



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company	LD DRILLING, INC.	Company	LD DRILLING, INC.
Well	RINGERING #3-15	Well	RINGERING #3-15
Field	CHASE-SILICA	Field	CHASE-SILICA
County	BARTON	County	BARTON
State	KANSAS	State	KANSAS
Location:	API # : 15-009-25877-00-00 4575' FSL & 330' FEL	Other Services CNL/CDL DIL	
Permanent Datum Log Measured From Drilling Measured From	N2 - SE - NE - NE SEC 15 TWP 20S RGE 11W GROUND LEVEL KELLY BUSHING 5' A.G.L. KELLY BUSHING	Elevation K.B. 1764 D.F. 1762 G.L. 1759	
Date	9/14/13		
Run Number	TW0		
Depth Driller	3420		
Depth Logger	3421		
Bottom Logged Interval	3419		
Top Log Interval	2600		
Casing Driller	8 5/8" @ 343		
Casing Logger	344		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 10,000 PPM	
Density / Viscosity	9.0/49		
pH / Fluid Loss	11.0/10.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.30 @ 77F		
Rmf @ Meas. Temp	.23 @ 77F		
Rmc @ Meas. Temp	.36 @ 77F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.20 @ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	111F		
Equipment Number	680		
Location	HAYS, KS.		
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.

