



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company DOWNING - NELSON OIL CO., INC.
Well LW #1-18
Field RIGA NORTHWEST
County TREGO State KANSAS

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Location: API #: 15-195-22817
1225' FNL & 930' FWL
SEC 18 TWP 13S RGE 21W
Permanent Datum GROUND LEVEL Elevation 2210
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
DIL
Elevation
K.B. 2218
D.F.
G.L. 2210

Date	10-23-12
Run Number	TW0
Depth Driller	4080
Depth Logger	4080
Bottom Logged Interval	4078
Top Log Interval	3200
Casing Driller	220
Casing Logger	219
Bit Size	7.875
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.3 / 57
pH / Fluid Loss	10.0 / 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.00 @ 62F
Rmf @ Meas. Temp	0.75 @ 62F
Rmc @ Meas. Temp	1.20 @ 62F
Source of Rmf / Rmc	MEASURED
Rm @ BHT	.530 @ 116F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	9:45 A.M.
Maximum Recorded Temperature	116F
Equipment Number	860
Location	HAYS, KS.
Recorded By	RUPP
Witnessed By	RON NELSON

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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 CO.
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: ELLIS & OLD #40, W TO 360th, 2 1/8S TO TANK BATTERIES, 200'W, N & W INTO ON THE LEASE RD.



