



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

INC.

Company LIBERTY OPERATIONS & COMPLETIONS,
Well GREEN #2
Field LYND POOL
County ROOKS
State KANSAS

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Well GREEN #2
Field LYND POOL
County ROOKS State KANSAS

Location: 380' FNL & 1650' FWL
API # : 15-163-24157-0000
SEC 33 TWP 9S RGE 19W
Permanent Datum GROUND LEVEL Elevation 2222
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL/PE
DIL/SON
Elevation
K.B. 2227
D.F. 2225
G.L. 2222

Date	9/25/13
Run Number	TWO
Depth Driller	3795
Depth Logger	3794
Bottom Logged Interval	3776
Top Log Interval	3100
Casing Driller	8 5/8" @ 213
Casing Logger	214
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.2/50
pH / Fluid Loss	9.0/8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.65 @ 98F
Rmt @ Meas. Temp	.48 @ 98F
Rmc @ Meas. Temp	.78 @ 98F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.55 @ 114F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	114F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	TONY RICHARDSON

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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

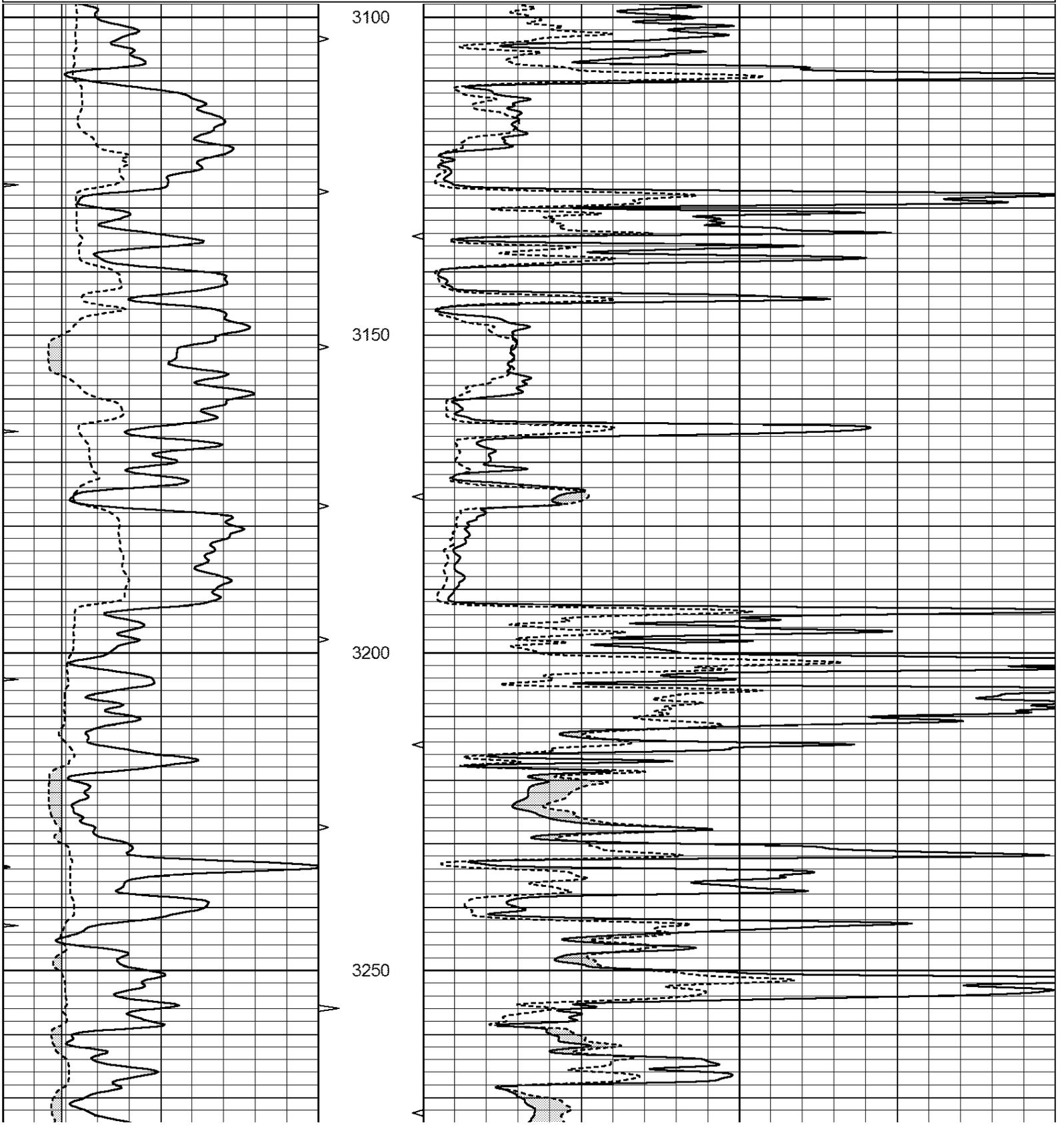
THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
ZURICH, KS. - 3/4 W. - S. INTO

