



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company		PICKERELL DRILLING COMPANY, INC.	
Well	#5 NORTON "B"		
Field	T & L		
County	NESS	State	KANSAS
Location:	AP1 # : 15-135-25523-0000		Other Services CDL/CNL DIL/SON
Permanent Datum		GROUND LEVEL Elevation 2514	
Log Measured From		KELLY BUSHING 7' A.G.L.	
Drilling Measured From		KELLY BUSHING	
Date	1/24/13		
Run Number	TWO		
Depth Driller	4550		
Depth Logger	4554		
Bottom Logged Interval	4536		
Top Log Interval	3500		
Casing Driller	8 5/8" @ 271'		
Casing Logger	270		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6000 PPM	
Density / Viscosity	9.3/46		
pH / Fluid Loss	8.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.75 @ 55F		
Rmt @ Meas. Temp	.56 @ 55F		
Rmc @ Meas. Temp	.90 @ 55F		
Source of Rm / Rmc	MEASUREMENT		
Rm @ BHT	.34 @ 121F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	121F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JERRY SMITH		

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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
NESS CITY, KS. - W. TO LAIRD ELEVATOR - 3 MORE W. TO RD. G
3 N. - 1 1/2 W. INTO



NABORS

**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File:

010633ddn.db

Dataset Pathname:

pass6.1

Presentation Format:

_micro

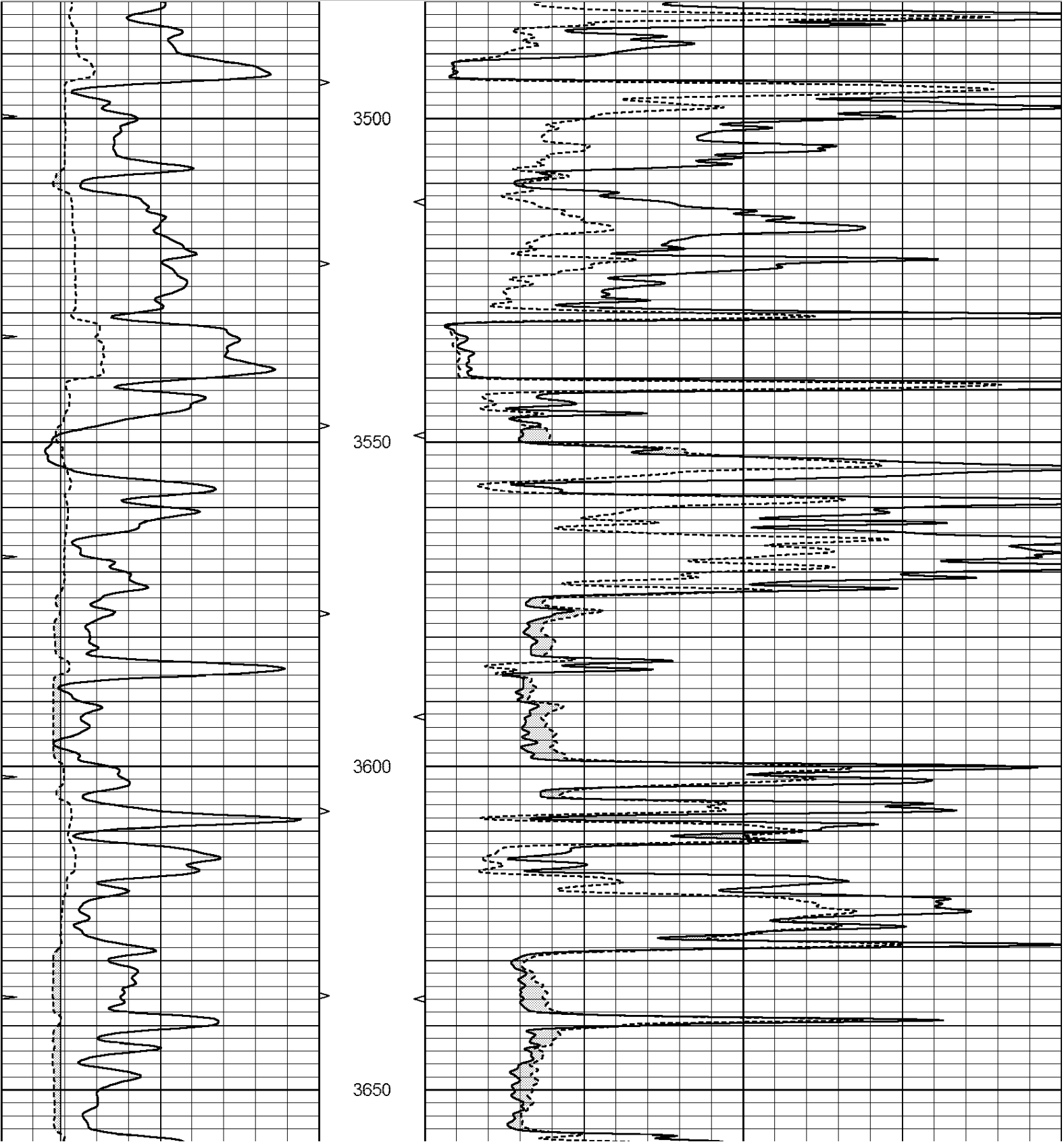
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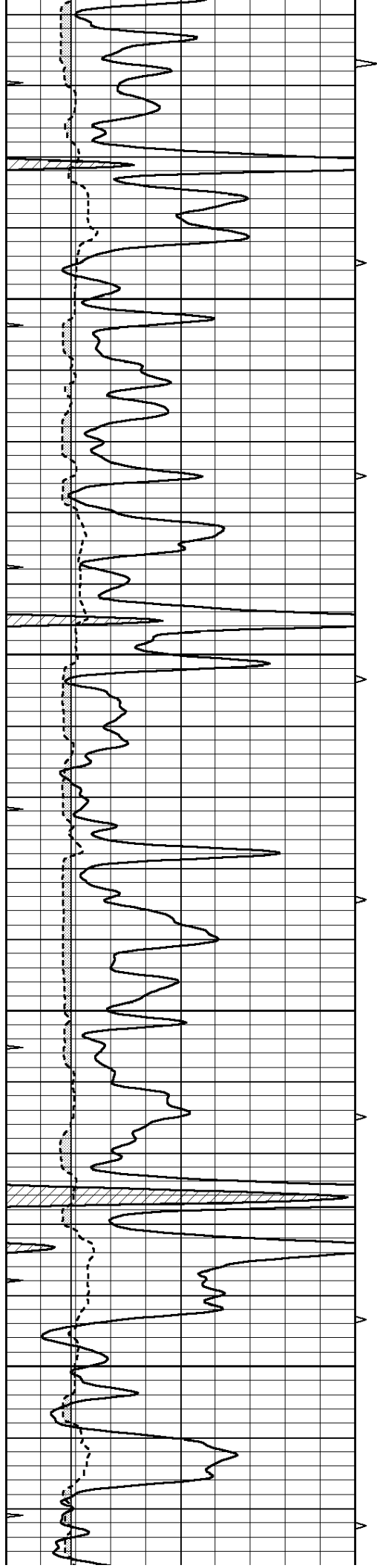
Fri Jan 25 02:36:39 2013 by Calc Open-Cased 090629

