



# NABORS

**COMPLETION  
& PRODUCTION  
SERVICES CO.**

**MICRO  
LOG**

|                                                                |              |                                                                         |  |
|----------------------------------------------------------------|--------------|-------------------------------------------------------------------------|--|
| Company                                                        |              | DOUBLE D'S, LLC.                                                        |  |
| Well                                                           |              | YOUNGER #1                                                              |  |
| Field                                                          |              | IRVIN                                                                   |  |
| County                                                         |              | ELLIS                                                                   |  |
| State                                                          |              | KANSAS                                                                  |  |
| Location:                                                      |              | API # : 15-051-26386-00-00<br>1040' FNL & 330' FWL<br>S2 - SW - NW - NW |  |
| SEC 25 TWP 13S RGE 20W                                         |              | Other Services<br>CDL/CNL<br>DIL<br>SONIC                               |  |
| Permanent Datum<br>Log Measured From<br>Drilling Measured From |              | GROUND LEVEL Elevation 2125<br>KELLY BUSHING 6' A.G.L.<br>KELLY BUSHING |  |
| Date                                                           | 11/15/12     |                                                                         |  |
| Run Number                                                     | ONE          |                                                                         |  |
| Depth Driller                                                  | 3850         |                                                                         |  |
| Depth Logger                                                   | 3850         |                                                                         |  |
| Bottom Logged Interval                                         | 3832         |                                                                         |  |
| Top Log Interval                                               | 3000         |                                                                         |  |
| Casing Driller                                                 | 8 5/8" @ 220 |                                                                         |  |
| Casing Logger                                                  | 218          |                                                                         |  |
| Bit Size                                                       | 7 7/8        |                                                                         |  |
| Type Fluid in Hole                                             | CHEMICAL MUD | CHLORIDES 10,000 PPM                                                    |  |
| Density / Viscosity                                            | 9.3/48       |                                                                         |  |
| pH / Fluid Loss                                                | 9.5/10.2     |                                                                         |  |
| Source of Sample                                               | FLOWLINE     |                                                                         |  |
| Rim @ Meas. Temp                                               | 0.45 @ 91F   |                                                                         |  |
| Rmf @ Meas. Temp                                               | 0.34 @ 91F   |                                                                         |  |
| Rmc @ Meas. Temp                                               | 0.54 @ 91F   |                                                                         |  |
| Source of Rmf / Rmc                                            | MEASURED     |                                                                         |  |
| Rim @ BHT                                                      | 0.36 @ 114F  |                                                                         |  |
| Time Circulation Stopped                                       | 2 HOURS      |                                                                         |  |
| Time Logger on Bottom                                          |              |                                                                         |  |
| Maximum Recorded Temperature                                   | 114F         |                                                                         |  |
| Equipment Number                                               | 680          |                                                                         |  |
| Location                                                       | HAYS, KS.    |                                                                         |  |
| Recorded By                                                    | IAN MABB     | JEFF GRONIEWEG                                                          |  |
| Witnessed By                                                   | AL DOWNING   |                                                                         |  |

