



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company IA OPERATING, INC.
Well MARVIN WUDTKE TRUST #34-1
Field
County NORTON
State KANSAS

Company IA OPERATING, INC.
Well MARVIN WUDTKE TRUST #34-1
Field
County NORTON State KANSAS

Location: API # : 15-137-20690-0000
1294' FNL & 739' FWL
SW - SE - NW - NW
SEC 34 TWP 2S RGE 24W
Permanent Datum GROUND LEVEL Elevation 2458
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
DIL/SON
Elevation
K.B. 2466
D.F. 2464
G.L. 2458

Date	3/27/14		
Run Number	TWO		
Depth Driller	3770		
Depth Logger	3768		
Bottom Logged Interval	3750		
Top Log Interval	3150		
Casing Driller	8 5/8" @ 220		
Casing Logger	219		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1750 PPM	
Density / Viscosity	9.2/59		
pH / Fluid Loss	10.0/7.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	2.20 @ 68F		
Rmt @ Meas. Temp	1.65 @ 68F		
Rmc @ Meas. Temp	2.64 @ 68F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	1.31 @ 114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	114F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF GRONWEG		
Witnessed By	JEFF LAWLER		

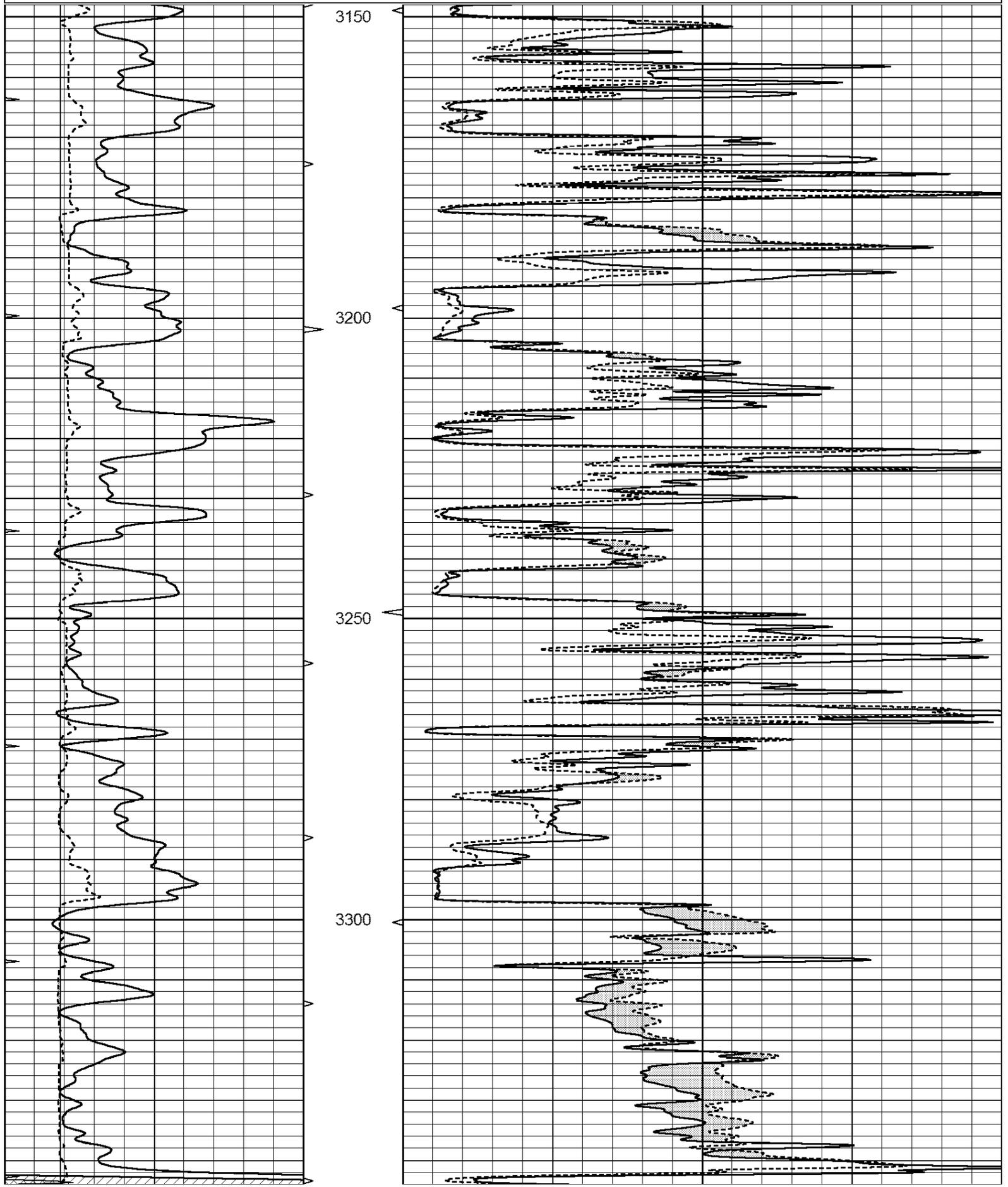
<<< Fold Here >>>

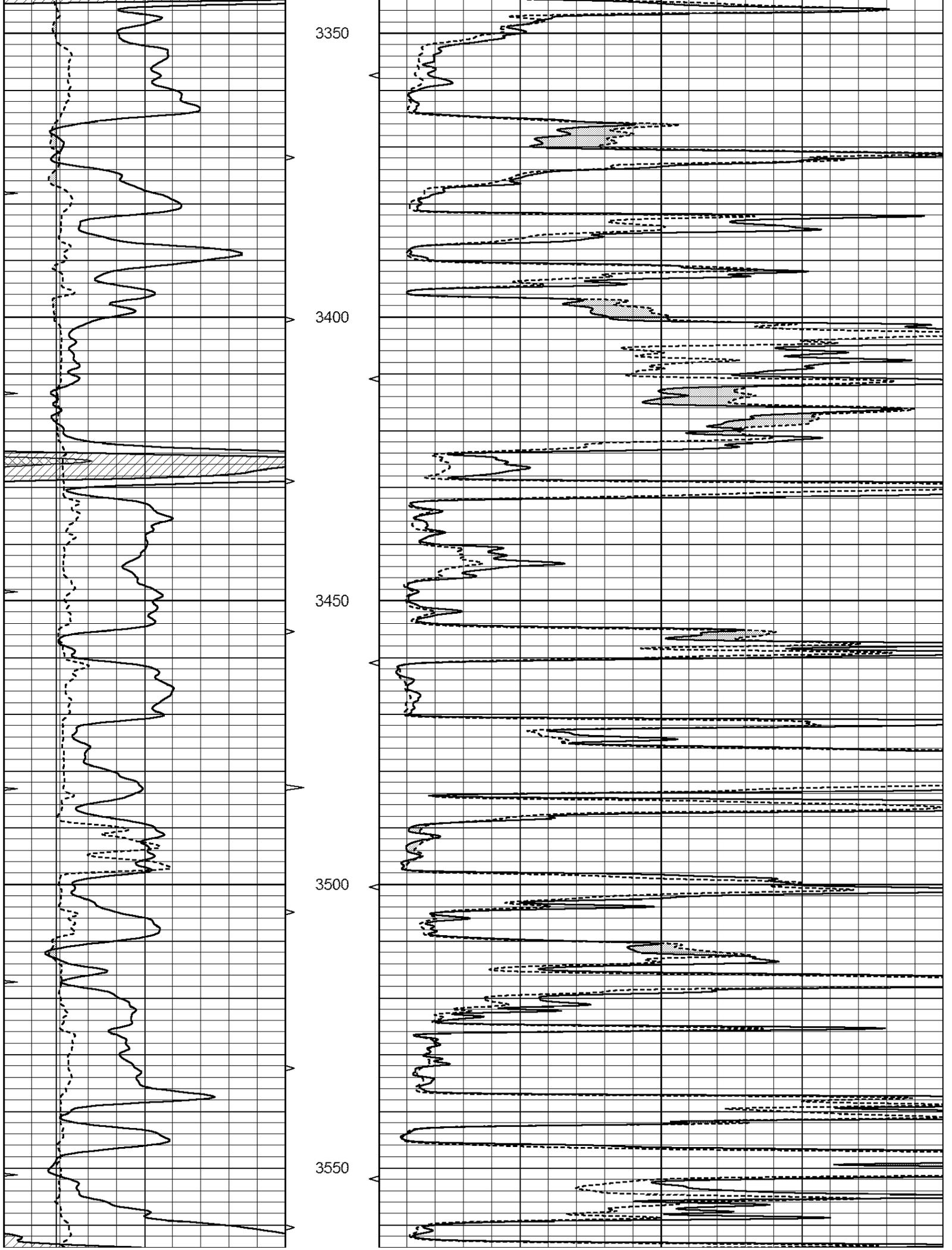
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

