



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company	HERTEL OIL COMPANY, LLC.		
Well	ALLENBAUGH #1		
Field			
County	ELLIS	State	KANSAS
Location:	API # : 15-051-26624	Other Services CDL/CNL DIL	
SEC 30 TWP 14S RGE 19W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2126
Log Measured From	KELLY BUSHING 8' A.G.L.	K.B. 2134	D.F.
Drilling Measured From	KELLY BUSHING	G.L. 2126	
Date	11-24-13		
Run Number	TWO		
Depth Driller	3833		
Depth Logger	3838		
Bottom Logged Interval	3835		
Top Log Interval	3000		
Casing Driller	222		
Casing Logger	222		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.1 / 52		
pH / Fluid Loss	10.5 / 6.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.85 @ 72F		
Rmf @ Meas. Temp	0.64 @ 72F		
Rmc @ Meas. Temp	1.02 @ 72F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.540 @ 113F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	10:30 P.M.		
Maximum Recorded Temperature	113F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	HERB DEINES	CHRIS NEELEY	

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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
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: ANTONINO, 4W, 1N, 1/2W, N INTO.



NABORS

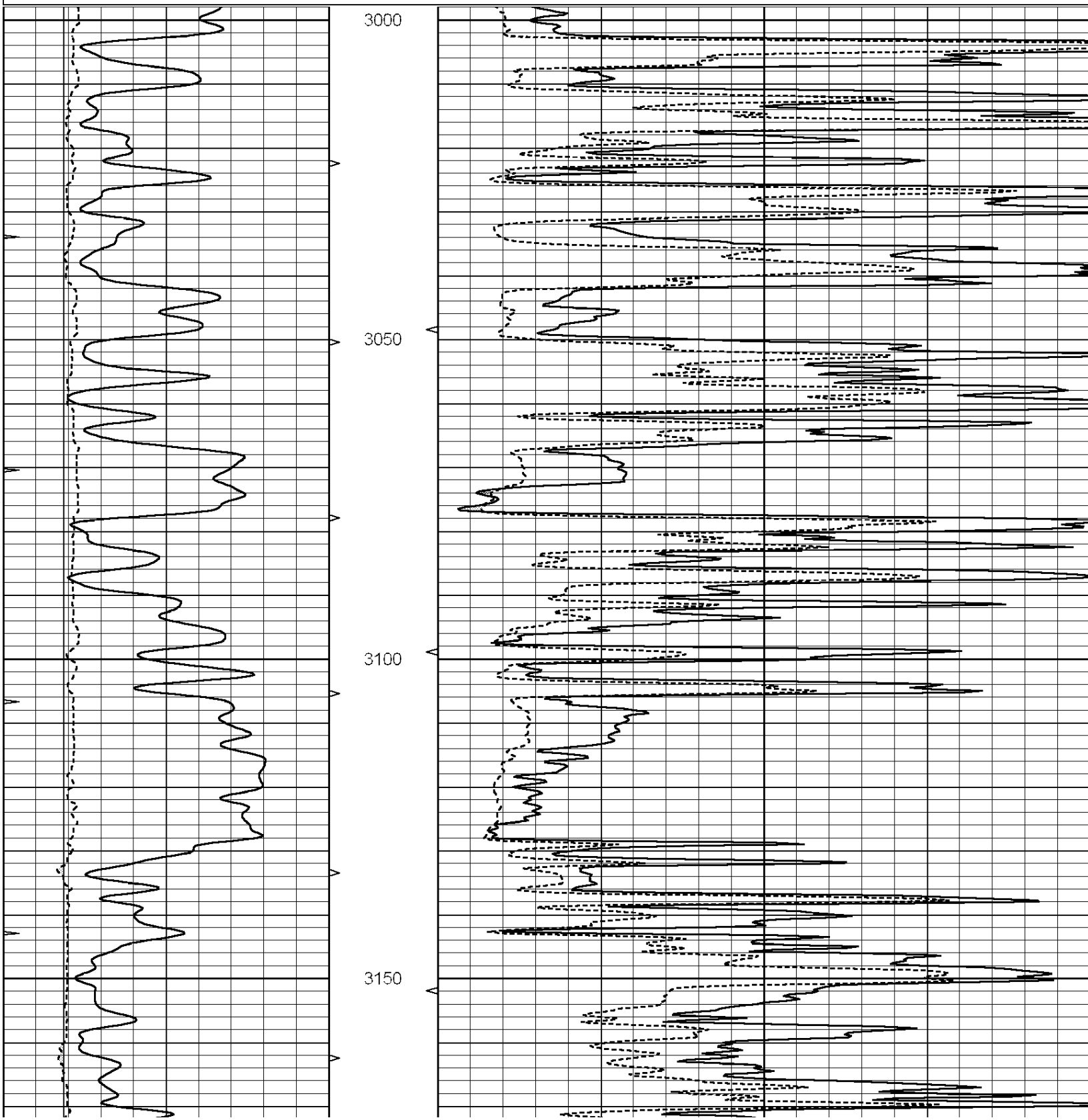
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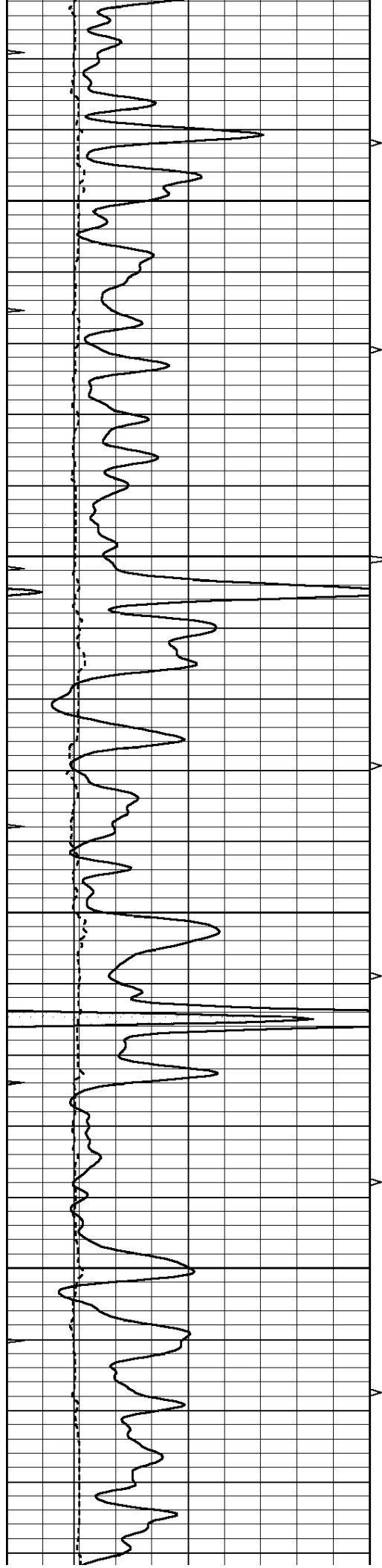
MAIN SECTION

Database File: 012044ddn.db
 Dataset Pathname: pass5.3
 Presentation Format: _micro
 Dataset Creation: Mon Nov 25 01:11:40 2013 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