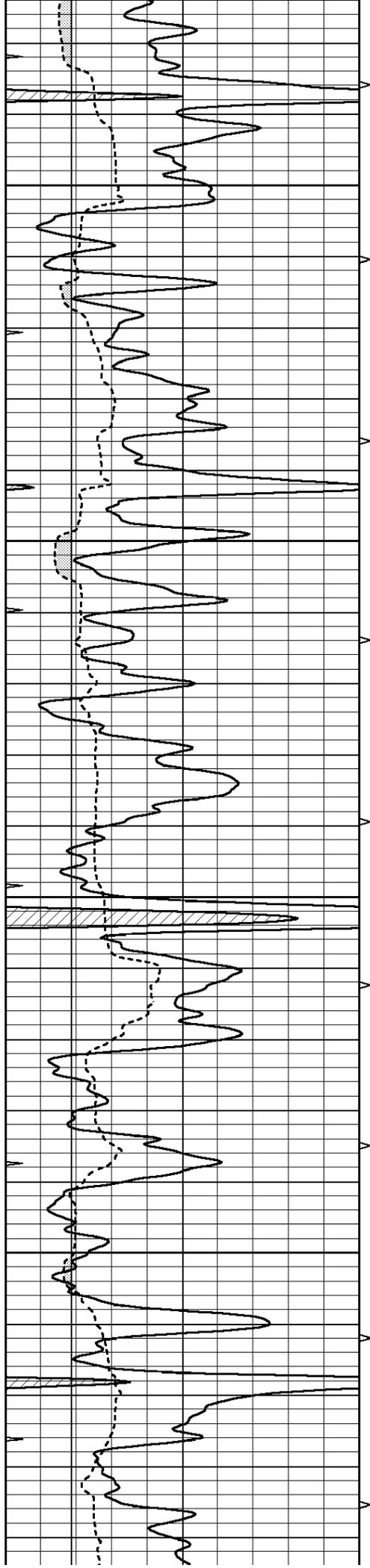


MAIN SECTION

Database File: 011785pe.db
 Dataset Pathname: pass9.1
 Presentation Format: _micro
 Dataset Creation: Wed Sep 25 20:20:31 2013 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		



