



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**MICRO
LOG**

Company		RL INVESTMENT, LLC.	
Well	HANNA #1-18		
Field			
County	GRAHAM	State	KANSAS
Location:	AP1 # : 15-065-23968-0000		Other Services CDL/CNL DIL
SEC 18 TWP 10S RGE 25W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2524
Log Measured From	KELLY BUSHING 8' A.G.L.		K.B. 2532 D.F. 2530 G.L. 2524
Drilling Measured From	KELLY BUSHING		
Date	8/27/12		
Run Number	TWO		
Depth Driller	4075		
Depth Logger	4075		
Bottom Logged Interval	4073		
Top Log Interval	3450		
Casing Driller	8 5/8" @ 219		
Casing Logger	217		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2300 PPM	
Density / Viscosity	9.2/48		
pH / Fluid Loss	10.0/8.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.75 @ 96F		
Rmt @ Meas. Temp	.56 @ 96F		
Rmc @ Meas. Temp	.90 @ 96F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.61 @ 117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	7:15 A.M.		
Maximum Recorded Temperature	117F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	RICHARD BELL		

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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, KS. (785) 628-6395
 DIRECTIONS:
 ST. PETER, KS. - JUST PAST PFEIFFER SERVICE (RD. E)
 3 W. - 1/8 S. - W. INTO



NABORS

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MAIN SECTION

Database File:

011592ddn.db

Dataset Pathname:

pass7.1

Presentation Format:

_micro

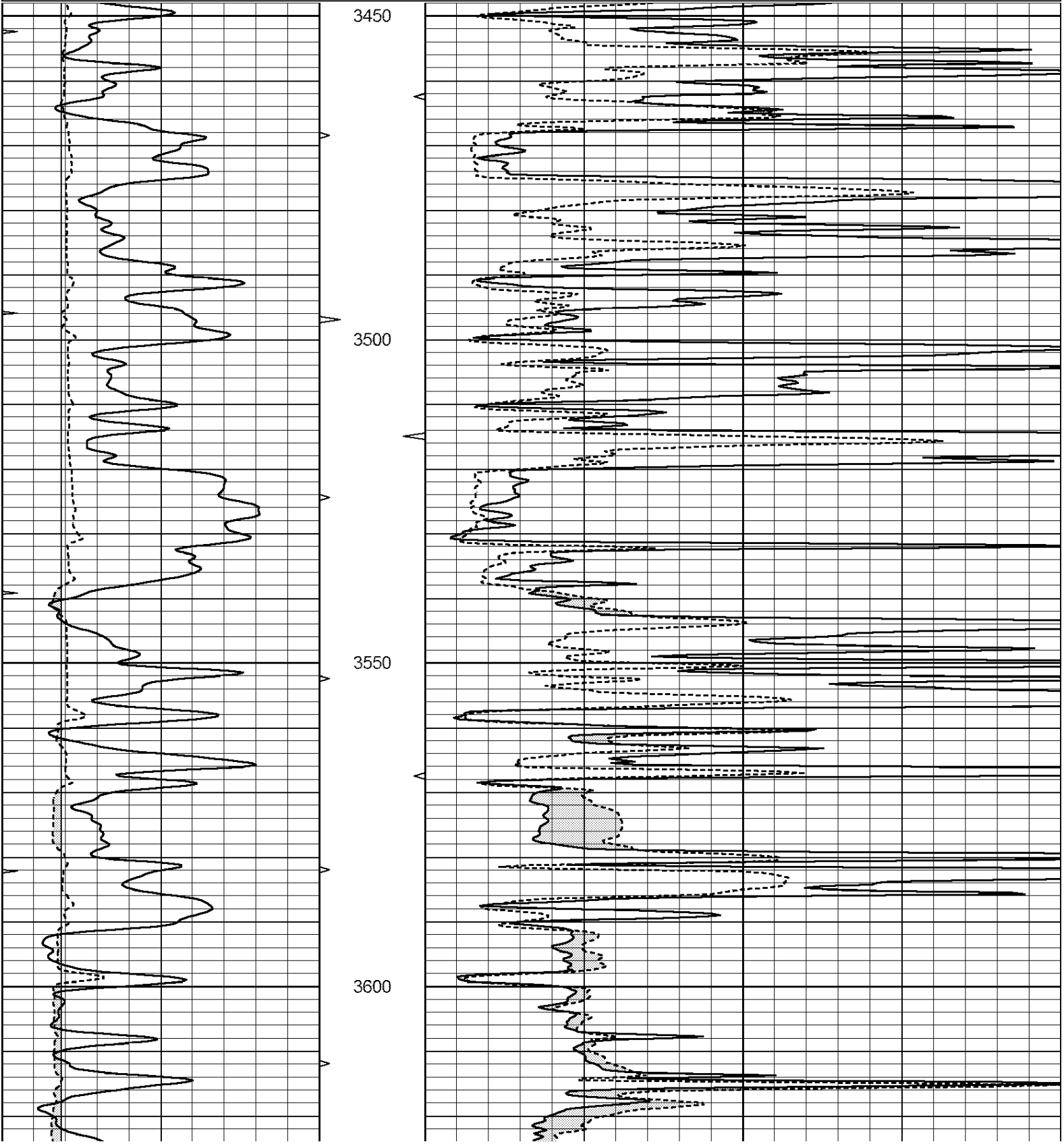
Dataset Creation:

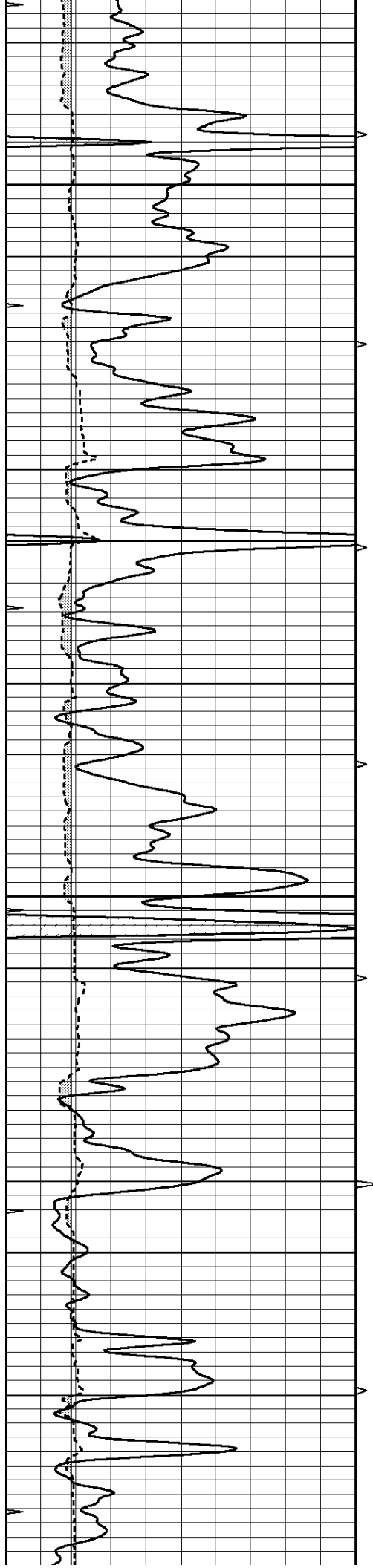
Tue Aug 27 09:53:27 2013 by Calc Open-Cased 090629

