



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company		LD DRILLING, INC.	
Well		MILLER #3-16	
Field			
County		BARTON	
State		KANSAS	
Location:		API # : 15-009-25796-0000 2310' FSL & 2310' FEL NW - NW - SE	
SEC 16 TWP 19S RGE 12W Permanent Datum Log Measured From Drilling Measured From		GROUND LEVEL Elevation 1867 KELLY BUSHING 5' A.G.L. KELLY BUSHING	
Other Services CDL/CNL DIL		Elevation K.B. 1872 D.F. 1870 G.L. 1867	
Date	7/22/13		
Run Number	TWO		
Depth Driller	3560		
Depth Logger	3561		
Bottom Logged Interval	3559		
Top Log Interval	2800		
Casing Driller	8 5/8" @ 722		
Casing Logger	722		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5000 PPM	
Density / Viscosity	9.4/54		
pH / Fluid Loss	9.5/9.2		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.65 @ 87F		
Rmf @ Meas. Temp	.48 @ 87F		
Rmc @ Meas. Temp	.78 @ 87F		
Source of Rmf / Rmc	MEASURED		
Rin @ BHT	.50 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	112F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JIM MUSGROVE		

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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 COMPLETION & PRODUCTION SVCS. (785) 628-6395

DIRECTIONS:

HOISINGTON, KS. - S. TO BARTON COMMUNITY COLLEGE RD.
E. TO HWY 156 - 2 MILES EAST TO RD. 70 - 1/2 S. - W. INTO



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MAIN SECTION

Database File:

400112ddn.db

Dataset Pathname:

pass6.1

Presentation Format:

_micro

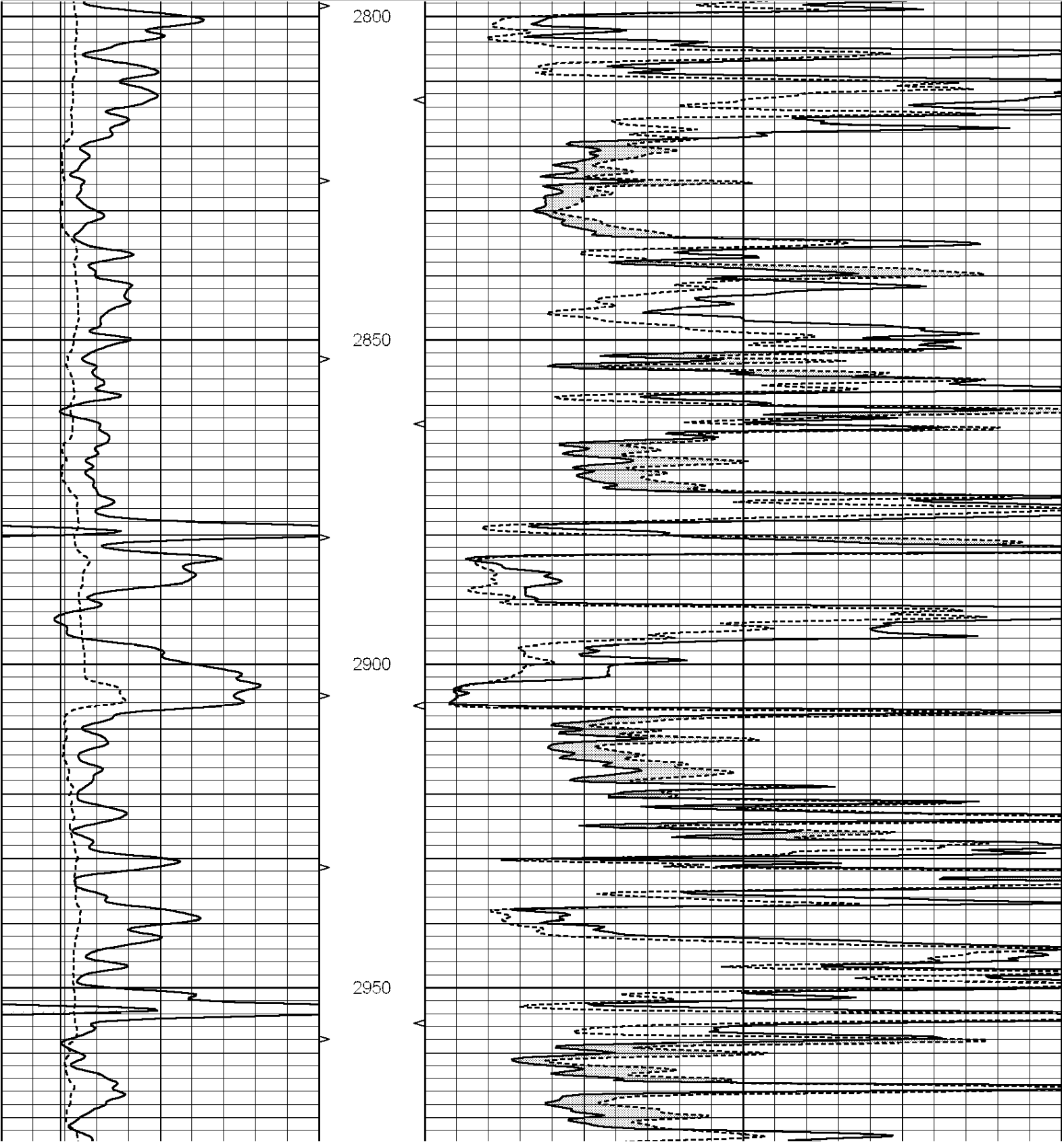
Dataset Creation:

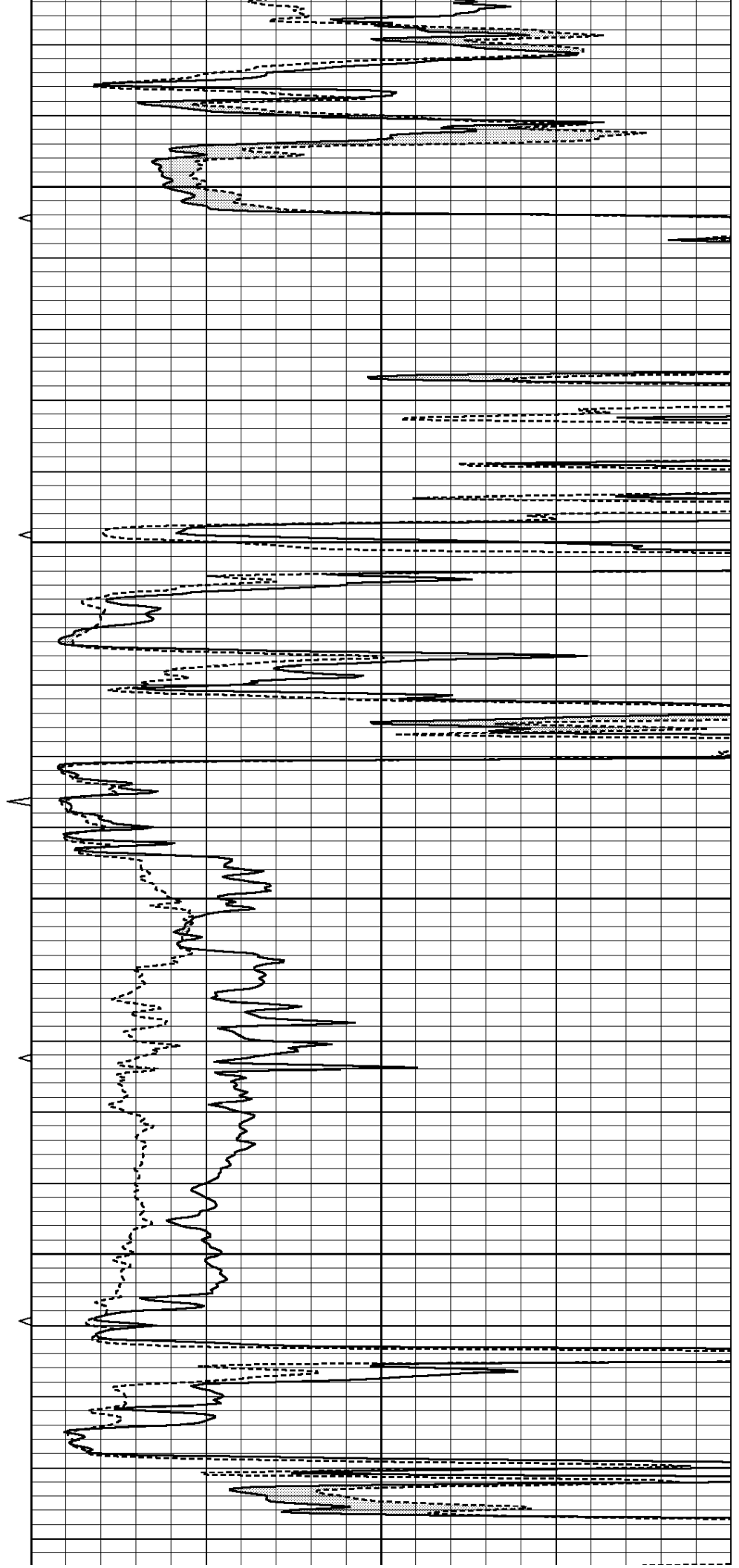
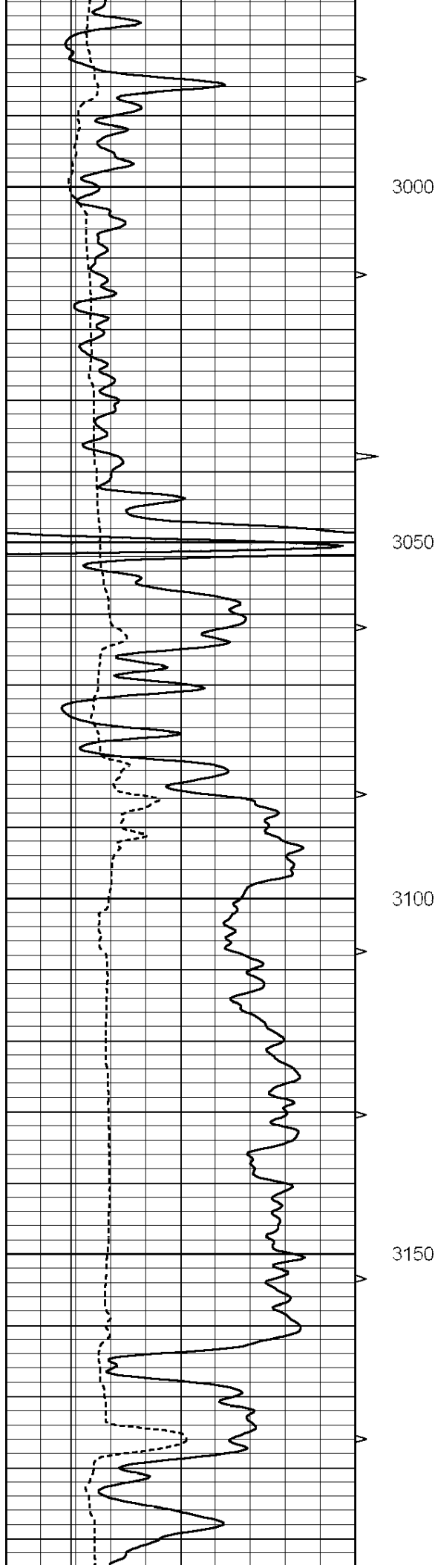
