



**NABORS**

**COMPLETION  
& PRODUCTION  
SERVICES CO.**

**MICRO  
LOG**

Company CHARTER ENERGY, INC.  
 Well GRANT UNIT #1  
 Field  
 County PAWNEE  
 State KANSAS

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Location: API # : 15-145-21691-00-00  
 1710' FNL & 485' FEL  
 SW - NE - SE - NE

SEC 34 TWP 20S RGE 16W  
 GROUND LEVEL Elevation 1997  
 KELLY BUSHING 7' A.G.L.  
 KELLY BUSHING

Other Services  
 CDL/CNL/DIL  
 SONIC

Elevation  
 K.B. 2004  
 D.F. 2002  
 G.L. 1997

Date	10/26/12
Run Number	TWO
Depth Driller	3841
Depth Logger	3838
Bottom Logged Interval	3818
Top Log Interval	3200
Casing Driller	8 5/8"@1010'
Casing Logger	1002
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.6/61
pH / Fluid Loss	9.0/9.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.65@70F
Rmf @ Meas. Temp	0.49@70F
Rmc @ Meas. Temp	0.78@70F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	0.40@114F
Time Circulation Stopped	2.5 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	114F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	IAN MABB
Witnessed By	JIM MUSGROVE
	JEFF GRONWEG

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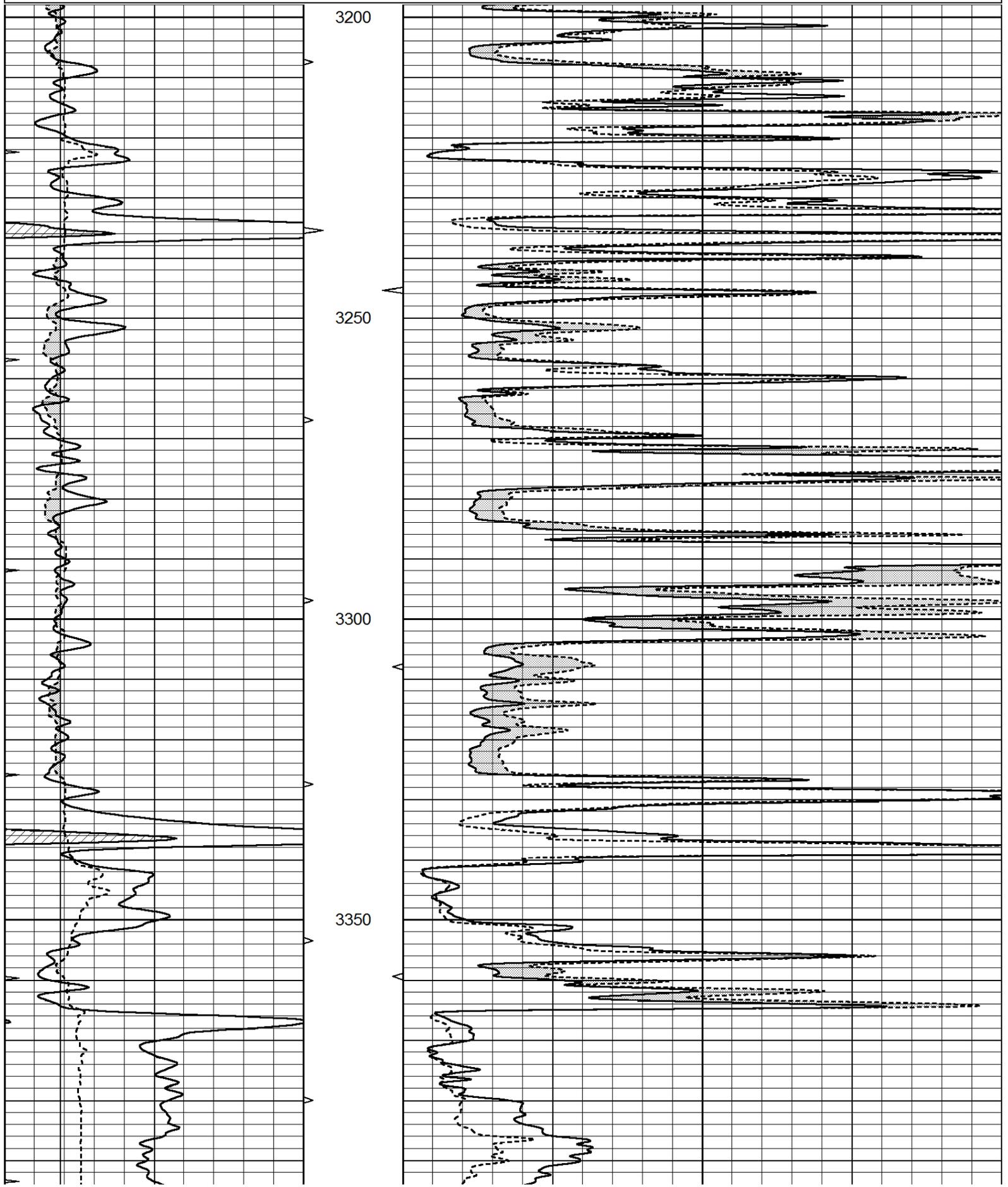
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