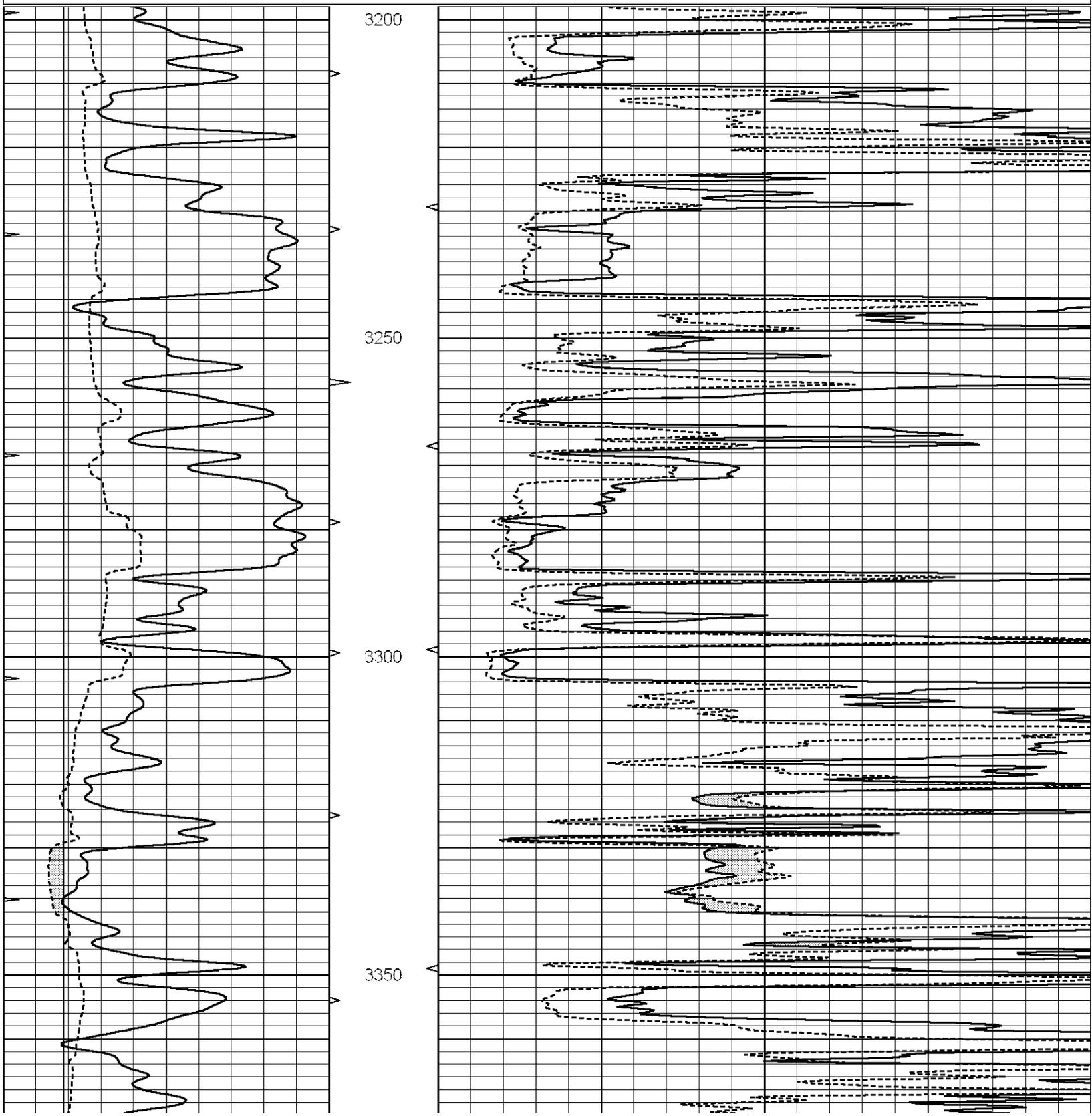
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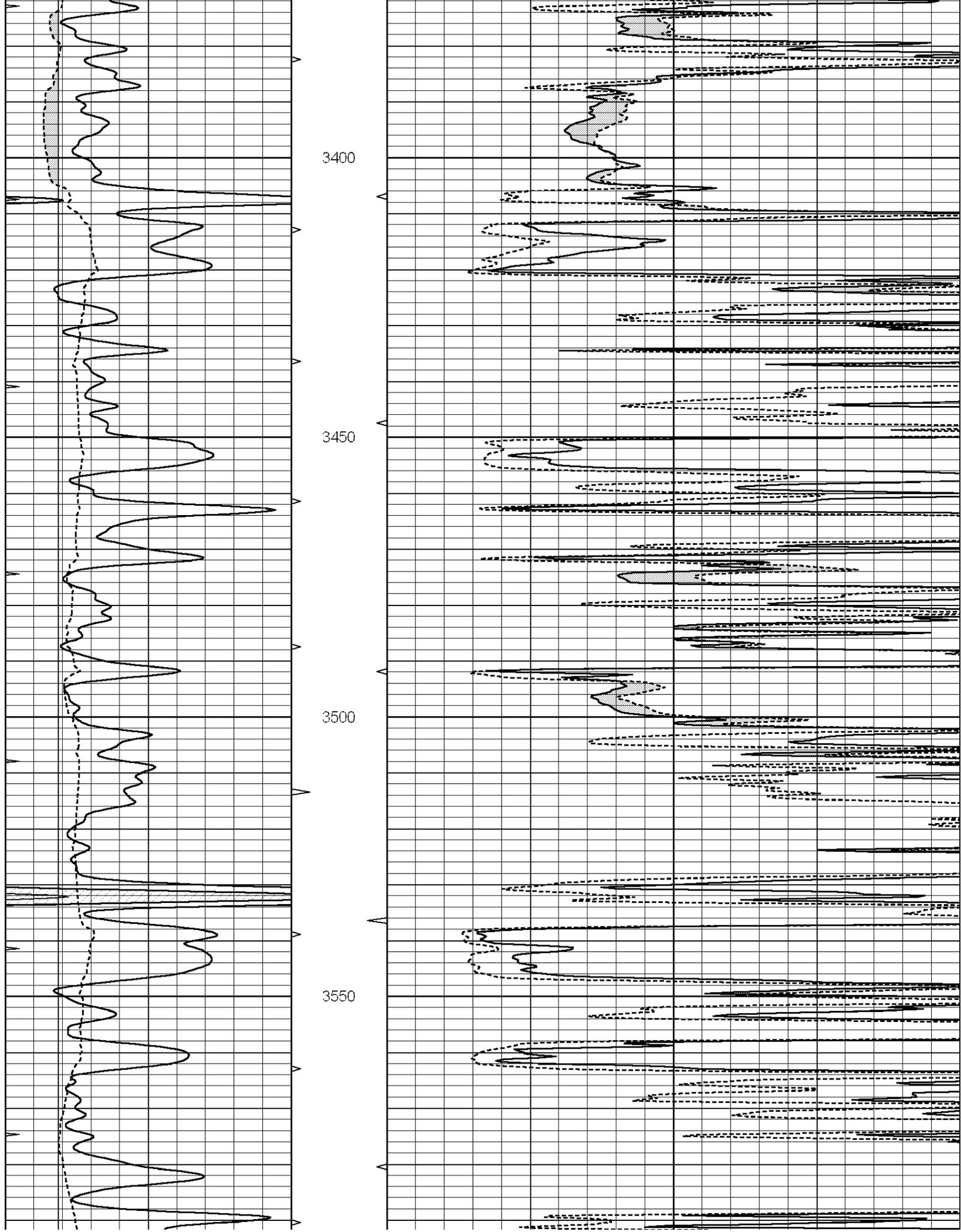
MAIN SECTION

