



**SUPERIOR**  
**Hays,**  
**Kansas**

**MICRO**  
**LOG**

|                              |                           |                     |                                      |
|------------------------------|---------------------------|---------------------|--------------------------------------|
| Company                      | SHELBY RESOURCES, LLC     |                     |                                      |
| Well                         | CLARK #4-24               |                     |                                      |
| Field                        | SANFORD                   |                     |                                      |
| County                       | BARTON                    | State               | KANSAS                               |
| Location:                    | API # : 15-009-25486-0000 |                     | Other Services<br>CDL/CNL<br>DIL/SON |
| SEC 24 TWP 17S RGE 14W       |                           | Elevation           |                                      |
| Permanent Datum              | GROUND LEVEL              | Elevation           | 1916                                 |
| Log Measured From            | KELLY BUSHING 11' A.G.L.  | D.F.                | 1925                                 |
| Drilling Measured From       | KELLY BUSHING             | G.L.                | 1916                                 |
| Date                         | 11-19-10                  |                     |                                      |
| Run Number                   | TWO                       |                     |                                      |
| Depth Driller                | 3500                      |                     |                                      |
| Depth Logger                 | 3500                      |                     |                                      |
| Bottom Logged Interval       | 3482                      |                     |                                      |
| Top Log Interval             | 2800                      |                     |                                      |
| Casing Driller               | 905'                      |                     |                                      |
| Casing Logger                | 897'                      |                     |                                      |
| Bit Size                     | 7.875                     |                     |                                      |
| Type Fluid in Hole           | CHEMICAL MUD              |                     |                                      |
| Density / Viscosity          | 9.2 / 56                  | CHLORIDES 8,100 PPM |                                      |
| pH / Fluid Loss              | 8.0 / 11.2                |                     |                                      |
| Source of Sample             | FLOWLINE                  |                     |                                      |
| Rim @ Meas. Temp             | 0.55 @ 70F                |                     |                                      |
| Rmf @ Meas. Temp             | 0.41 @ 70F                |                     |                                      |
| Rmc @ Meas. Temp             | 0.66 @ 70F                |                     |                                      |
| Source of Rmf / Rmc          | MEASURED                  |                     |                                      |
| Rim @ BHT                    | 0.34 @ 112F               |                     |                                      |
| Time Circulation Stopped     | 2 HOURS                   |                     |                                      |
| Time Logger on Bottom        |                           |                     |                                      |
| Maximum Recorded Temperature | 112F                      |                     |                                      |
| Equipment Number             | 860                       |                     |                                      |
| Location                     | HAYS, KS.                 |                     |                                      |
| Recorded By                  | JEFF GRONEWEG             |                     |                                      |
| Witnessed By                 | CHARLIE STURDAVANT        |                     |                                      |

