



MICRO LOG

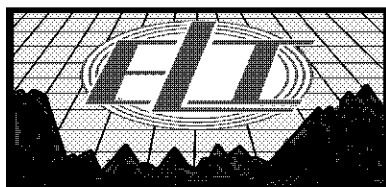
Company NORSTAR PETROLEUM, INC.	
Well HINEMAN UNIT #1-16	
Field	
County LANE	
State KANSAS	
Location: API #: 15-101-22586-00-00	
1222' FSL & 1086' FEL	
County LANE	State KANSAS
Permanent Datum SEC 16 TWP 19S RGE 27W	Other Services CDL/CNL/PE DIL/SON
Log Measured From GROUND LEVEL Elevation 2702	Elevation
Drilling Measured From KELLY BUSHING 7' A.G.L	K.B. 2709
	D.F. 2707
	G.L. 2702
Date 2/23/17	
Run Number TWO	
Depth Driller 4718	
Depth Logger 4722	
Bottom Logged Interval 4704	
Top Log Interval 3800	
Casing Driller 8 5/8" @ 290	
Casing Logger 290	
Bit Size 7 7/8	
Type Fluid in Hole CHEMICAL MUD	CHLORIDES 3000 PPM
Density / Viscosity 9.4/59	
pH / Fluid Loss 10.5/7.6	
Source of Sample FLOWLINE	
Rm @ Meas. Temp 1.60 @ 79F	
Rmf @ Meas. Temp 1.20 @ 79F	
Rmc @ Meas. Temp 1.92 @ 79F	
Source of Rmf / Rmc MEASUREMENT	
Rm @ BHT 1.03 @ 122F	
Time Circulation Stopped 2 HOURS	
Time Logger on Bottom	
Maximum Recorded Temperature 122F	
Equipment Number 3802	
Location HAYS, KANSAS	
Recorded By JASON CAPPELLUCCI	
Witnessed By WES HANSEN	

<<< Fold Here >>>

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

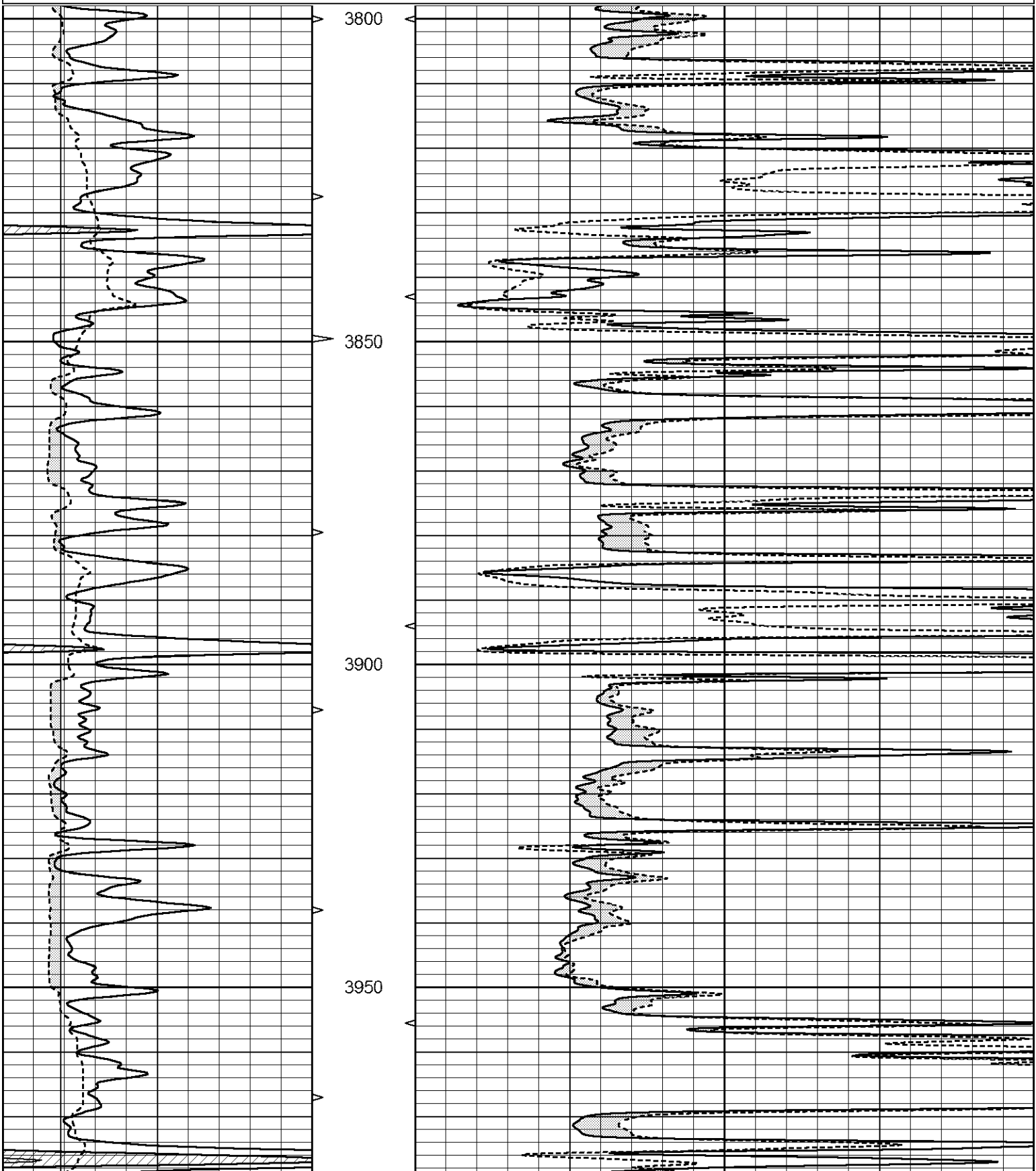
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
ALAMOTA, KS. - 6 SOUTH ON TURKEY RED RD. TO 90 RD. - 1/4 WEST - NORTH INTO