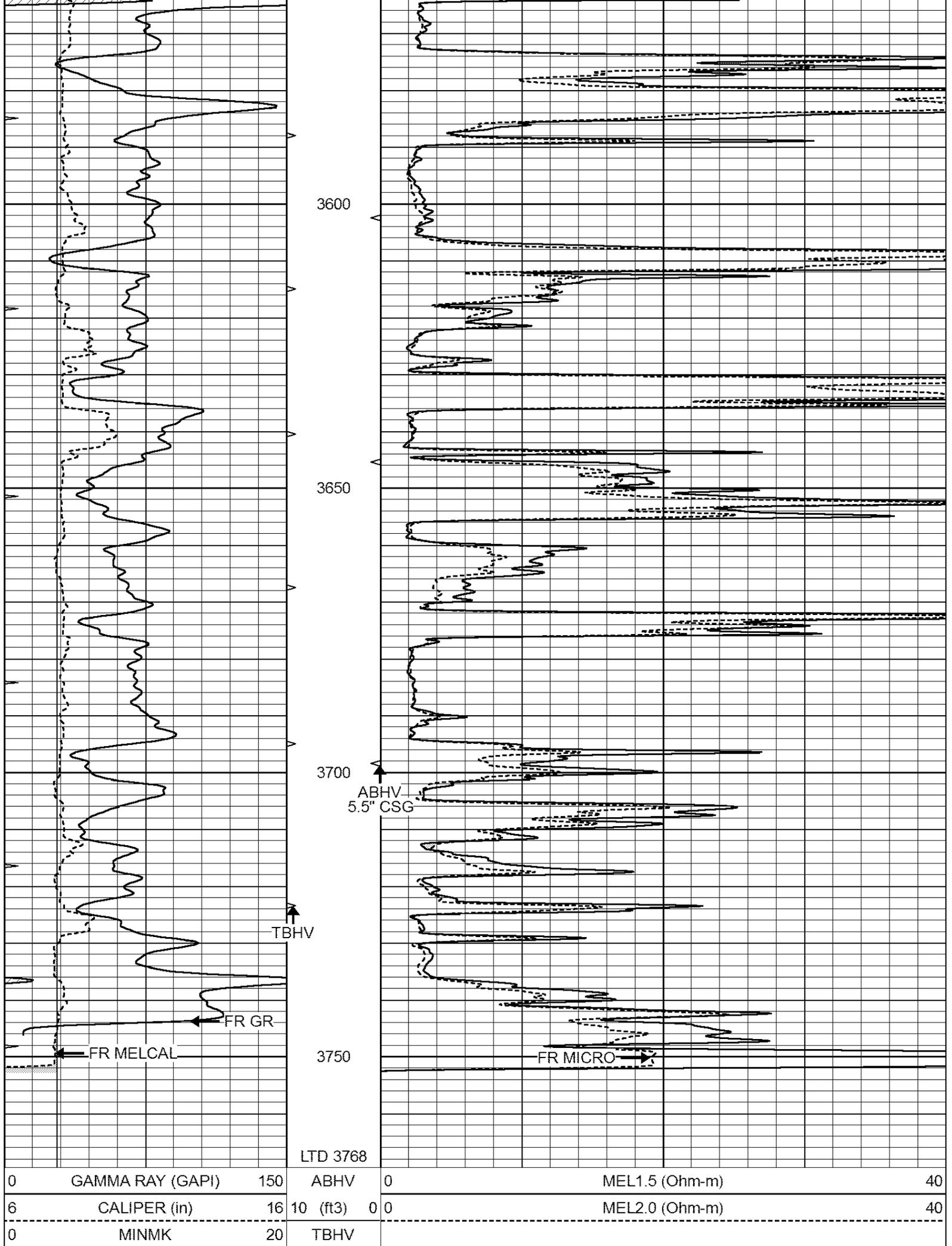
Comments

THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
NORTON, KS - 7 MILES WEST TO RD W7 - 3/4 MILE NORTH
EAST INTO

