



**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company	MAI OIL OPERATIONS, INC.	Company	MAI OIL OPERATIONS, INC.
Well	DIREEN - WAGNER UNIT #1	Well	DIREEN - WAGNER UNIT #1
Field	CARROLL	Field	CARROLL
County	BARTON	County	BARTON
State	KANSAS	State	KANSAS
Location:	API # : 15-009-25751-0000	Other Services	CDL/CNL DIL
Permanent Datum	GROUND LEVEL	Elevation	1864
Log Measured From	KELLY BUSHING 8' A.G.L.	K.B.	1872
Drilling Measured From	KELLY BUSHING	D.F.	1870
	SEC 29 TWP 17S RGE 14W	G.L.	1864

Date	10/3/12
Run Number	TWO
Depth Driller	3451
Depth Logger	3450
Bottom Logged Interval	3448
Top Log Interval	2700
Casing Driller	8 5/8"@850'
Casing Logger	850
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.3/52
pH / Fluid Loss	9.0/10.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.850@80F
Rmt @ Meas. Temp	.636@80F
Rmc @ Meas. Temp	1.02@80F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.613@111F
Time Circulation Stopped	3.5 HOURS
Time Logger on Bottom	1:15 A.M.
Maximum Recorded Temperature	111F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	JIM MUSGROVE

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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

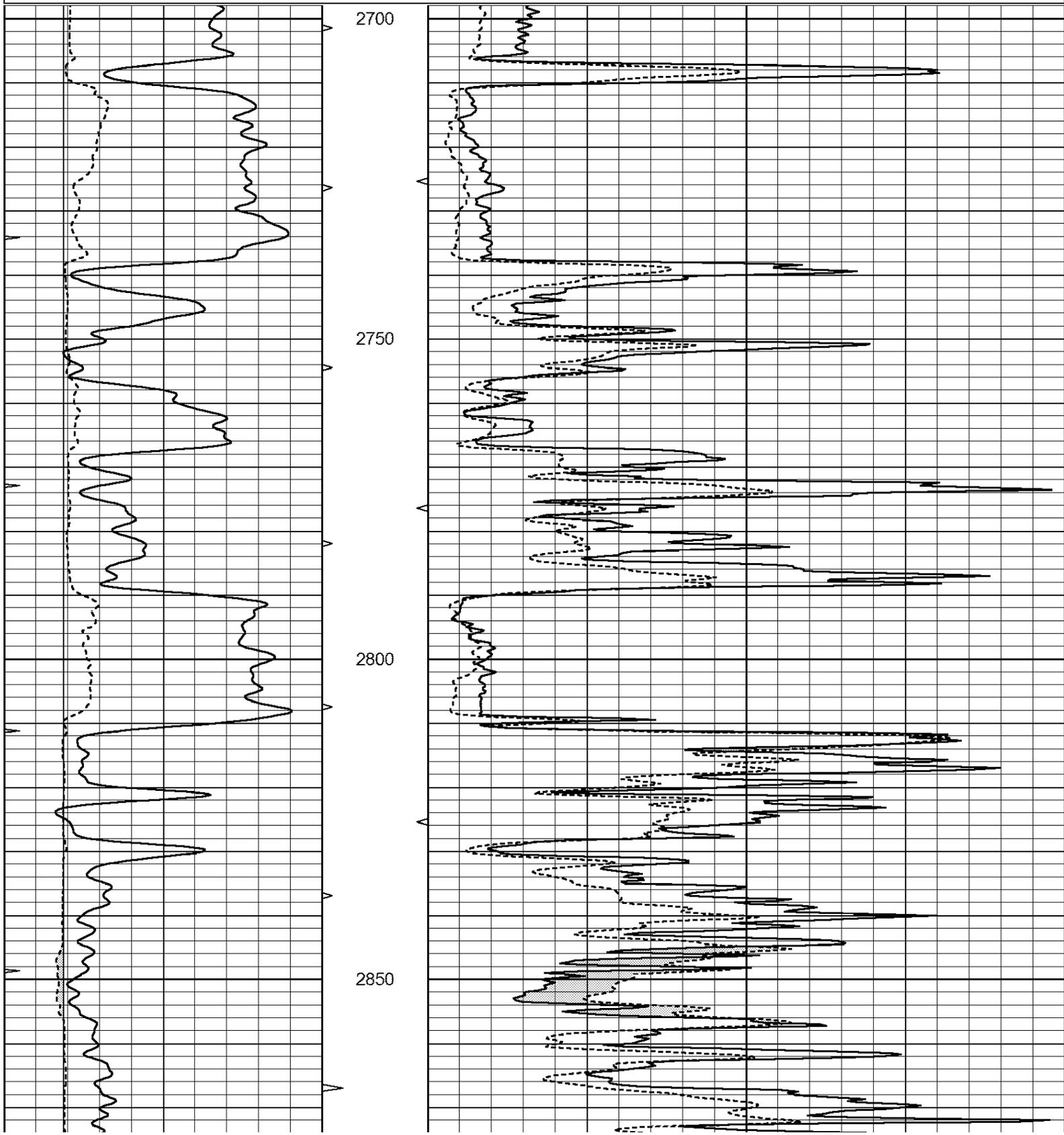
THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
W. OF HOISINGTON, KS. (HWY 281 & 4) 3W. ON HWY 4, 1N., 1/2E., 1/4S., E. SIDE OF RD.

