



**COMPLETION  
& PRODUCTION  
SERVICES CO.**

**MICRO  
LOG**

Company RL INVESTMENT, LLC.  
Well HANNA #2-18  
Field GURK  
County GRAHAM  
State KANSAS

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Location: API # : 15-065-24047-0000  
990' FNL & 1650' FEL  
SEC 18 TWP 10S RGE 25W  
Permanent Datum GROUND LEVEL Elevation 2553  
Log Measured From KELLY BUSHING 8' A.G.L.  
Drilling Measured From KELLY BUSHING  
Other Services  
CDL/CNL  
DIL  
Elevation  
K.B. 2561  
D.F. 2559  
G.L. 2553

Date	6/11/14
Run Number	TWO
Depth Driller	4100
Depth Logger	4099
Bottom Logged Interval	4097
Top Log Interval	3450
Casing Driller	8 5/8" @ 220
Casing Logger	218
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/65
pH / Fluid Loss	10.5/8.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.80 @ 92F
Rmt @ Meas. Temp	.60 @ 92F
Rmc @ Meas. Temp	.96 @ 94F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.63 @ 117F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	117F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
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**

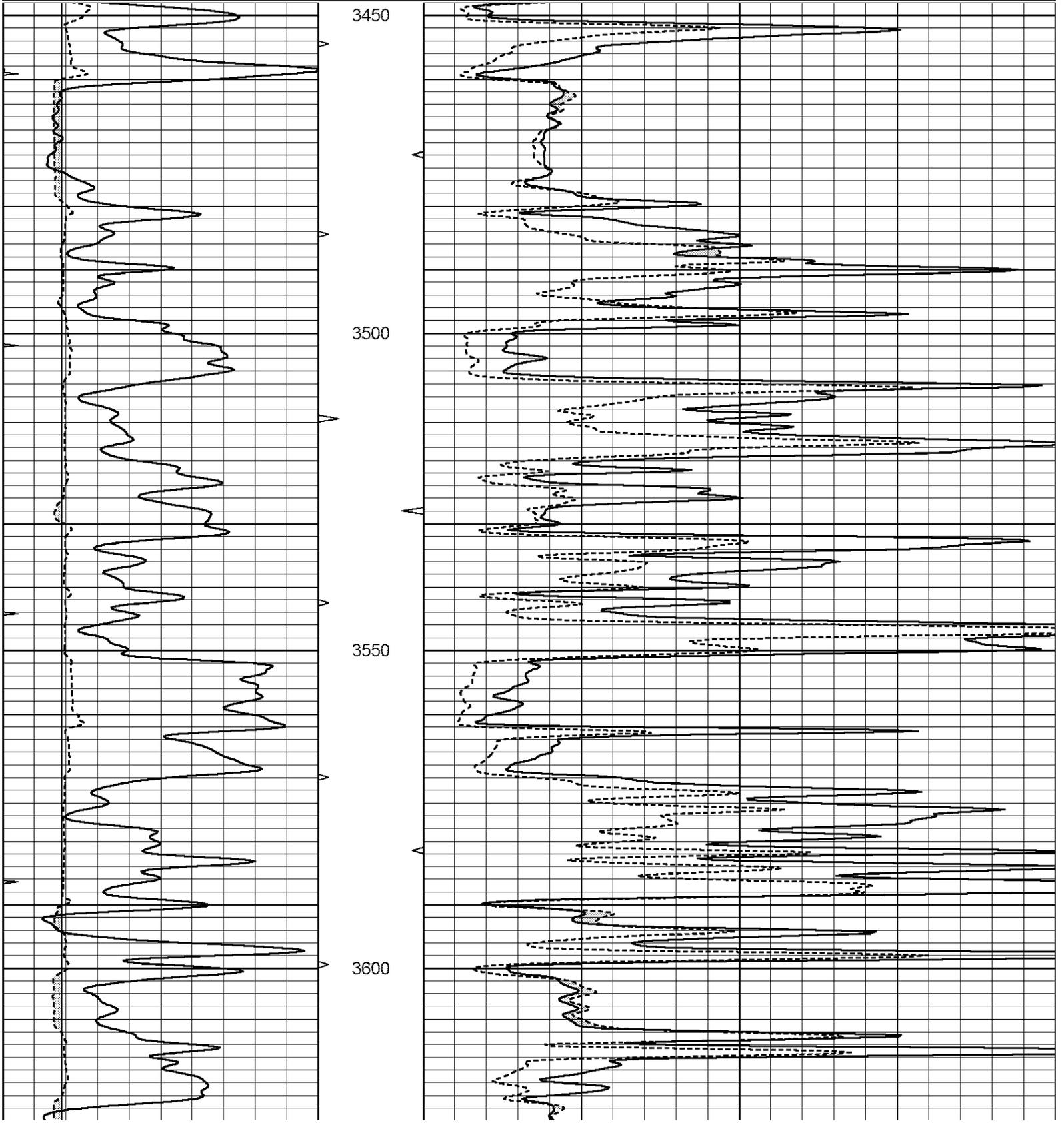
THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395  
DIRECTIONS:  
ST. PETER, KS. - NORTH EDGE TO RD. E - 3 WEST - SOUTH INTO