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		



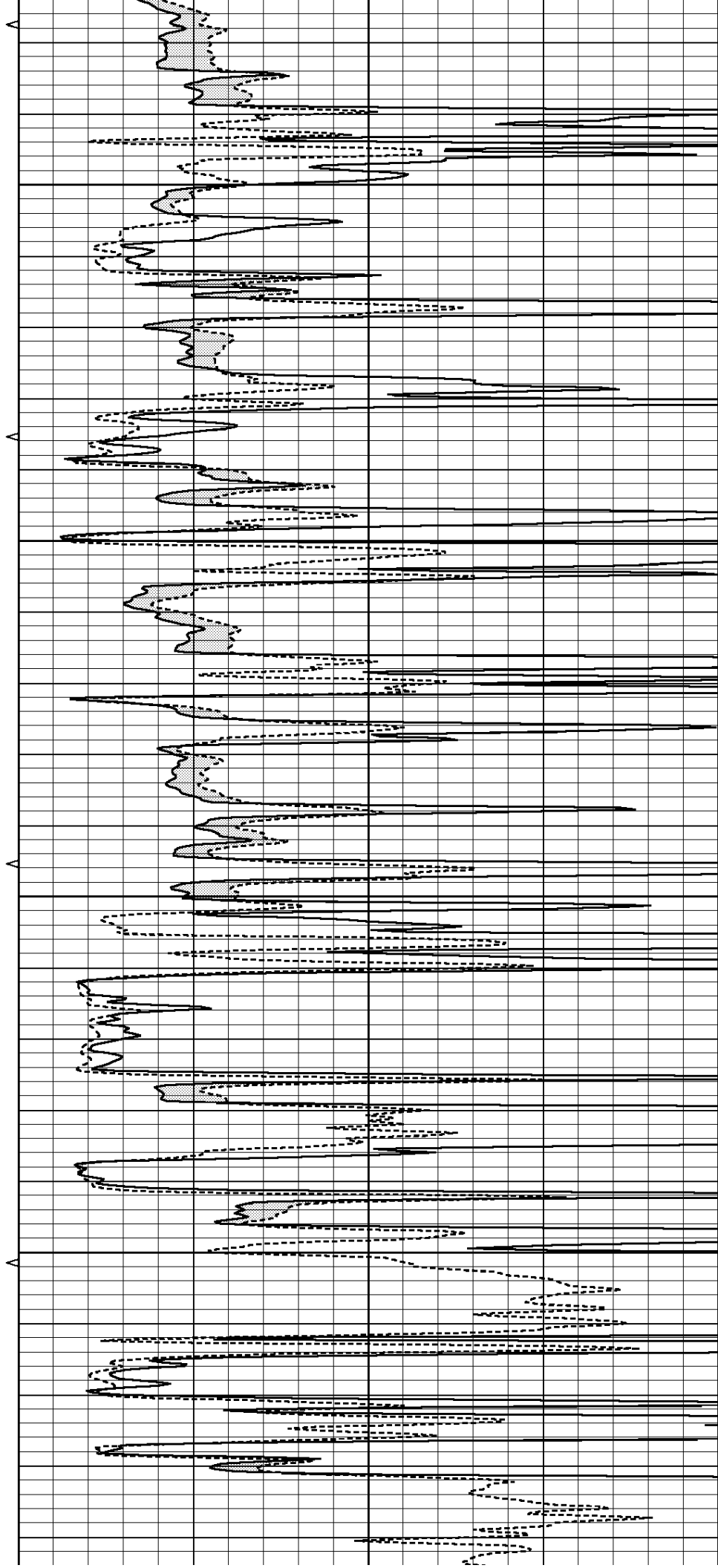


