



SUPERIOR
Hays,
Kansas

MICRO LOG

Company		TENGASCO, INC.	
Well	ZERGER "A" #1		
Field	WEBSTER		
County	ROOKS	State	KANSAS
Location:		API # : 15-163-24014-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 7' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 21 TWP 8S RGE 19W		Elevation	
1320' FSL & 495' FEL		K.B. 1999	
W/2 - E/2 - E/2 - NE		D.F. 1997	
		G.L. 1992	
CDL/CNL/PE DIL			
Date	4/7/12		
Run Number	TWO		
Depth Driller	3530		
Depth Logger	3532		
Bottom Logged Interval	3530		
Top Log Interval	2700		
Casing Driller	8 5/8"@262'		
Casing Logger	262		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,000 PPM	
Density / Viscosity	9.1/56		
pH / Fluid Loss	10.0/7.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.50@70F		
Rmt @ Meas. Temp	1.13@70F		
Rmc @ Meas. Temp	1.80@70F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.938@112F		
Time Circulation Stopped	3.5 HOURS		
Time Logger on Bottom	1:00 P.M.		
Maximum Recorded Temperature	112F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	CLAYTON ERICKSON	KEITH KARLIN	

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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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
ZURICH, KS. 7 1/2N. ON BLKTOP, W. INTO