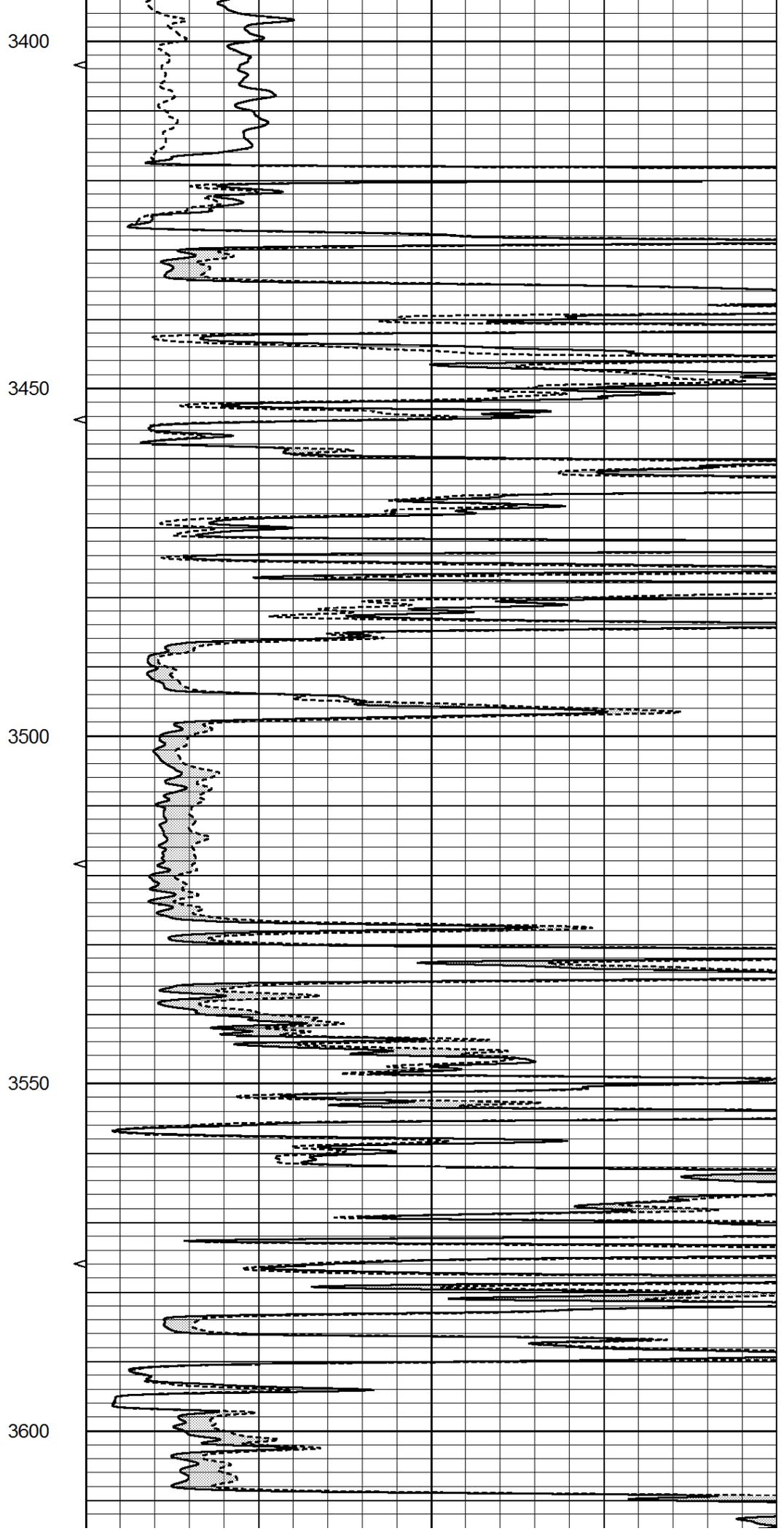
