



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company		HERMAN L. LOEB, LLC	
Well		CLARK #6	
Field		MOYER NORTHWEST	
County		SUMNER	
State		KANSAS	
Location:		API # : 15-191-22746-0000 2304' FSL & 2030' FEL SE - NW - NW - SE	
Permanent Datum Log Measured From Drilling Measured From		GROUND LEVEL KELLY BUSHING 9' A.G.L. KELLY BUSHING	
SEC 2 TWP 31S RGE 3W		Other Services CDL/CNL/PE DIL	
Elevation		1297	
K.B. 1306 D.F. 1304 G.L. 1297			
Date	5/18/14		
Run Number	TWO		
Depth Driller	3400		
Depth Logger	3401		
Bottom Logged Interval	3399		
Top Log Interval	1900		
Casing Driller	8 5/8" @ 260'		
Casing Logger	260'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3100 PPM	
Density / Viscosity	9.2/66		
pH / Fluid Loss	10.5/8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.85 @ 82F		
Rmf @ Meas. Temp	.64 @ 82F		
Rmc @ Meas. Temp	1.02 @ 82F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.63 @ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	111F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF GRONEMEG		
Witnessed By	DOUG DAVIS		

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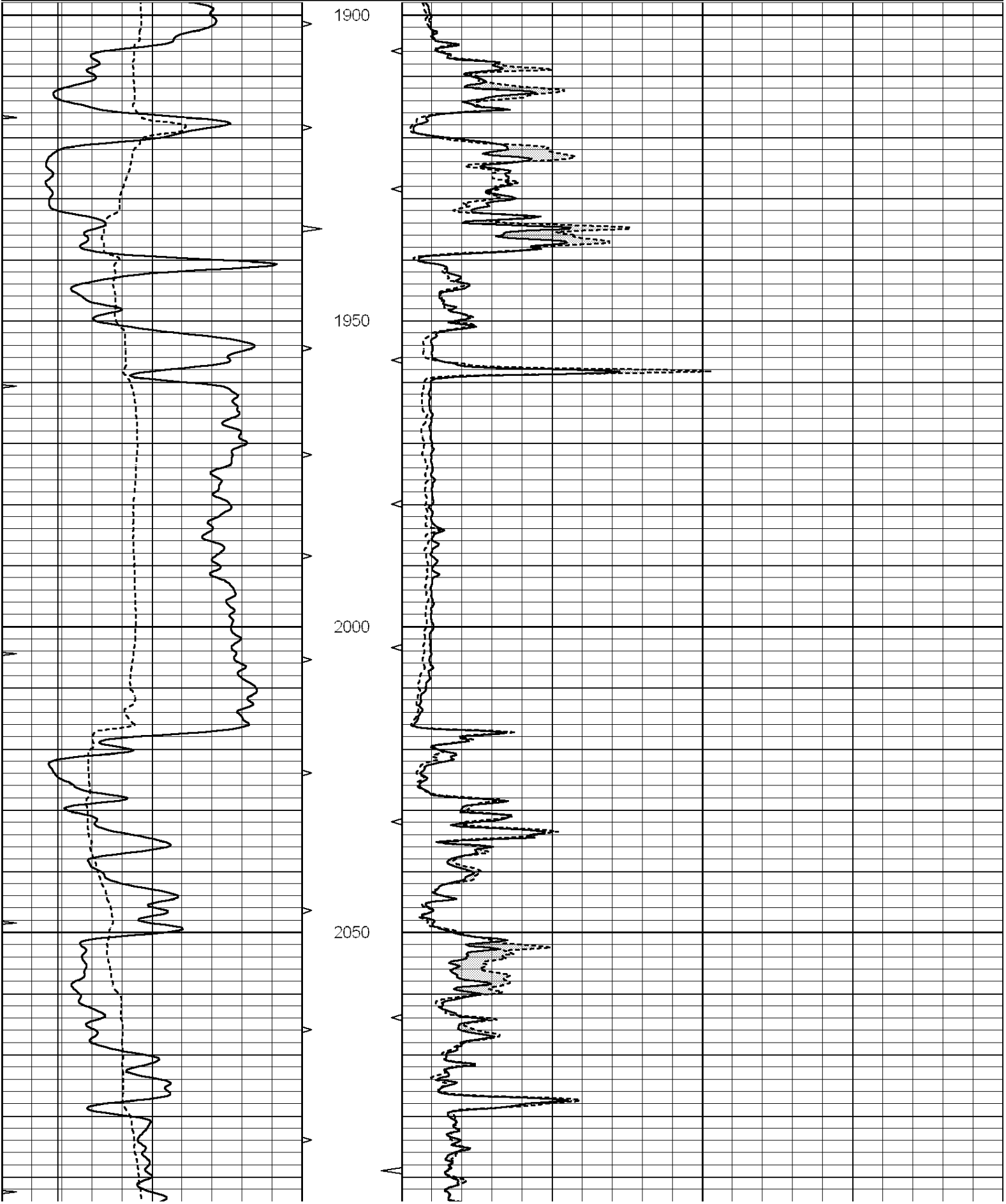
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