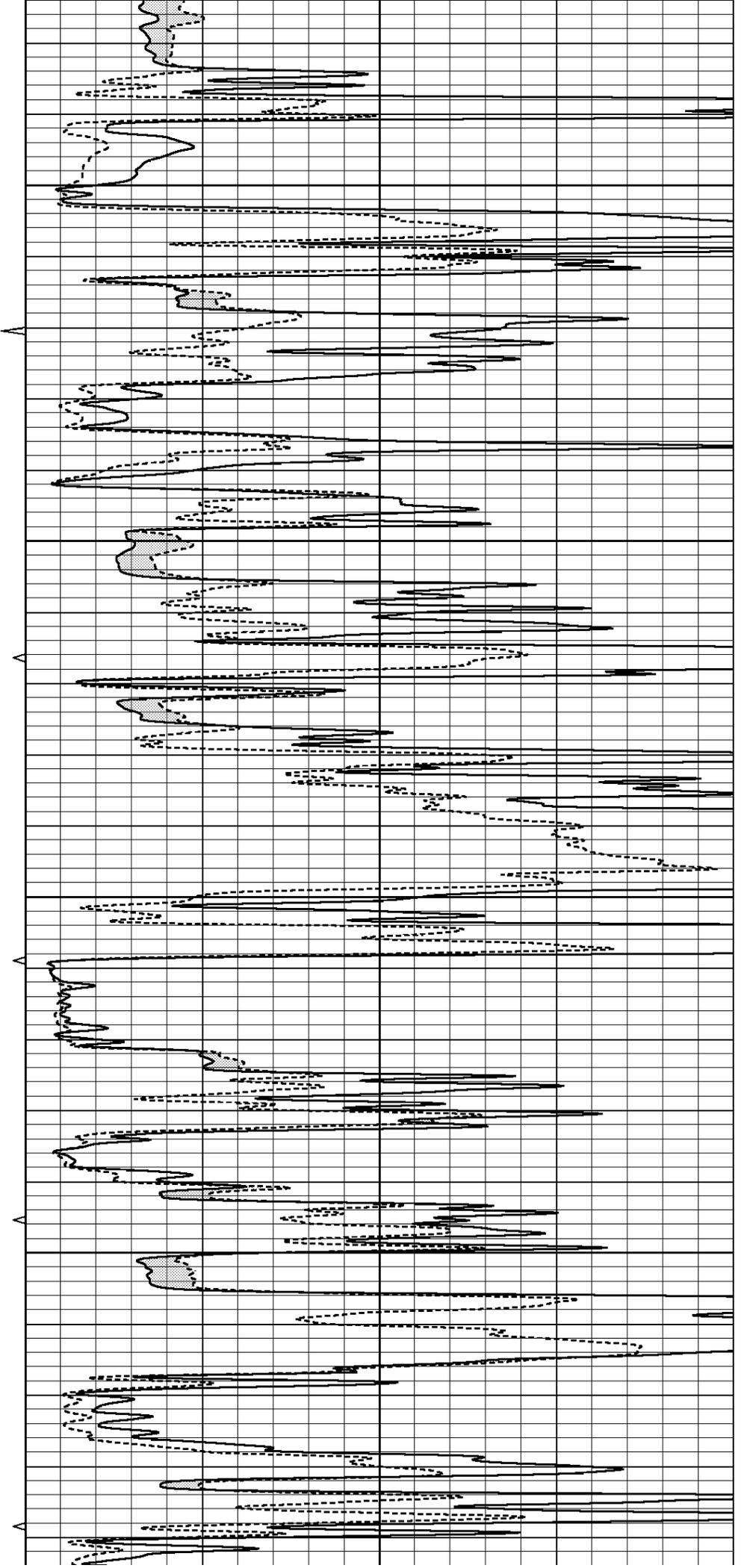


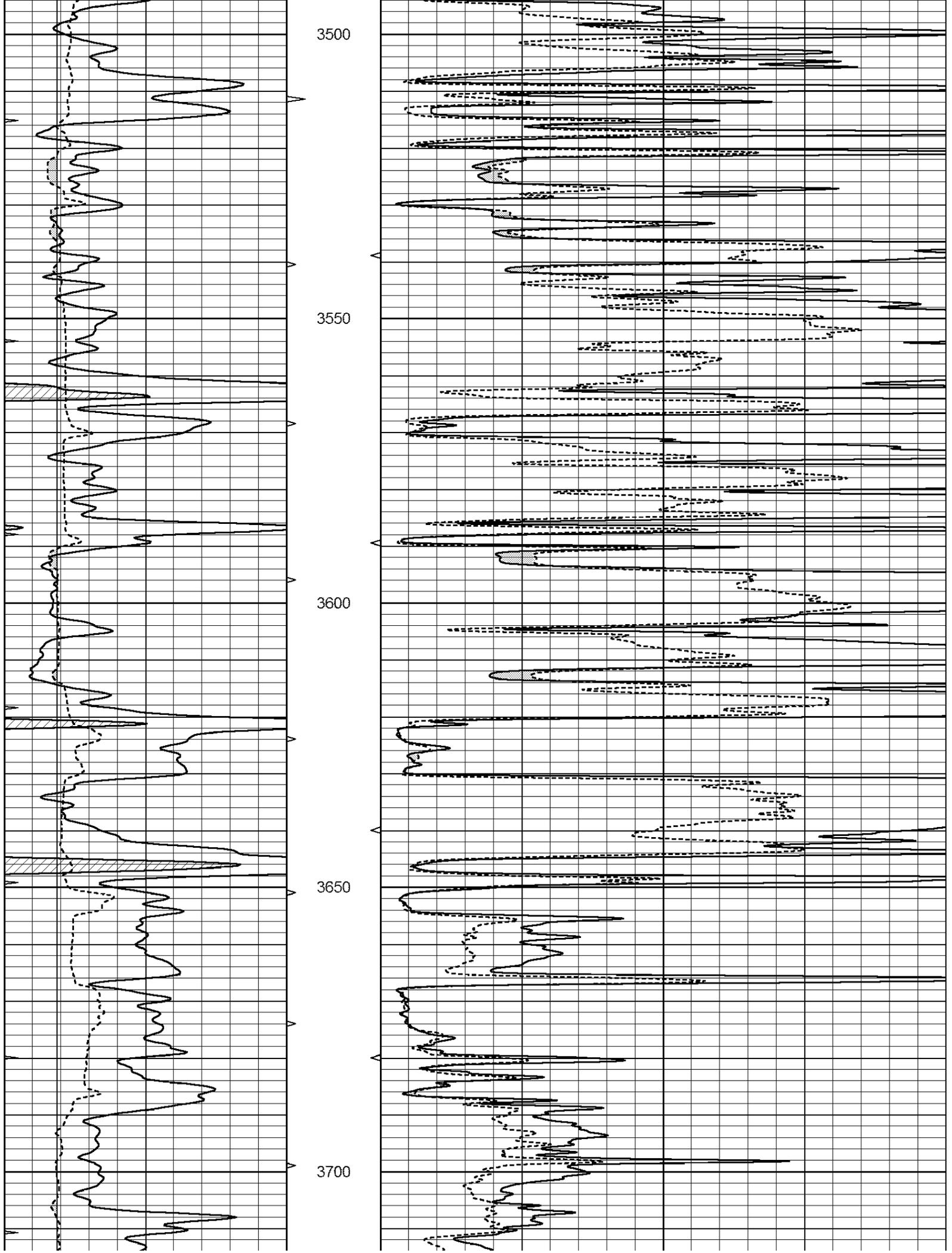
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