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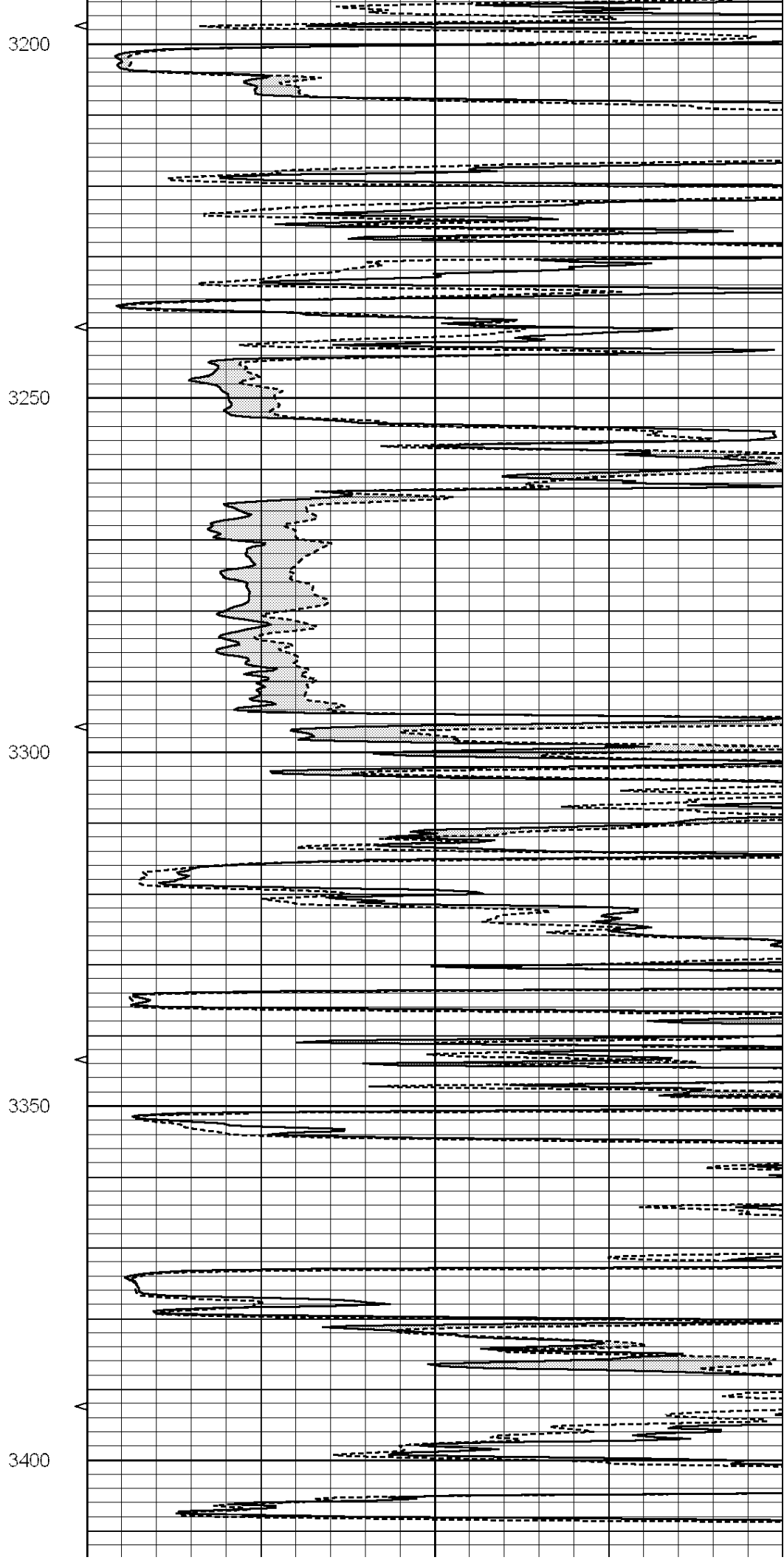
