NABORS COMPLETION & PRODUCTION SERVICES CO.

MICRO LOG

Company	MULL DRILLING COMPANY, INC.
Well	#3 TJADEN "C"
Field	SPIVEY - GRABS - BASIL
County	KINGMAN
State	KANSAS

Company MULL DRILLING COMPANY, INC.

Well #3 TJADEN "C"

Field SPIVEY - GRABS - BASIL

County KINGMAN State KANSAS

Location: API # : 15-095-22272-0000

1980' FNL & 660' FWL

SEC 18 TWP 30S RGE 7W

Permanent Datum GROUND LEVEL Elevation 1472

Log Measured From KELLY BUSHING 10' A.G.L.

Drilling Measured From KELLY BUSHING

Other Services: CDL/CNL/PE, DIL/SONIC

Elevation: K.B. 1482, D.F. 1480, G.L. 1472

Date	6/5/13		
Run Number	TWO		
Depth Driller	4400		
Depth Logger	4401		
Bottom Logged Interval	4379		
Top Log Interval	2900		
Casing Driller	8 5/8"@226'		
Casing Logger	226		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,000 PPM	
Density / Viscosity	9.4/50		
pH / Fluid Loss	8.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.950@85F		
Rmf @ Meas. Temp	.713@85F		
Rmc @ Meas. Temp	1.14@85F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.673@120F		
Time Circulation Stopped	4 HOURS		
Time Logger on Bottom	5:45 P.M.		
Maximum Recorded Temperature	120F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KEVIN KESSLER		

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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