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		



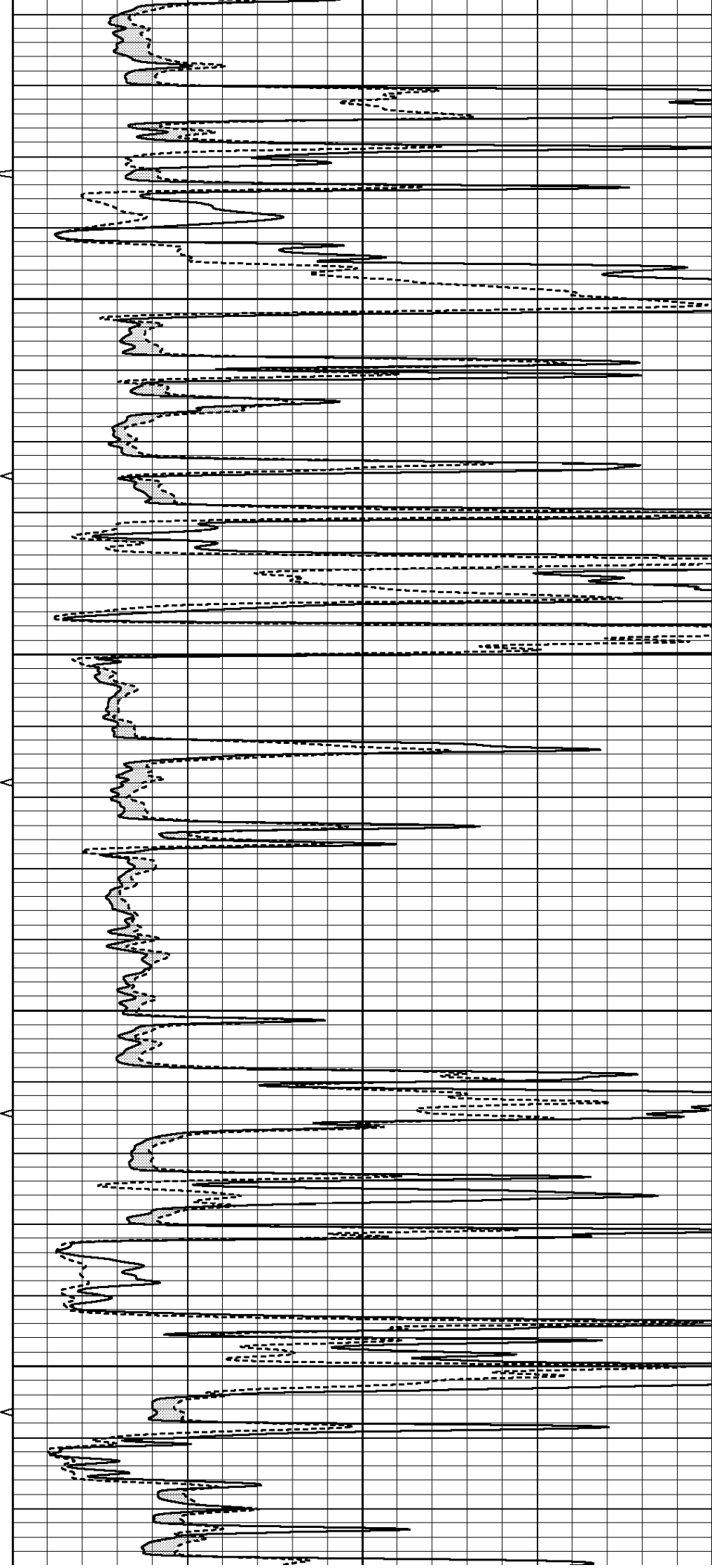


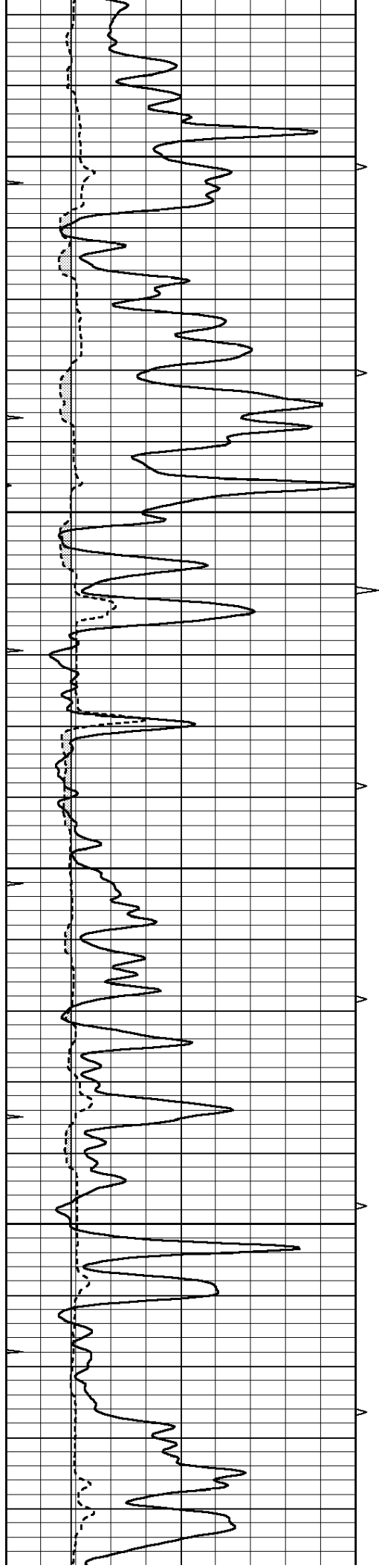
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3750

