



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company BLACK DIAMOND OIL, INC.
Well LOGAN NW #1
Field WILD CAT
County NORTON State KANSAS

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Location: API #: 15-137-20725-00-00
2310' FSL & 1600' FEL
E2 - NE - NW - SE
SEC 24 TWP 3S RGE 21W
Permanent Datum GROUND LEVEL Elevation 2196
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CNL/CDL
DIL
Elevation
K.B. 2201
D.F. 2199
G.L. 2196

Date	12/8/14		
Run Number	ONE		
Depth Driller	3770		
Depth Logger	3769		
Bottom Logged Interval	3767		
Top Log Interval	3000		
Casing Driller	8 5/8 @ 220'		
Casing Logger	218'		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3/5.1	CHLORIDES 500 PPM	
pH / Fluid Loss	10.0/7.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.80 @ 41F		
Rmf @ Meas. Temp	1.35 @ 41F		
Rmc @ Meas. Temp	2.16 @ 41F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	0.66 @ 114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	114F		
Equipment Number	3802		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	JEFF LAWLER		

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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

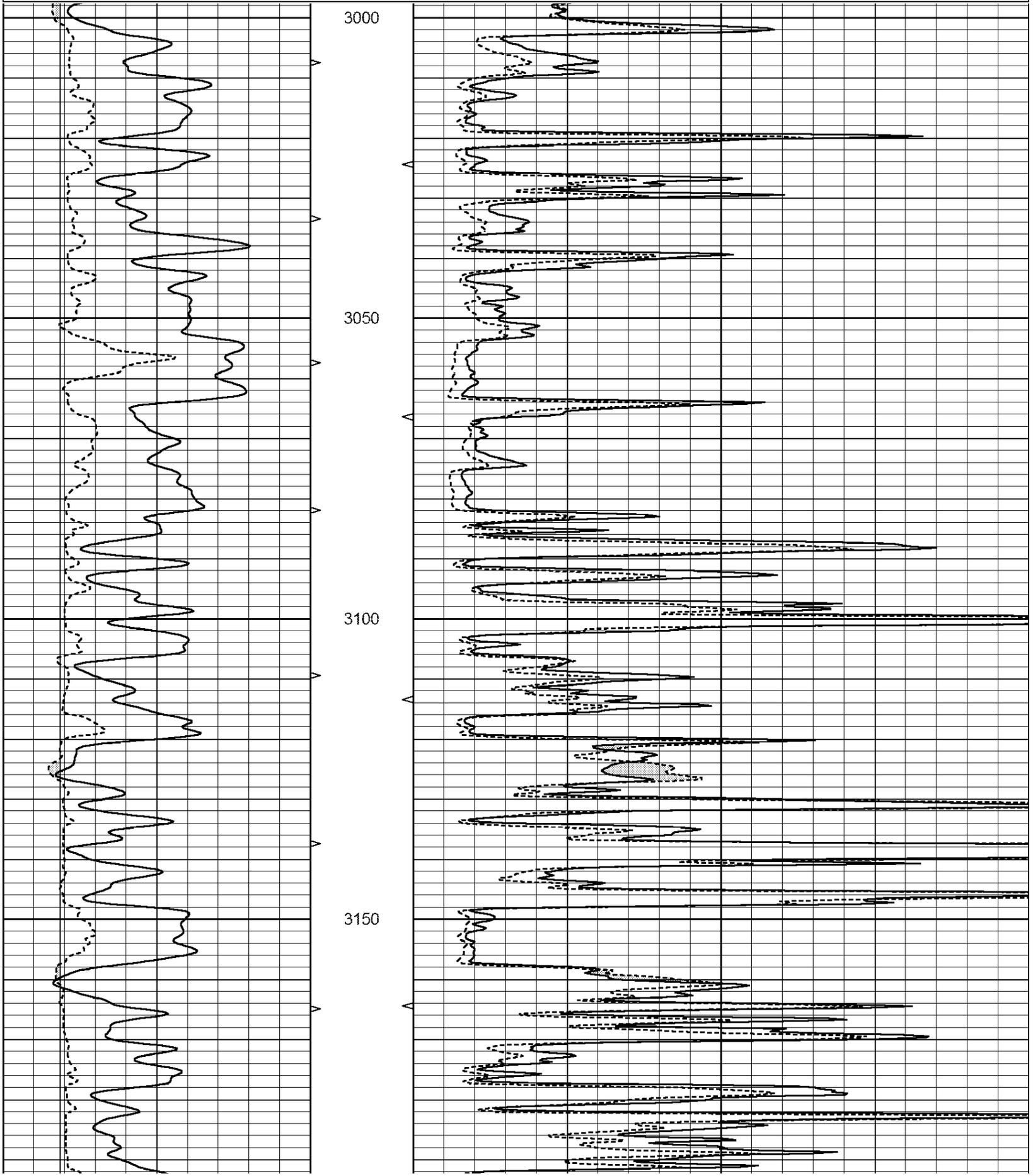
NABORS COMPLETION & PRODUCTION SERVICES CO.

