



MICRO LOG

Company	MAI OIL OPERATIONS, INC.	Company	MAI OIL OPERATIONS, INC.
Well	MORGENSTERN-HERRES UNIT #1	Well	MORGENSTERN-HERRES UNIT #1
Field	McCAULEY	Field	McCAULEY
County	BARTON	County	BARTON
State	KANSAS	State	KANSAS
Location:		API # : 15-009-26186-00-00	Other Services CDL/CNL DIL
Permanent Datum Log Measured From Drilling Measured From		SEC 34 TWP 17S RGE 13W 438' FSL & 107' FWL GROUND LEVEL KELLY BUSHING 8' A.G.L. KELLY BUSHING	Elevation K.B. 1875' D.F. 1873' G.L. 1867'
Date	09/24/17		
Run Number	TWO		
Depth Driller	3435		
Depth Logger	3435		
Bottom Logged Interval	3433		
Top Log Interval	2700		
Casing Driller	8 5/8" @ 453		
Casing Logger	453		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8000 PPM	
Density / Viscosity	9.2/53		
pH / Fluid Loss	10.5/10.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.1@78		
Rmt @ Meas. Temp	.83@78		
Rmc @ Meas. Temp	1.32@78		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.77@111		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	111F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	JIM MUSGROVE		

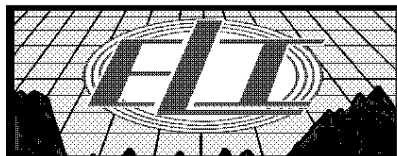
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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 ELI WIRELINE, HAYS, KS. (785) 628-6395

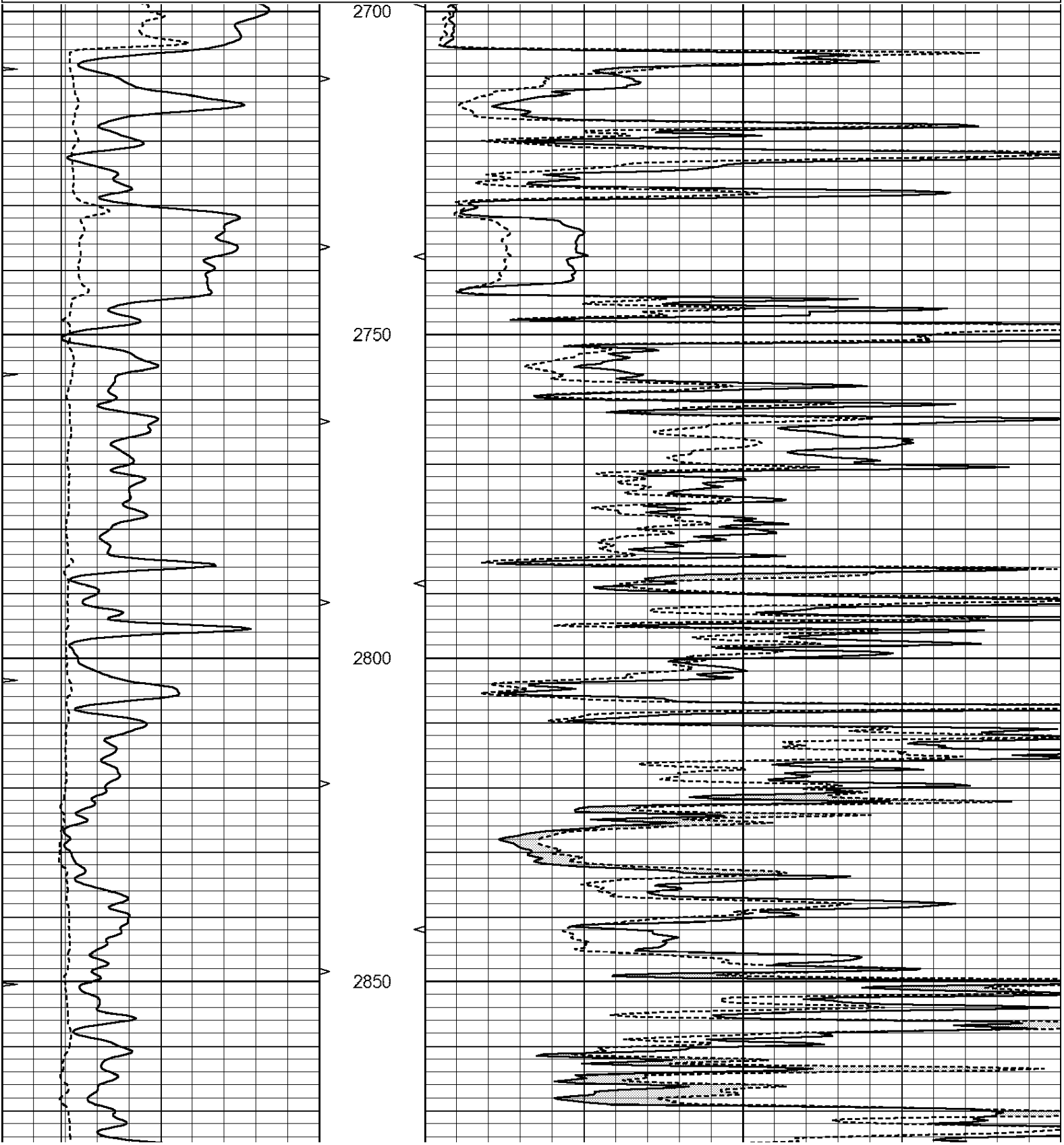
DIRECTIONS
1 EAST OF HOISINGTON,
1/4 NORTH, EAST INTO.

