



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company		MULL DRILLING COMPANY	
Well		HADDON #2-35	
Field		SHAEFFER-ROTHGARN	
County		BARTON	
State		KANSAS	
Location:		APL # : 15-009-25886-0000	
Permanent Datum		GROUND LEVEL Elevation 1868	
Log Measured From		KELLY BUSHING 8' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 35 TWP 20S RGE 13W		Other Services CDL/CNL PE/DIL	
Date		9/30/13	
Run Number		TWO	
Depth Driller		3600	
Depth Logger		3601	
Bottom Logged Interval		3599	
Top Log Interval		3000	
Casing Driller		8 5/8" @ 280'	
Casing Logger		280'	
Bit Size		7 7/8"	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.2 / 46	
pH / Fluid Loss		8.5 / 10.0	
Source of Sample		FLOWLINE	
Rm @ Meas. Temp		0.45 @ 93F	
Rmt @ Meas. Temp		0.34 @ 93F	
Rmc @ Meas. Temp		0.54 @ 93F	
Source of Rmt / Rmc		MEASUREMENT	
Rm @ BHT		0.37 @ 112F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom		112F	
Maximum Recorded Temperature		4010	
Equipment Number		HAYS, KANSAS	
Location		JEFF GRONEWEG	
Recorded By		CHUCK SCHMALTZ	
Witnessed By			

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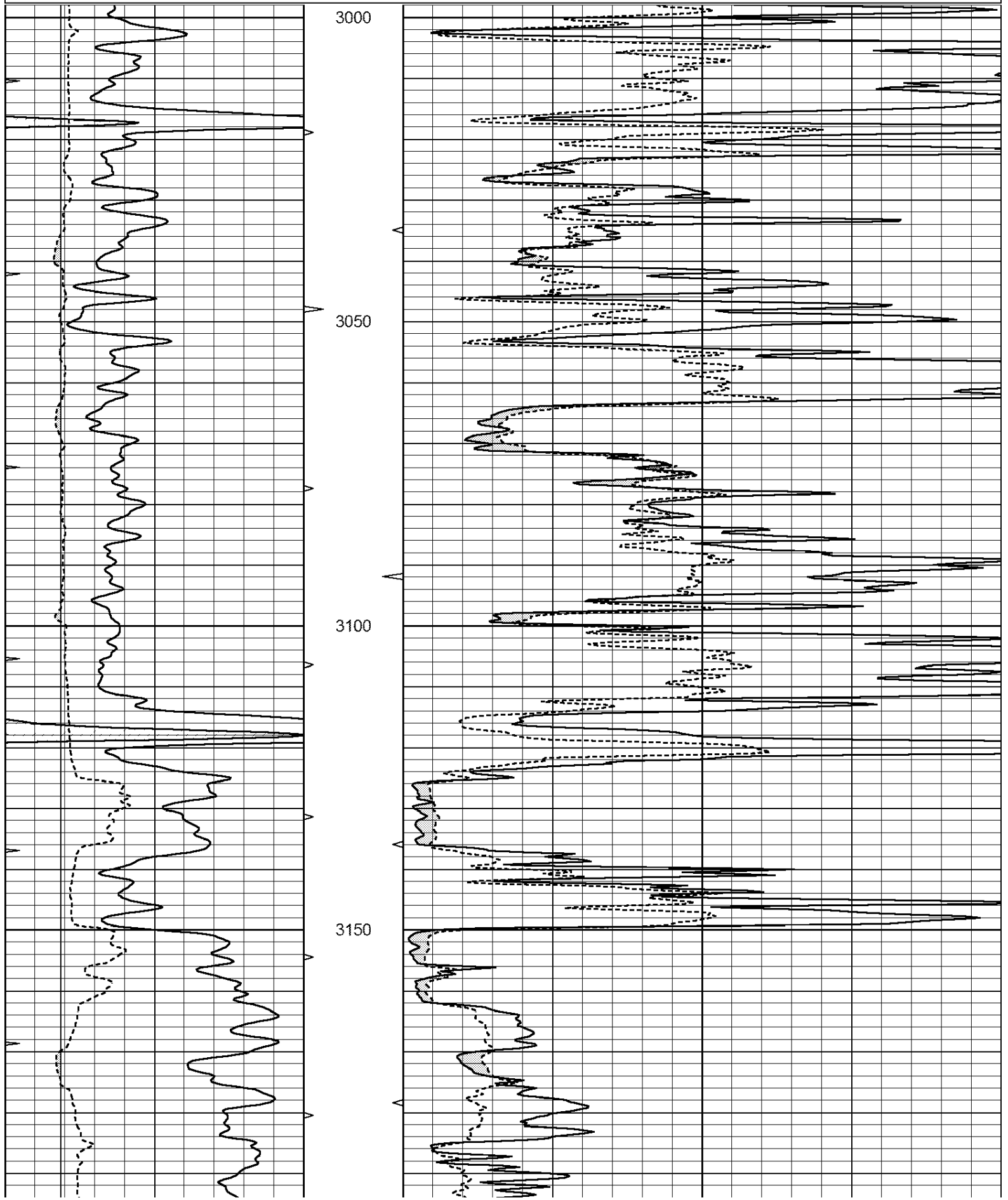
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