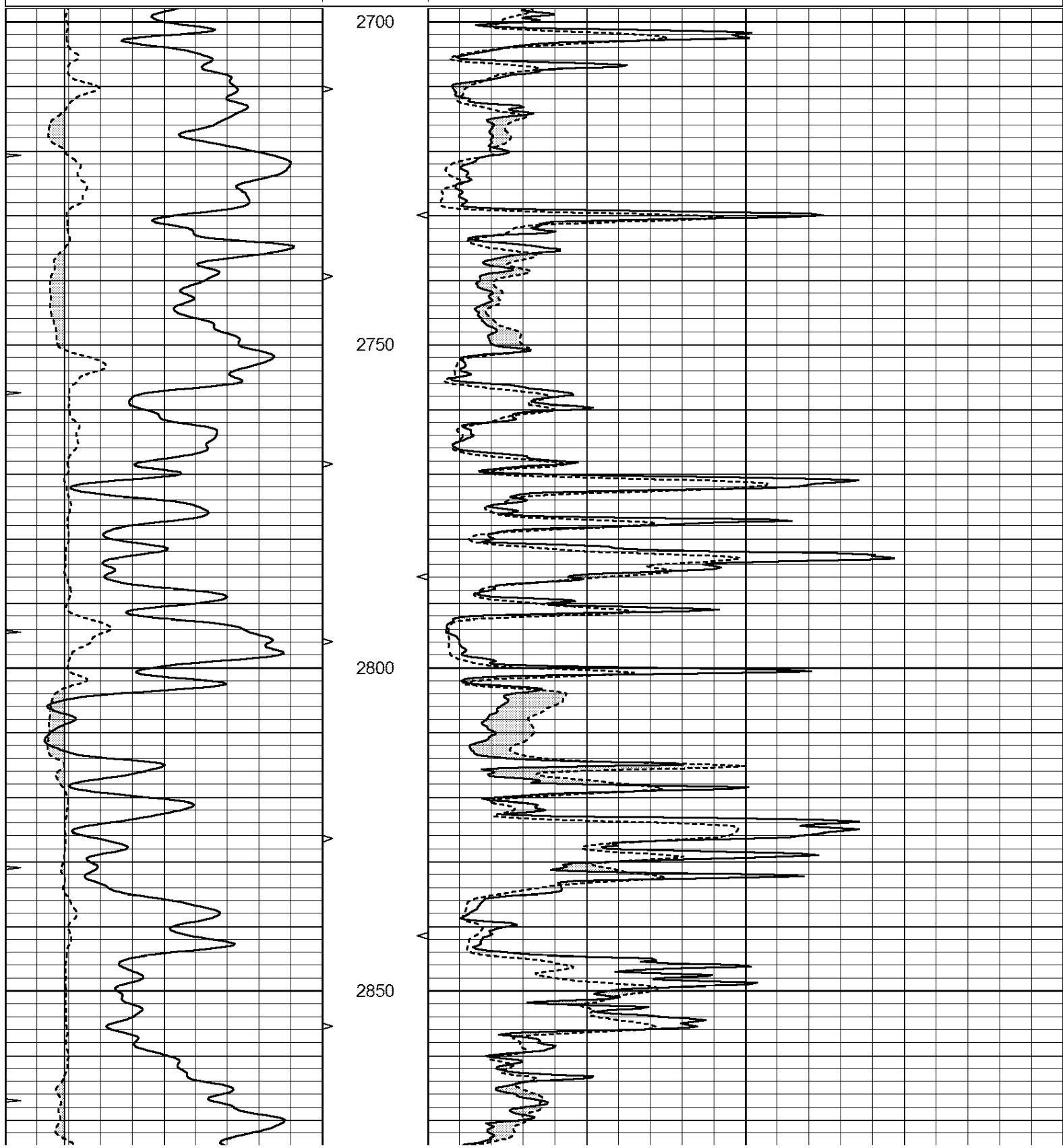


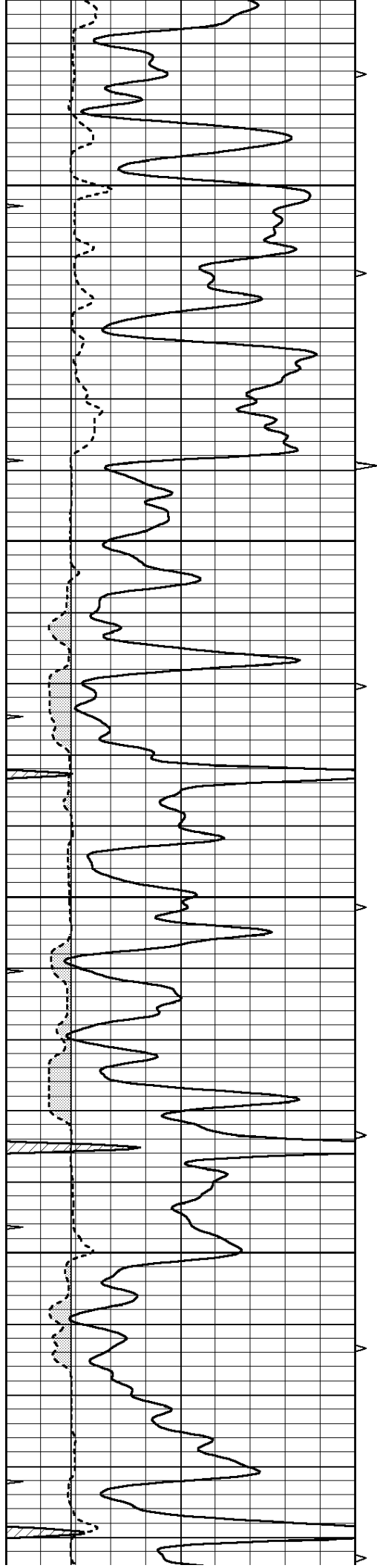
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MAIN SECTION

Database File: 408621pe.db
 Dataset Pathname: pass6.4
 Presentation Format: micro
 Dataset Creation: Sat Apr 07 15:49:21 2012
 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			