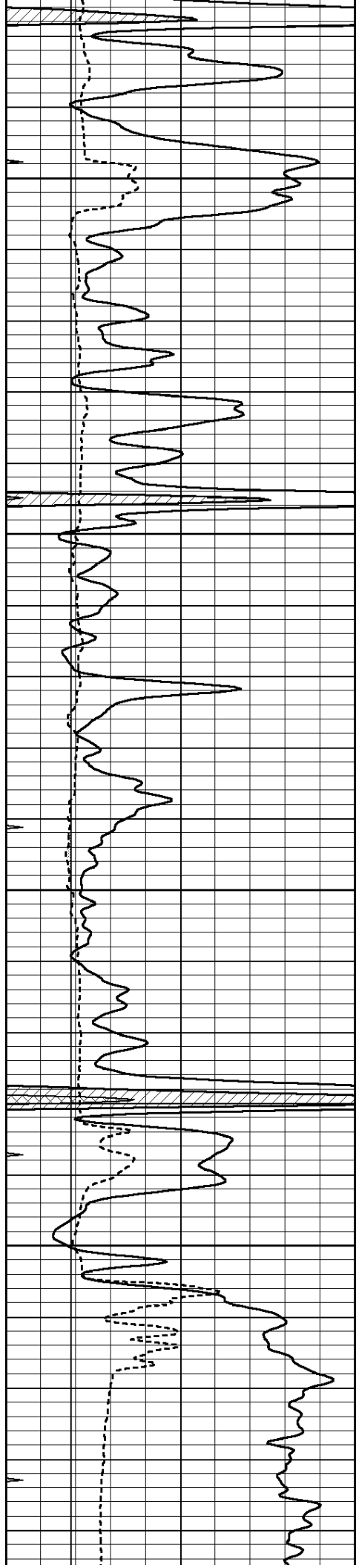


MAIN PASS

Database File: 1824ddn.db
Dataset Pathname: pass6
Presentation Format: _micro
Dataset Creation: Sun Sep 24 17:32:26 2017 by Log 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 0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		



