



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company L.D. DRILLING, INC.		Company L.D. DRILLING, INC.	
Well ULTRA UNIT #1-13		Well ULTRA UNIT #1-13	
Field WILDCAT		Field WILDCAT	
County GOVE		County GOVE	
State KANSAS		State KANSAS	
Location:		API # : 15-063-22251-00-00	Other Services CNL/CDL DIL
Permanent Datum		2395' FNL & 2220' FWL	Elevation K.B. 2781 D.F. 2779 G.L. 2776
Log Measured From		SEC 13 TWP 13S RGE 29W SW - SE - SE - NW	
Drilling Measured From		GROUND LEVEL Elevation 2776 KELLY BUSHING 5' A.G.L KELLY BUSHING	
Date	3-25-15		
Run Number	TWO		
Depth Driller	4621		
Depth Logger	4620		
Bottom Logged Interval	4618		
Top Log Interval	3400		
Casing Driller	8 5/8 @ 387		
Casing Logger	387		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1,500 PPM	
Density / Viscosity	9.3/55		
pH / Fluid Loss	10.5/7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.50 @ 68F		
Rmf @ Meas. Temp	1.13 @ 68F		
Rmc @ Meas. Temp	1.80 @ 68F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.84 @ 122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	122F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	IAN MABB		
Witnessed By	KIM SHOEMAKER		

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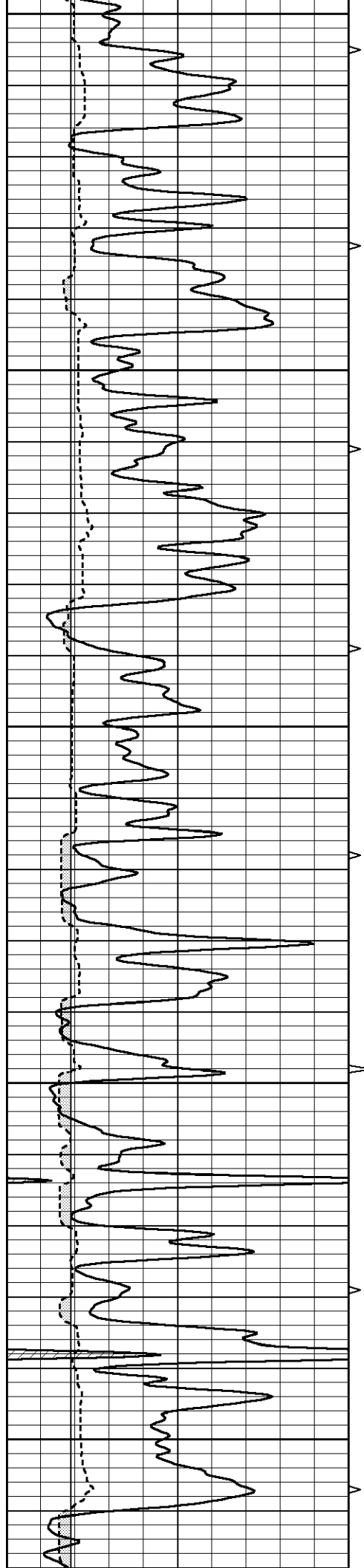
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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, KS. (785) 628-6395
DIRECTIONS : GOVE, KS. - 1 1/2 MILES SOUTH - EAST INTO

Database File 26438ddn.db
Dataset Pathname pass16.1
Presentation Format _micro
Dataset Creation Wed Mar 25 11:34:13 2015
Charted by Depth in Feet scaled 1:240

GAMMA RAY (GAPI)		ABHV		MEL1.5 (Ohm-m)	
0	150	0	40	0	40
CALIPER (in)		TBHV		MEL2.0 (Ohm-m)	
6	16	10 (ft3)	0		40
		0 (ft3) 10			