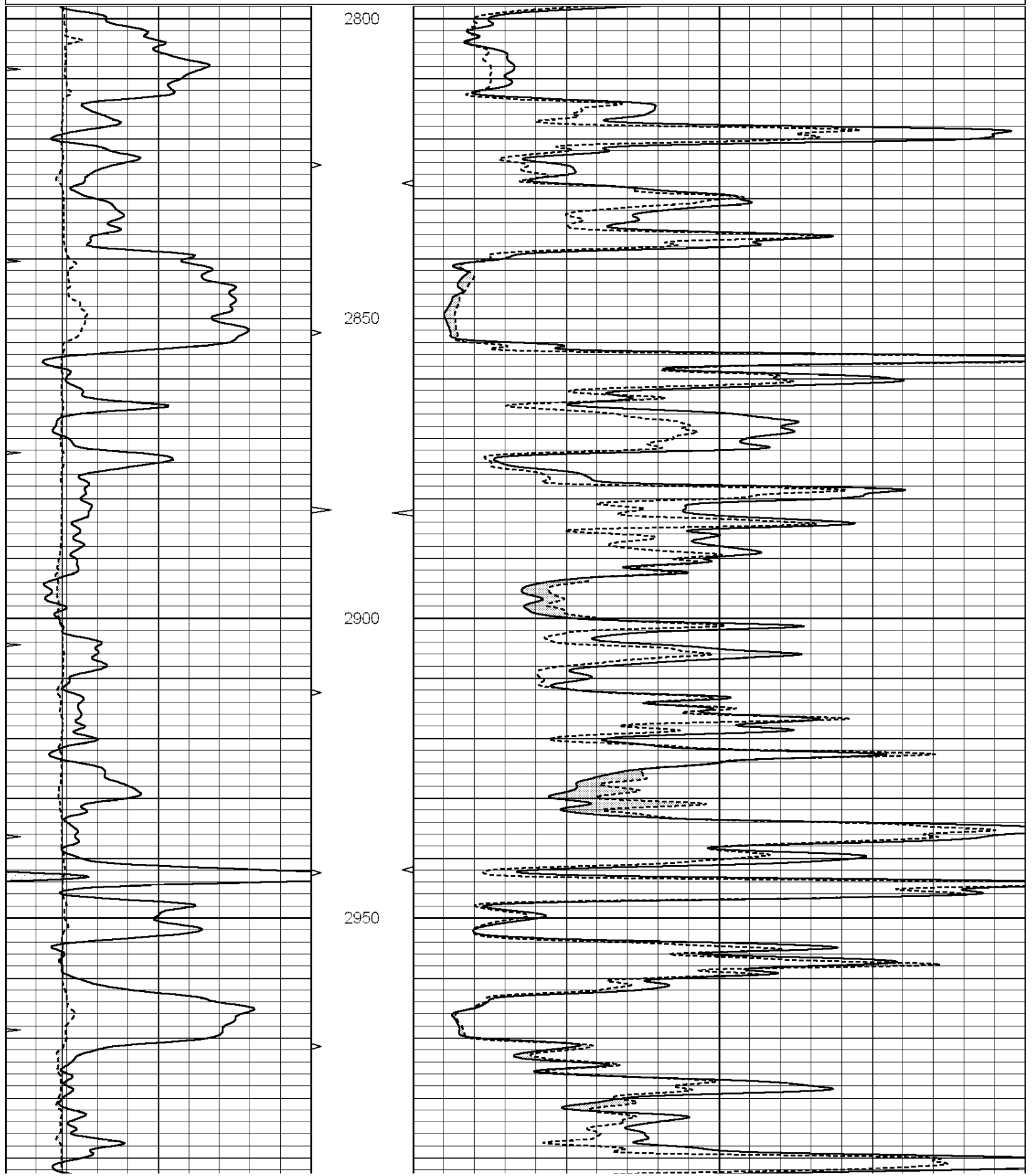
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