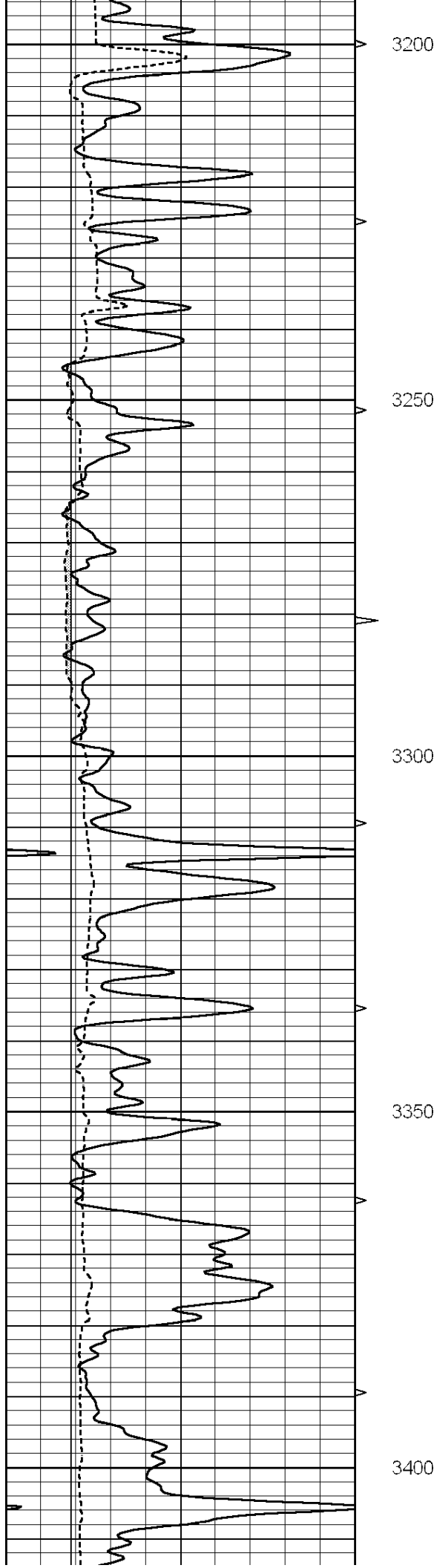
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