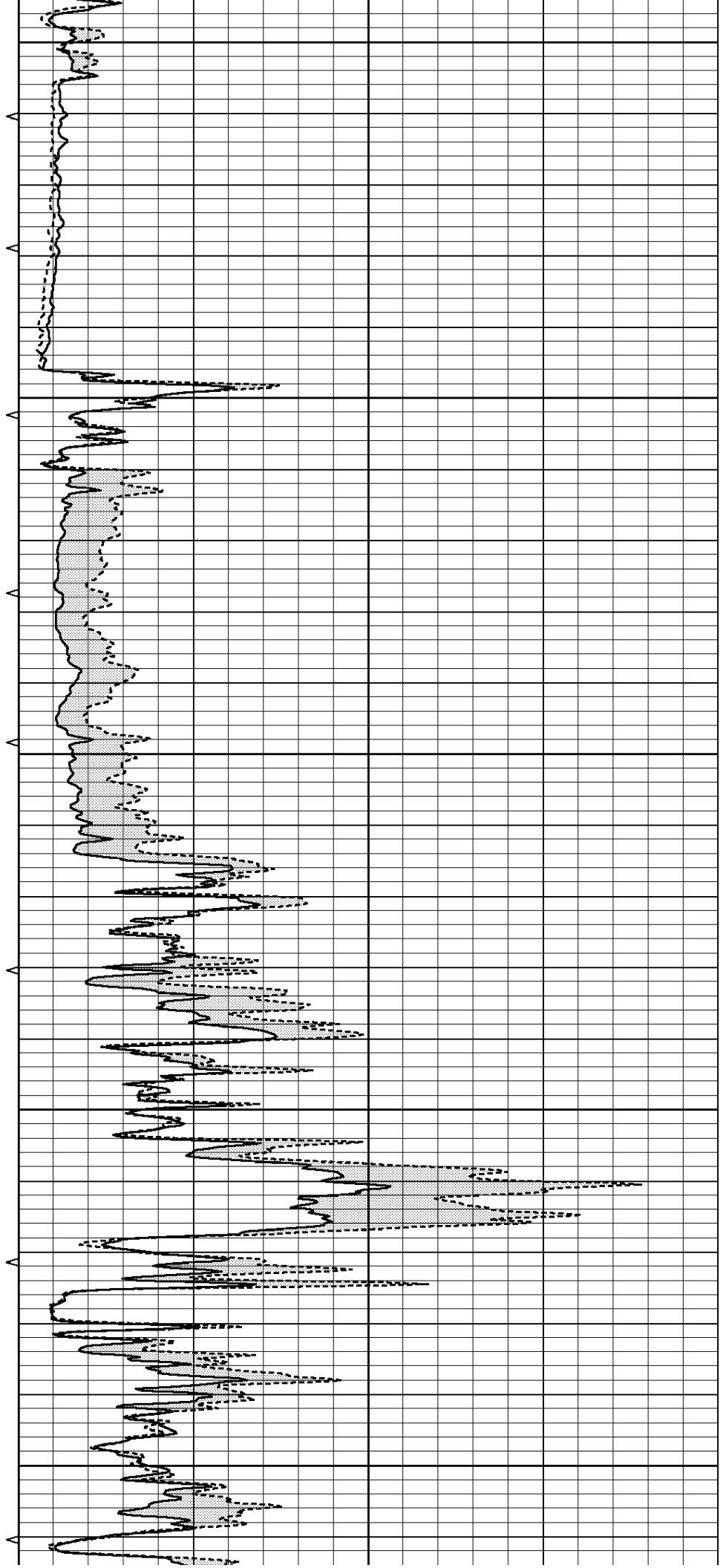
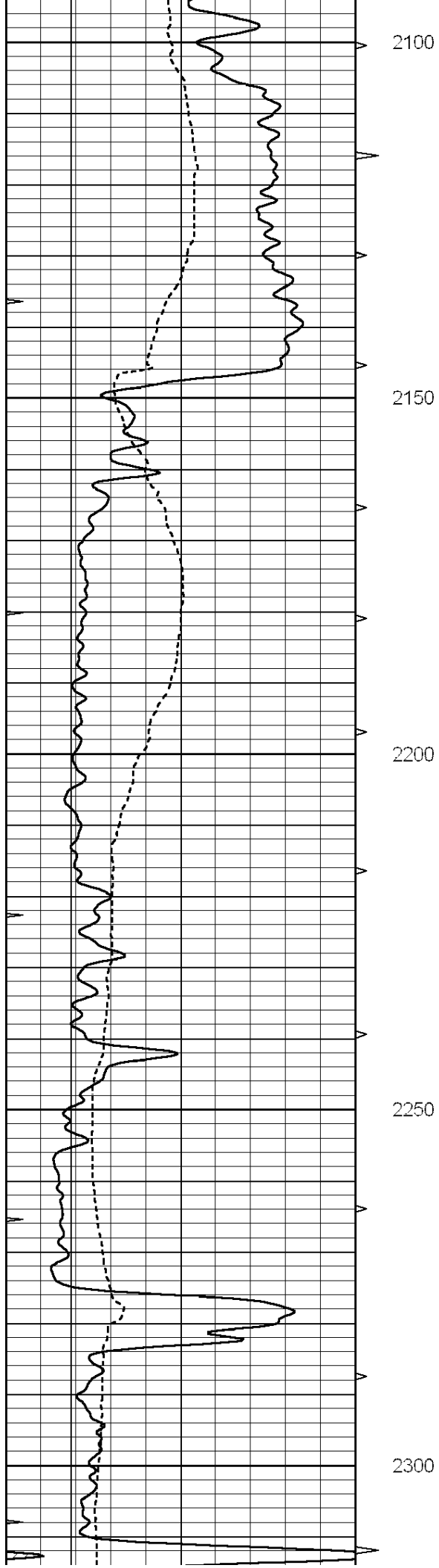
Comments