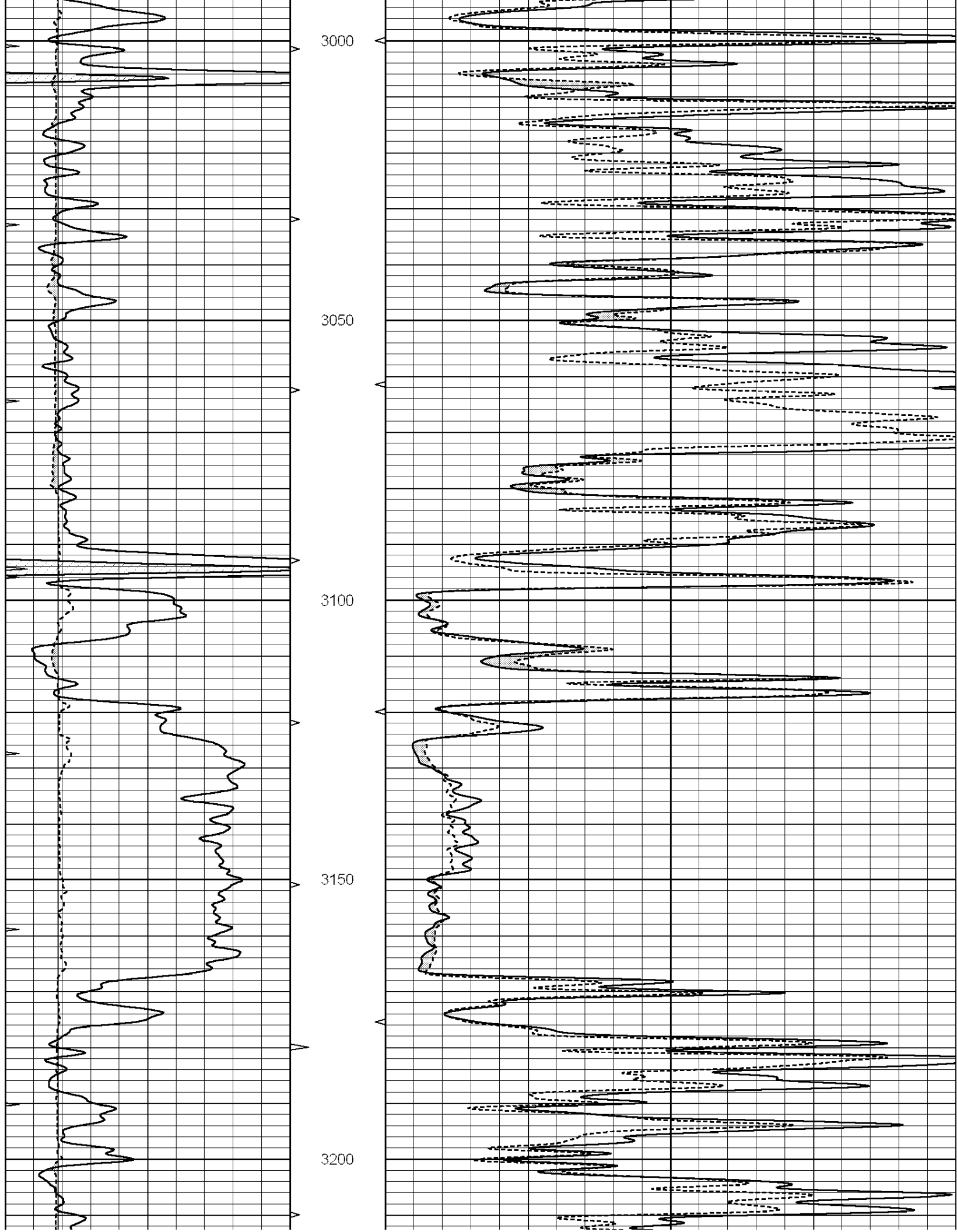
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