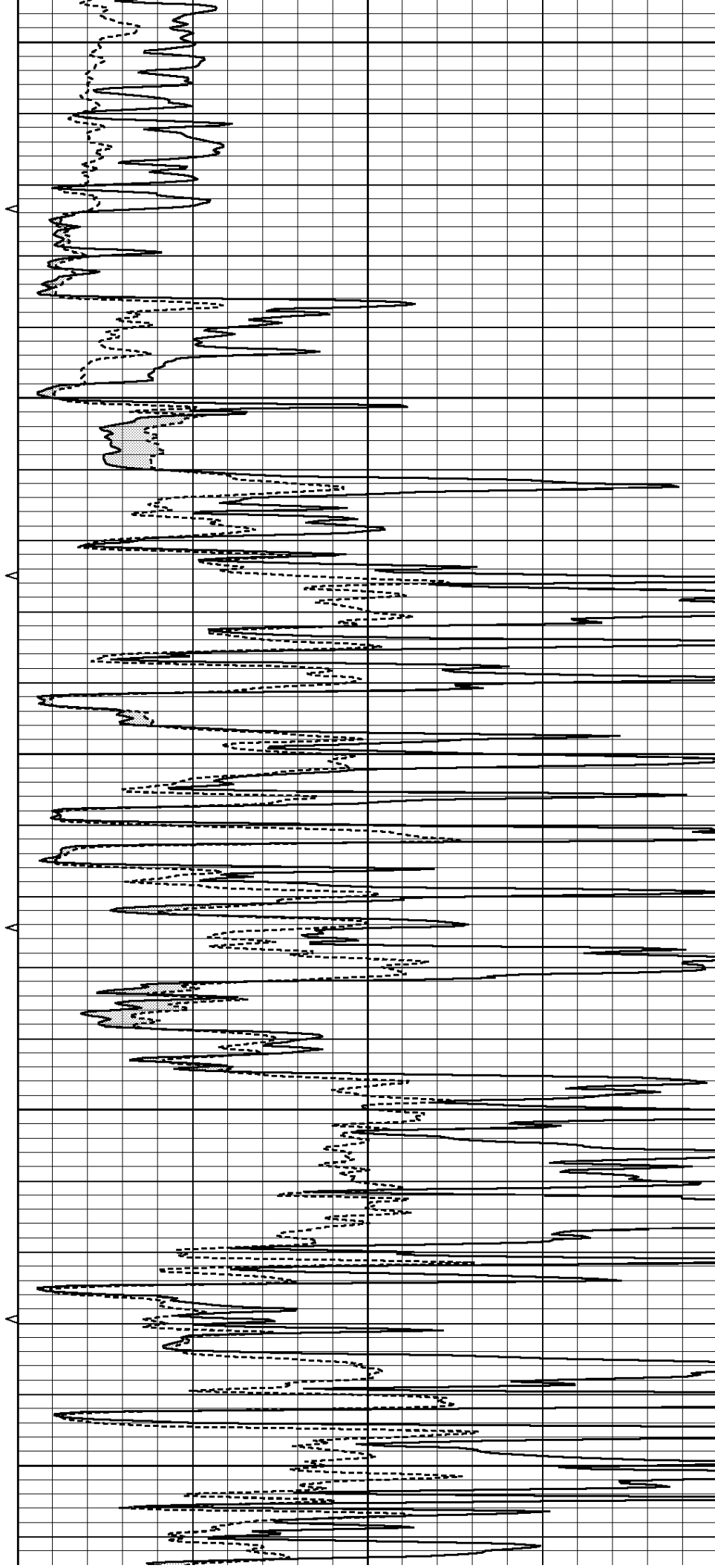