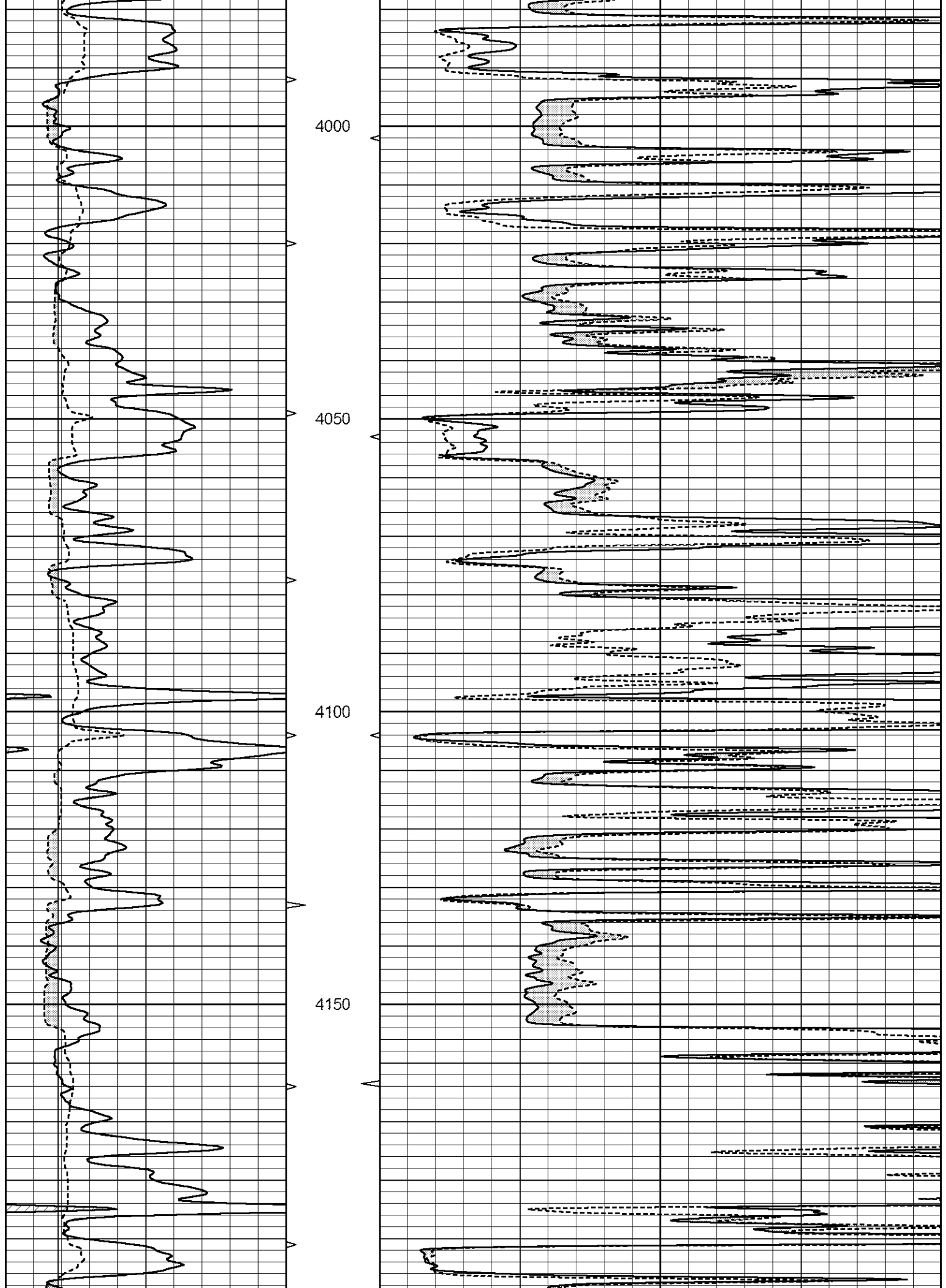


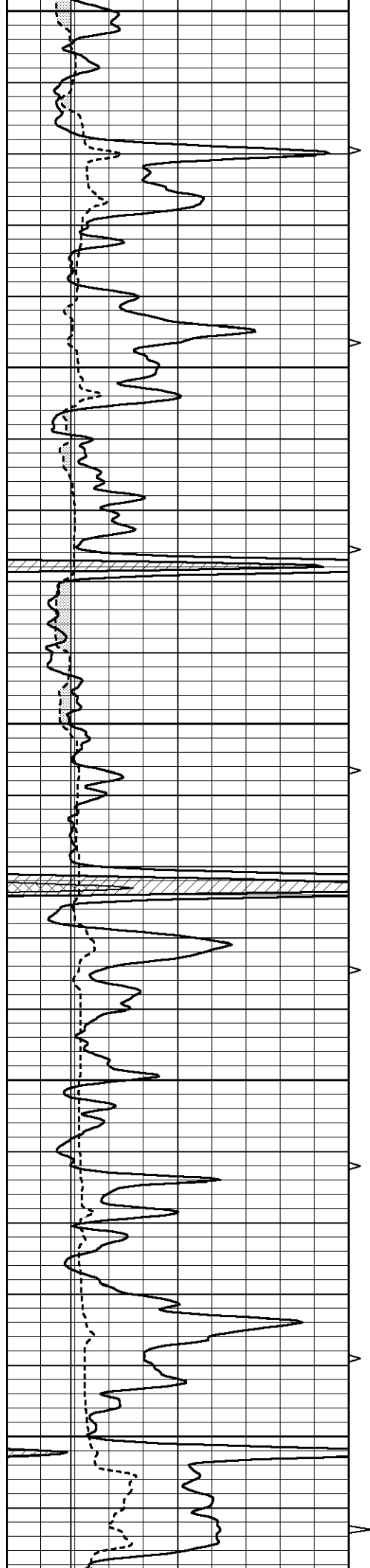
MAIN SECTION

Database File	1121ddn8.db
Dataset Pathname	pass7.1
Presentation Format	_micro
Dataset Creation	Thu Feb 23 12:16:35 2017
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		