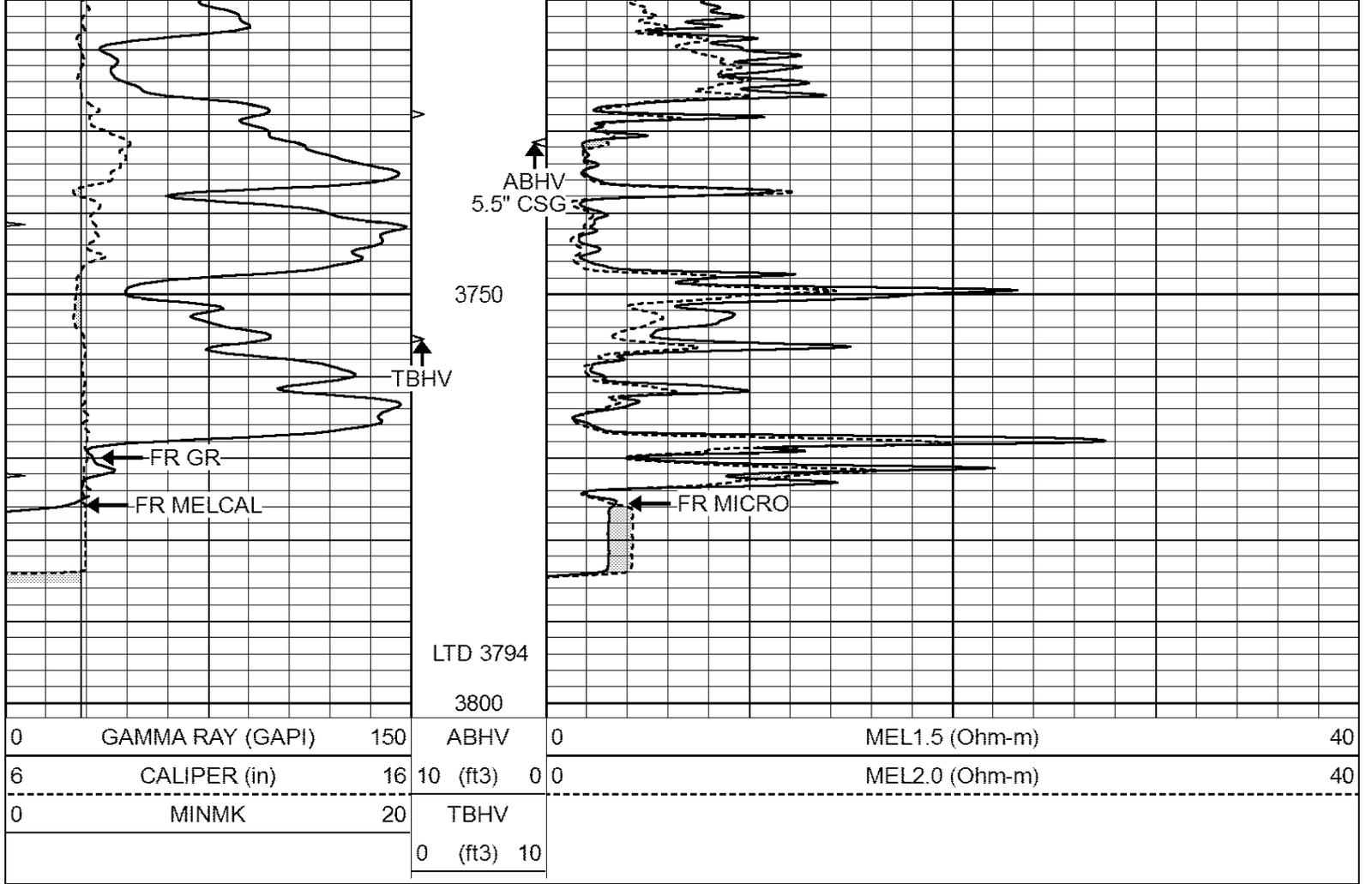
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3400