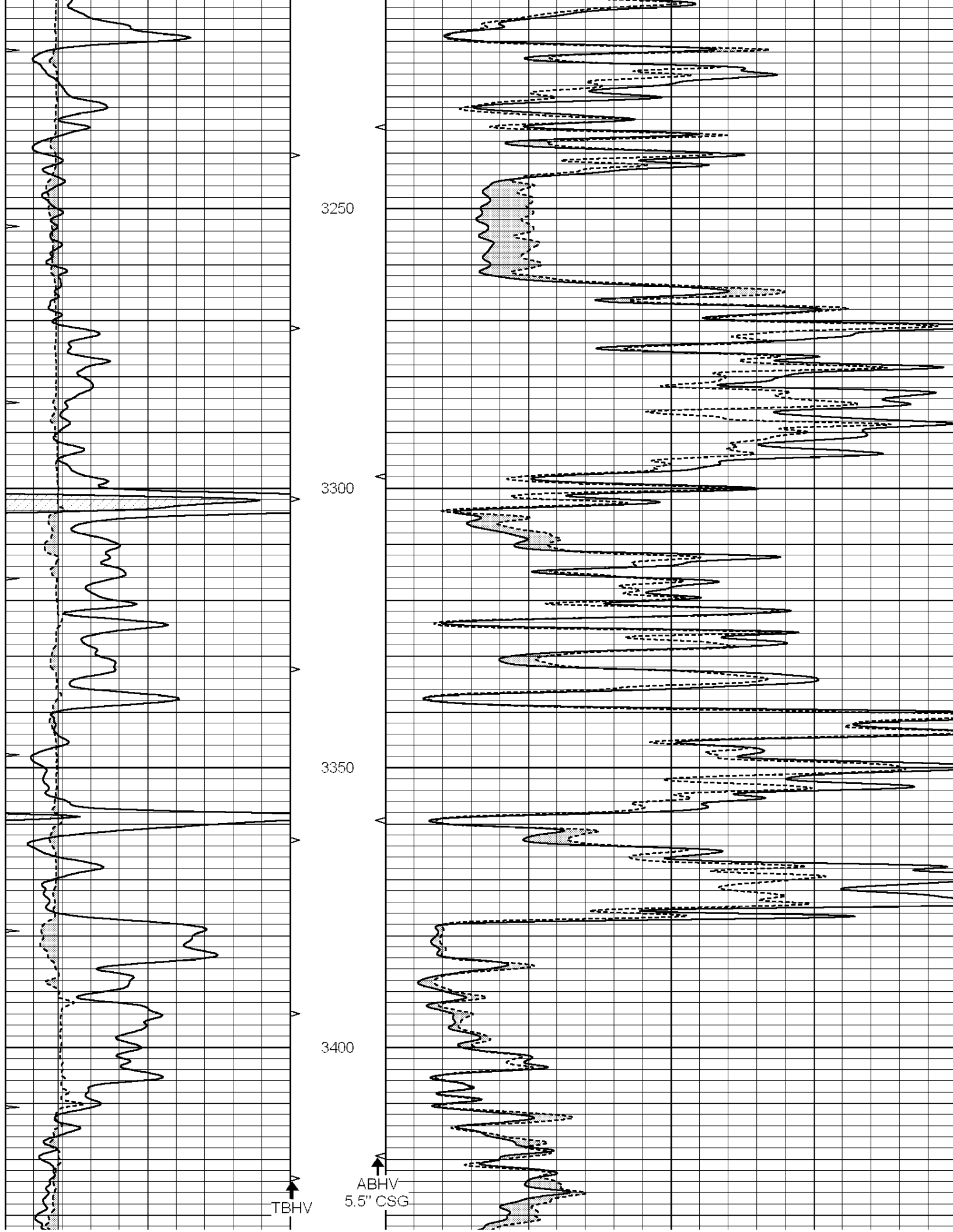
Comments

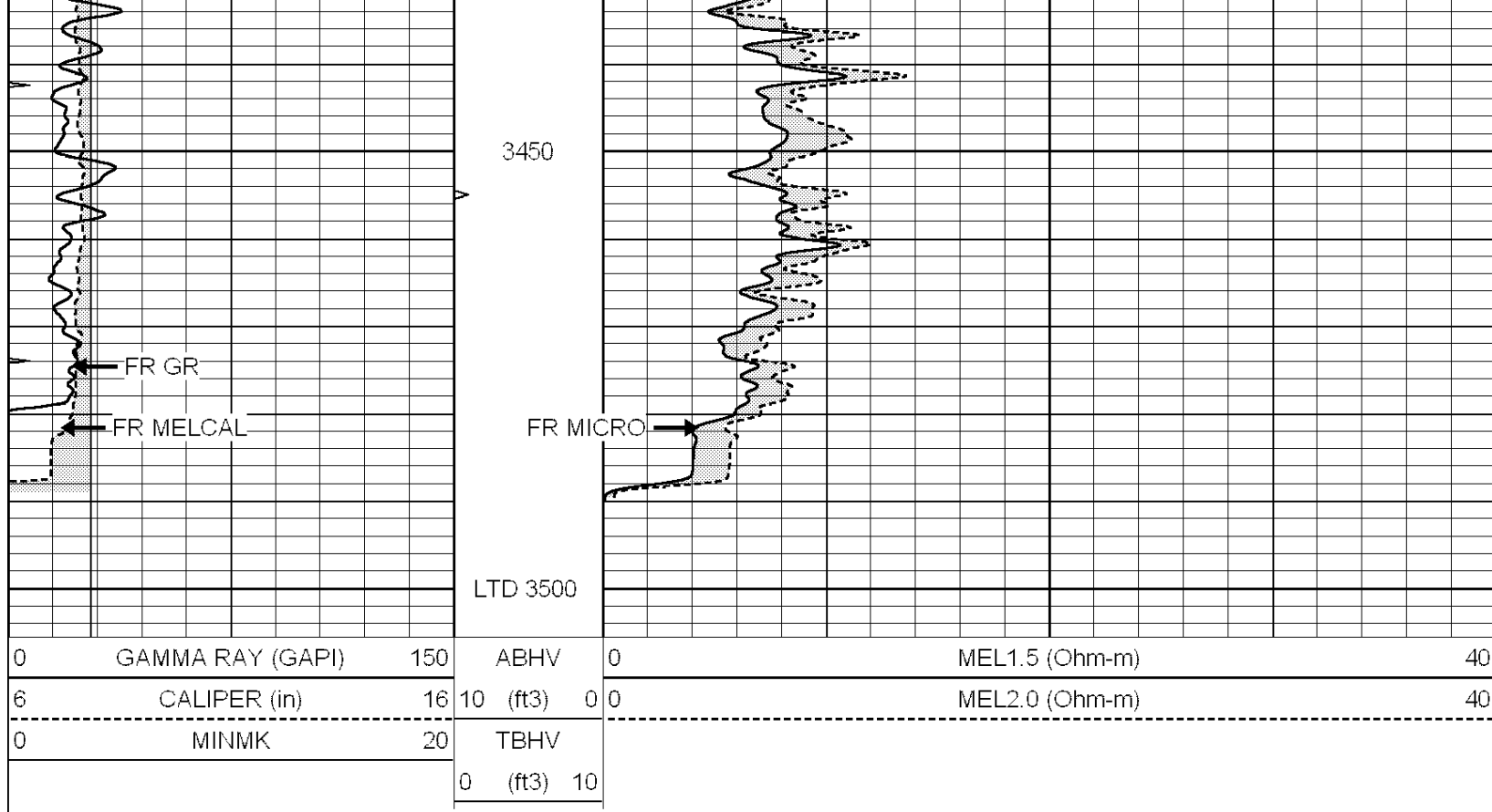
SUPERIOR WELL SERVICES  
785-628-6395  
THANK YOU FOR YOUR BUSINESS  
DIRECTIONS: INTERSECTION OF HWYS 4 & 281 - 1 MILE NORTH - 1 MILE EAST  
1/2 MILE NORTH - EAST INTO

|   |                  |     |          |     |                |    |
|---|------------------|-----|----------|-----|----------------|----|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV     | 0   | MEL1.5 (Ohm-m) | 40 |
| 6 | CALIPER (in)     | 16  | 10 (ft3) | 0 0 | MEL2.0 (Ohm-m) | 40 |
| 0 | MINMK            | 20  | TBHV     |     |                |    |
|   |                  |     | 0 (ft3)  | 10  |                |    |