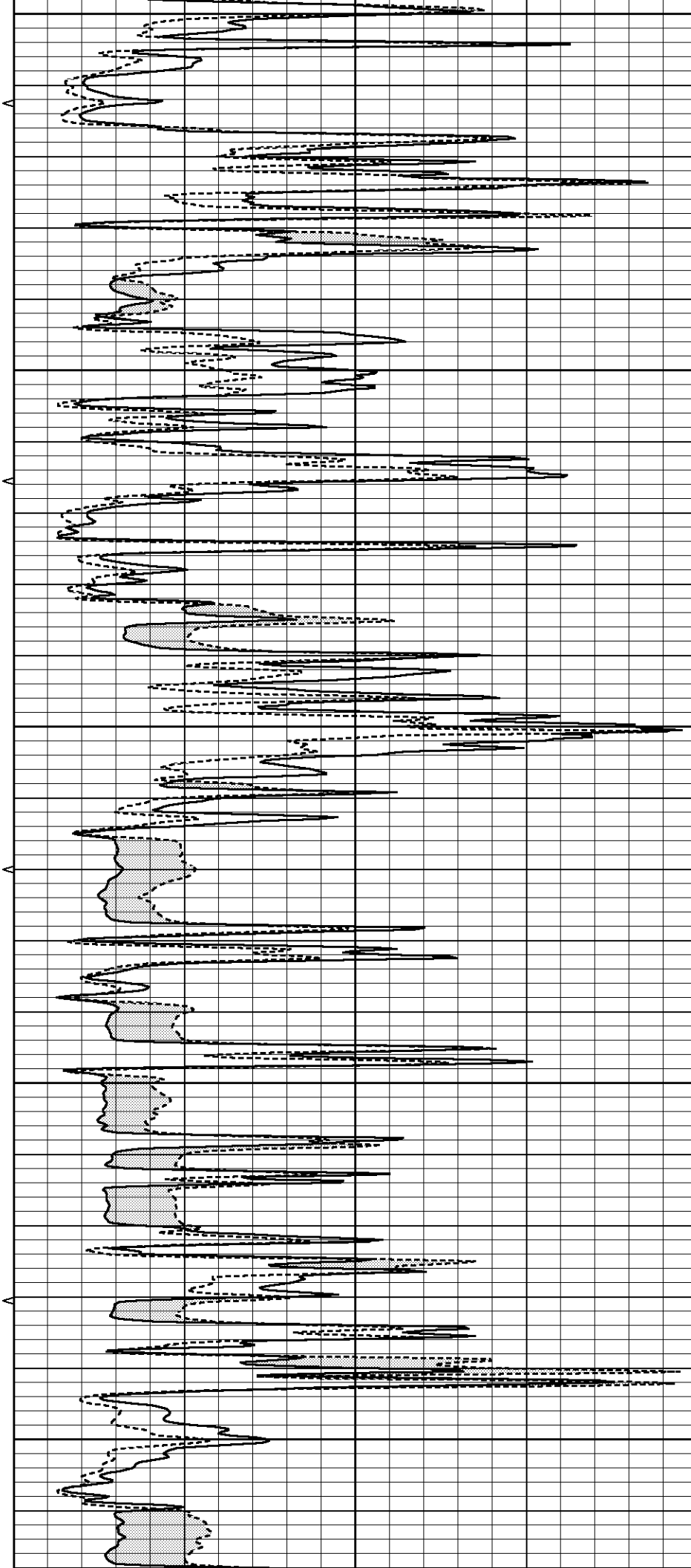
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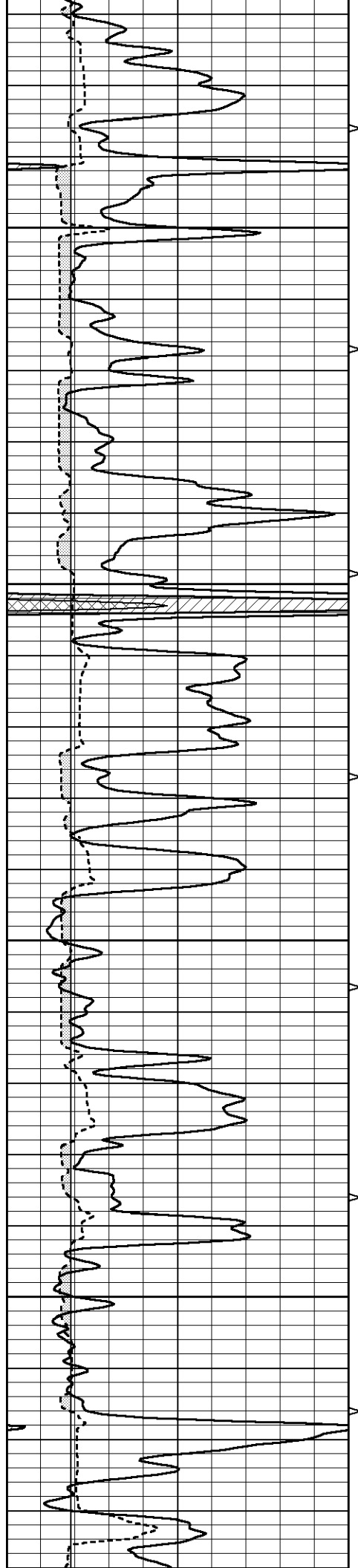
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3750