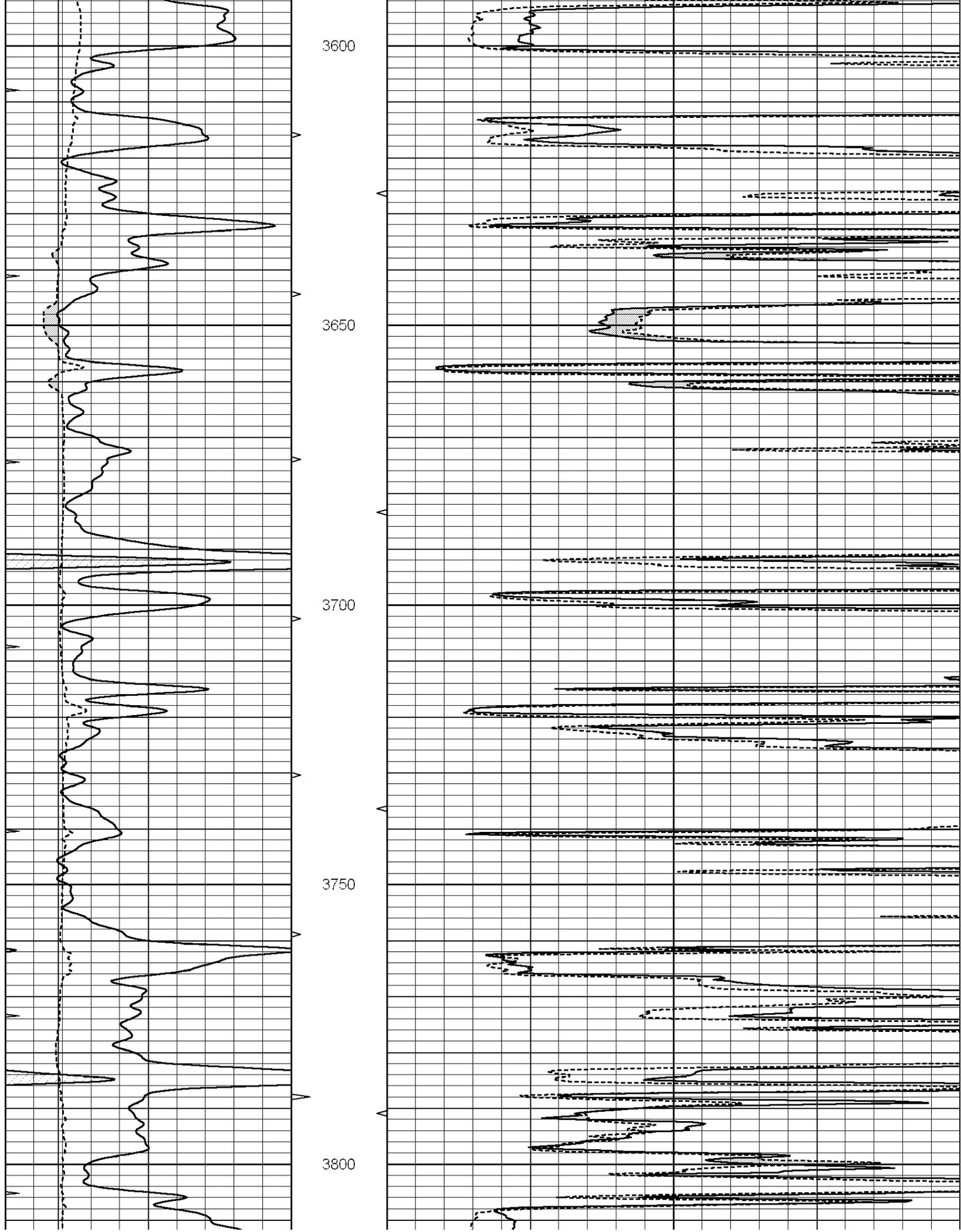
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 Dataset Pathname: pass6.1A
 Presentation Format: micro
 Dataset Creation: Tue Oct 23 12:58:45 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

