



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

MICRO LOG

Company		PHILLIPS EXPLORATION COMPANY, L.C.	
Well	HERMAN TRUST #5-34		
Field	KOHART		
County	GRAHAM		
State	KANSAS		
Company		PHILLIPS EXPLORATION COMPANY, L.C.	
Well		HERMAN TRUST #5-34	
Field		KOHART	
County		GRAHAM	
State		KANSAS	
Location:		API # : 15-065-23921-0000 1717' FNL & 1702' FWL	
SEC 34 TWP 9S RGE 24W		Other Services CDL/CNL DIL	
Permanent Datum	GROUND LEVEL	Elevation	2513
Log Measured From	KELLY BUSHING 5' A.G.L.	K.B. 2518	
Drilling Measured From	KELLY BUSHING	D.F. 2516	
		G.L. 2513	
Date	5/1/13		
Run Number	TWO		
Depth Driller	4150		
Depth Logger	4151		
Bottom Logged Interval	4149		
Top Log Interval	3550		
Casing Driller	8 5/8" @ 218		
Casing Logger	218		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.1/59	CHLORIDES 1400 PPM	
pH / Fluid Loss	10.5/7.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.0 @ 86F		
Rinf @ Meas. Temp	.75 @ 86F		
Rmc @ Meas. Temp	1.02 @ 86F		
Source of Rinf / Rmc	MEASURED		
Rim @ BHT	.73 @ 117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	117F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JIM PHILLIPS		

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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 COMPLETION & PRODUCTION SVCS. (785) 628-6395

DIRECTIONS:

WAKEENEY, KS. - N. TO REDLINE RD. (RD. H) - 7 W. - S. INTO AT TANK BATTERY

Database File:

010149ddn.db

Dataset Pathname:

pass6.1

Presentation Format:

_micro

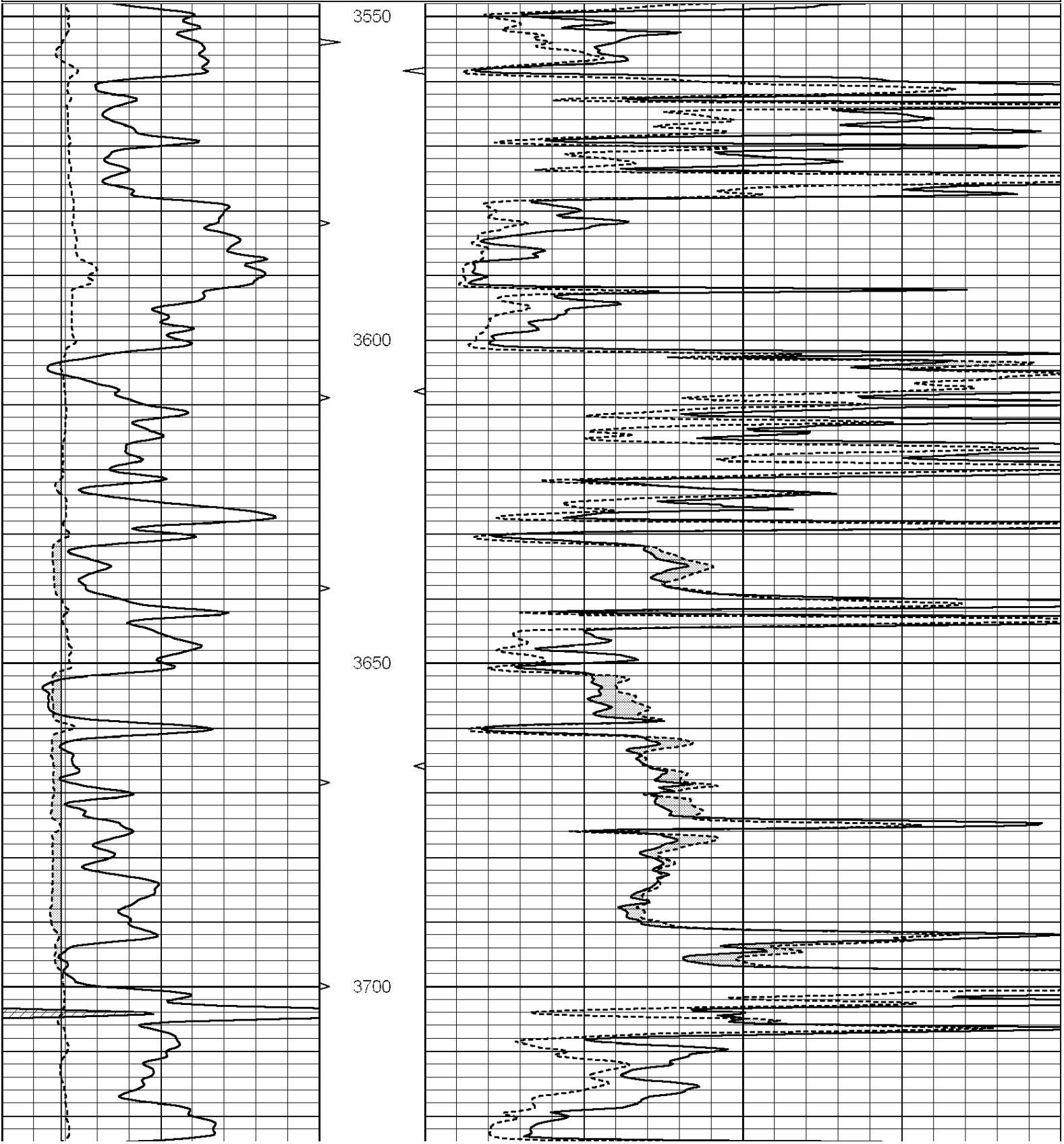
Dataset Creation:

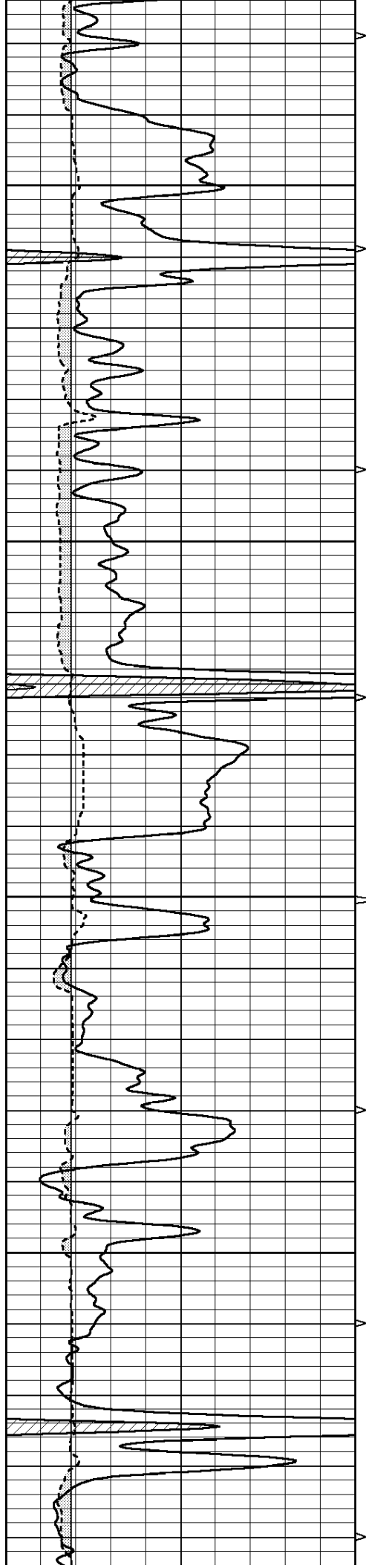
Wed May 01 20:32:17 2013 by Calc Open-Cased 090629