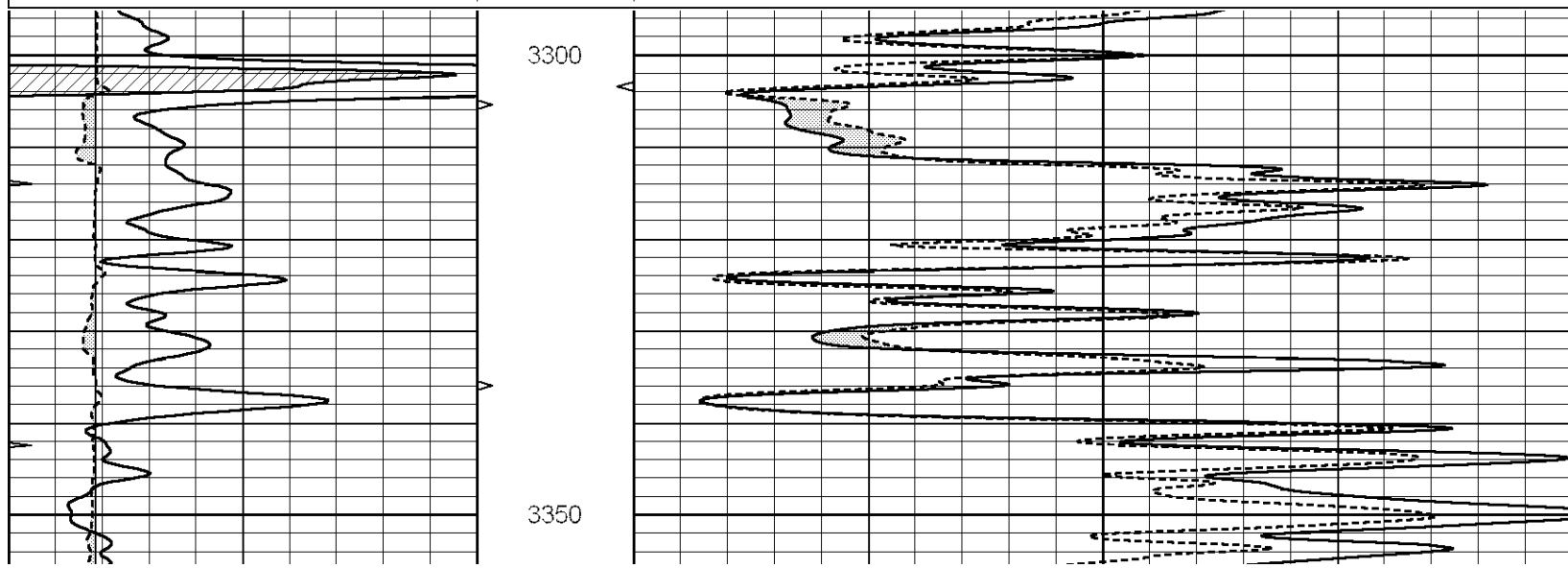


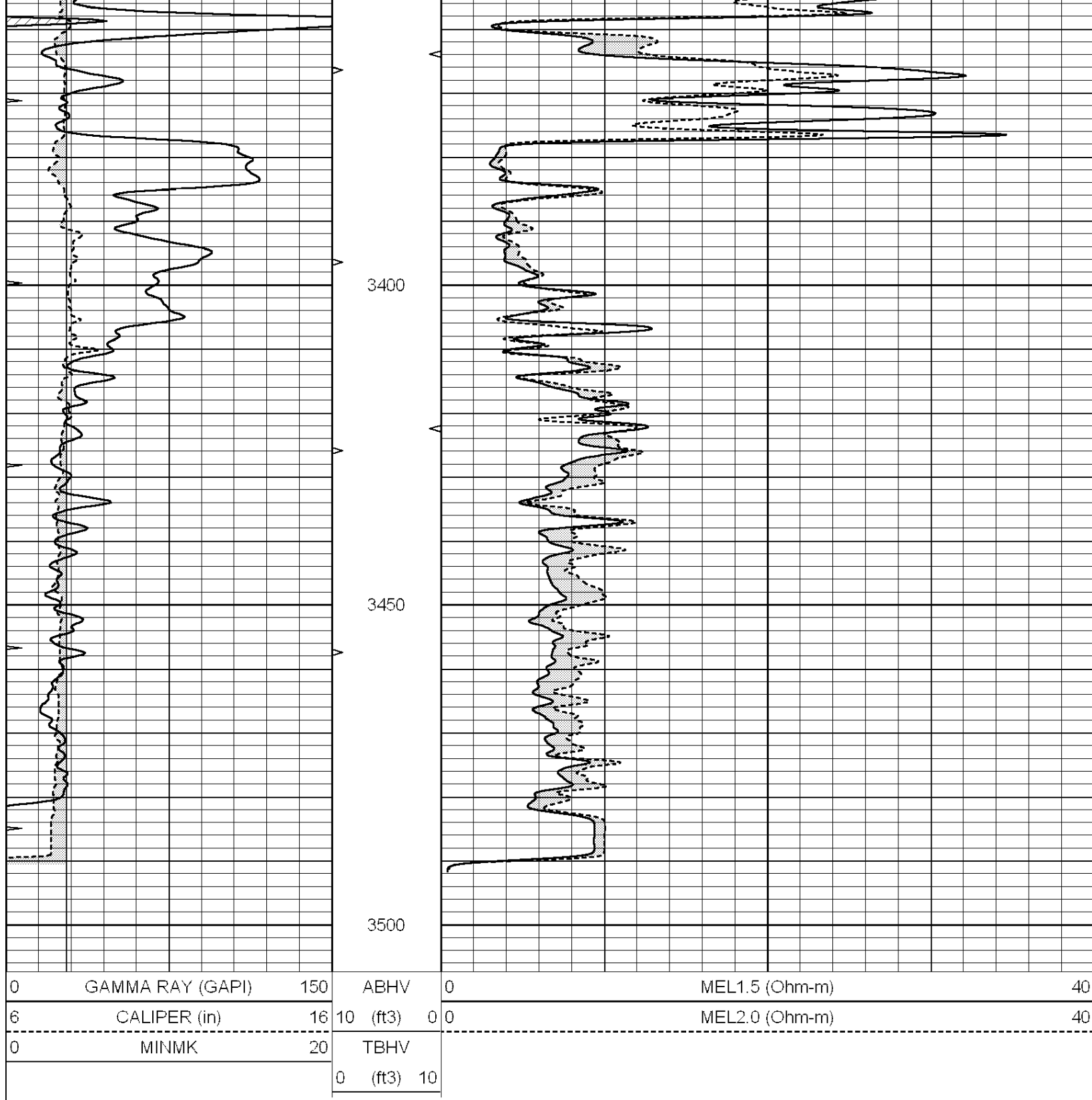
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# REPEAT SECTION