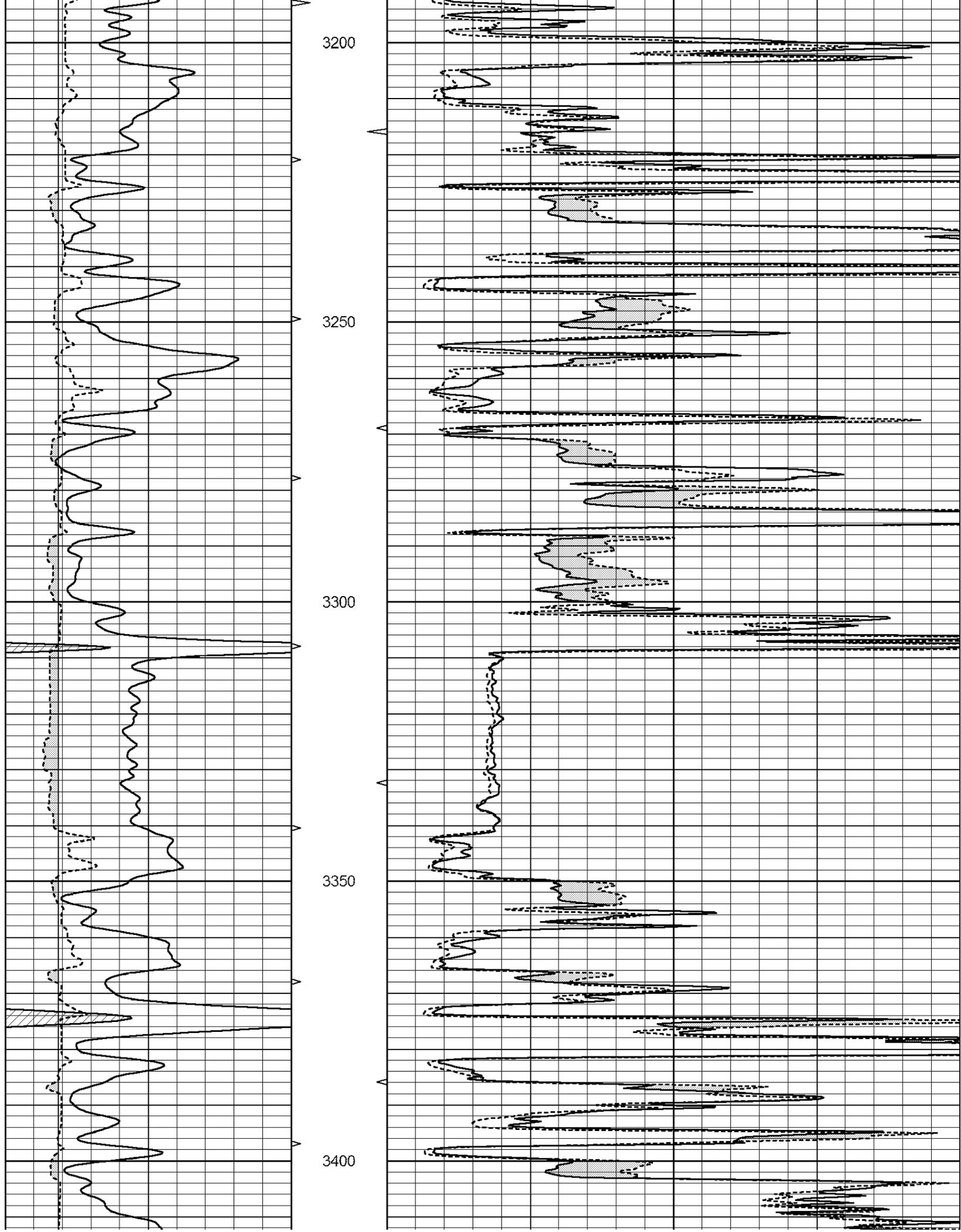
785 (628 - 6395)

