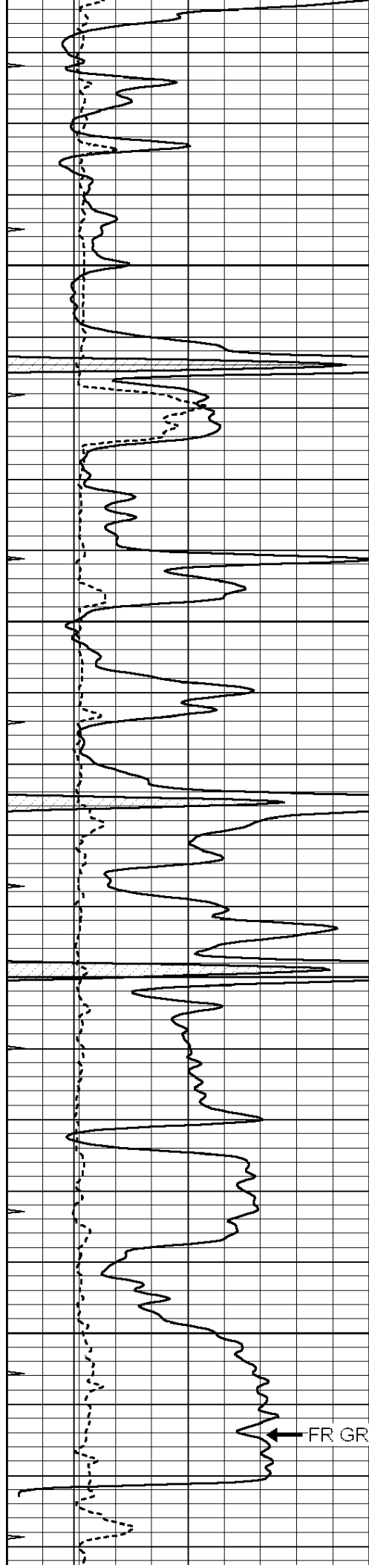
3050

3100

3150

3200





3250

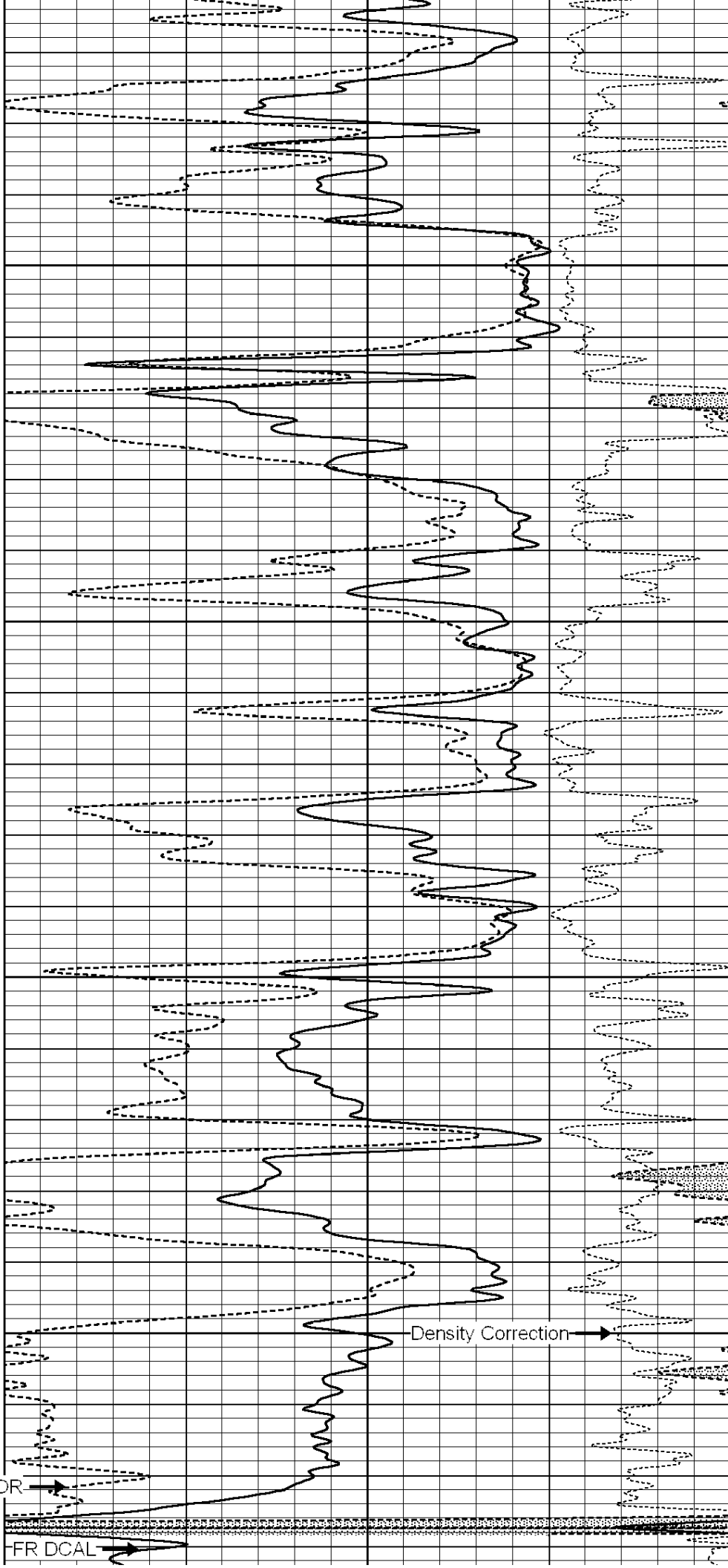