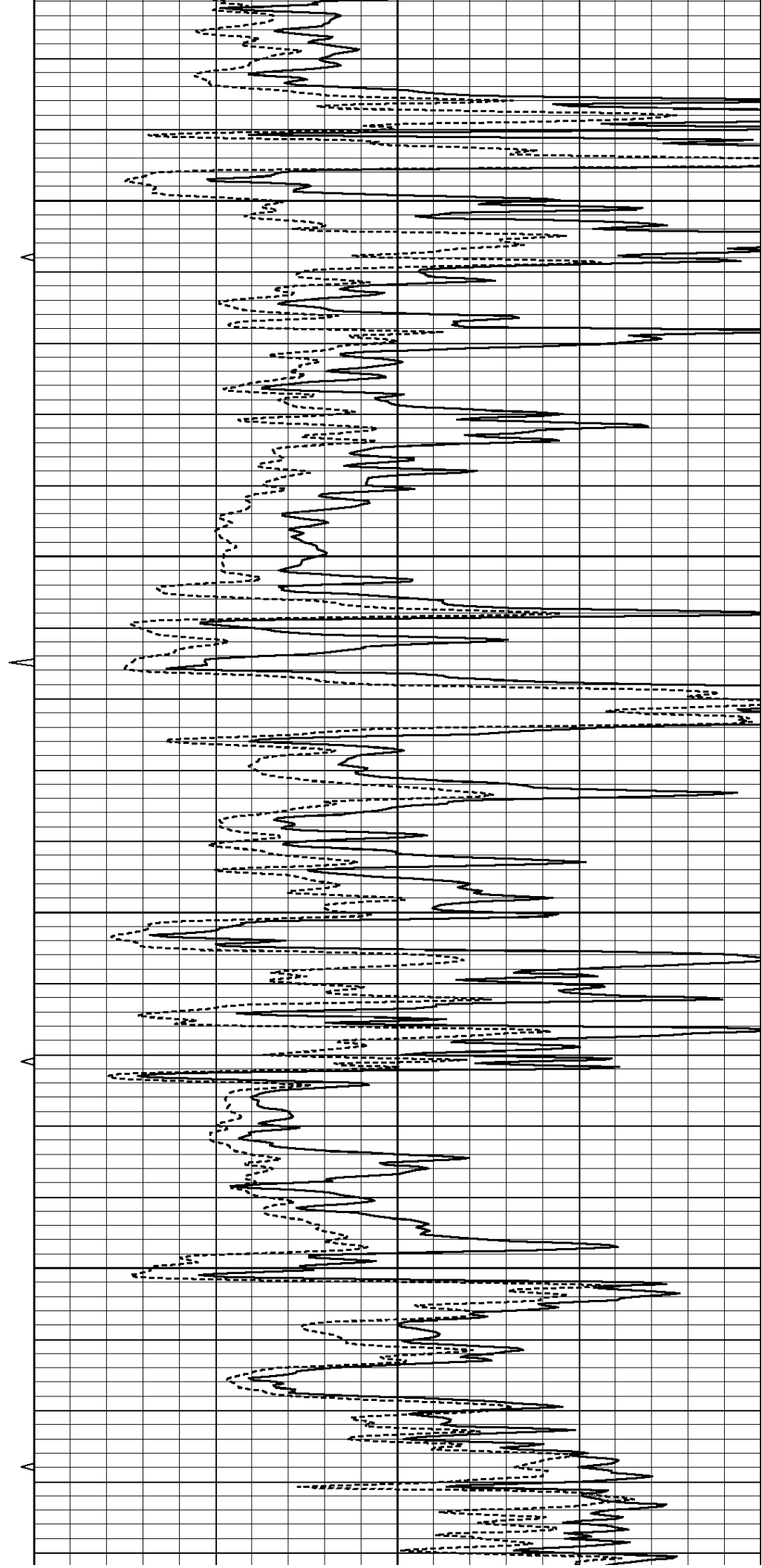


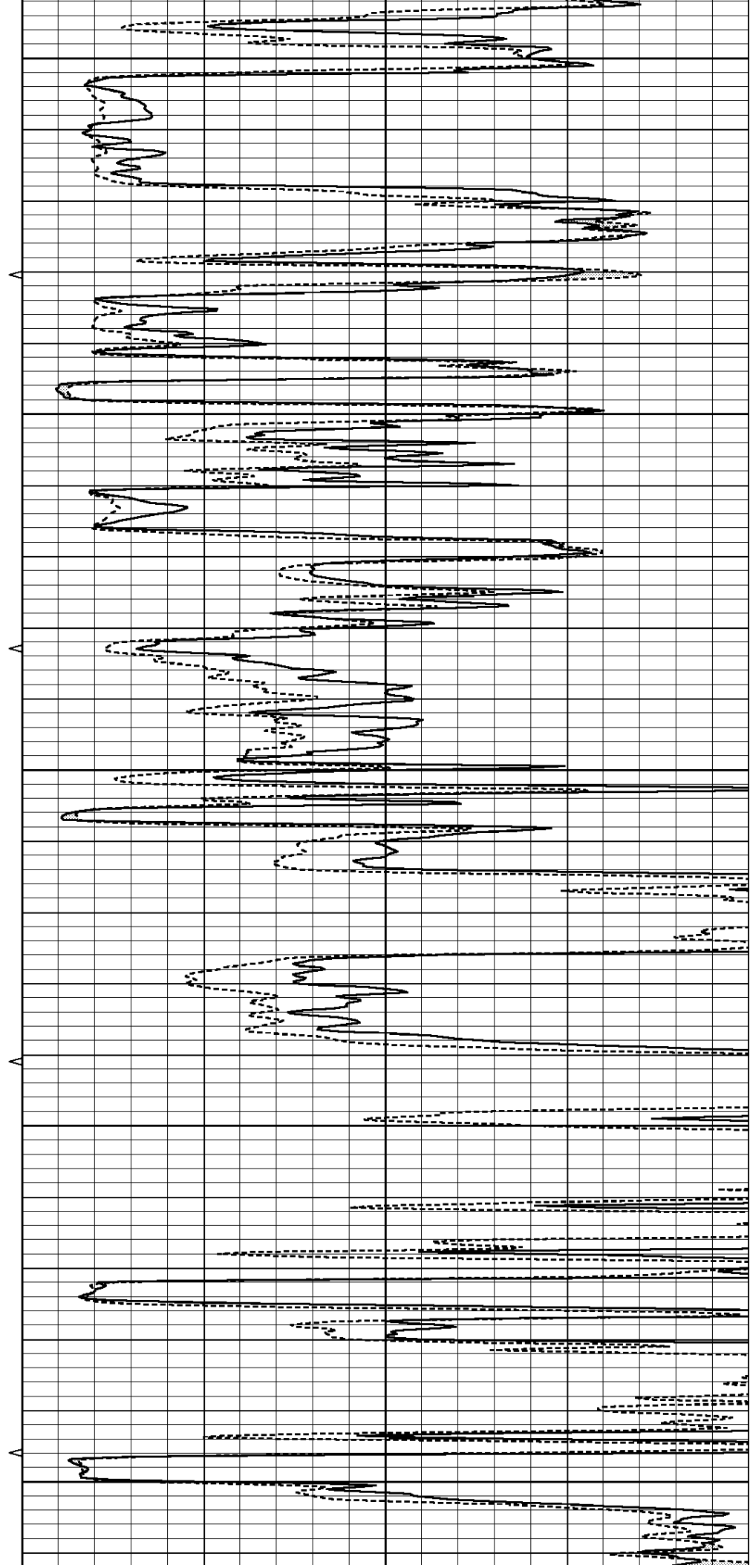
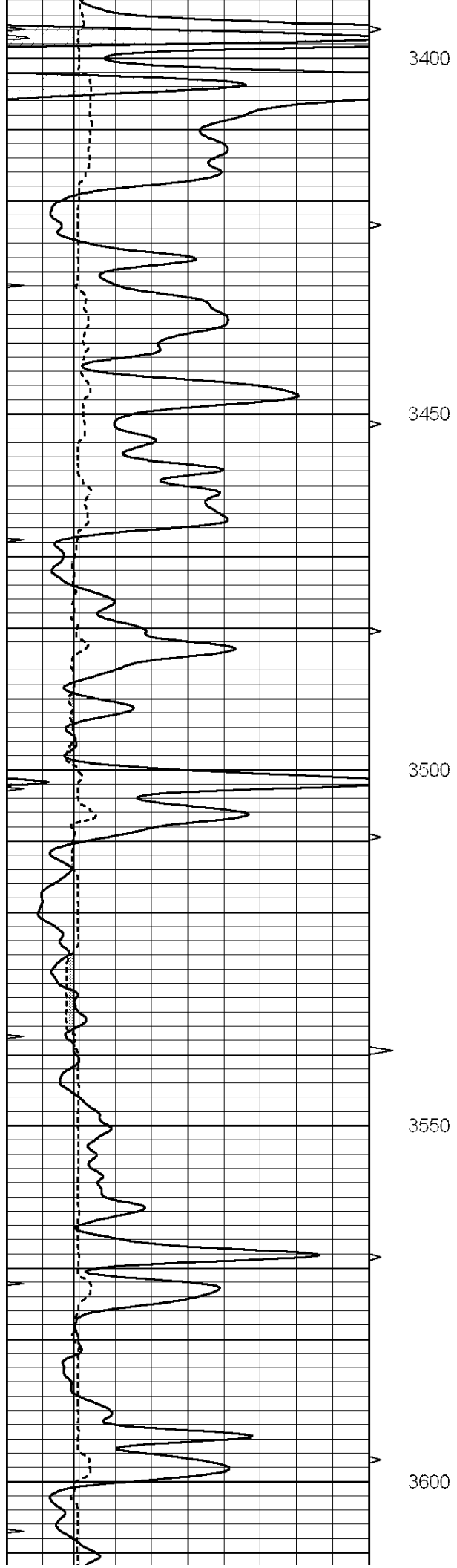
