



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company	DREILING OIL CO., INC.	Company	DREILING OIL CO., INC.
Well	WOLF #4	Well	WOLF #4
Field	RUDER	Field	RUDER
County	ELLIS	County	ELLIS
State	KANSAS	State	KANSAS
Location:	API # : 15-051-26573-00-00 990' FNL & 920' FEL E/2 - SW - NE - NE/4	Other Services CNL/CDL DIL	
Permanent Datum	GROUND LEVEL	Elevation	
Log Measured From	KELLY BUSHING 8' A.G.L.	K.B. 1989 D.F. 1987 G.L. 1981	
Drilling Measured From	KELLY BUSHING		
Date	8-16-13		
Run Number	TVMO		
Depth Driller	3645		
Depth Logger	3646		
Bottom Logged Interval	3644		
Top Log Interval	2850		
Casing Driller	1145		
Casing Logger	1145		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2.000	
Density / Viscosity	9.2 / 60		
pH / Fluid Loss	10.0 / 7.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.75 @ 86F		
Rmf @ Meas. Temp	0.56 @ 86F		
Rmc @ Meas. Temp	0.90 @ 86F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.57 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	112F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	ROGER FISHER		

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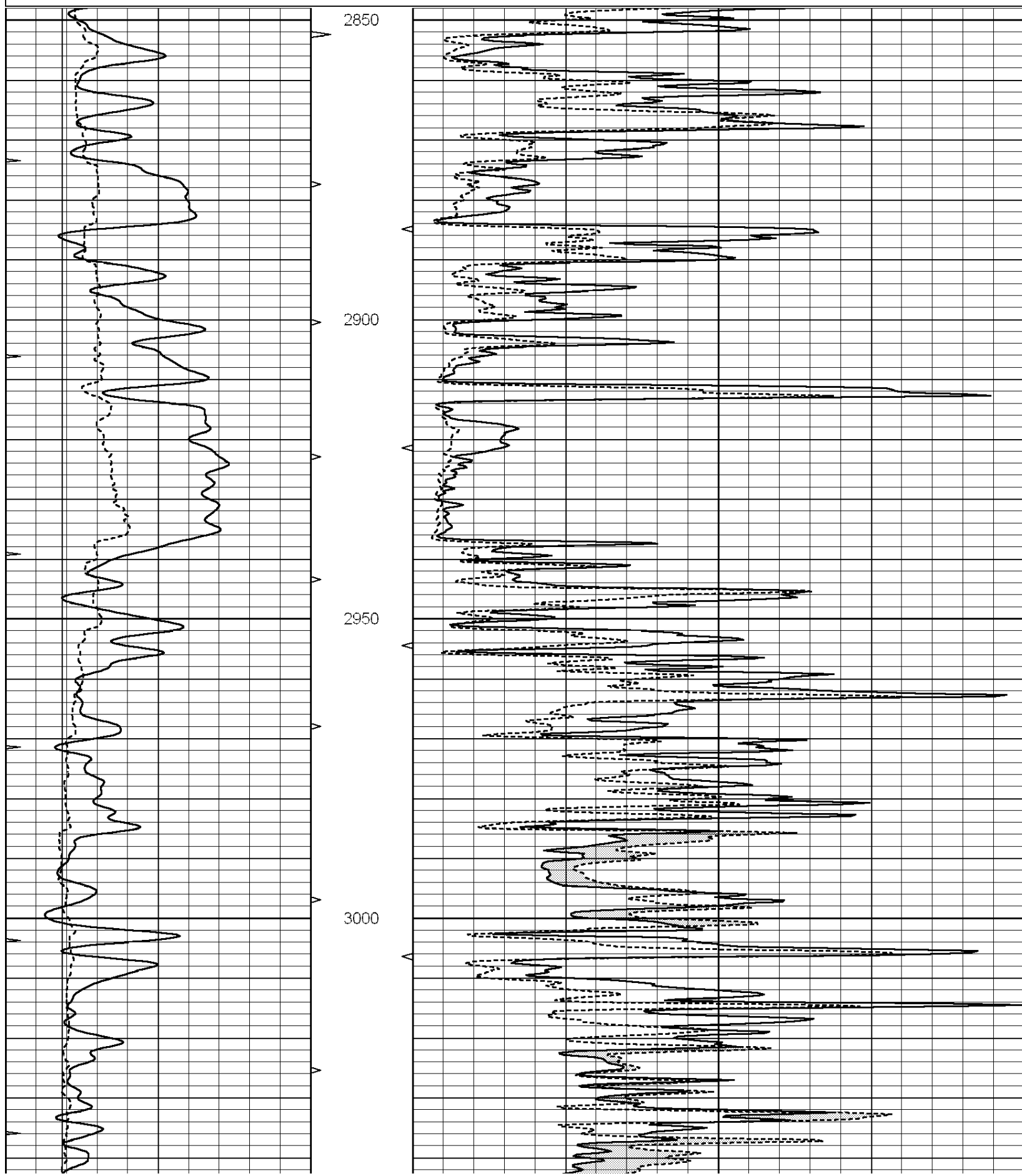
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