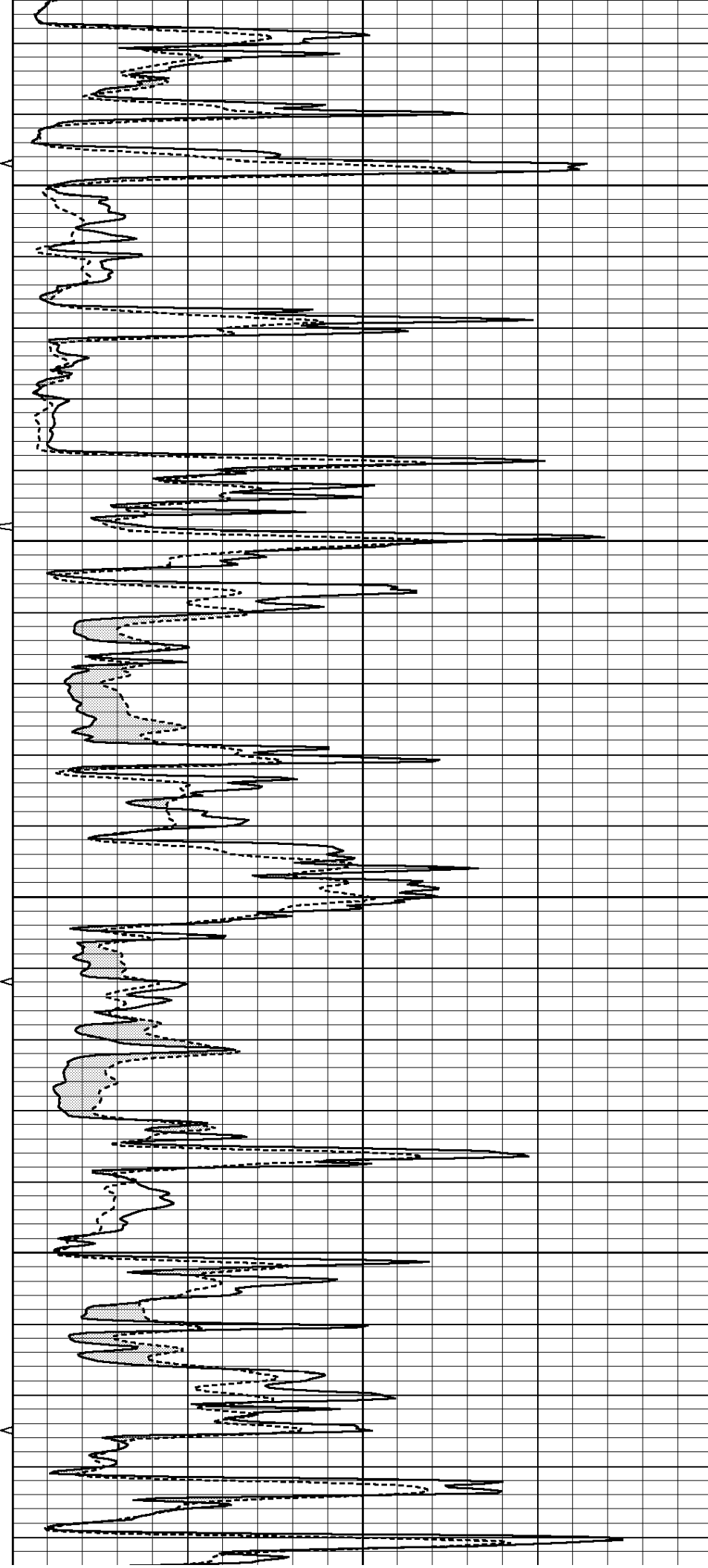


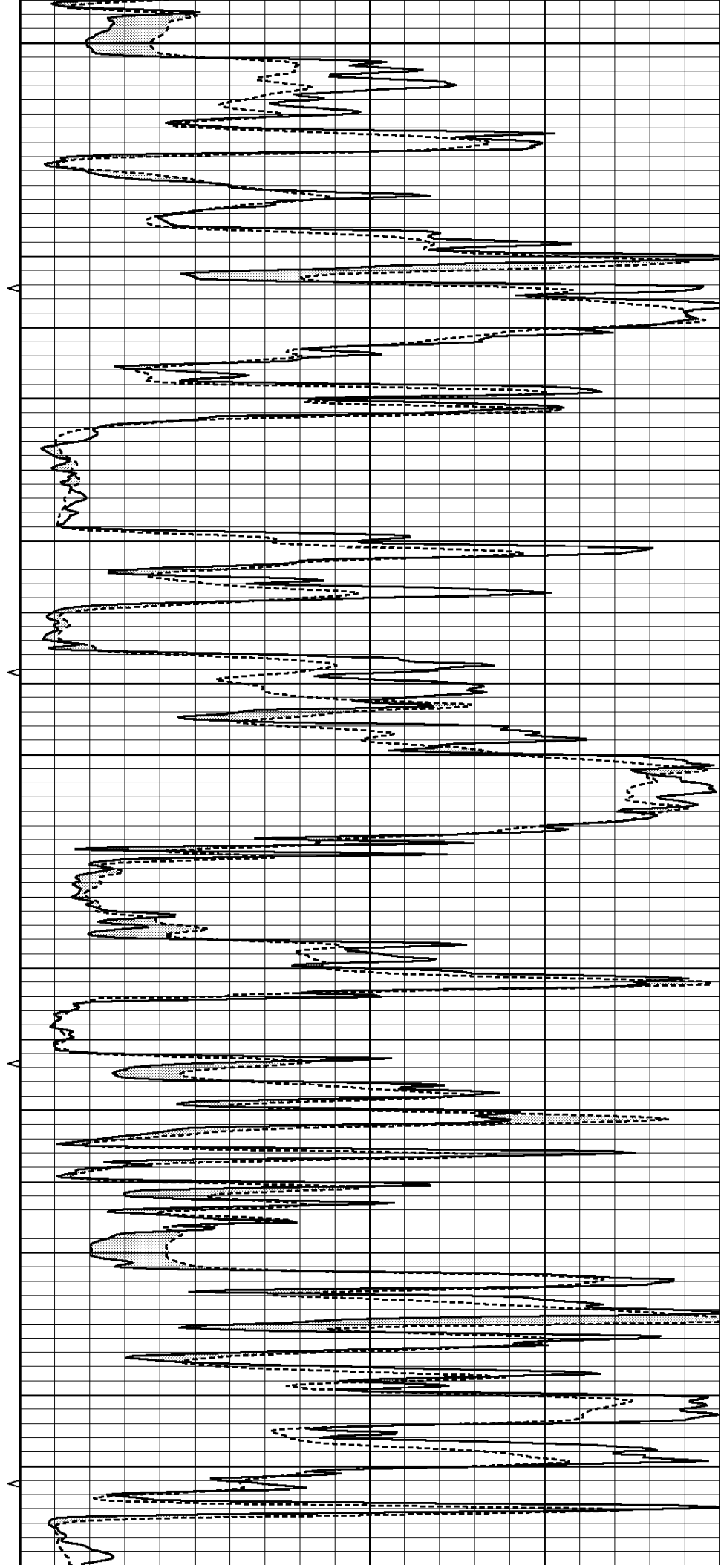
