



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company	DOWNING-NELSON OIL CO. INC.
Well	HOCKERSMITH-ROBBEN #2-29
Field	OSTMEYER NORTHWEST
County	THOMAS
State	KANSAS

Location:	API # : 15-193-20900-00-00	Other Services CDL/CNL DIL
1760' FSL & 1160' FWL NE - SE - NW - SW		
SEC 29 TWP 9S RGE 31W		Elevation K.B. 3046 D.F. 3044 G.L. 3038
Permanent Datum	GROUND LEVEL	
Log Measured From	KELLY BUSHING 8' A.G.L.	
Drilling Measured From	KELLY BUSHING	

Date	9/27/13
Run Number	TWO
Depth Driller	4710
Depth Logger	4710
Bottom Logged Interval	4708
Top Log Interval	3750
Casing Driller	8 5/8 " @ 307'
Casing Logger	307'
Bit Size	7.875
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.4 / 69
pH / Fluid Loss	10.0 / 8.0
Source of Sample	FLOWLINE
Rim @ Meas. Temp	1.00 @ 89F
Rmf @ Meas. Temp	0.75 @ 89F
Rmc @ Meas. Temp	1.20 @ 89F
Source of Rmf / Rmc	MEASURED
Rim @ BHT	0.73 @ 122F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	122F
Equipment Number	860
Location	HAYS, KS.
Recorded By	JEFF GRONEWEG
Witnessed By	MARC DOWNING

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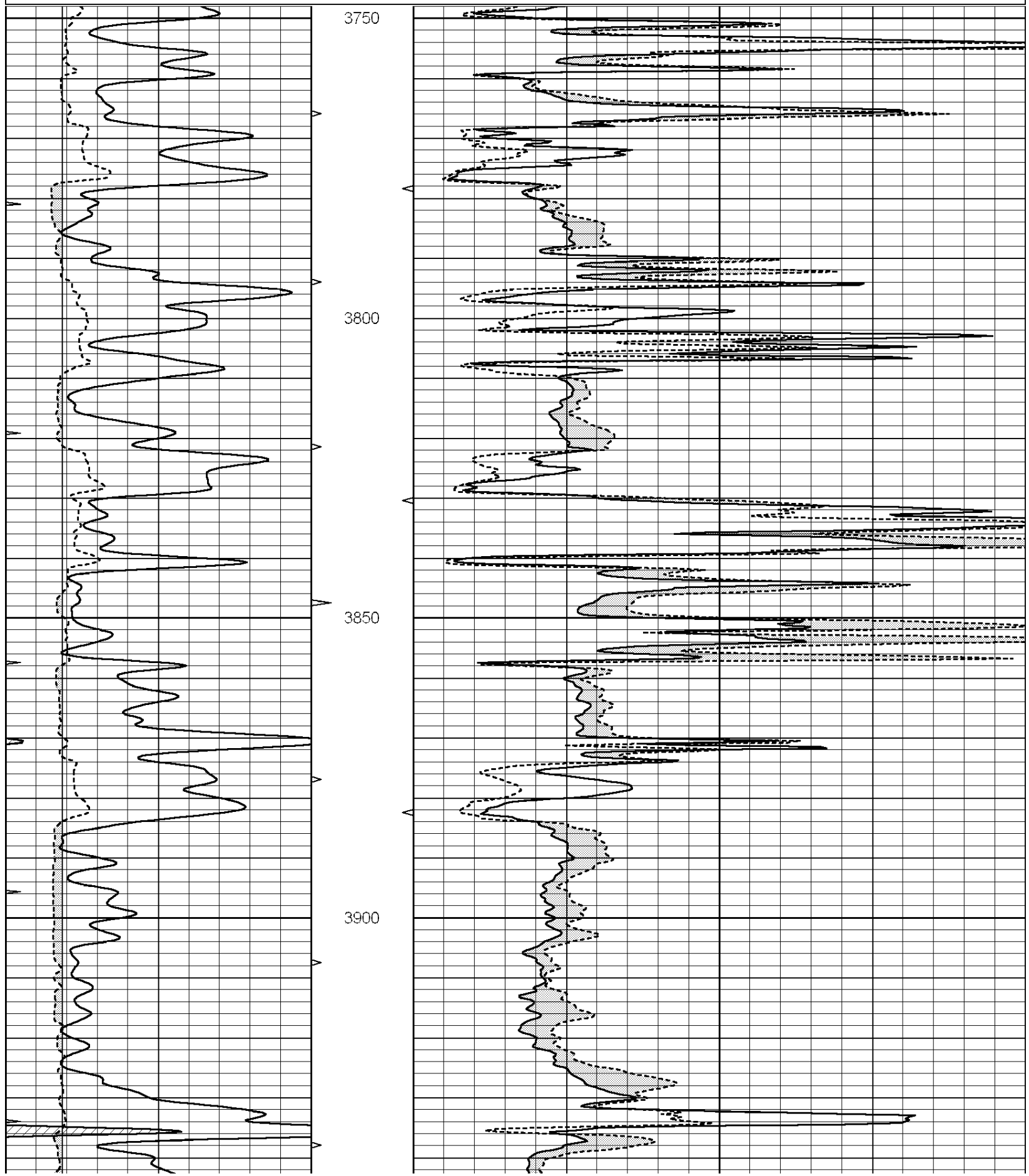
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