3300

3350

3400

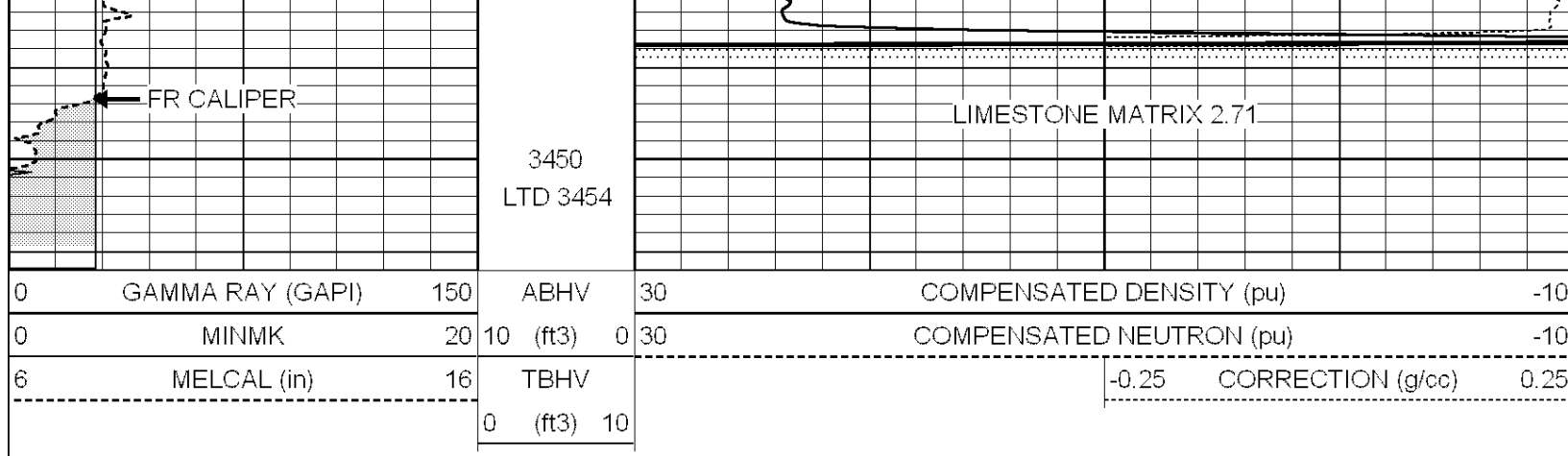
FR GR

FR CNPOR



