



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company		CASTELLI EXPLORATION, INC.	
Well		HEILAND #2-18	
Field		MARCOTTE	
County		ROOKS	
State		KANSAS	
Company		CASTELLI EXPLORATION, INC.	
Well		HEILAND #2-18	
Field		MARCOTTE	
County		ROOKS	
State		KANSAS	
Location:		API # : 15-163-24138-0000	
SEC 18 TWP 10S RGE 19W		330' FSL & 2310' FEL	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 5' A.G.L.	
Drilling Measured From		KELLY BUSHING	
Elevation		2220	
Other Services		CDL/CNL/PE	
DIL		DIL	
Date		8/27/13	
Run Number		TWO	
Depth Driller		3900	
Depth Logger		3897	
Bottom Logged Interval		3895	
Top Log Interval		3000	
Casing Driller		8 5/8"@218'	
Casing Logger		218	
Bit Size		7 7/8"	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.1/58	
pH / Fluid Loss		9.0/10.2	
Source of Sample		FLOWLINE	
Rim @ Meas. Temp		.800@80F	
Rmf @ Meas. Temp		.600@80F	
Rmc @ Meas. Temp		.960@80F	
Source of Rmf / Rmc		MEASUREMENT	
Rim @ BHT		.557@115F	
Time Circulation Stopped		4 HOURS	
Time Logger on Bottom		11:45 P.M.	
Maximum Recorded Temperature		115F	
Equipment Number		4854	
Location		HAYS, KANSAS	
Recorded By		JEFF LUEBBERS	
Witnessed By		TOM CASTELLI	
		RICK POPP	

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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
ZURICH, KS., 2W., 4S., 1/2W., N. INTO