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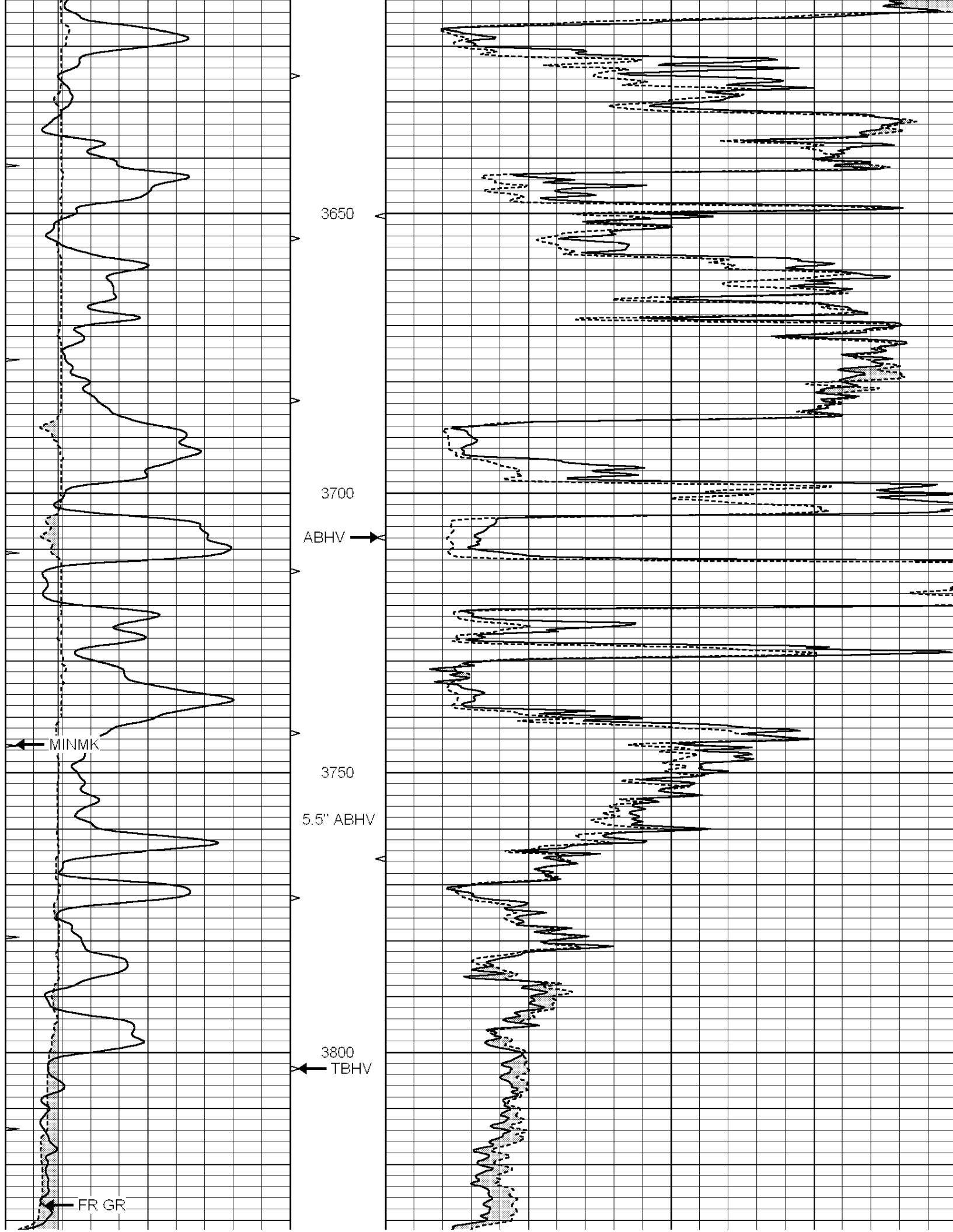