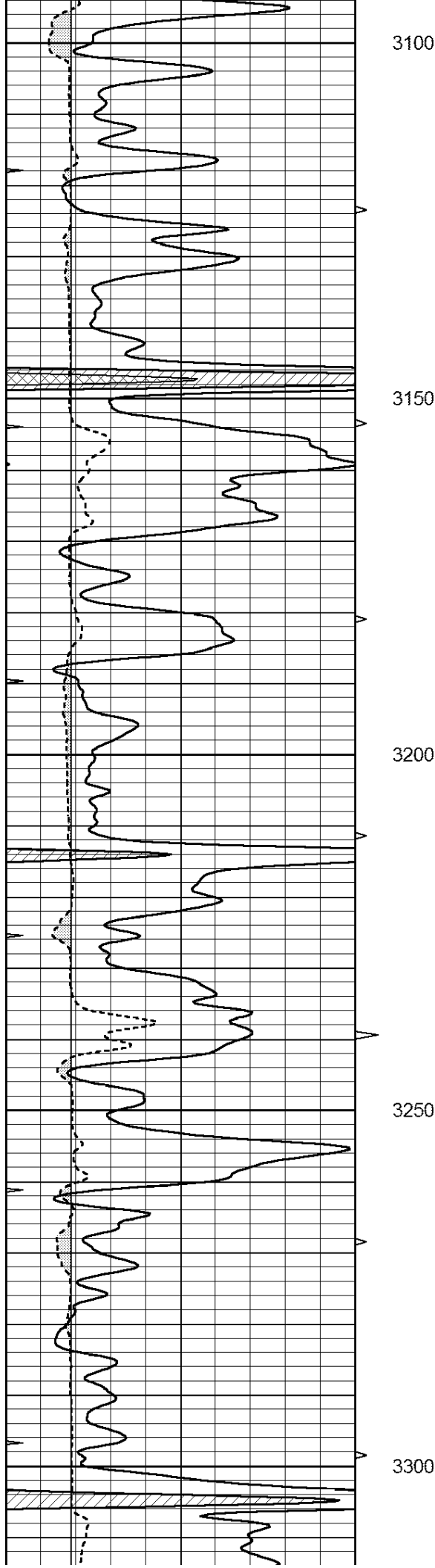
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