<<< Fold Here >>>

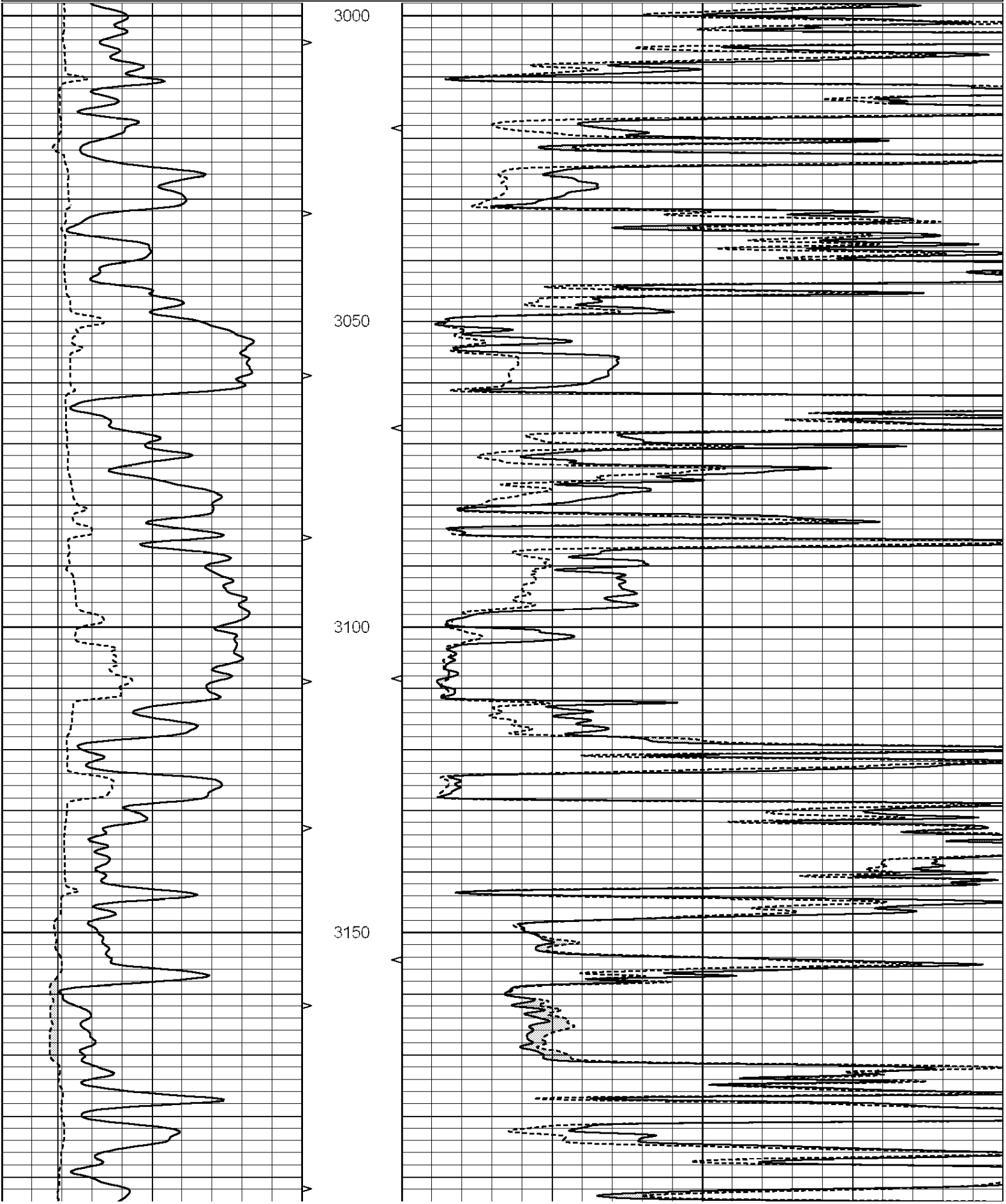
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

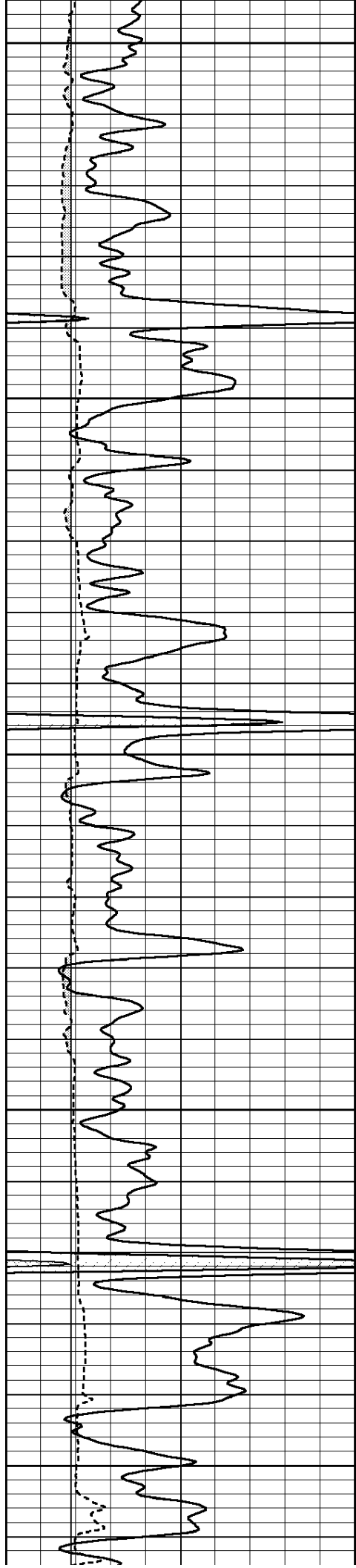
## Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395  
DIRECTIONS  
YOCEMENTO, KS. - 4 1/2 WEST ON HWY 40, 2 1/2 SOUTH ON 150 TH EAST INTO