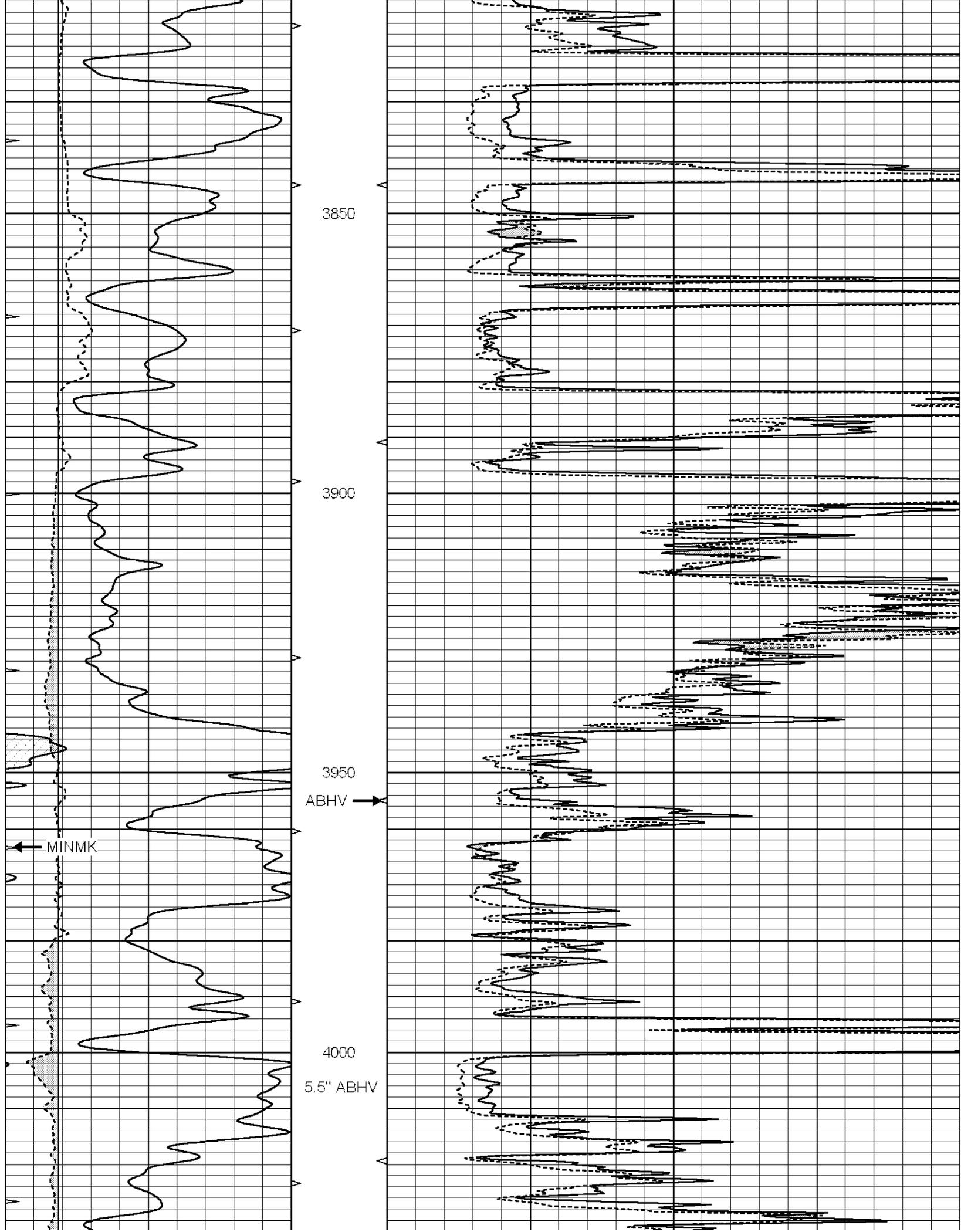
0	GAMMA RAY (GAPI)	150
6	MELCAL (in)	16
0	MINMK	20