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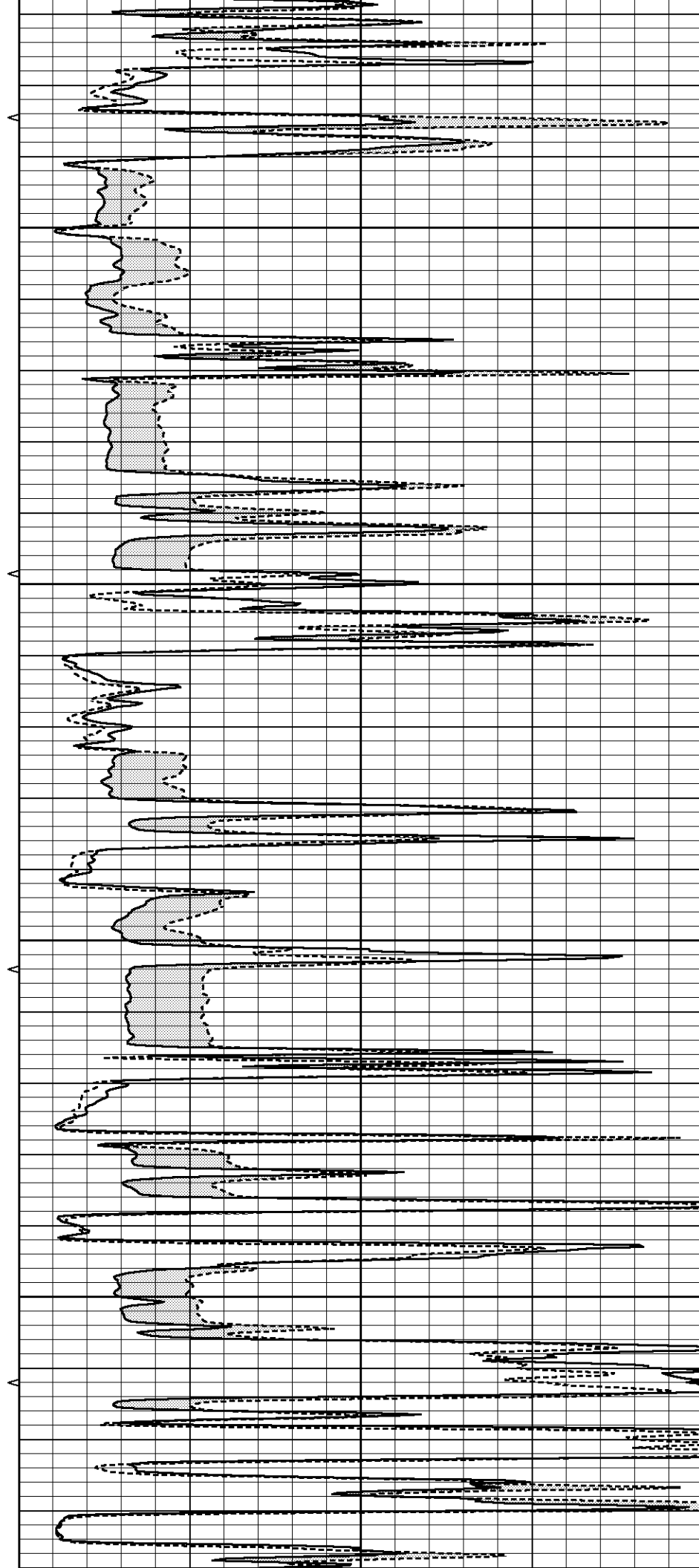


