SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

MICRO LOG

Company MULL DRILLING COMPANY, INC.
Well SMITH-RUFENACHT UNIT #1-11
Field
County NESS State KANSAS
Location: API # : 15-135-25421-0000
2561' FSL & 647' FEL
NE/4 - SE/4
SEC 11 TWP 17S RGE 24W
Permanent Datum GROUND LEVEL Elevation 2476
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL/PE
DIL/SON

Elevation
K.B. 2481
D.F. 2479
G.L. 2476

Date	7/25/12		
Run Number	TWO		
Depth Driller	4550		
Depth Logger	4548		
Bottom Logged Interval	4530		
Top Log Interval	3700		
Casing Driller	8 5/8" @ 234		
Casing Logger	233		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5900 PPM	
Density / Viscosity	9.1/44		
pH / Fluid Loss	9.5/12.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.57 @ 93F		
Rmf @ Meas. Temp	0.43 @ 93F		
Rmc @ Meas. Temp	0.68 @ 93F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	0.44 @ 121F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	121F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JEFF GRONEWEG		
Witnessed By	KEVIN KESSLER		

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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.

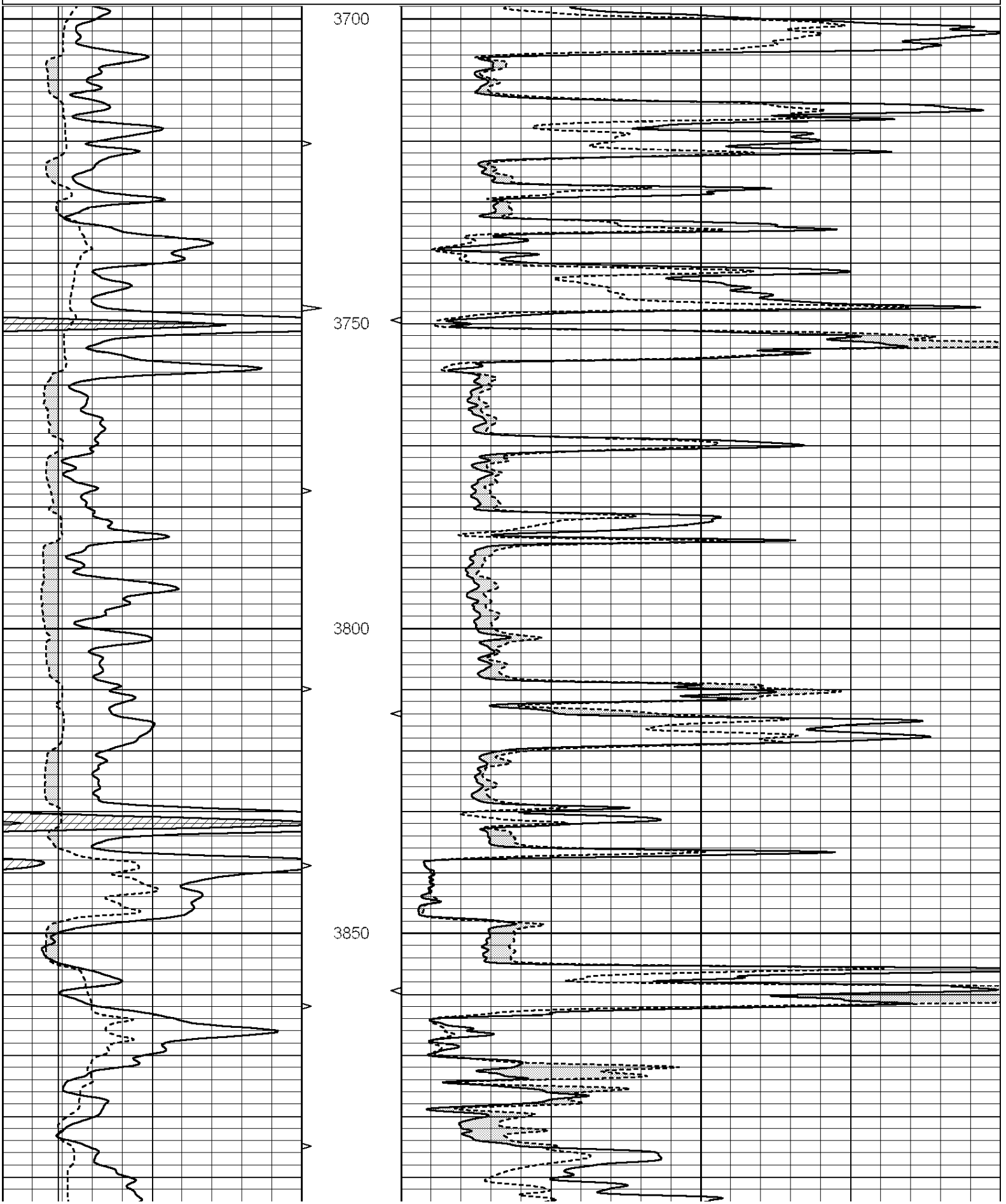
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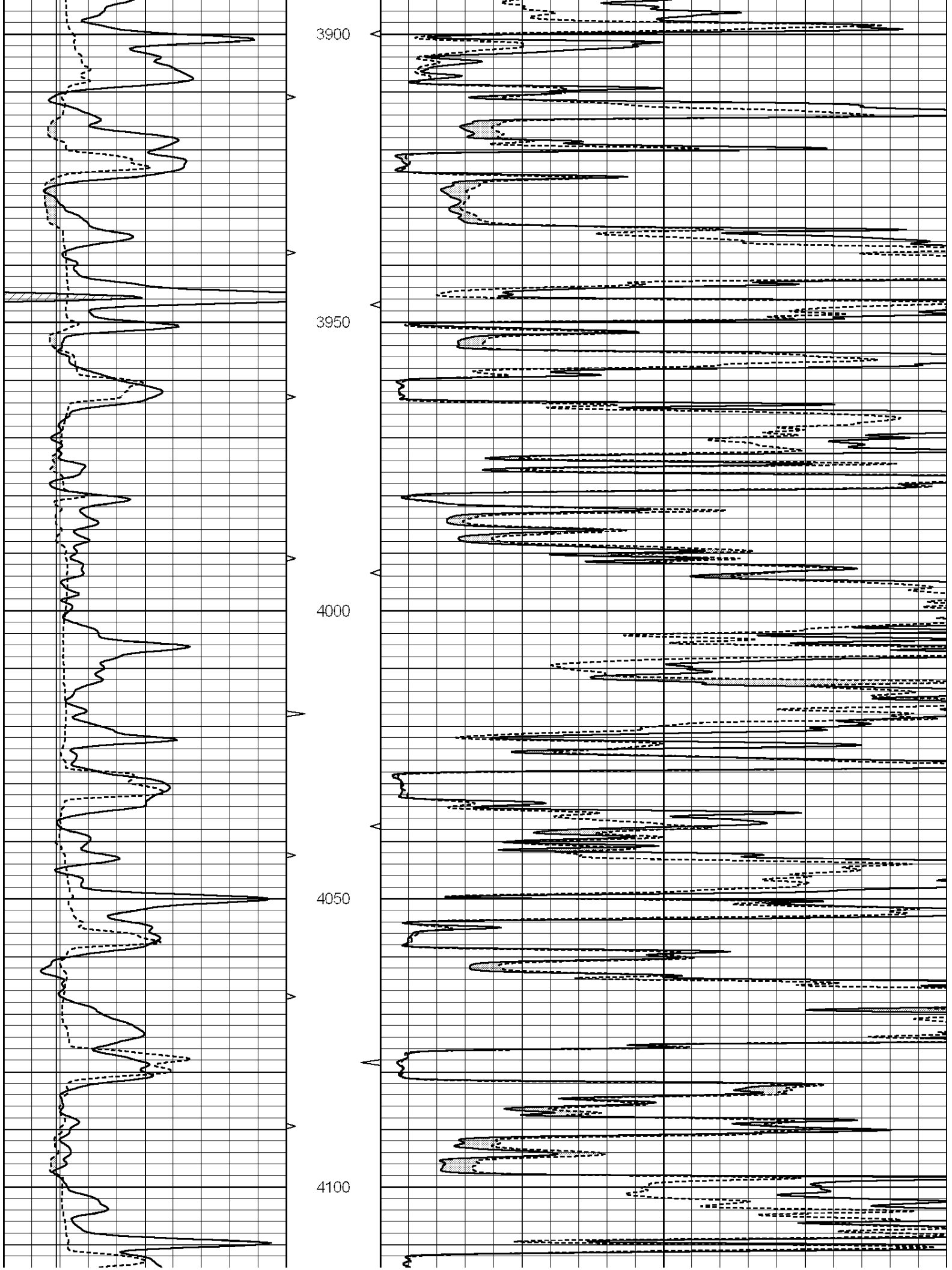
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
RANSOM, KS - WEST EDGE OF TOWN TO RD Q - 3 MILES SOUTH
WEST INTO