3800

3850



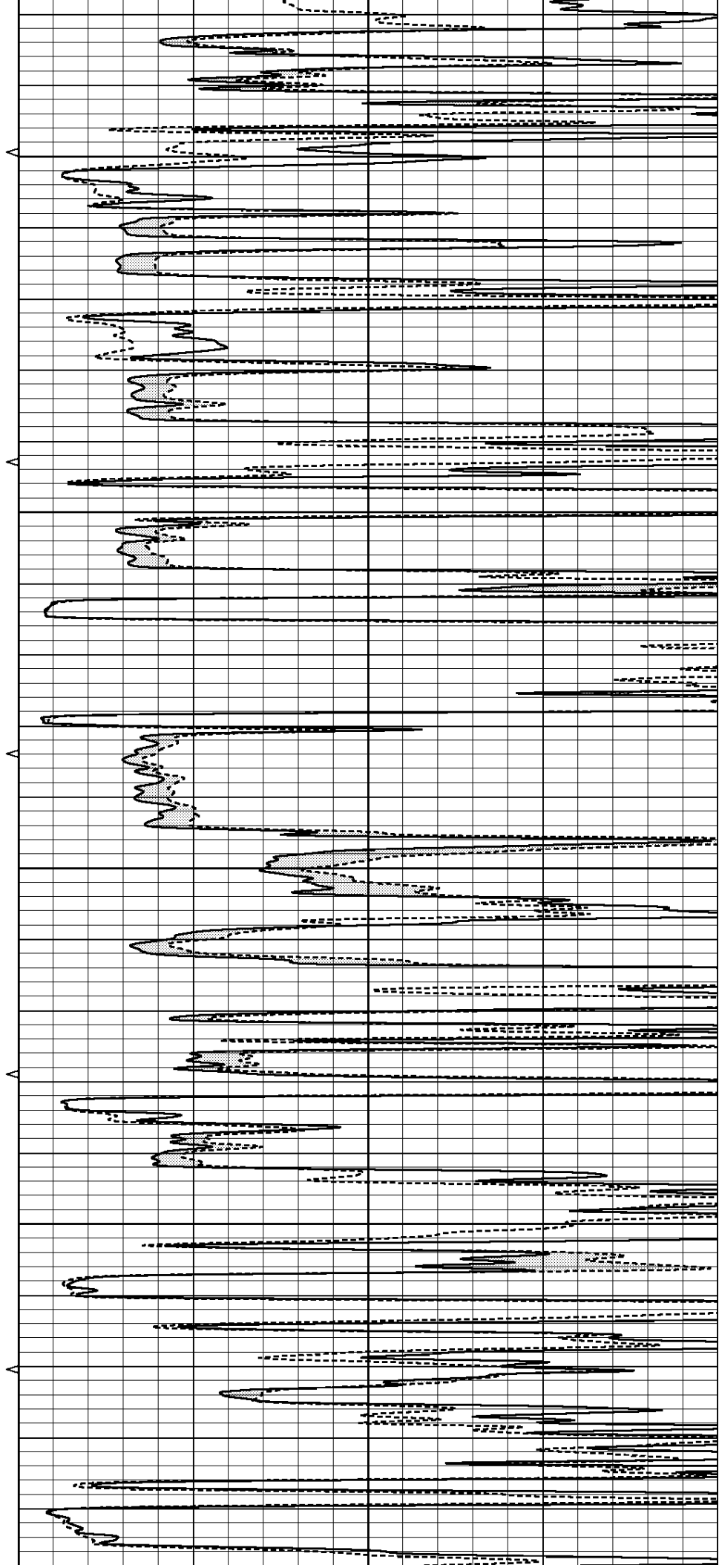


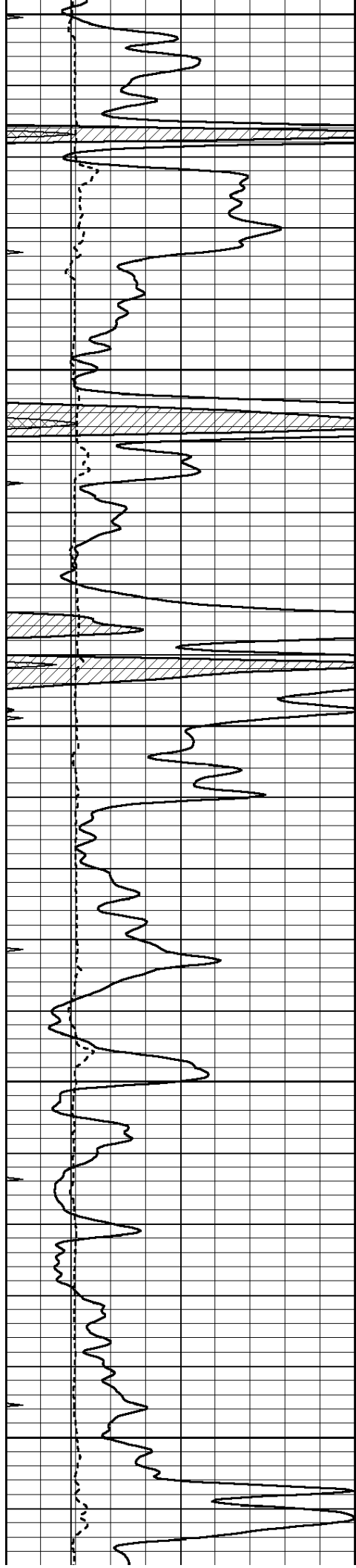
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3950