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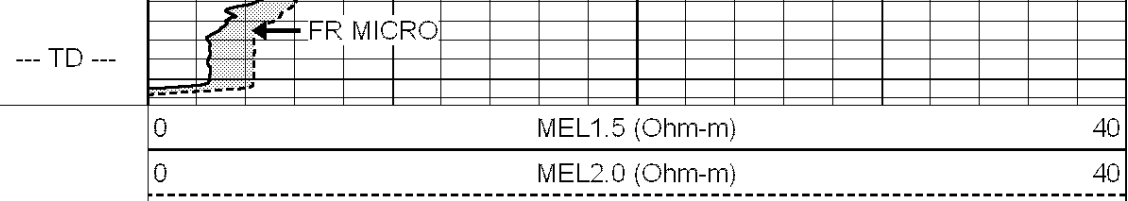
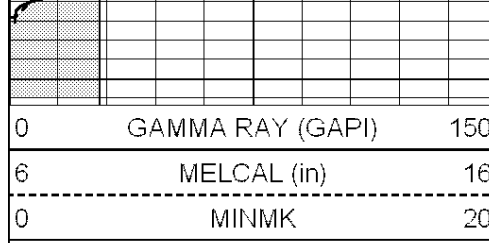
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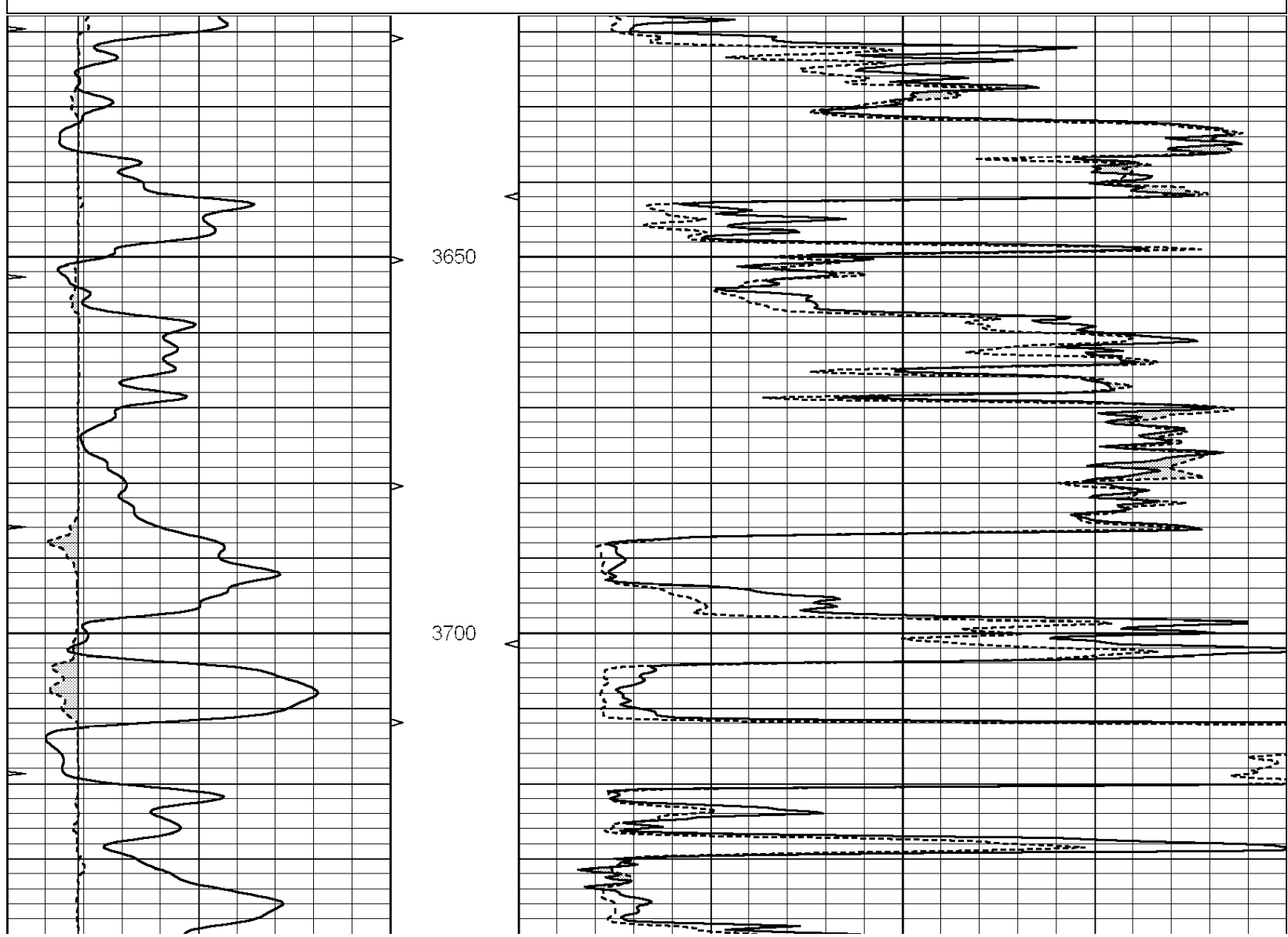
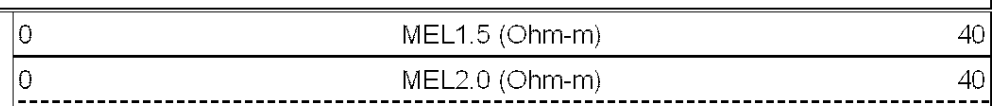
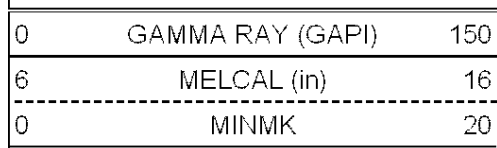