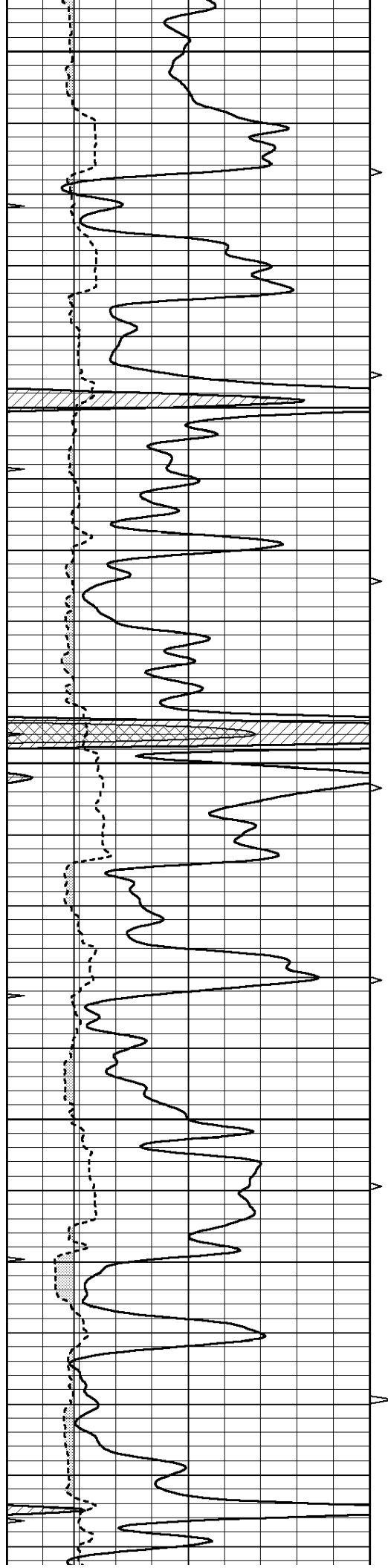
Comments

NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: CAMPUS, KS - 8 MILES NORTH TO RD H - 4 MILES WEST TO RD 32
1/2 MILE NORTH - EAST 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