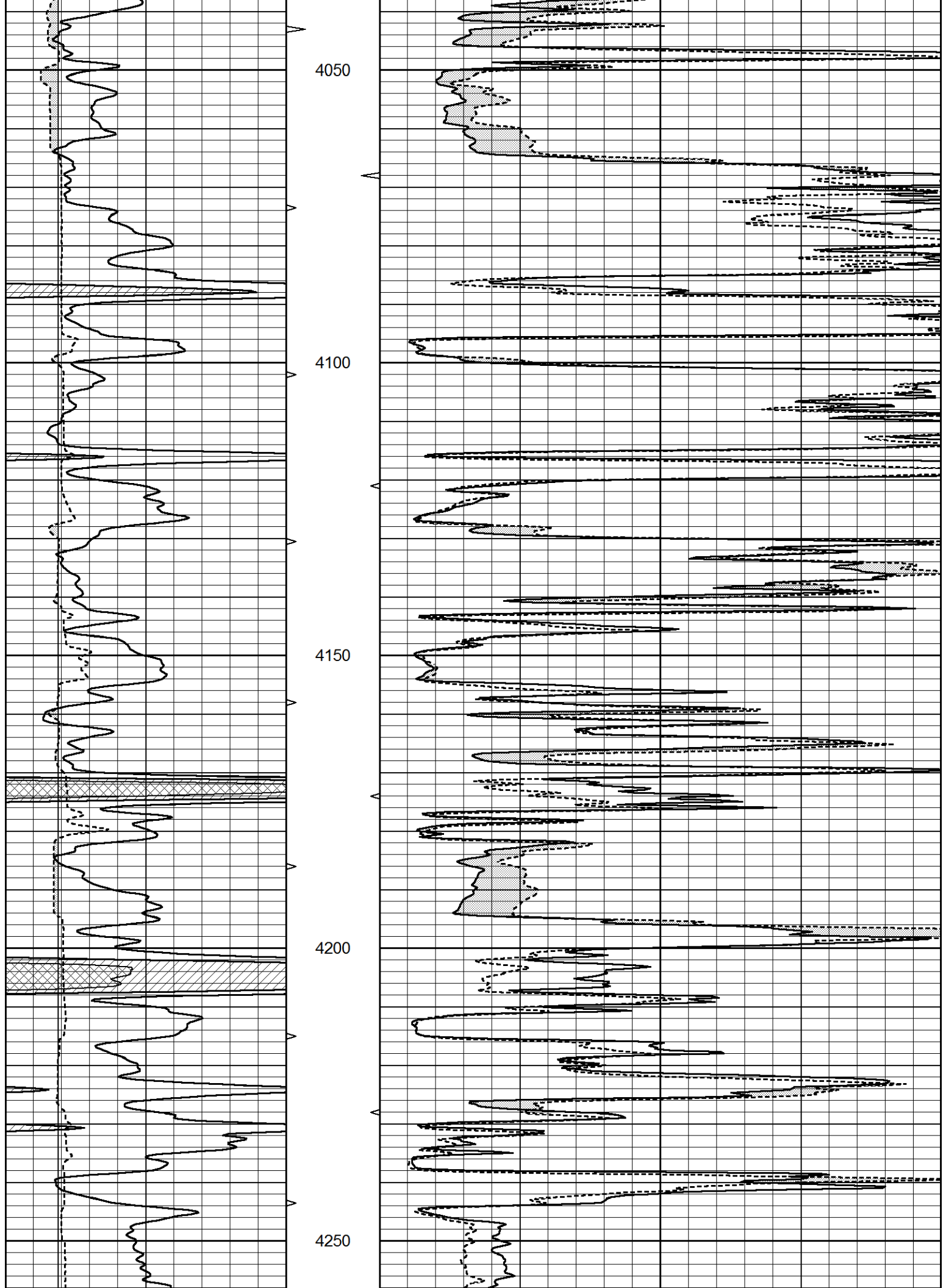
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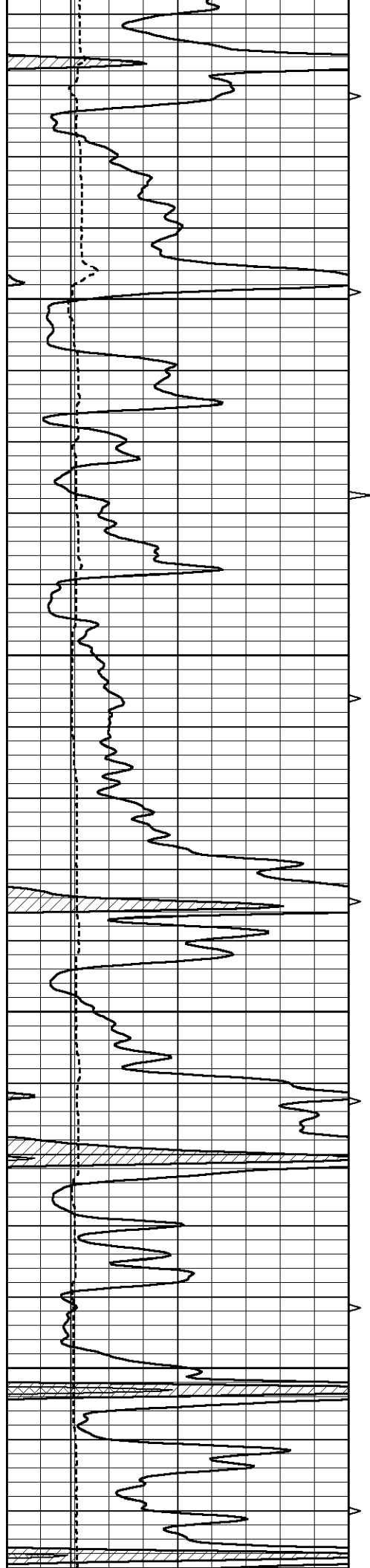