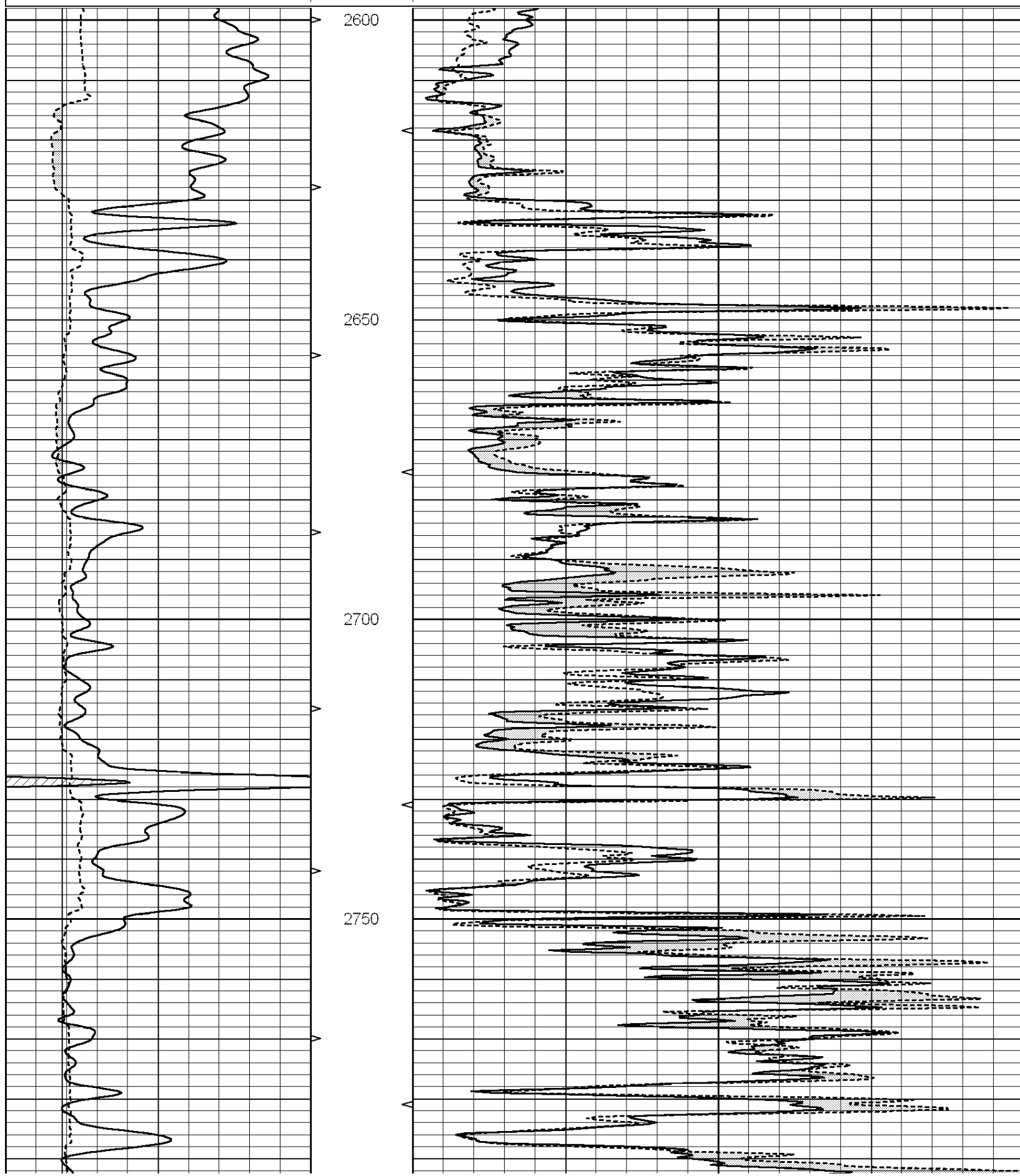
Comments

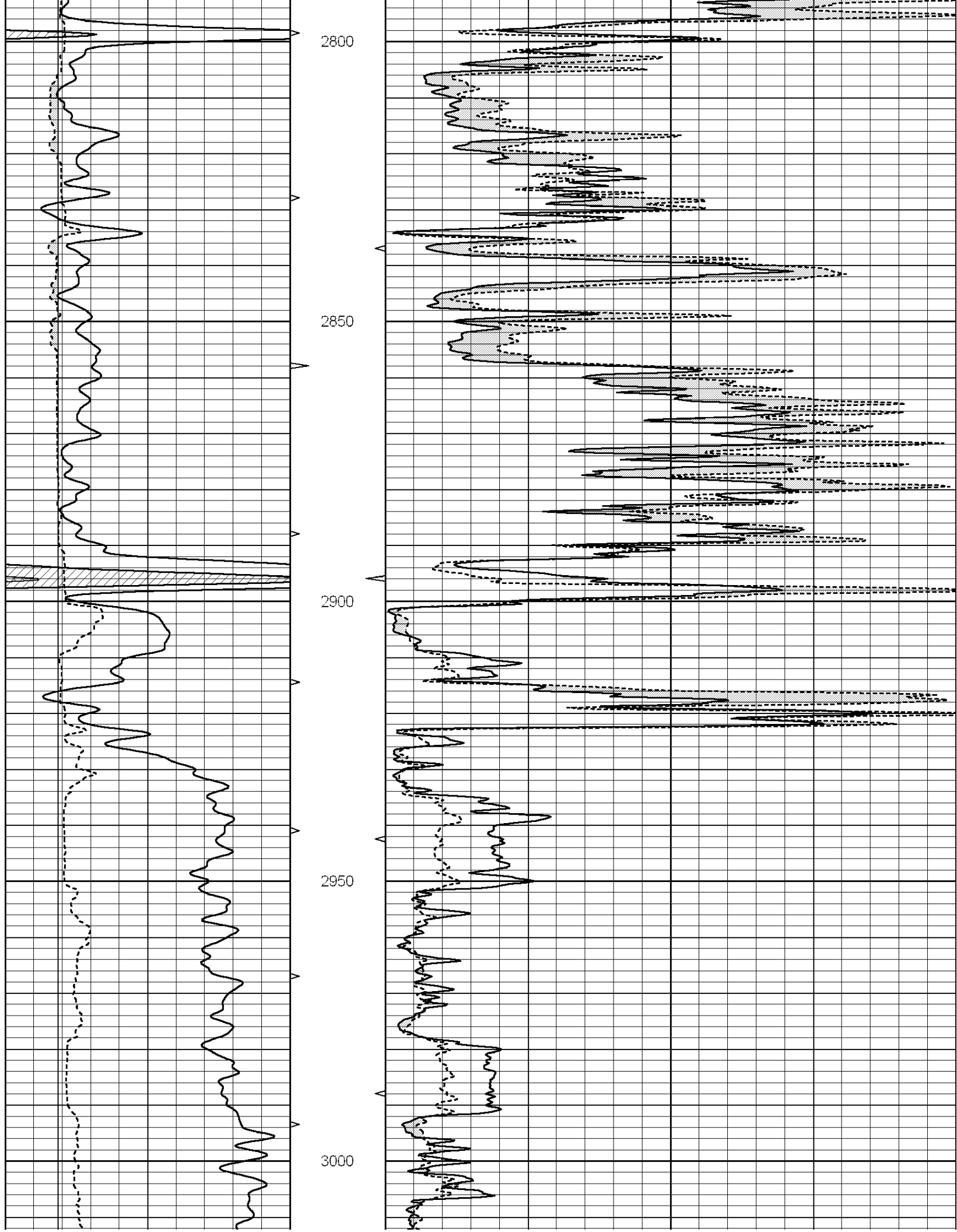
THANK YOU FOR USING NABORS COMPLETION & PRODUCTION SVCS. (785) 628-6395

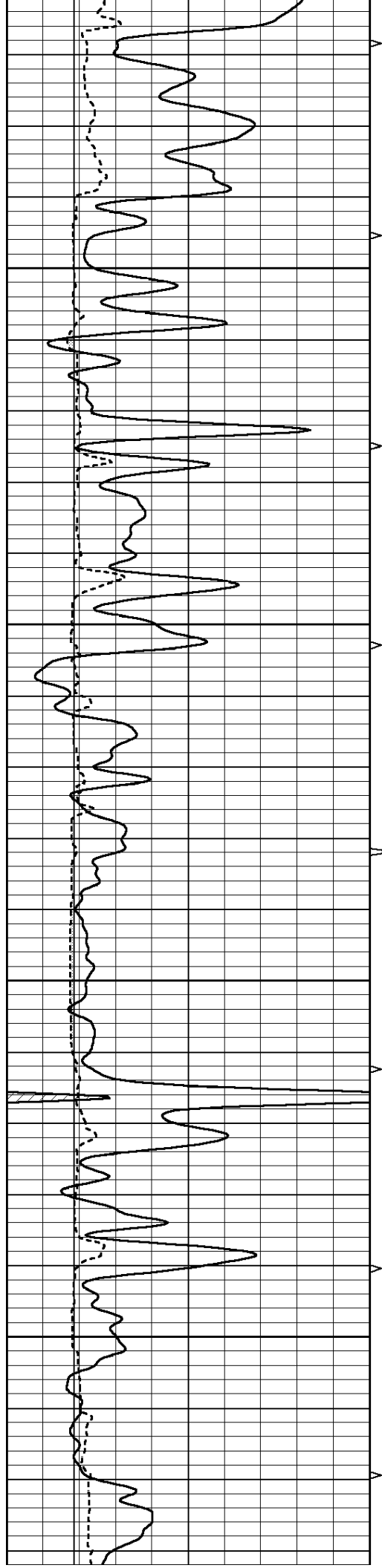
DIRECTIONS:

ELLINWOOD, KS. - SOUTH ON SE 105 AVE AROUND THE THE CURVE - SOUTH ON 100 SE AVE 1 MILE - 3 MILES EAST ON SE 30 RD. - SOUTH 1/2 MILE - EAST 1 MILE ON SE 35 RD. - NORTH 1/2 MILE ON SE 140 AVE - WEST INTO