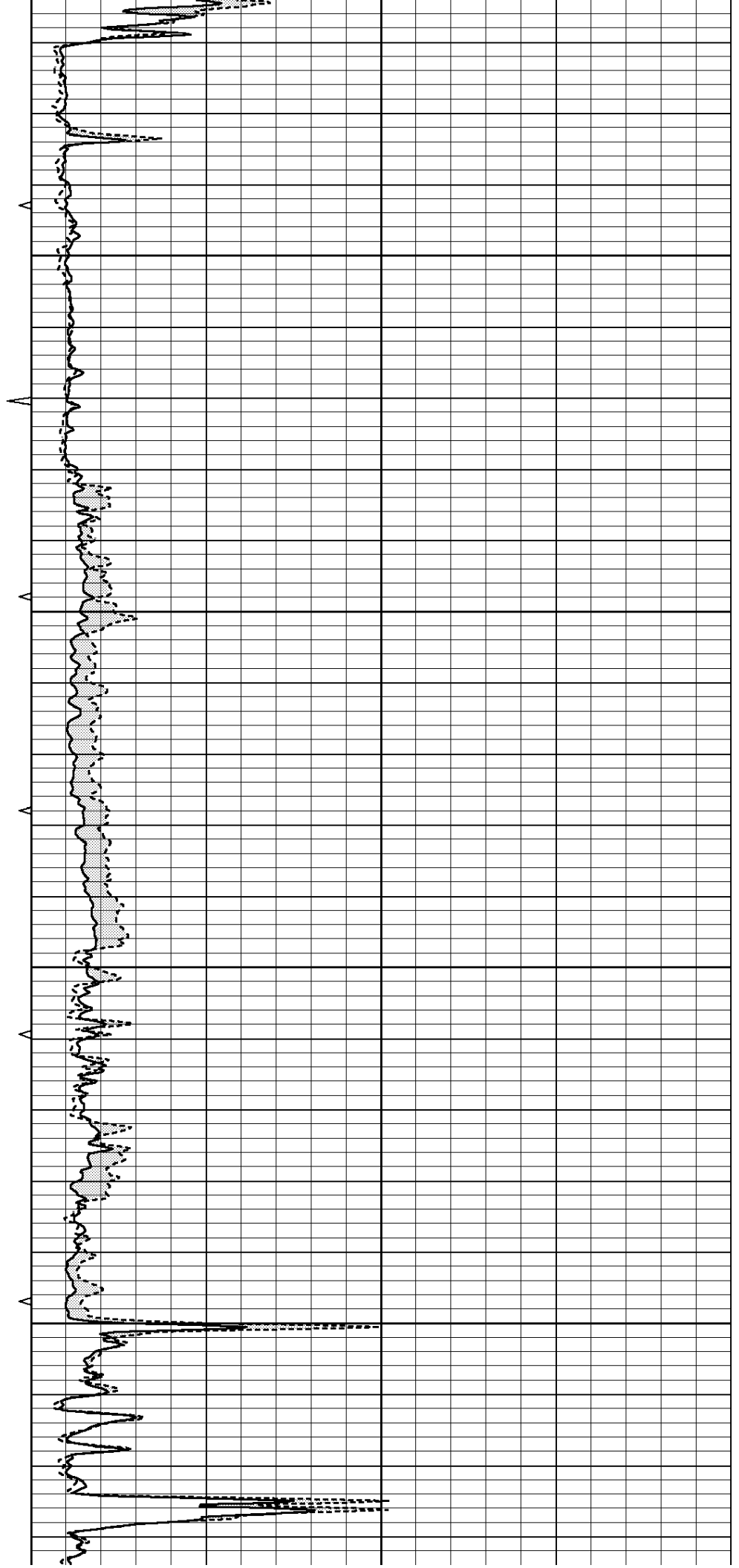
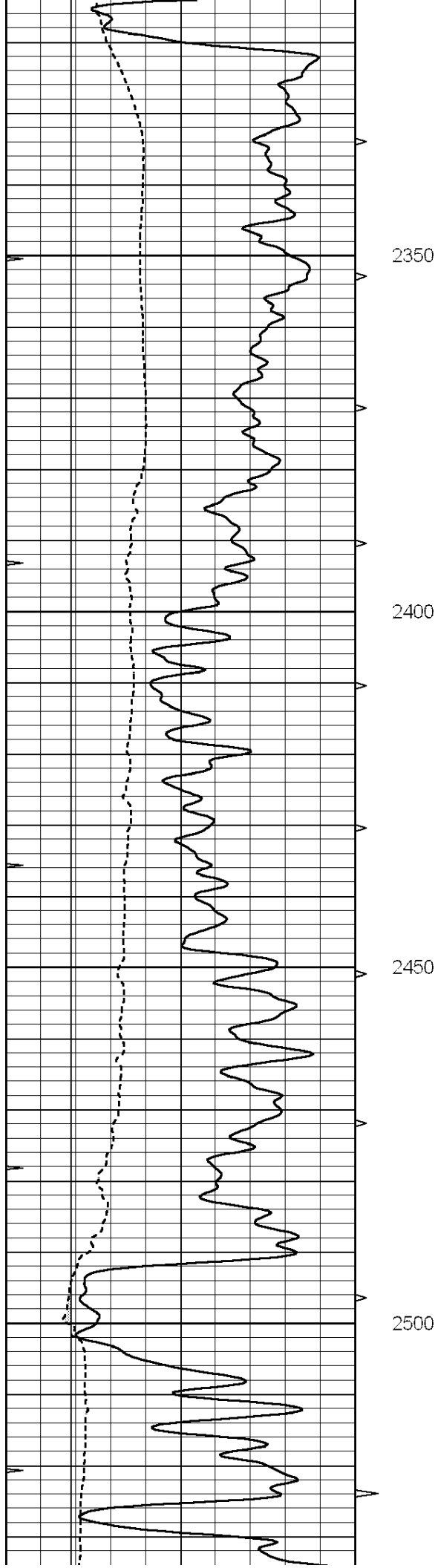
THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395
 DIRECTIONS
 CONWAY SPRINGS, KS - 1 MILE EAST ON PARRALLEL ST - 1 MILE SOUTH TO RD 80
 1/2 MILE EAST - NORTH INTO