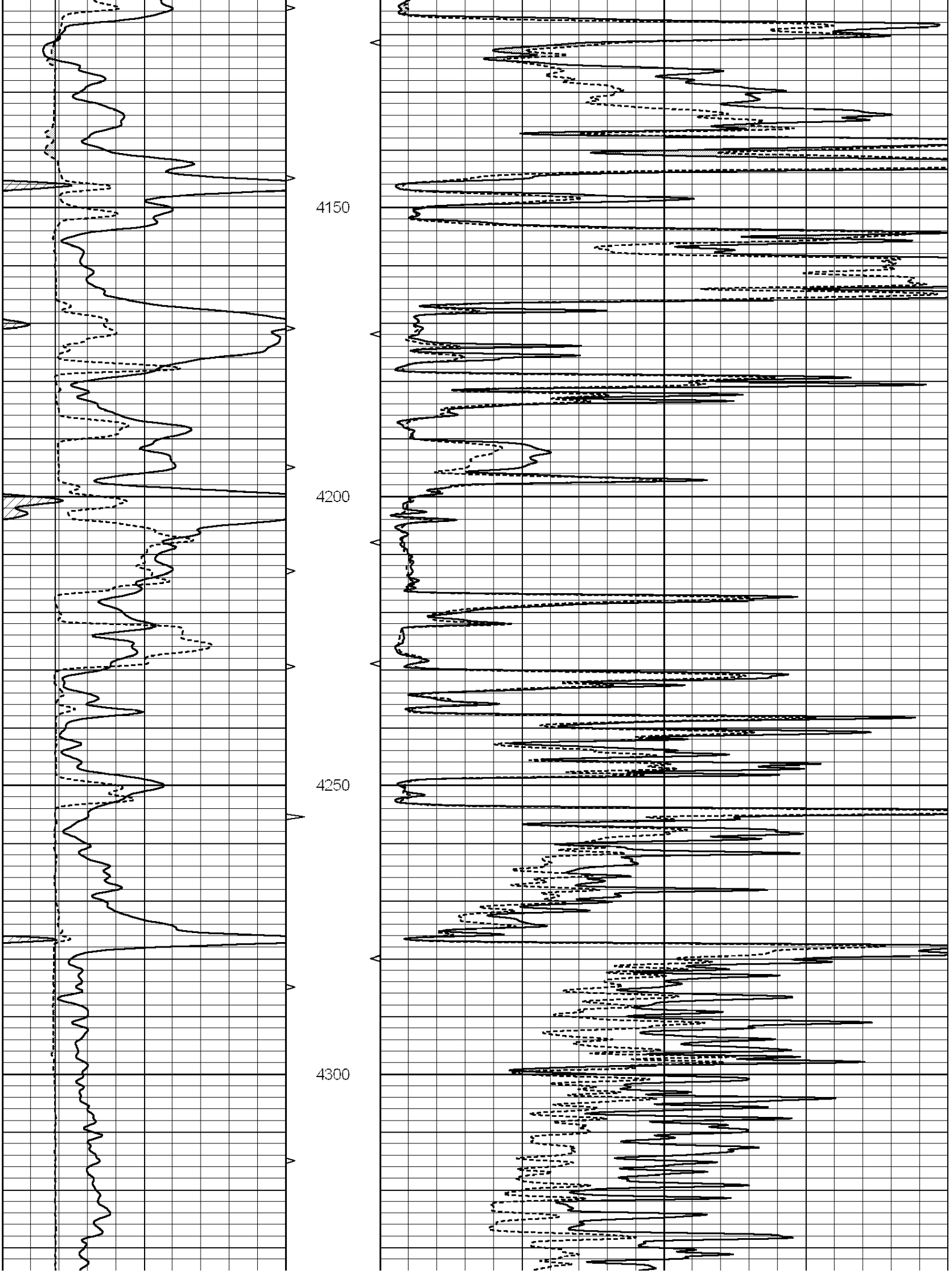
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Dataset Pathname: pass6.1
Presentation Format: _micro
Dataset Creation: Wed Jul 25 13:40:56 2012 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