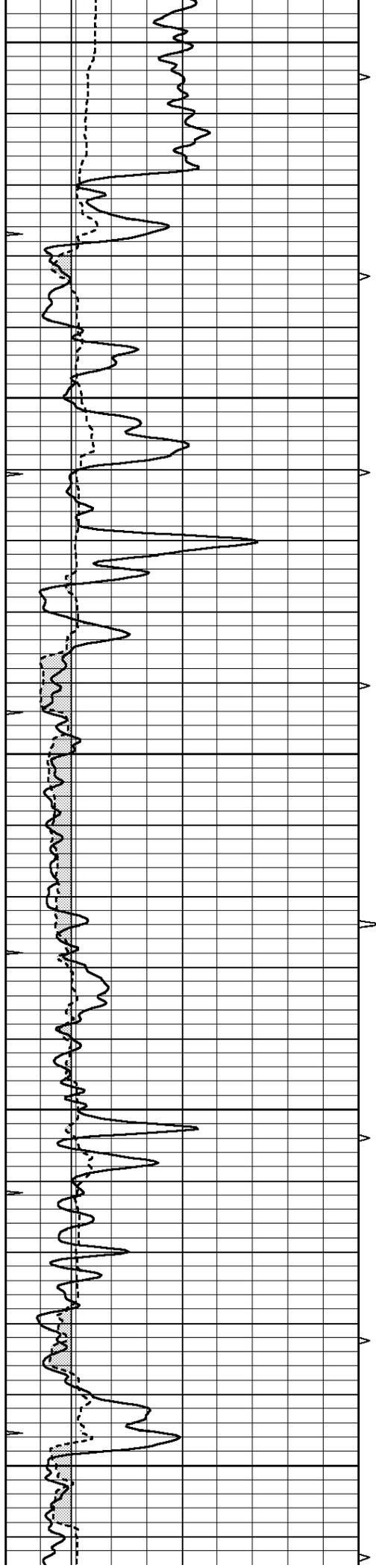
**Comments**