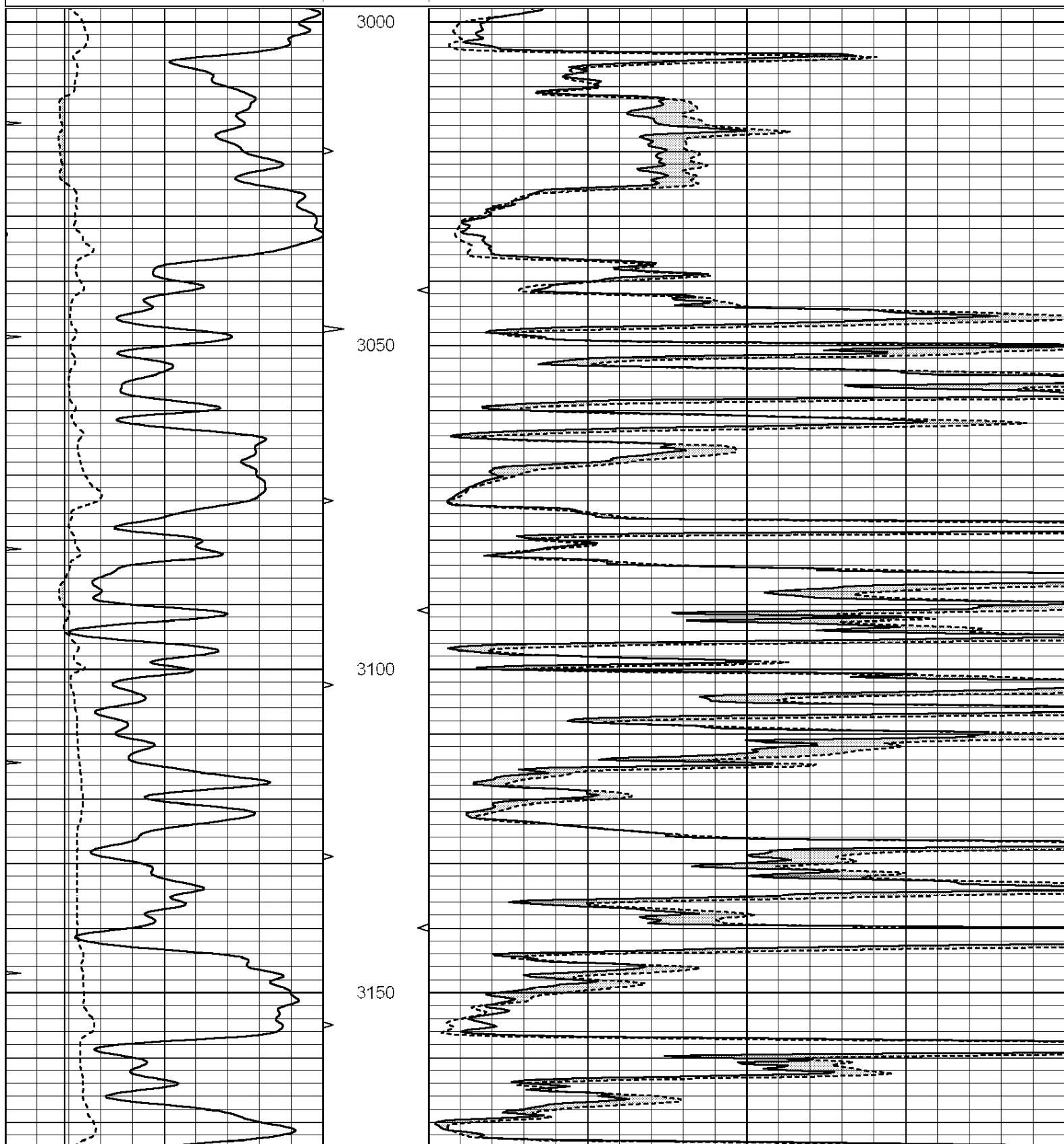
NABORS

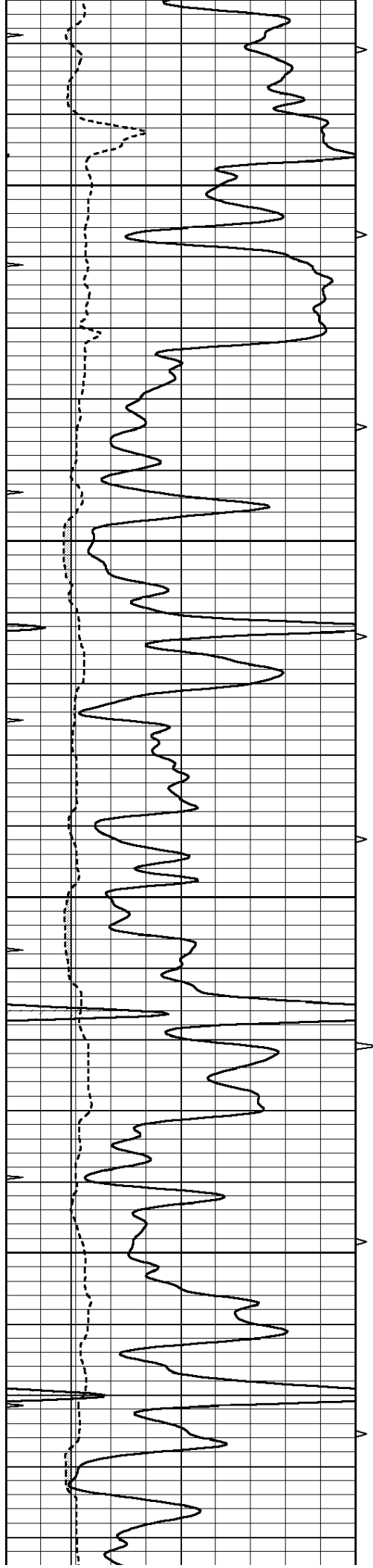
**COMPLETION
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MAIN SECTION

Database File: 011660pe.db
 Dataset Pathname: pass6.4
 Presentation Format: micro
 Dataset Creation: Tue Aug 27 02:26:02 2013
 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		