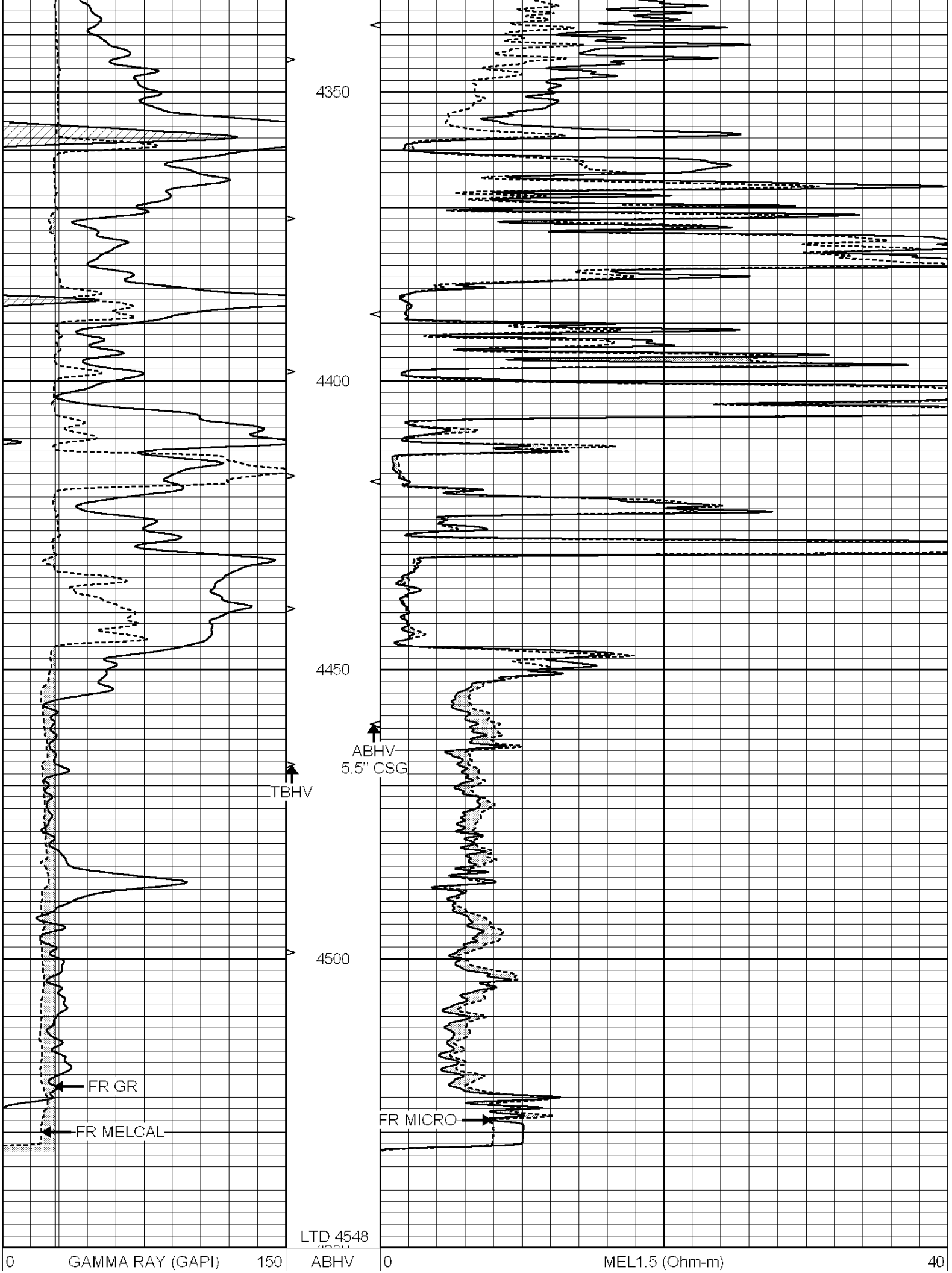
Shaked by: Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 150	ABHV 10 (ft3) 0	0 MEL1.5 (Ohm-m) 40
6 CALIPER (in) 16	TBHV 0 (ft3) 10	0 MEL2.0 (Ohm-m) 40




