NABORS COMPLETION & PRODUCTION SERVICES CO.

MICRO LOG

Company	PICKRELL DRILLING CO., INC.
Well	#3 PETTY "E"
Field	LOCKER NW
County	TREGO
State	KANSAS

Company PICKRELL DRILLING CO., INC.

Well #3 PETTY "E"

Field LOCKER NW

County TREGO State KANSAS

Location: API # : 15-195-22854-0000

330' FNL & 1050' FWL

SEC 30 TWP 13S RGE 21W

Permanent Datum GROUND LEVEL Elevation 2337

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

Drilling Measured From KELLY BUSHING

Other Services: CDL/CNL, DIL

Elevation: K.B. 2347, D.F. 2345, G.L. 2337

Date	9/13/13			
Run Number	TWO			
Depth Driller	4165			
Depth Logger	4165			
Bottom Logged Interval	4163			
Top Log Interval	3400			
Casing Driller	8 5/8" @ 222			
Casing Logger	220			
Bit Size	7 7/8"			
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2400 PPM		
Density / Viscosity	9.4/77			
pH / Fluid Loss	10.5/7.2			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	.75 @ 89F			
Rmf @ Meas. Temp	.56 @ 89F			
Rmc @ Meas. Temp	.90 @ 89F			
Source of Rmf / Rmc	MEASUREMENT			
Rm @ BHT	.57 @ 117F			
Time Circulation Stopped	2 HOURS			
Time Logger on Bottom				
Maximum Recorded Temperature	117F			
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, KS. (785) 628-6395

DIRECTIONS:

I 70 & OGALLAH EXIT - 5 S.TO RD. P - 2 E. TO RD. 350 - 1 S. - E. INTO

NABORS COMPLETION & PRODUCTION SERVICES CO.

MAIN SECTION

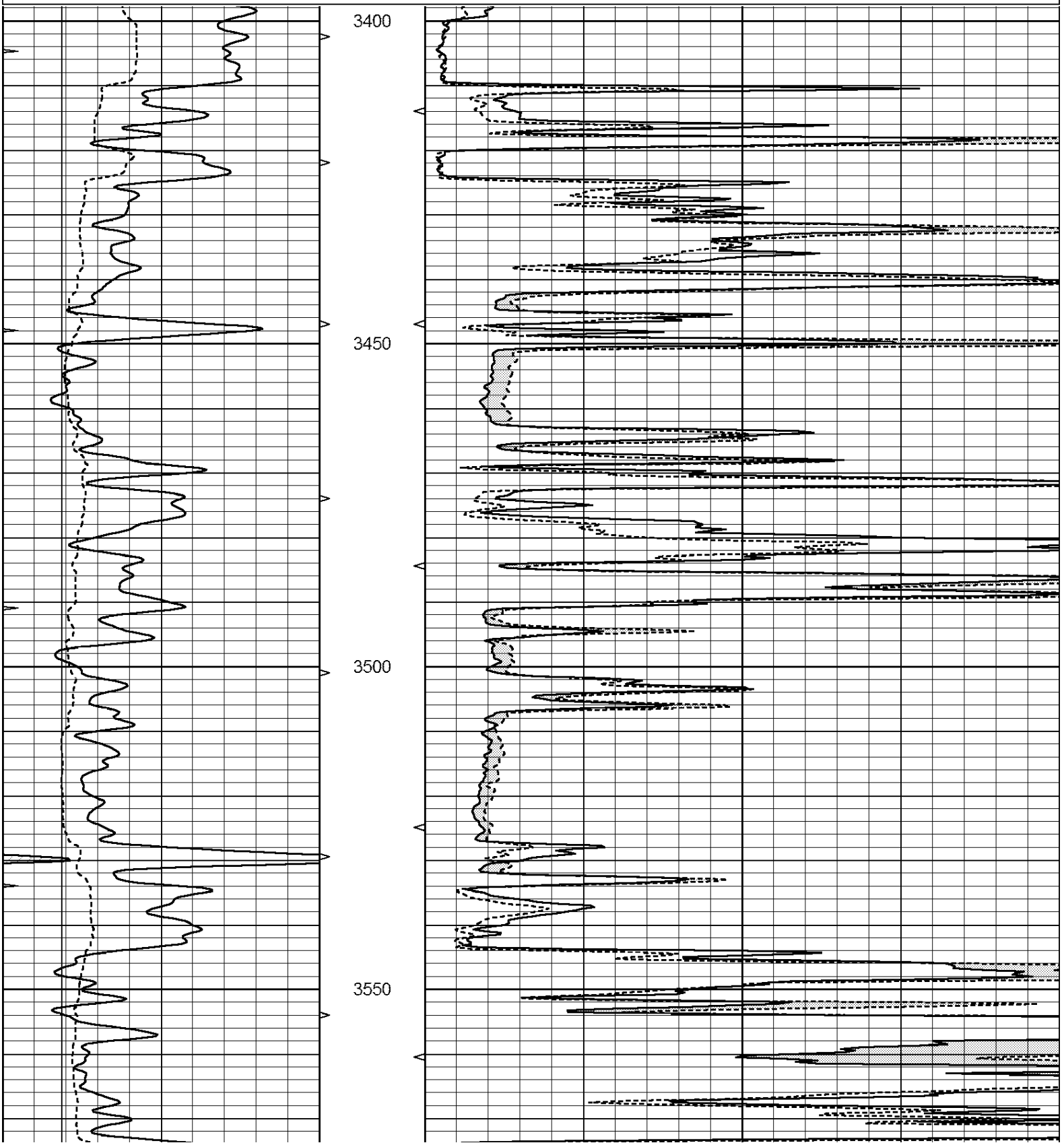
SERVICES CO.