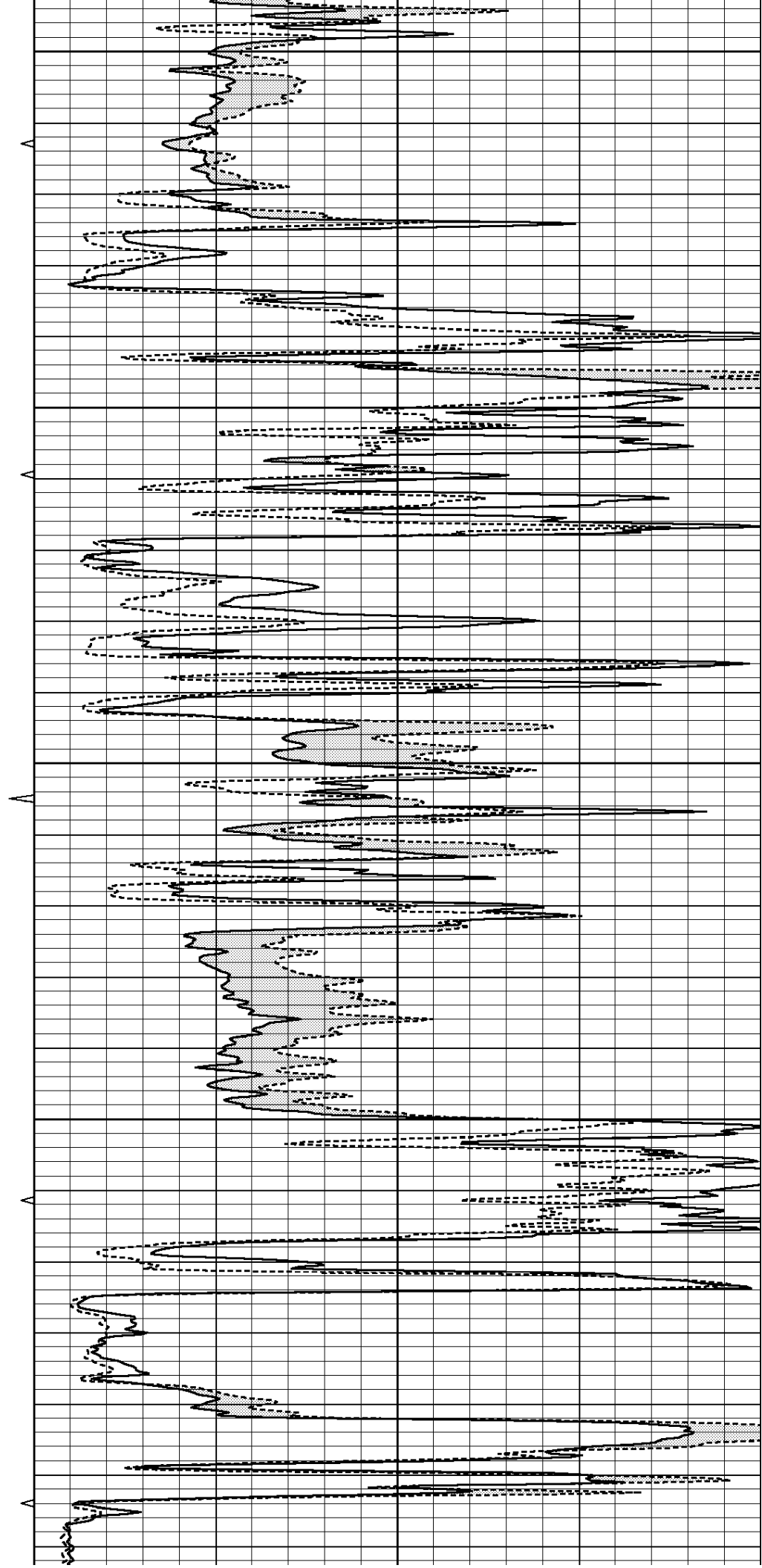
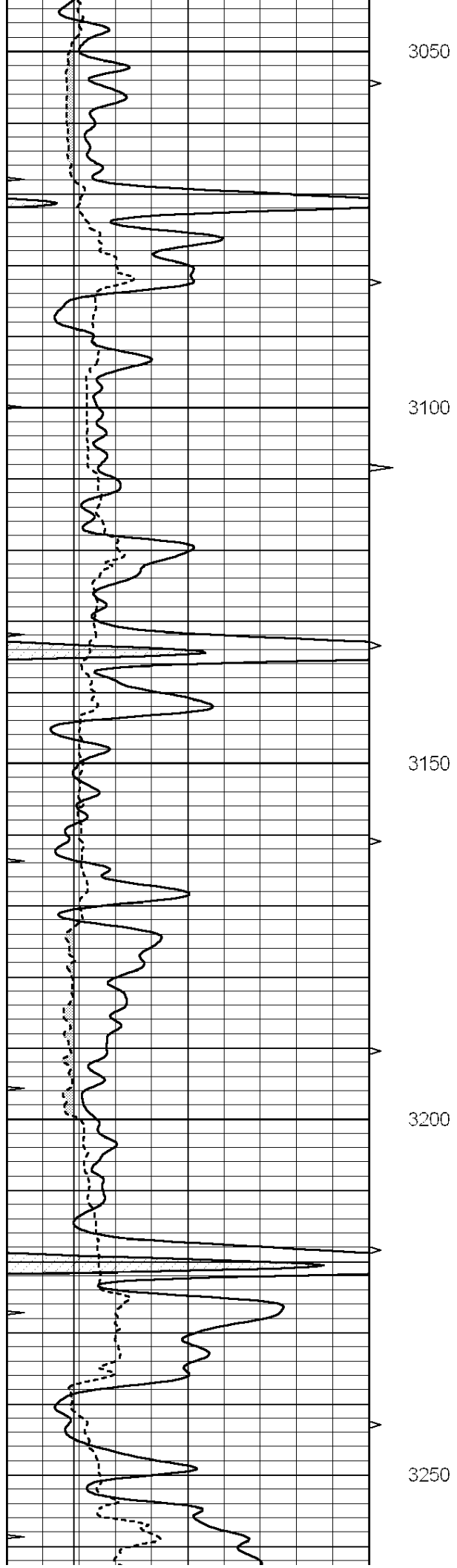
Comments