RAGO, KS. 2S. ON HWY 14 TO "RD. SE 150", 3W. TO CATTLE GUARD, 3/4N. INTO

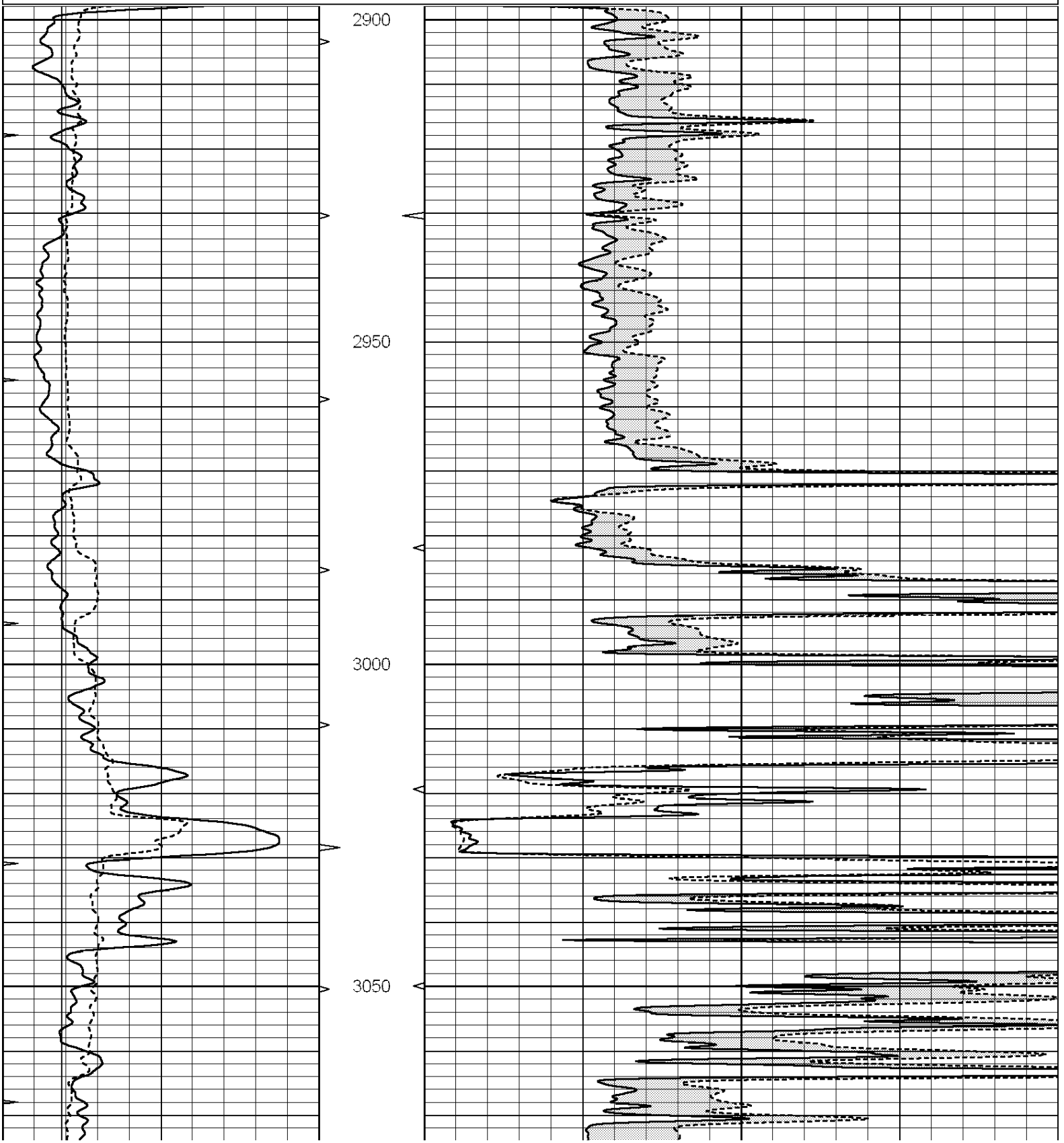
NABORS COMPLETION & PRODUCTION

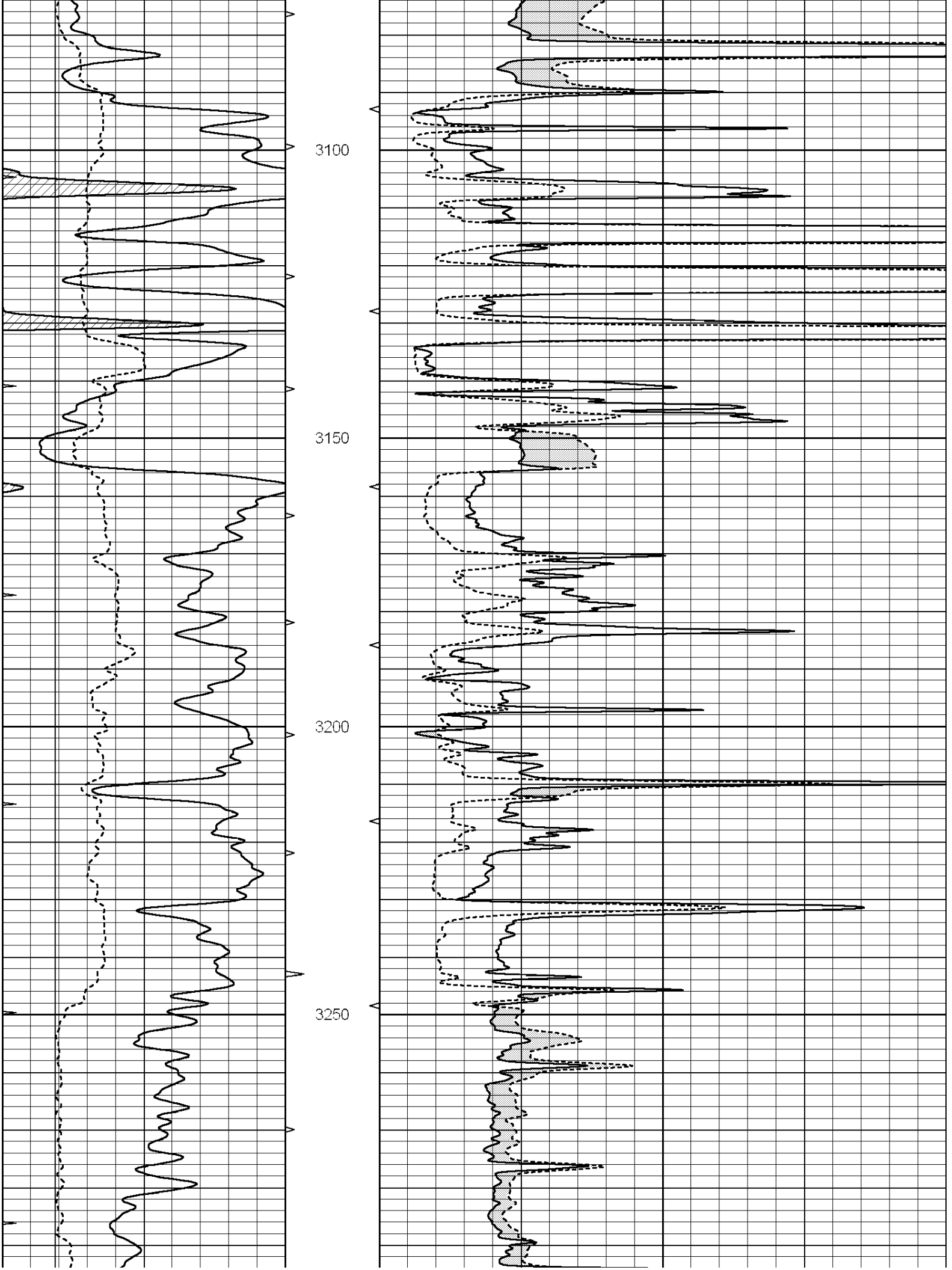
MAIN SECTION

SERVICES CO.