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
			TBHV			
			0 (ft3)	10		



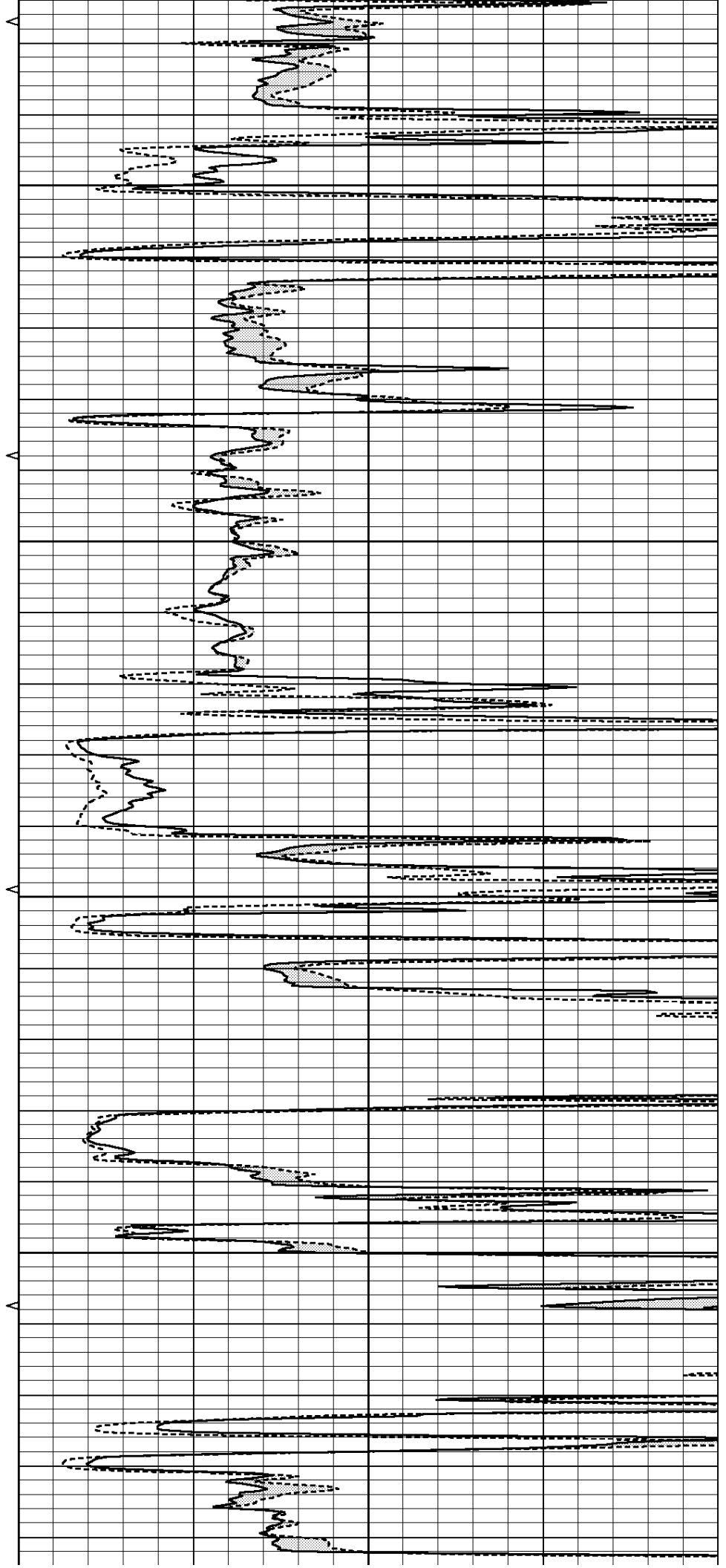


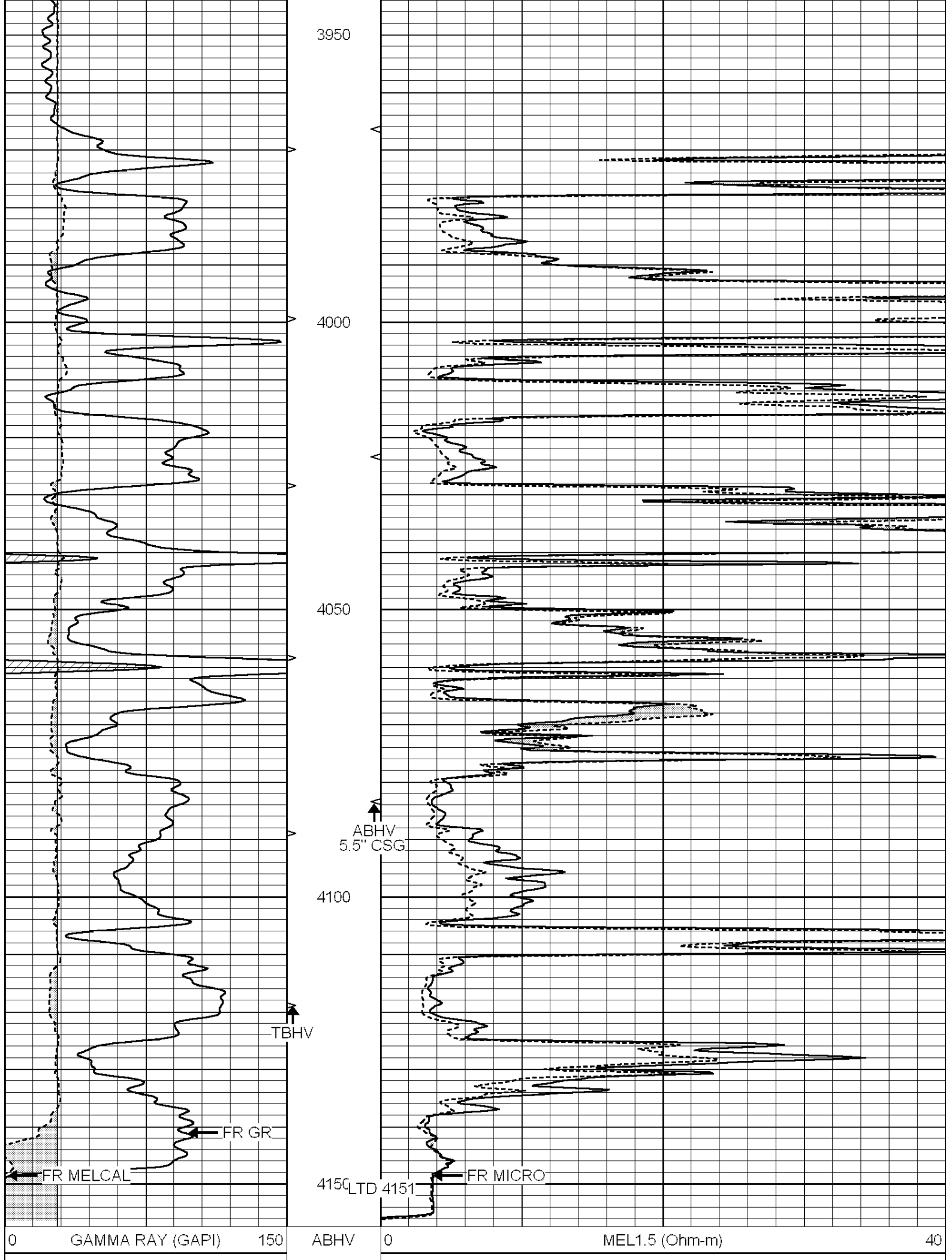
3750

3800

3850

3900





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

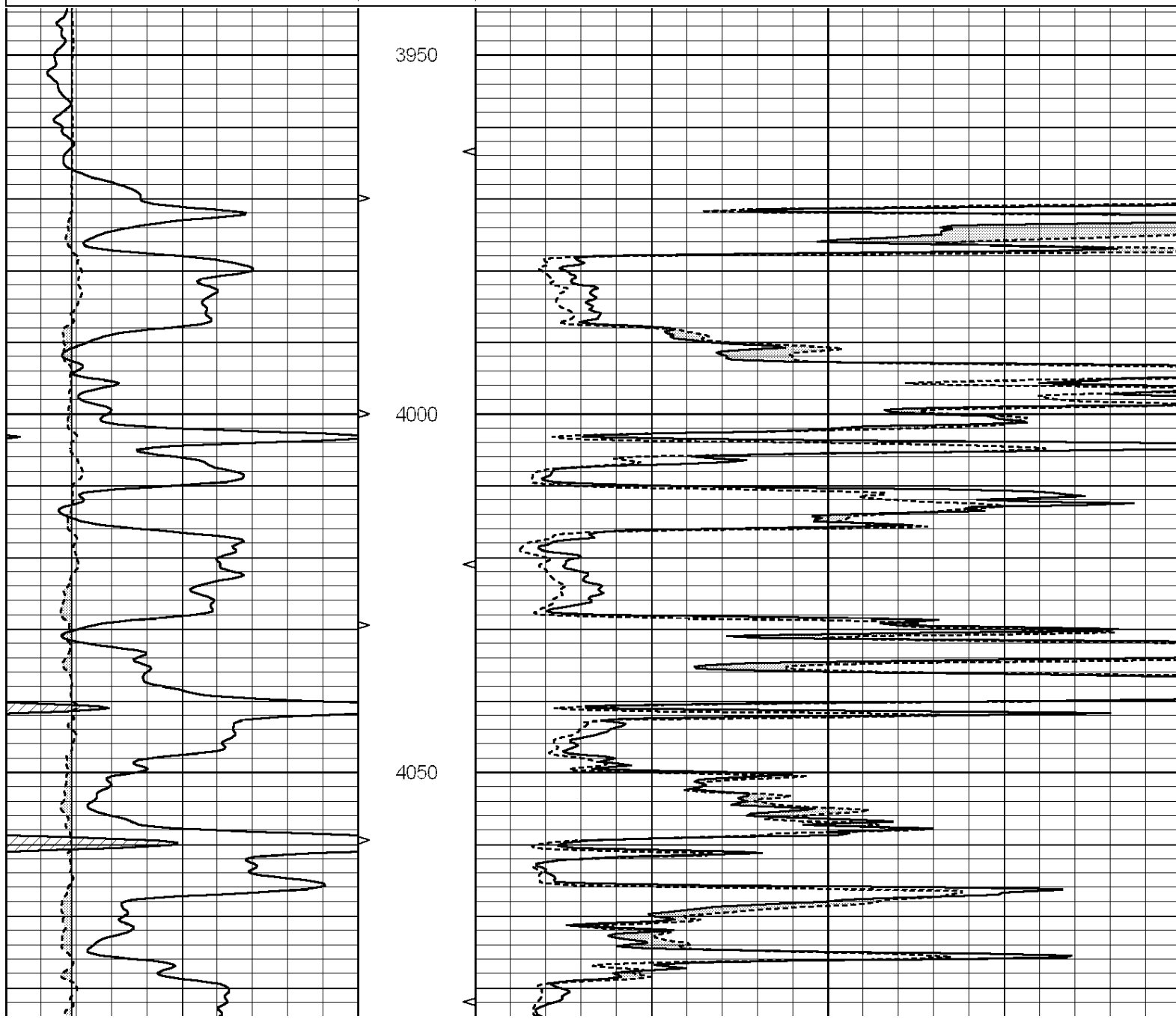


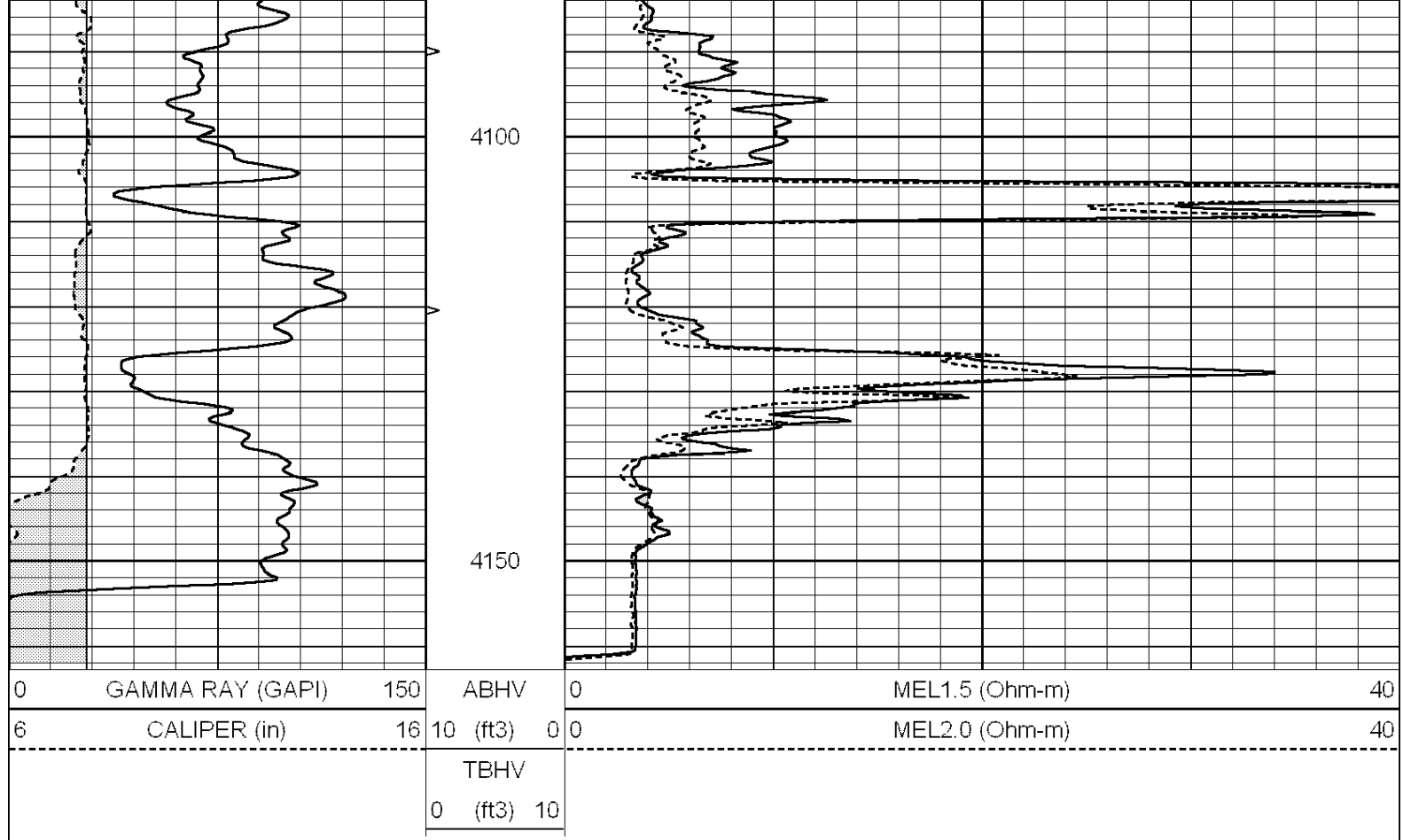
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REPEAT SECTION

Database File: 010149ddn.db
 Dataset Pathname: pass5.1
 Presentation Format: _micro
 Dataset Creation: Wed May 01 20:23:03 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
		TBHV				
		0 (ft3)		10		





Calibration Report

Database File: 010149ddn.db
Dataset Pathname: pass5.1
Dataset Creation: Wed May 01 20:23:03 2013 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number: MICRO6
Tool Model: PROBE
Performed: Wed Apr 24 08:42:48 2013

Caliper Calibration: Gain=5.542 Offset=-1.170

	Low Cal	High Cal
References	8.000	14.000
Readings	1.431	2.513

1.5" Calibration: Gain=45.075 Offset=-0.700

	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	1.196

2" Calibration: Gain=47.041 Offset=-0.600

	Low Cal	High Cal
References	0.000	20.000
Readings	0.006	0.913

Gamma Ray Calibration Report

Serial Number: #8
Tool Model: OPEN
Performed: Mon Jun 13 16:56:43 2011

Calibrator Value: 150.0 GAPI

Background Reading:

0.0

cps

Calibrator Reading:

175.0

cps

Sensitivity:

0.8371

GAPI/cps