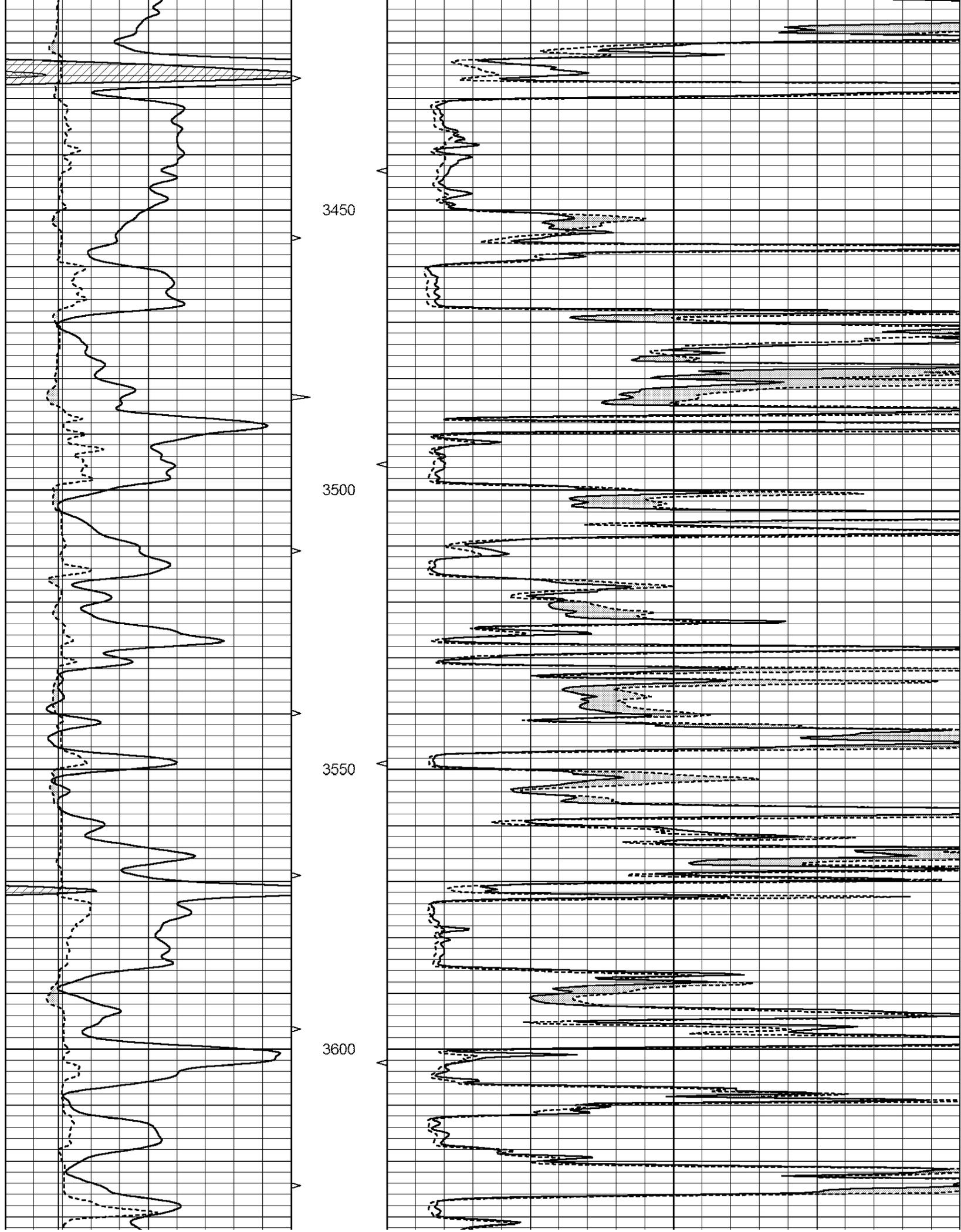
THANK YOU FOR YOUR BUSINESS

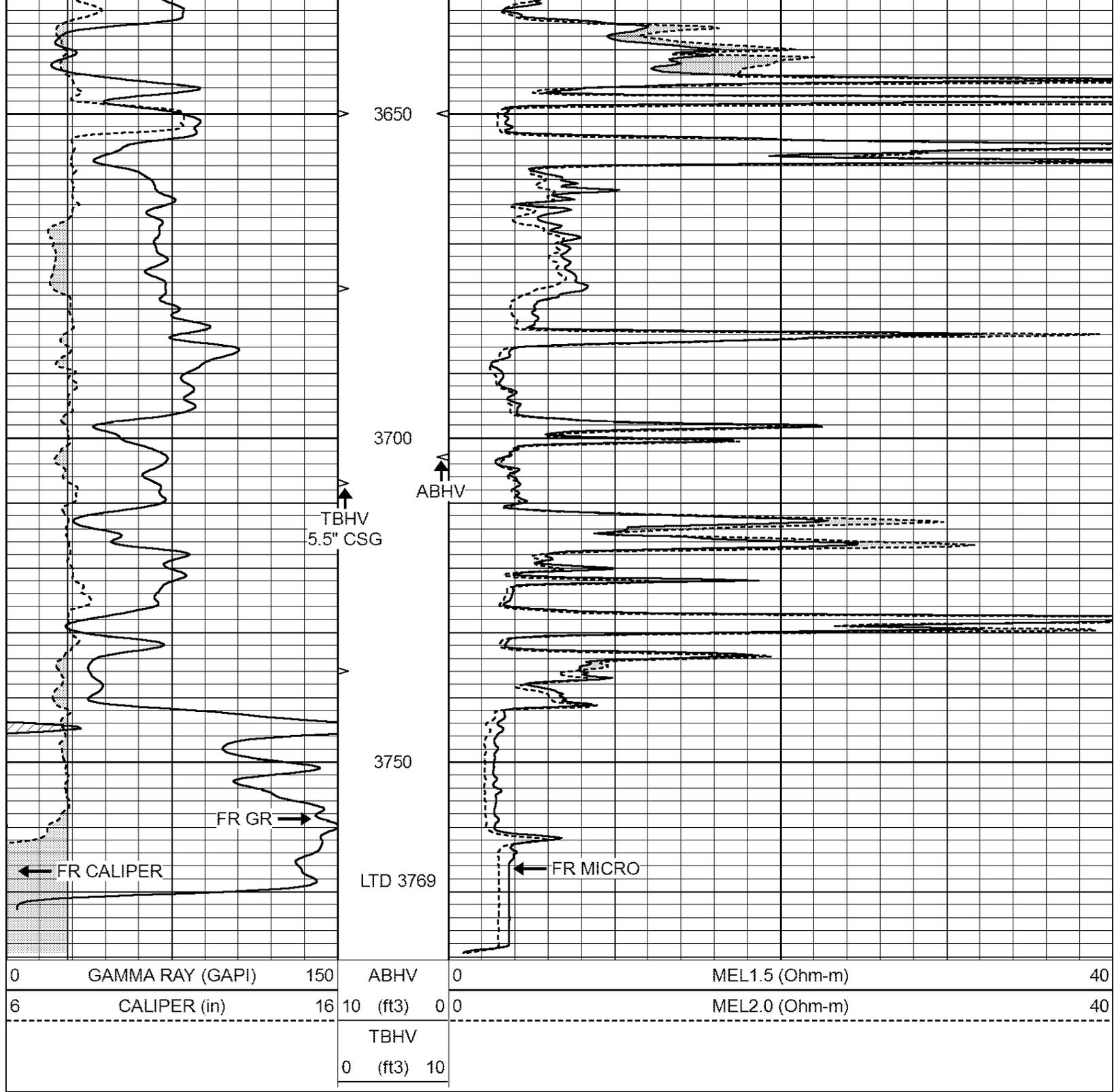
DIRECTIONS : PHILLIPSBURG, KS. - WEST TO THE NORTON CO. LINE - SOUTH 3 1/2 MILES - WEST INTO