Database File:	010918pe.db
Dataset Pathname:	pass6.3
Presentation Format:	micro
Dataset Creation:	Wed Jun 05 20:59:23 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	0 MEL2.0 (Ohm-m) 40
0 MINMK 20	TBHV	
	0 (ft3) 10	

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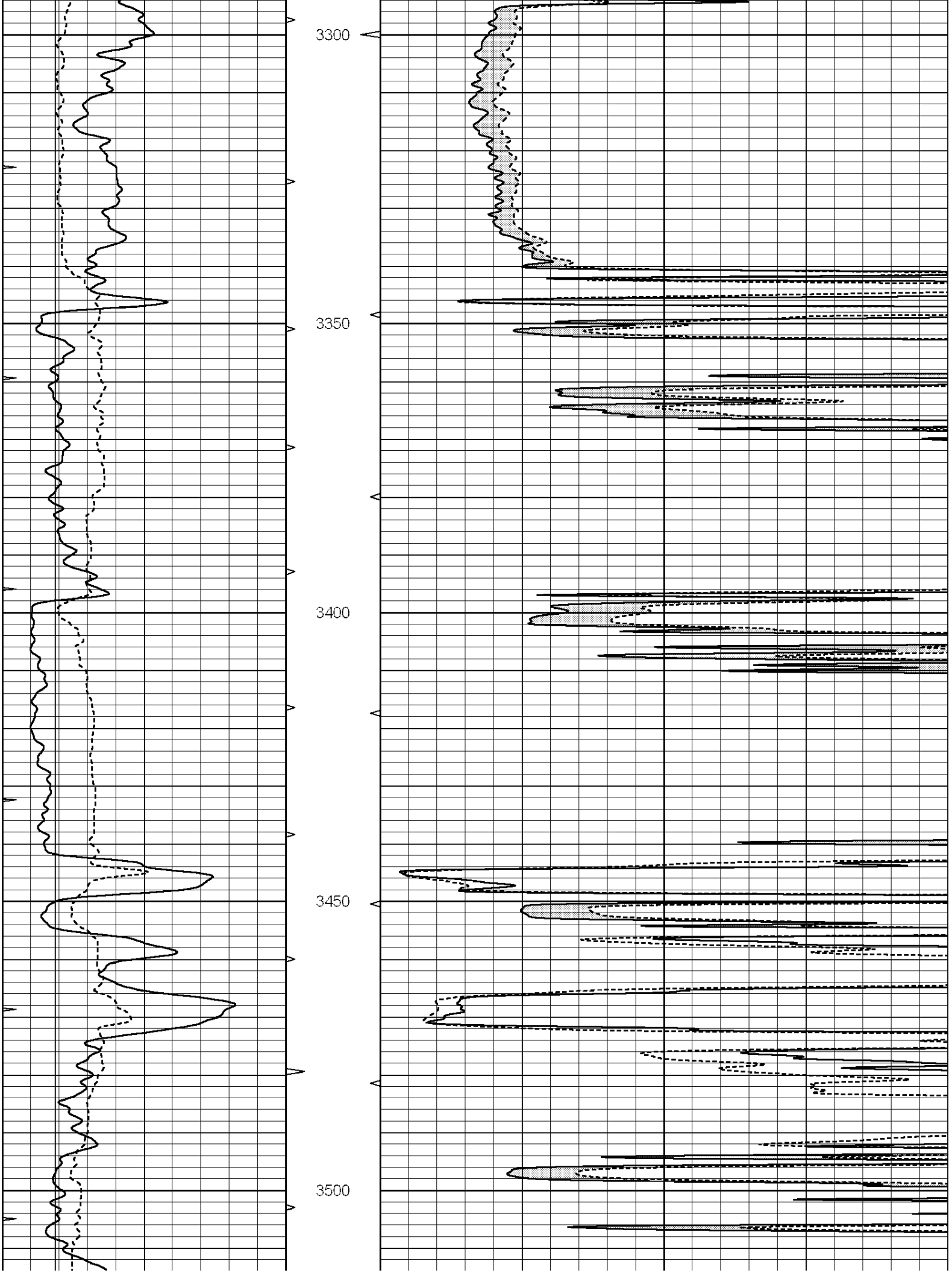
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