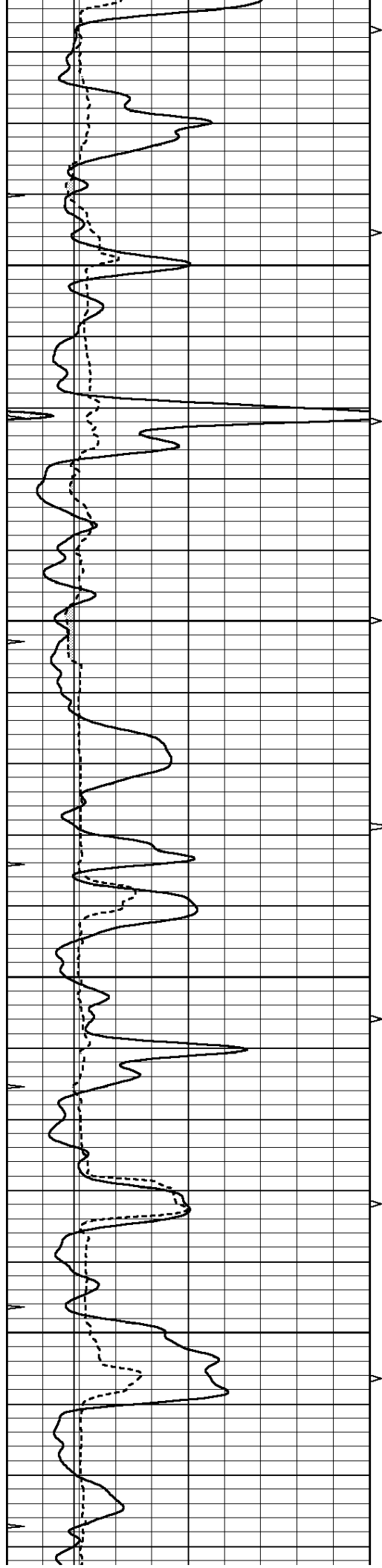
NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: HAYS, KS. - 7 MILES SOUTH - WEST 1/4 SOUTH INTO