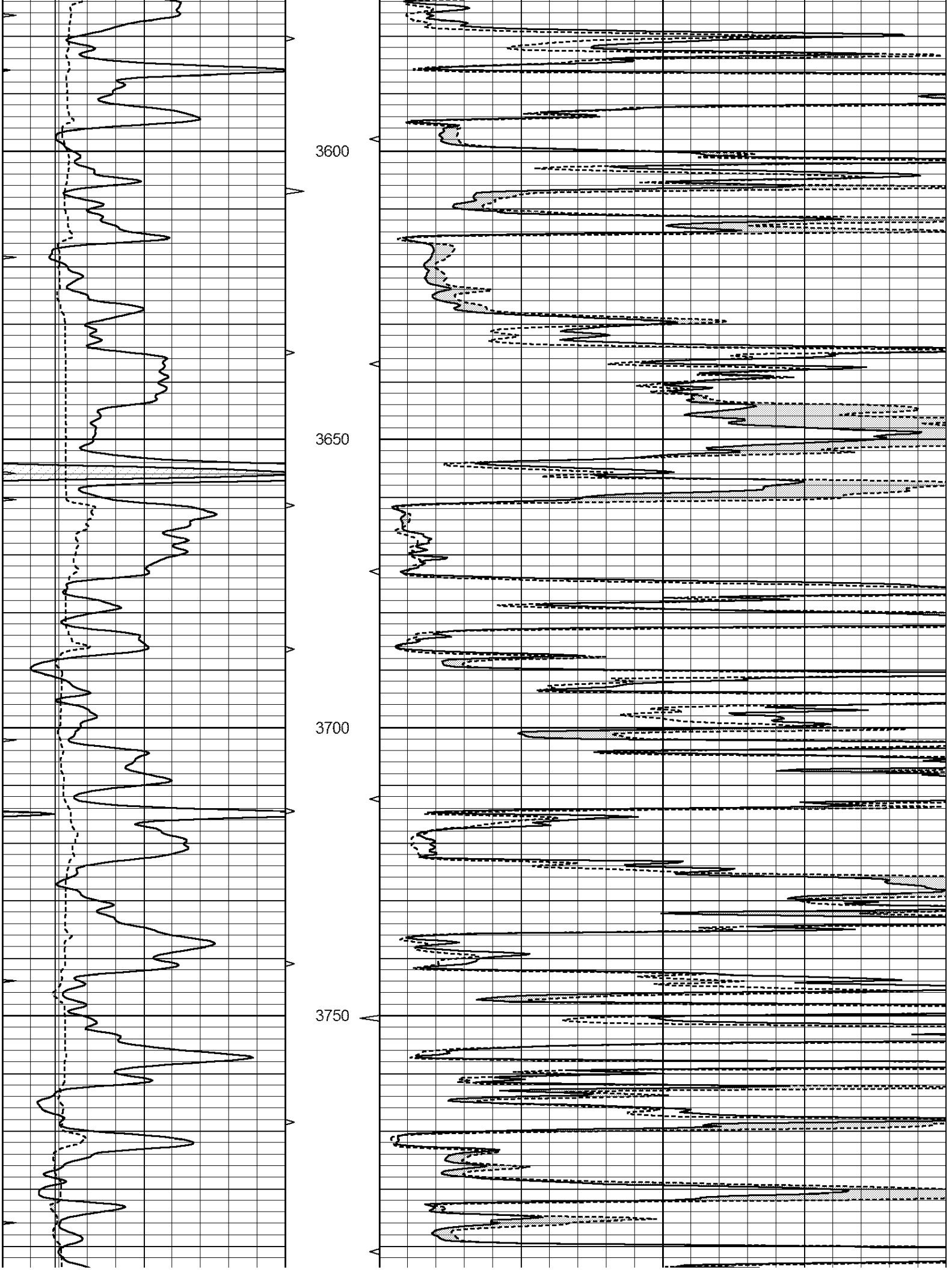
Database File: 011780ddn.db
Dataset Pathname: pass7.1
Presentation Format: _micro
Dataset Creation: Sat Sep 14 01:11:18 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16
0	MINMK	20