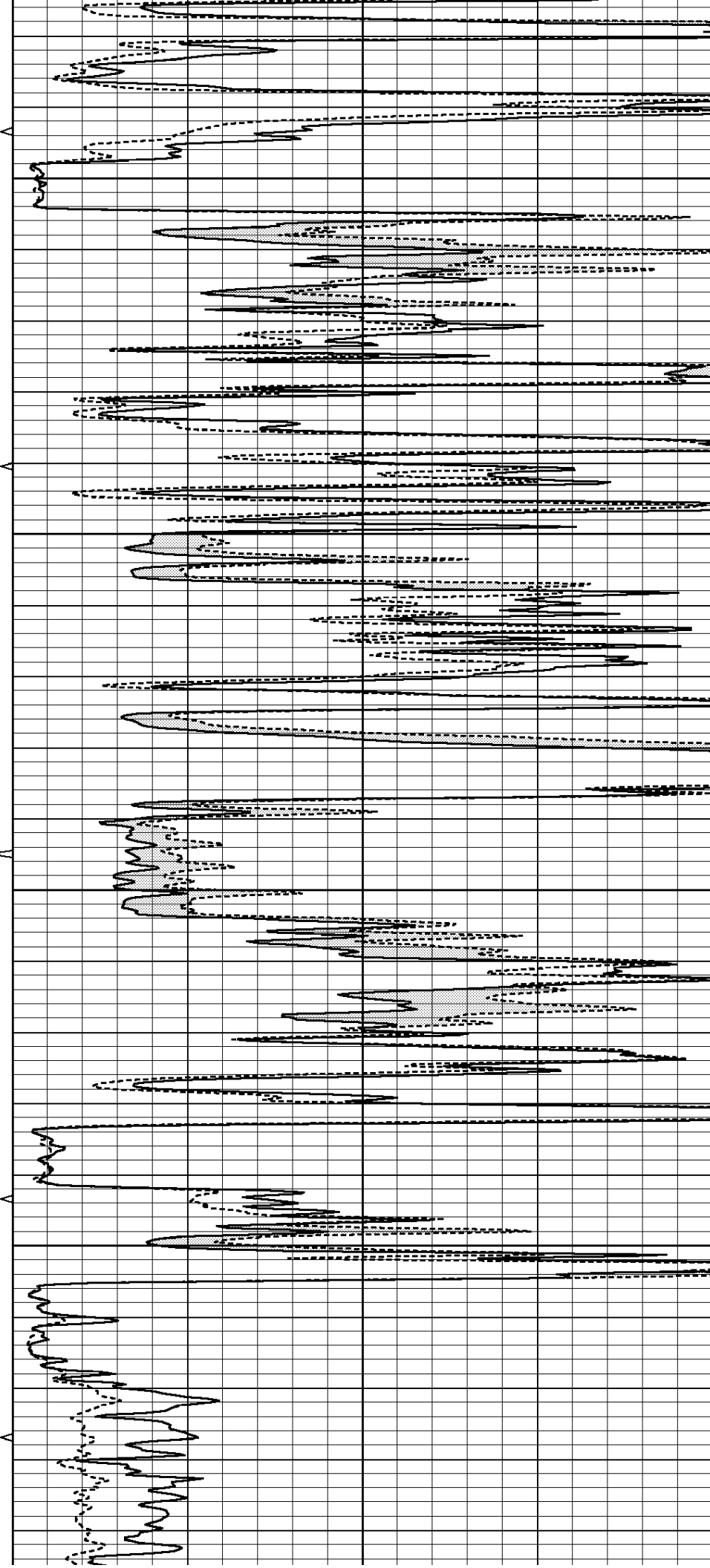


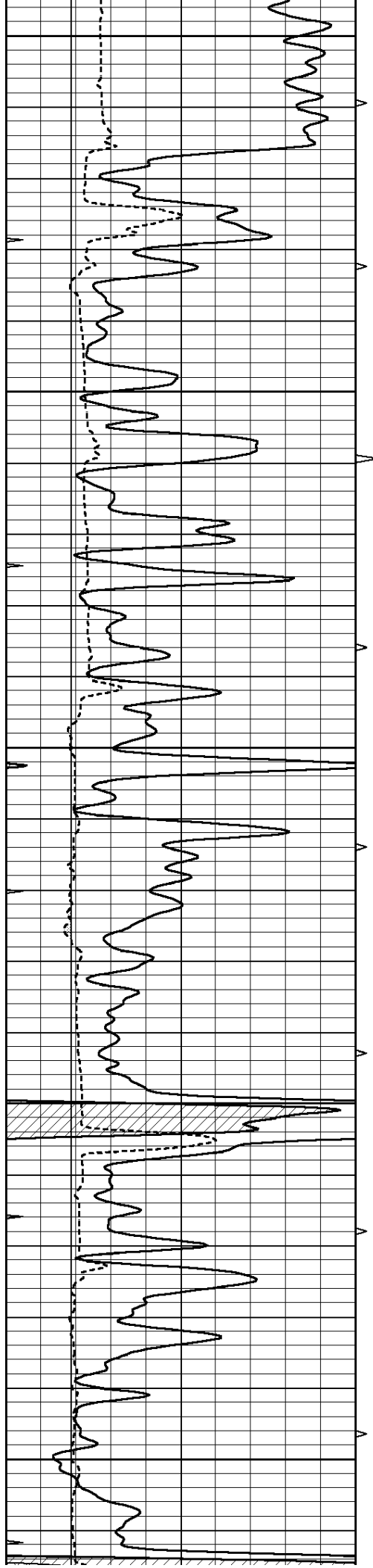
2900

2950