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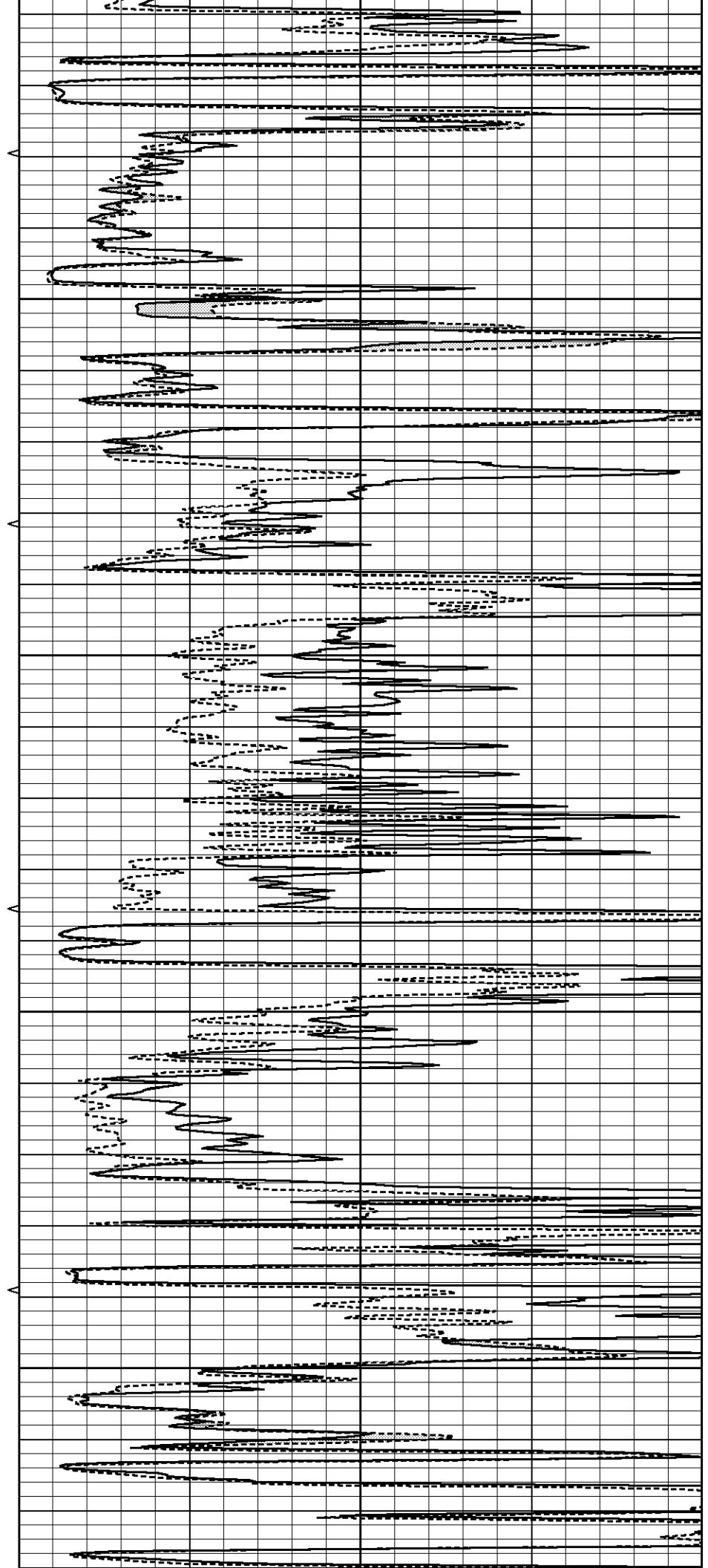