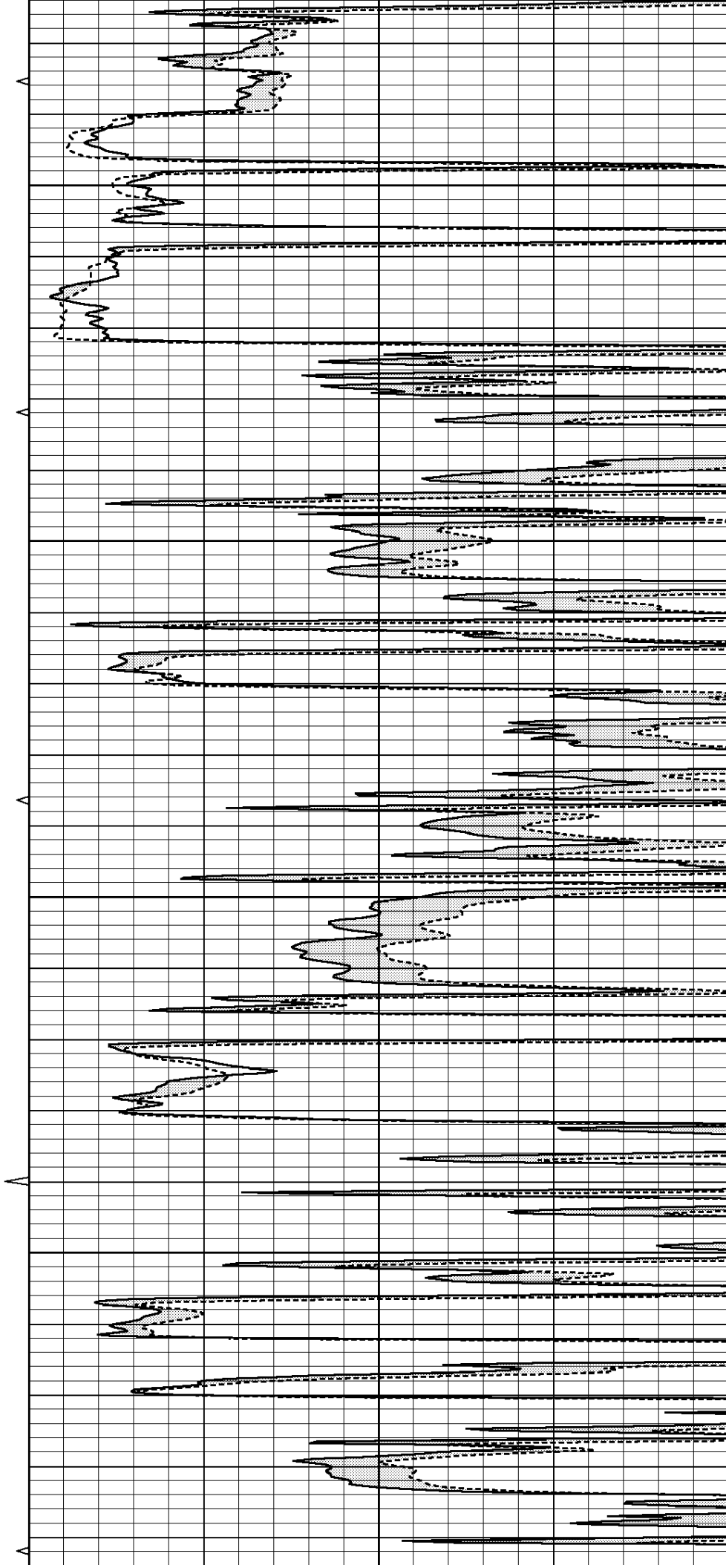


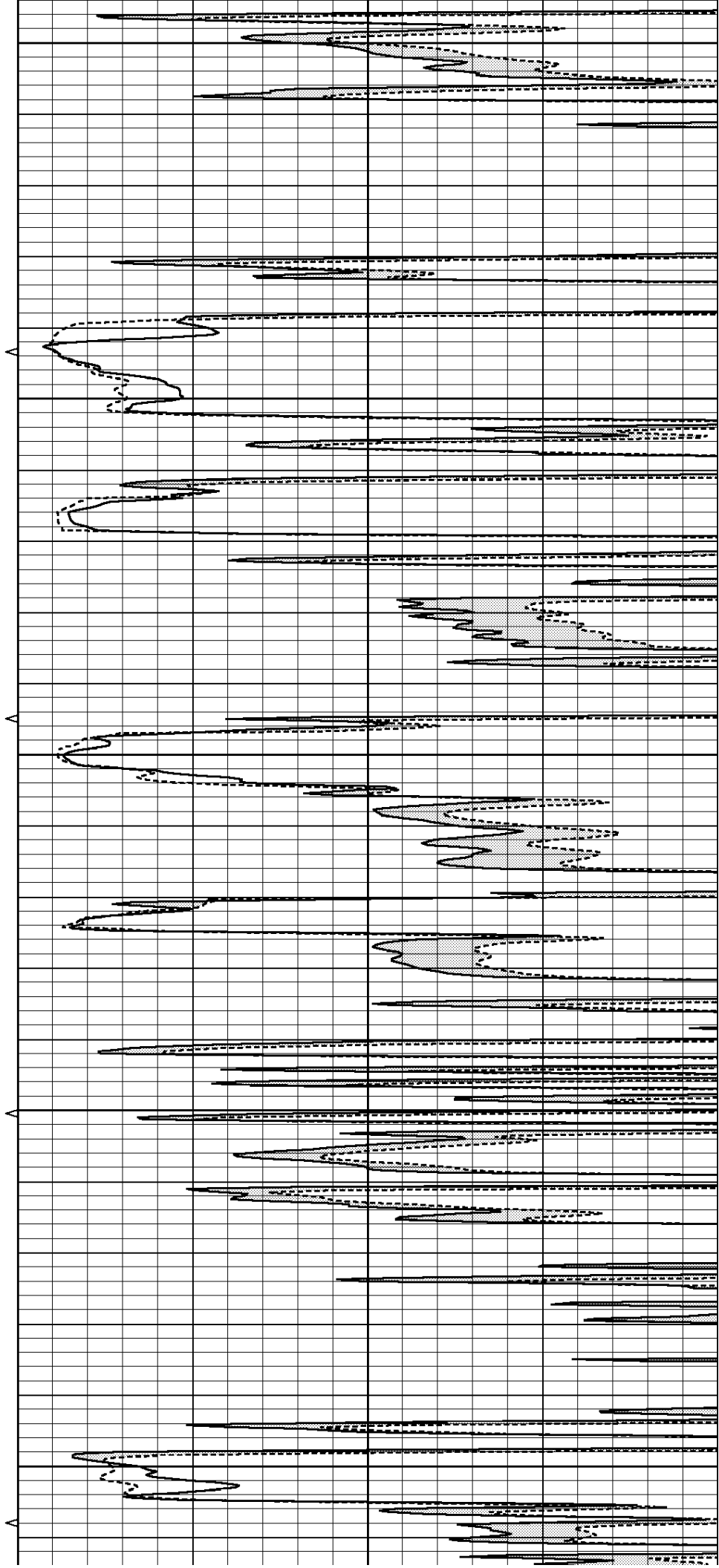
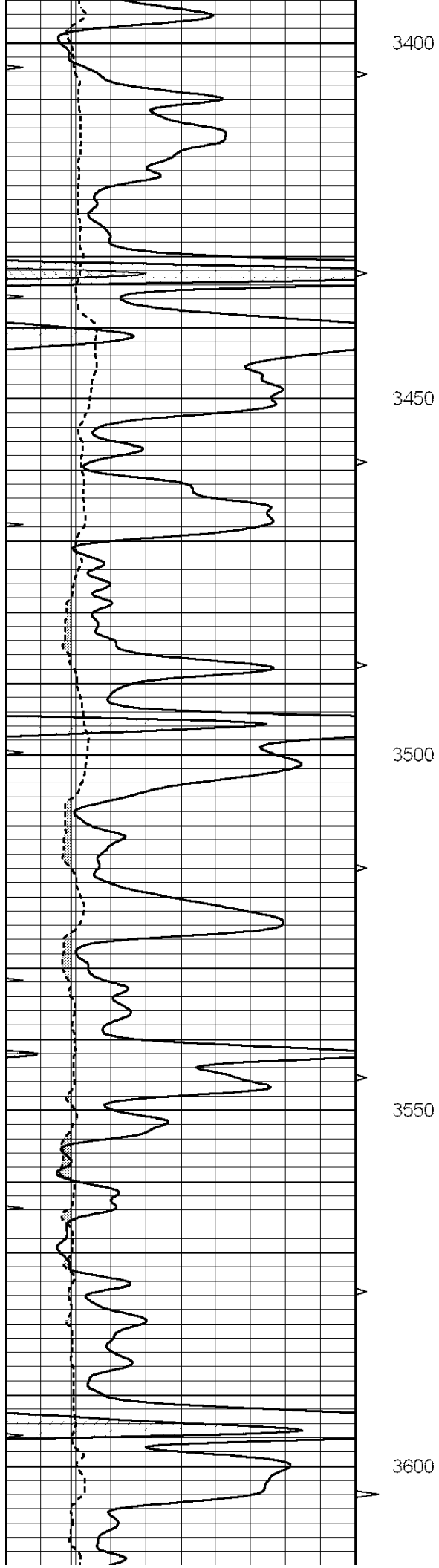