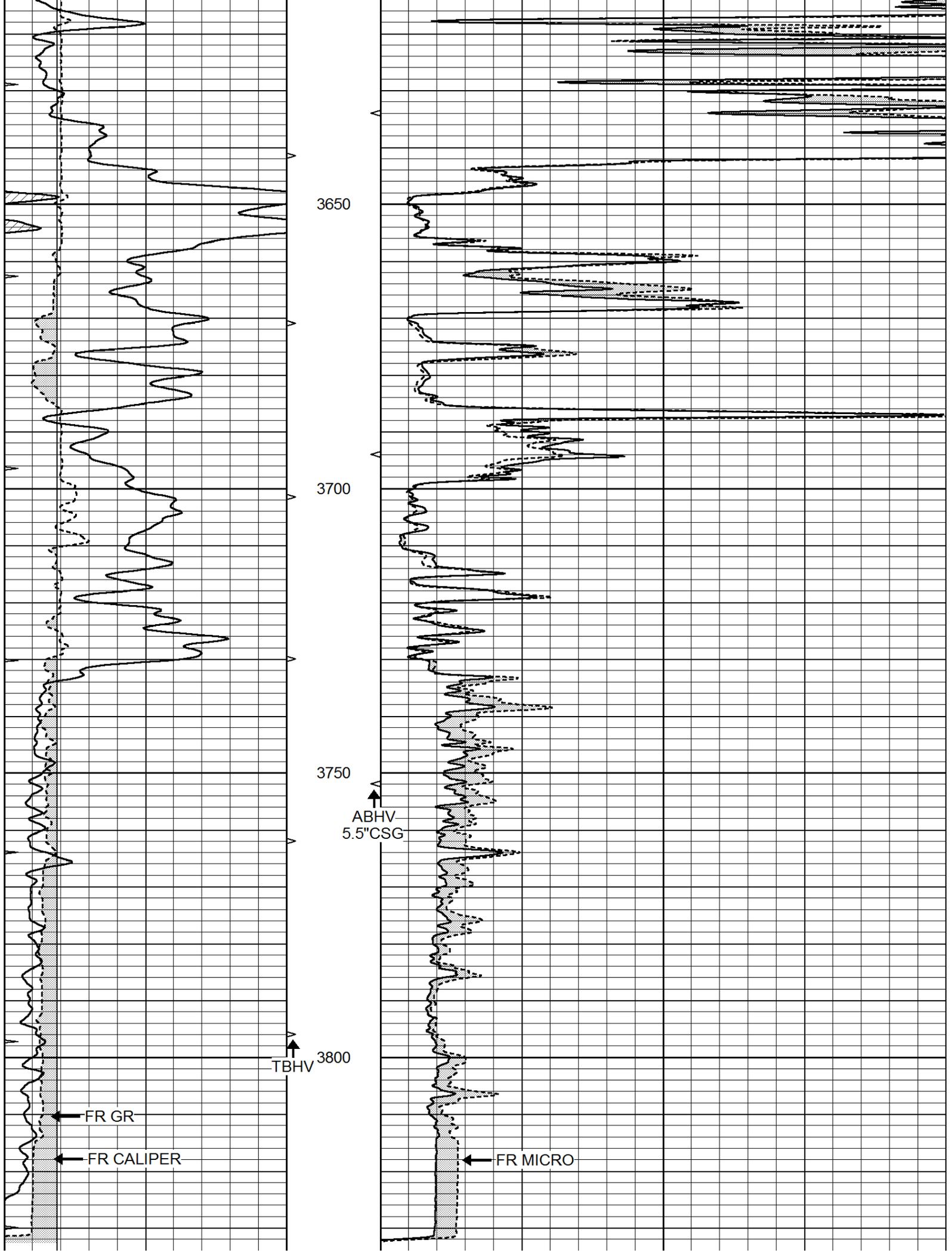
THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395  
 DIRECTIONS  
 PAWNEE ROCK, KS. W ON SW 70 4 MILES, N 1 MILE, W 1 MILE , SOUTH INTO