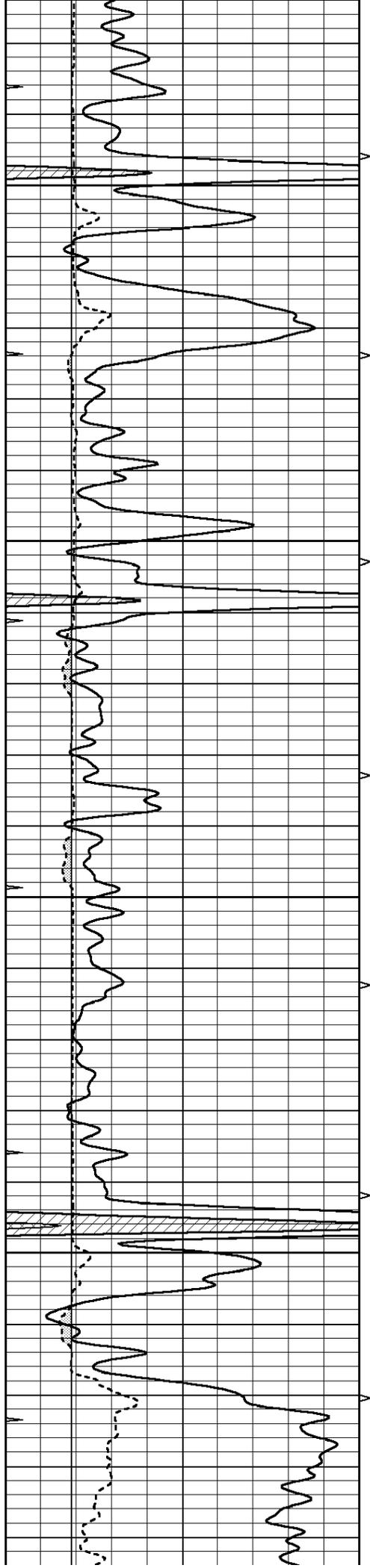


MAIN SECTION

Database File: 409686ddn.db
 Dataset Pathname: pass6.2
 Presentation Format: micro
 Dataset Creation: Wed Oct 03 03:34:45 2012 by Calc Open-Cased 110302
 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		