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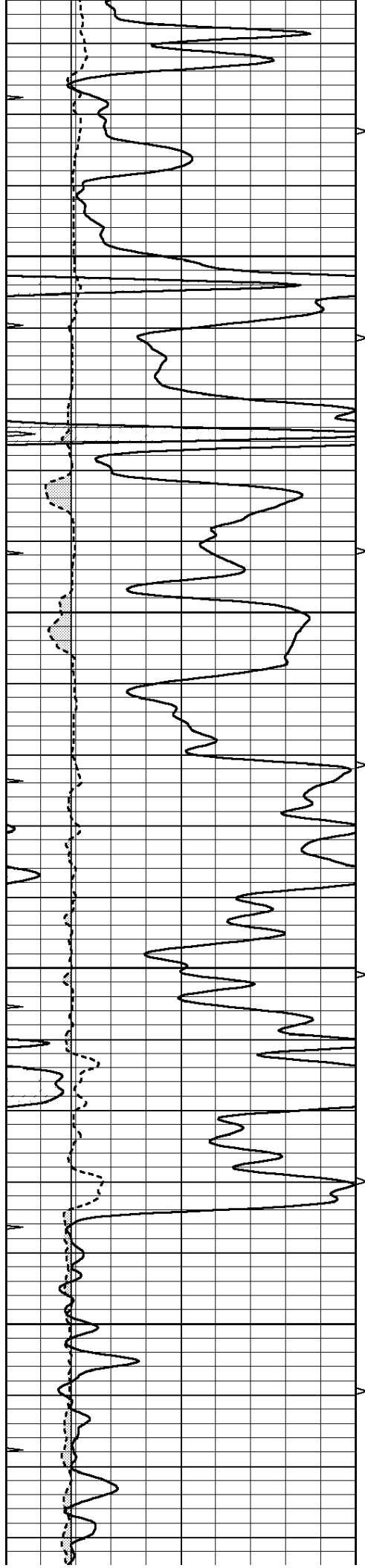
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3350