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 3768

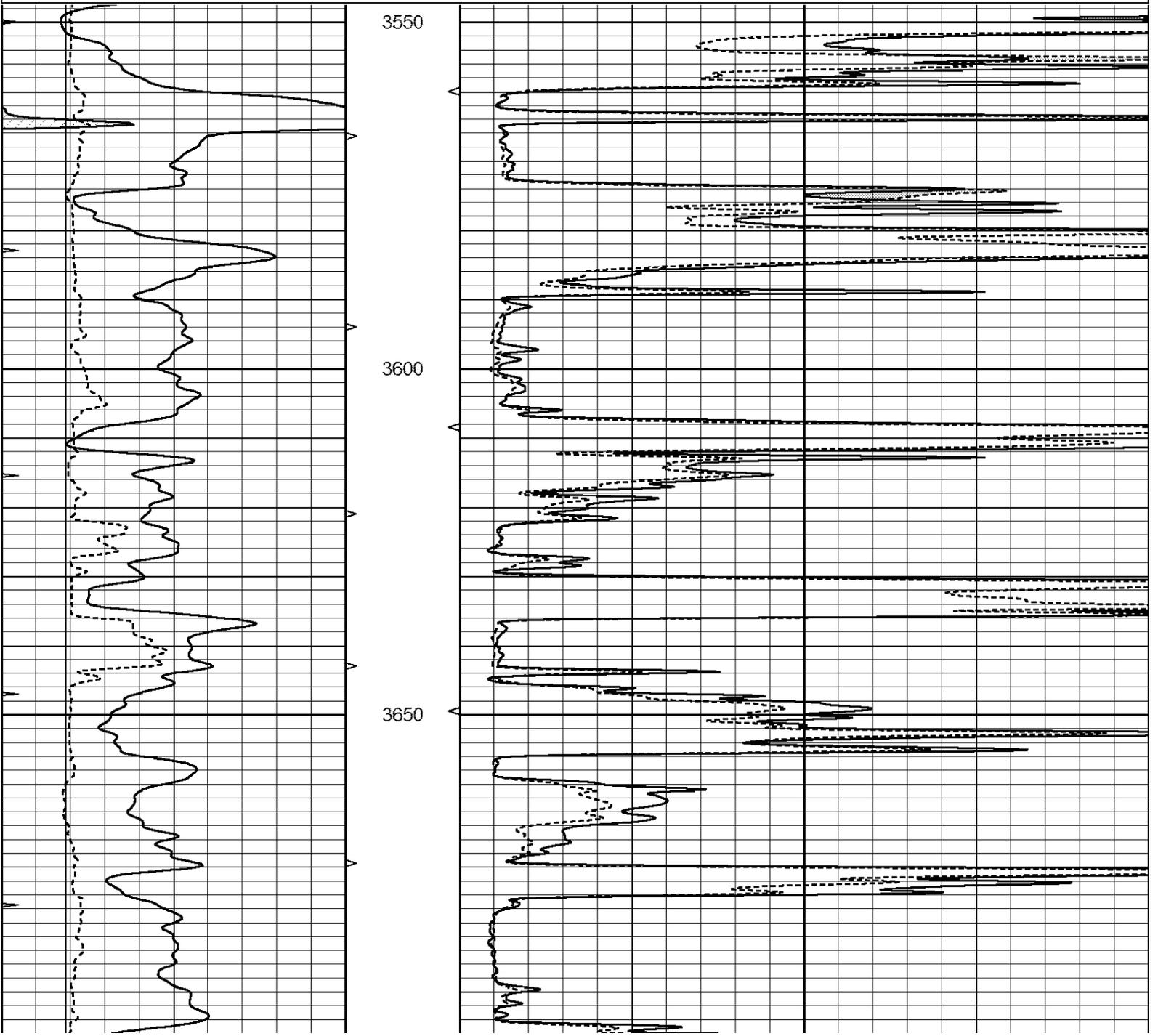
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0 0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			