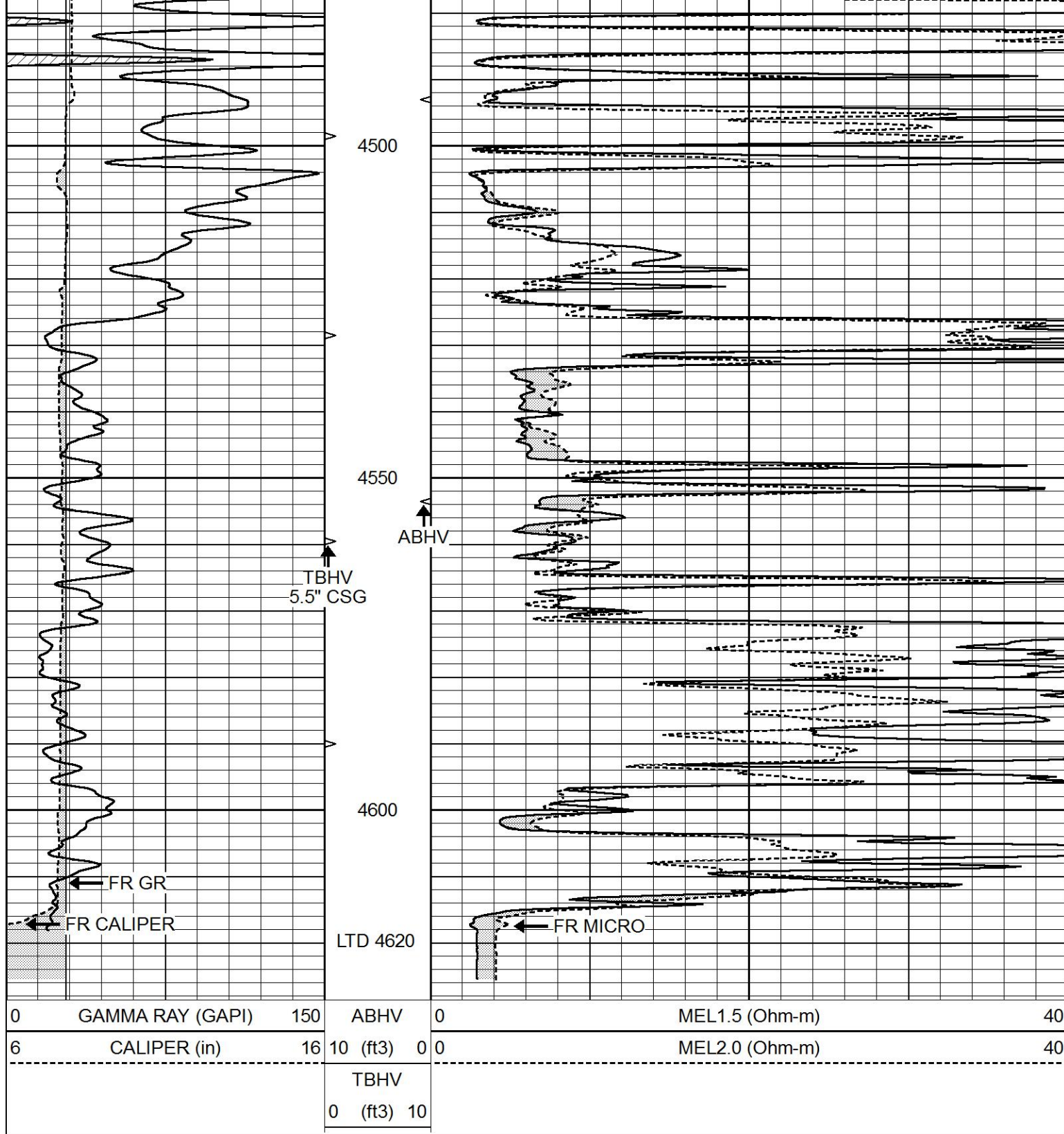
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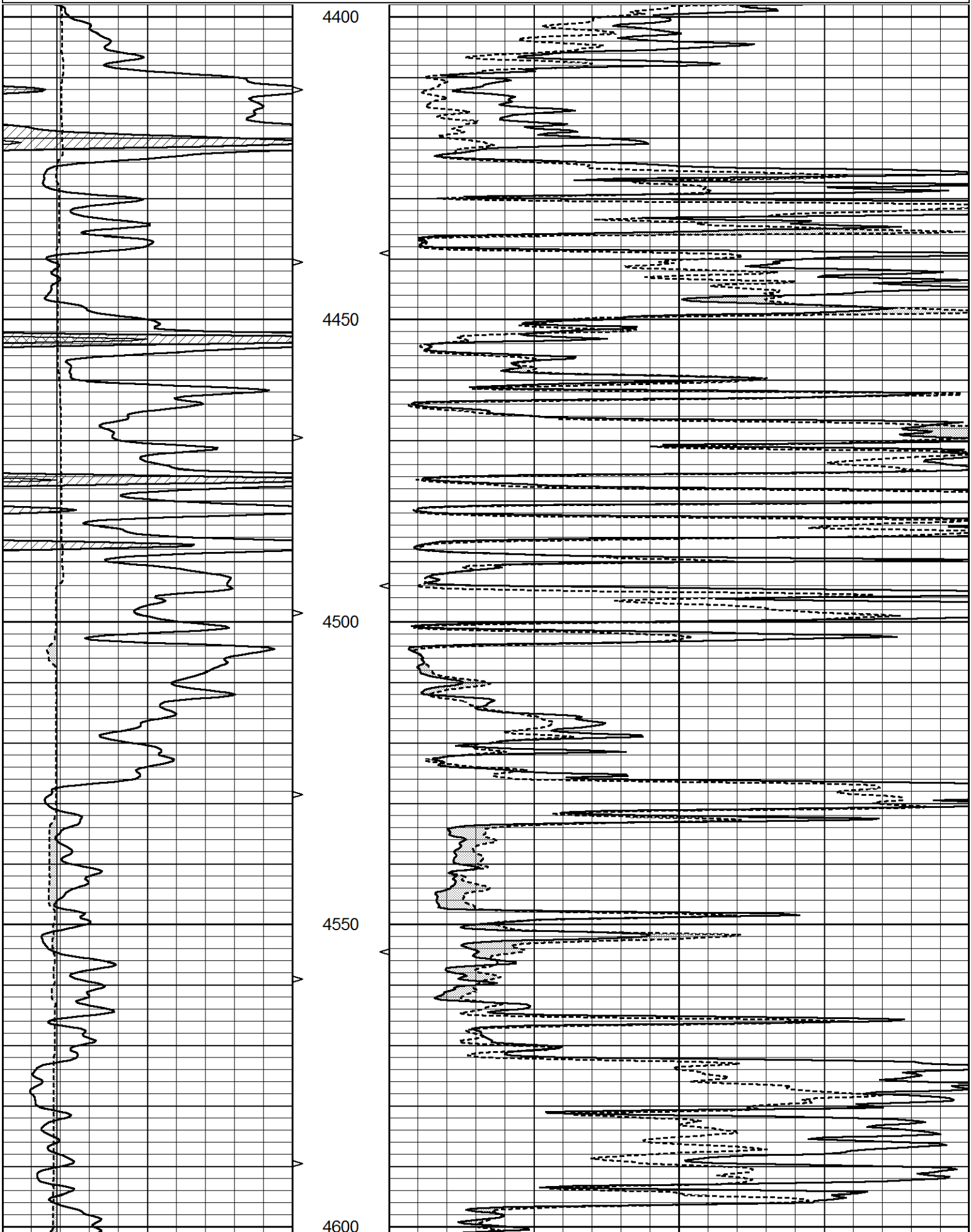
REPEAT SECTION