4000

4050





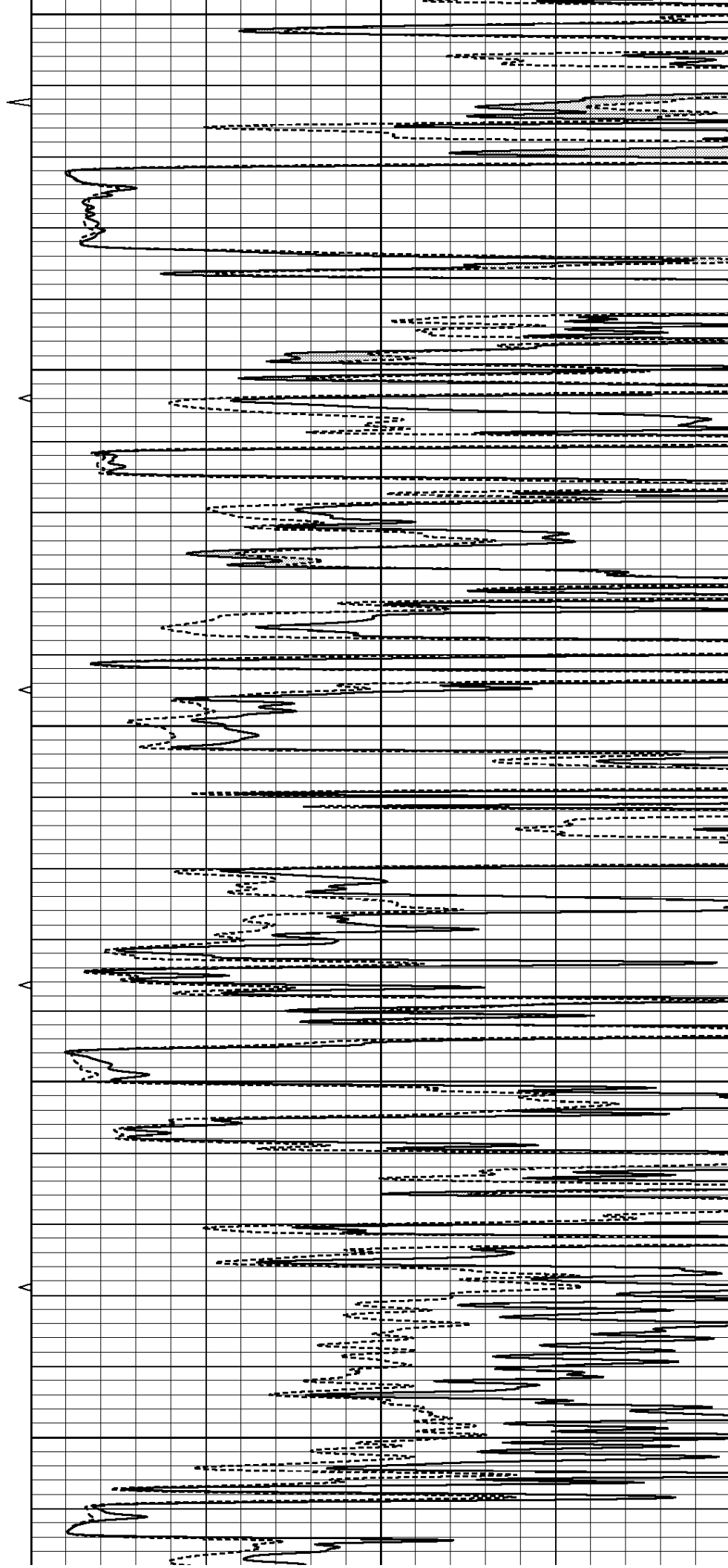
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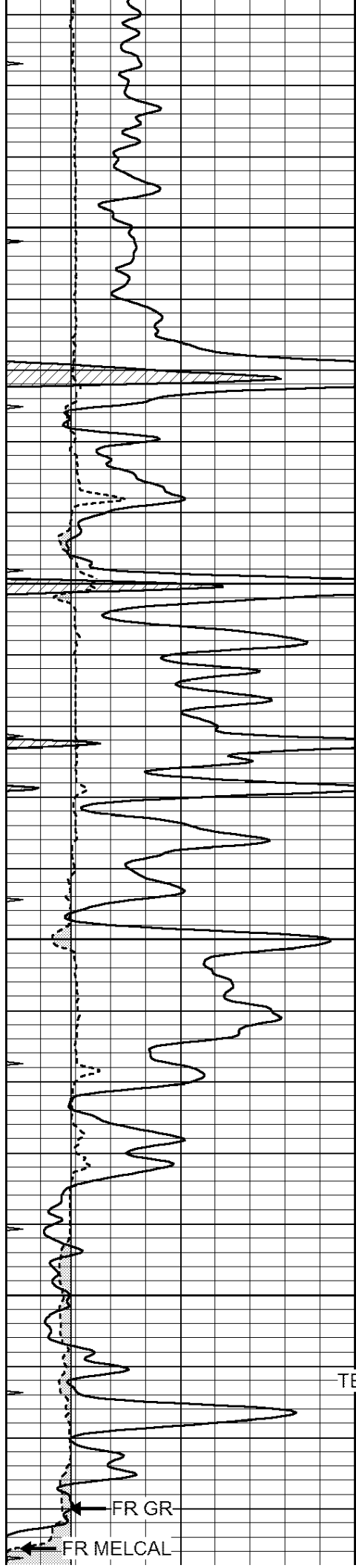
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4200