Database File: 010129ddn.db  
Dataset Pathname: pass7.1  
Presentation Format: \_micro  
Dataset Creation: Thu Nov 15 11:04:26 2012 by Calc Open-Cased 090629  
Charted by: Depth in Feet scaled 1:240

|             |                  |                             |          |     |                |    |
|-------------|------------------|-----------------------------|----------|-----|----------------|----|
| Charted by: |                  | Depth in Feet scaled 1:2.10 |          |     |                |    |
| 0           | GAMMA RAY (GAPI) | 150                         | ABHV     | 0   | MEL1.5 (Ohm-m) | 20 |
| 6           | CALIPER (in)     | 16                          | 10 (ft3) | 0 0 | MEL2.0 (Ohm-m) | 20 |
|             |                  | TBHV                        |          |     |                |    |
|             |                  | 0 (ft3)                     |          |     |                |    |
|             |                  | 10                          |          |     |                |    |





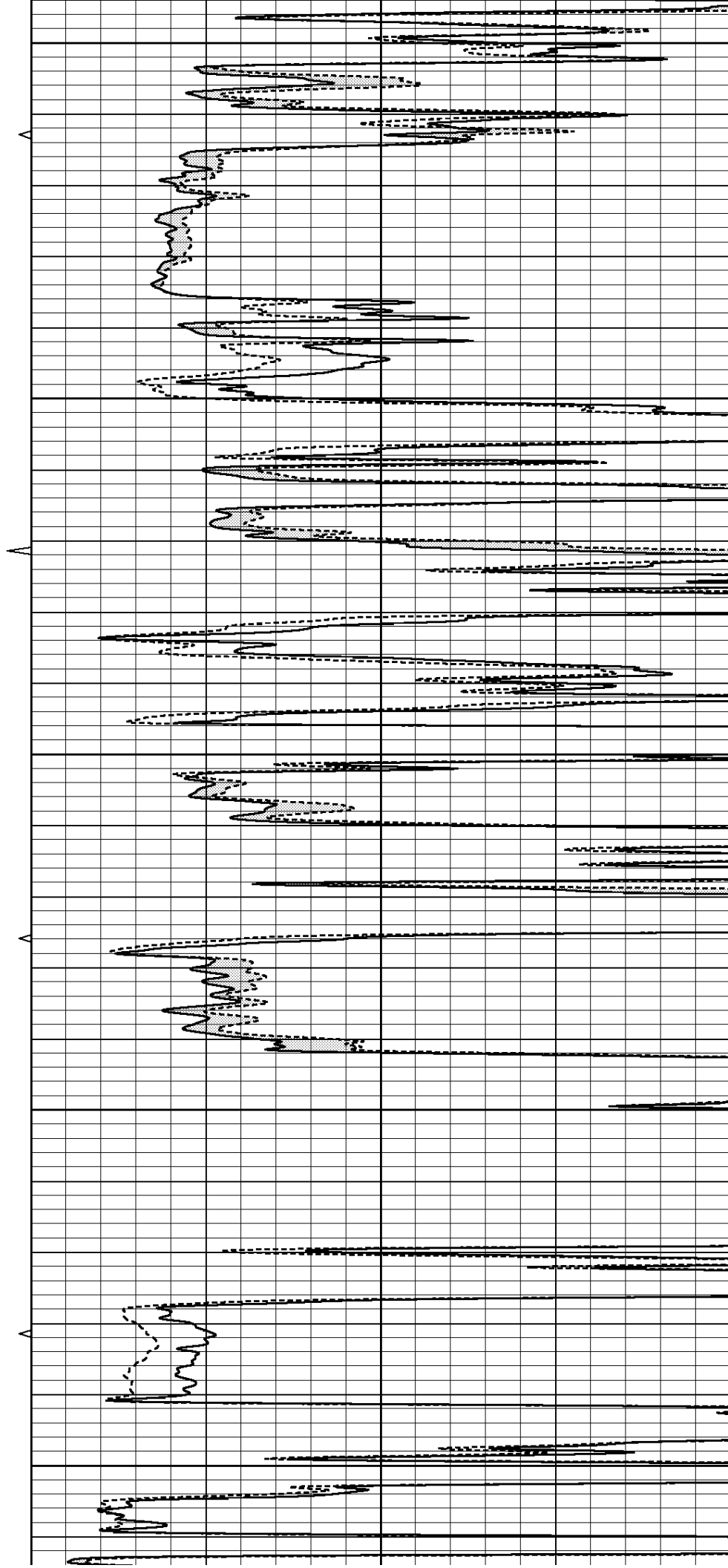
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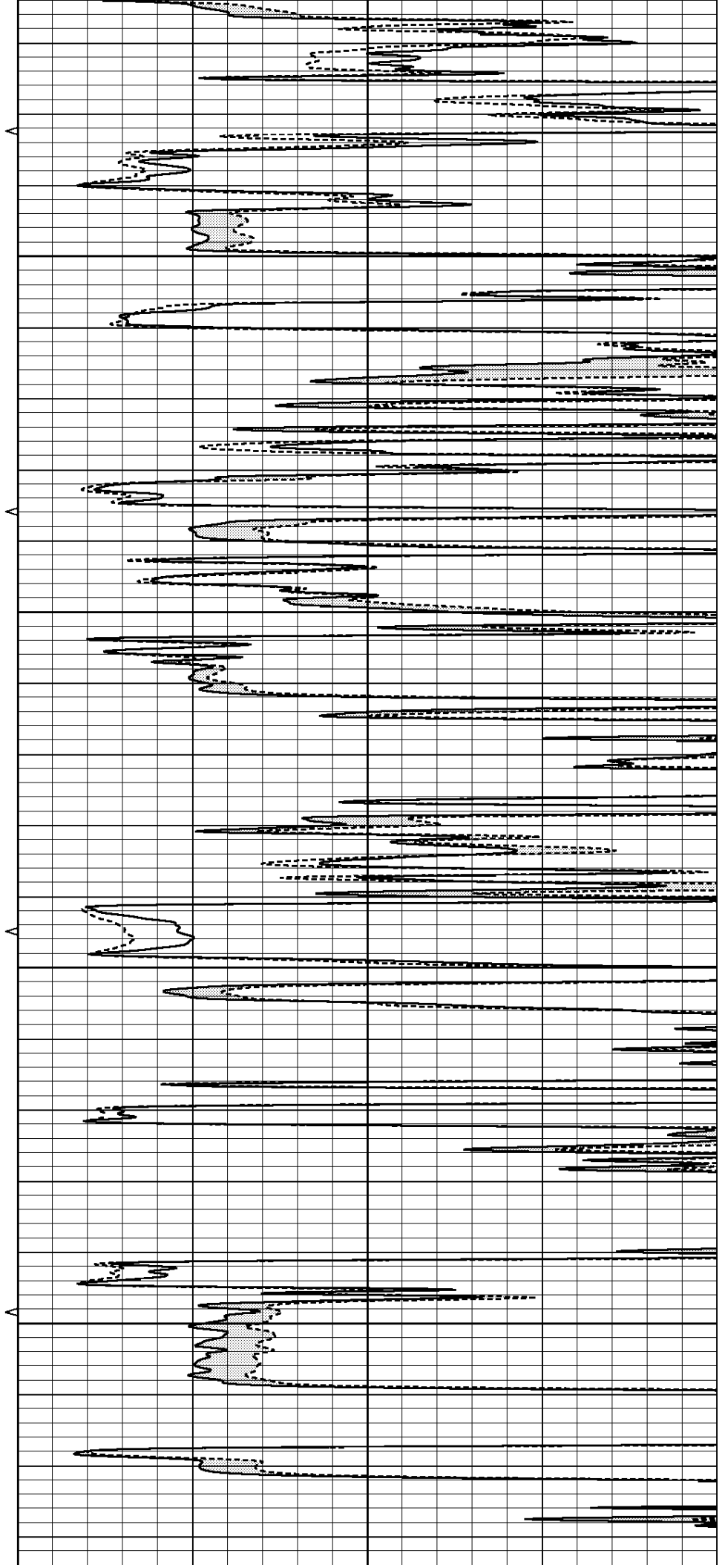
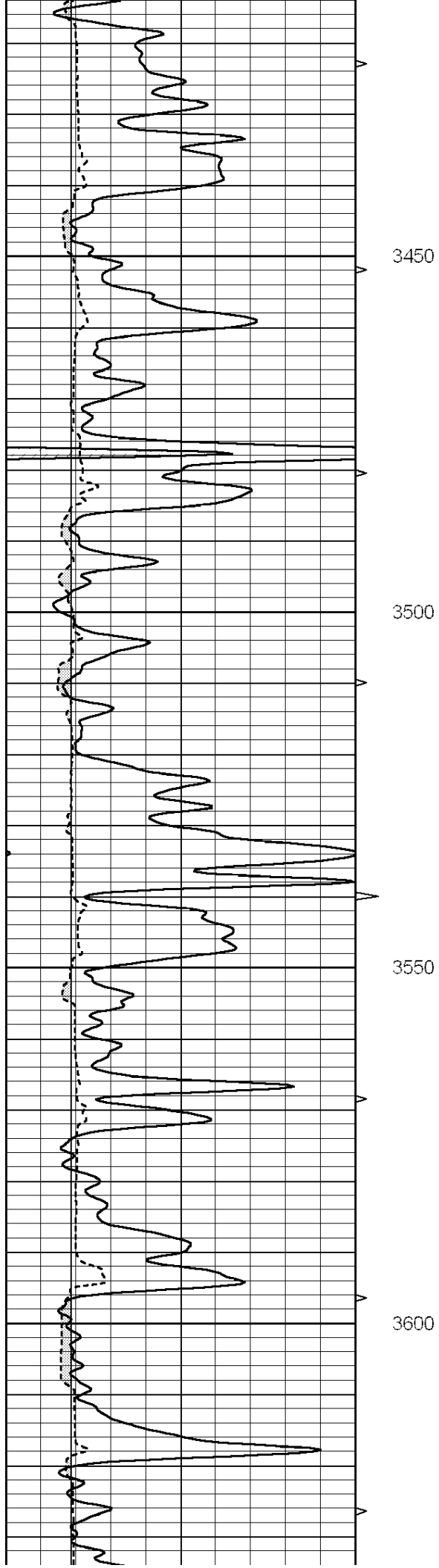
3250