Database File: 9700ddn.db  
 Dataset Pathname: pass6.1  
 Presentation Format: \_micro  
 Dataset Creation: Fri Oct 26 04:39:44 2012 by Calc Open-Cased 110302  
 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		







LTD 3838

3850

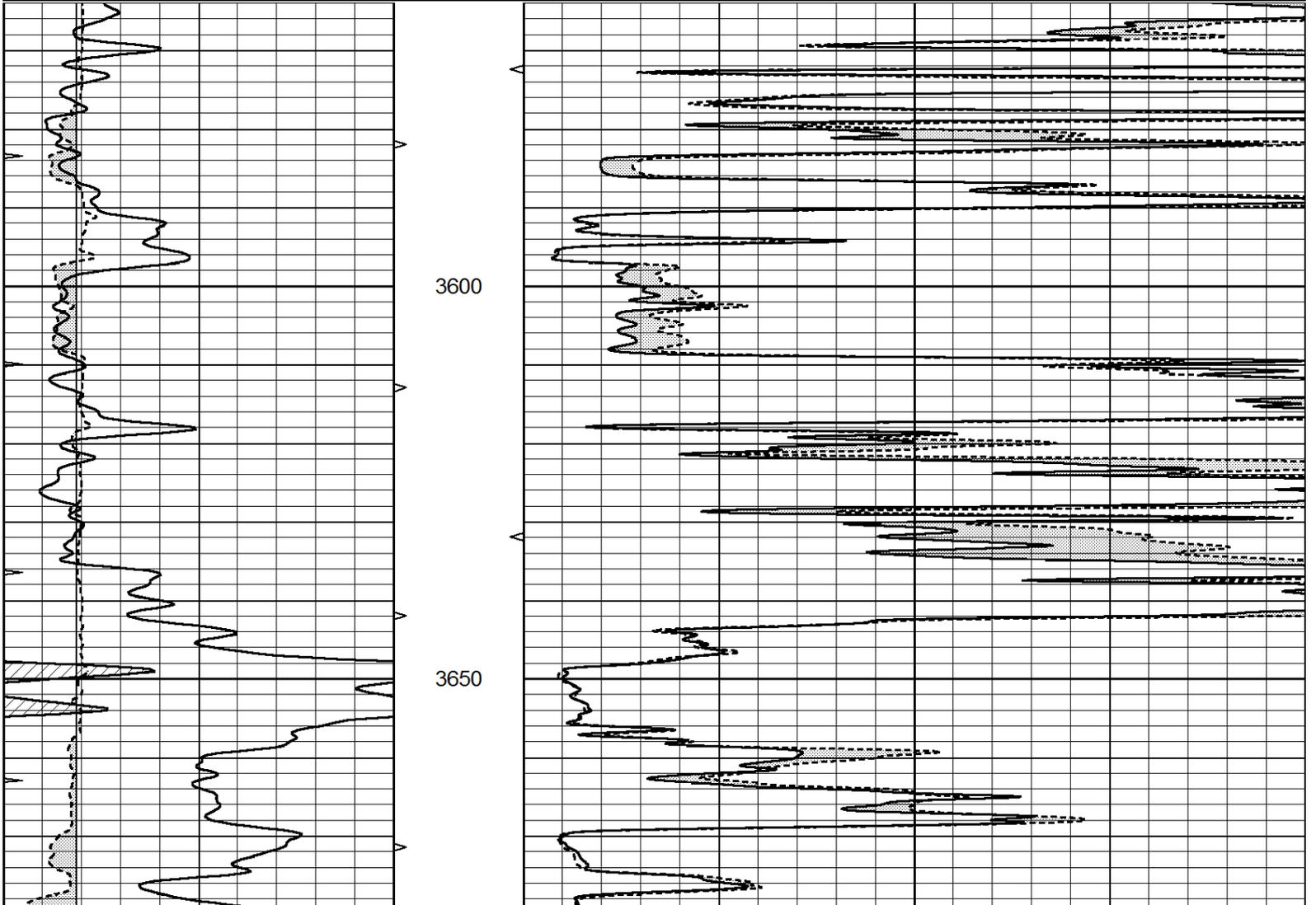
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			0 (ft3)	10		