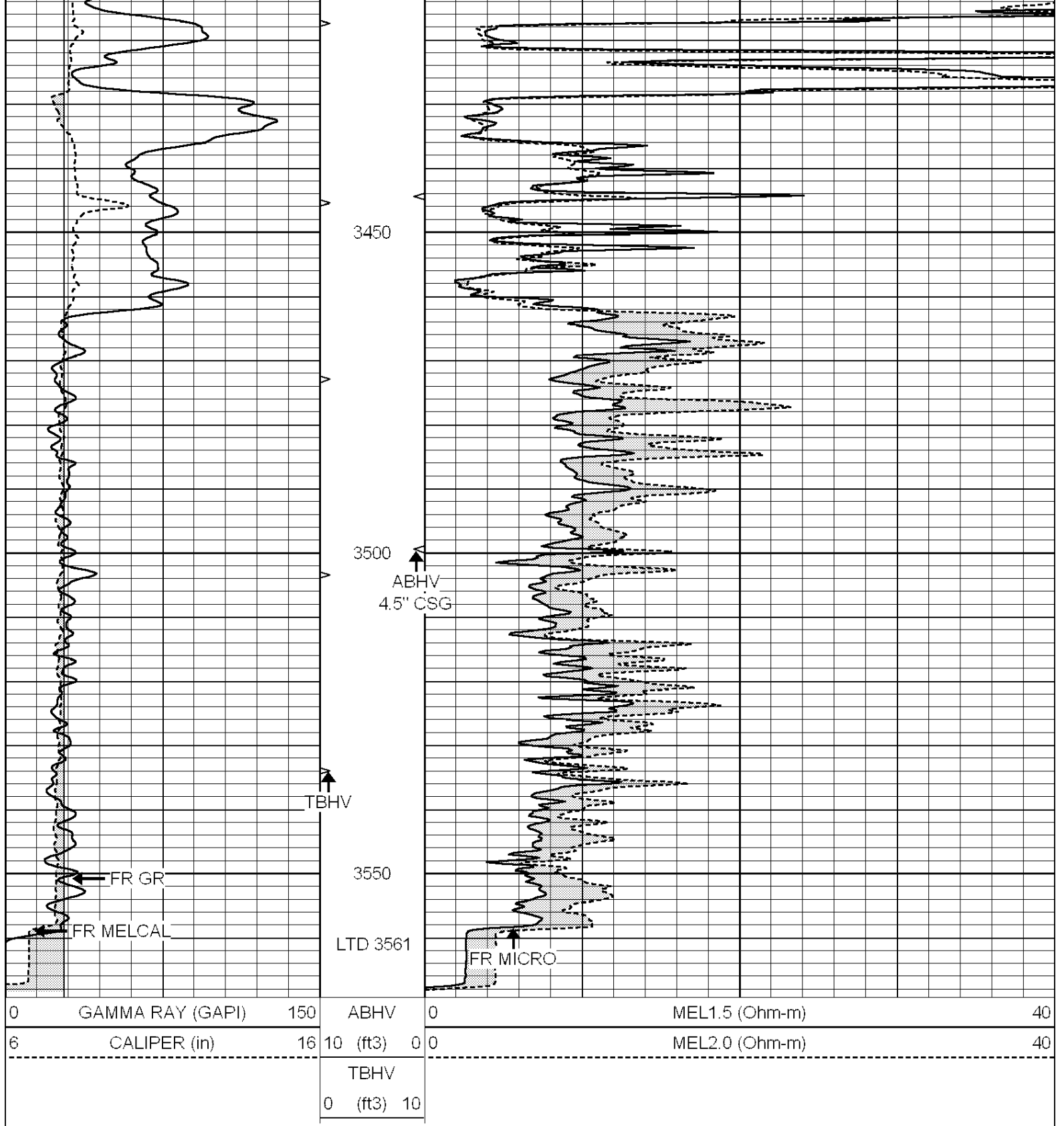
Depth in Feet scaled 1:240