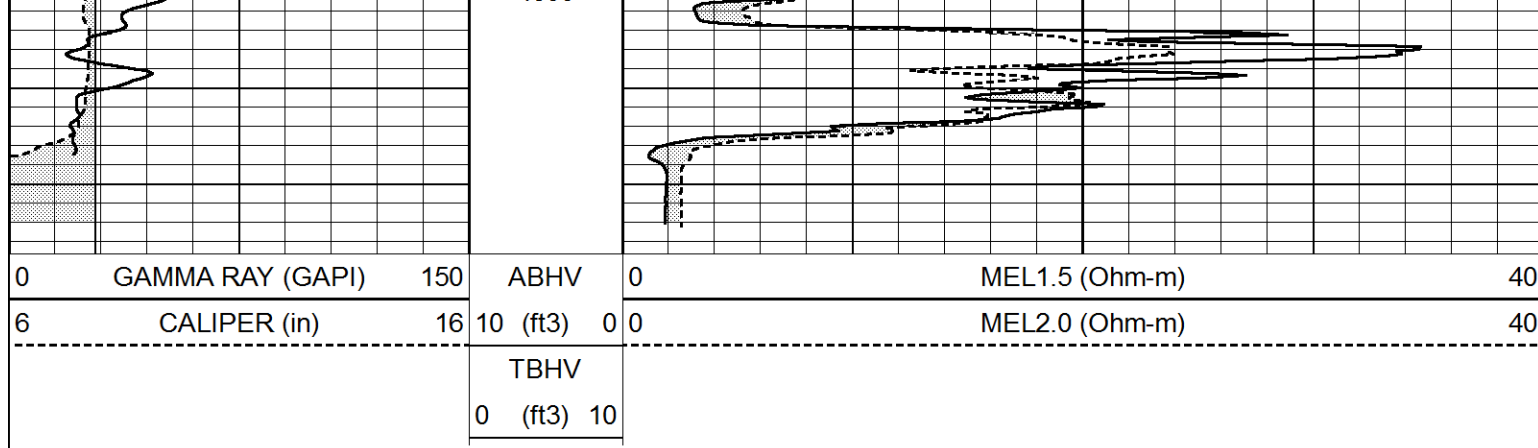
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 Dataset Pathname pass15.2
 Presentation Format _micro
 Dataset Creation Wed Mar 25 11:02:41 2015
 Charted by Depth in Feet scaled 1:240