3450



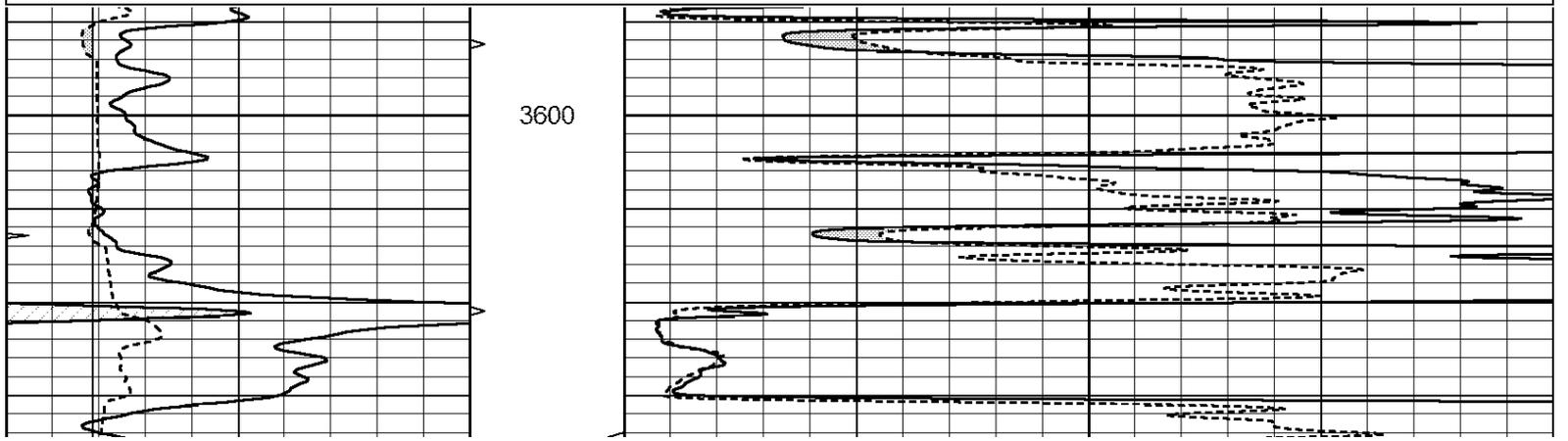


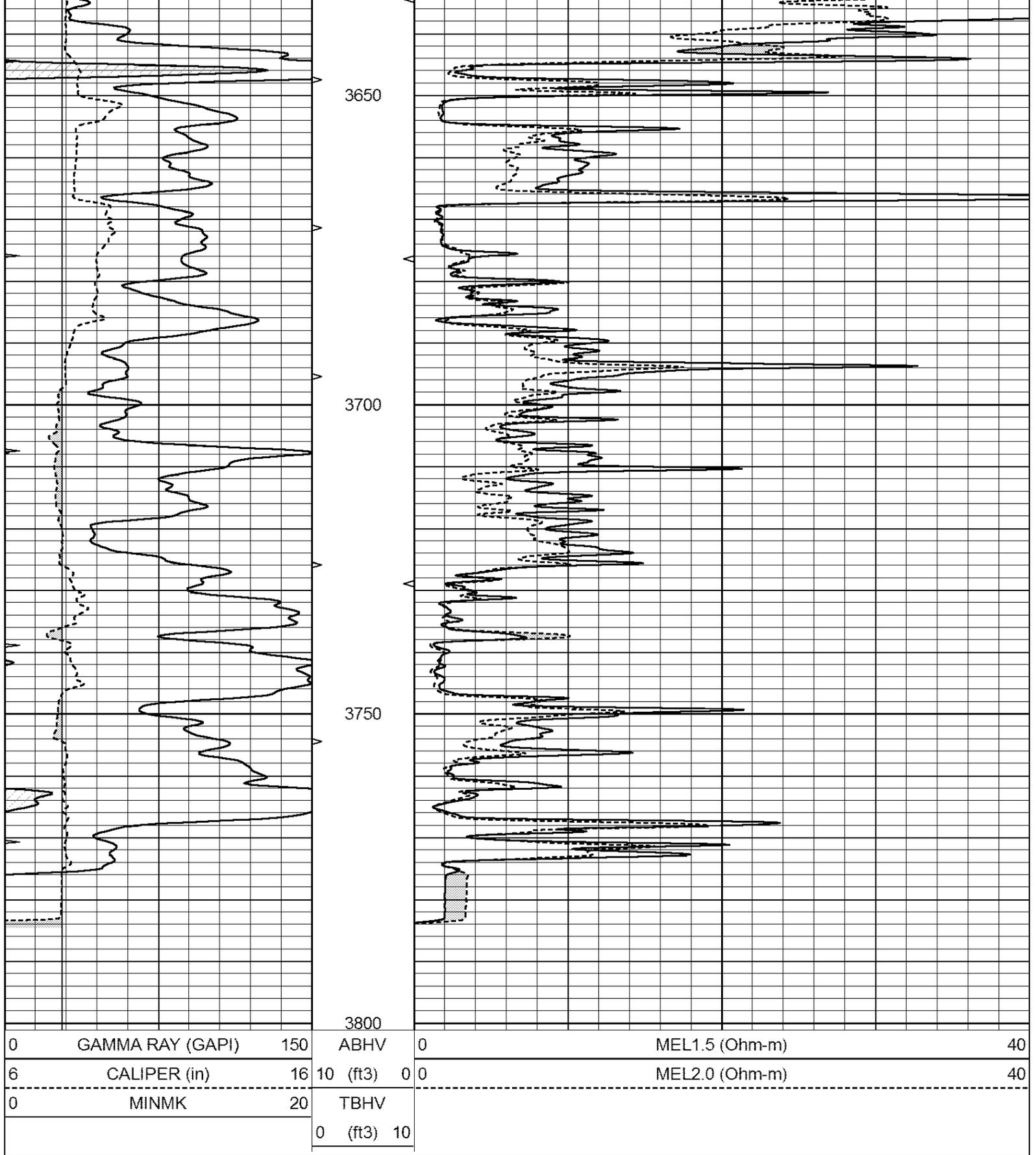


REPEAT SECTION

Database File: 011785pe.db
 Dataset Pathname: pass8.1
 Presentation Format: _micro
 Dataset Creation: Wed Sep 25 20:09:23 2013 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 0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		





Calibration Report

Database File: 011785pe.db
 Dataset Pathname: pass8.1
 Dataset Creation: Wed Sep 25 20:09:23 2013 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO6

Tool Model: PROBE
Performed: Sat Aug 10 00:21:37 2013

Caliper Calibration:	Gain=5.542	Offset=-1.420
References	Low Cal	High Cal
Readings	8.000	14.000
	1.431	2.513

1.5" Calibration:	Gain=33.075	Offset=-0.700
References	Low Cal	High Cal
Readings	0.000	20.000
	0.004	1.196

2" Calibration:	Gain=55.041	Offset=-1.000
References	Low Cal	High Cal
Readings	0.000	20.000
	0.006	0.913

Gamma Ray Calibration Report

Serial Number: #8
Tool Model: OPEN
Performed: Tue Jun 18 19:34:11 2013

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 175.0 cps

Sensitivity: 0.8371 GAPI/cps