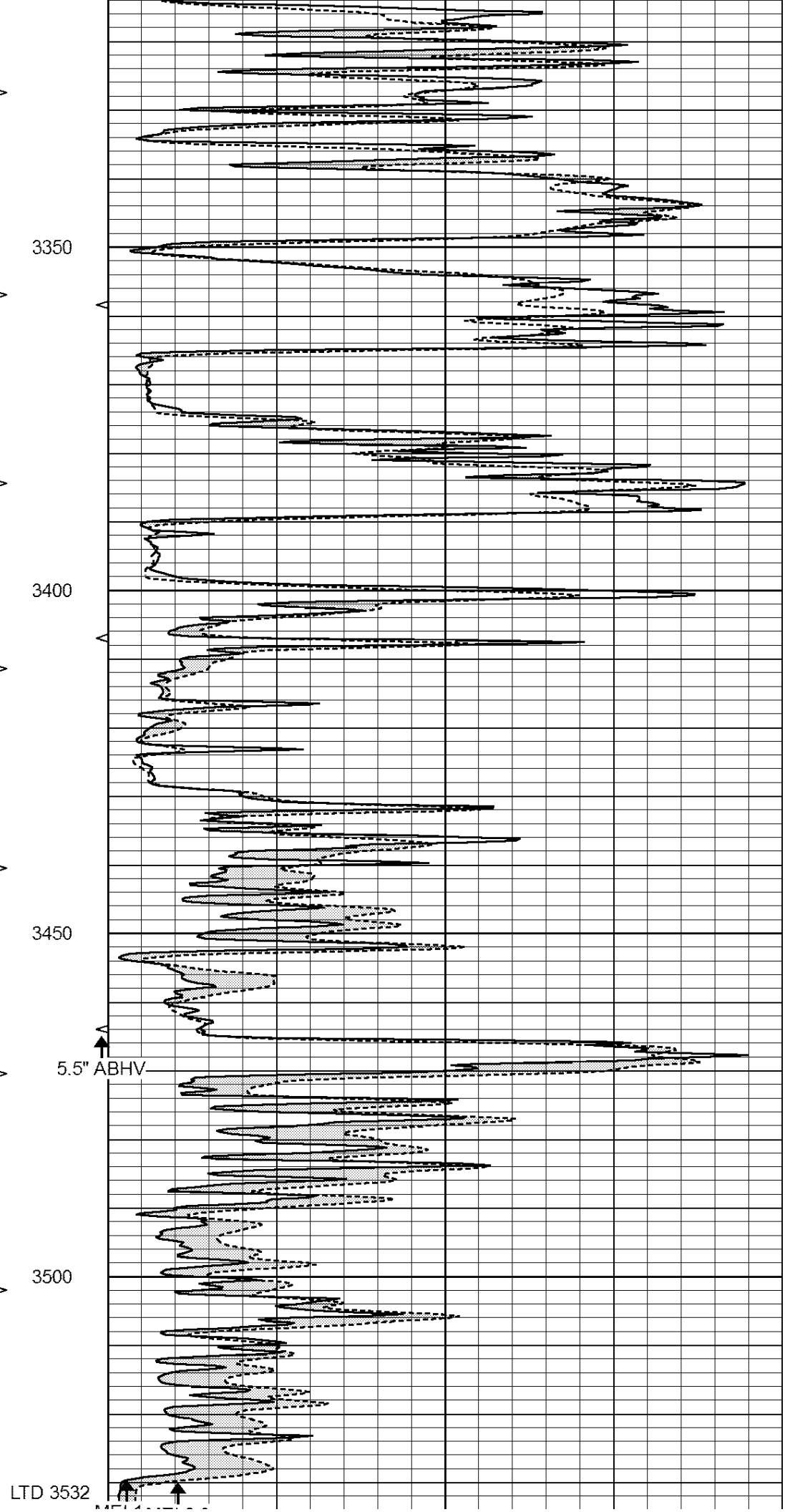