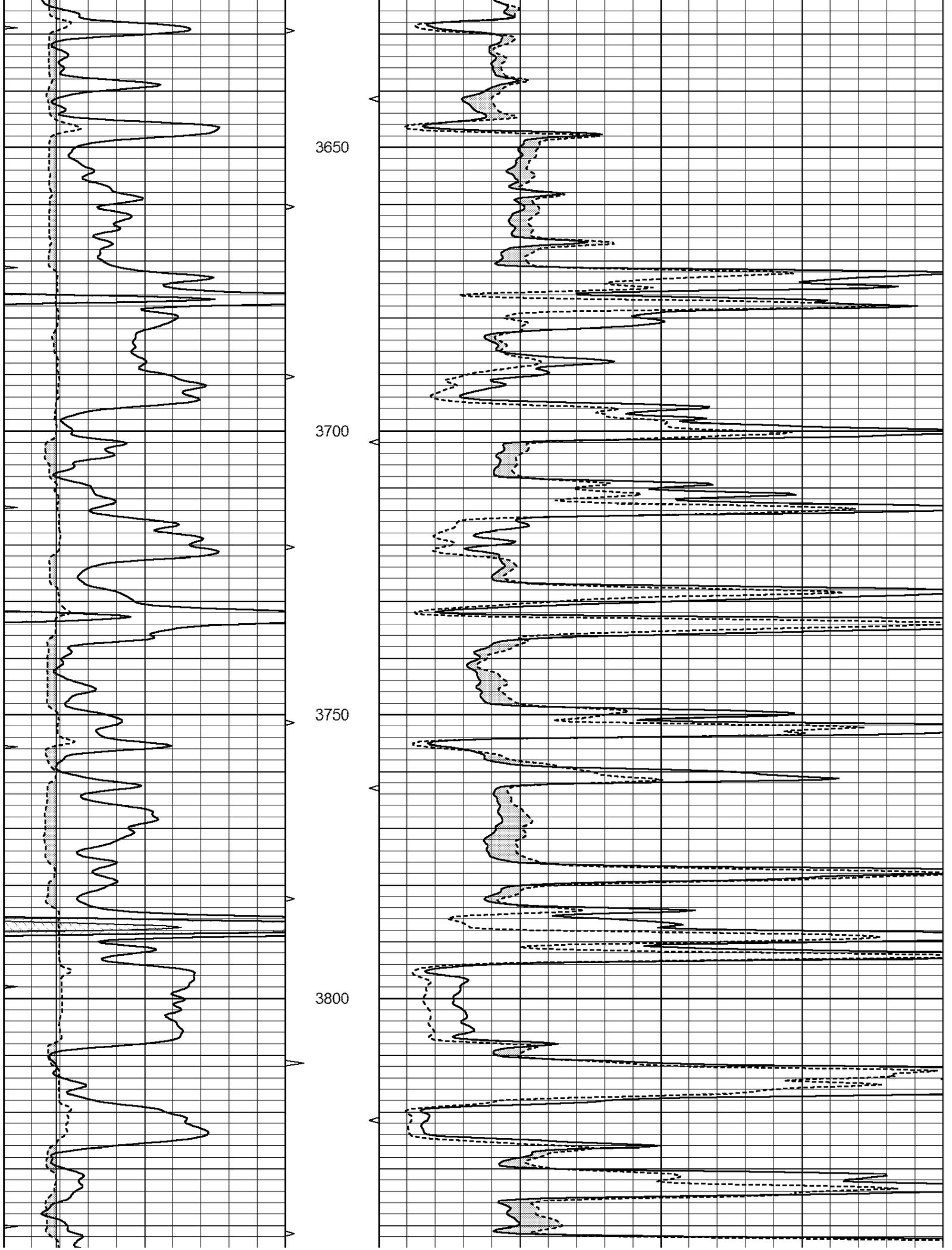


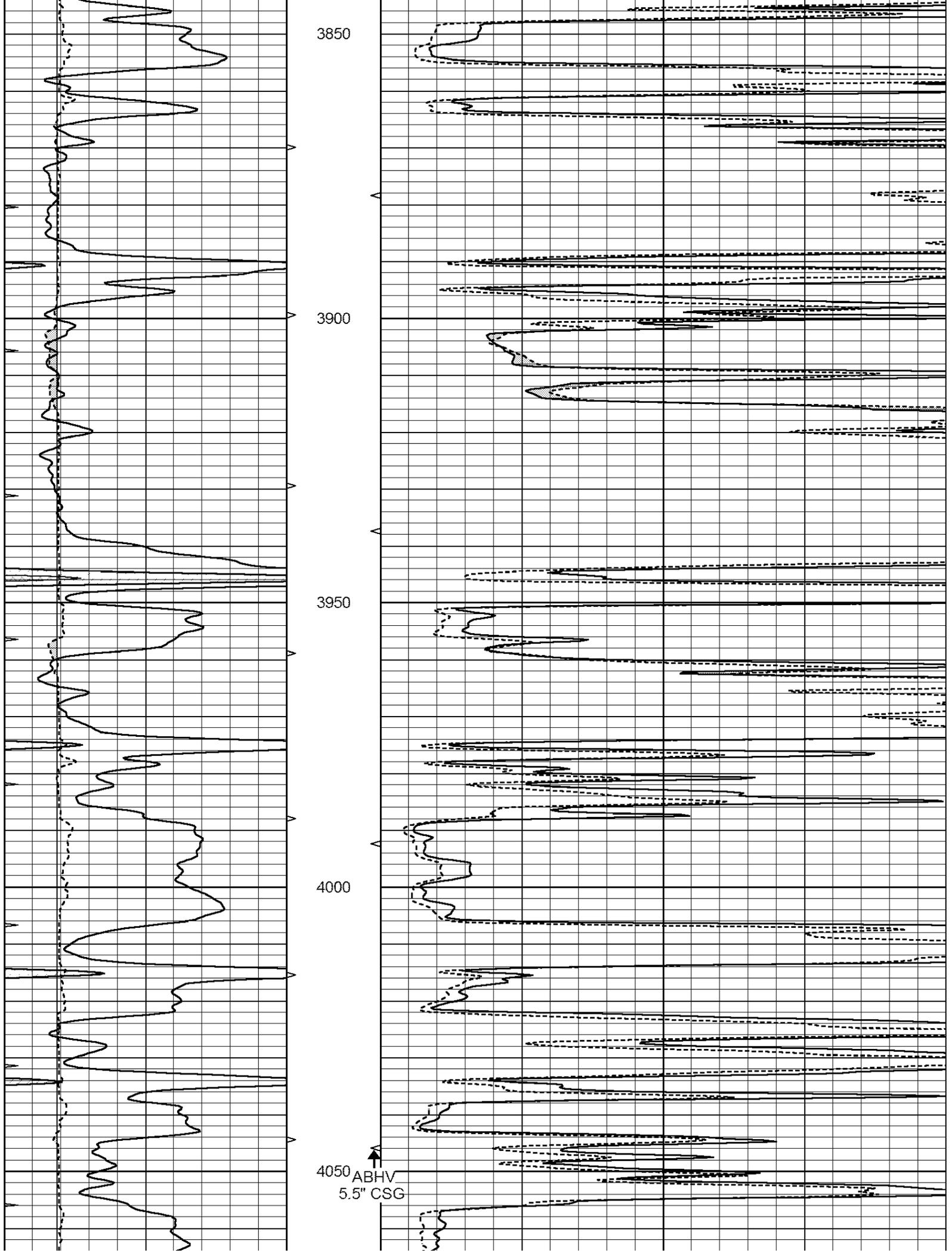
**MAIN SECTION**

Database File: 24633ddn.db  
 Dataset Pathname: pass6.1  
 Presentation Format: \_micro  
 Dataset Creation: Thu Jun 12 00:26:11 2014 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		