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

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





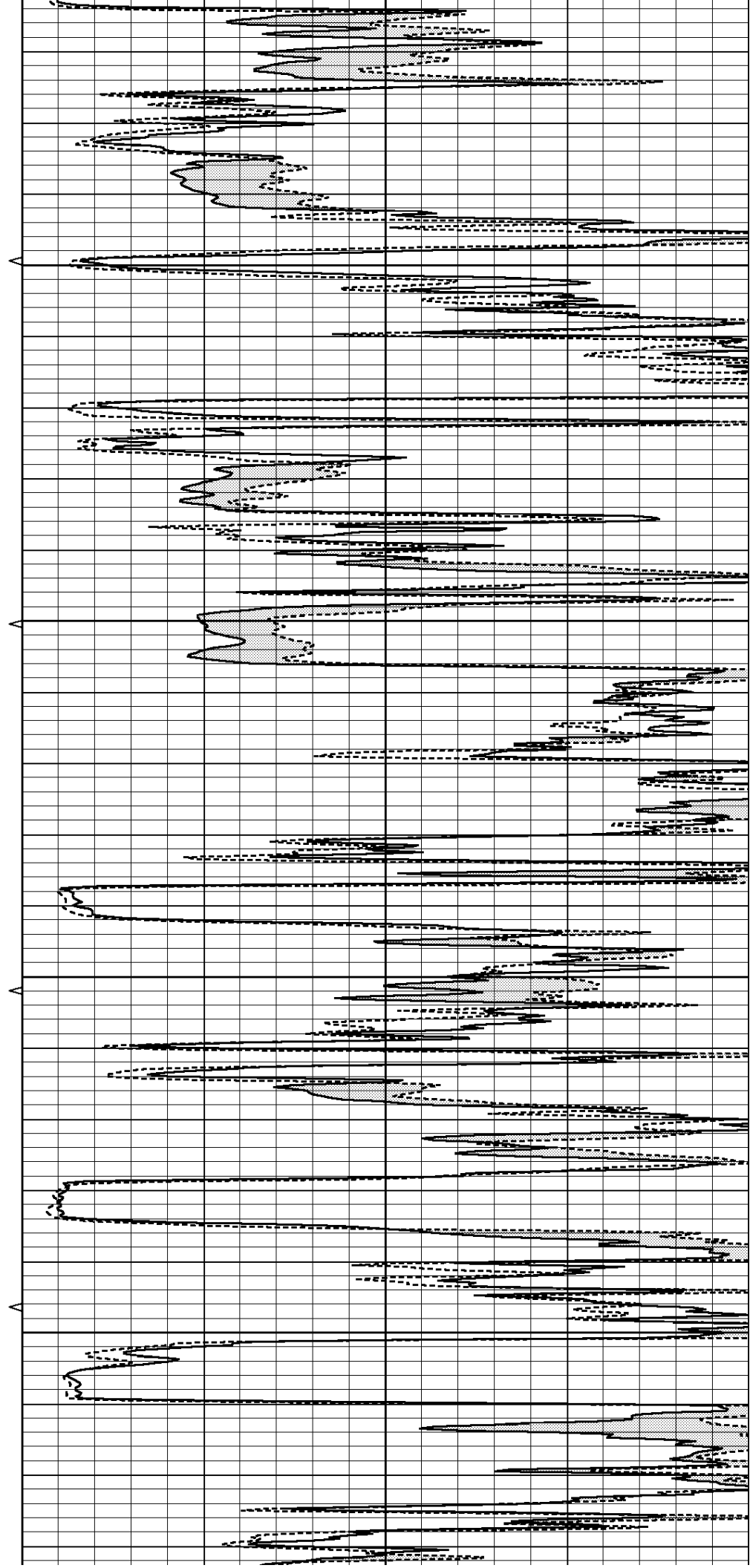


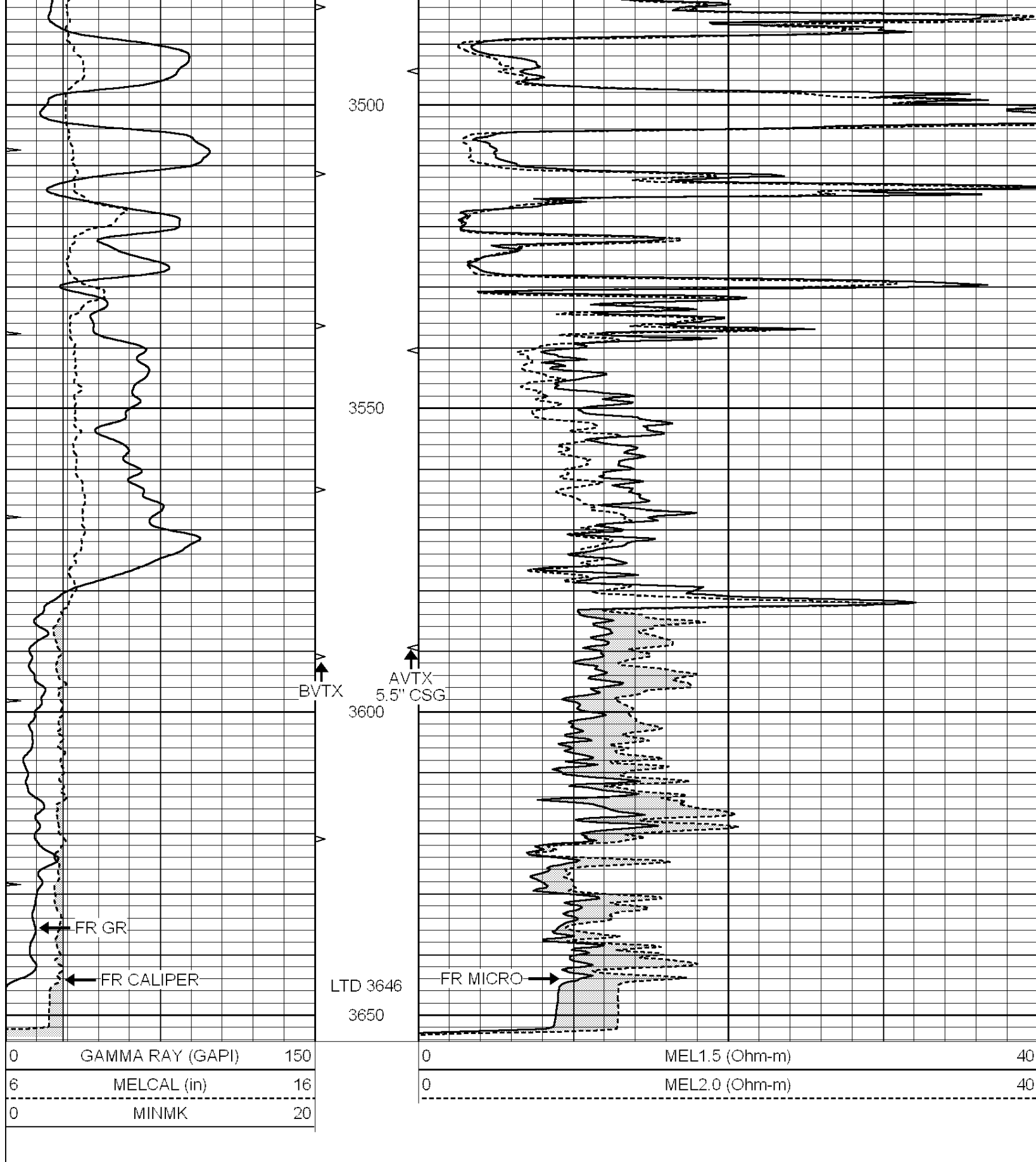
3300

3350

3400

3450

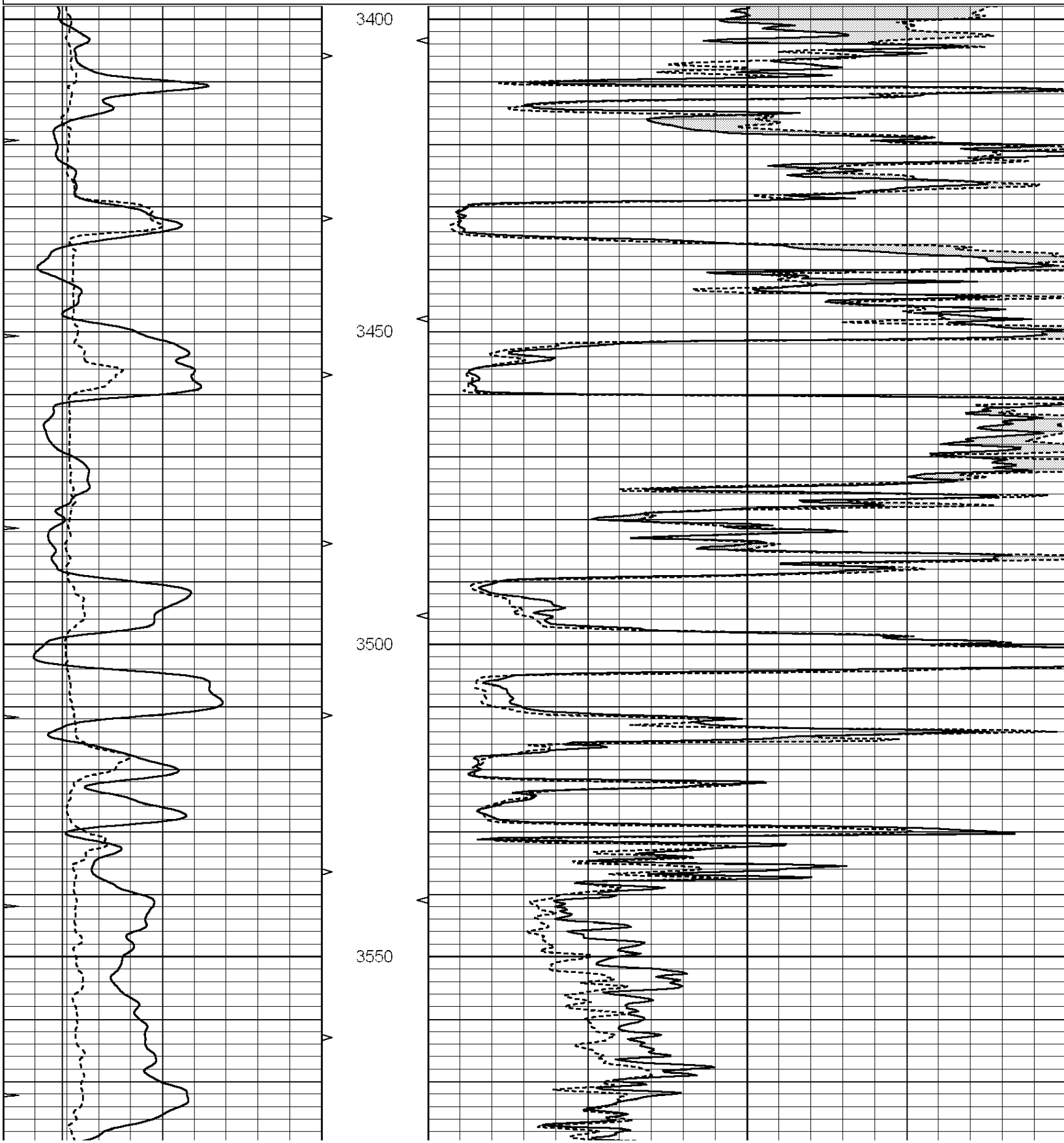


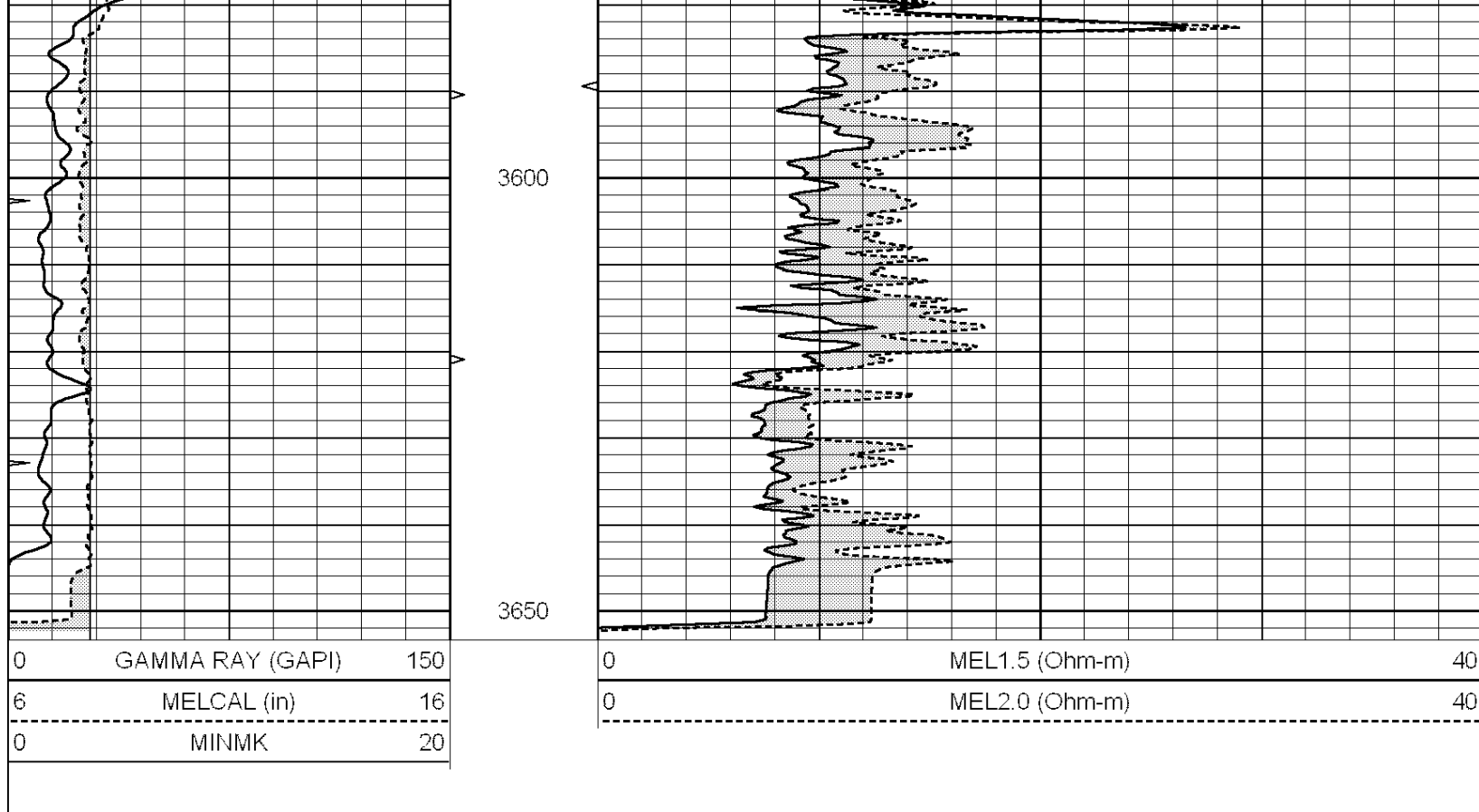


Database File: 011704ddn.db
Dataset Pathname: pass6.1
Presentation Format: _micro
Dataset Creation: Fri Aug 16 03:01:32 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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

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





Calibration Report

Database File: 011704ddn.db
 Dataset Pathname: pass7.1
 Dataset Creation: Fri Aug 16 03:31:00 2013 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number:	MICRO4	
Tool Model:	PROBE	
Performed:	Sun Jul 21 22:50:53 2013	
Caliper Calibration:	Gain=2.500	Offset=-6.100
References	Low Cal	High Cal
Readings	8.600	14.000
	5.584	7.602
1.5" Calibration:	Gain=28.000	Offset=-0.800
References	Low Cal	High Cal
Readings	0.000	20.000
	0.009	1.541
2" Calibration:	Gain=31.000	Offset=-0.800
References	Low Cal	High Cal
Readings	0.000	20.000
	0.004	1.198

Gamma Ray Calibration Report

Serial Number:	GR5	
Tool Model:	OPEN	
Performed:	Fri Aug 16 02:46:42 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	0.0

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7600	GAPI/cps