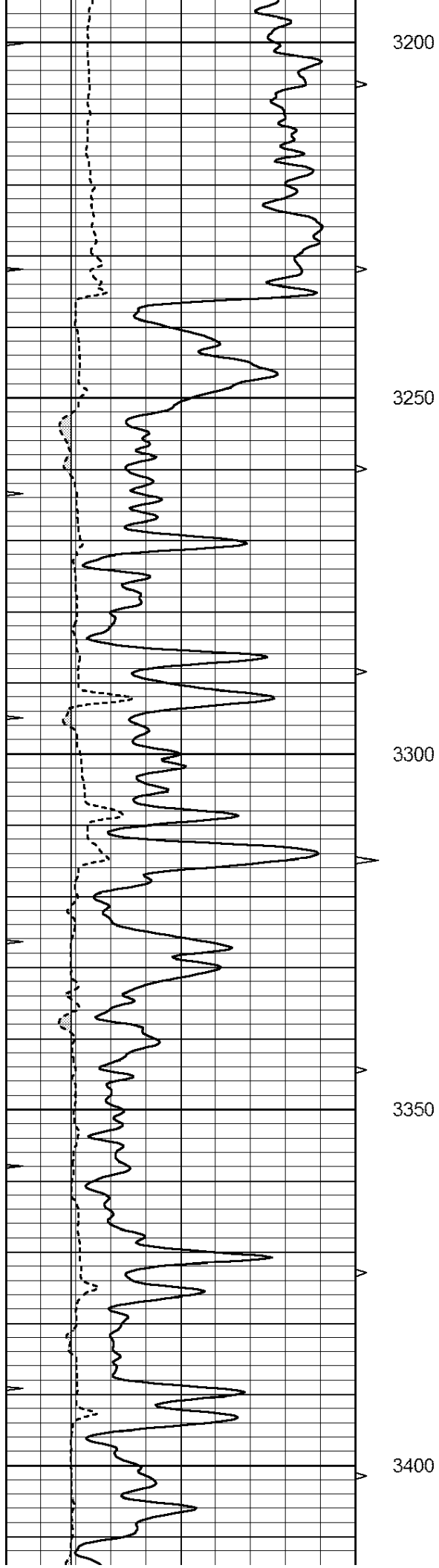
Comments