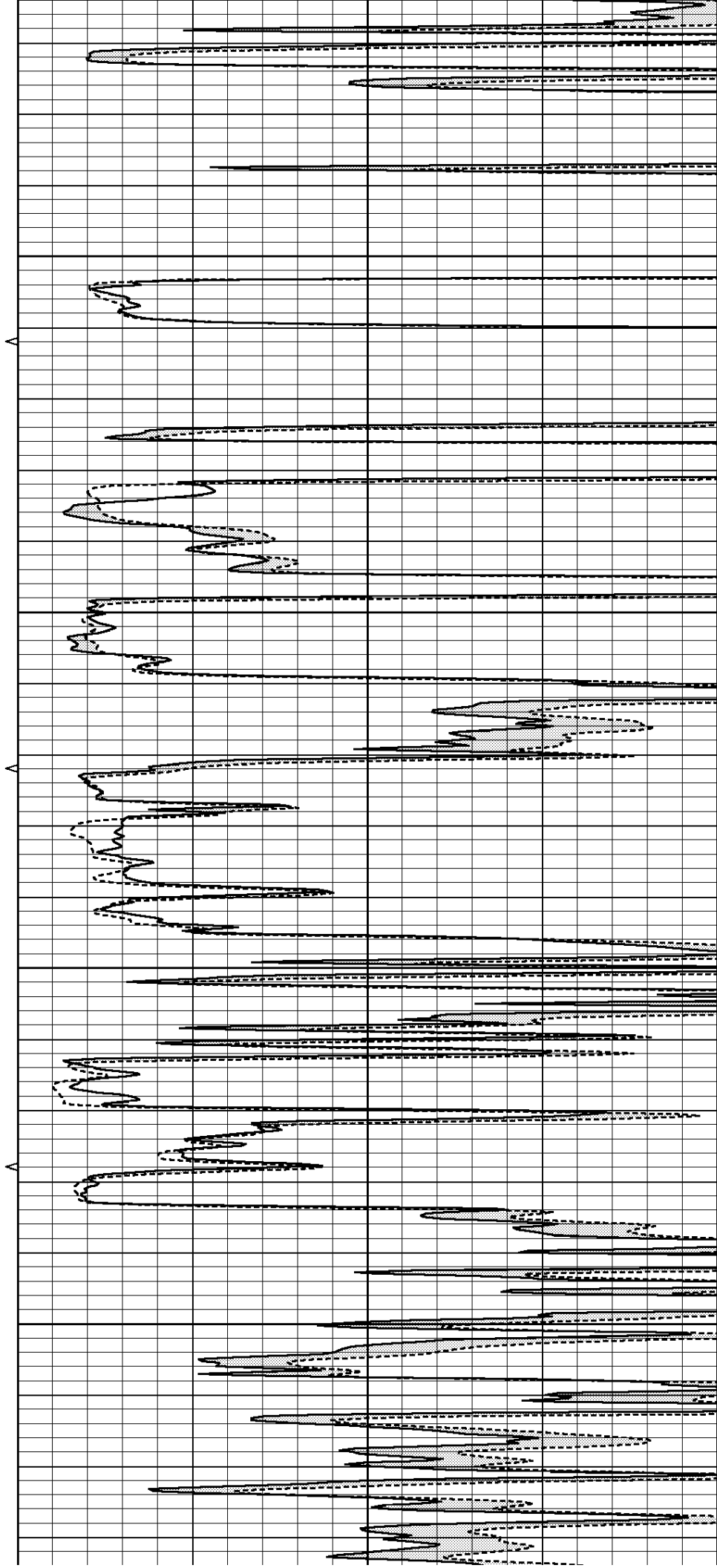


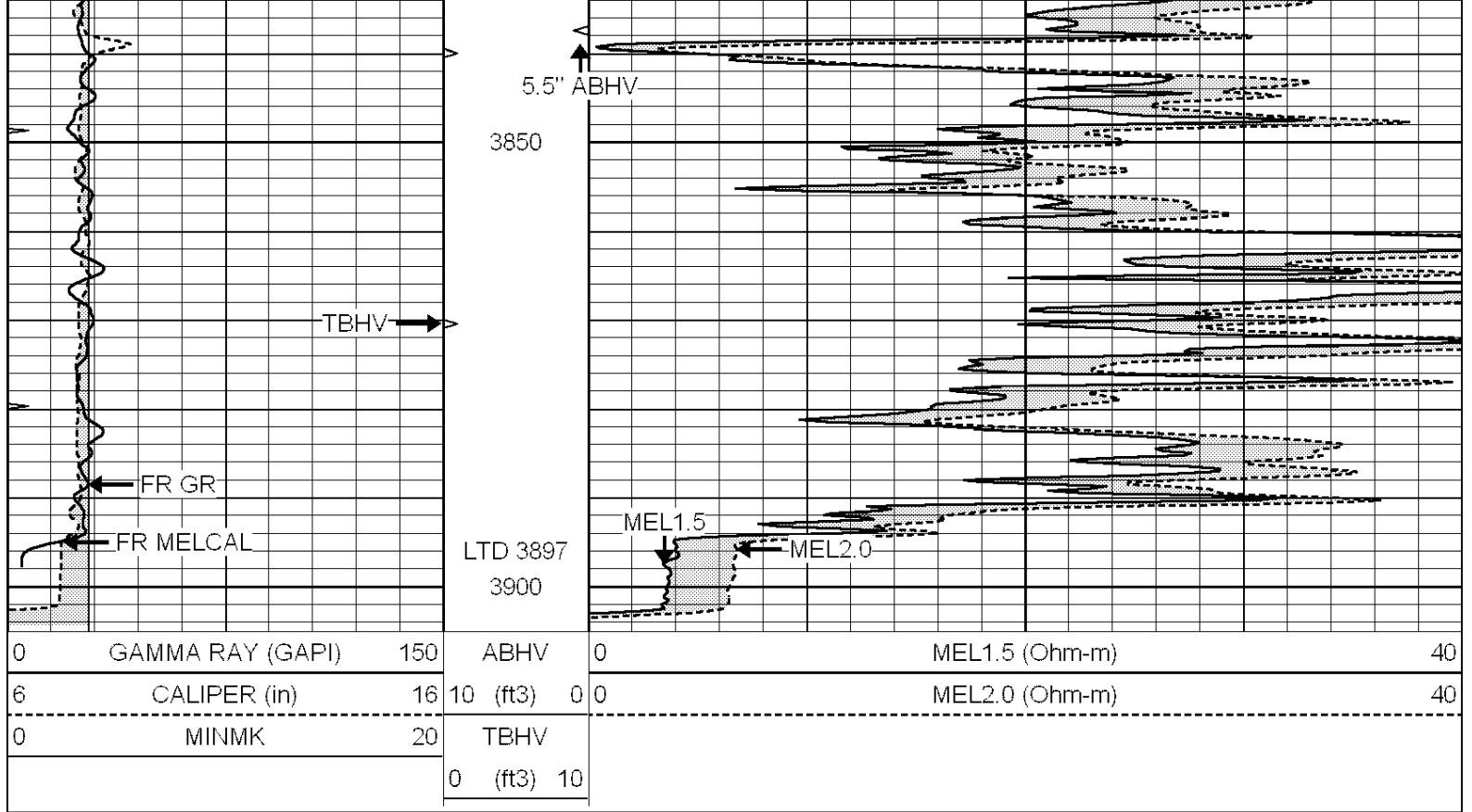
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3800