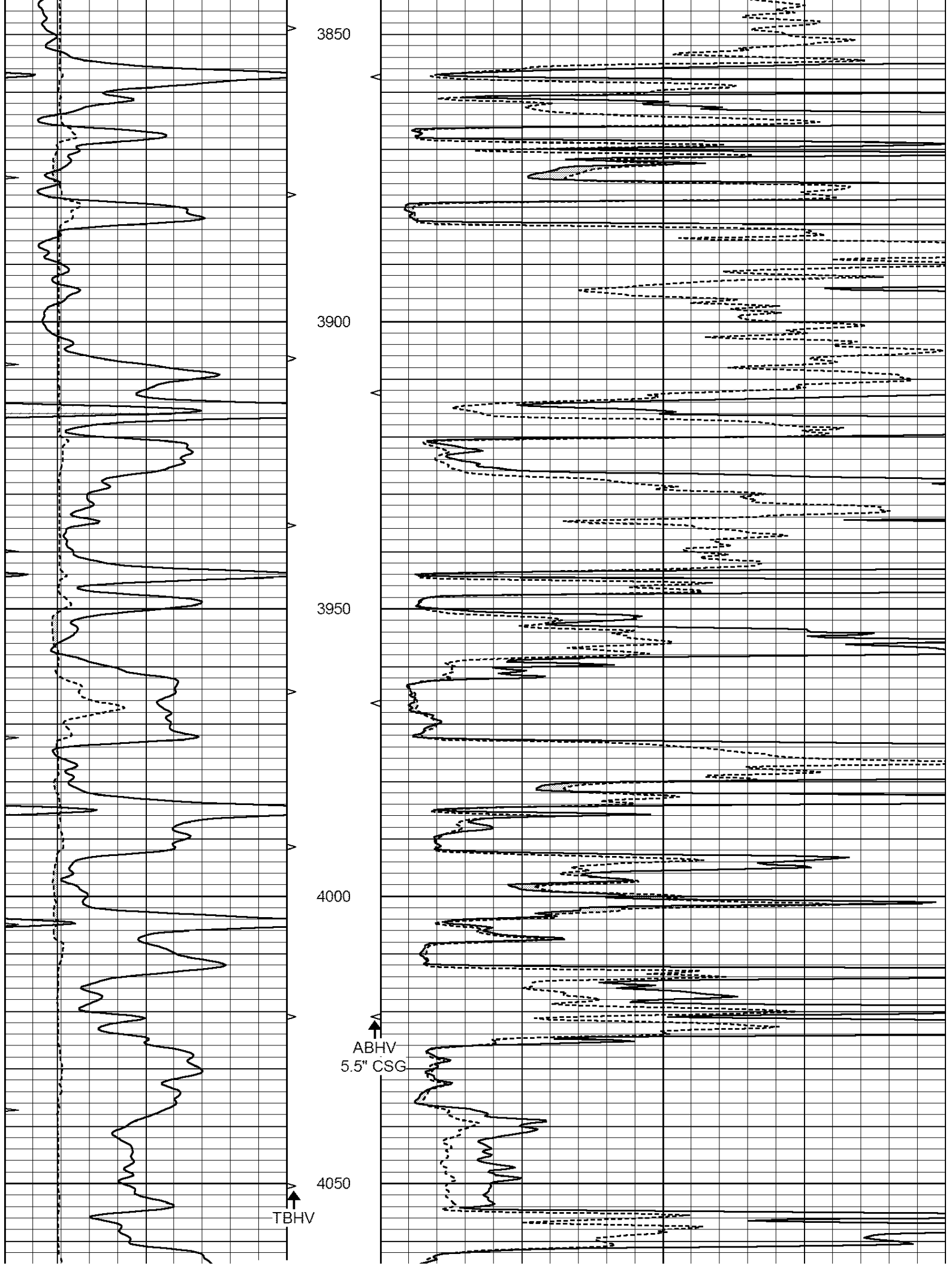
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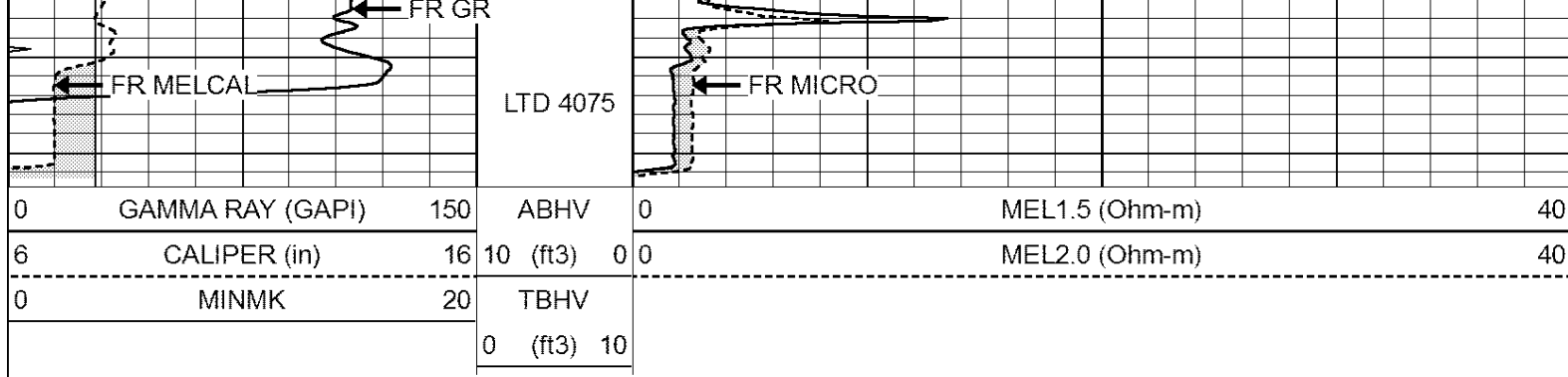