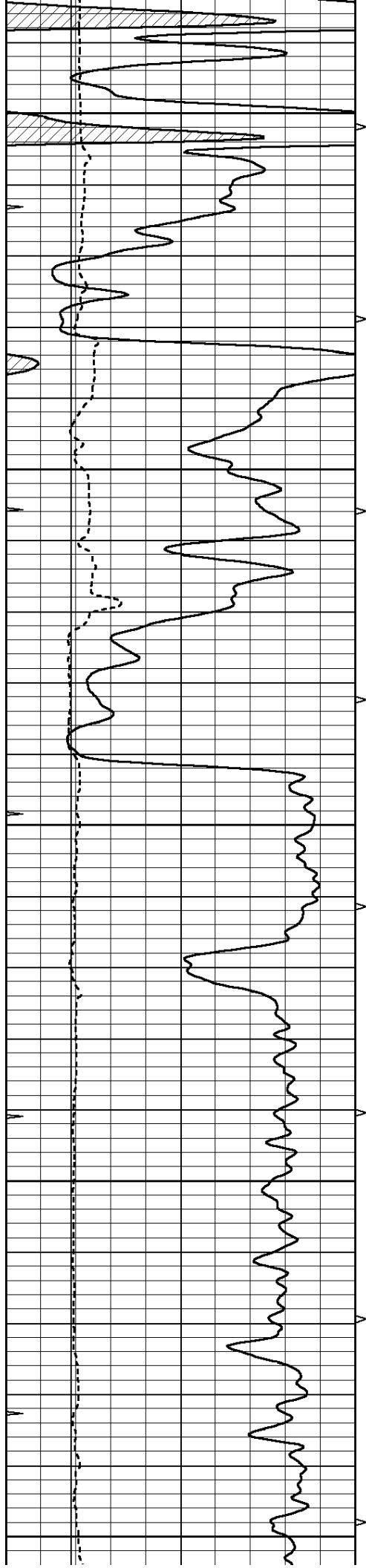
Database File: 24157pe.db
 Dataset Pathname: pass5.1
 Presentation Format: micro
 Dataset Creation: Sun May 18 20:20:13 2014 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

Charted by:		Depth in Feet scaled 1:2.15				
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			