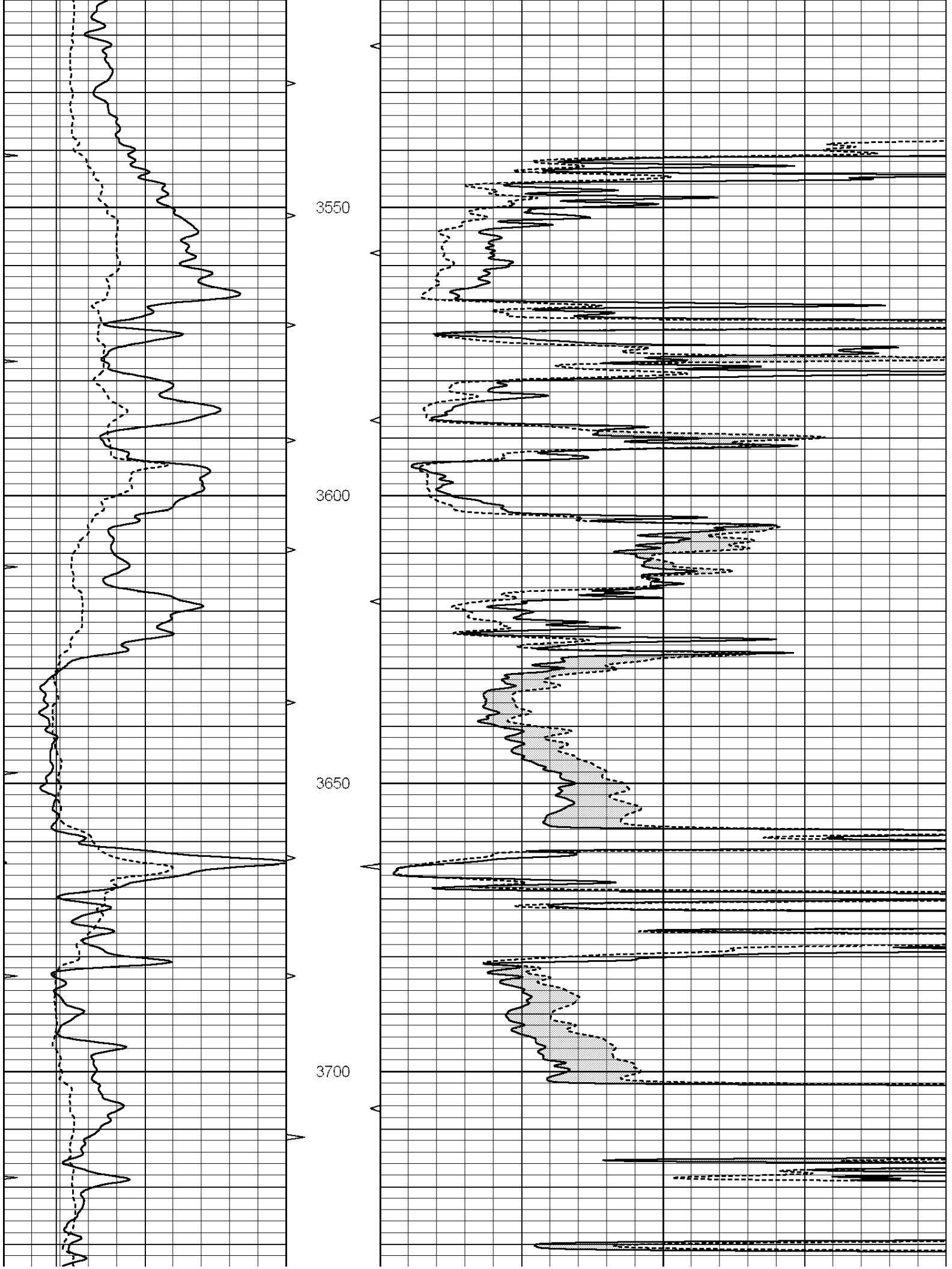
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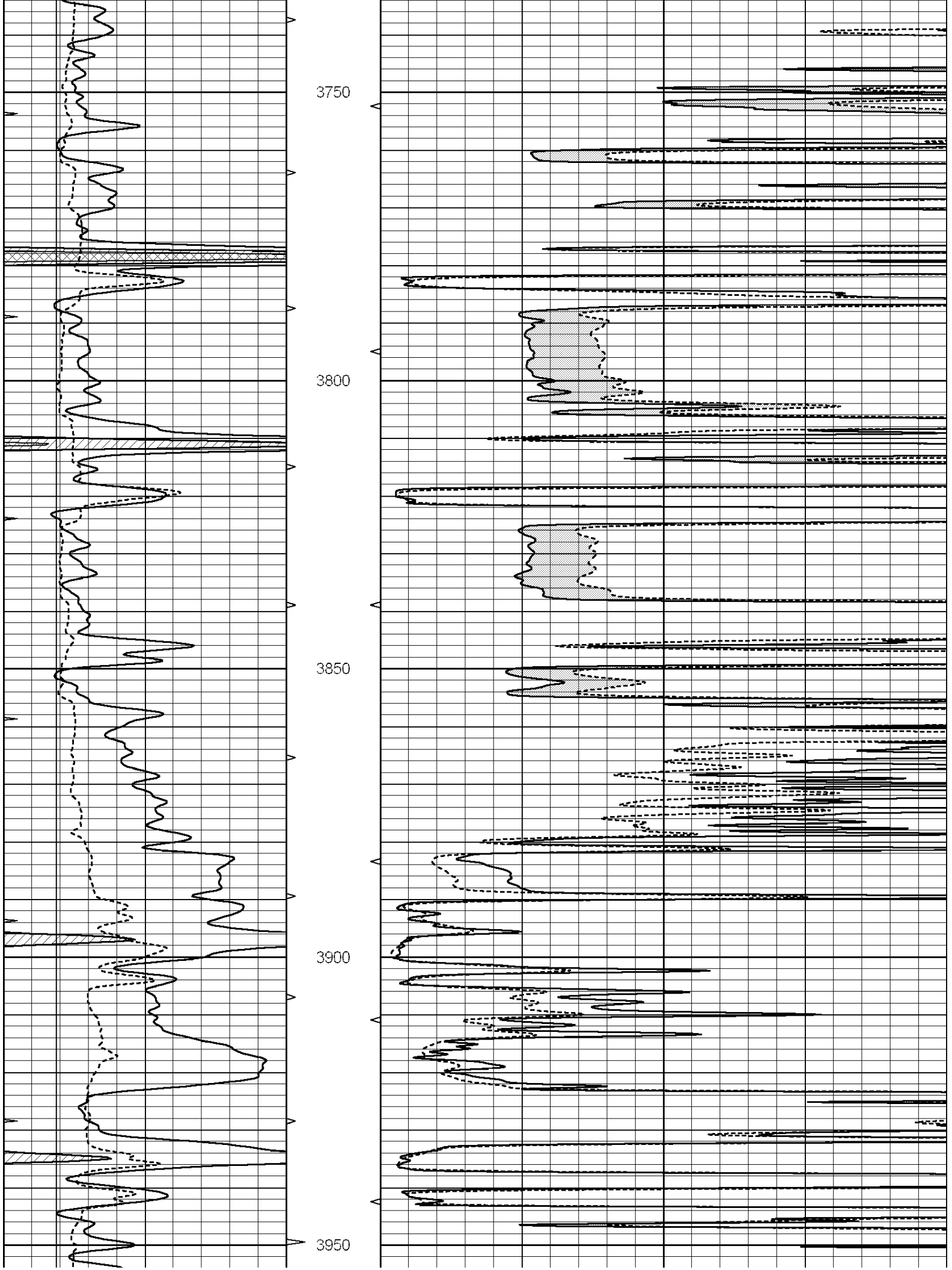