4250

4300





4350

4400

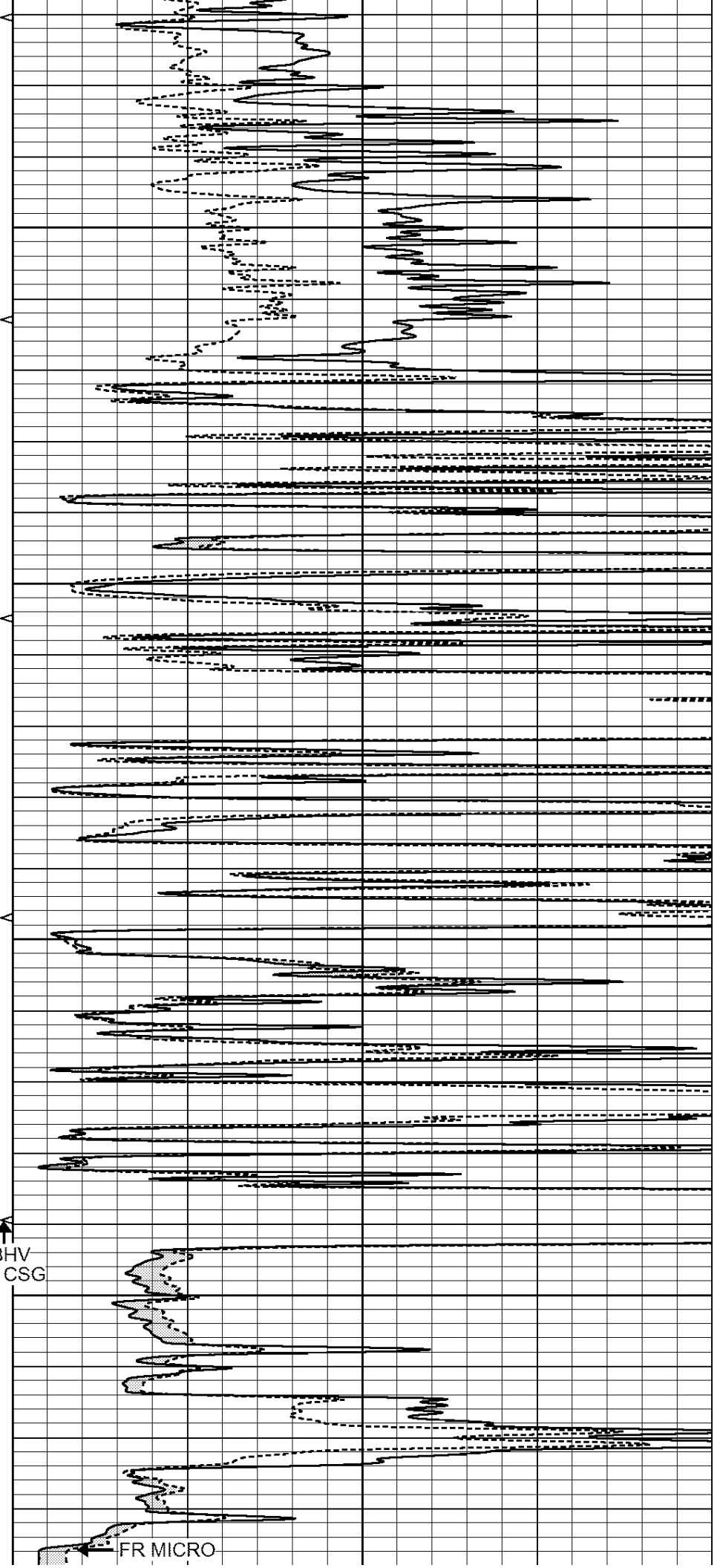
4450

ABHV
4.5" CSG
4500

TBHV

FR GR

FR MELCAL



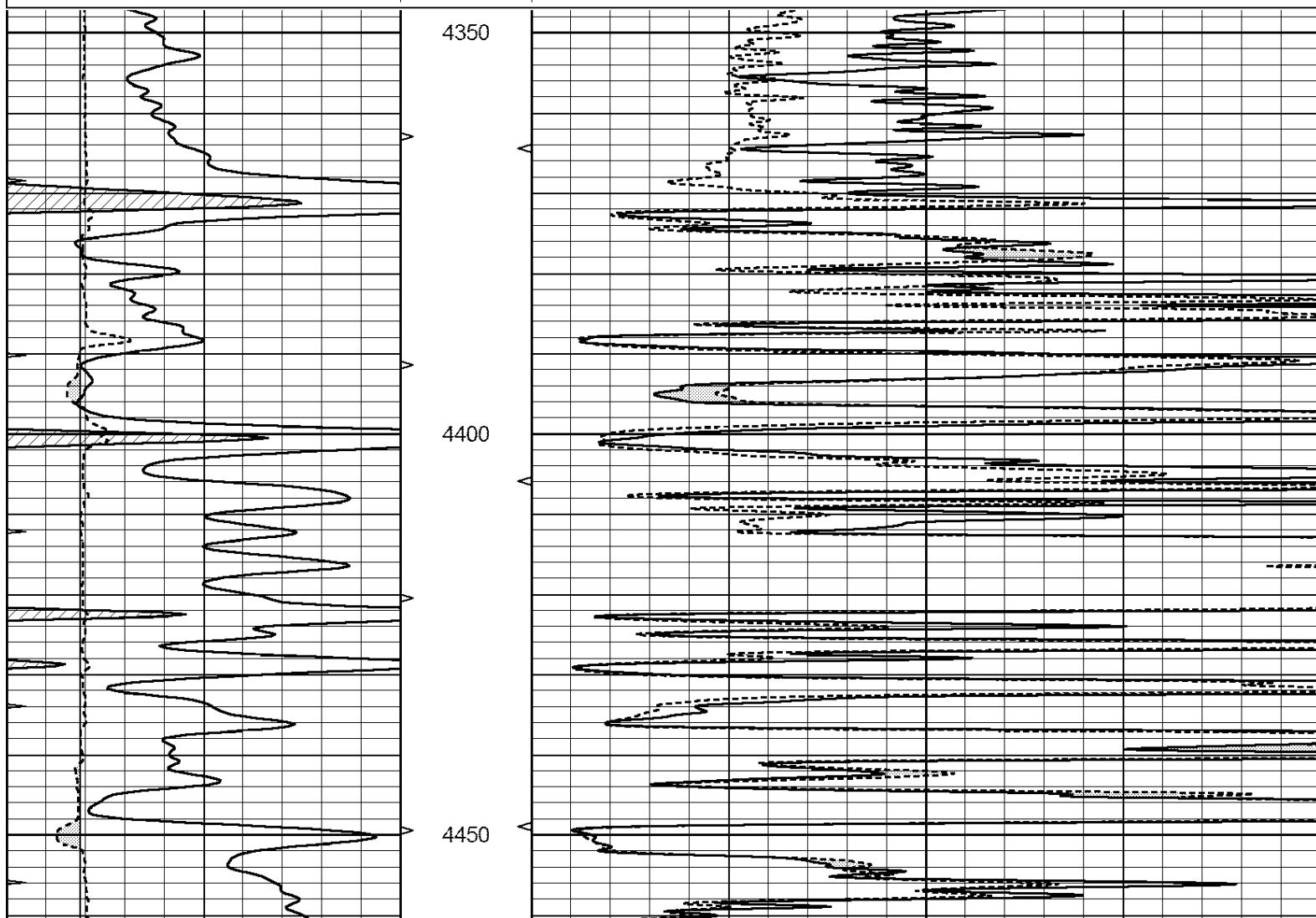
FR MICRO

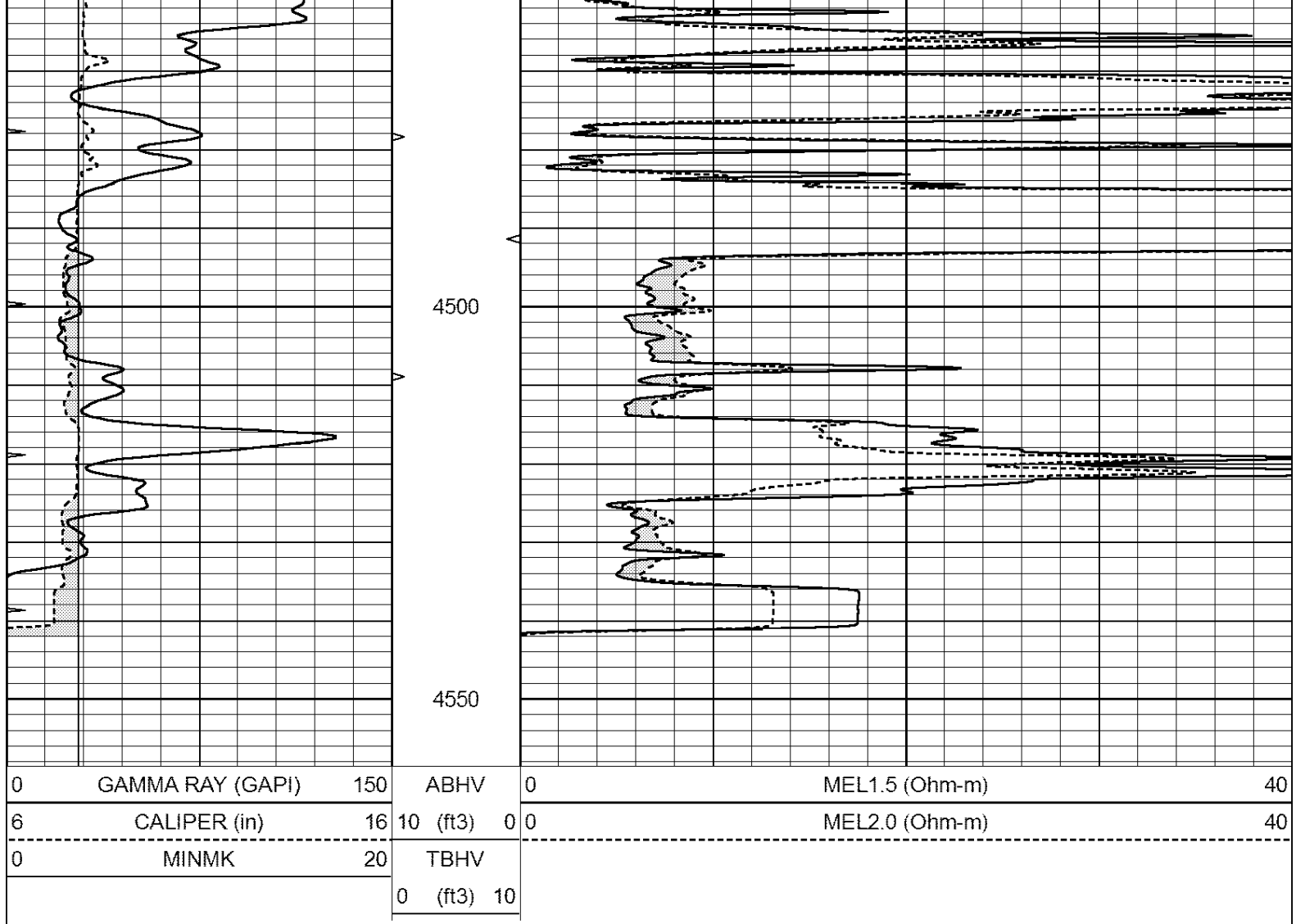
			4550 LTD 4554			
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3) 0	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3) 10			

 NABORS COMPLETION & PRODUCTION SERVICES CO.	REPEAT SECTION
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Database File: 010633ddn.db
 Dataset Pathname: pass5.1
 Presentation Format: _micro
 Dataset Creation: Fri Jan 25 02:38:01 2013 by Calc Open-Cased 090629
 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			





Calibration Report

Database File: 010633ddn.db
 Dataset Pathname: pass5.1
 Dataset Creation: Fri Jan 25 02:38:01 2013 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number:	MICRO6	
Tool Model:	PROBE	
Performed:	Tue Jan 15 17:57:23 2013	
Caliper Calibration:	Gain=5.542	Offset=-1.020
References	Low Cal	High Cal
Readings	8.000	14.000
	1.431	2.513
1.5" Calibration:	Gain=45.075	Offset=-0.700
References	Low Cal	High Cal
Readings	0.000	20.000
	0.004	1.196
2" Calibration:	Gain=38.041	Offset=0.000
References	Low Cal	High Cal
Readings	0.000	20.000
	0.006	0.913

Gamma Ray Calibration Report

Serial Number:	#8
Tool Model:	OPEN
Performed:	Mon Jun 13 16:56:43 2011

Calibrator Value:	150.0	GAPI
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Background Reading:	0.0	cps
Calibrator Reading:	175.0	cps

Sensitivity:	0.8371	GAPI/cps
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