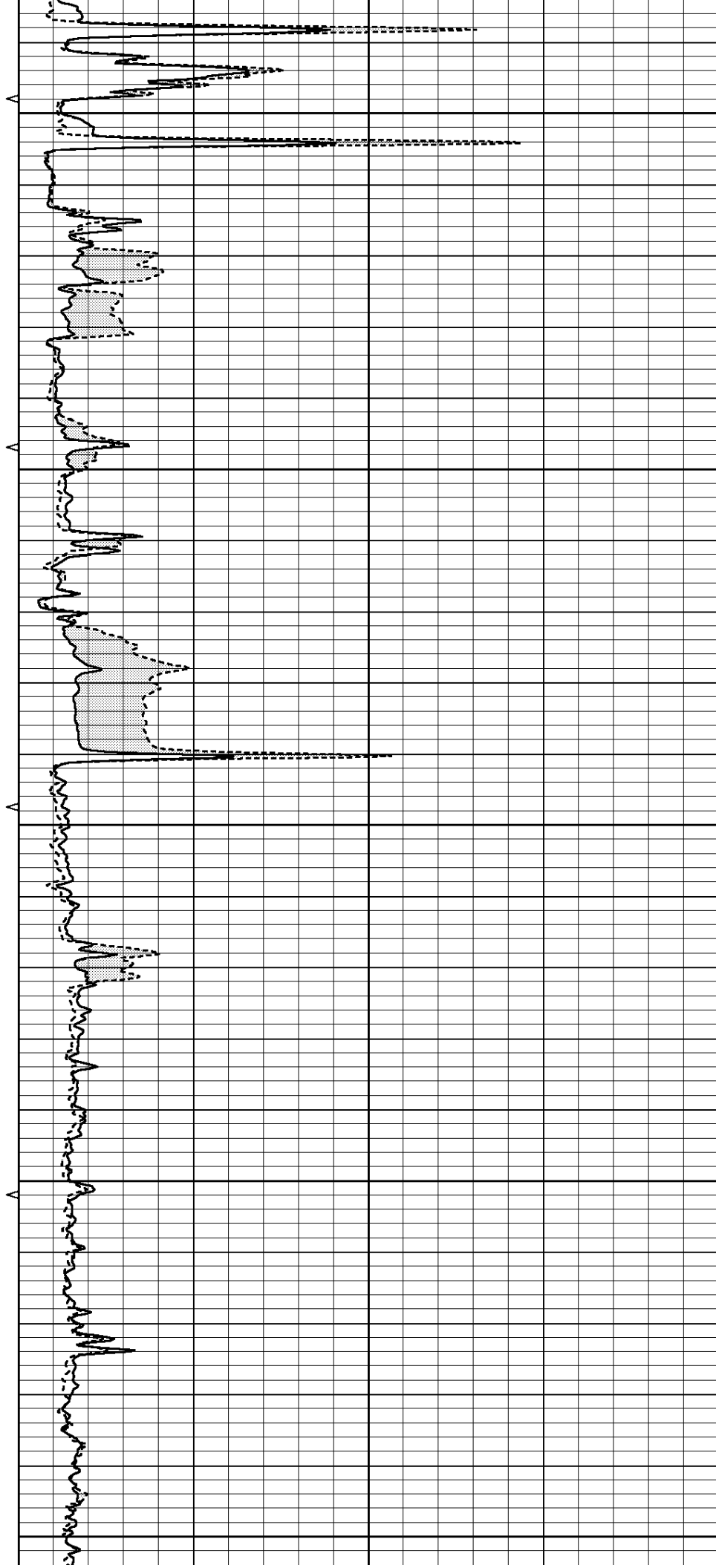
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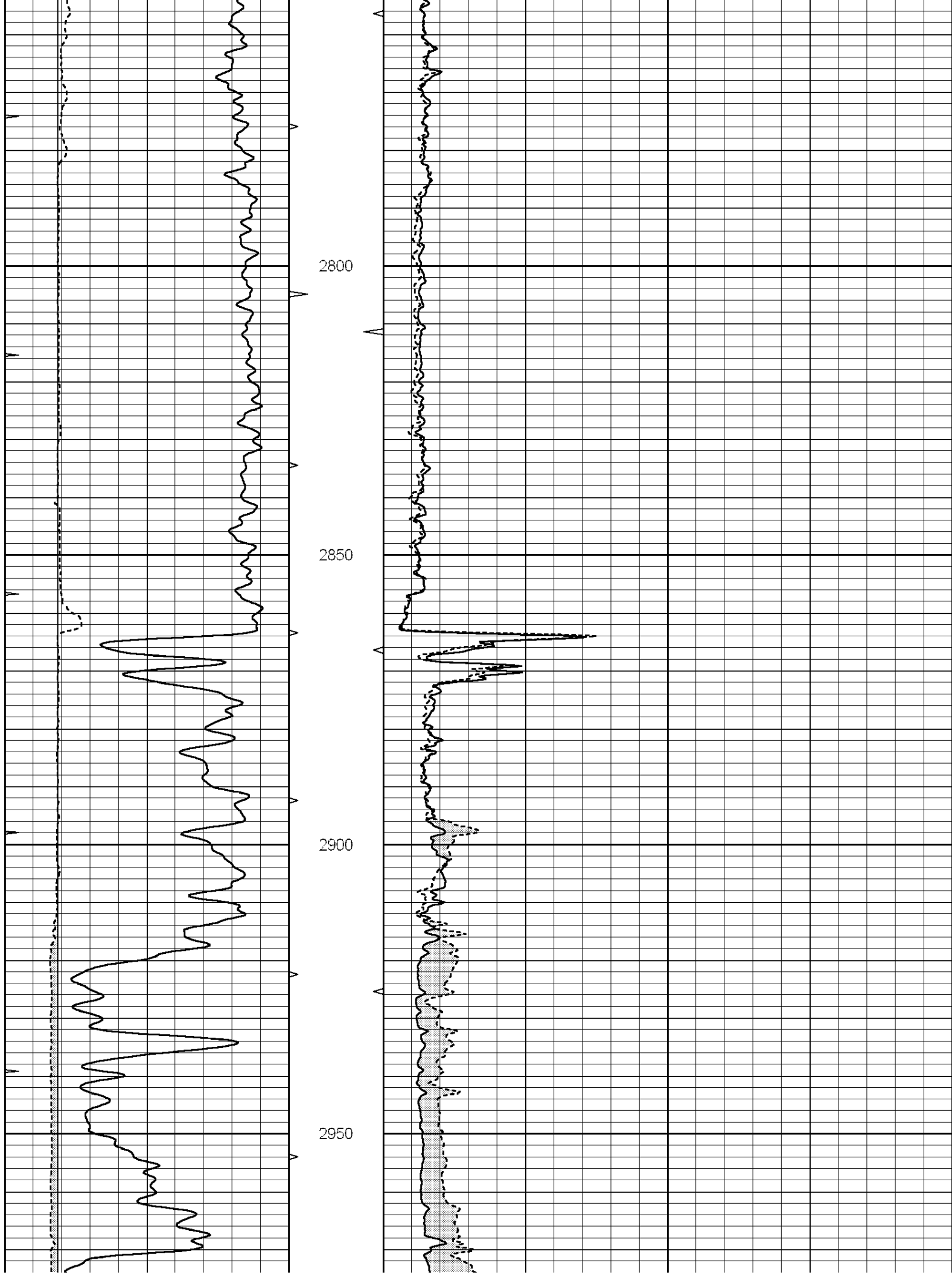
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