



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

MICRO LOG

Company HUTCHINSON OIL COMPANY		Well ALAN NW #1		Field SHEPHERD SOUTH		County STAFFORD		State KANSAS	
Location:		APL # : 15-185-23828-0000		CDL/CNL		DIL			
Permanent Datum		GROUND LEVEL		Elevation		1809			
Log Measured From		KELLY BUSHING		13' A.G.L.					
Drilling Measured From		KELLY BUSHING							
SEC 21		TWP 22S		RGE 11W					
Date		9/18/13							
Run Number		TWO							
Depth Driller		3699							
Depth Logger		3700							
Bottom Logged Interval		3698							
Top Log Interval		3000							
Casing Driller		8 5/8" @ 337							
Casing Logger		333							
Bit Size		7 7/8"							
Type Fluid in Hole		CHEMICAL MUD		CHLORIDES 5000 PPM					
Density / Viscosity		9.0/60							
pH / Fluid Loss		9.0/8.8							
Source of Sample		FLOWLINE							
Rm @ Meas. Temp		.60 @ 87F							
Rmt @ Meas. Temp		.45 @ 87F							
Rmc @ Meas. Temp		.72 @ 87F							
Source of Rmt / Rmc		MEASUREMENT							
Rm @ BHT		.46 @ 113F							
Time Circulation Stopped		2 HOURS							
Time Logger on Bottom		113F							
Maximum Recorded Temperature		4010							
Equipment Number		HAYS, KANSAS							
Location		JASON CAPPELLUCCI							
Recorded By		JEFF BURK							
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:
HUDSON, KS. - E. TO T IN THE ROAD - 1/2 N. - 1 E. - 3/4 N. - N & E. INTO

Database File:

011783ddn.db

Dataset Pathname:

pass6.2

Presentation Format:

_micro

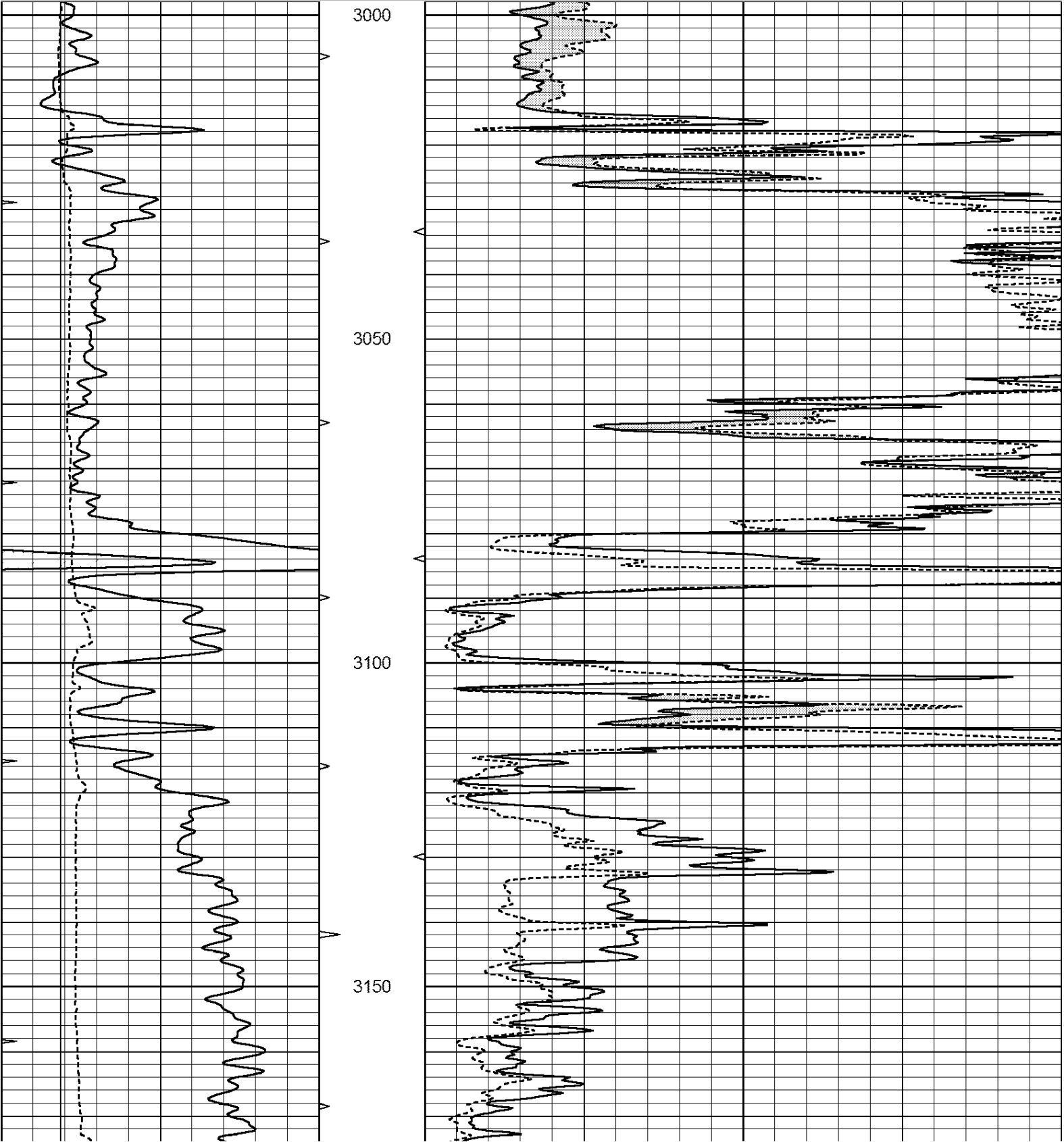
Dataset Creation:

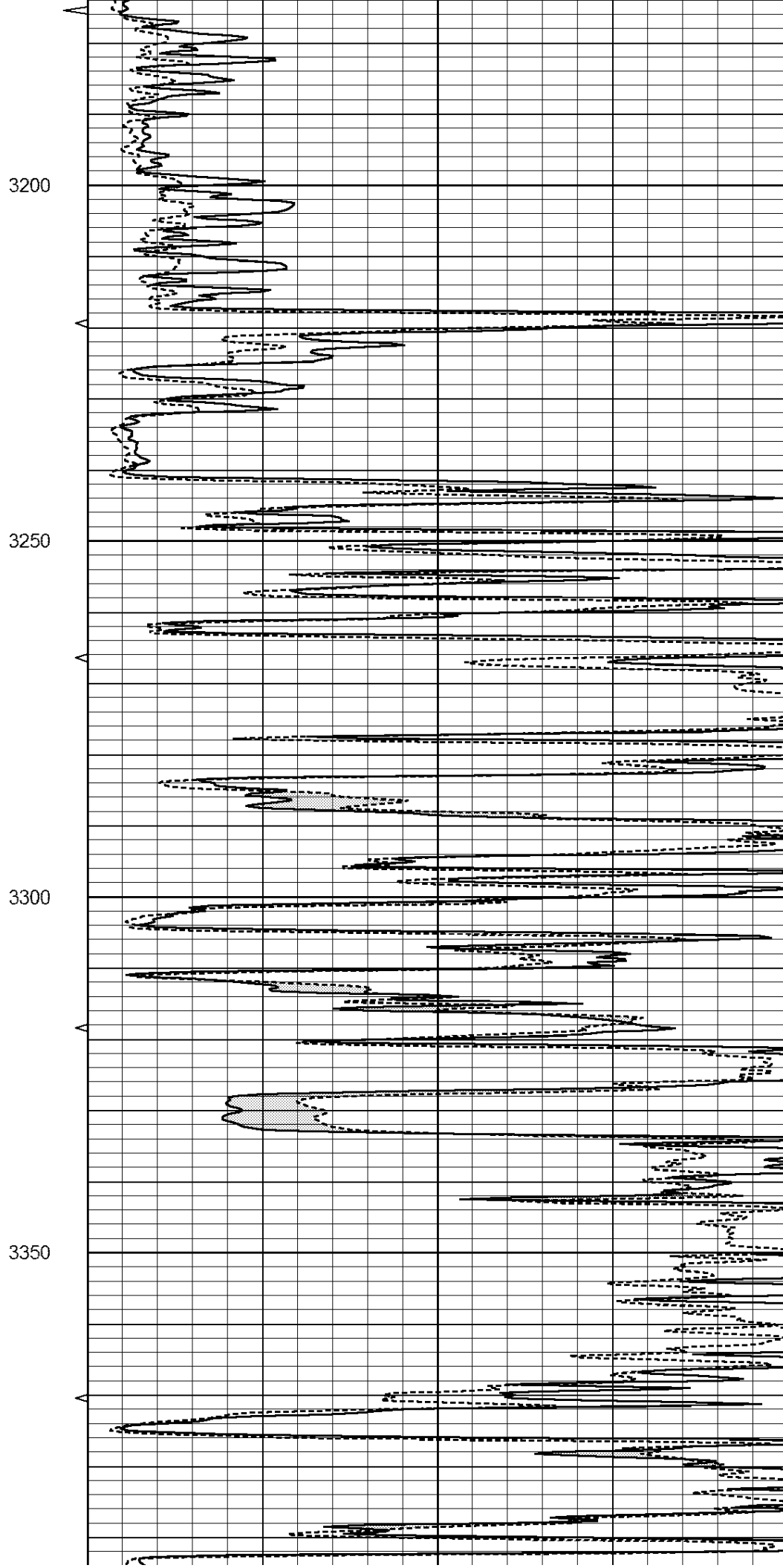
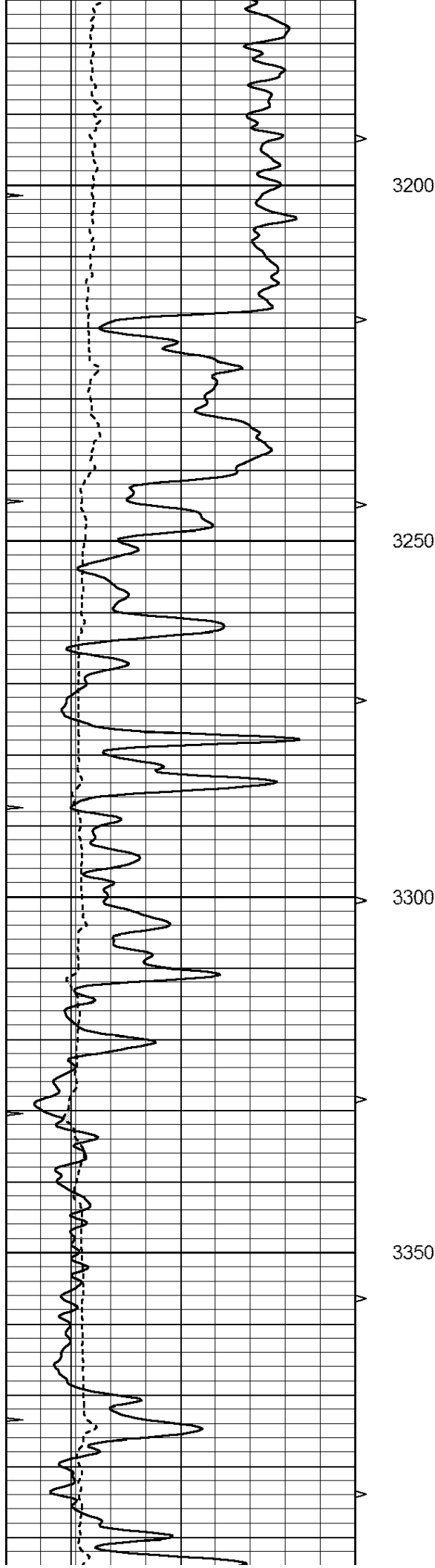
Wed Sep 18 05:41:26 2013 by Calc Open-Cased 090629