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		





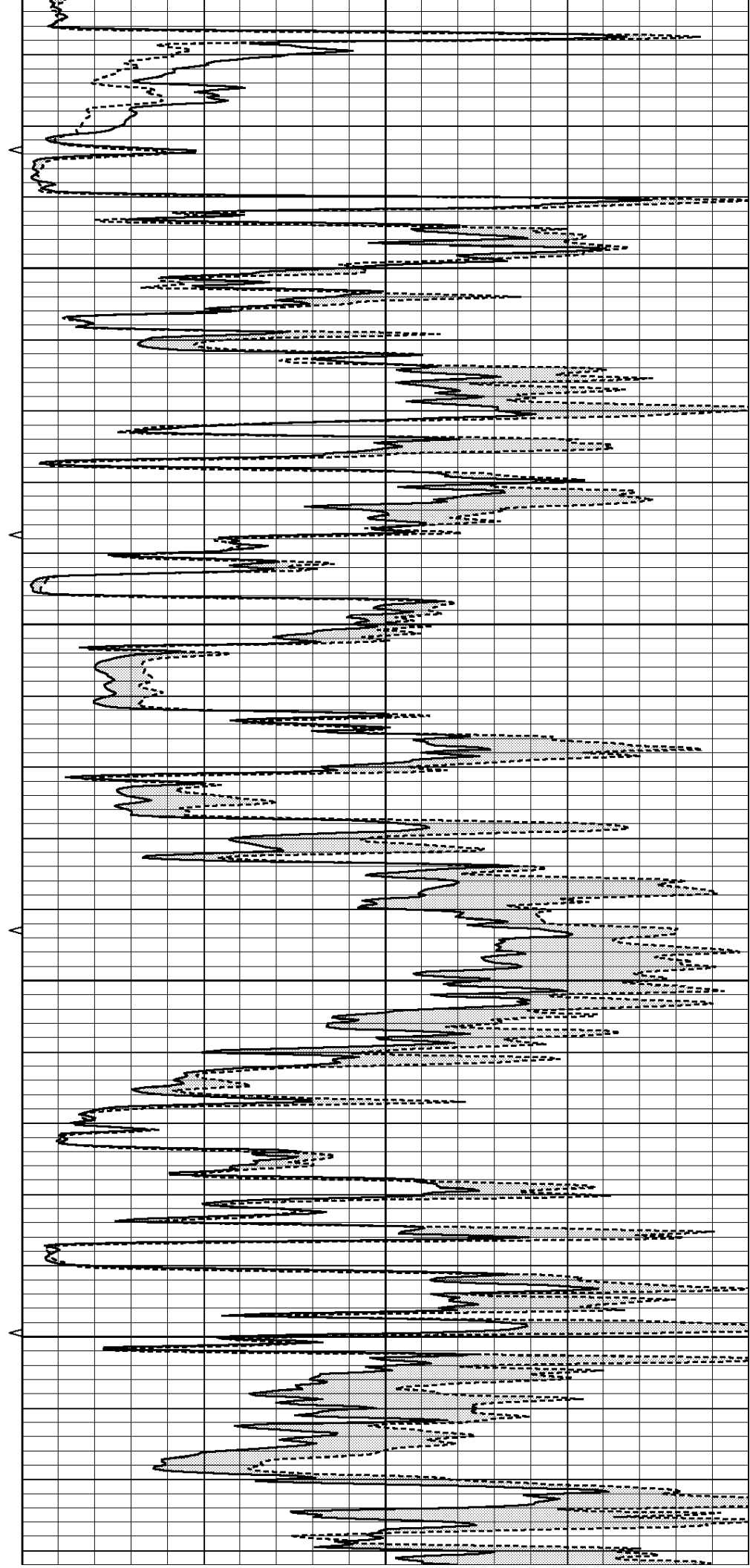


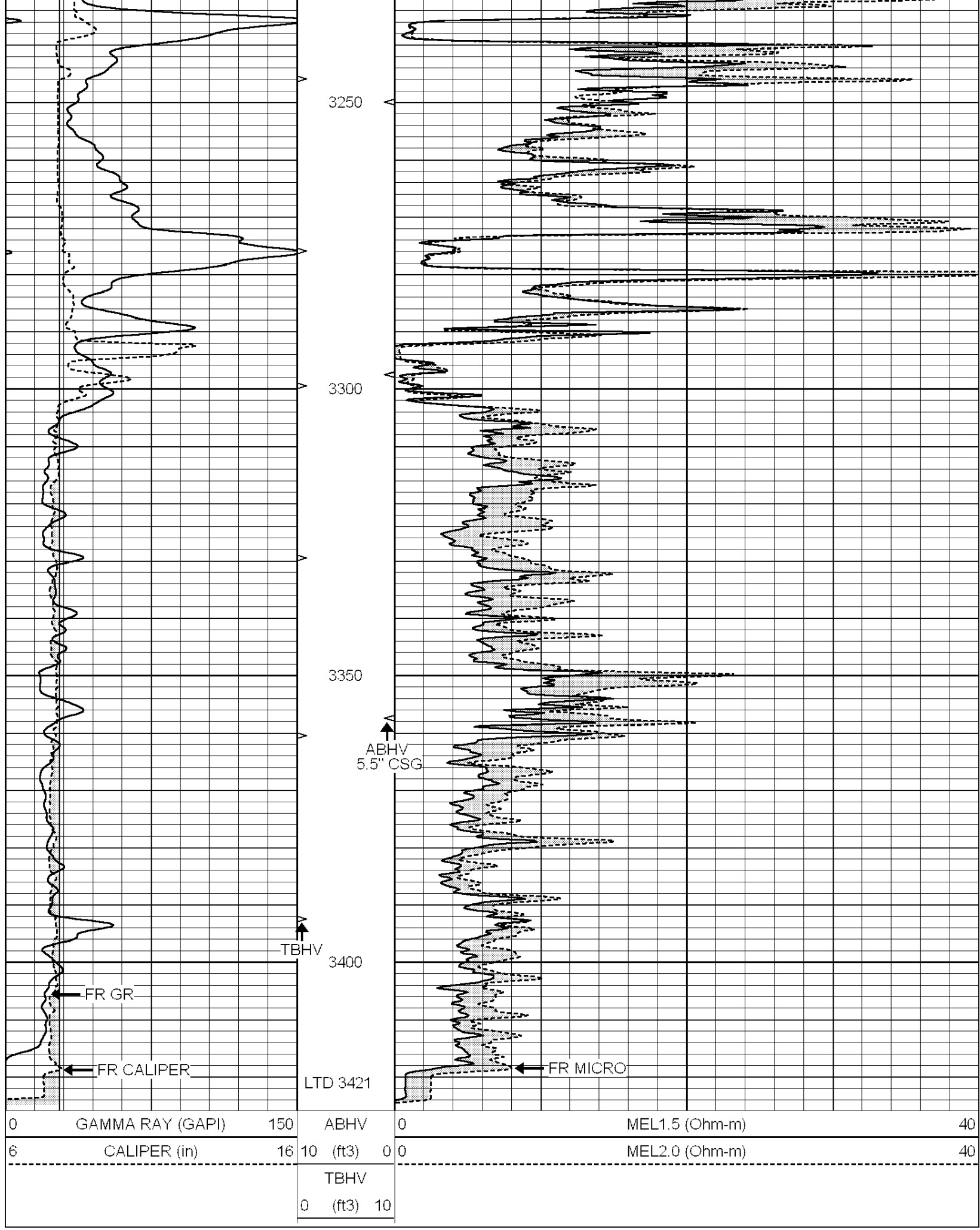
3050

3100

3150

3200

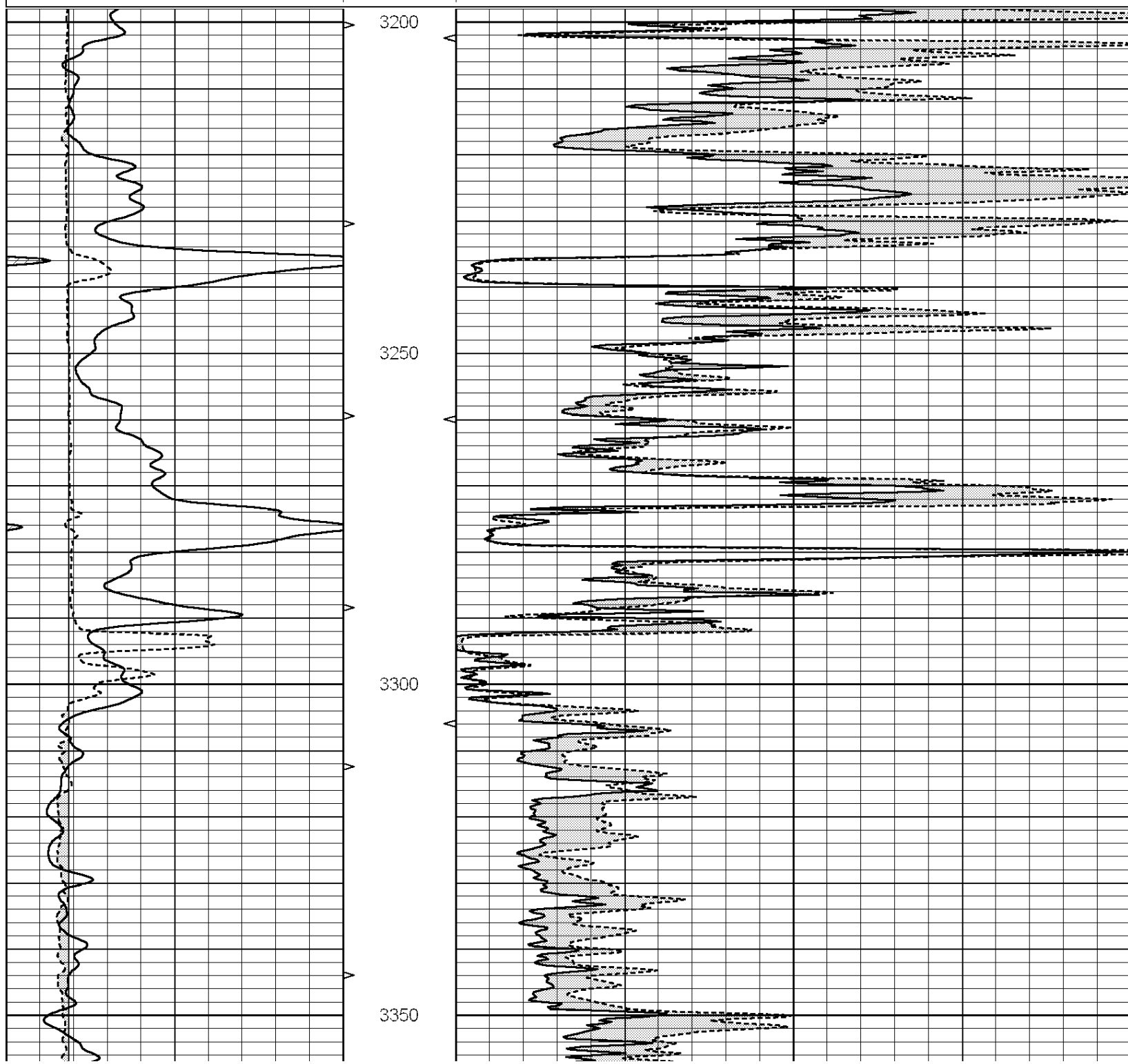


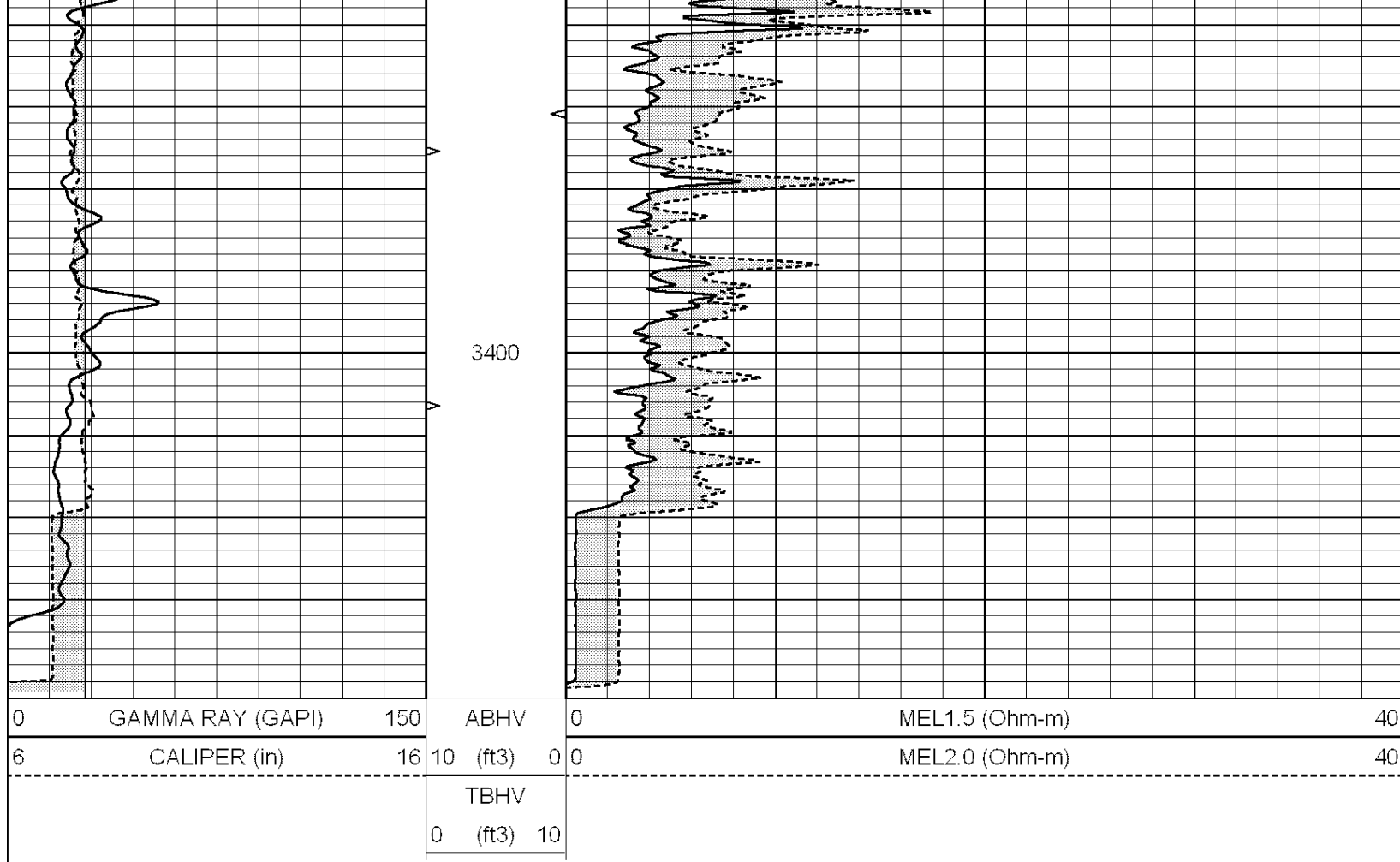


REPEAT SECTION

Database File: 011719ddn.db
 Dataset Pathname: pass5.1
 Presentation Format: _micro
 Dataset Creation: Sat Sep 14 11:33:13 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
			TBHV			
			0 (ft3) 10			





Calibration Report

Database File: 011719ddn.db
Dataset Pathname: pass6.1
Dataset Creation: Sat Sep 14 12:03:24 2013 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO4
Tool Model: PROBE
Performed: Sat Sep 14 11:06:19 2013

Caliper Calibration: Gain=1.675 Offset=-1.800

	Low Cal	High Cal
References	8.600	14.000
Readings	5.584	7.602

1.5" Calibration: Gain=25.000 Offset=-0.800

	Low Cal	High Cal
References	0.000	20.000
Readings	0.009	1.541

2" Calibration: Gain=31.000 Offset=-0.800

	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	1.198

Gamma Ray Calibration Report

Serial Number: GR5
Tool Model: OPEN
Performed: Mon Jul 01 05:22:08 2013

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.9000	GAPI/cps