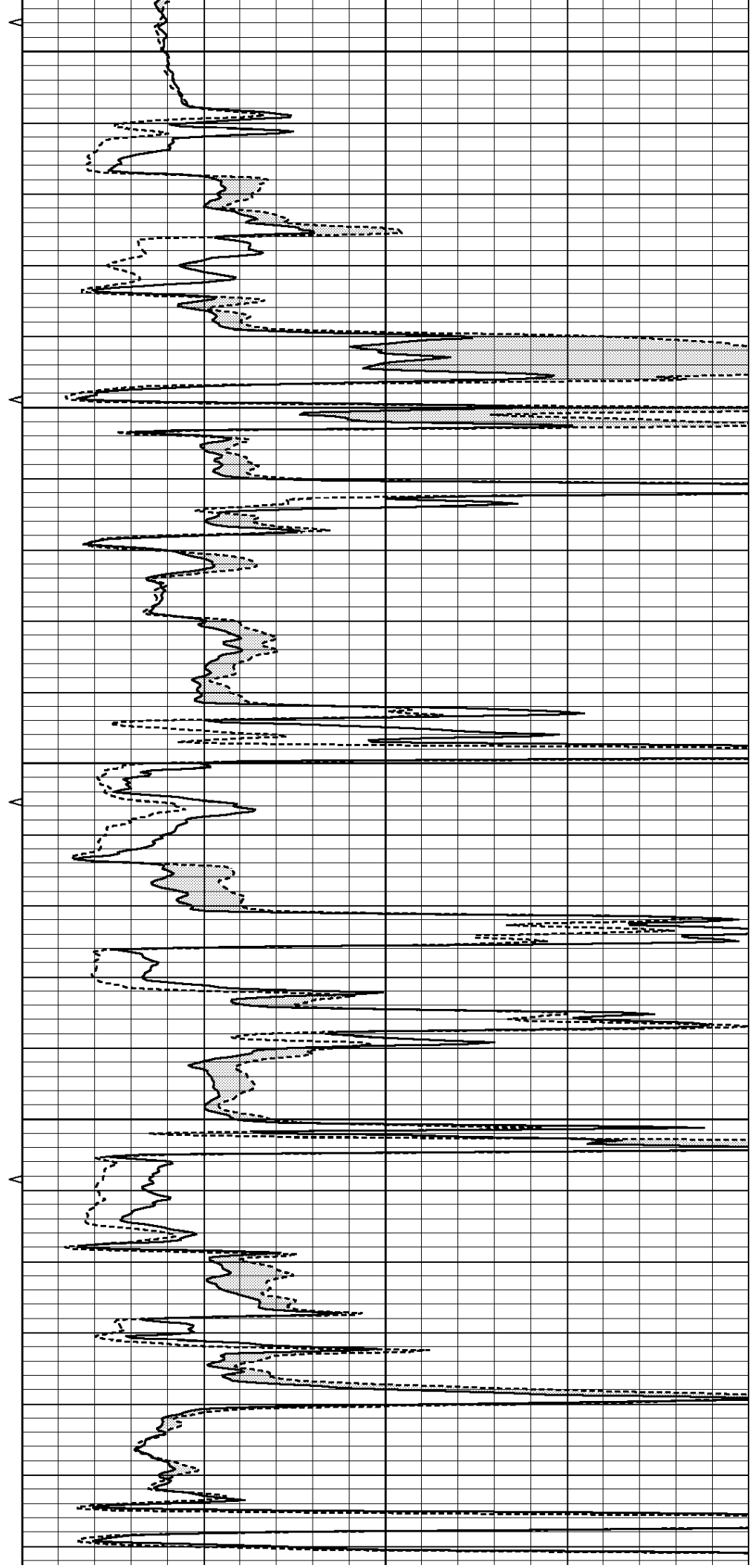
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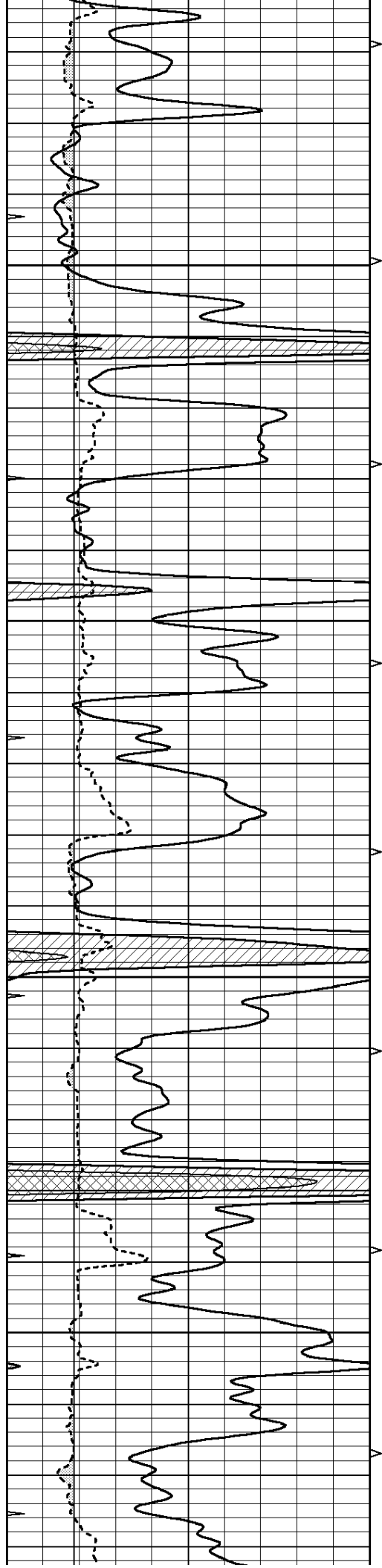
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4050