3000

3050





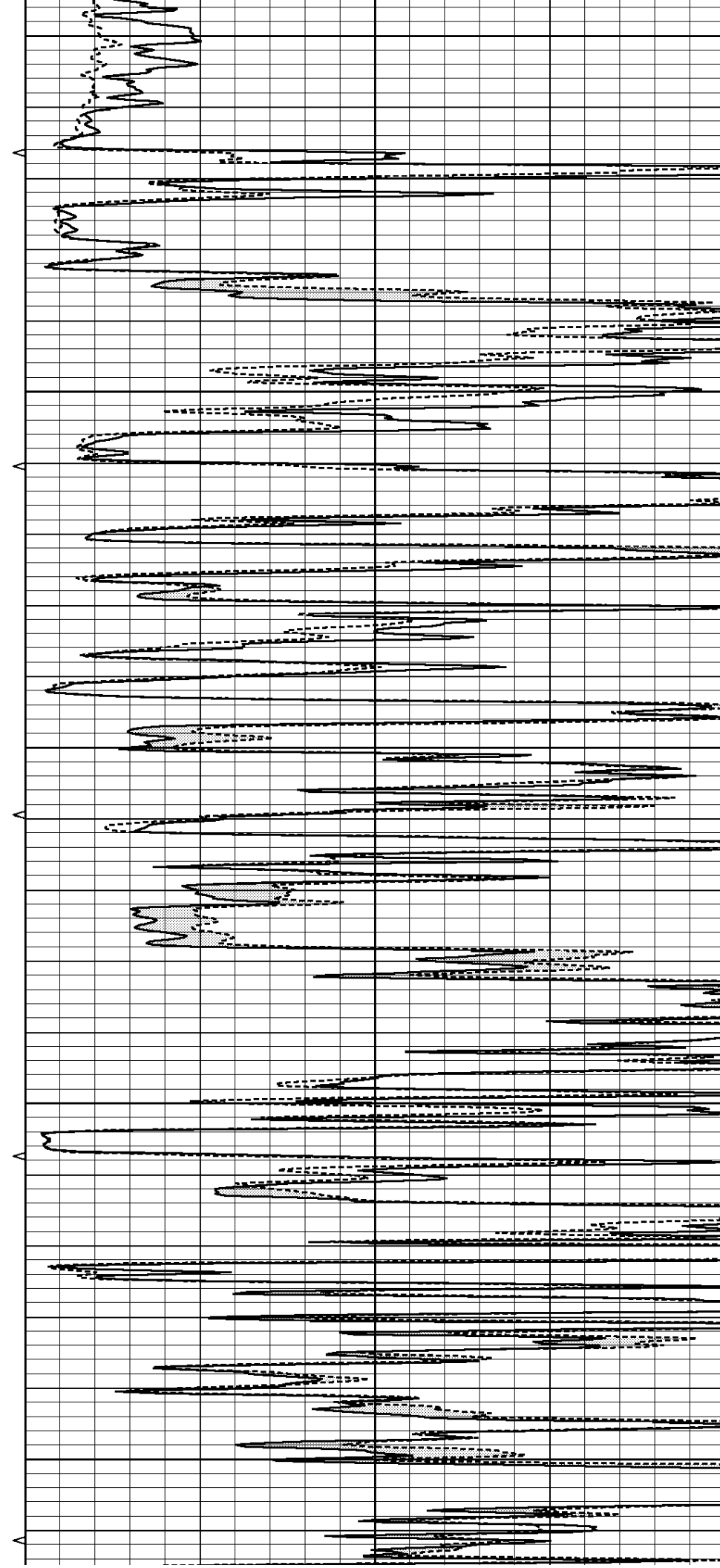
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