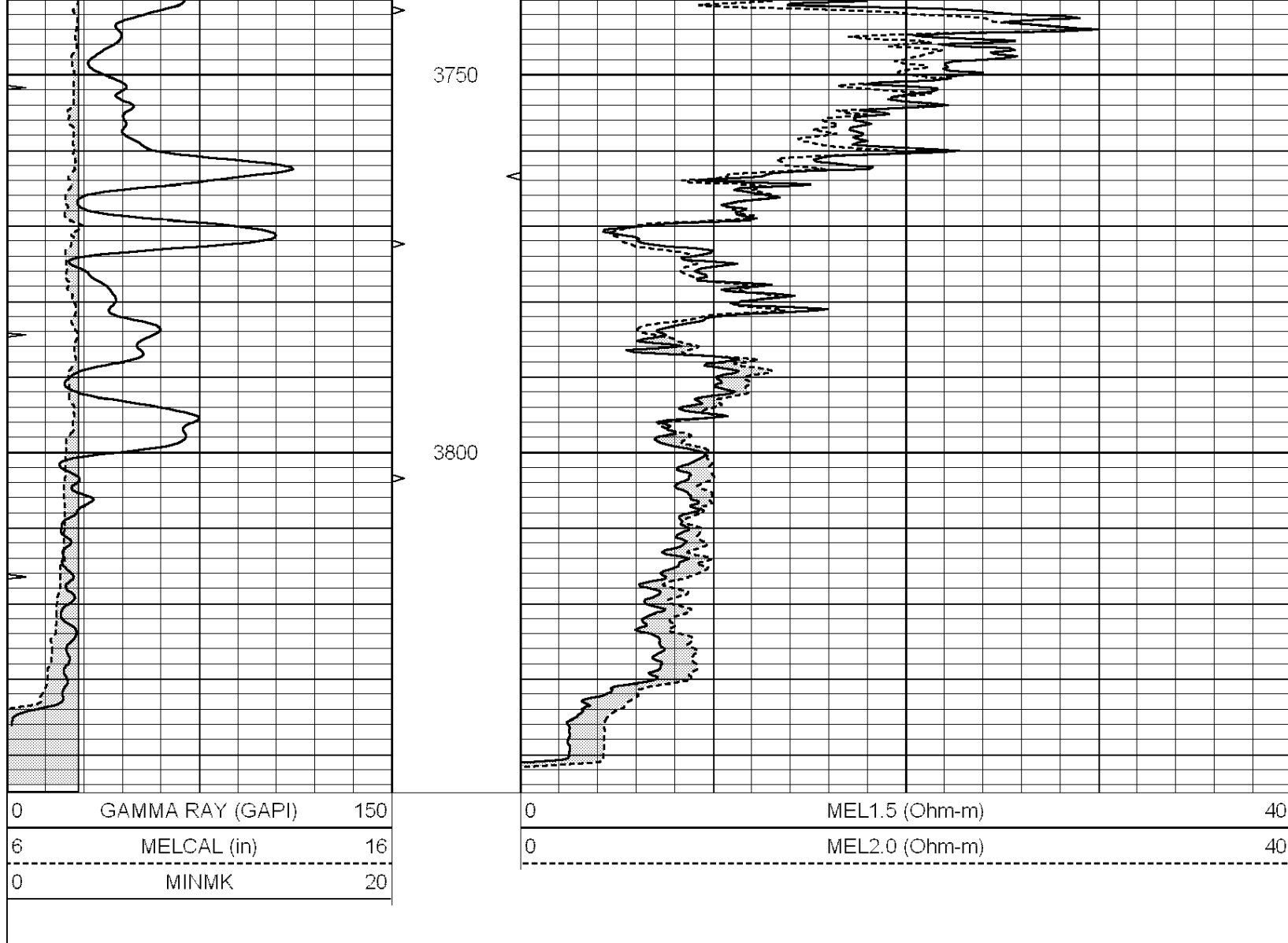




REPEAT SECTION

Database File: 012044ddn.db
 Dataset Pathname: pass4.3
 Presentation Format: _micro
 Dataset Creation: Mon Nov 25 01:23:43 2013
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 012044ddn.db
 Dataset Pathname: pass5.3
 Dataset Creation: Mon Nov 25 01:11:40 2013 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number: Micro1
 Tool Model: ProbeL
 Performed: Mon Nov 25 00:38:05 2013

Caliper Calibration: Gain=2.606 Offset=-1.400

References	Low Cal	High Cal
Readings	7.400	12.000
	3.327	5.092

1.5" Calibration: Gain=155.000 Offset=-4.500

References	Low Cal	High Cal
Readings	0.000	20.000
	0.010	0.717

2" Calibration: Gain=48.000 Offset=-0.400

References	Low Cal	High Cal
Readings	0.000	20.000
	0.025	0.821

Readings:

0.020

0.021

Gamma Ray Calibration Report

Serial Number:	GR5	
Tool Model:	OPEN	
Performed:	Mon Nov 25 00:29:00 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7800	GAPI/cps