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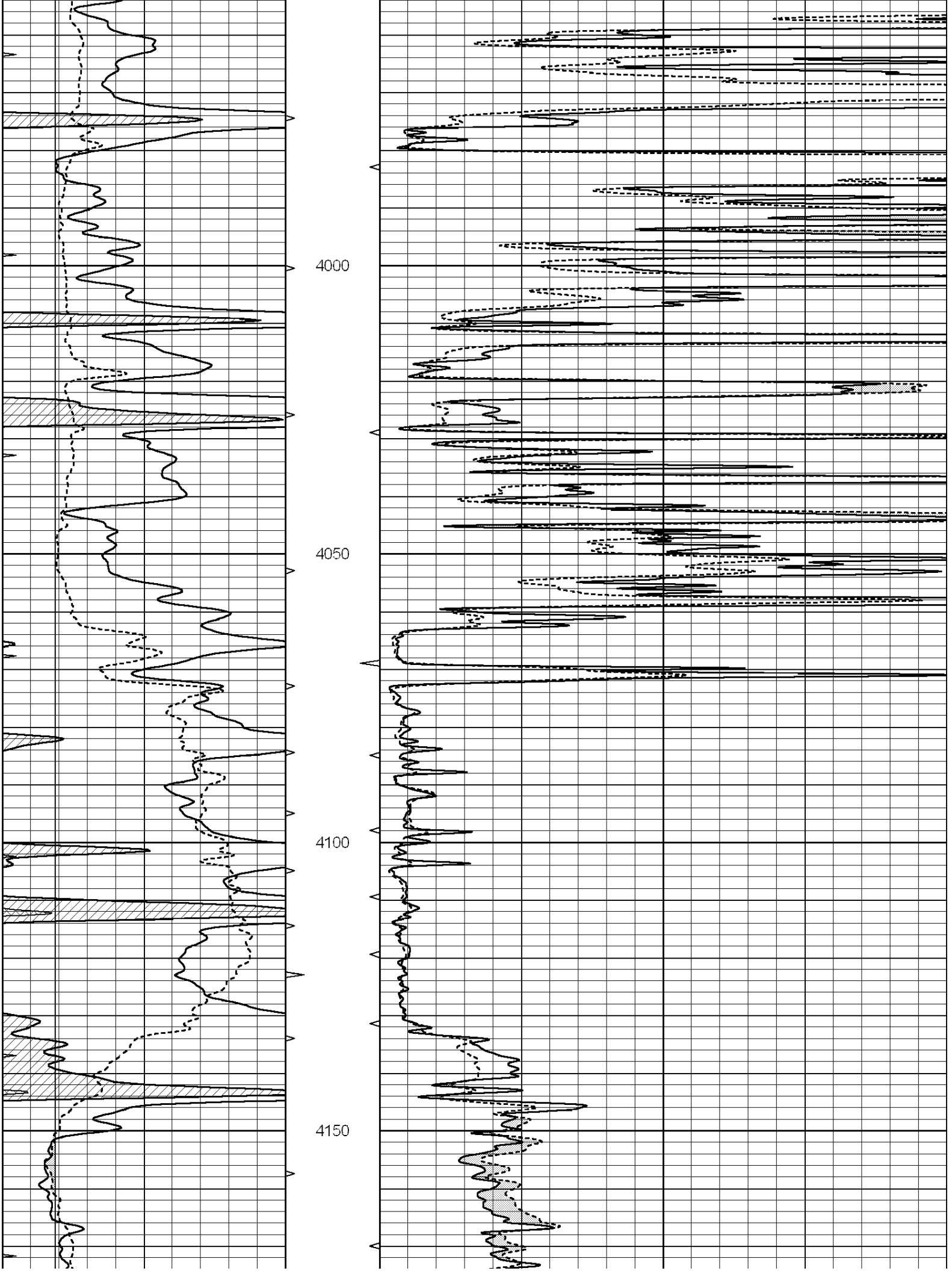
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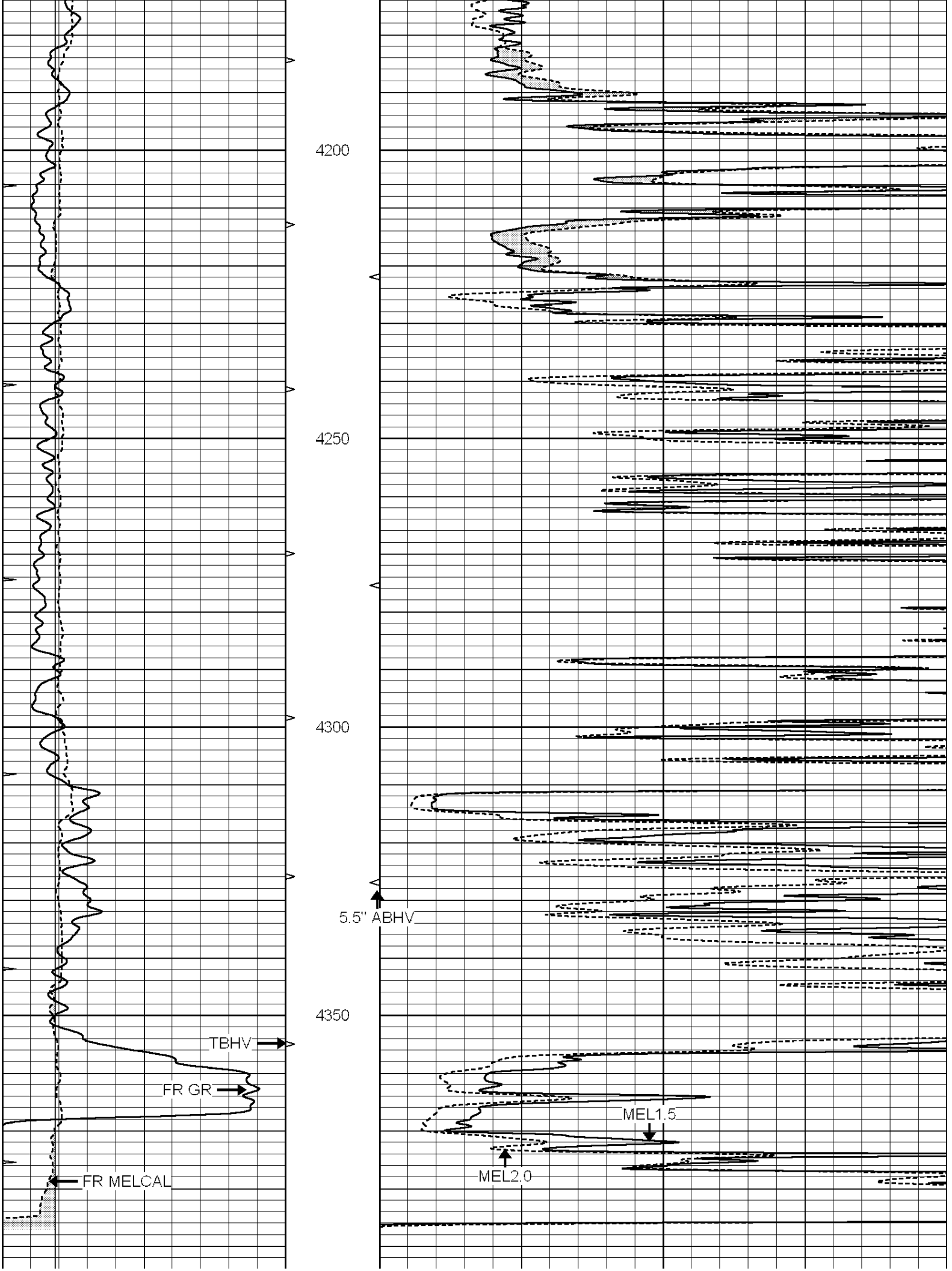
4150