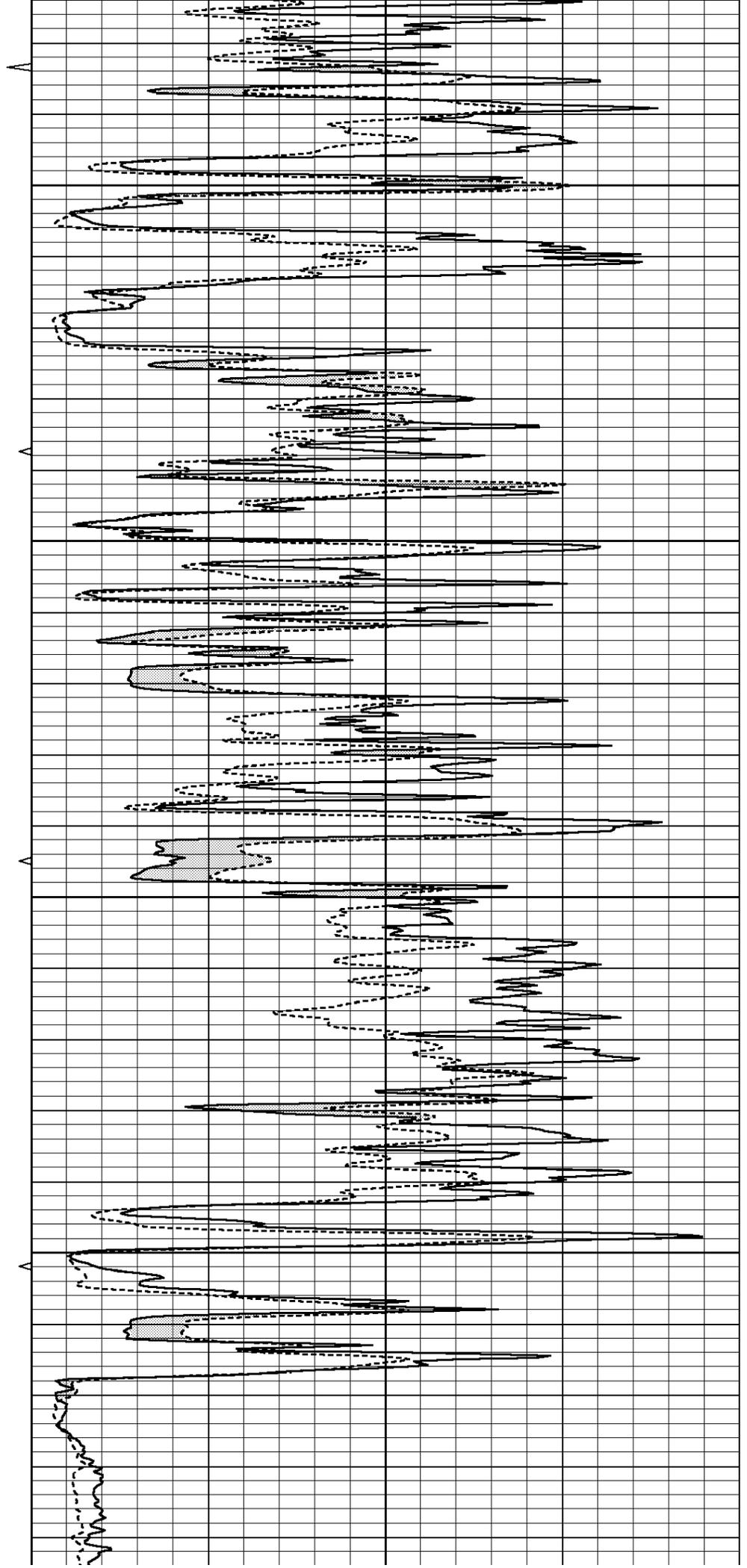


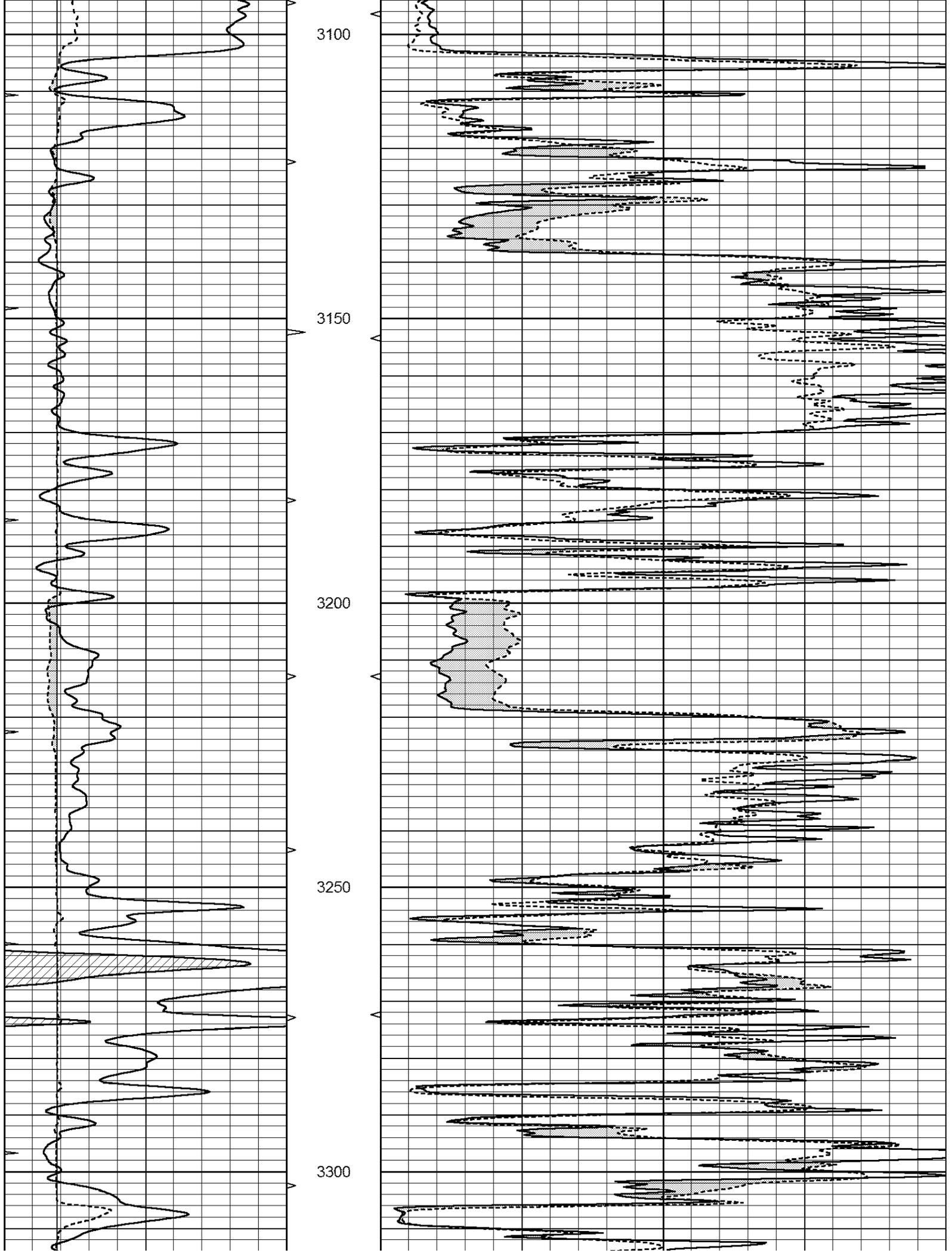
2900

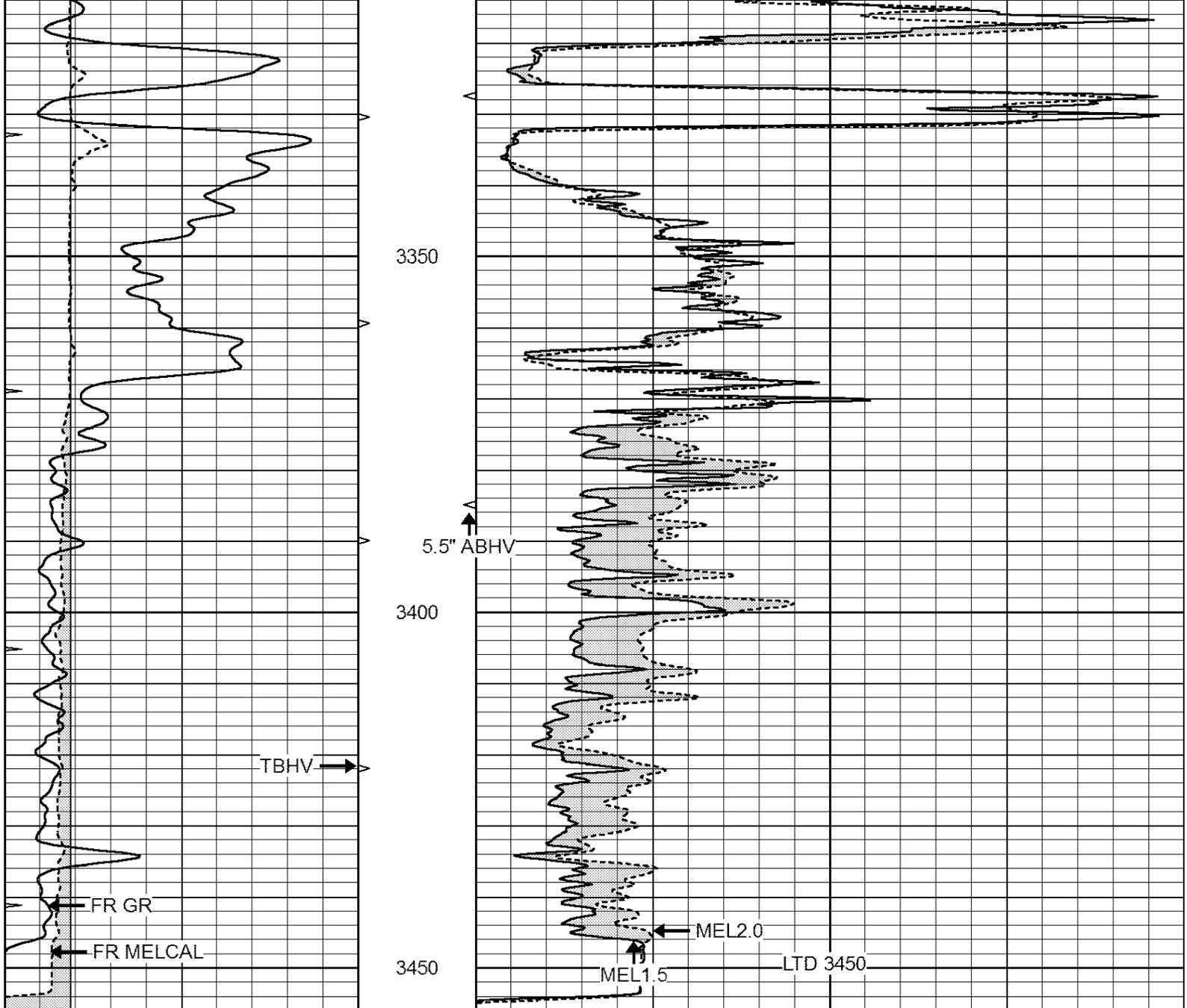
2950

3000

3050