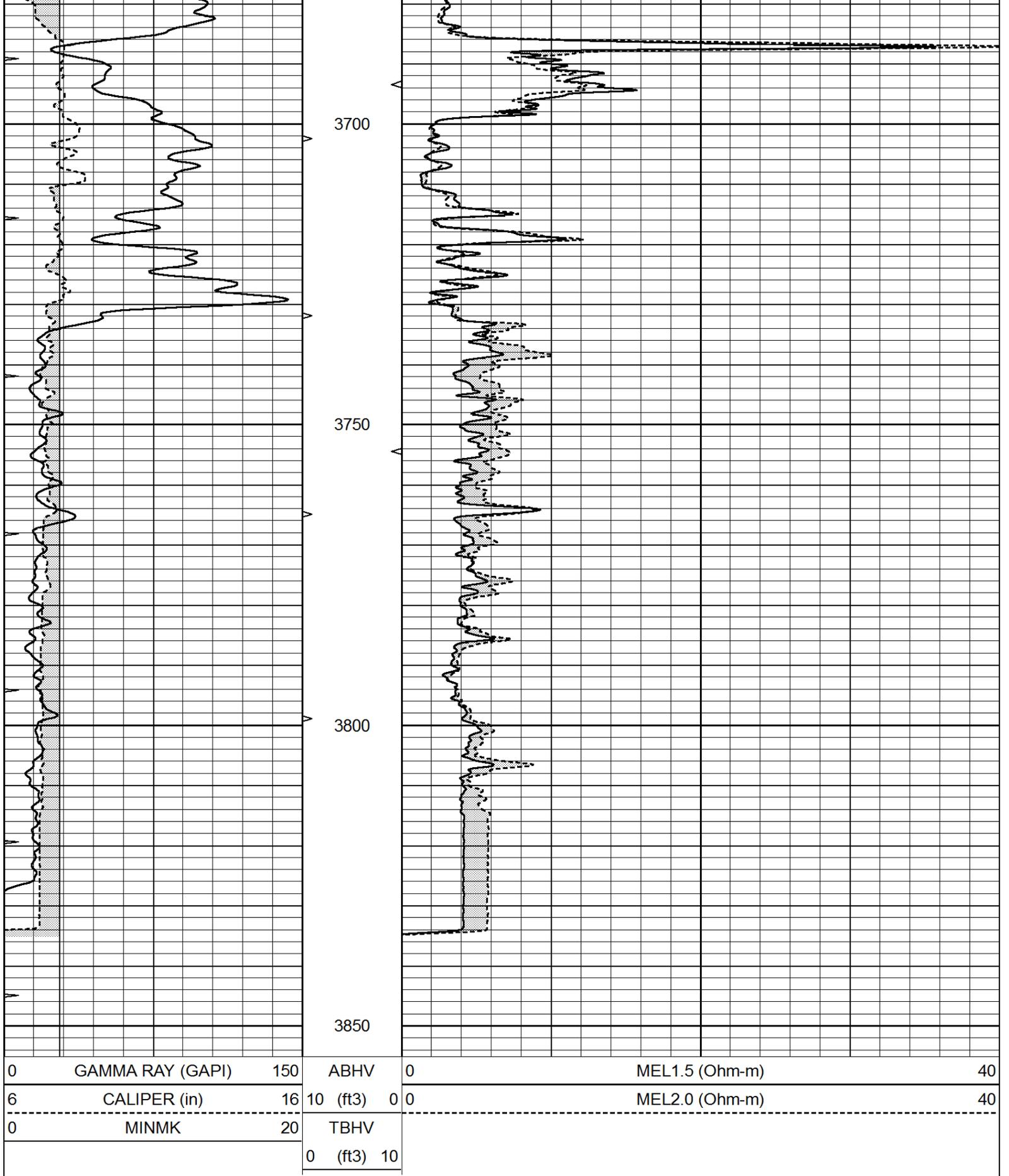


# REPEAT SECTION

Database File: 9700ddn.db  
 Dataset Pathname: pass5.1  
 Presentation Format: \_micro  
 Dataset Creation: Fri Oct 26 04:11:19 2012 by Calc Open-Cased 110302  
 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: 9700ddn.db  
 Dataset Pathname: pass6.1  
 Dataset Creation: Fri Oct 26 04:39:44 2012 by Calc Open-Cased 110302

## MICRO Calibration Report

Serial Number:	MICRO5
Tool Model:	PROBE
Performed:	Wed Oct 03 13:36:18 2012

Caliper Calibration:	Gain=4.050	Offset=-8.705
References	Low Cal	High Cal
Readings	7.900	16.000
	4.100	6.100

1.5" Calibration:	Gain=36.000	Offset=-0.500
References	Low Cal	High Cal
Readings	0.000	20.000
	-0.002	0.981

2" Calibration:	Gain=38.000	Offset=-0.400
References	Low Cal	High Cal
Readings	0.000	20.000
	0.002	0.898

## Gamma Ray Calibration Report

Serial Number:	GR4
Tool Model:	OPEN
Performed:	Mon Oct 22 00:55:23 2012

Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	1.1000	GAPI/cps