4100

4150



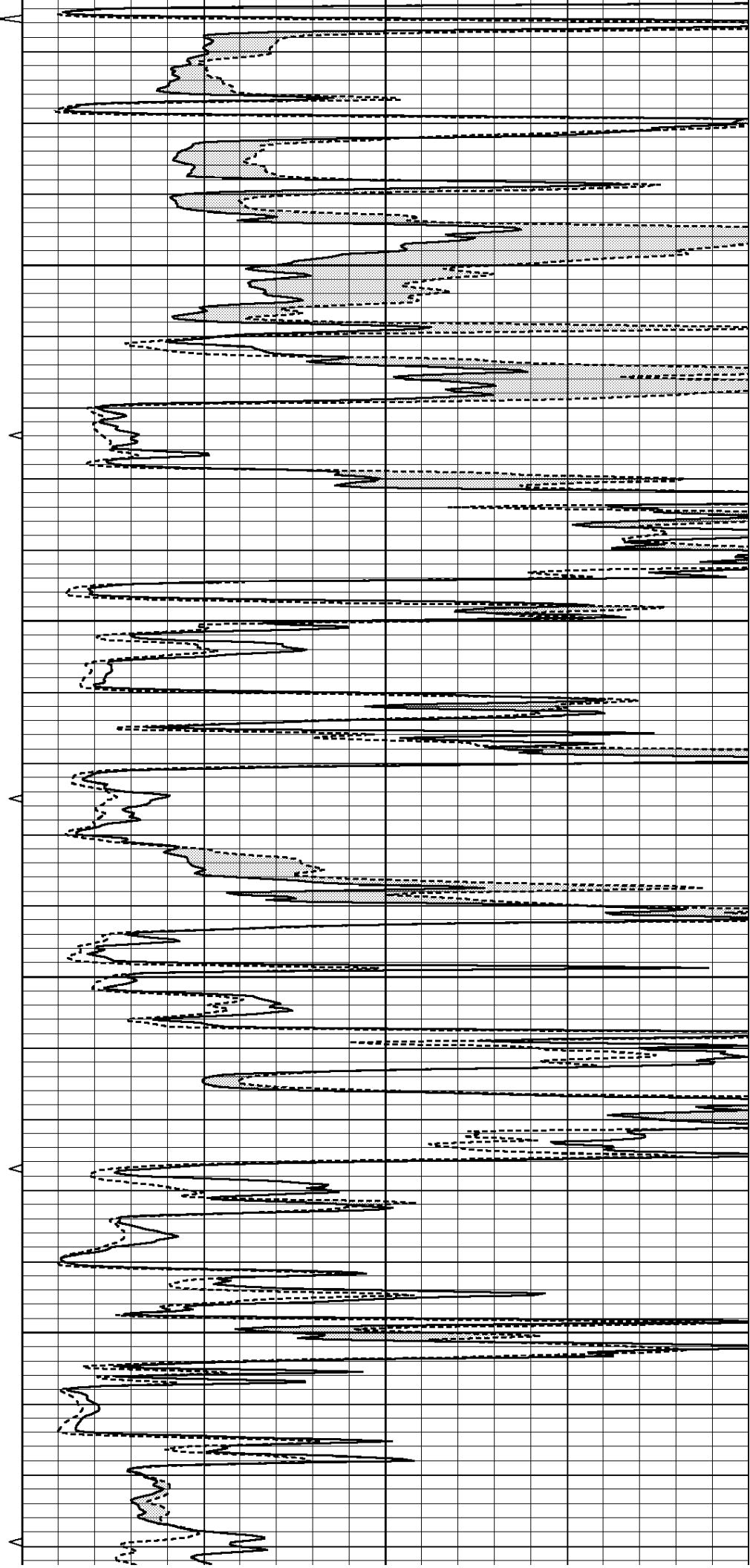