4200
4250
4300
5.5" ABHV
4350
TBHV
FR GR
FR MELCAL
MEL1.5
MEL2.0

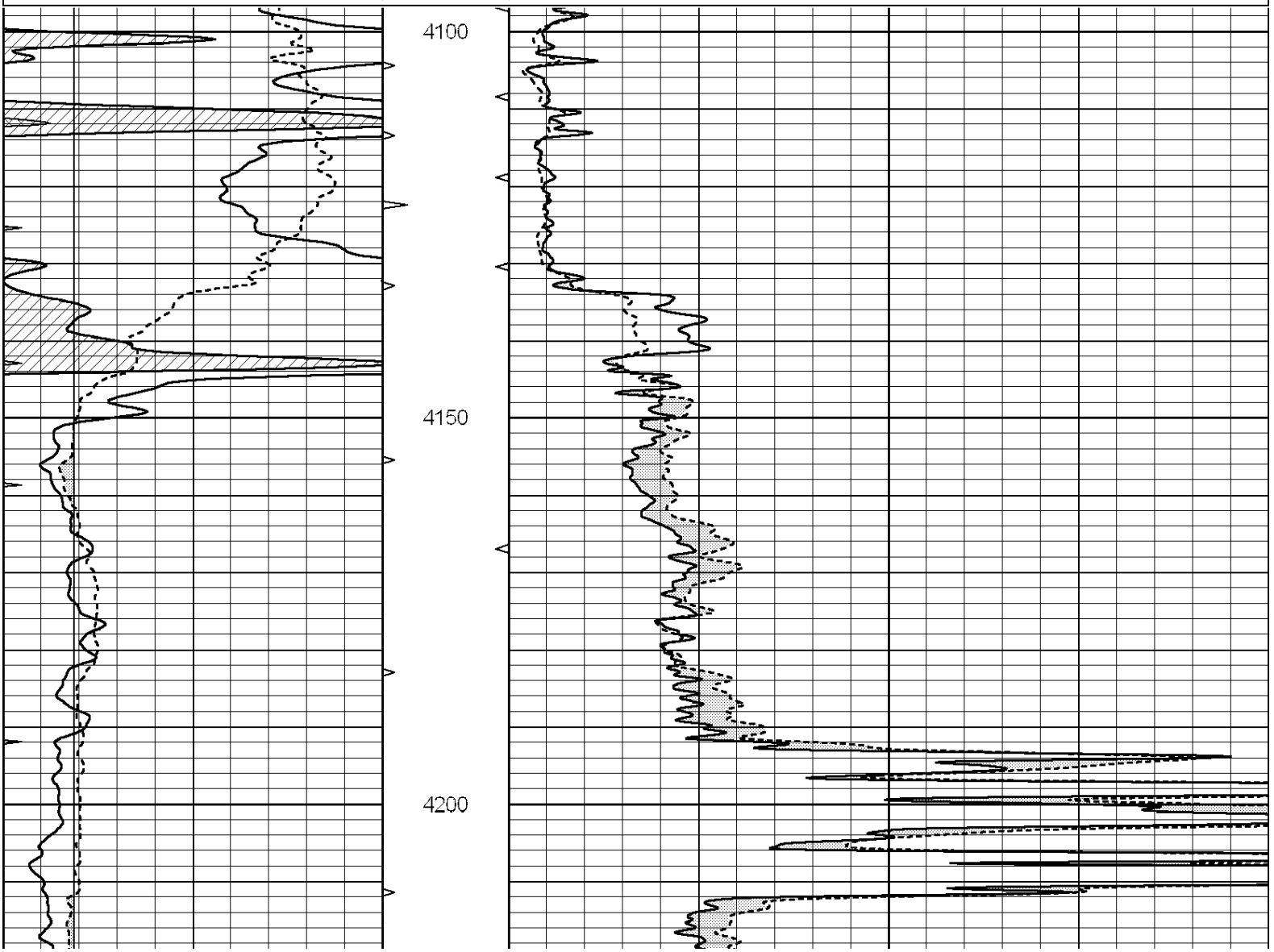
			4400	LTD 4401	
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m) 40
6	CALIPER (in)	16	10 (ft3) 0	0	MEL2.0 (Ohm-m) 40
0	MINMK	20	TBHV		
			0 (ft3) 10		