Density Correction

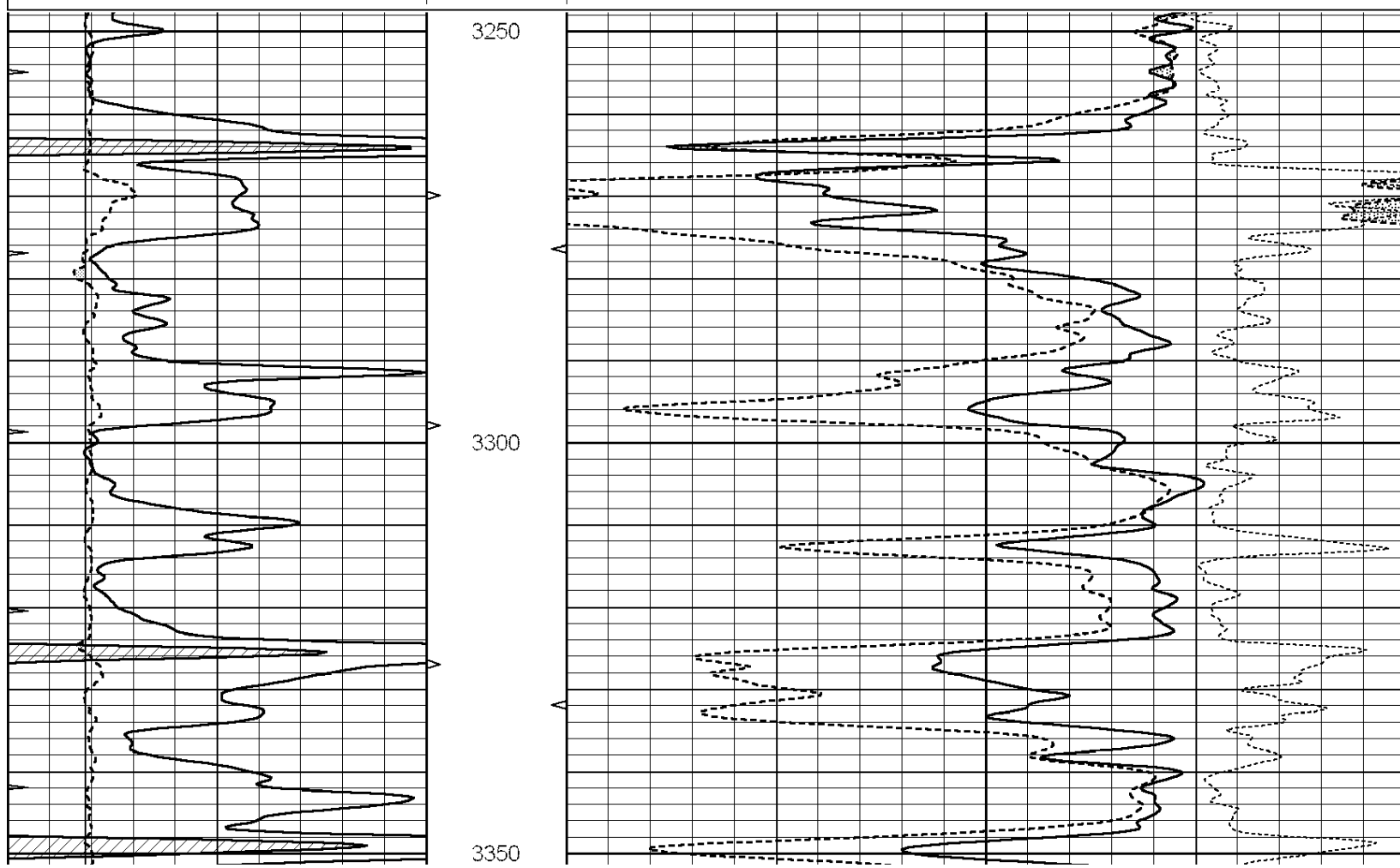
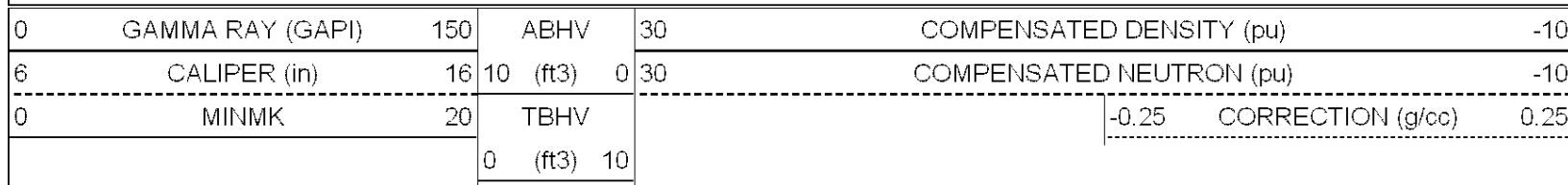
FR DCAL