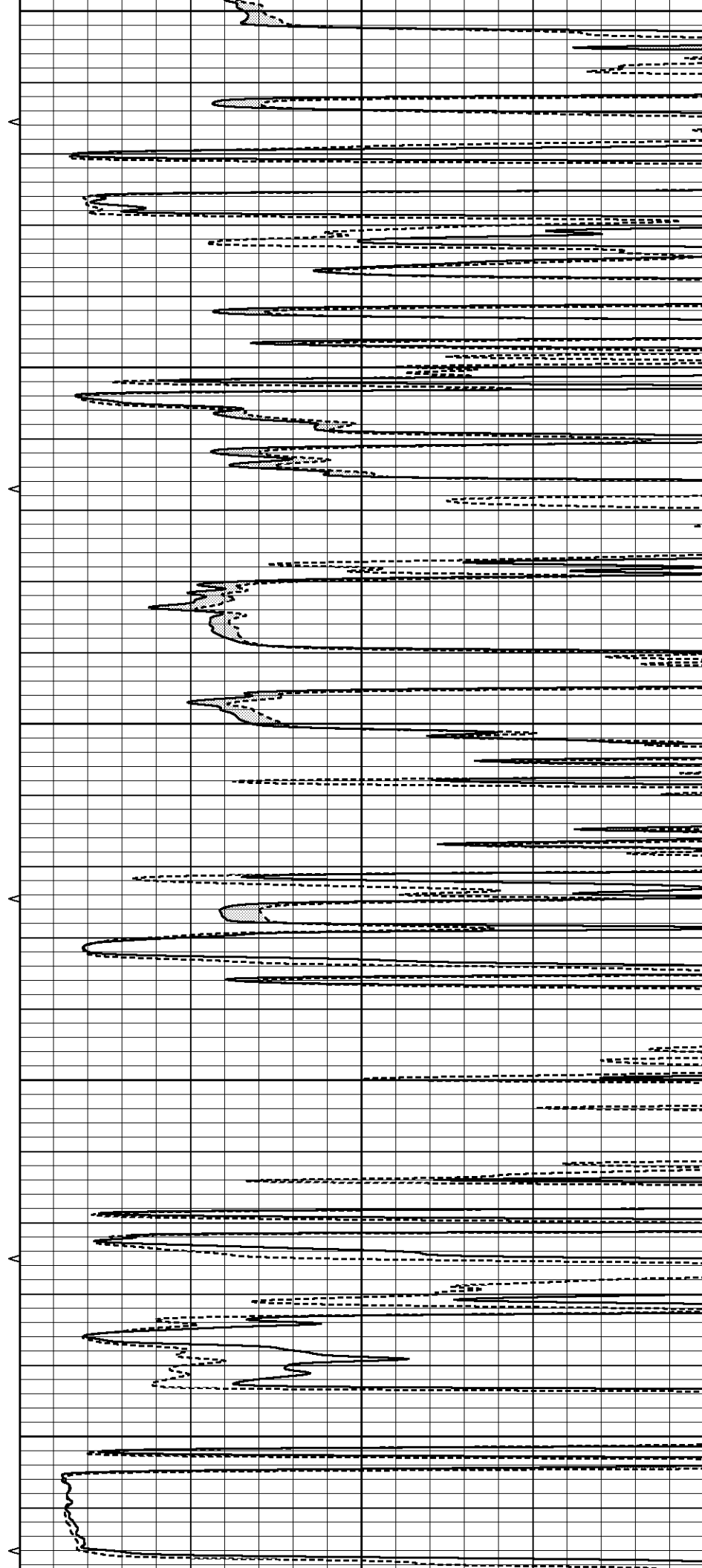
4200

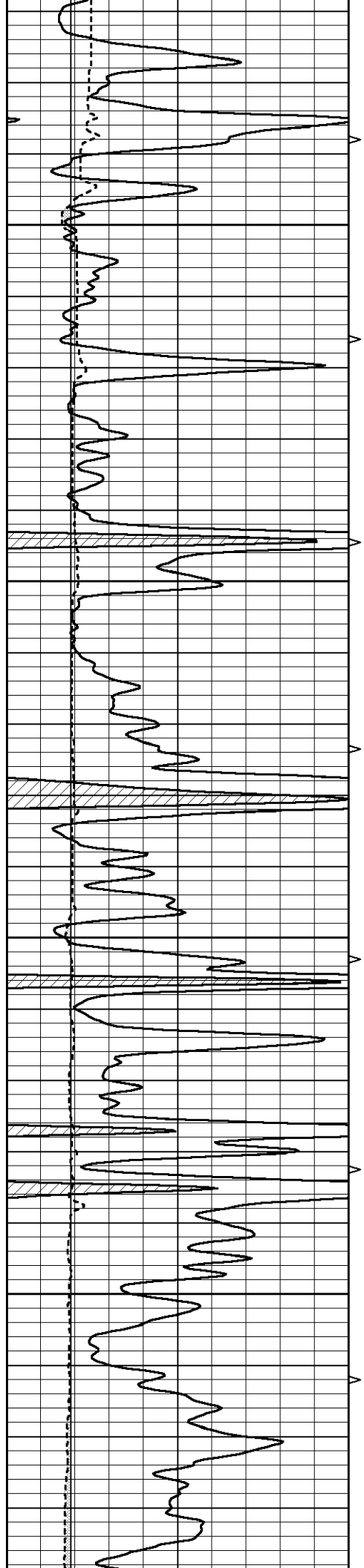
4250

4300

4350

4400



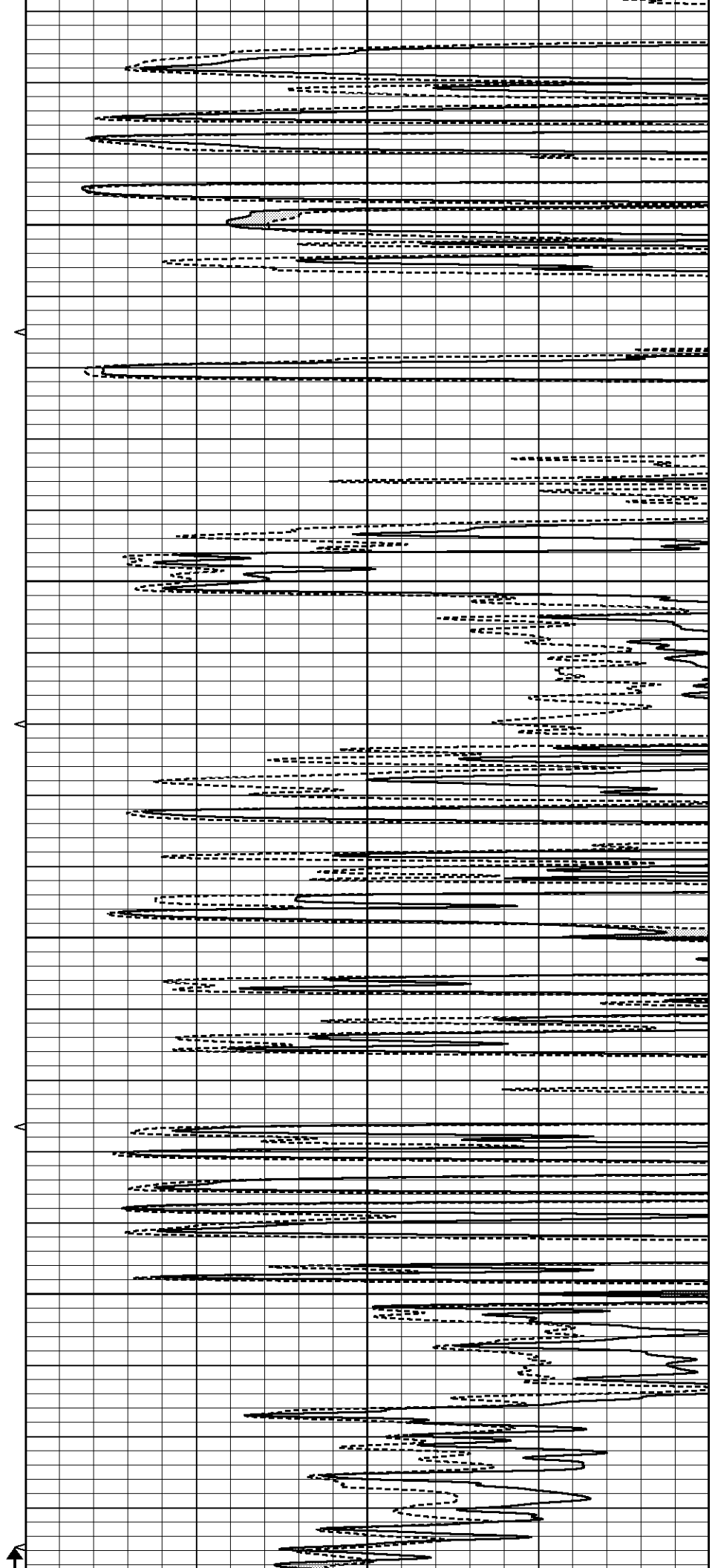


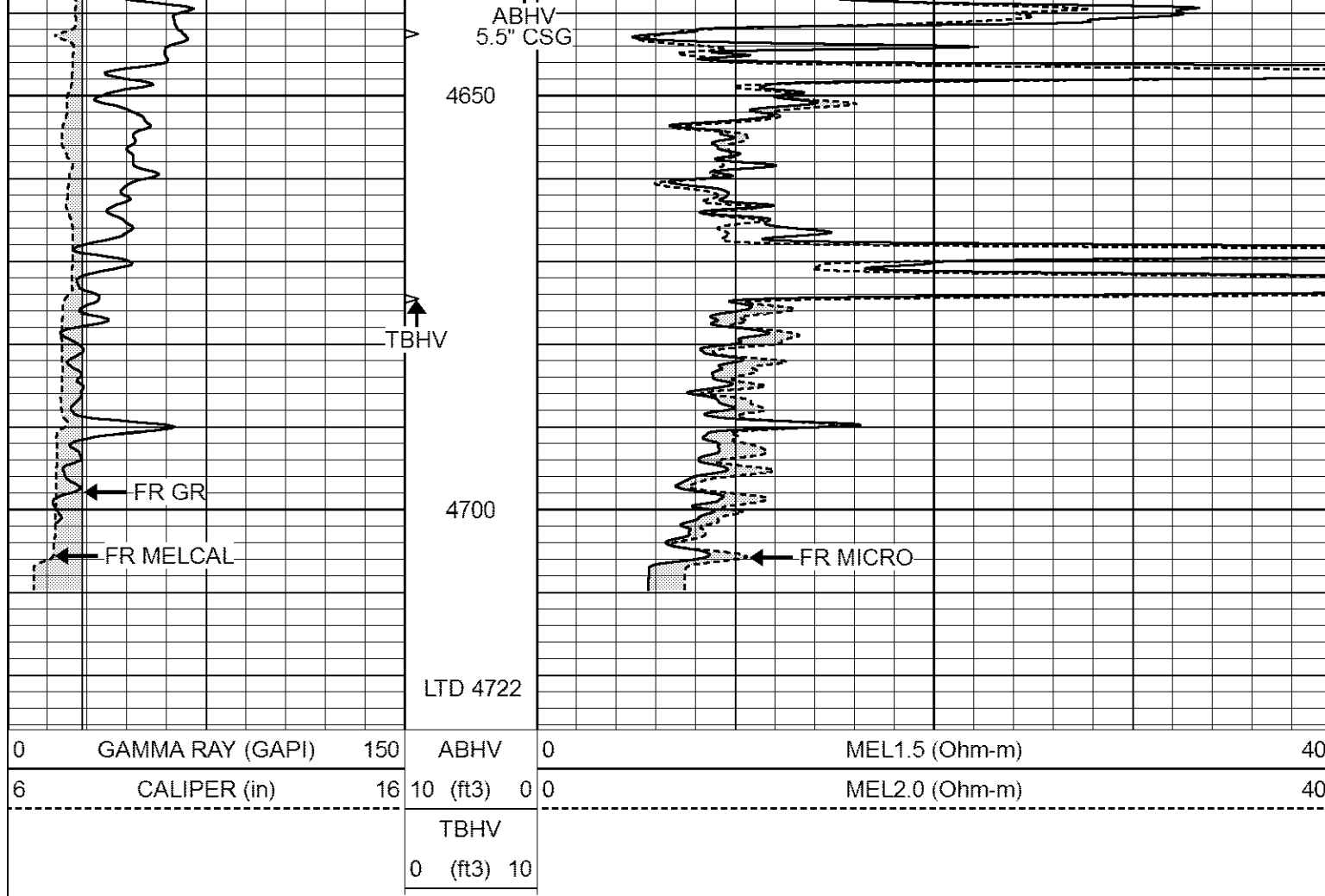
4450

4500

4550

4600

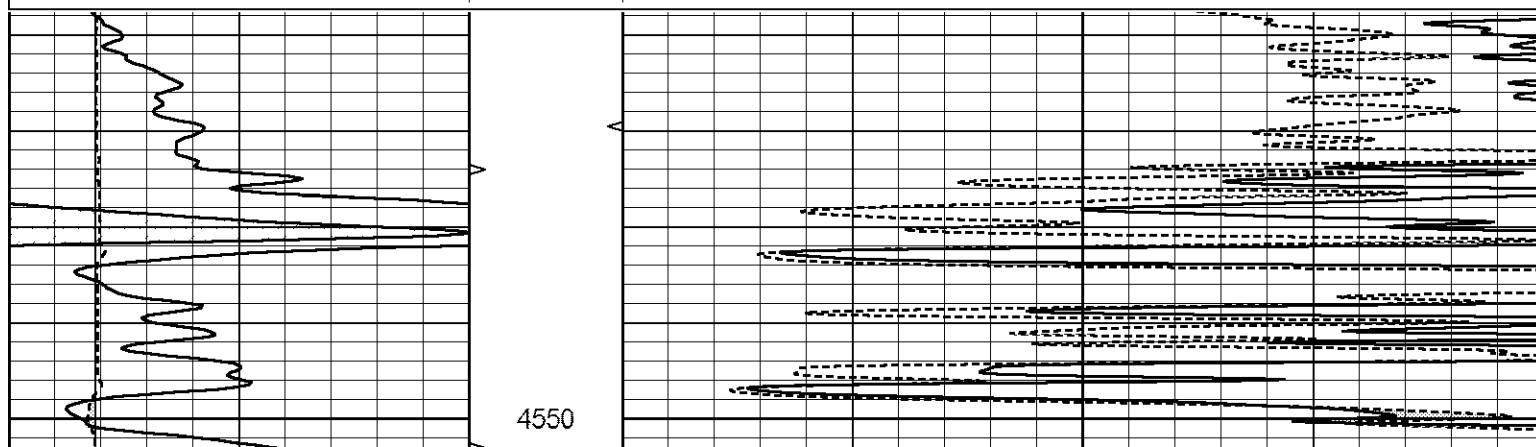


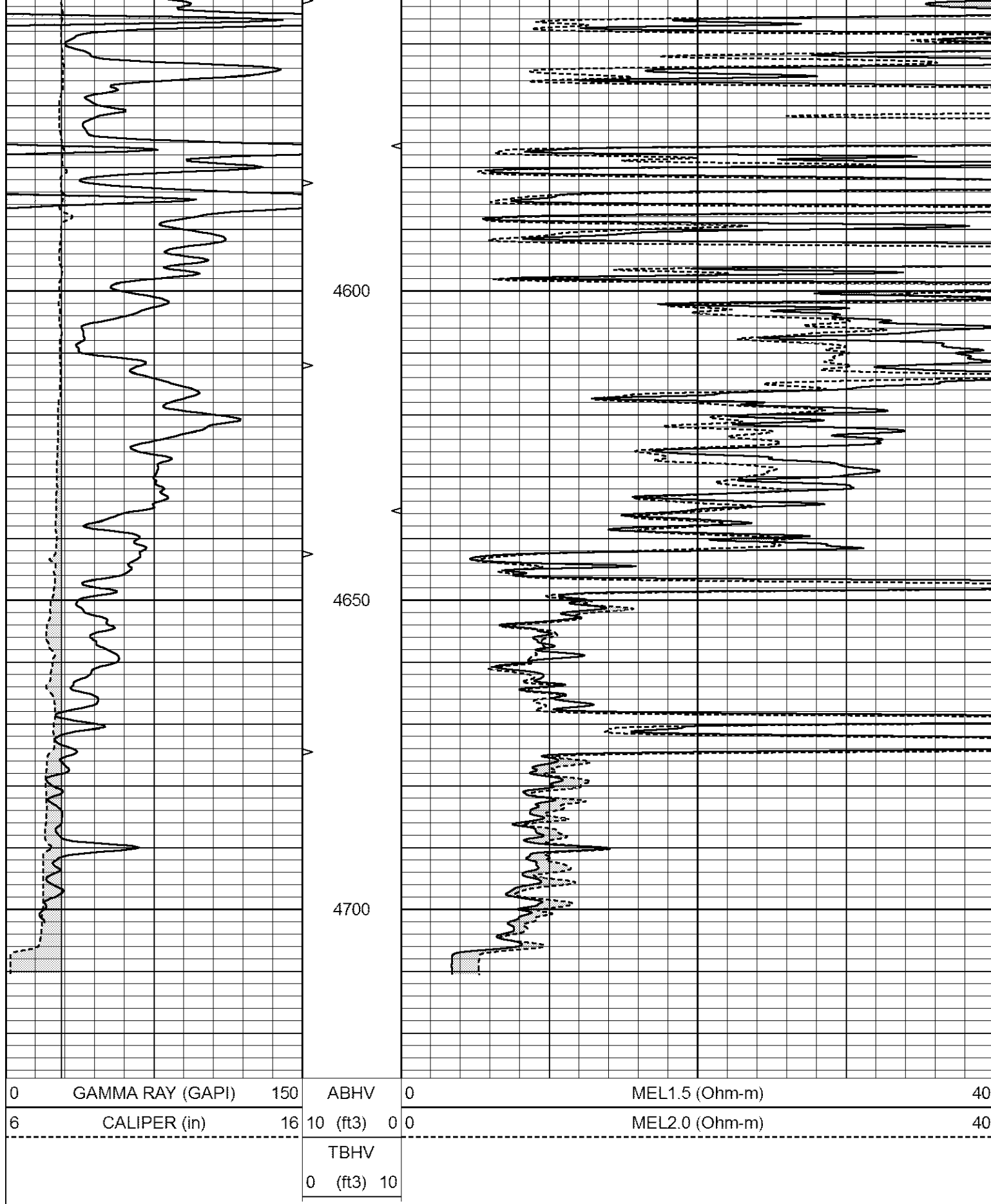


