



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company		VALHALLA EXPLORATION, LLC.	
Well		KK #1-27	
Field		ORTH	
County		RICE	
State		KANSAS	
Company		VALHALLA EXPLORATION, LLC.	
Well		KK #1-27	
Field		ORTH	
County		RICE	
State		KANSAS	
Location:		API # : 15-159-22776-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 9' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 27 TWP 18S RGE 10W		Elevation	
1650' FSL & 1315' FWL		K.B. 1755	
		D.F. 1753	
		G.L. 1746	
Date		5/12/14	
Run Number		TWO	
Depth Driller		3230	
Depth Logger		3231	
Bottom Logged Interval		3215	
Top Log Interval		2400	
Casing Driller		8 5/8"@349'	
Casing Logger		350	
Bit Size		7 7/8"	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.2/52	
pH / Fluid Loss		11.0/8.0	
Source of Sample		FLOWLINE	
Rim @ Meas. Temp		.650@80F	
Rmf @ Meas. Temp		.488@80F	
Rmc @ Meas. Temp		.780@80F	
Source of Rmf / Rmc		MEASUREMENT	
Rim @ BHT		.477@109F	
Time Circulation Stopped		3.5 HOURS	
Time Logger on Bottom		12.45 P.M.	
Maximum Recorded Temperature		109F	
Equipment Number		4854	
Location		HAYS, KANSAS	
Recorded By		JEFF LUEBBERS	
Witnessed By		DEREK PATTERSON	

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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, KANSAS (785) 628-6395
DIRECTIONS
CLAFLIN, KS., 6E. ON HWY 4 TO "RD. 4", 4S., E. INTO



NABORS

**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File:

24152ddn.db

Dataset Pathname:

pass6.4

Presentation Format:

micro

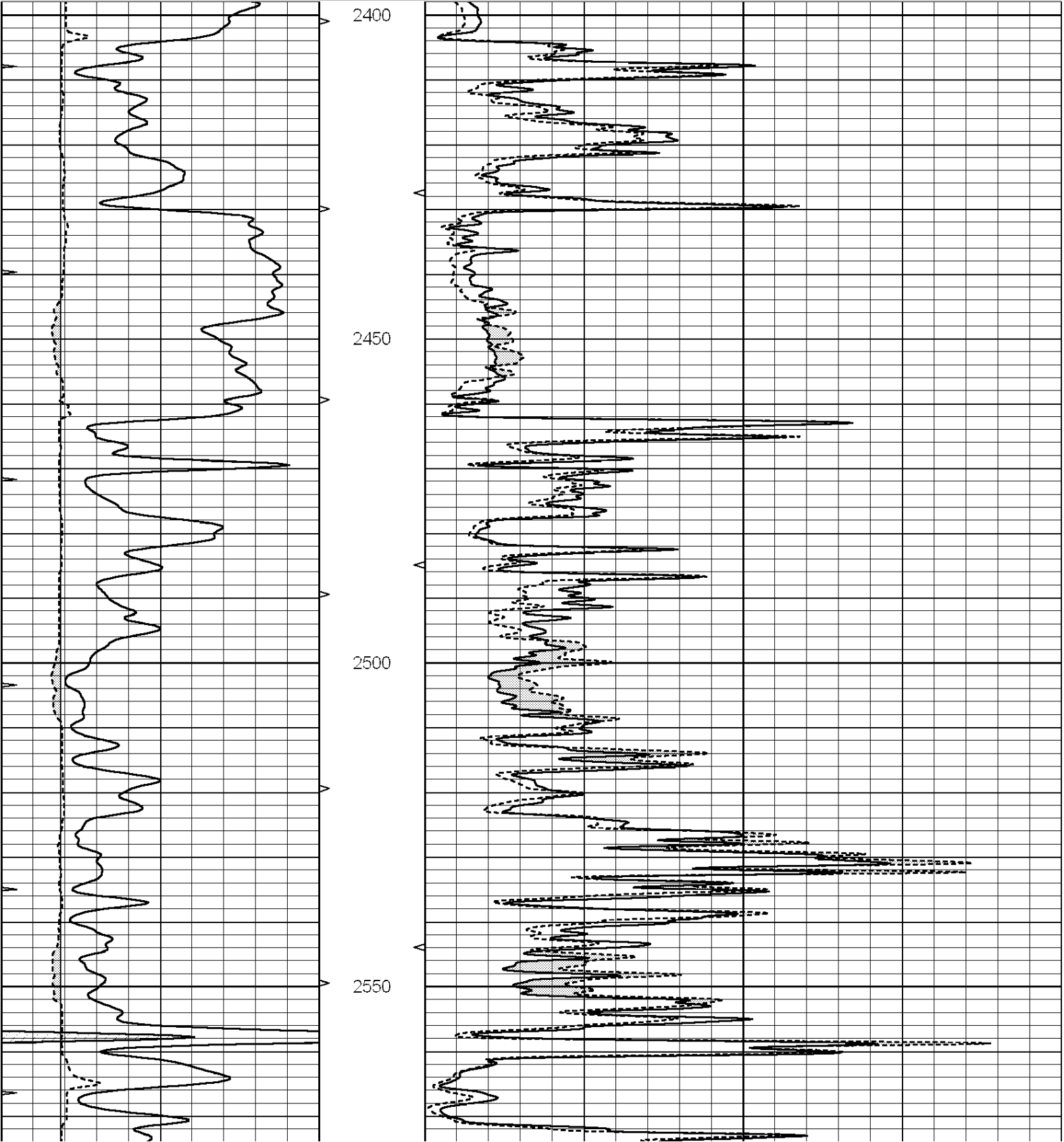
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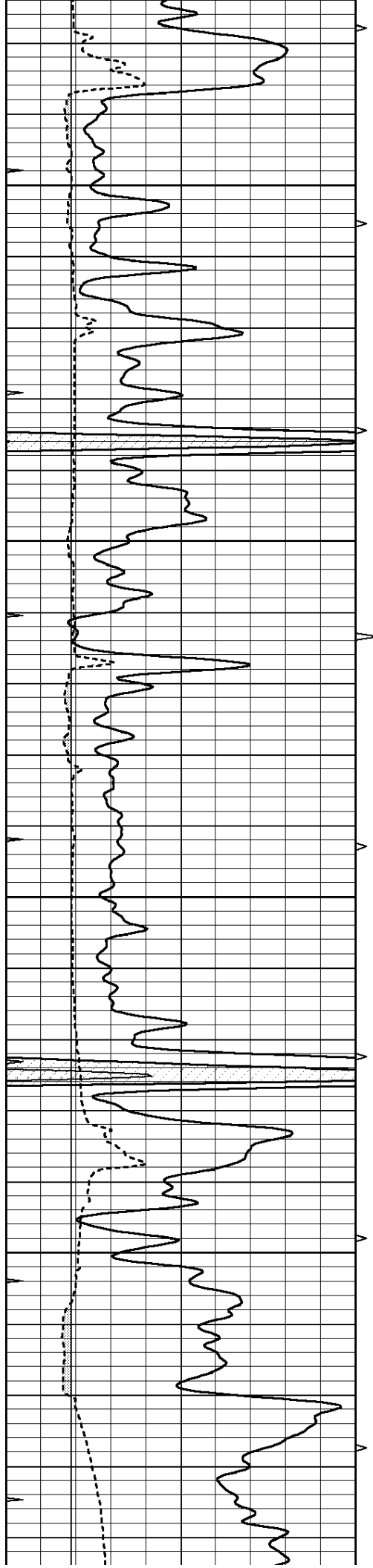
Mon May 12 16:25:21 2014

Charted by:

Depth in Feet scaled 1:240

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



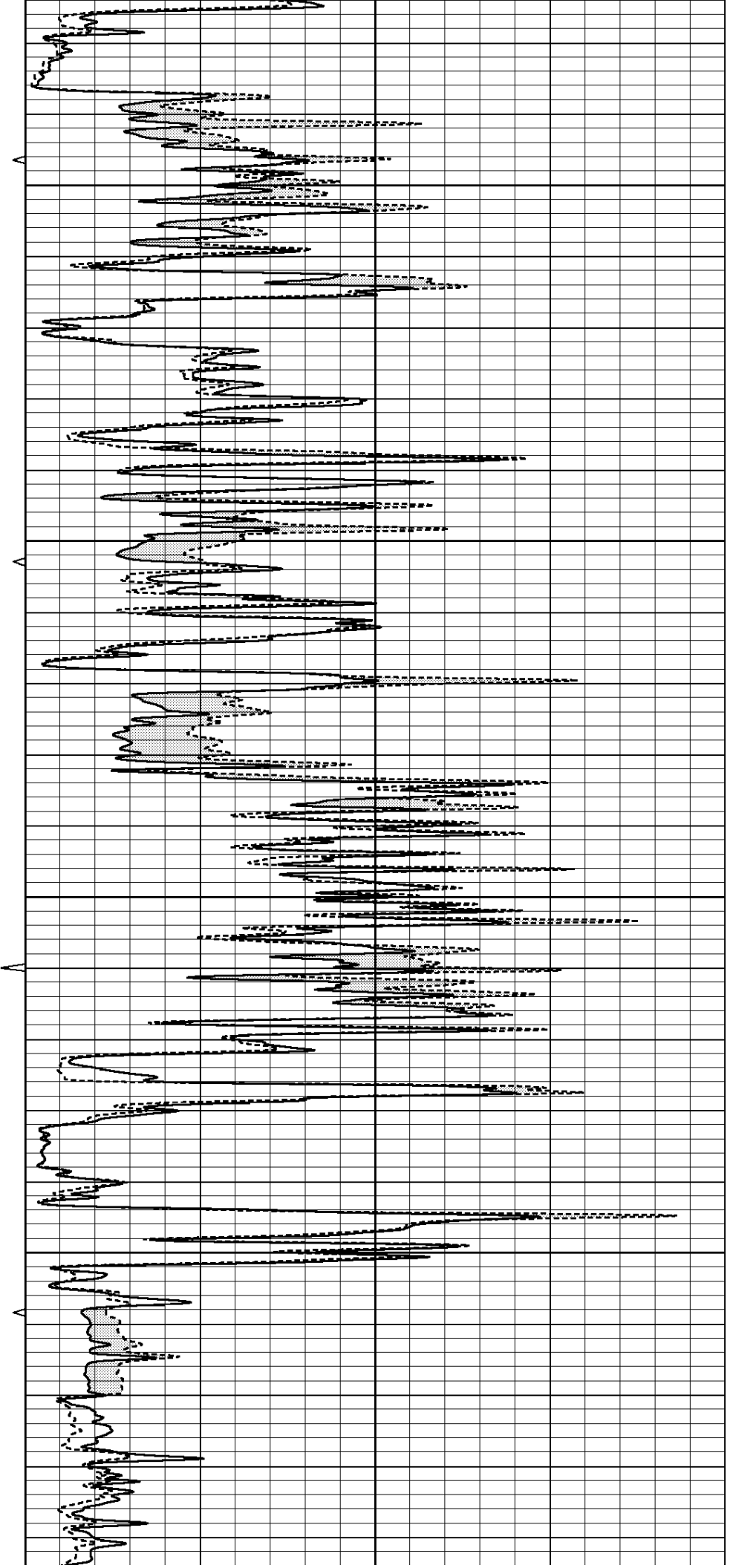