3900
3950
4000
4050
4100


4150
4200
4250
4300


4350
4400
4450
4500
ABHV
5.5" CSG
TBHV
FR GR
FR MELCAL
FR MICRO
LTD 4548
0
GAMMA RAY (GAPI)
150
ABHV
0
MEL1.5 (Ohm-m)
40

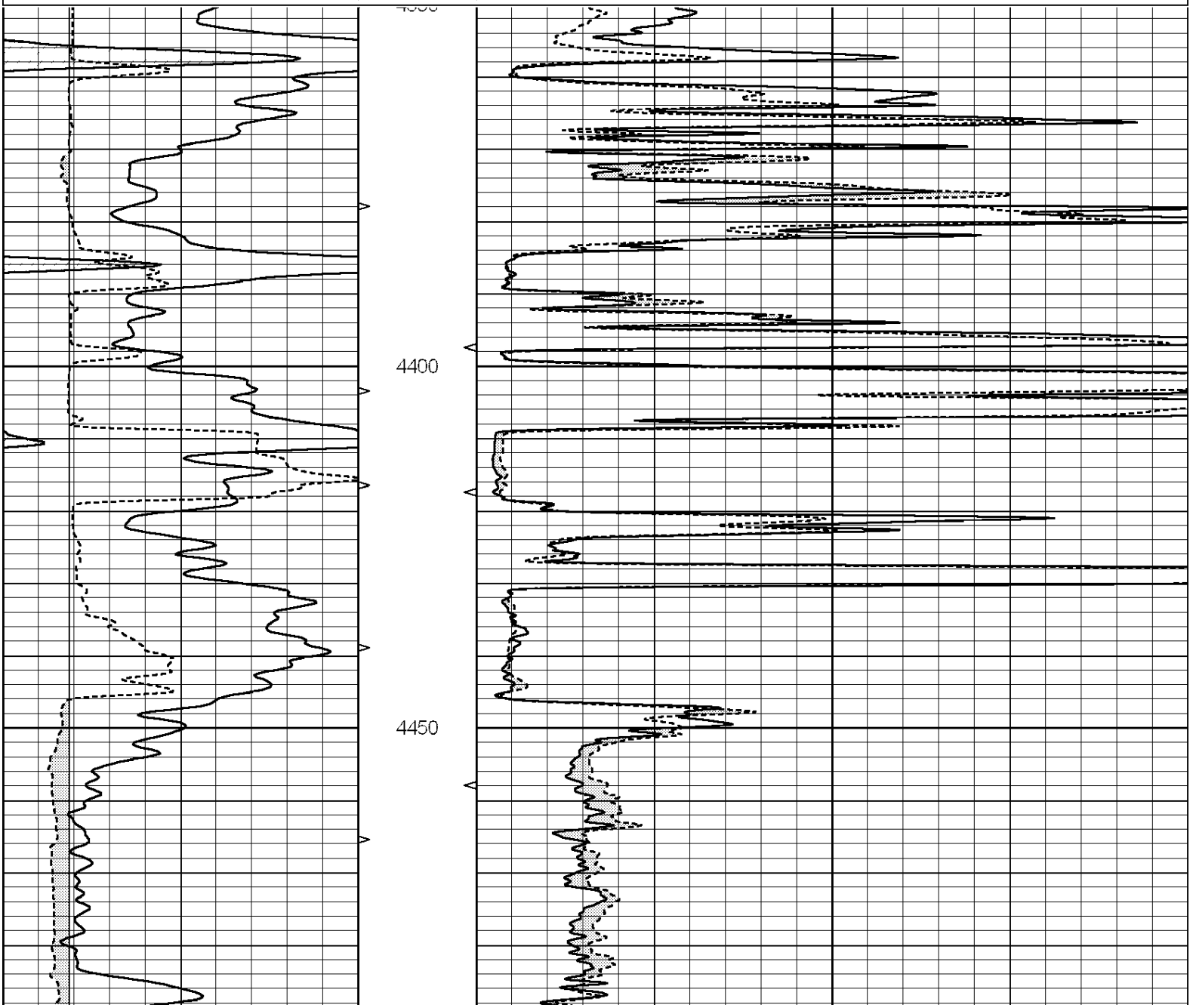
6	CALIPER (in) 16	10	(ft3) 0	0	MEL2.0 (Ohm-m) 40
			TBHV		
		0	(ft3) 10		