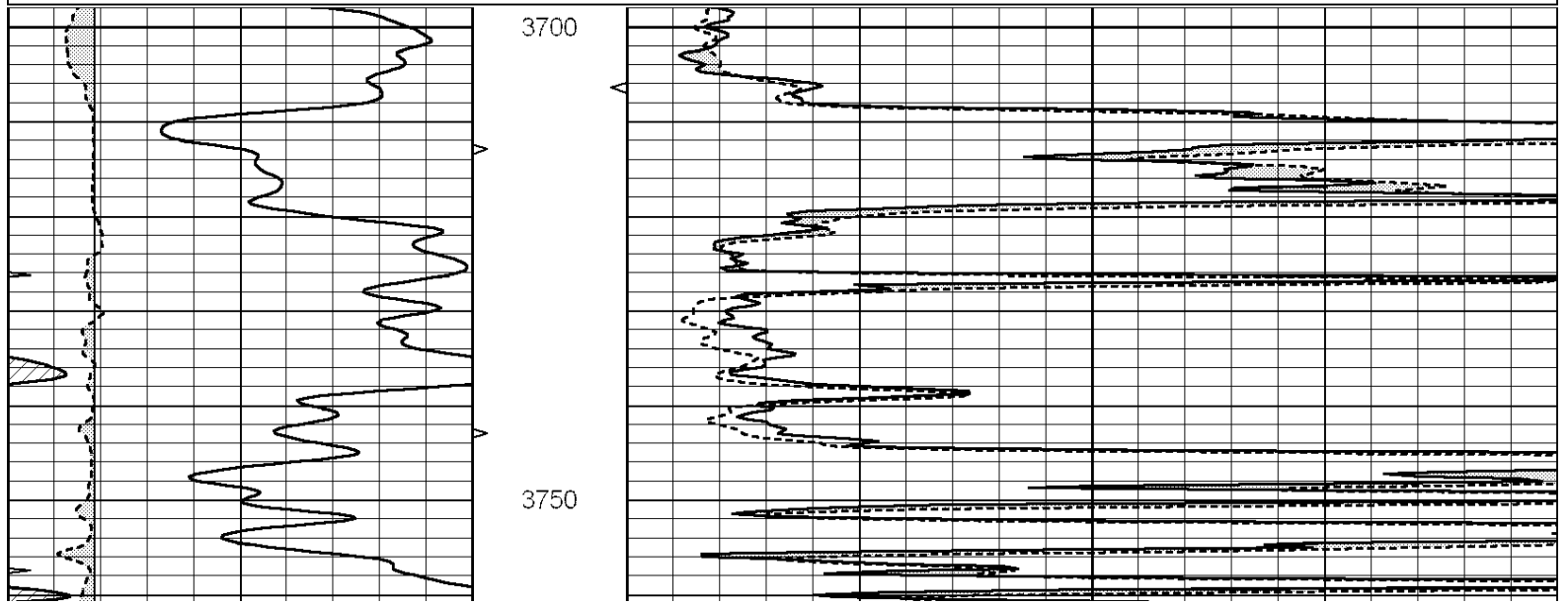


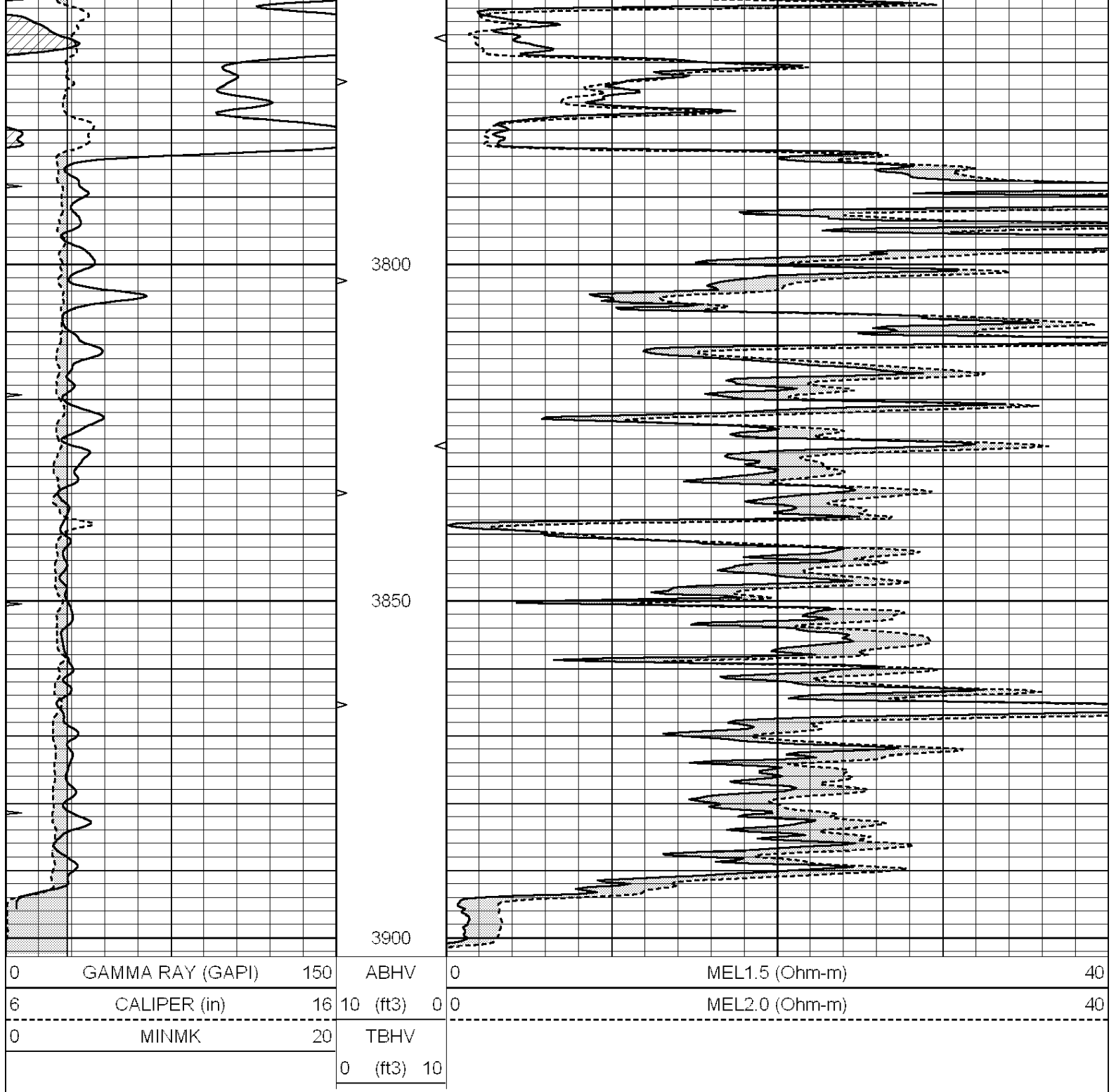

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REPEAT SECTION

Database File: 011660pe.db
 Dataset Pathname: pass5.5
 Presentation Format: micro
 Dataset Creation: Tue Aug 27 02:37:29 2013 by Calc SOC 120430
 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: 011660pe.db
 Dataset Pathname: pass6.4
 Dataset Creation: Tue Aug 27 02:26:02 2013

MICRO Calibration Report

Serial Number: 2
 Tool Model: PROBE
 Performed: Mon Aug 26 12:00:08 2013

Caliper Calibration: Gain=6.371 Offset=-3.531

References	Low Cal	High Cal
Readings	7.500	16.000
	1.731	3.065

1.5" Calibration:	Gain=50.000	Offset=-4.500
References	Low Cal 0.000	High Cal 20.000
Readings	0.015	0.458
2" Calibration:	Gain=90.000	Offset=-3.000
References	Low Cal 0.000	High Cal 20.000
Readings	0.003	0.384
Gamma Ray Calibration Report		
Serial Number:	GR4	
Tool Model:	OPEN	
Performed:	Tue Aug 27 01:32:39 2013	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	1.0000	GAPI/cps