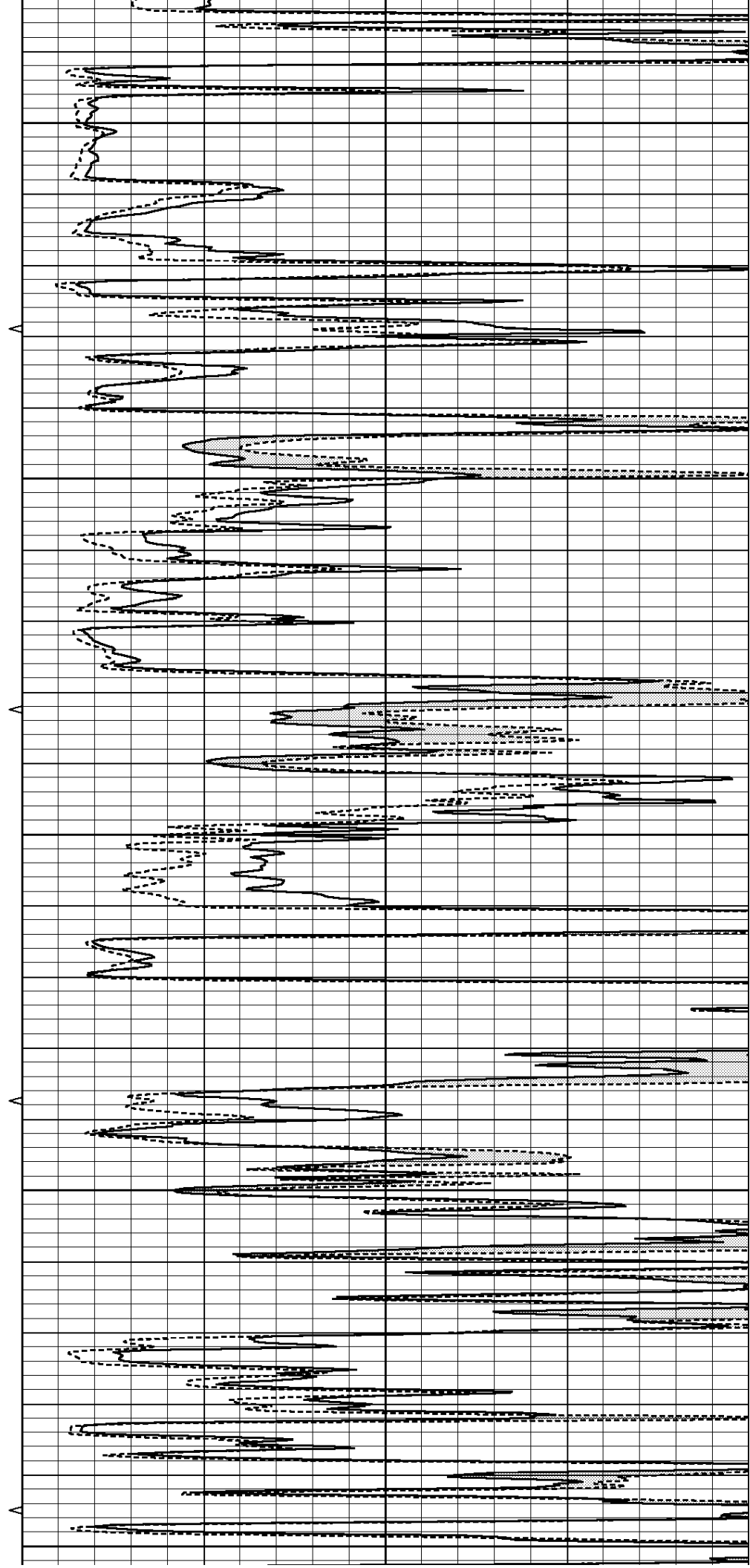
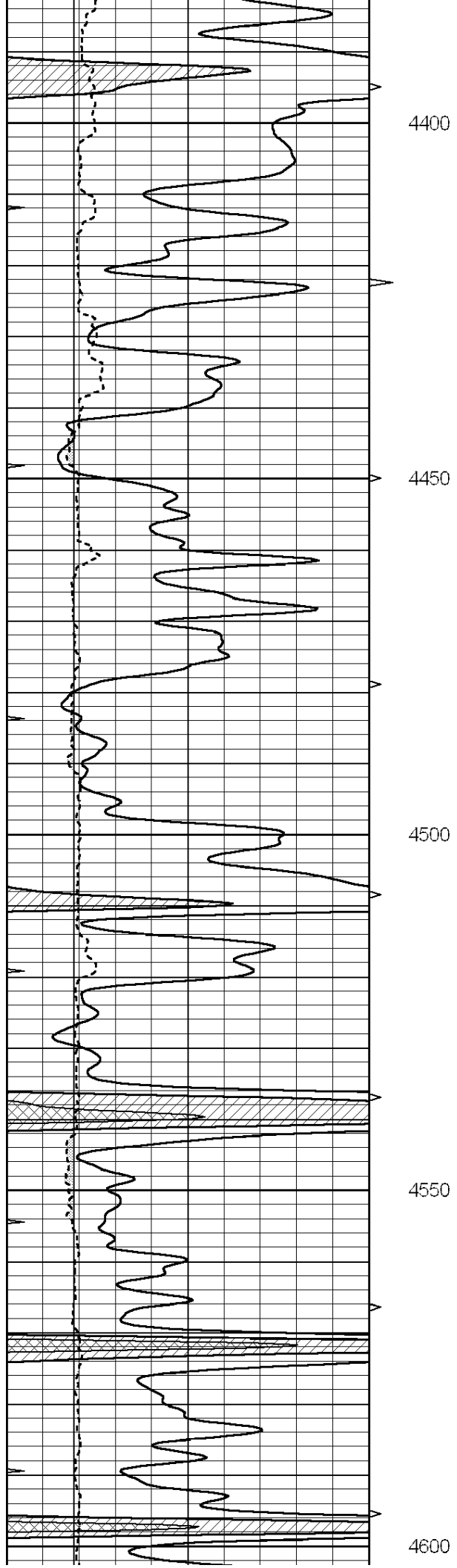
4200