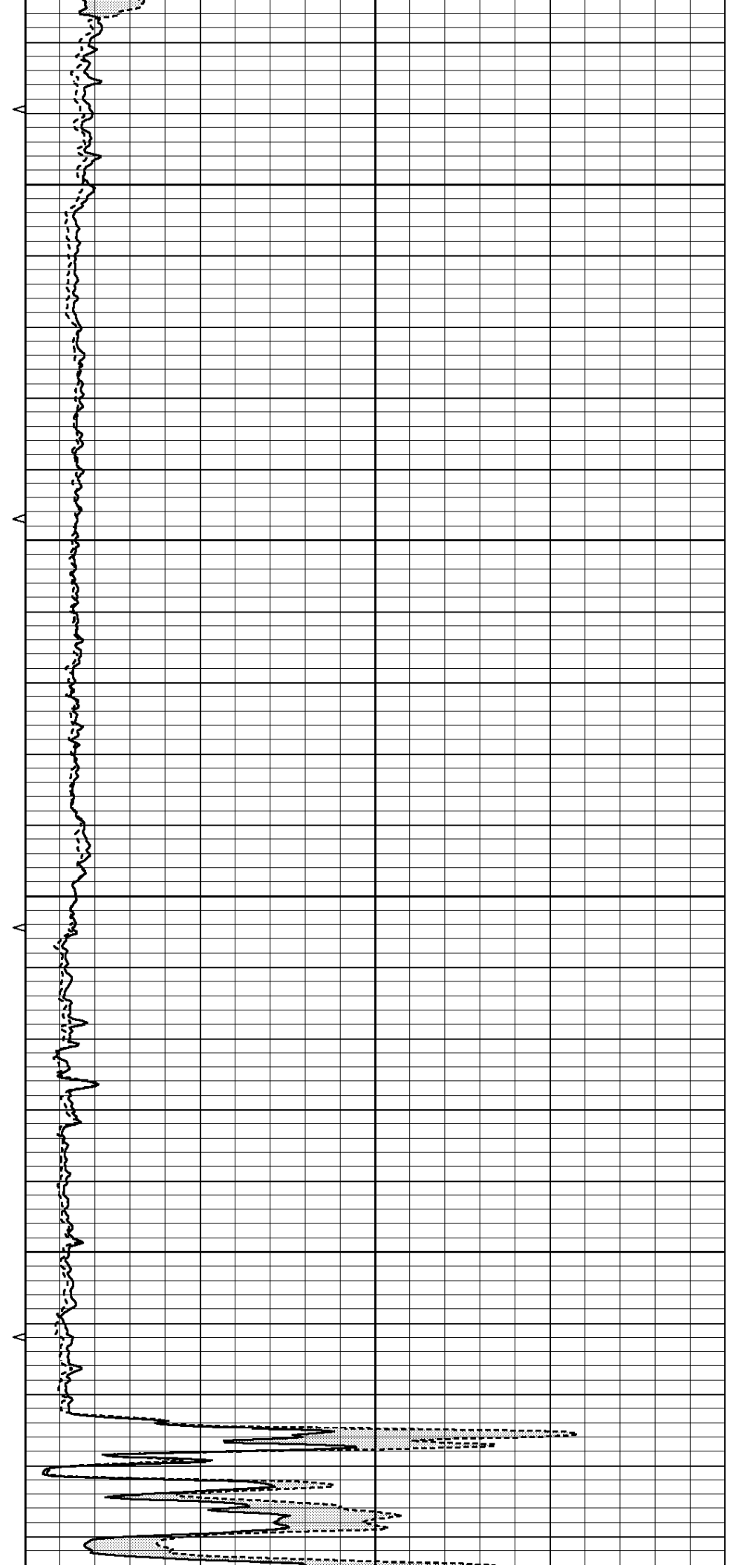
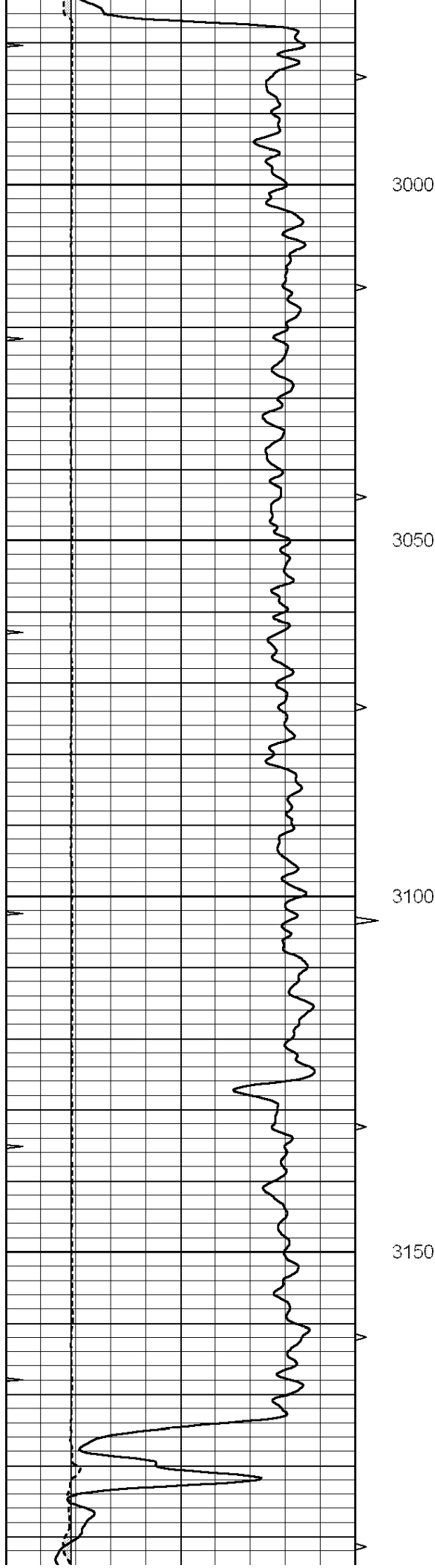
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