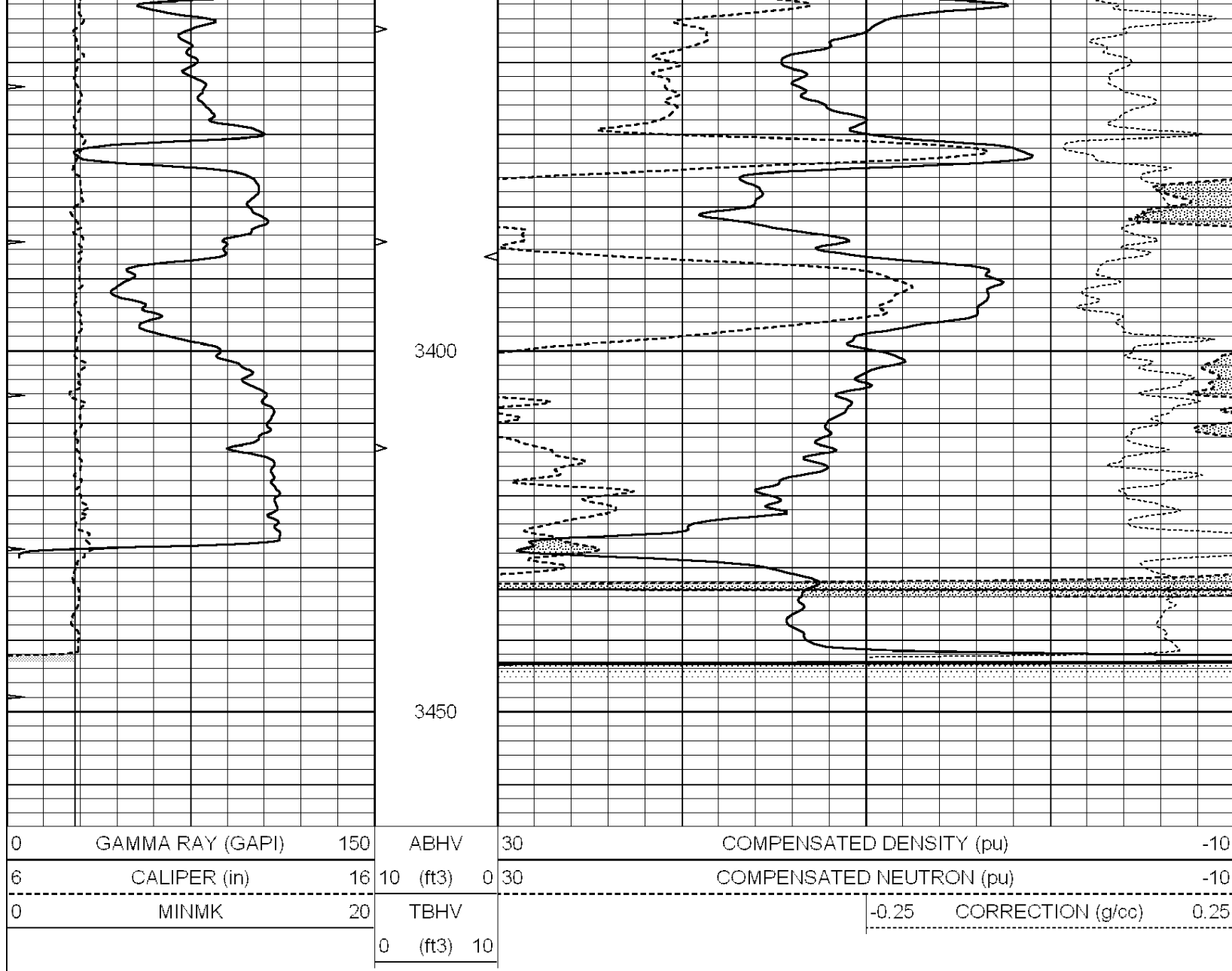


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# REPEAT SECTION

Database File: 23921ddn.db  
 Dataset Pathname: pass2.5  
 Presentation Format: \_den\_neu  
 Dataset Creation: Sun Mar 16 15:23:44 2014 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240





### Calibration Report

Database File: 23921ddn.db  
 Dataset Pathname: pass3.3.1  
 Dataset Creation: Sun Mar 16 17:56:34 2014

### Dual Induction Calibration Report

Serial-Model: DIL3-GEAR  
 Performed: Wed Mar 05 17:42:55 2014

| Readings  |       |       |   | References |         |        | Results |        |
|-----------|-------|-------|---|------------|---------|--------|---------|--------|
| Loop:     | Air   | Loop  |   | Air        | Loop    |        | m       | b      |
| Deep      | 0.011 | 0.656 | V | 0.000      | 400.000 | mmho/m | 500.000 | 4.000  |
| Medium    | 0.013 | 0.740 | V | 0.000      | 462.500 | mmho/m | 570.000 | 3.000  |
| Internal: | Zero  | Cal   |   | Zero       | Cal     |        | m       | b      |
| Deep      | 0.002 | 0.645 | V | 0.000      | 400.000 | mmho/m | 560.000 | -1.071 |
| Medium    | 0.007 | 0.740 | V | 0.000      | 462.500 | mmho/m | 540.000 | -4.000 |

### Compensated Density Calibration Report

Serial-Model: GEAR2-GEARHART

Master Calibration

|                     | Density |      | Far Detector                | Near Detector |     |