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
0	MINMK	20	TBHV			
			0 (ft3)	10		

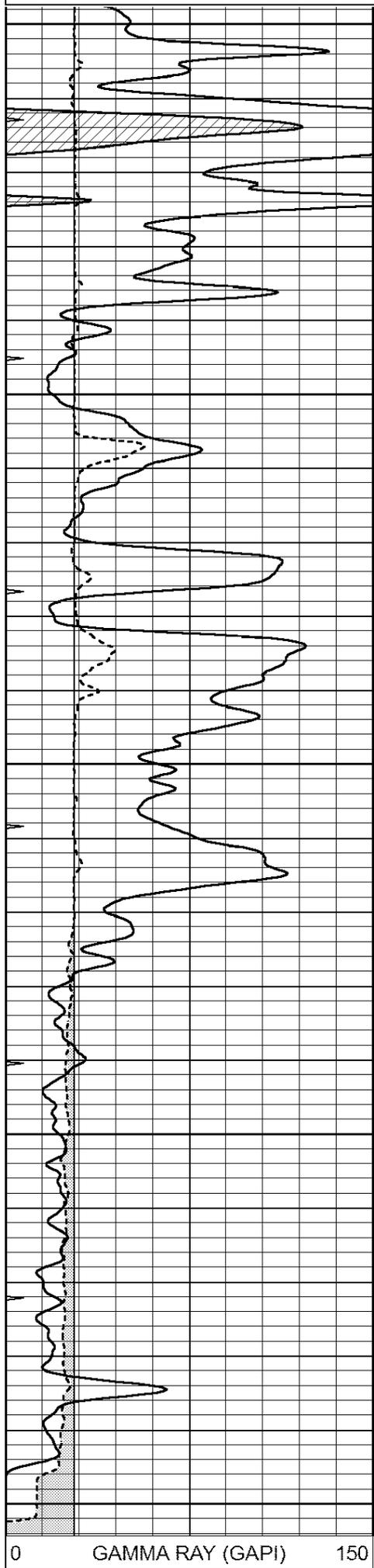


REPEAT SECTION

Database File: 409686ddn.db
 Dataset Pathname: pass5.7
 Presentation Format: micro
 Dataset Creation: Wed Oct 03 03:20:37 2012 by Calc Open-Cased 110302
 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
0	MINMK	20	TRHV			