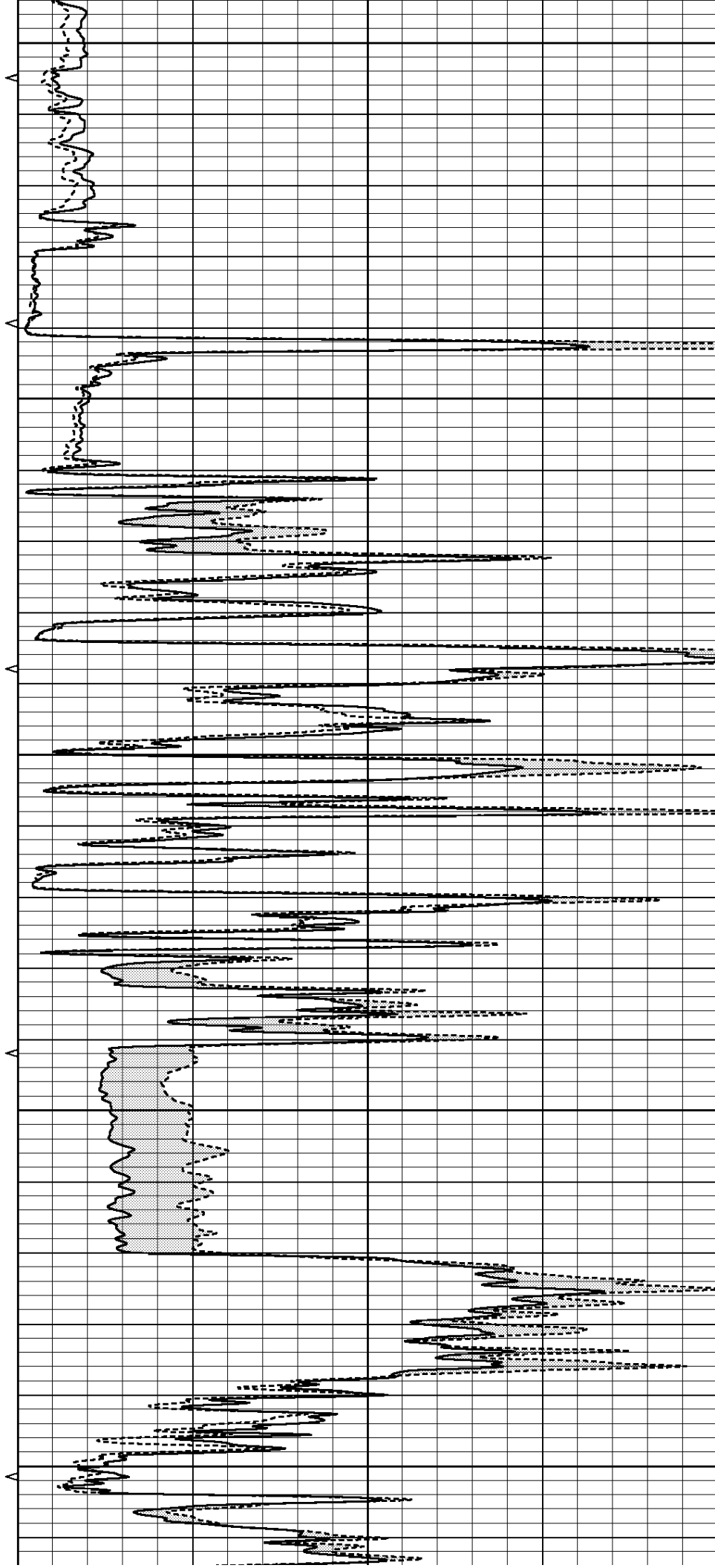
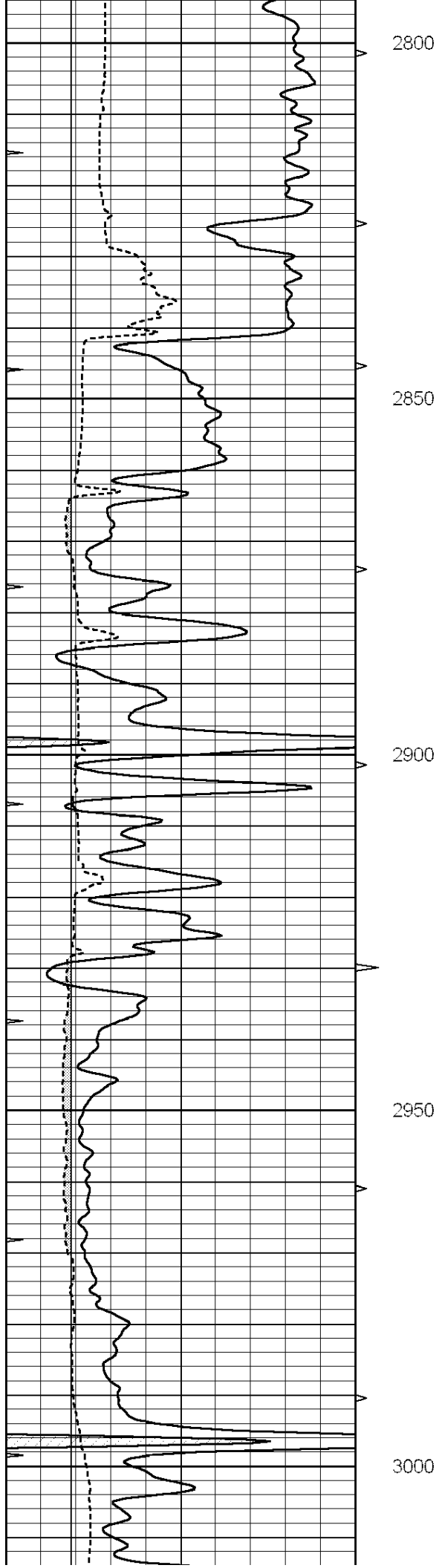
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