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
			TBHV			
			0 (ft3)	10		







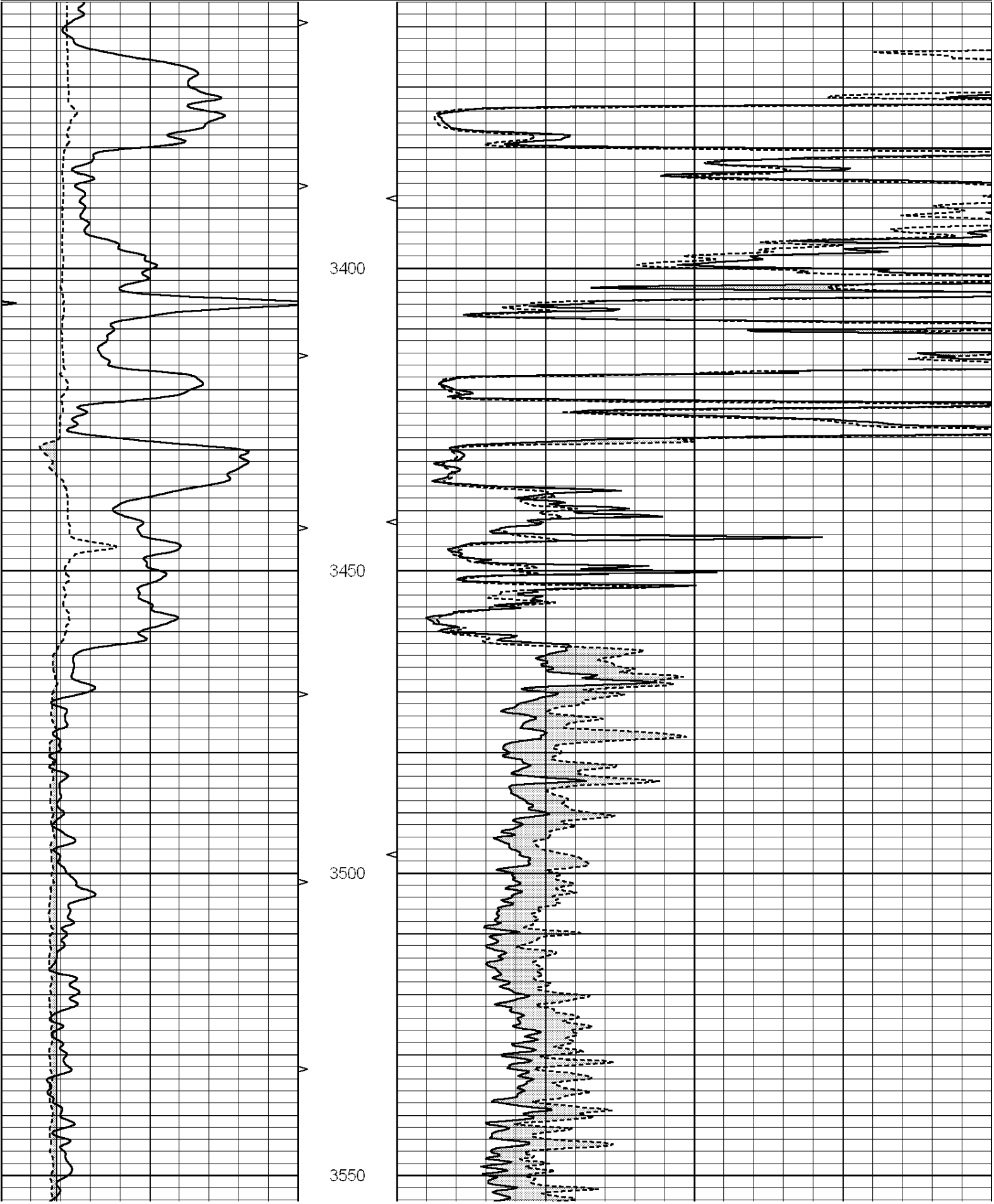


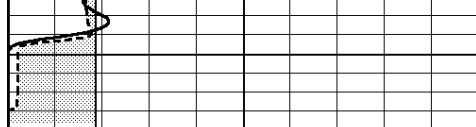
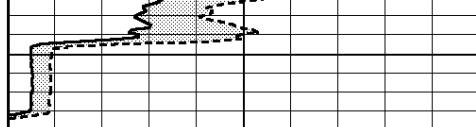
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REPEAT SECTION

Database File: 400112ddn.db
Dataset Pathname: pass5.1
Presentation Format: _micro
Dataset Creation: Mon Jul 22 07:18:27 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
			TBHV			
			0 (ft3)	10		



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

Calibration Report			
Database File:	400112ddn.db		
Dataset Pathname:	pass5.1		
Dataset Creation:	Mon Jul 22 07:18:27 2013 by Calc Open-Cased 090629		
MICRO Calibration Report			
Serial Number:	MICRO6		
Tool Model:	PROBE		
Performed:	Sun Jun 16 11:26:16 2013		
Caliper Calibration:	Gain=5.542	Offset=-1.270	
	Low Cal	High Cal	
References	8.000	14.000	
Readings	1.431	2.513	
1.5" Calibration:	Gain=45.075	Offset=-0.700	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.004	1.196	
2" Calibration:	Gain=47.041	Offset=-0.600	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	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	
Background Reading:	0.0	cps	
Calibrator Reading:	175.0	cps	
Sensitivity:	0.8371	GAPI/cps	