0 (ft) 10



3250

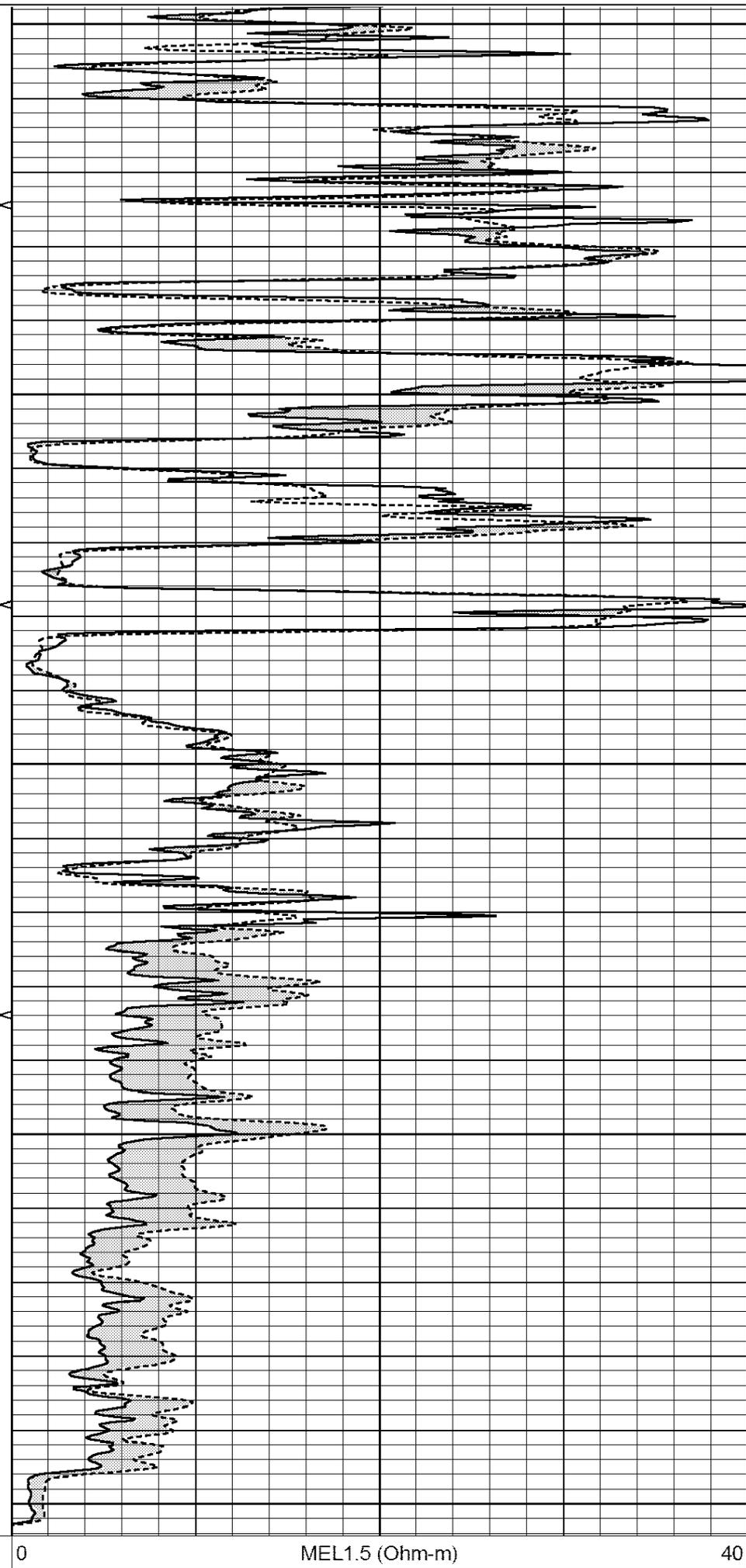
3300

3350

3400

3450

ABHV



6	CALIPER (in)	16	10 (ft3)	0	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV				
			0 (ft3)	10			

Calibration Report

Database File: 409686ddn.db
 Dataset Pathname: pass6.2
 Dataset Creation: Wed Oct 03 03:34:45 2012 by Calc Open-Cased 110302

MICRO Calibration Report

Serial Number: 2
 Tool Model: PROBE
 Performed: Fri Sep 21 12:07:49 2012

Caliper Calibration:	Gain=3.988	Offset=3.692
	Low Cal	High Cal
References	8.200	15.000
Readings	1.130	2.835

1.5" Calibration:	Gain=30.000	Offset=-0.500
	Low Cal	High Cal
References	0.000	20.000
Readings	0.065	1.210

2" Calibration:	Gain=55.000	Offset=-1.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.012	1.043

Gamma Ray Calibration Report

Serial Number: GR4
 Tool Model: OPEN
 Performed: Wed Oct 03 03:00:28 2012

Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	1.1500	GAPI/cps