Database File: 005922ddn.db  
 Dataset Pathname: pass5.1  
 Presentation Format: micro  
 Dataset Creation: Fri Nov 19 10:11:21 2010 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

|   |                  |     |          |    |                |    |
|---|------------------|-----|----------|----|----------------|----|
| 0 | GAMMA RAY (GAPI) | 150 | ABHV     | 0  | MEL1.5 (Ohm-m) | 40 |
| 6 | CALIPER (in)     | 16  | 10 (ft3) | 0  | MEL2.0 (Ohm-m) | 40 |
| 0 | MINMK            | 20  | TBHV     |    |                |    |
|   |                  |     | 0 (ft3)  | 10 |                |    |





### Calibration Report

Database File: 005922ddn.db  
Dataset Pathname: pass6.2  
Dataset Creation: Fri Nov 19 10:36:58 2010 by Calc Open-Cased 090629

### MICRO Calibration Report

Serial Number: Micro1  
Tool Model: Probel  
Performed: Mon Nov 08 09:18:25 2010

Caliper Calibration: Gain=3.171 Offset=-2.141

|                              |                          |                    |
|------------------------------|--------------------------|--------------------|
| References                   | Low Cal<br>6.300         | High Cal<br>12.000 |
| Readings                     | 2.662                    | 4.459              |
| 1.5" Calibration:            | Gain=40.000              | Offset=0.100       |
| References                   | Low Cal<br>0.000         | High Cal<br>20.000 |
| Readings                     | 0.003                    | 0.844              |
| 2" Calibration:              | Gain=35.000              | Offset=0.500       |
| References                   | Low Cal<br>0.000         | High Cal<br>20.000 |
| Readings                     | 0.028                    | 0.817              |
| Gamma Ray Calibration Report |                          |                    |
| Serial Number:               | GR5                      |                    |
| Tool Model:                  | OPEN                     |                    |
| Performed:                   | Wed Nov 17 15:01:06 2010 |                    |
| Calibrator Value:            | 1.0                      | GAPI               |
| Background Reading:          | 0.0                      | cps                |
| Calibrator Reading:          | 1.0                      | cps                |
| Sensitivity:                 | 0.6000                   | GAPI/cps           |