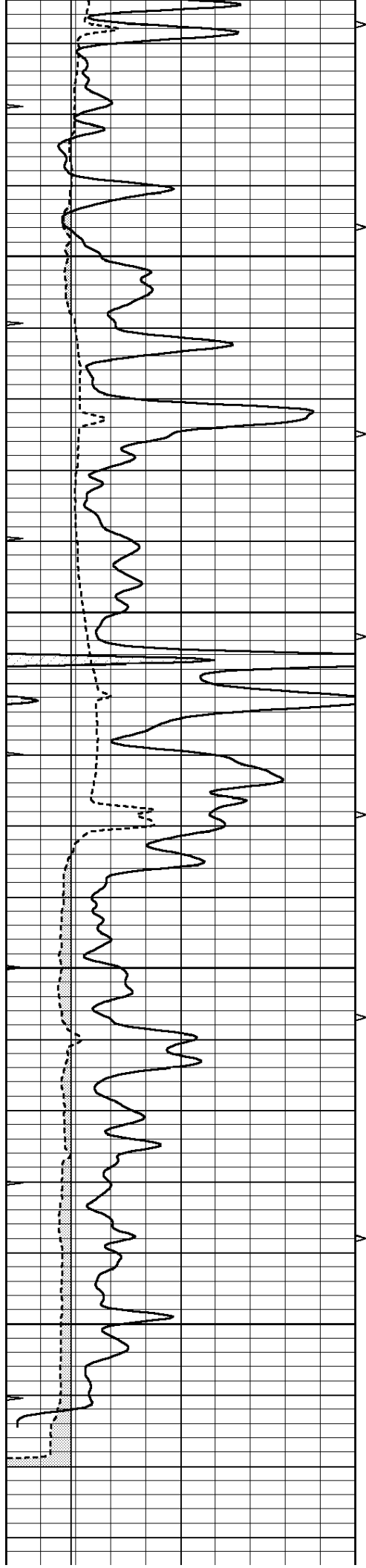
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2700