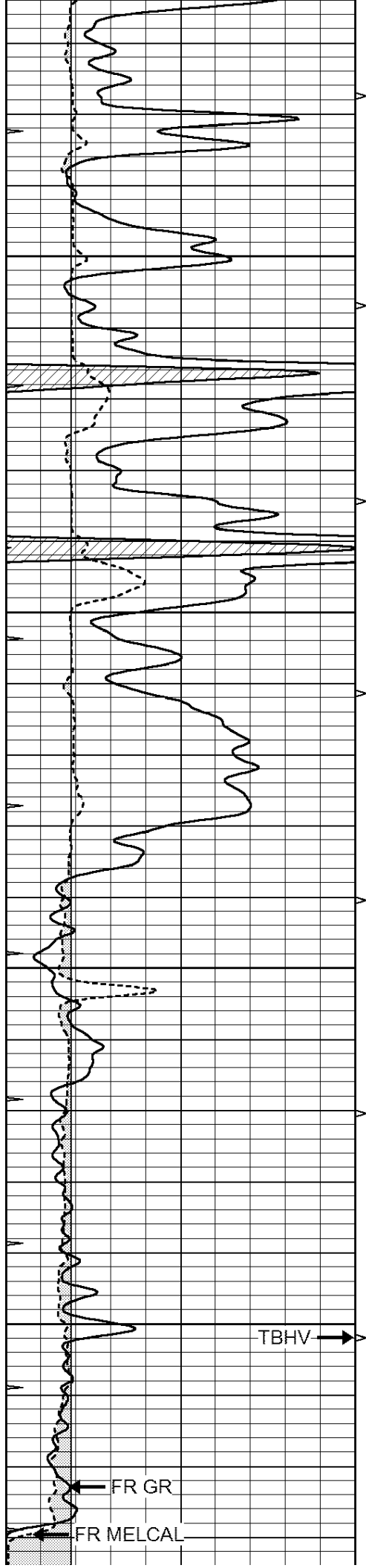
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3000