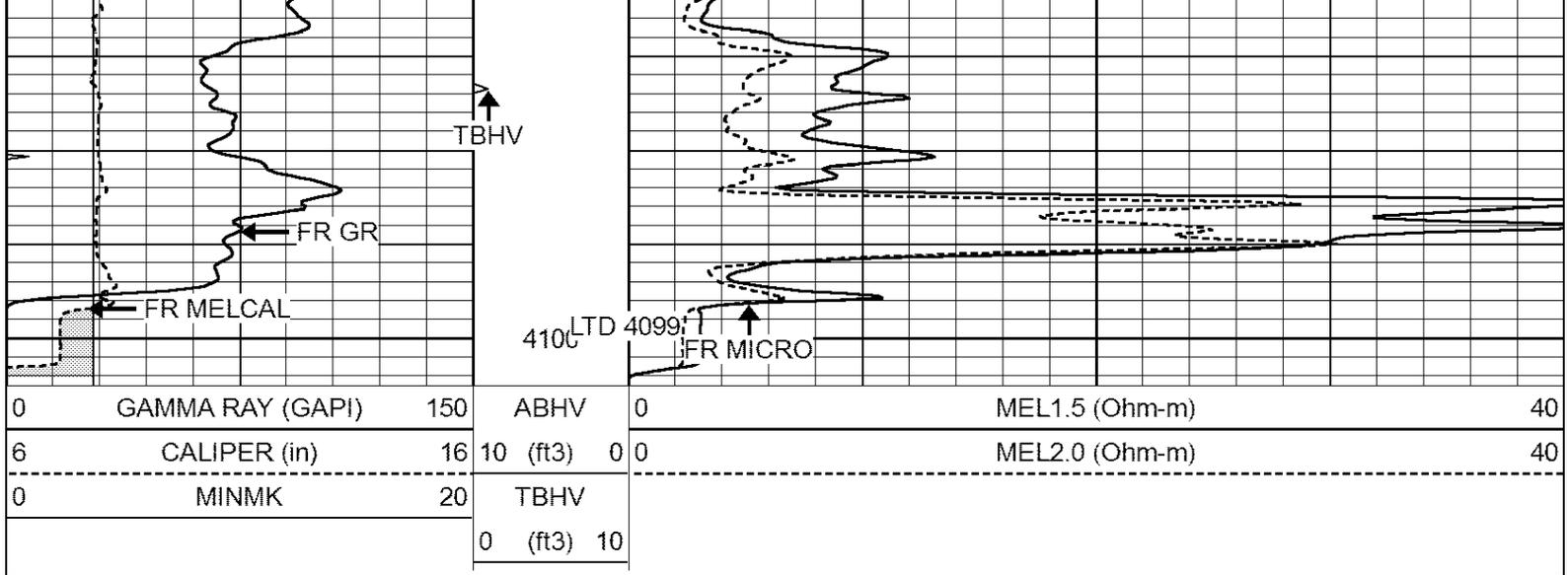
3850

3900

3950

4000

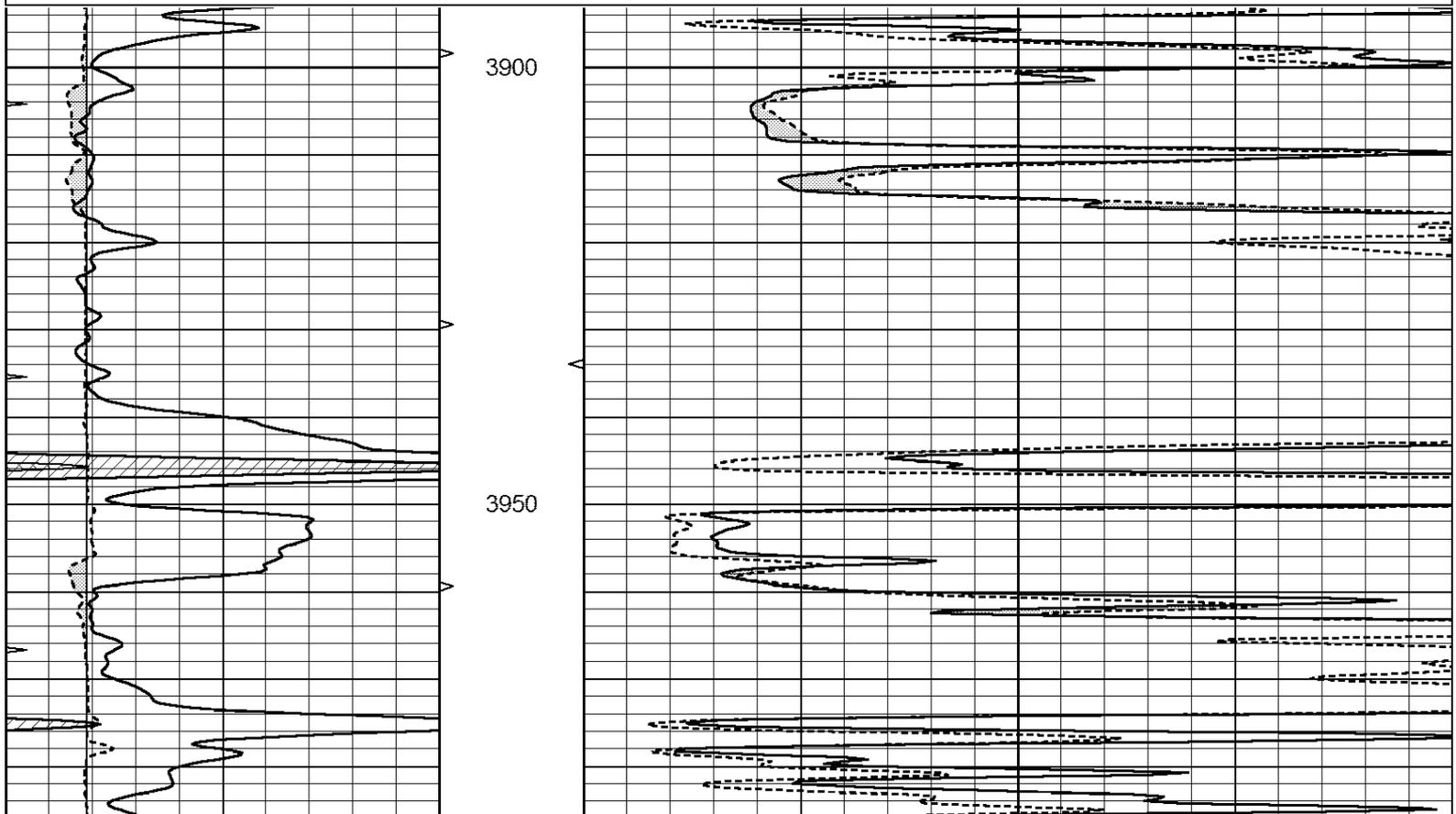
4050 ABHV  
5.5" CSG

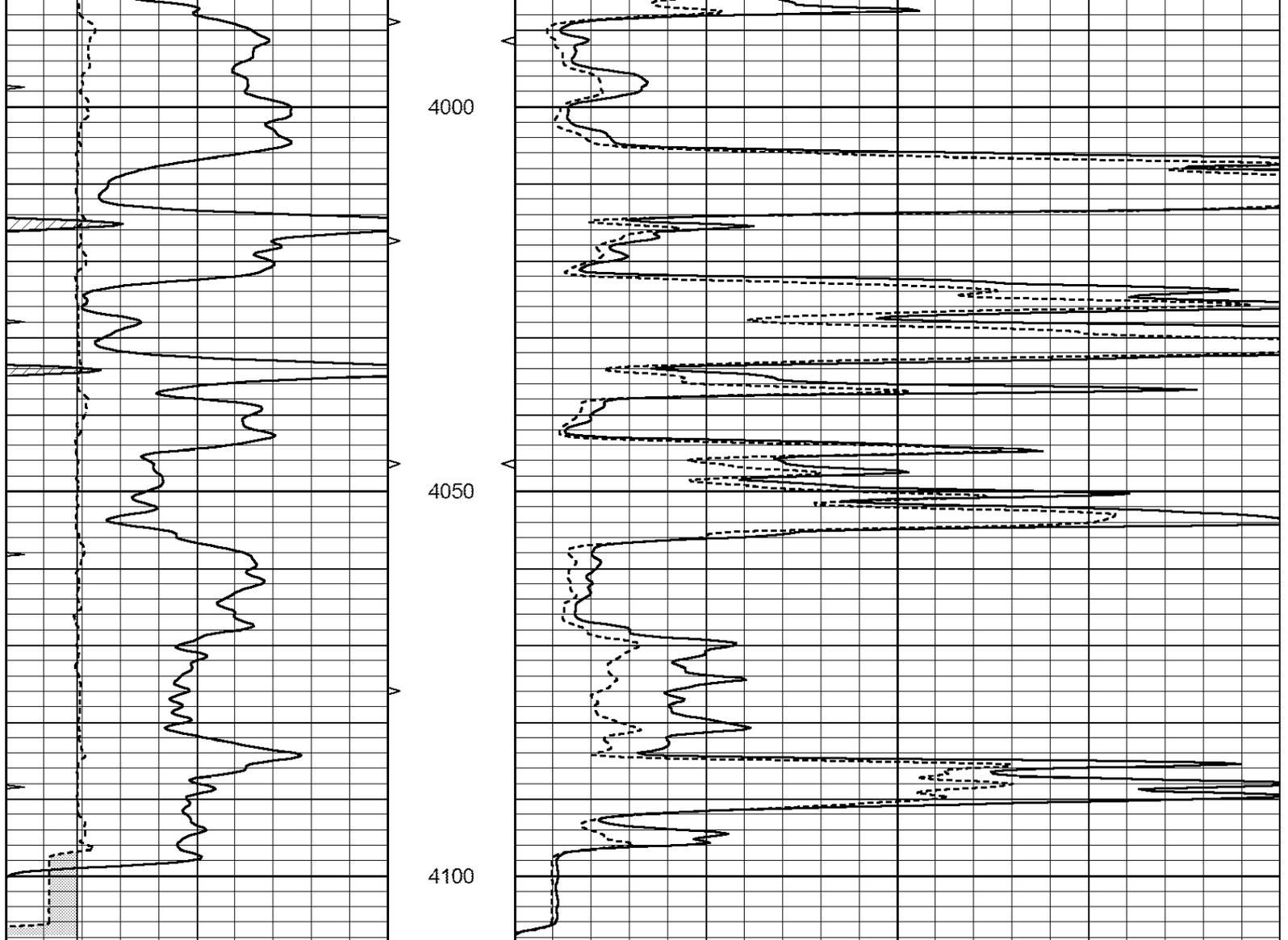


# REPEAT SECTION

Database File: 24633ddn.db  
 Dataset Pathname: pass5.1  
 Presentation Format: \_micro  
 Dataset Creation: Thu Jun 12 00:18:13 2014 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		





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: 24633ddn.db  
 Dataset Pathname: pass5.1  
 Dataset Creation: Thu Jun 12 00:18:13 2014 by Calc Open-Cased 090629

### MICRO Calibration Report

Serial Number: MICRO6  
 Tool Model: PROBE  
 Performed: Fri May 23 07:29:07 2014

Caliper Calibration: Gain=5.542      Offset=-0.320

References	Low Cal	High Cal
Readings	8.000	14.000
	1.431	2.513

1.5" Calibration: Gain=38.075      Offset=0.000

References	Low Cal	High Cal
Readings	0.000	20.000
	0.004	1.196

2" Calibration:

Gain=44.000

Offset=-0.600

References

Low Cal

High Cal

Readings

0.000

20.000

0.006

0.913

### Gamma Ray Calibration Report

Serial Number:

GR6

Tool Model:

OPEN

Performed:

Sat May 31 01:22:06 2014

Calibrator Value:

150.0

GAPI

Background Reading:

0.0

cps

Calibrator Reading:

276.0

cps

Sensitivity:

0.7535

GAPI/cps