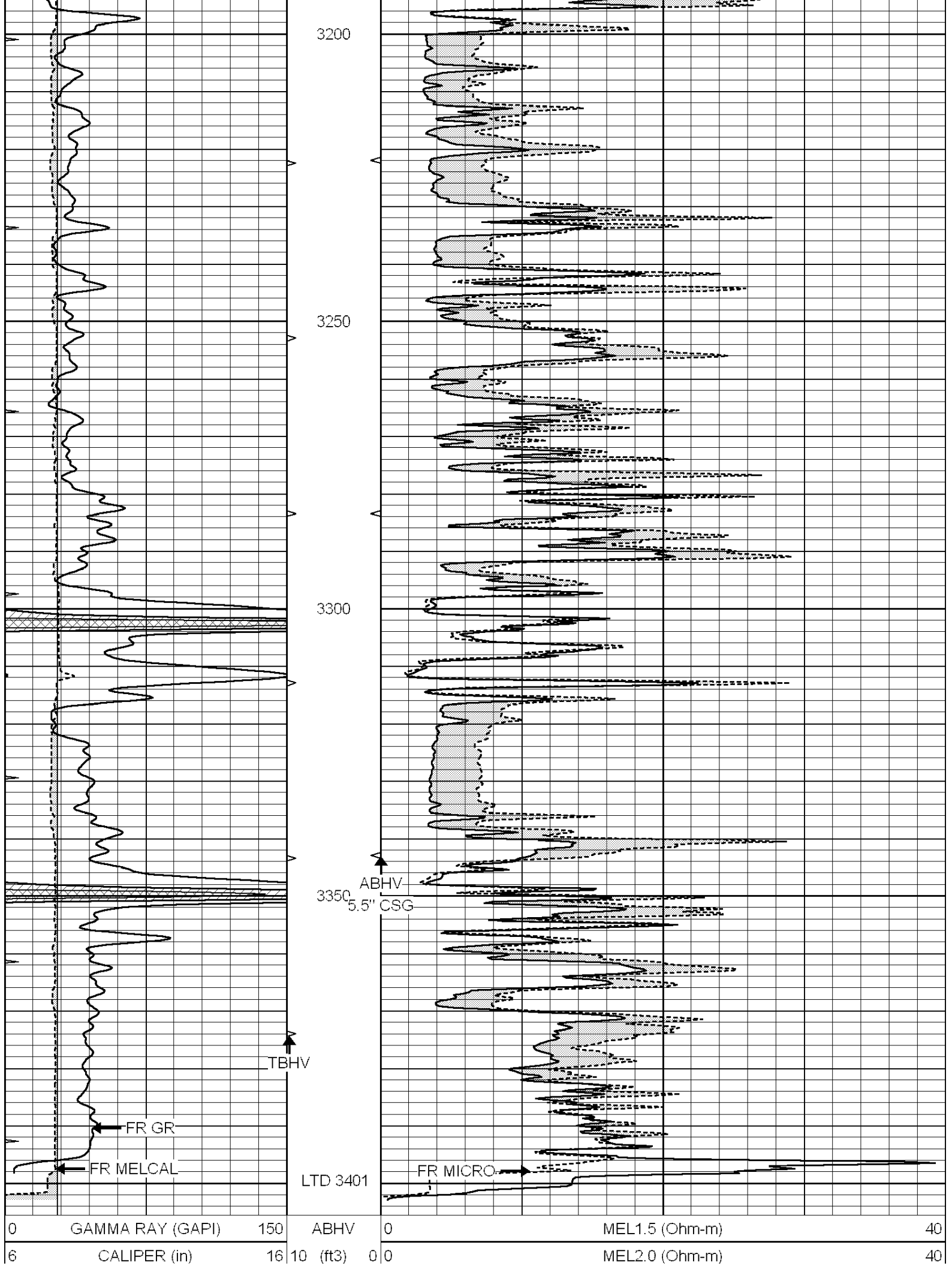
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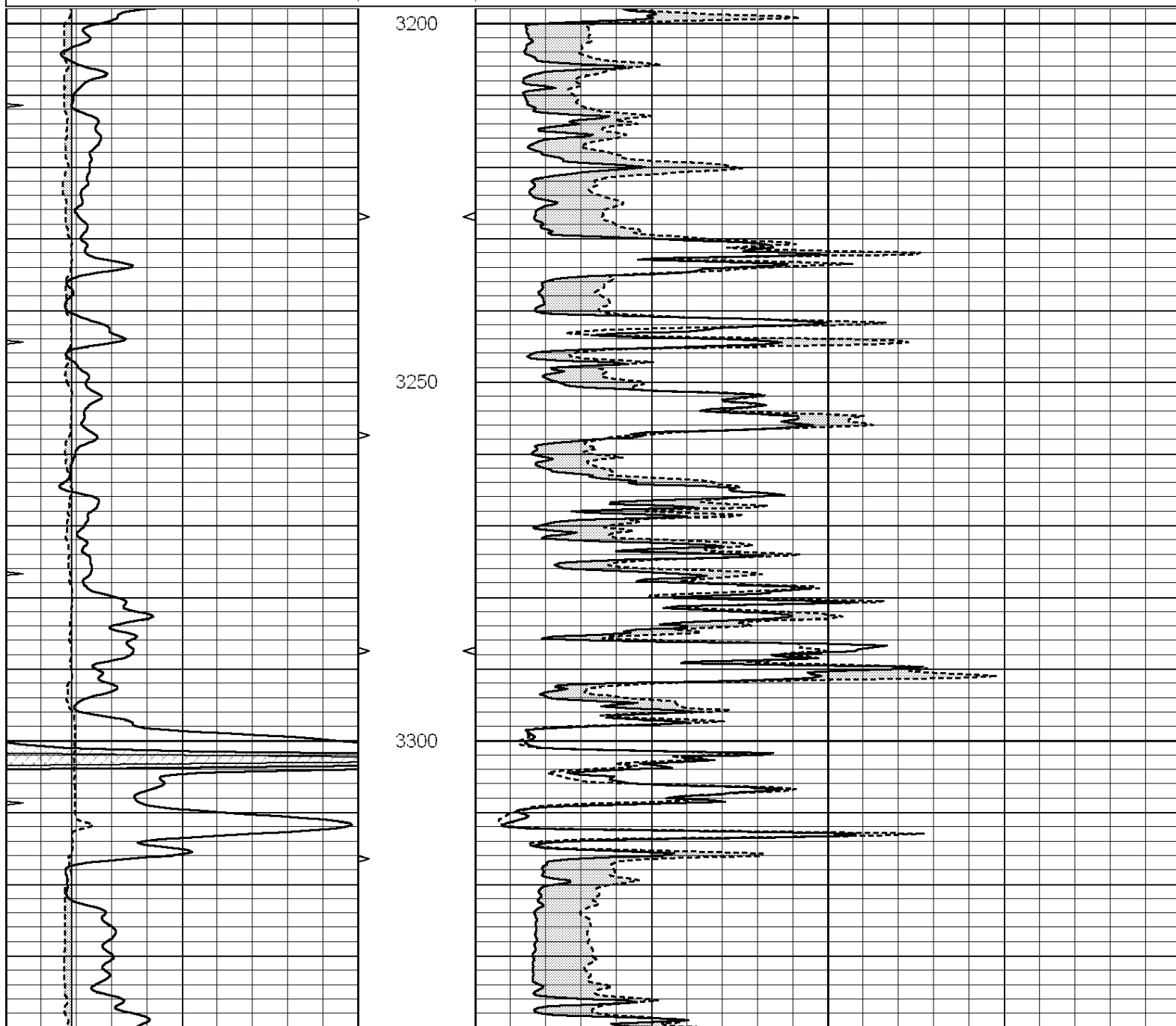
0	MINMK	20	TBHV	
		0	(ft3)	10