|---------------------|---------|------|-----------------------------|---------------|-----|
| Magnesium           | 1.710   | g/cc | 923.76                      | 475.45        | cps |
| Aluminum            | 2.580   | g/cc | 205.31                      | 331.69        | cps |
| Spine Angle = 76.54 |         |      | Density/Spine Ratio = 0.563 |               |     |
|                     | Size    |      | Reading                     |               |     |
| Small Ring          | 8.40    | in   | 3.59                        | V             |     |
| Large Ring          | 14.00   | in   | 5.47                        | V             |     |

Compensated Neutron Calibration Report

Serial Number: 080620  
Tool Model: Probe

PRE-SURVEY VERIFICATION

| Detector    | Readings | Measured | Target |
|-------------|----------|----------|--------|
| Short Space | cps      |          |        |
| Long Space  | cps      | pu       | pu     |

POST-SURVEY VERIFICATION

| Detector    | Readings | Measured | Target |
|-------------|----------|----------|--------|
| Short Space | cps      |          |        |
| Long Space  | cps      | pu       | pu     |

Gamma Ray Calibration Report

Serial Number: 7  
Tool Model: Probe1  
Performed: Tue Mar 04 10:47:15 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps  
Calibrator Reading: 1.0 cps

Sensitivity: 0.4500 GAPI/cps