ABHV		
10	(ft3)	0
TBHV		
0	(ft3)	10

0	MEL1.5 (Ohm-m)	40
0	MEL2.0 (Ohm-m)	40

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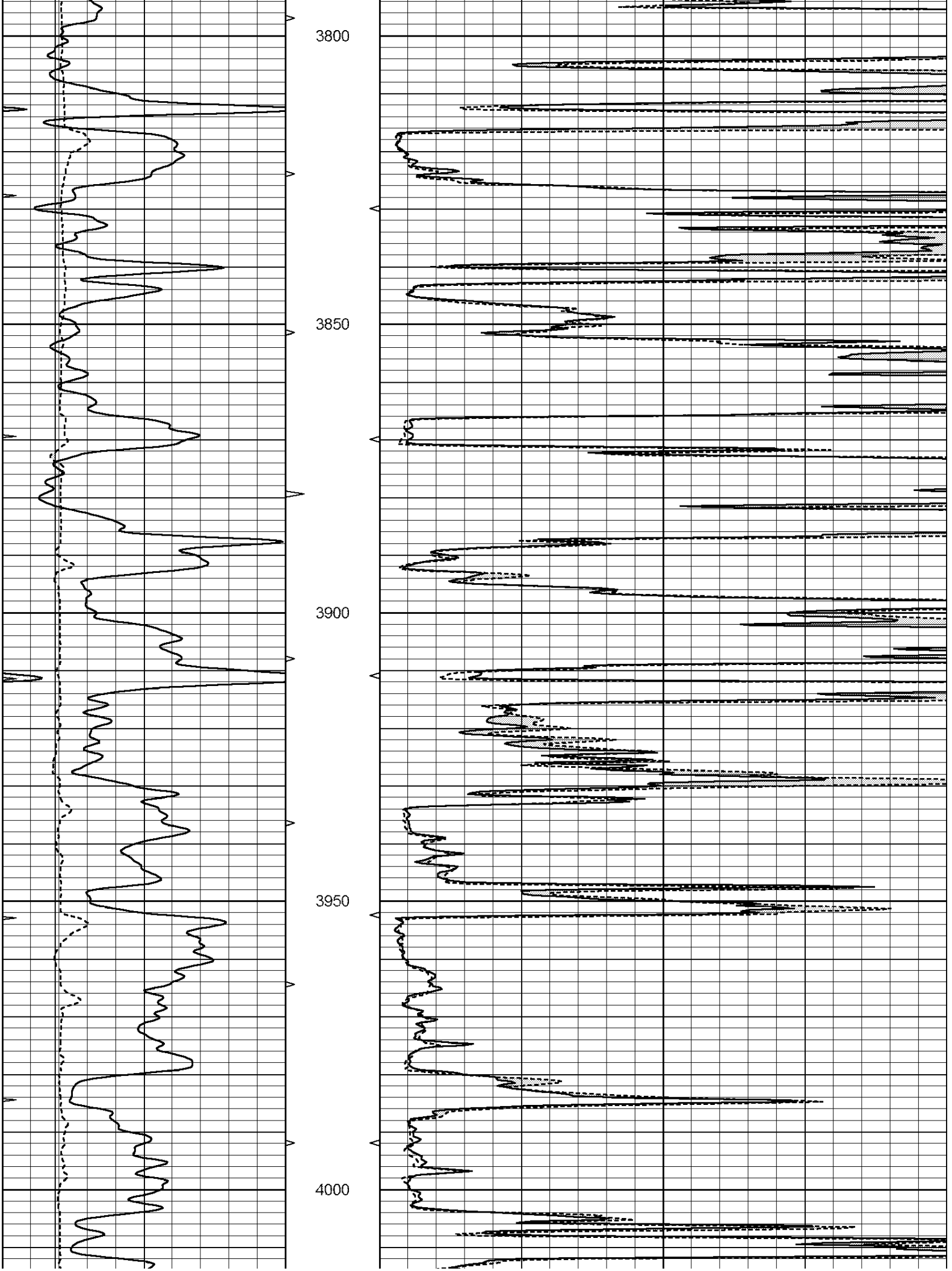
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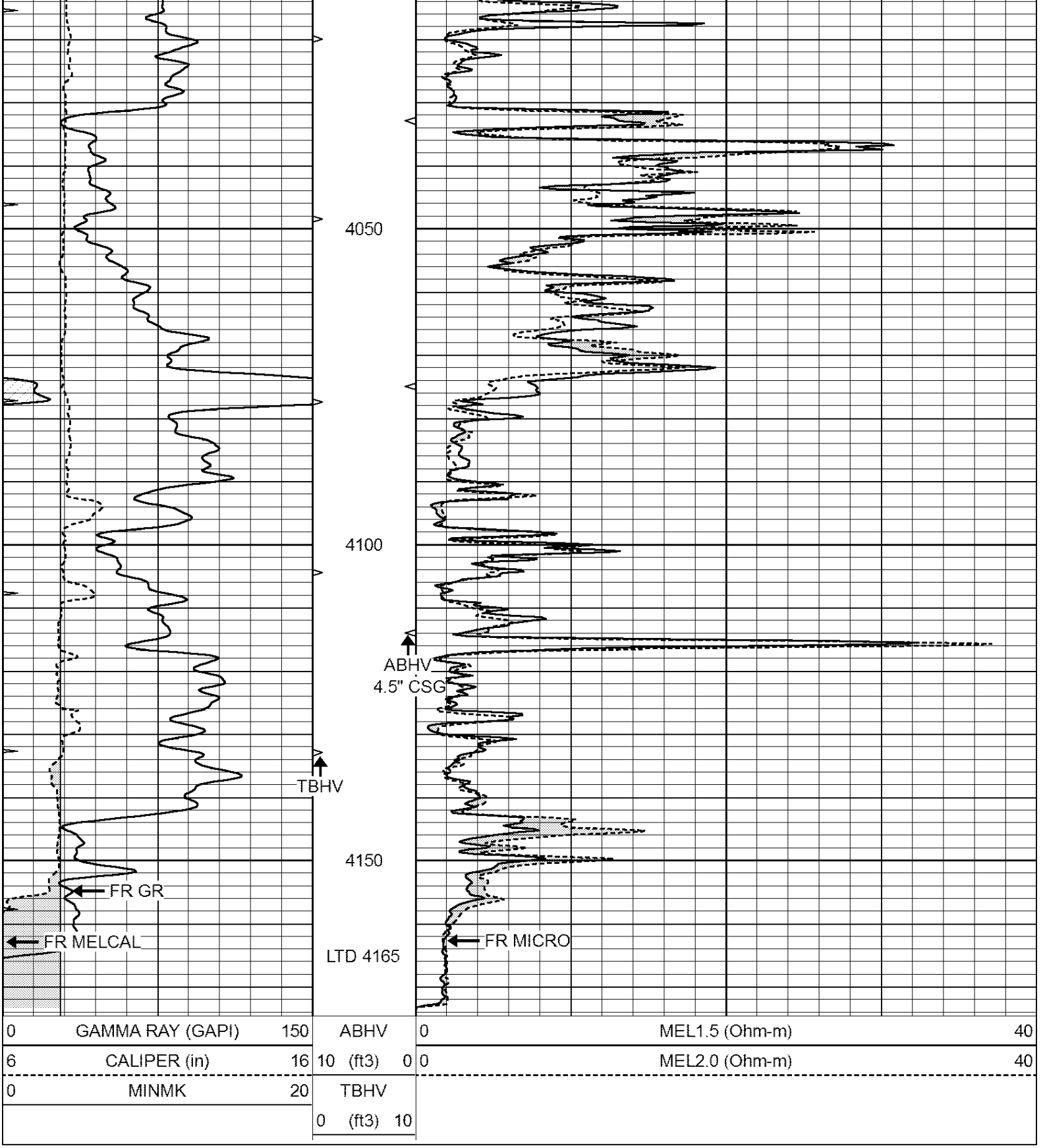