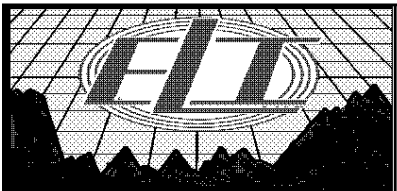
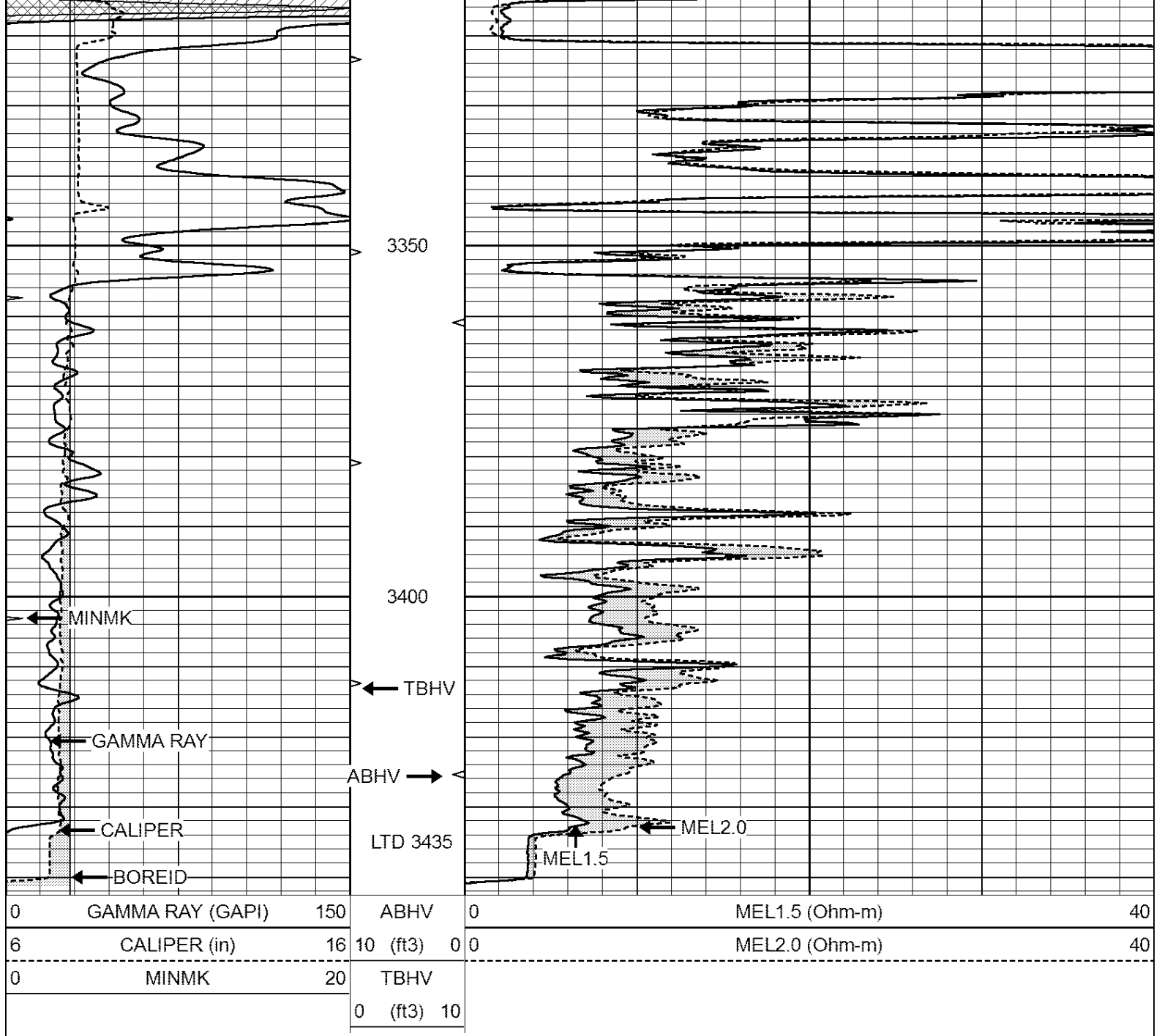
3150