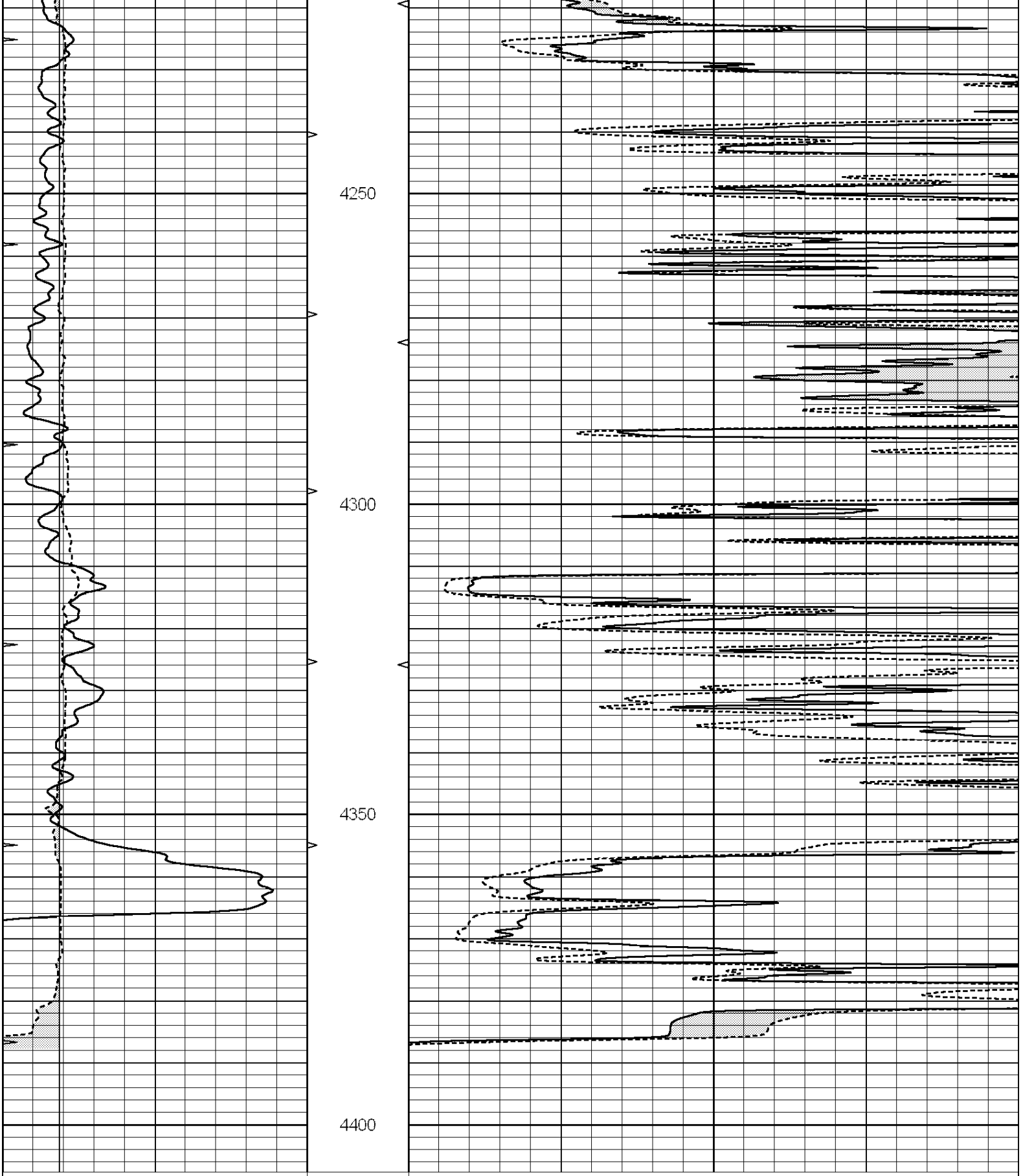
NABORS
COMPLETION & PRODUCTION SERVICES CO.

REPEAT SECTION

Database File: 010918pe.db
Dataset Pathname: pass5.2
Presentation Format: micro
Dataset Creation: Wed Jun 05 20:44:16 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	0	MEL2.0 (Ohm-m) 40
0	MINMK	20	TBHV		
			0 (ft3) 10		





Calibration Report

Database File:	010918pe.db
Dataset Pathname:	pass6.3
Dataset Creation:	Wed Jun 05 20:59:23 2013

MICRO Calibration Report

Serial Number:	MICRO5	
Tool Model:	PROBE	
Performed:	Tue May 28 13:04:49 2013	
Caliper Calibration:	Gain=3.605	Offset=-6.802
	Low Cal	High Cal
References	8.000	15.000
Readings	4.106	6.048
1.5" Calibration:	Gain=40.000	Offset=-1.400
	Low Cal	High Cal
References	0.000	20.000
Readings	0.015	1.005
2" Calibration:	Gain=48.000	Offset=-1.200
	Low Cal	High Cal
References	0.000	20.000
Readings	0.009	0.910

Gamma Ray Calibration Report

Serial Number:	GR3	
Tool Model:	OPEN	
Performed:	Wed Jun 05 19:55:30 2013	
Calibrator Value:	200.0	GAPI
Background Reading:	3.0	cps
Calibrator Reading:	186.0	cps
Sensitivity:	2.0000	GAPI/cps