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
			TBHV			
			0 (ft3)	10		





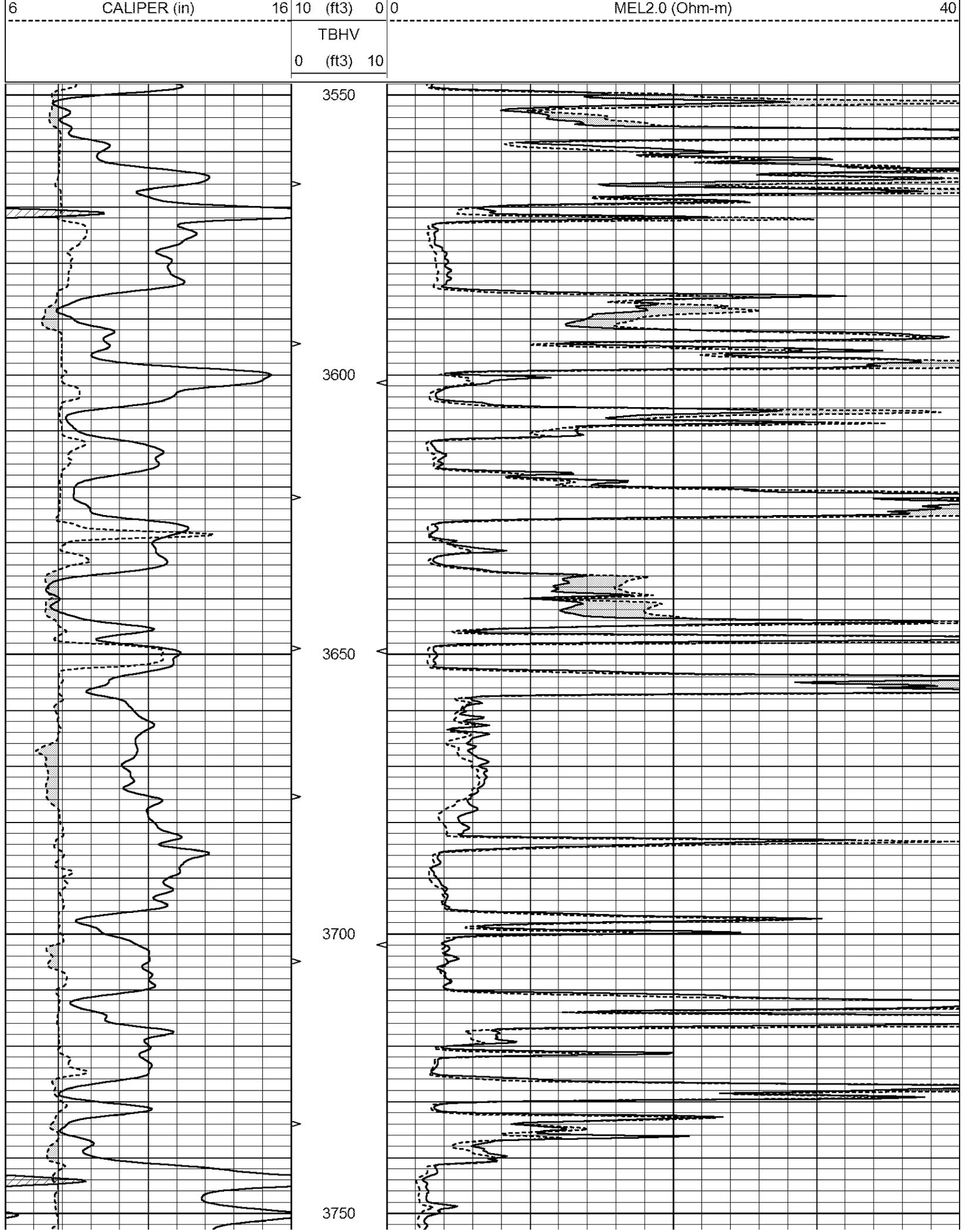


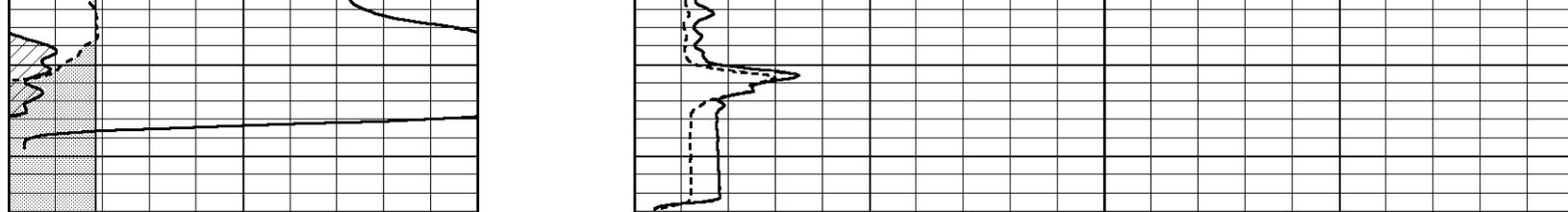


REPEAT SECTION

Database File: 26270ddn.db
 Dataset Pathname: pass6.2
 Presentation Format: _micro
 Dataset Creation: Mon Dec 08 06:27:01 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
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0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3) 0 0	0	MEL2.0 (Ohm-m)	40
			TBHV			
			0 (ft3) 10			

Calibration Report

Database File: 26270ddn.db
 Dataset Pathname: pass7.3
 Dataset Creation: Mon Dec 08 06:36:51 2014 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number:	MICRO5	
Tool Model:	PROBE	
Performed:	Sat Aug 02 03:42:56 2014	
Caliper Calibration:	Gain=3.000	Offset=-5.500
References	Low Cal	High Cal
Readings	6.200	15.000
	3.737	5.660
1.5" Calibration:	Gain=25.000	Offset=0.850
References	Low Cal	High Cal
Readings	0.000	20.000
	0.025	1.009
2" Calibration:	Gain=25.398	Offset=1.000
References	Low Cal	High Cal
Readings	0.000	20.000
	0.014	0.802

Gamma Ray Calibration Report

Serial Number:	GR2	
Tool Model:	OPEN	
Performed:	Tue Nov 25 21:32:24 2014	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	740.0	cps
Sensitivity:	0.8000	GAPI/cps