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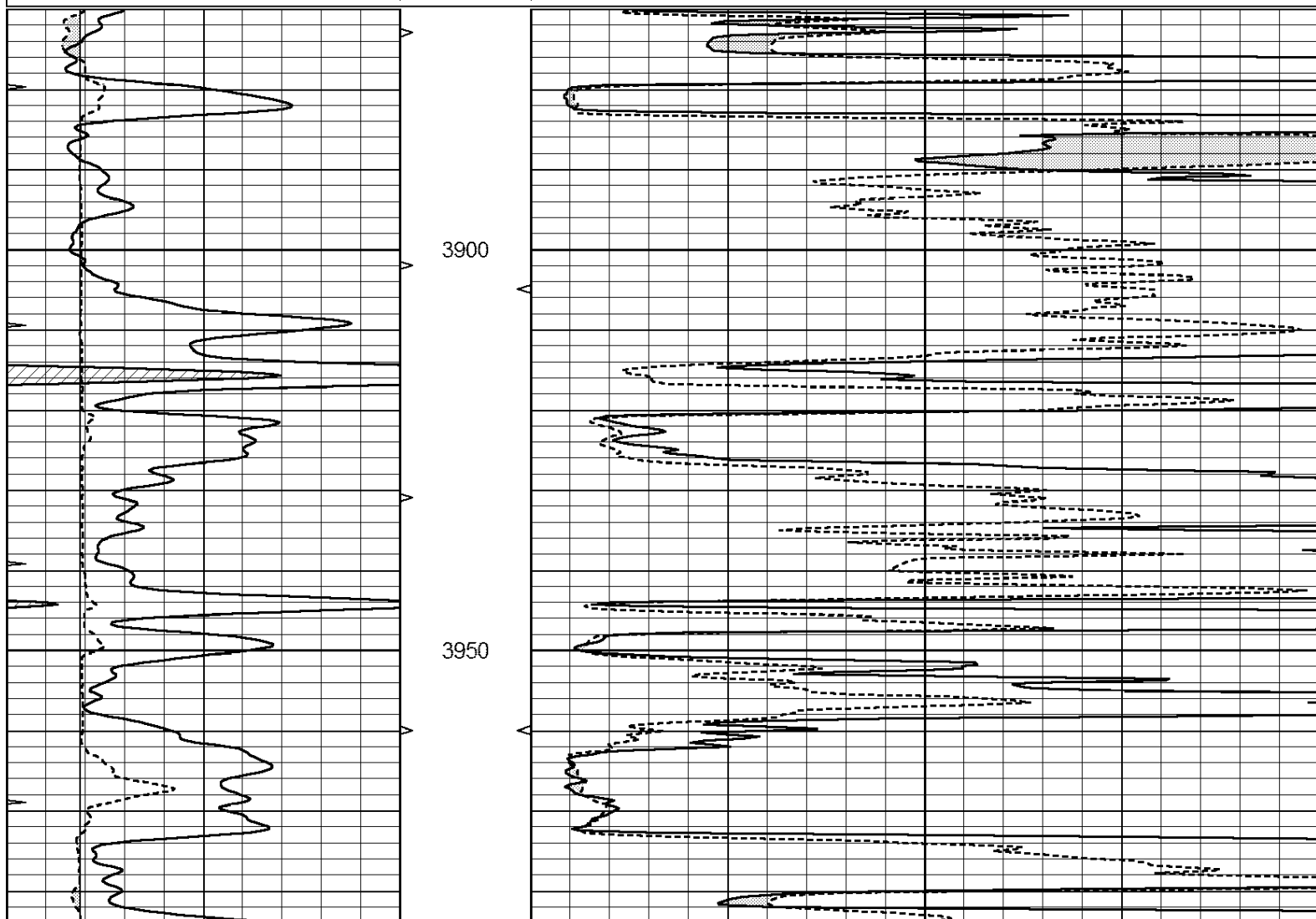