REPEAT SECTION

Database File 1121ddn8.db
 Dataset Pathname pass6.1
 Presentation Format _micro
 Dataset Creation Thu Feb 23 12:06:48 2017
 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 1121ddn8.db
 Dataset Pathname pass6.1
 Dataset Creation Thu Feb 23 12:06:48 2017

Serial Number: 070911
 Tool Model: ProbeL
 Performed: Thu Dec 08 13:09:11 2016

Caliper Calibration: Gain=4.161 Offset=1.400

	Low Cal	High Cal
References	8.000	14.000
Readings	1.333	2.775

1.5" Calibration: Gain=37.000 Offset=0.000

	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	0.843

2" Calibration: Gain=35.000 Offset=0.650

	Low Cal	High Cal
References	0.000	20.000
Readings	0.021	0.810

Microlog Calibration Report

Serial-Model: 070911-ProbeL
 Performed: Sat Apr 11 01:13:01 2015

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0002	0.4836	V	0.0000	10.0000	Ohm-m	20.6908	-0.0051
Inverse	0.0018	0.6297	V	0.0000	10.0000	Ohm-m	15.9263	-0.0282
Caliper	0.0000	1.0000	V	0.0000	1.0000	in	1.0000	0.0000

Gamma Ray Calibration Report

Serial Number: 7
 Tool Model: Probe1
 Performed: Wed Jun 29 11:10:58 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.4300 GAPI/cps