3200

3250

3300

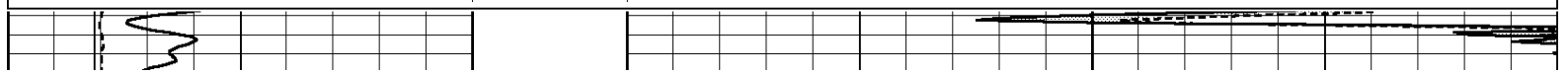


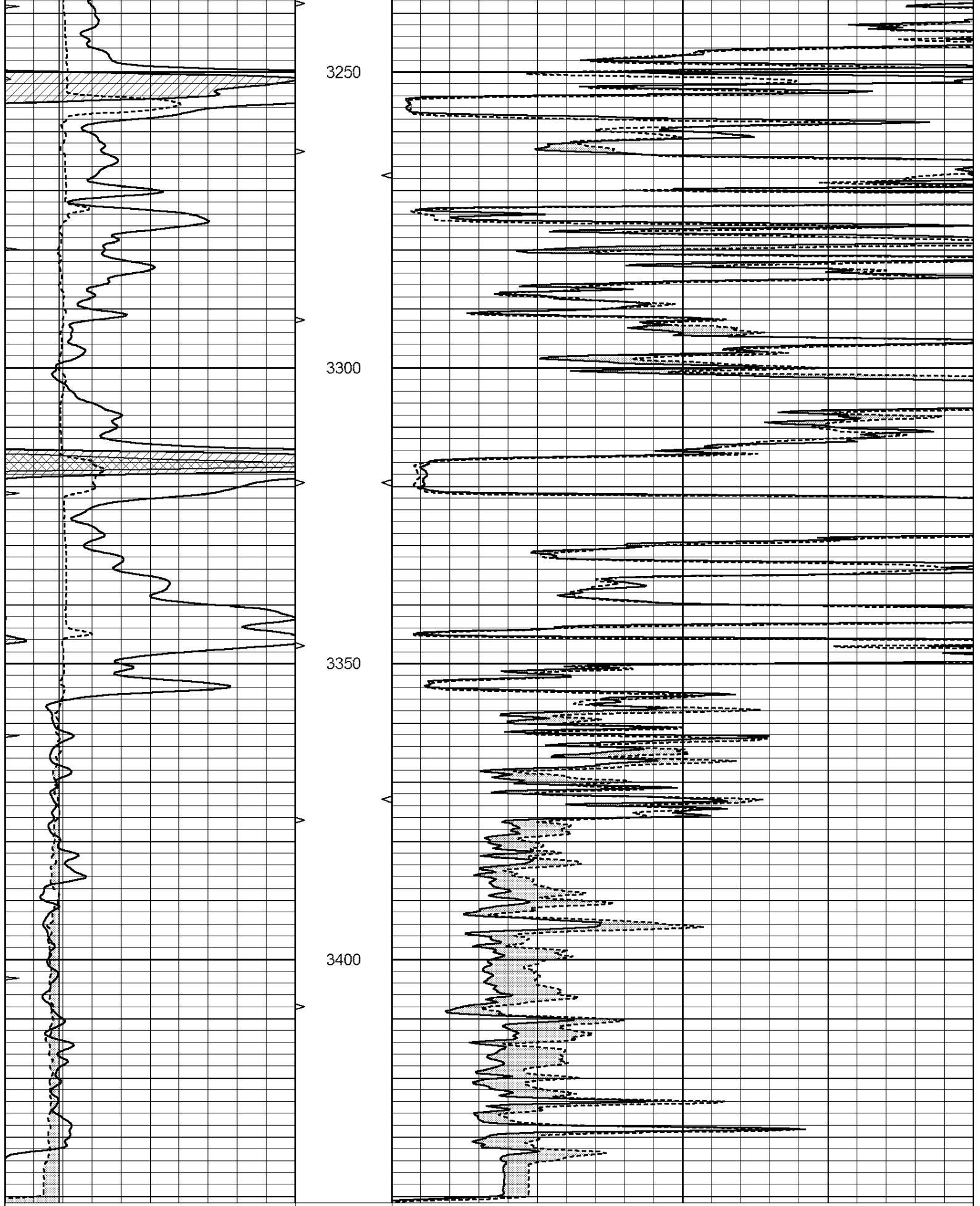


REPEAT SECTION

Database File: 1824ddn.db
 Dataset Pathname: pass4
 Presentation Format: _micro
 Dataset Creation: Sun Sep 24 17:21:28 2017 by Log 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		





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 (#2) 10			

Calibration Report

Database File: 1824ddn.db
 Dataset Pathname: pass4
 Dataset Creation: Sun Sep 24 17:21:28 2017 by Log Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO6
 Tool Model: PROBE
 Performed: Wed Aug 16 17:13:39 2017

Caliper Calibration: Gain=3.960 Offset=4.551

	Low Cal	High Cal
References	7.000	14.000
Readings	0.555	2.323

1.5" Calibration: Gain=38.075 Offset=-0.400

	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	1.196

2" Calibration: Gain=48.000 Offset=-1.000

	Low Cal	High Cal
References	0.000	20.000
Readings	0.006	0.913

Gamma Ray Calibration Report

Serial Number: GR2
 Tool Model: OPEN
 Performed: Wed Aug 16 17:13:40 2017

Calibrator Value: 1.0 GAPI

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity: 0.3800 GAPI/cps