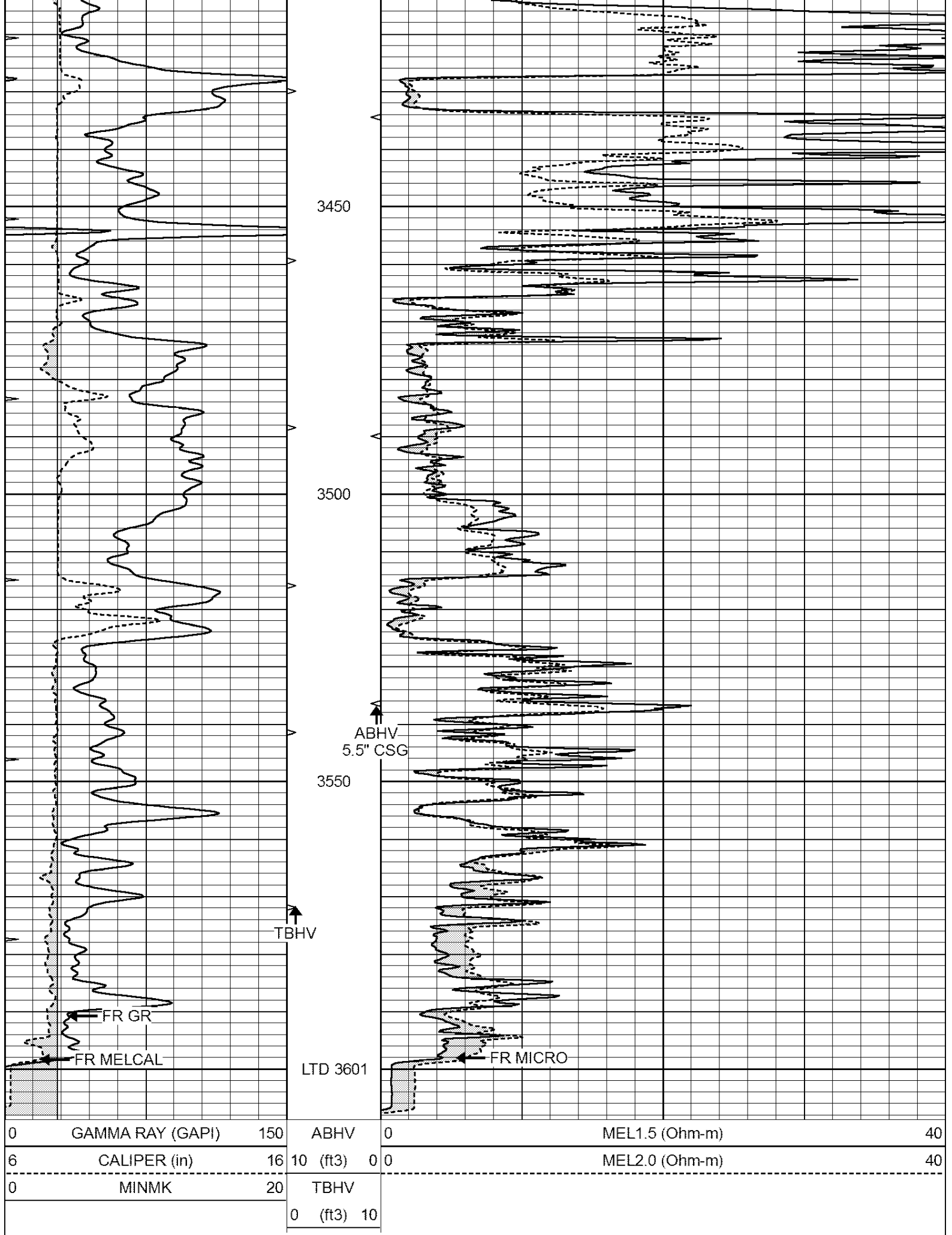
THANK YOU FOR USING NABORS, HAYS, KS. (785) 628-6395
DIRECTIONS:
GREAT BEND, KS - 6 MILES SOUTH TO RD SE 60
2 MILES EAST TO RD SE 30 - 3/4 MILE SOUTH - WEST INTO