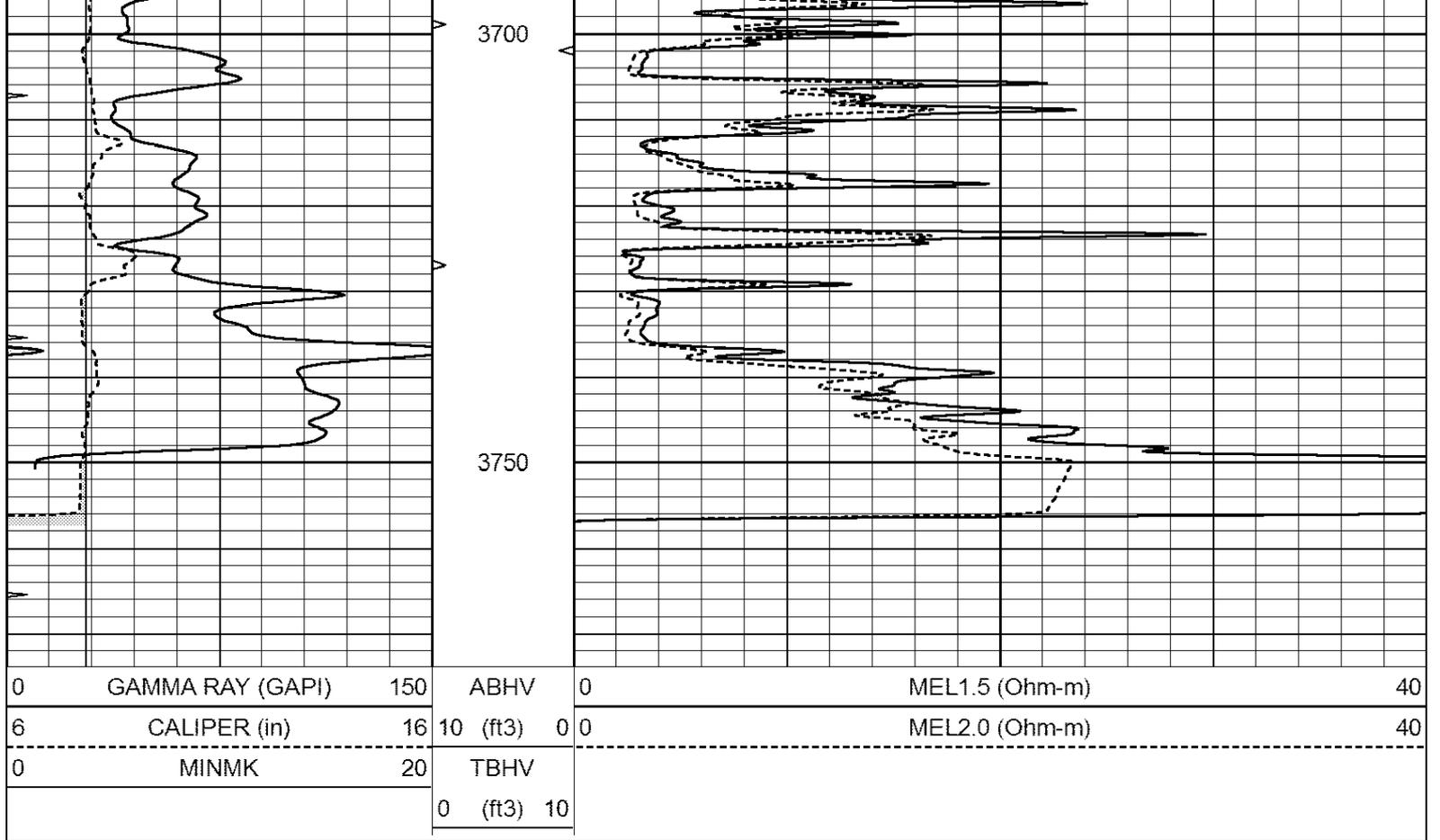


REPEAT SECTION

Database File: 24014ddn.db
 Dataset Pathname: pass5.1.2
 Presentation Format: _micro
 Dataset Creation: Thu Mar 27 23:03:21 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		





Calibration Report

Database File: 24014ddn.db
 Dataset Pathname: pass6.1
 Dataset Creation: Thu Mar 27 23:28:18 2014 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number:	MICRO6	
Tool Model:	PROBE	
Performed:	Fri Mar 14 21:54:54 2014	
Caliper Calibration:	Gain=5.542	Offset=-0.820
References	Low Cal 8.000	High Cal 14.000
Readings	1.431	2.513
1.5" Calibration:	Gain=38.075	Offset=-0.750
References	Low Cal 0.000	High Cal 20.000
Readings	0.004	1.196
2" Calibration:	Gain=44.000	Offset=-0.600
References	Low Cal 0.000	High Cal 20.000
Readings	0.006	0.913

Gamma Ray Calibration Report

Serial Number:	GR6	
Tool Model:	OPEN	
Performed:	Fri Nov 29 08:34:37 2013	
Calibrator Value:	150.0	GAPI

Background Reading:

0.0

cps

Calibrator Reading:

276.0

cps

Sensitivity:

0.6035

GAPI/cps