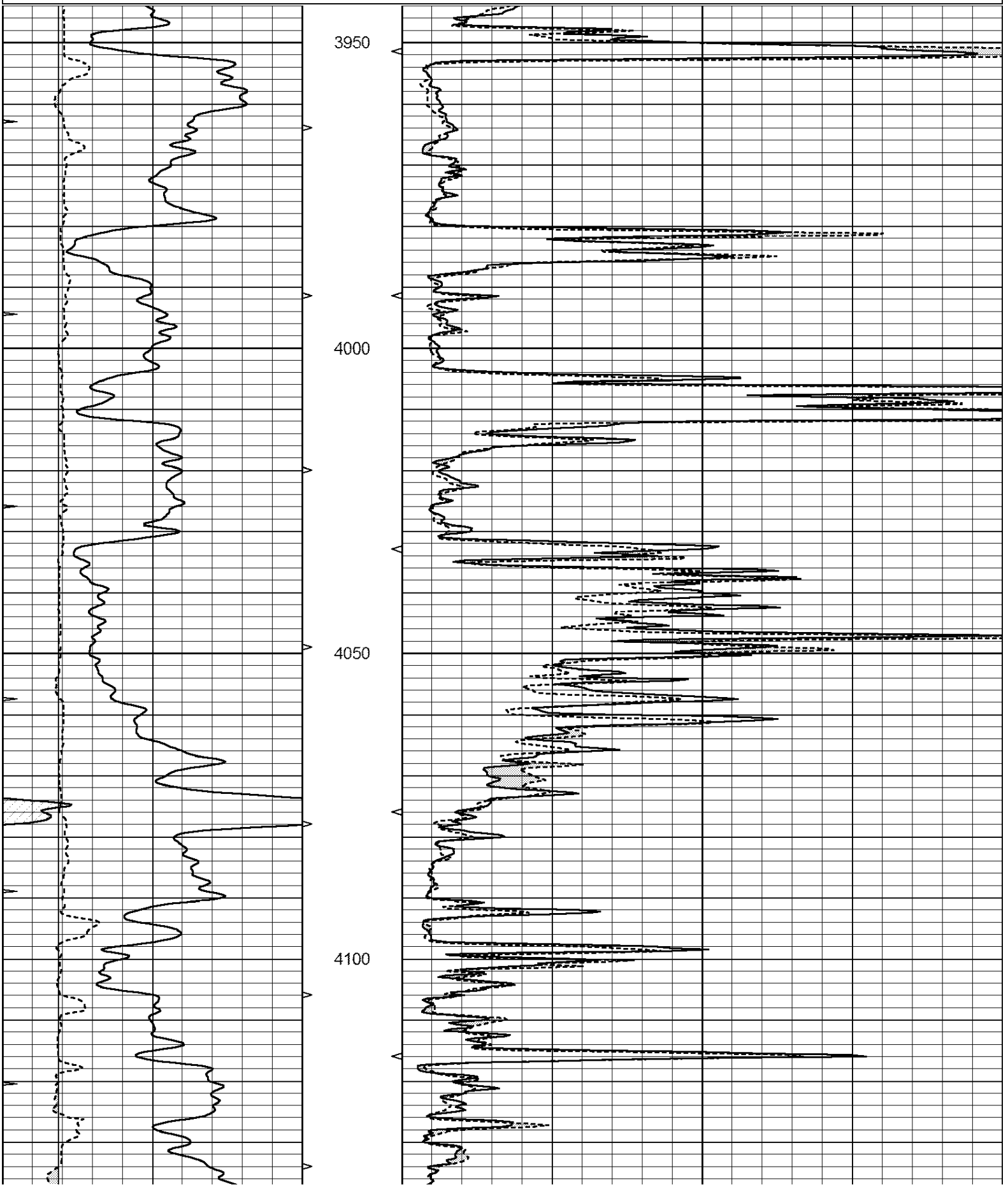
NABORS
COMPLETION & PRODUCTION SERVICES CO.