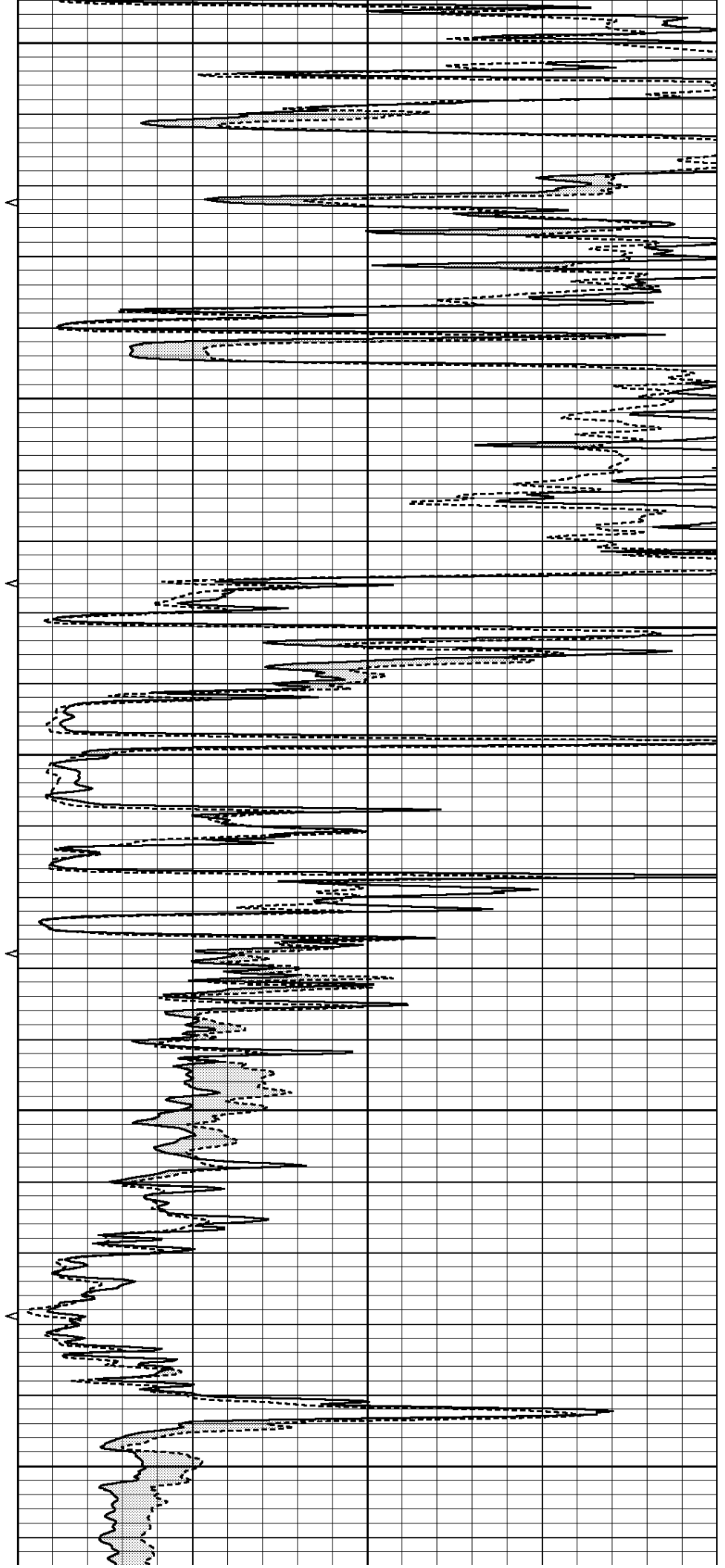
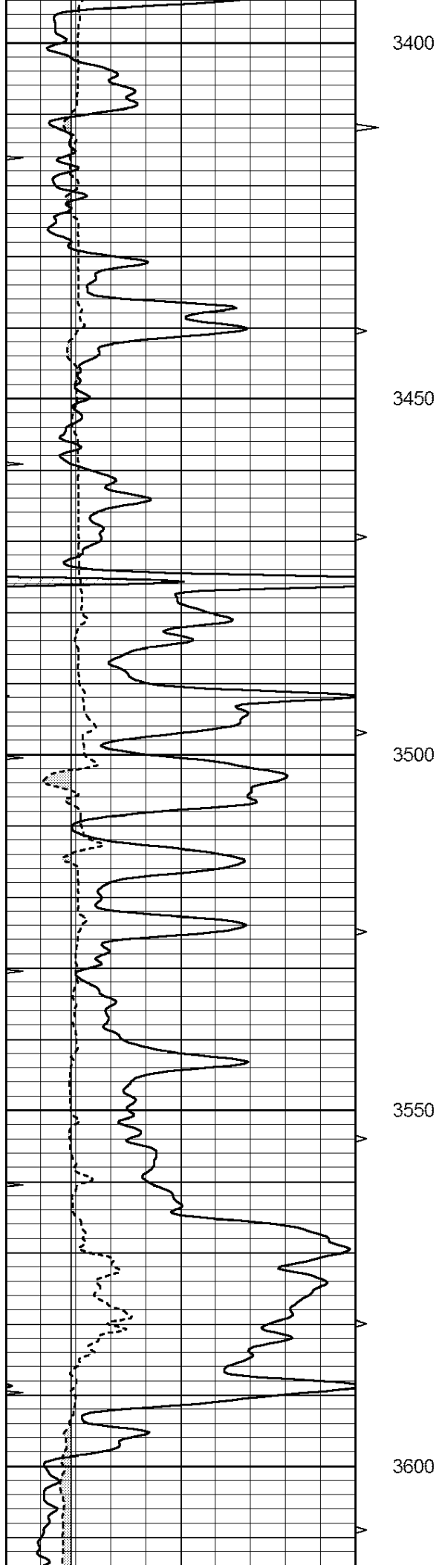
Charted by:

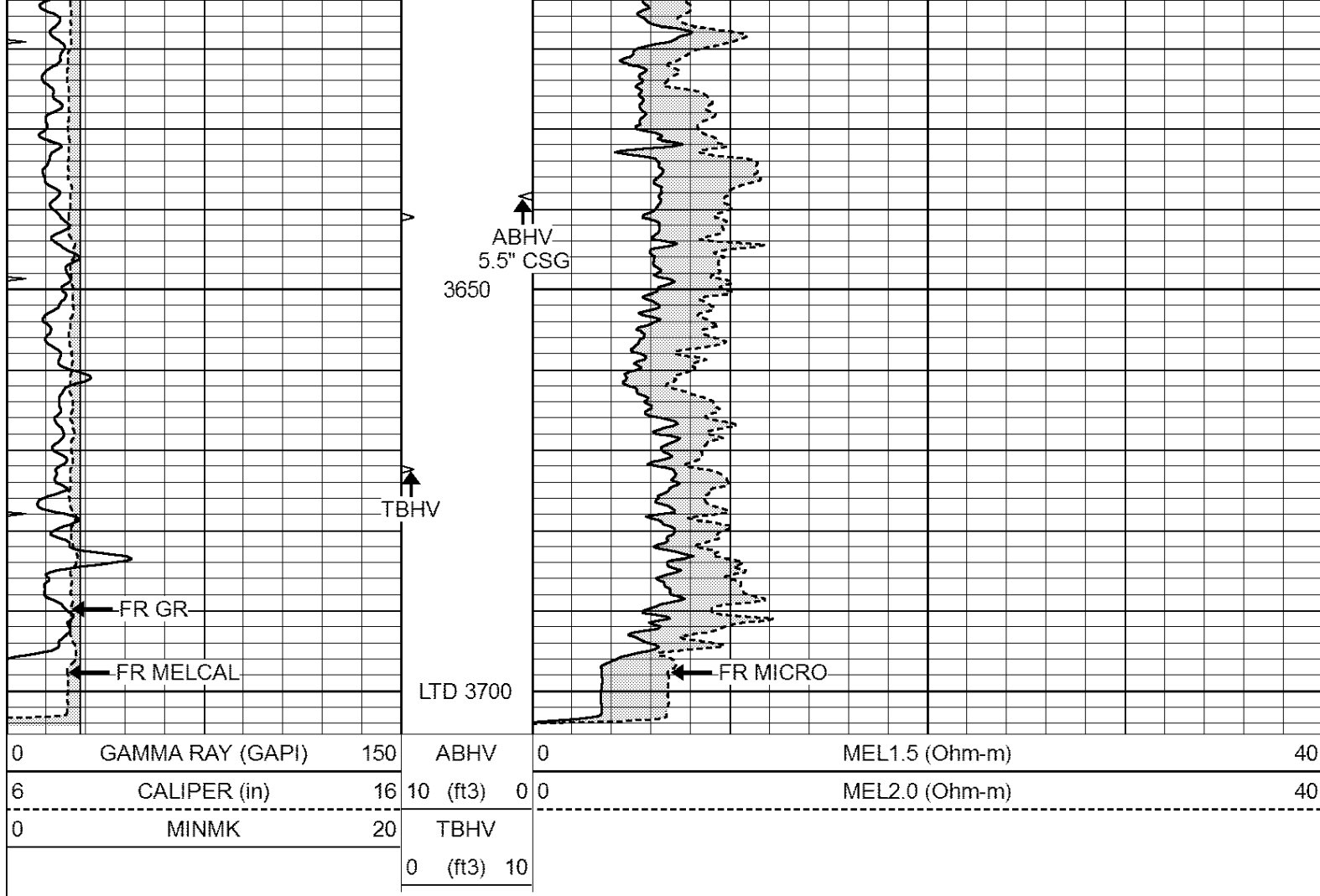
Depth in Feet scaled 1:240

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		





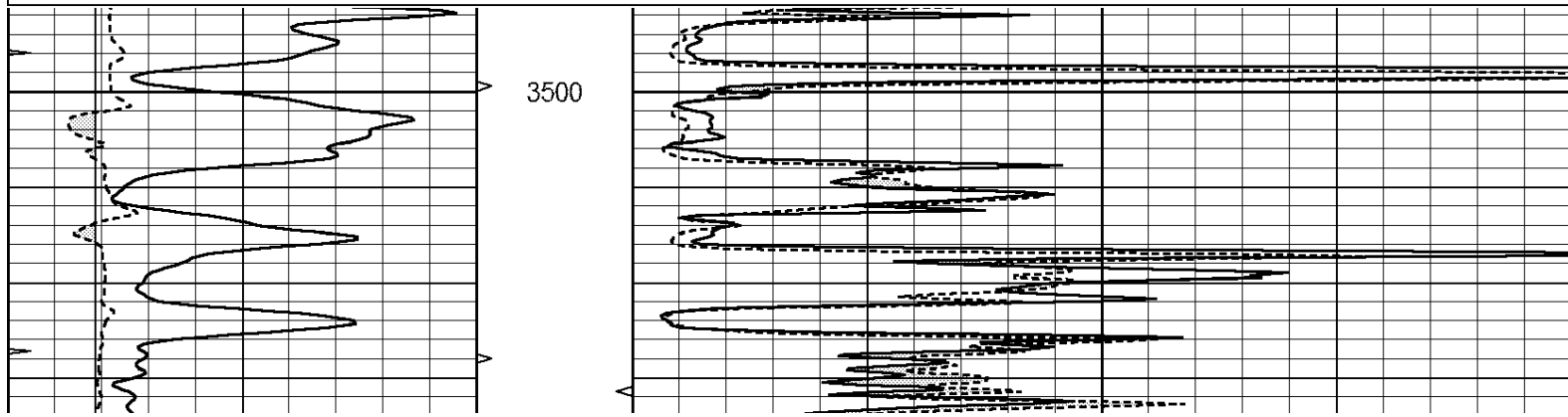


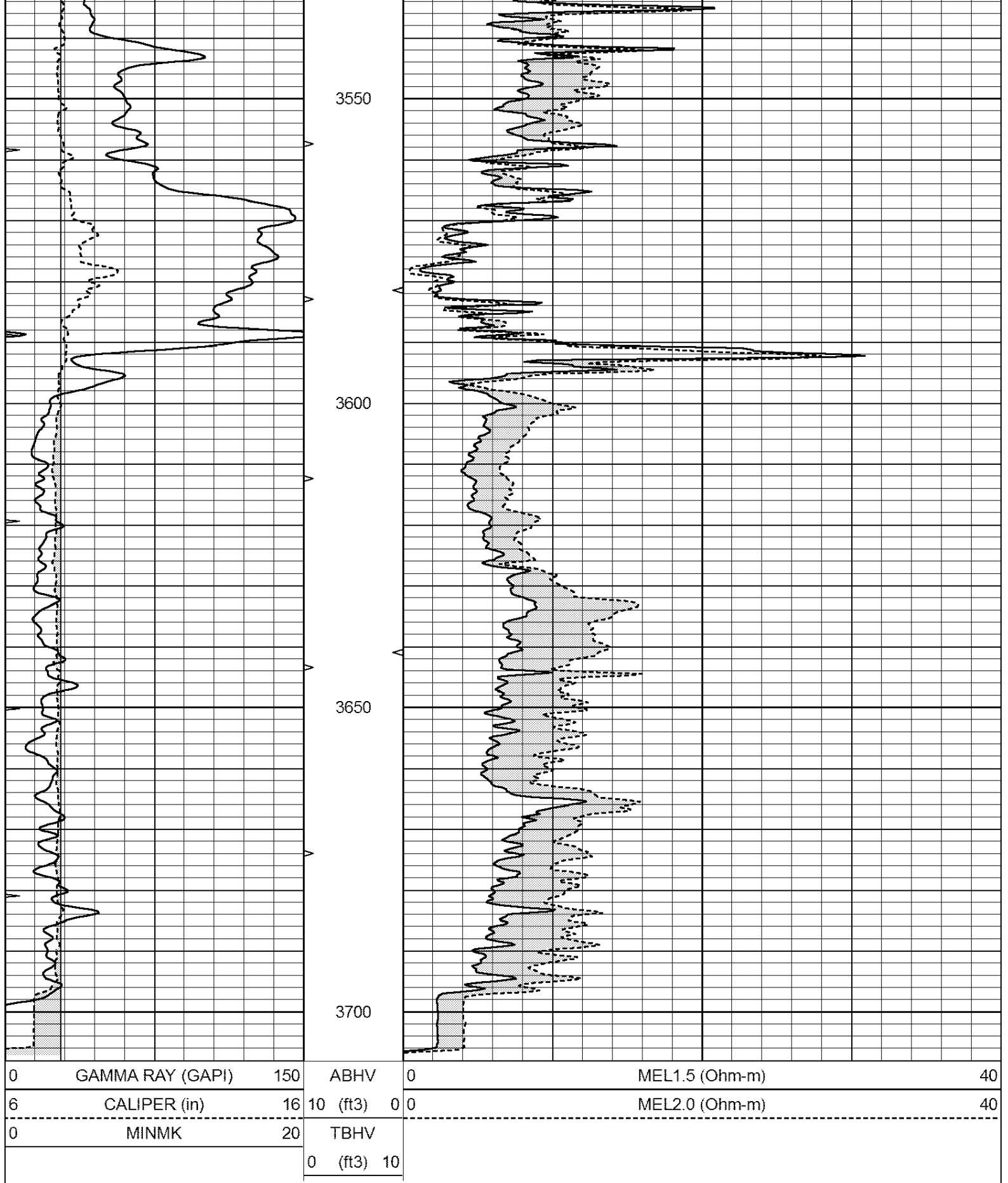


REPEAT SECTION

Database File: 011783ddn.db
 Dataset Pathname: pass5.1
 Presentation Format: _micro
 Dataset Creation: Wed Sep 18 05:35:28 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: 011783ddn.db
Dataset Pathname: pass5.1
Dataset Creation: Wed Sep 18 05:35:28 2013 by Calc Open-Cased 090629

Serial Number:	MICRO6	
Tool Model:	PROBE	
Performed:	Sat Aug 10 00:21:37 2013	
Caliper Calibration:	Gain=5.542	Offset=-1.220
References	Low Cal	High Cal
Readings	8.000	14.000
	1.431	2.513
1.5" Calibration:	Gain=38.075	Offset=-0.700
References	Low Cal	High Cal
Readings	0.000	20.000
	0.004	1.196
2" Calibration:	Gain=64.041	Offset=-2.000
References	Low Cal	High Cal
Readings	0.000	20.000
	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