2750





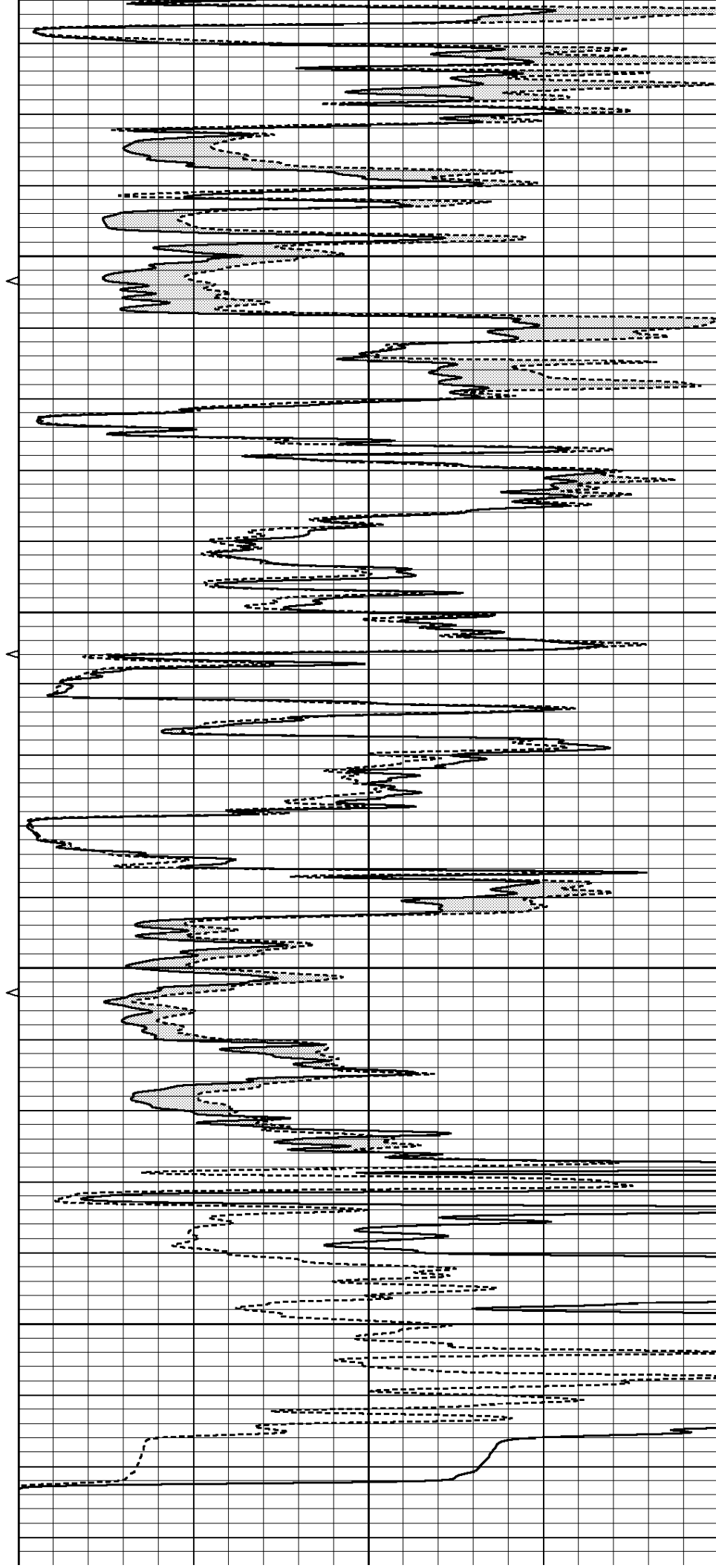


3050

3100

3150

3200



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

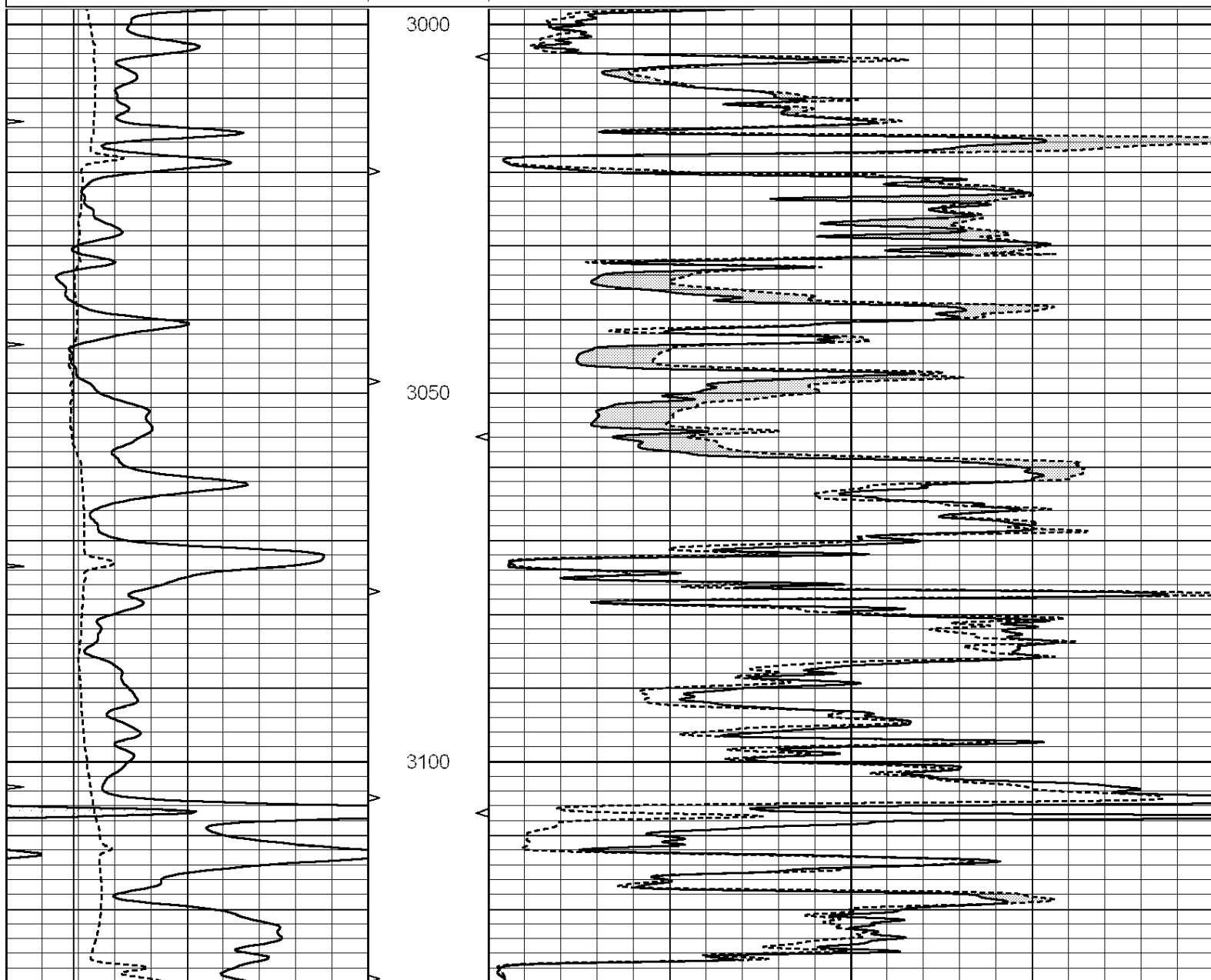


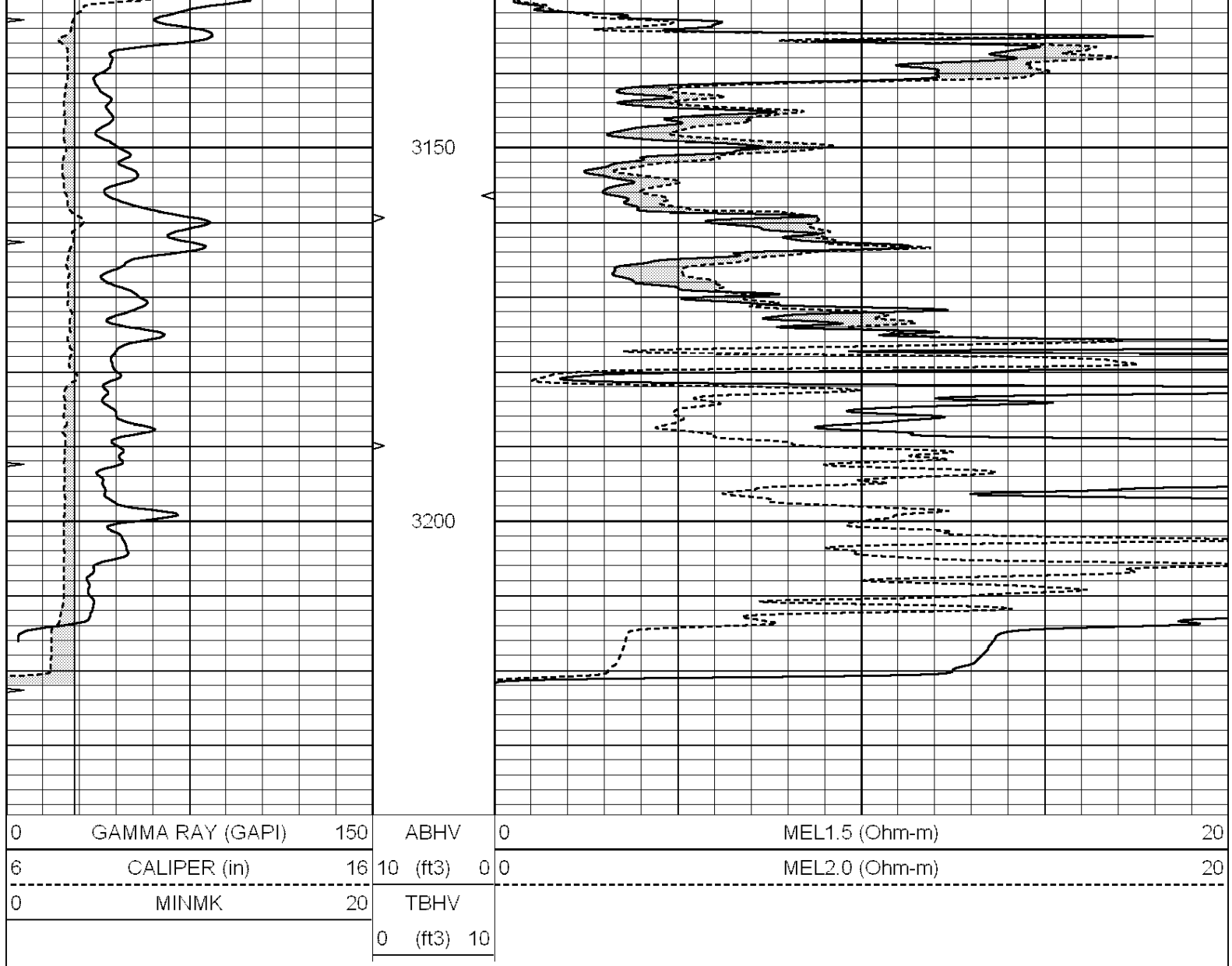
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REPEAT SECTION

Database File: 24152ddn.db
Dataset Pathname: pass5.11
Presentation Format: micro
Dataset Creation: Mon May 12 16:17:02 2014
Charted by: Depth in Feet scaled 1:240

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





Calibration Report

Database File: 24152ddn.db
 Dataset Pathname: pass6.4
 Dataset Creation: Mon May 12 16:25:21 2014

MICRO Calibration Report

Serial Number: 070910
 Tool Model: ProbeN
 Performed: Mon Apr 28 07:45:19 2014

Caliper Calibration: Gain=4.208 Offset=1.270
 References Low Cal High Cal
 Readings 7.800 15.000
 1.552 3.263

1.5" Calibration: Gain=30.000 Offset=0.000
 References Low Cal High Cal
 Readings 0.000 20.000
 0.001 1.229

2" Calibration: Gain=20.000 Offset=-0.600
 References Low Cal High Cal
 Readings 0.000 20.000
 0.001 1.229

References	0.000	20.000
Readings	0.004	1.057
Gamma Ray Calibration Report		
Serial Number:	070559	
Tool Model:	OPEN_GR	
Performed:	Mon Mar 24 02:01:13 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2200	GAPI/cps