TBHV

0 (ft3) 10





Calibration Report	
Database File	26438ddn.db
Dataset Pathname	pass16.1
Dataset Creation	Wed Mar 25 11:34:13 2015

MICRO_USR Calibration Report

Serial Number:	070911	
Tool Model:	ProbeL	
Performed:	Thu Nov 20 18:56:37 2014	
Caliper Calibration:	Gain=4.161	Offset=2.300
References	Low Cal	High Cal
Readings	8.000	14.000
	1.333	2.775
1.5" Calibration:	Gain=23.838	Offset=0.000
References	Low Cal	High Cal
Readings	0.000	20.000
	0.004	0.843
2" Calibration:	Gain=35.000	Offset=-0.350
References	Low Cal	High Cal
Readings	0.000	20.000
	0.021	0.810

Microlog Calibration Report

Serial-Model:		070911-ProbeL					
Performed:		Thu Feb 12 15:46:39 2015					
Readings			References			Results	
	Zero	Cal		Zero	Cal	m	b
Normal	0.8324	1.2051		2.0000	20.0000	Ohm-m	48.2908
Inverse	0.8339	1.3499		2.0000	20.0000	Ohm-m	34.8851
Caliper	0.0000	1.0000		0.0000	1.0000	in	1.0000
							0.0000

Gamma Ray Calibration Report

Serial Number:	7	
Tool Model:	Probe1	
Performed:	Thu Jan 01 09:43:47 2015	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Calibrator Reading:

1.0

cps

Sensitivity:

0.5000

GAPI/cps