Database File: 011789pe.db
Dataset Pathname: pass5.2
Presentation Format: _micro
Dataset Creation: Mon Sep 30 12:32:36 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

Charted by: _____			Depth in Feet scaled 1:2.10			
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		



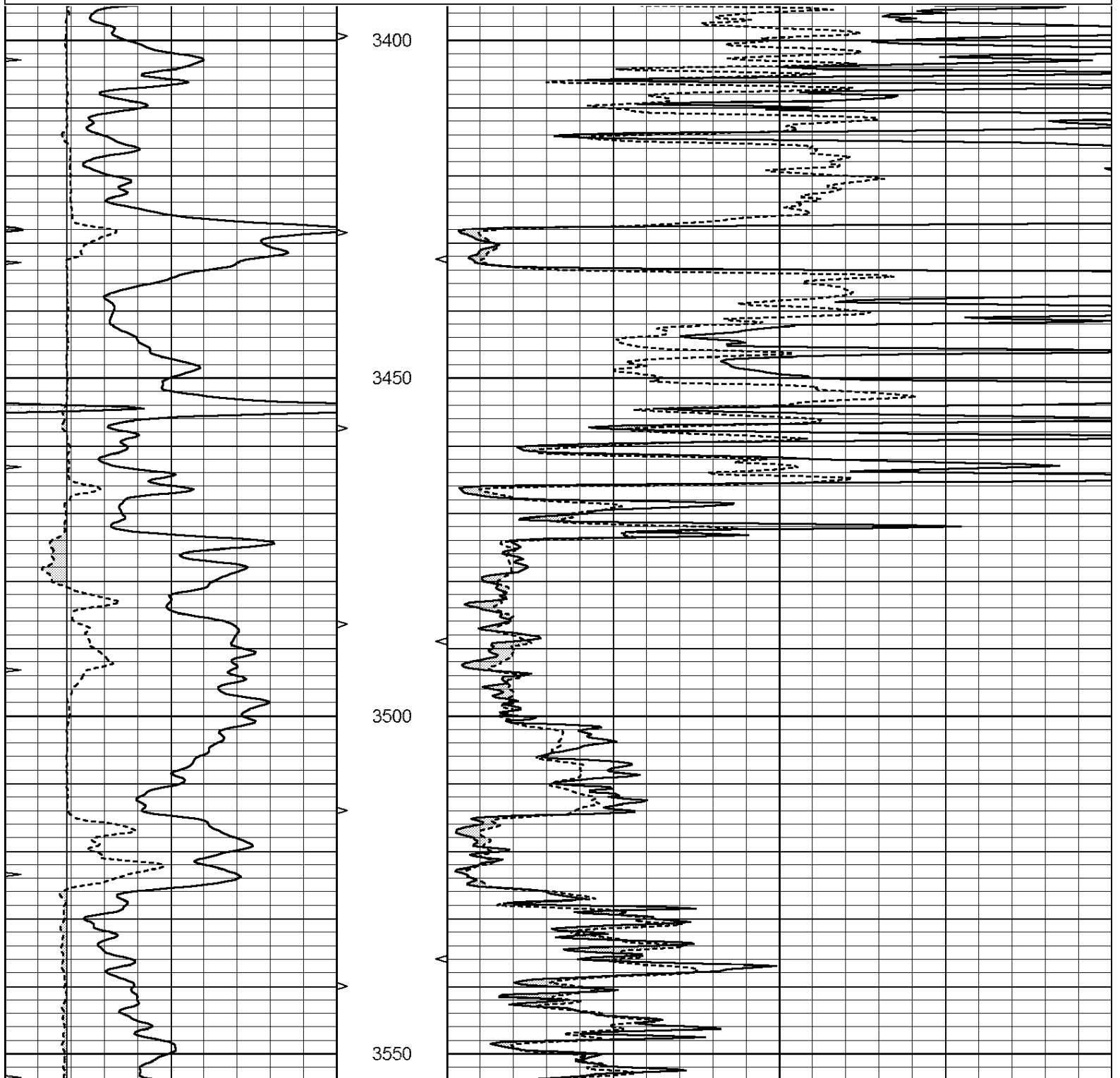


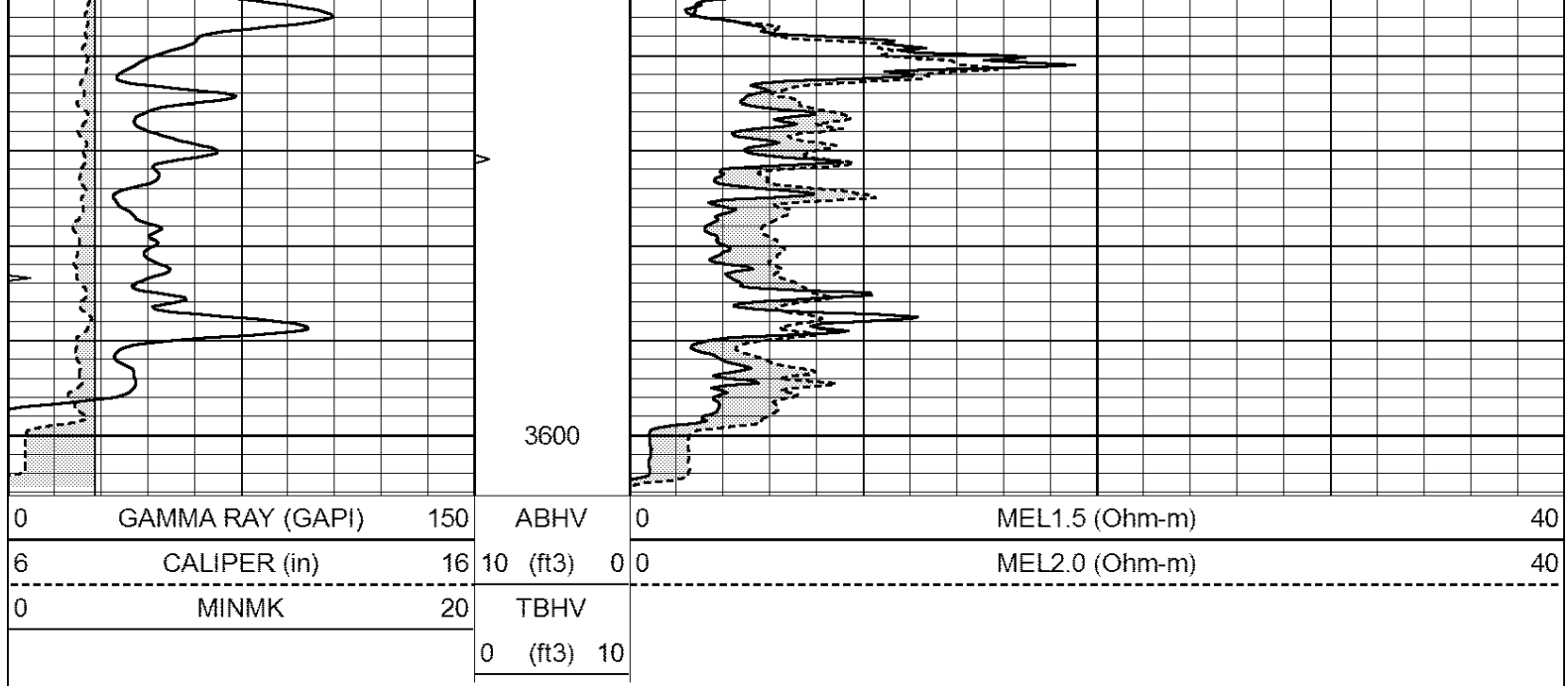


REPEAT SECTION

Database File: 011789pe.db
 Dataset Pathname: pass4.3
 Presentation Format: _micro
 Dataset Creation: Mon Sep 30 12:34:53 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		





Calibration Report

Database File: 011789pe.db
Dataset Pathname: pass5.2
Dataset Creation: Mon Sep 30 12:32:36 2013 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO6
Tool Model: PROBE
Performed: Sat Aug 10 00:21:37 2013

Caliper Calibration: Gain=5.542 Offset=-1.420

	Low Cal	High Cal
References	8.000	14.000
Readings	1.431	2.513

1.5" Calibration: Gain=32.075 Offset=-0.700

	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	1.196

2" Calibration: Gain=48.041 Offset=0.000

	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: 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