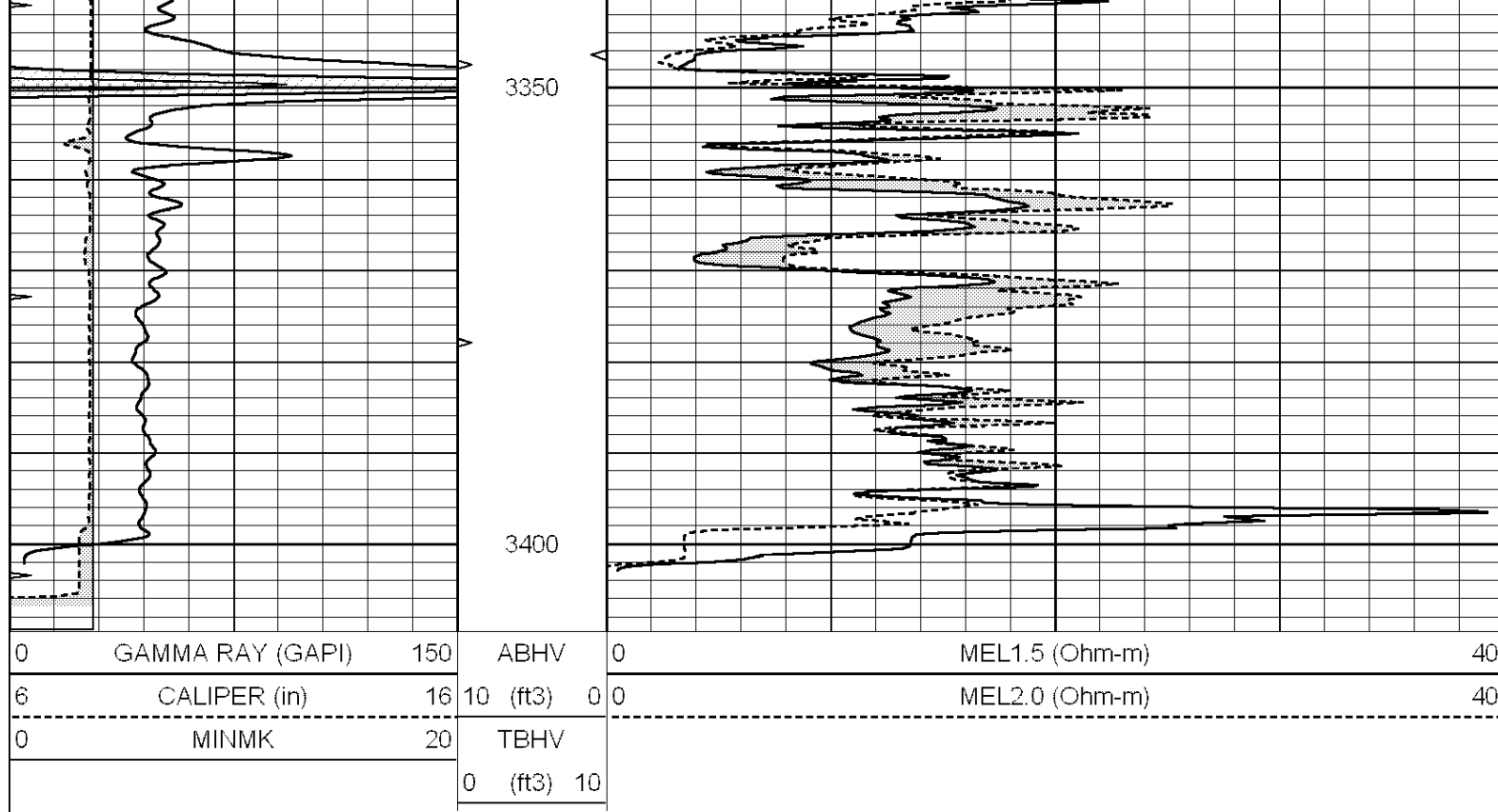


REPEAT SECTION

Database File: 24157pe.db
Dataset Pathname: pass4.2
Presentation Format: micro
Dataset Creation: Sun May 18 20:21:37 2014
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: 24157pe.db
Dataset Pathname: pass5.1
Dataset Creation: Sun May 18 20:20:13 2014 by Calc SOC 120430

MICRO Calibration Report

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

Caliper Calibration: Gain=4.208 Offset=1.470
References Low Cal High Cal
7.800 15.000
Readings 1.552 3.263

1.5" Calibration: Gain=26.000 Offset=0.500
References Low Cal High Cal
0.000 20.000
Readings 0.001 1.229

2" Calibration: Gain=30.000 Offset=-0.500
References Low Cal High Cal
0.000 20.000
Readings 0.004 1.057

Gamma Ray Calibration Report

Serial Number: 070559
Tool Model: OPEN_GR
Performed: Thu May 15 09:17:20 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity:

0.2200

GAPI/cps