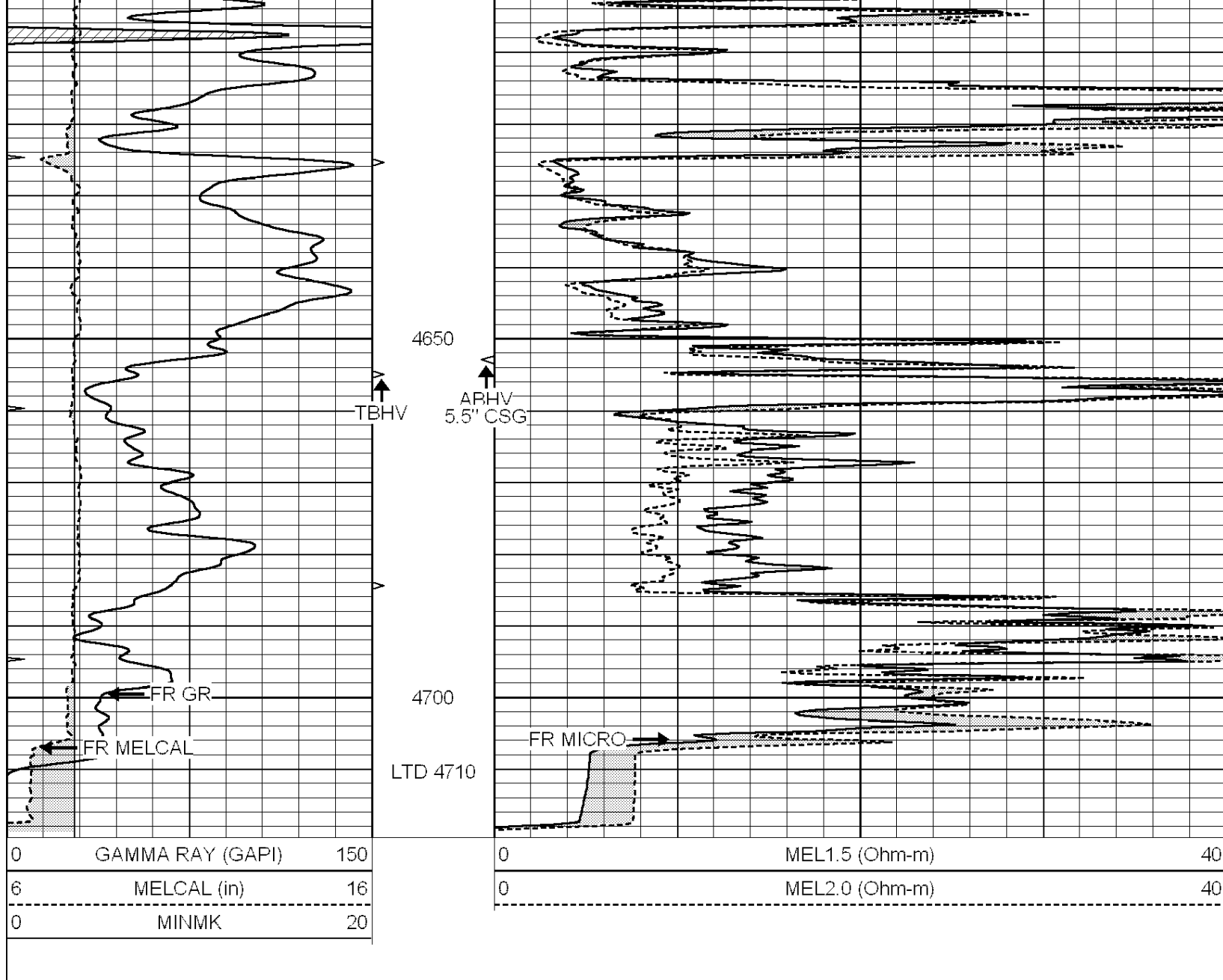
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4300