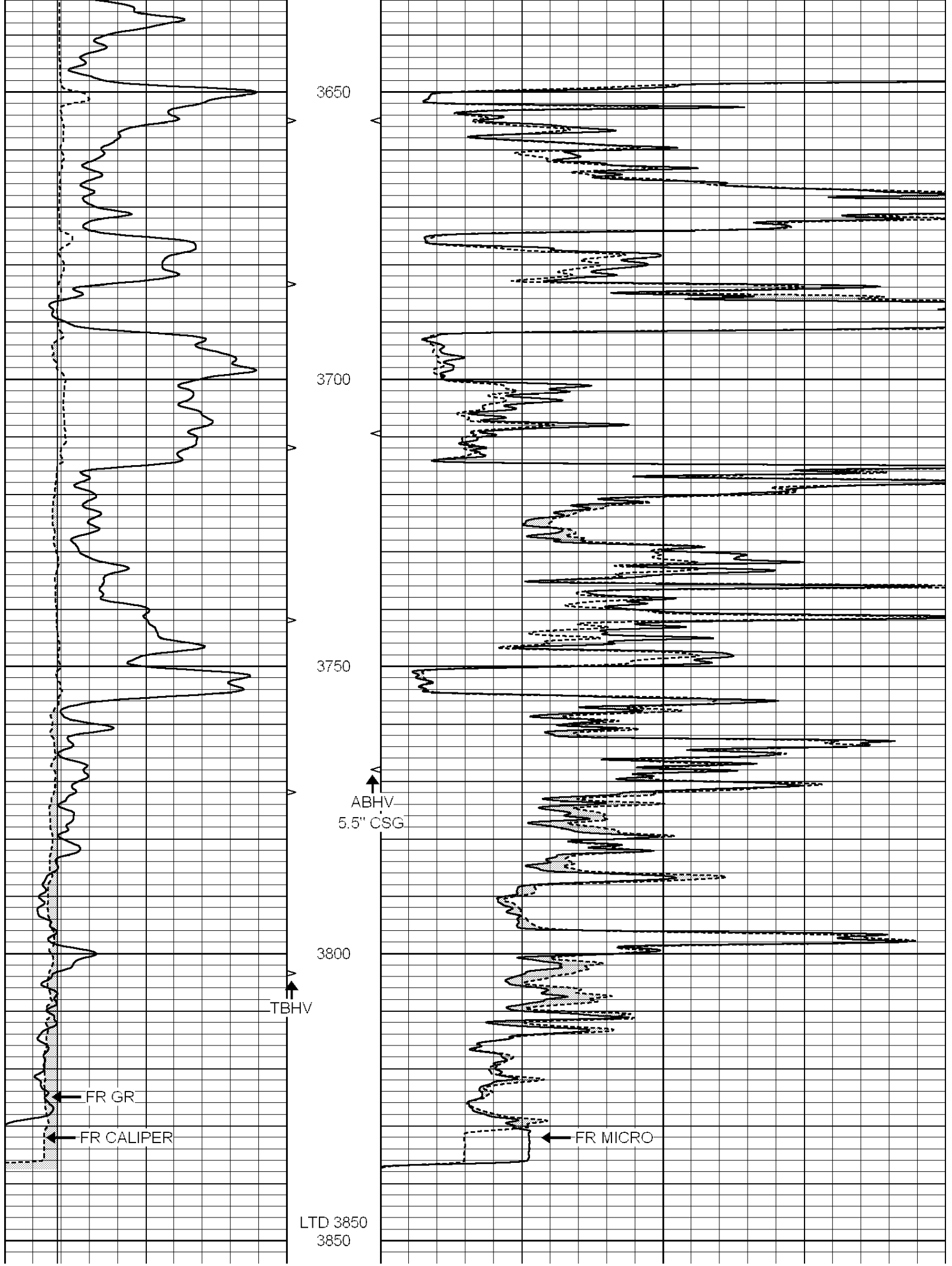
3300

3350

3400







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



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REPEAT SECTION

Database File:

010129ddn.db

Dataset Pathname:

pass6.3

Presentation Format:

\_micro

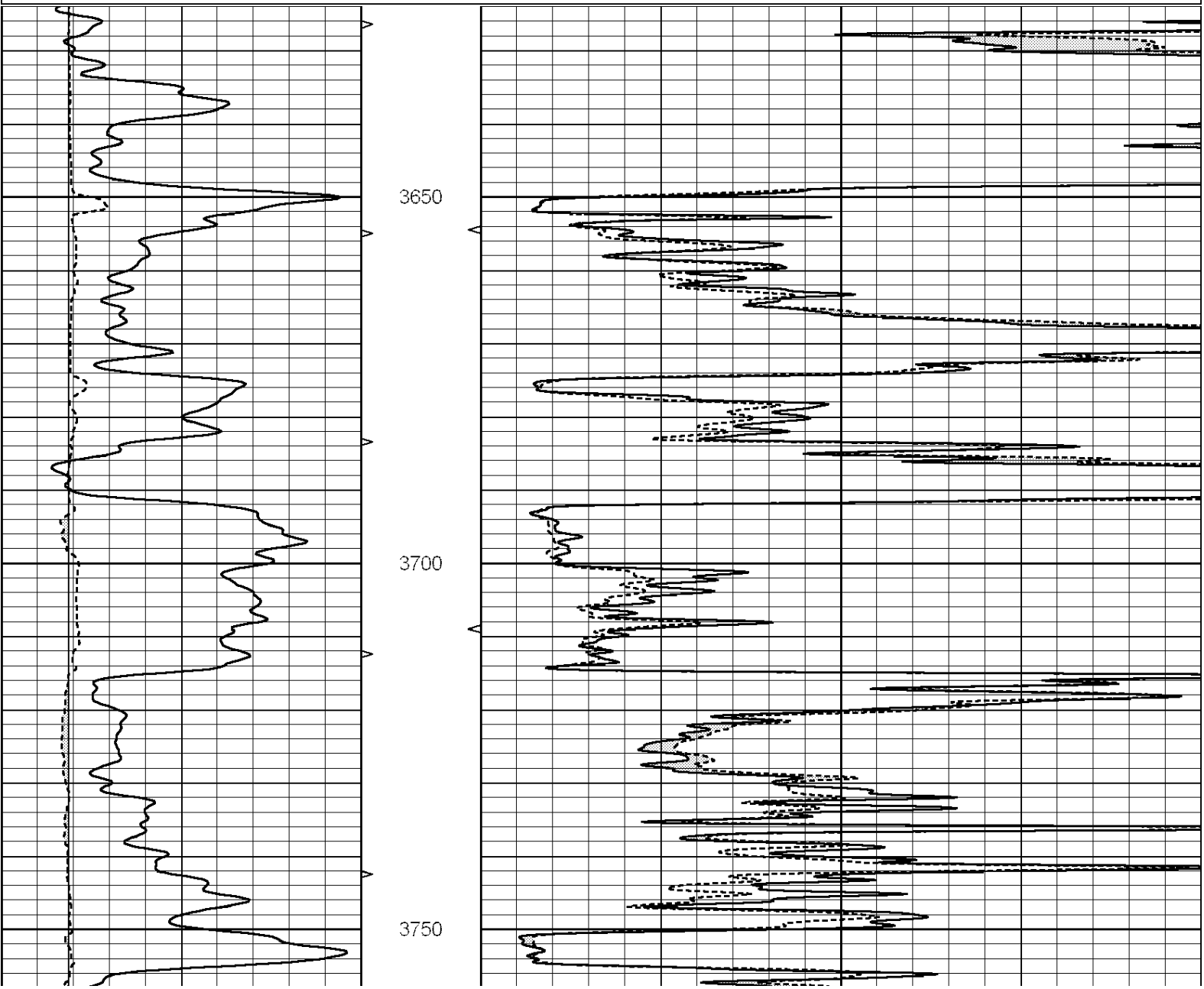
Dataset Creation:

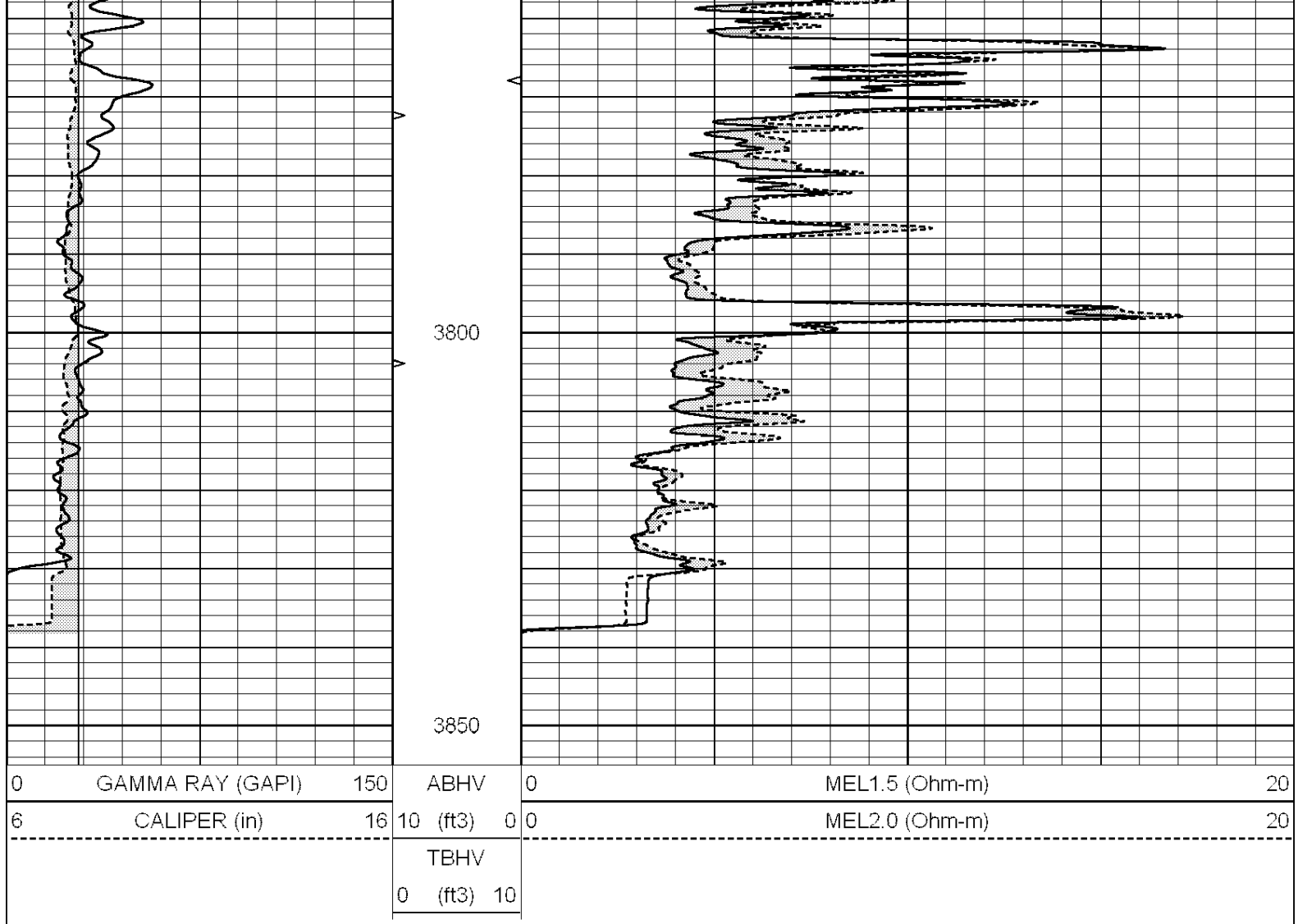
Thu Nov 15 10:36:42 2012 by Calc Open-Cased 090629

Charted by:

Depth in Feet scaled 1:240

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





| Calibration Report           |                                                    |               |  |
|------------------------------|----------------------------------------------------|---------------|--|
| Database File:               | 010129ddn.db                                       |               |  |
| Dataset Pathname:            | pass7.1                                            |               |  |
| Dataset Creation:            | Thu Nov 15 11:04:26 2012 by Calc Open-Cased 090629 |               |  |
| MICRO Calibration Report     |                                                    |               |  |
| Serial Number:               | MICRO6                                             |               |  |
| Tool Model:                  | PROBE                                              |               |  |
| Performed:                   | Fri Nov 02 22:18:25 2012                           |               |  |
| Caliper Calibration:         | Gain=5.542                                         | Offset=-0.200 |  |
|                              | Low Cal                                            | High Cal      |  |
| References                   | 8.000                                              | 14.000        |  |
| Readings                     | 1.431                                              | 2.513         |  |
| 1.5" Calibration:            | Gain=40.075                                        | Offset=-0.200 |  |
|                              | Low Cal                                            | High Cal      |  |
| References                   | 0.000                                              | 20.000        |  |
| Readings                     | 0.004                                              | 1.196         |  |
| 2" Calibration:              | Gain=35.041                                        | Offset=0.000  |  |
|                              | Low Cal                                            | High Cal      |  |
| References                   | 0.000                                              | 20.000        |  |
| Readings                     | 0.006                                              | 0.913         |  |
| 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 |
|--------------|--------|----------|