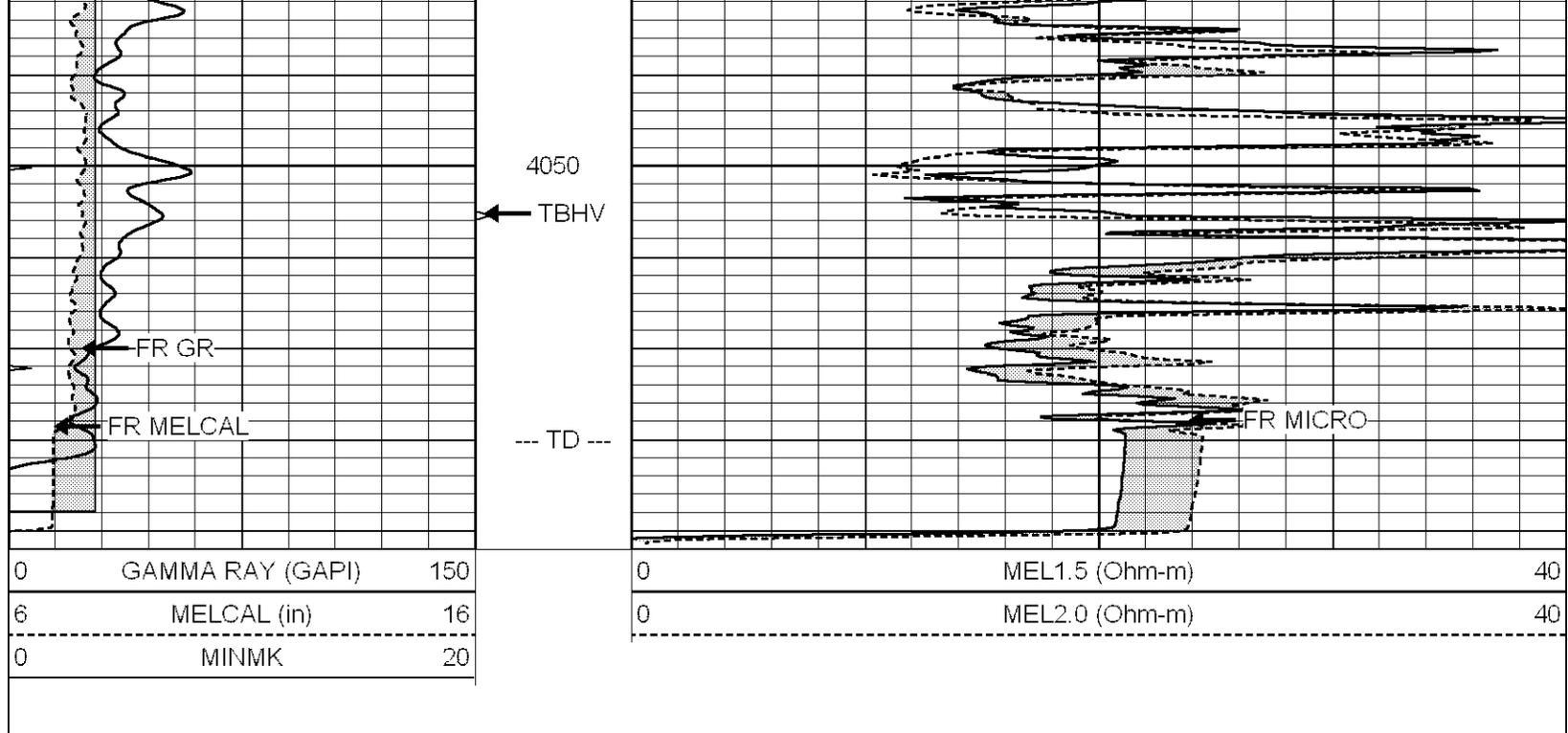
0	MEL1.5 (Ohm-m)	40
0	MEL2.0 (Ohm-m)	40









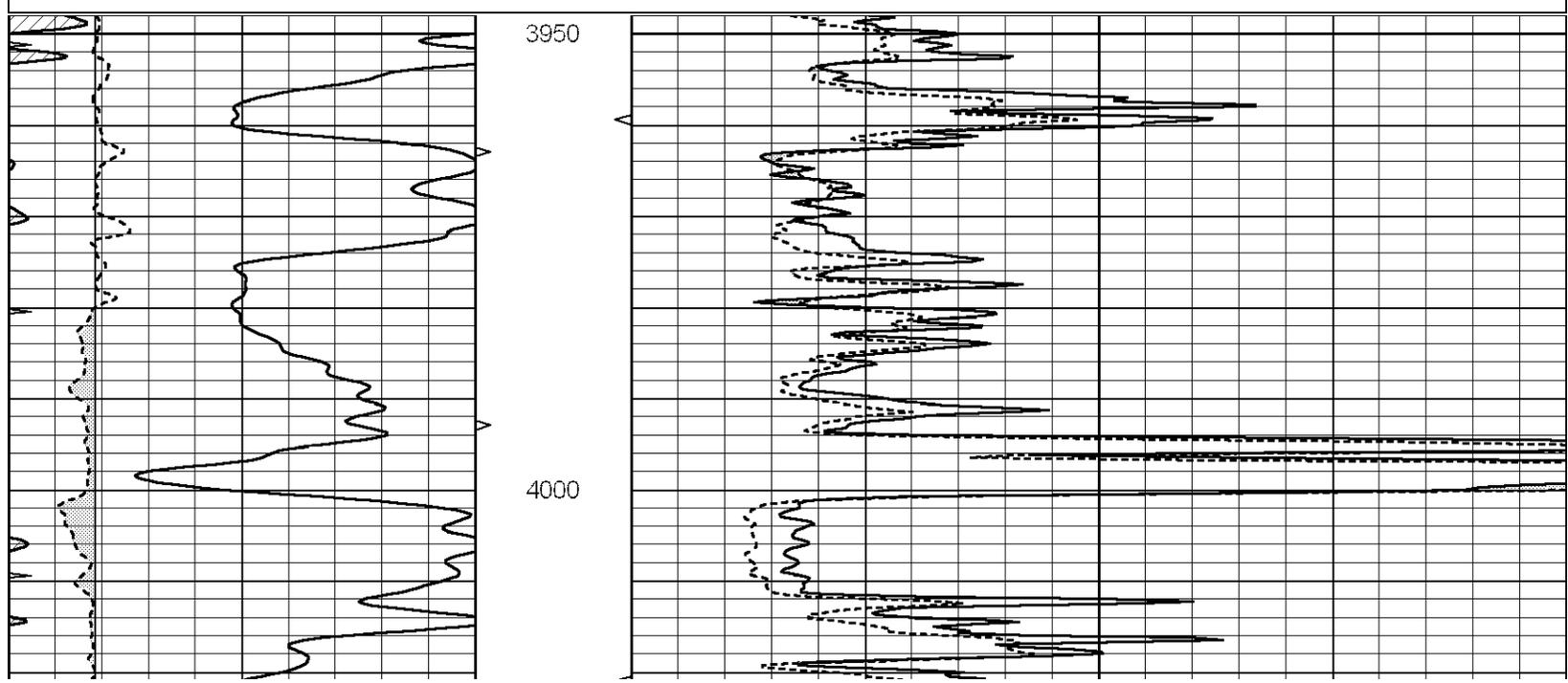


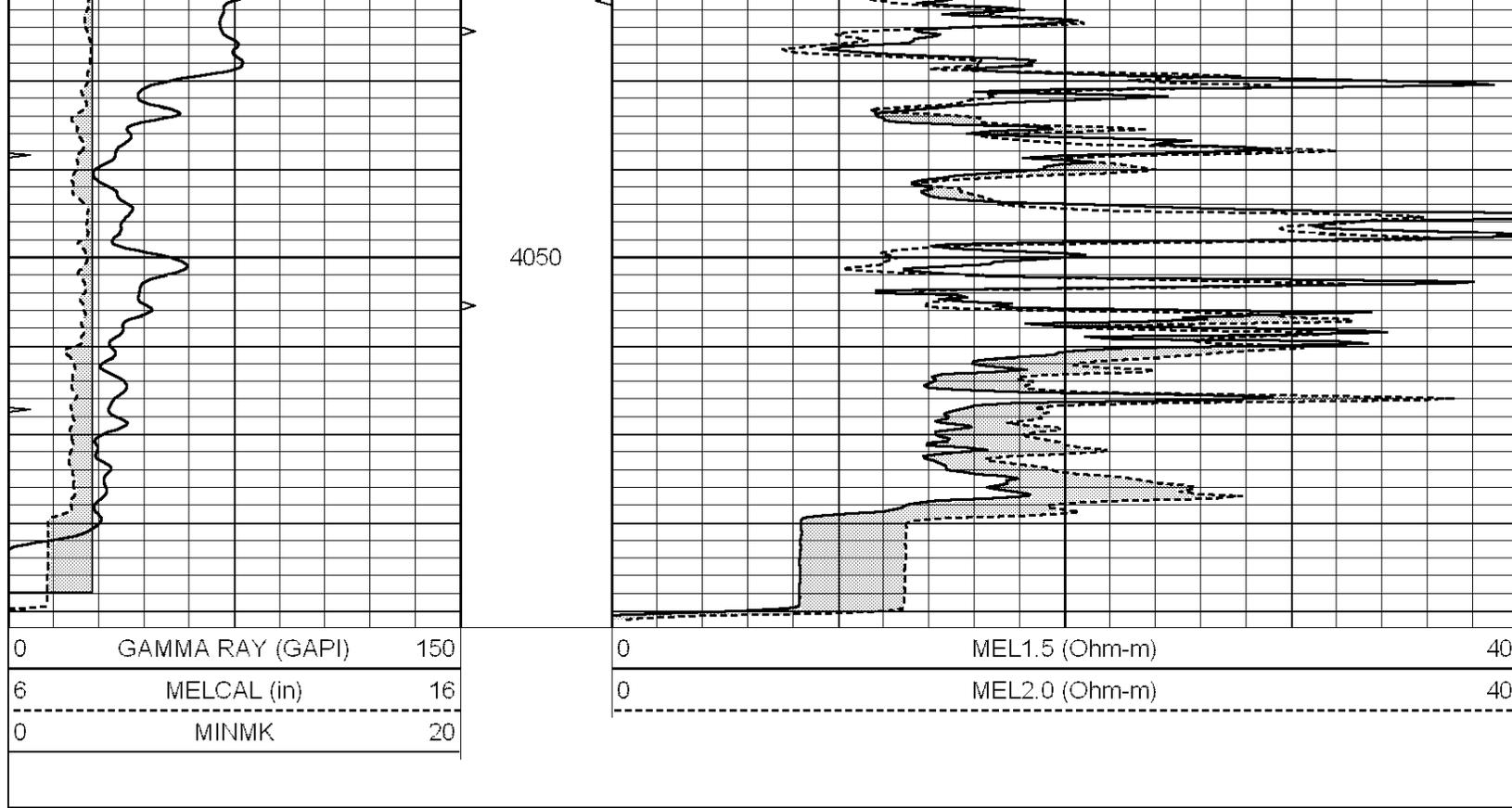
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REPEAT SECTION

Database File: 009937ddn.db
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 Presentation Format: micro
 Dataset Creation: Tue Oct 23 13:09:07 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0	MEL1.5 (Ohm-m)	40
6	MELCAL (in)	16	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	-----		





Calibration Report

Database File: 009937ddn.db
 Dataset Pathname: pass6.1A
 Dataset Creation: Tue Oct 23 12:58:45 2012 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number:	MICRO4	
Tool Model:	PROBE	
Performed:	Tue Oct 23 12:54:01 2012	
Caliper Calibration:	Gain=1.700	Offset=-1.963
References	Low Cal 7.300	High Cal 12.000
Readings	5.449	8.214
1.5" Calibration:	Gain=47.000	Offset=-0.700
References	Low Cal 0.000	High Cal 20.000
Readings	0.009	1.541
2" Calibration:	Gain=42.000	Offset=0.600
References	Low Cal 0.000	High Cal 20.000
Readings	0.004	1.198

Gamma Ray Calibration Report

Serial Number:	GR5	
Tool Model:	OPEN	
Performed:	Tue Oct 23 12:47:35 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Calibrator Reading:

1.0

cps

Sensitivity:

0.7400

GAPI/cps