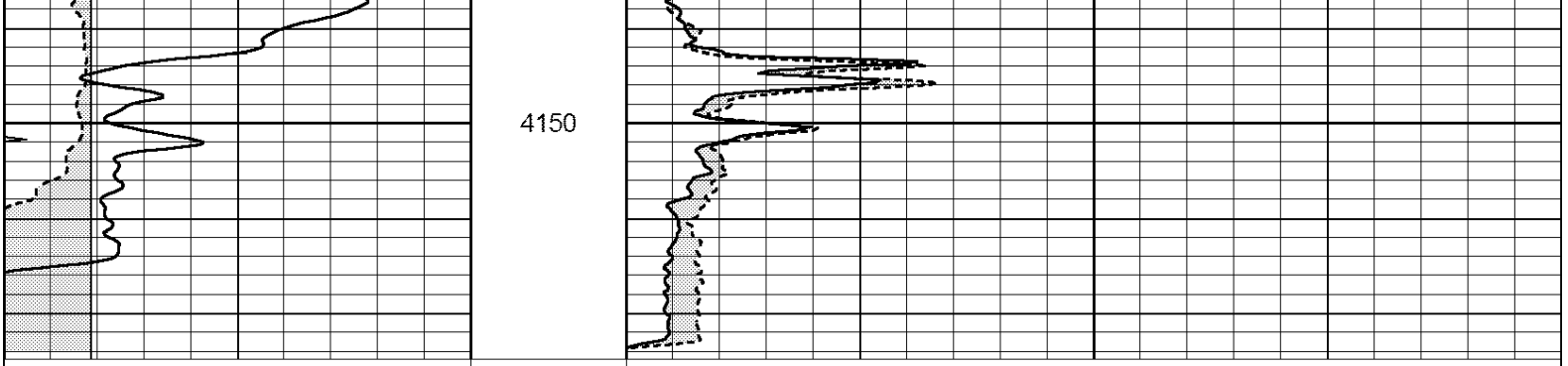
REPEAT SECTION

Database File: 011780ddn.db
Dataset Pathname: pass6.1
Presentation Format: _micro
Dataset Creation: Sat Sep 14 01:04:38 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		





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: 011780ddn.db
Dataset Pathname: pass6.1
Dataset Creation: Sat Sep 14 01:04:38 2013 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number:	MICRO3	
Tool Model:	PROBE	
Performed:	Thu Nov 17 03:06:31 2011	
Caliper Calibration:	Gain=3.916	Offset=-9.671
	Low Cal	High Cal
References	8.000	14.000
Readings	4.257	5.789
1.5" Calibration:	Gain=130.000	Offset=0.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	0.228
2" Calibration:	Gain=130.553	Offset=-0.520
	Low Cal	High Cal
References	0.000	20.000
Readings	0.005	0.175

Gamma Ray Calibration Report

Serial Number:	#8	
Tool Model:	OPEN	
Performed:	Tue Jun 18 19:34:11 2013	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	175.0	cps
Sensitivity:	0.8371	GAPI/cps