3050







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		

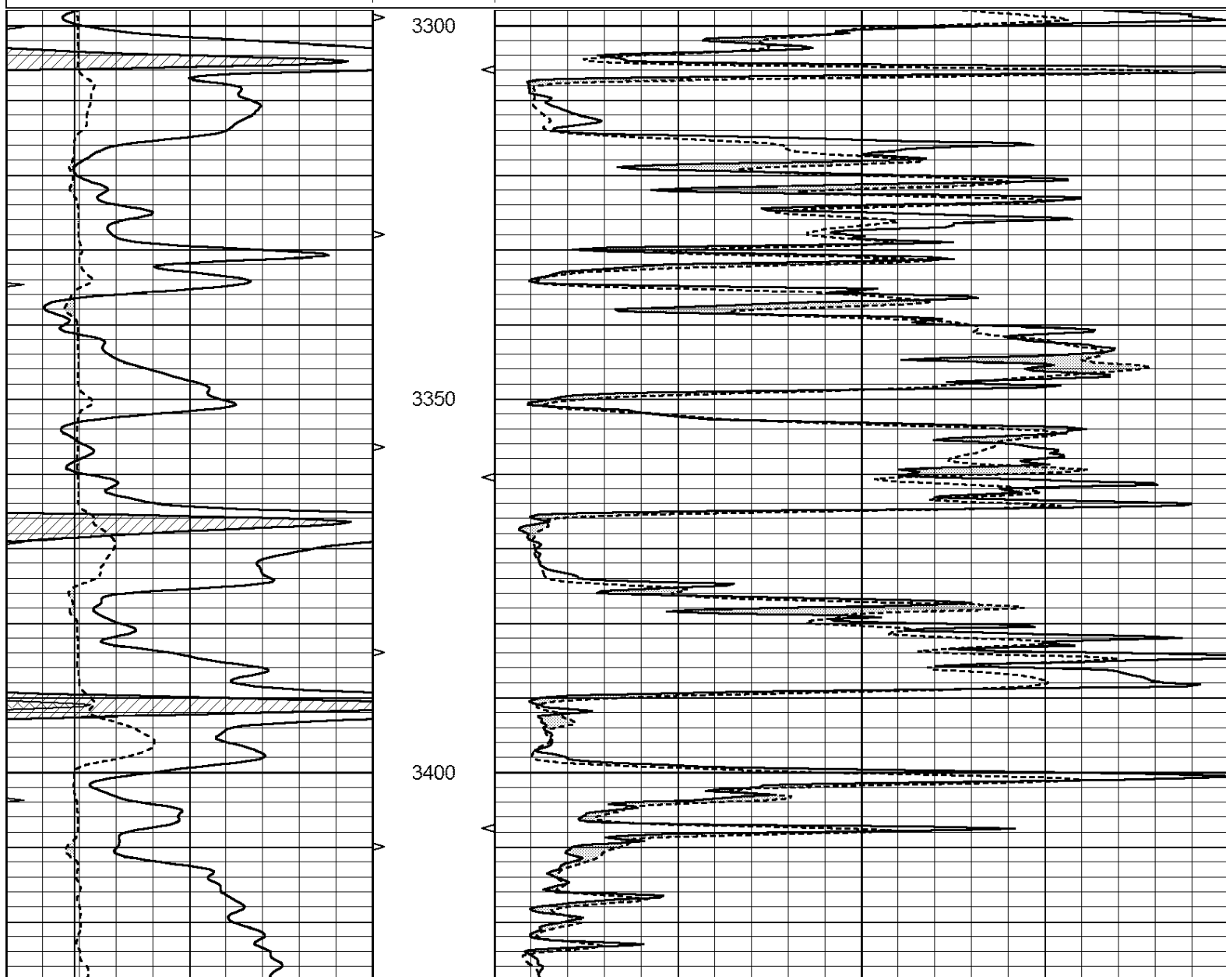


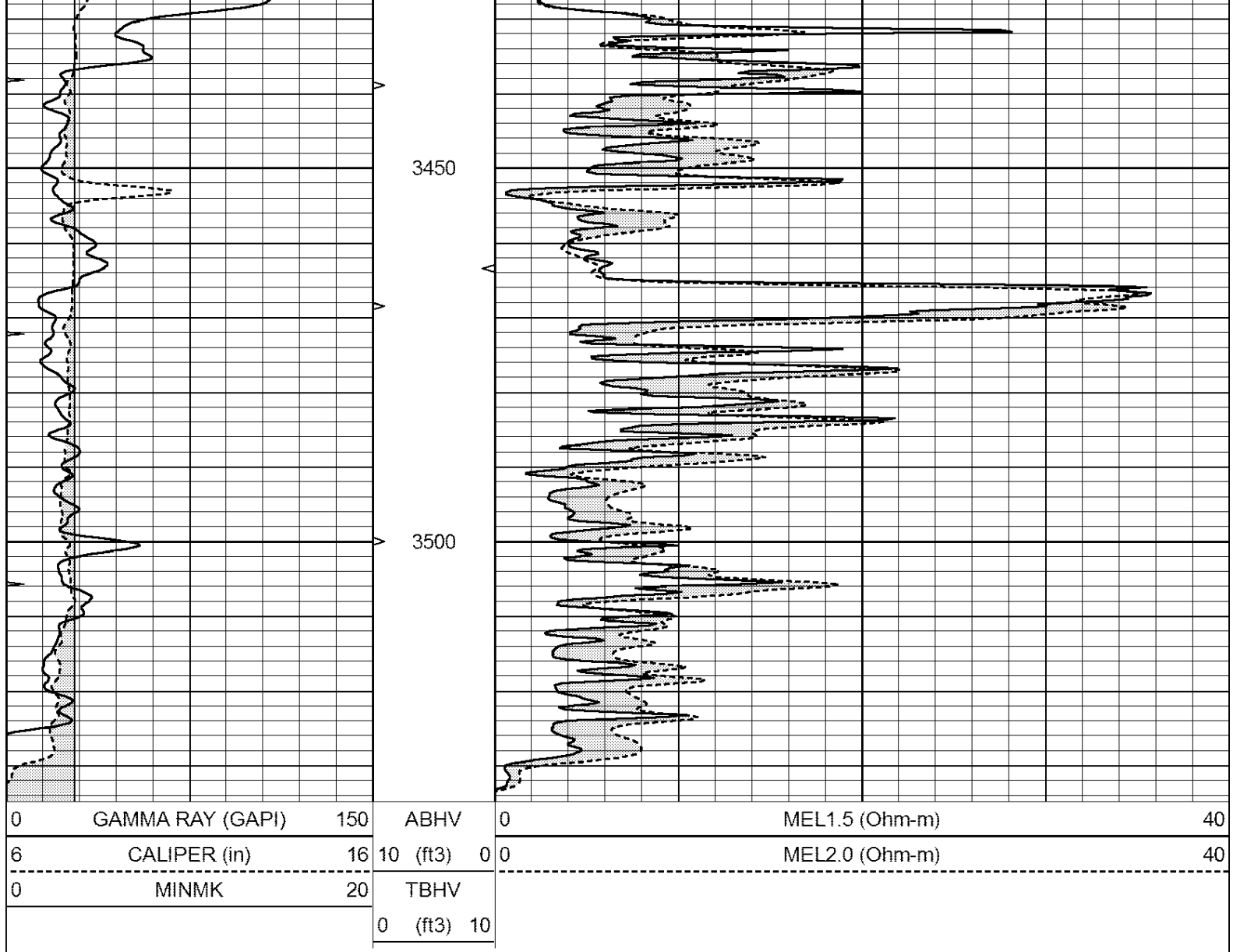
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REPEAT SECTION

Database File: 408621pe.db
Dataset Pathname: pass5.2
Presentation Format: micro
Dataset Creation: Sat Apr 07 15:52:23 2012 by Calc Open-Cased 110302
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:	408621pe.db		
Dataset Pathname:	pass6.4		
Dataset Creation:	Sat Apr 07 15:49:21 2012		
MICRO Calibration Report			
Serial Number:	2		
Tool Model:	PROBE		
Performed:	Wed Mar 14 20:31:07 2012		
Caliper Calibration:	Gain=4.223	Offset=3.027	
	Low Cal	High Cal	
References	7.800	15.000	
Readings	1.130	2.835	
1.5" Calibration:	Gain=27.000	Offset=-0.500	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.065	1.210	
2" Calibration:	Gain=60.000	Offset=-1.000	
	Low Cal	High Cal	
References	0.000	20.000	

Readings	0.012	1.043
Gamma Ray Calibration Report		
Serial Number:	GR4	
Tool Model:	OPEN	
Performed:	Sat Apr 07 15:00:04 2012	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	1.4000	GAPI/cps