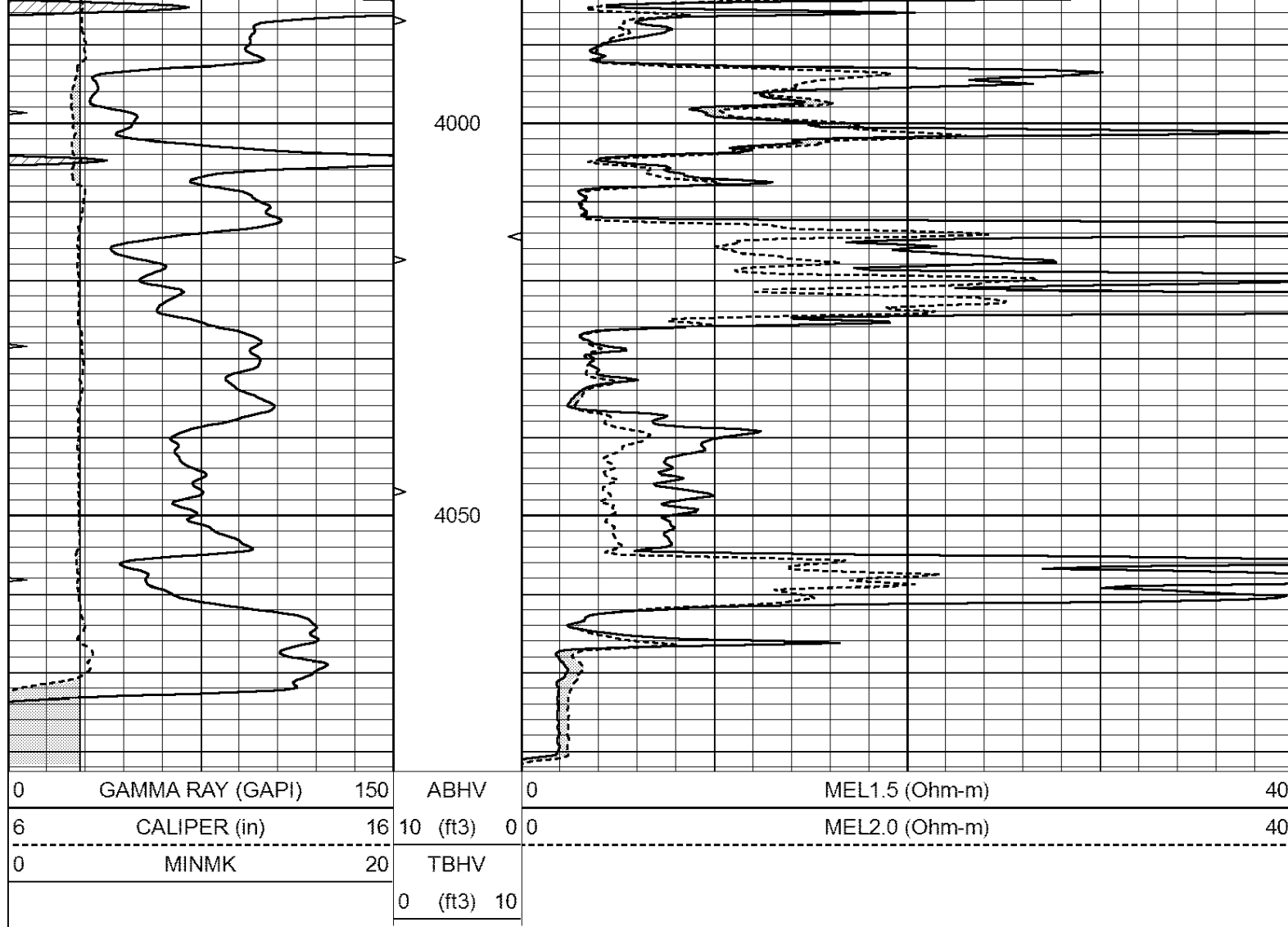
**COMPLETION
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REPEAT SECTION

Database File: 011592ddn.db
 Dataset Pathname: pass6.1
 Presentation Format: _micro
 Dataset Creation: Tue Aug 27 09:32:22 2013 by Calc 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		





Calibration Report

Database File: 011592ddn.db
 Dataset Pathname: pass6.1
 Dataset Creation: Tue Aug 27 09:32:22 2013 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO6
 Tool Model: PROBE
 Performed: Sat Aug 10 00:21:37 2013

Caliper Calibration: Gain=5.542 Offset=-1.220
 References Low Cal High Cal
 8.000 14.000
 Readings 1.431 2.513

1.5" Calibration: Gain=38.075 Offset=-0.700
 References Low Cal High Cal
 0.000 20.000
 Readings 0.004 1.196

2" Calibration: Gain=48.041 Offset=0.000
 References Low Cal High Cal
 0.000 20.000
 Readings 0.006 0.913

Serial Number:	#8
Tool Model:	OPEN
Performed:	Tue Jun 18 19:34:11 2013

Calibrator Value:	150.0	GAPI
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Background Reading:	0.0	cps
Calibrator Reading:	175.0	cps

Sensitivity:	0.8371	GAPI/cps
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