4350



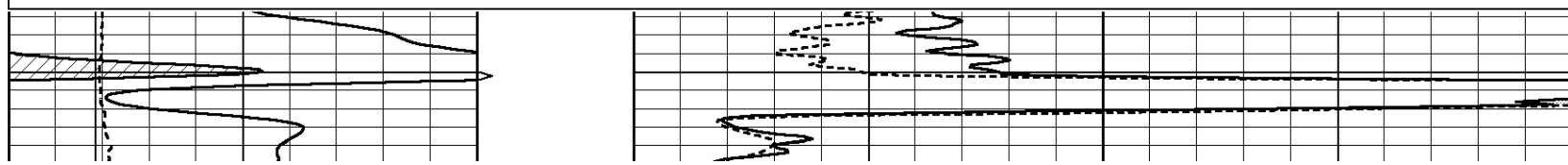


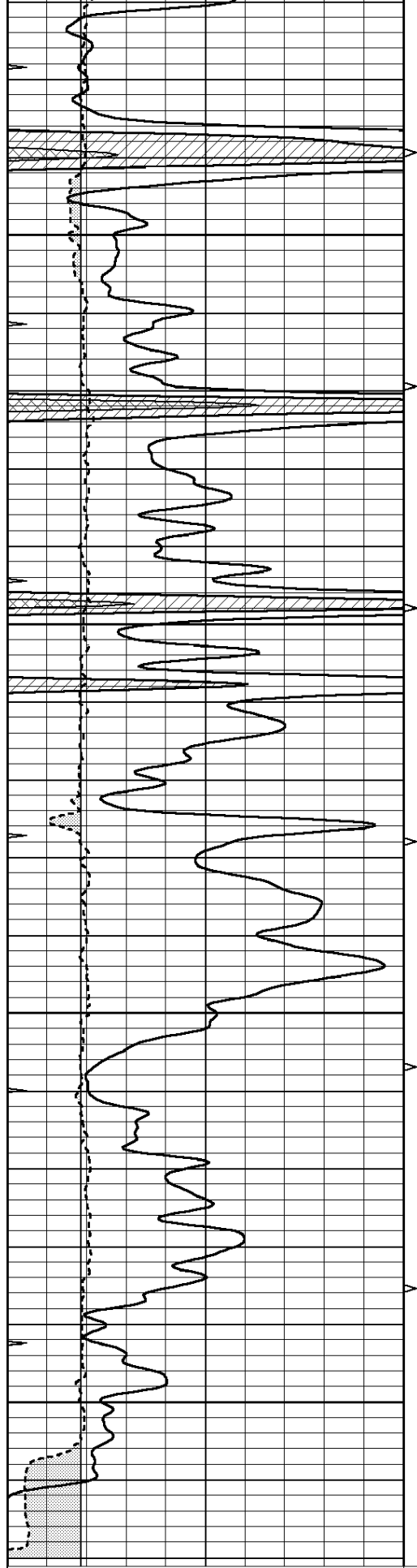


REPEAT SECTION

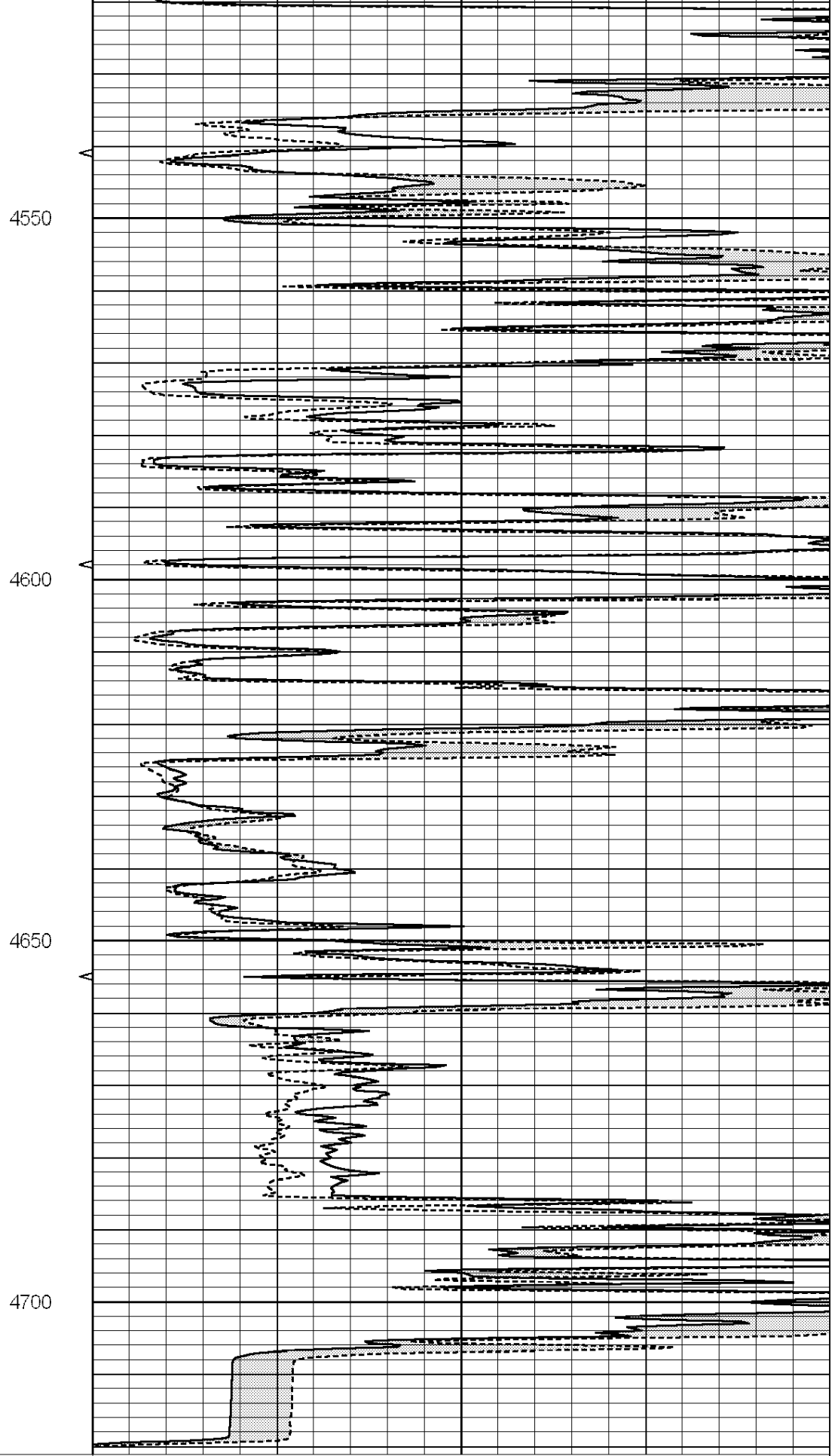
Database File: 010206ddn.db
 Dataset Pathname: pass4.4
 Presentation Format: _micro
 Dataset Creation: Fri Sep 27 15:49:30 2013 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0	MEL1.5 (Ohm-m)	40
6	MELCAL (in)	16	0	MEL2.0 (Ohm-m)	40
0	MINMK	20			





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: 010206ddn.db
 Dataset Pathname: pass5.3
 Dataset Creation: Fri Sep 27 16:17:44 2013 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO4
 Tool Model: PROBE
 Performed: Thu Aug 29 13:43:37 2013

Caliper Calibration:	Gain=1.800	Offset=-2.400
	Low Cal	High Cal
References	8.600	14.000
Readings	5.584	7.602

1.5" Calibration:	Gain=30.000	Offset=-0.500
	Low Cal	High Cal
References	0.000	20.000
Readings	0.009	1.541

2" Calibration:	Gain=31.000	Offset=-0.500
	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: Wed Sep 04 17:51:54 2013

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.9500	GAPI/cps