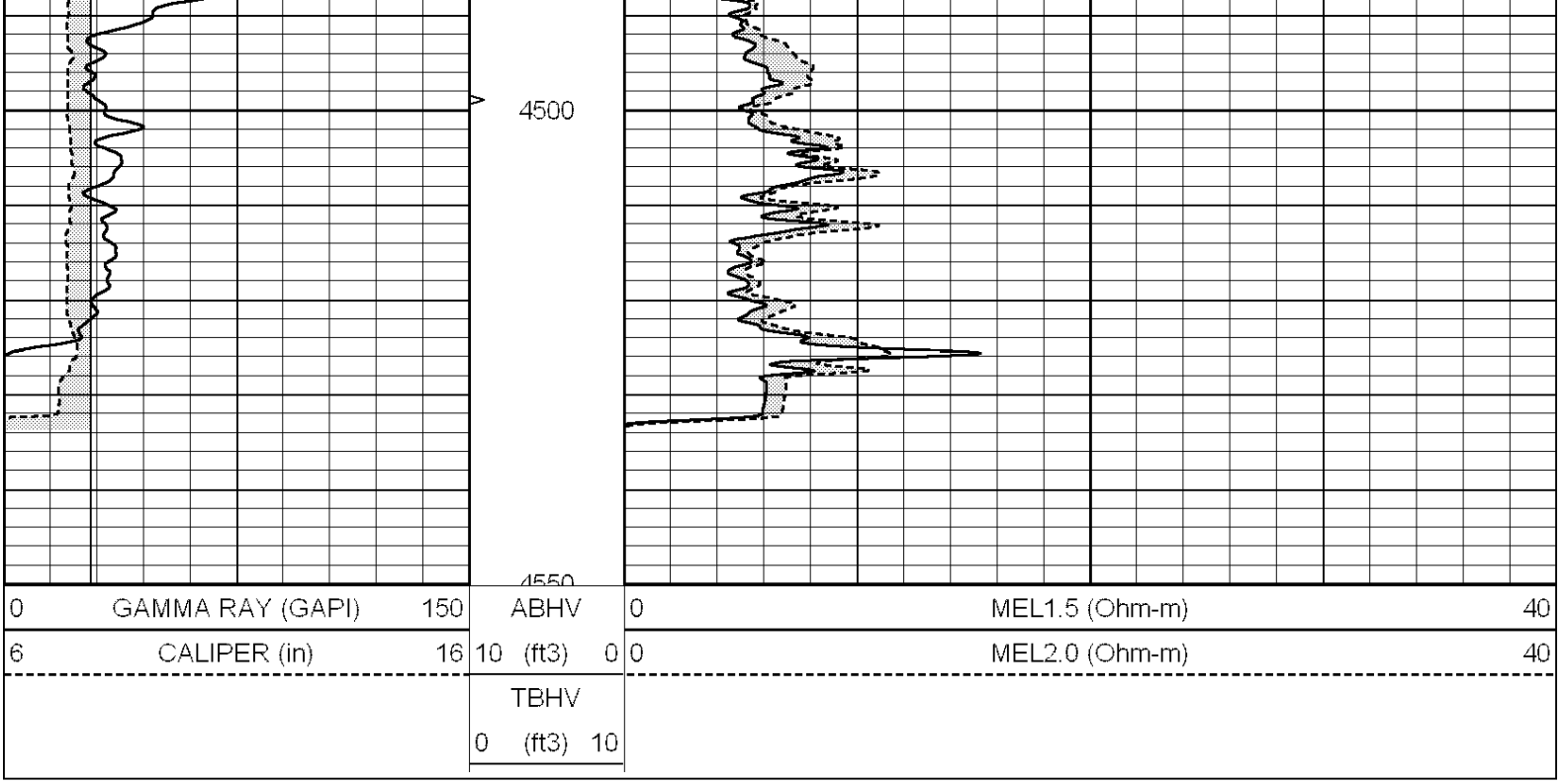
SUPERIOR
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REPEAT SECTION

Database File:	009473pe.db
Dataset Pathname:	pass5.3
Presentation Format:	_micro
Dataset Creation:	Wed Jul 25 13:43:59 2012 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		





Calibration Report

Database File: 009473pe.db
Dataset Pathname: pass6.1
Dataset Creation: Wed Jul 25 13:40:56 2012 by Calc Open-Cased 090629

MICRO Calibration Report

Serial Number:	MICRO6	
Tool Model:	PROBE	
Performed:	Wed May 23 05:16:50 2012	
Caliper Calibration:	Gain=6.253	Offset=-1.508
	Low Cal	High Cal
References	5.800	13.000
Readings	1.178	2.330
1.5" Calibration:	Gain=30.075	Offset=-0.200
	Low Cal	High Cal
References	0.000	20.000
Readings	0.004	1.196
2" Calibration:	Gain=31.041	Offset=0.000
	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