



SUPERIOR
Hays,
Kansas

MICRO
LOG

Company	ATLAS OPERATING, LLC.	
Well	SANDERS SCHMISSER #3	
Field	SPIVEY-GRABS-BASIL	
County	HARPER	State KANSAS
Location:	API # : 15-077-21776-0000 660' FNL & 380' FWL	
Permanent Datum	GROUND LEVEL	Elevation 1585
Log Measured From	KELLY BUSHING 10' A.G.L.	
Drilling Measured From	KELLY BUSHING	
SEC 28	TWP 31S	RGE 8W
Other Services CDL/CNL DIL		Elevation K.B. 1595 D.F. 1593 G.L. 1585
Date	12/21/11	
Run Number	TWO	
Depth Driller	4950	
Depth Logger	4951	
Bottom Logged Interval	4949	
Top Log Interval	4000	
Casing Driller	8 5/8" @ 271	
Casing Logger	269	
Bit Size	7 7/8	
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6000 PPM
Density / Viscosity	9.4/48	
pH / Fluid Loss	9.5/12.4	
Source of Sample	FLOWLINE	
Rin @ Meas. Temp	0.80 @ 76F	
Rmf @ Meas. Temp	0.60 @ 76F	
Rmc @ Meas. Temp	0.96 @ 76F	
Source of Rmf / Rmc	MEASURED	
Rin @ BHT	0.49 @ 125F	
Time Circulation Stopped	2 HOURS	
Time Logger on Bottom		
Maximum Recorded Temperature	125F	
Equipment Number	680	
Location	HAYS, KS.	
Recorded By	JEFF GRONEMEG	
Witnessed By	SEAN DEENIHAN	

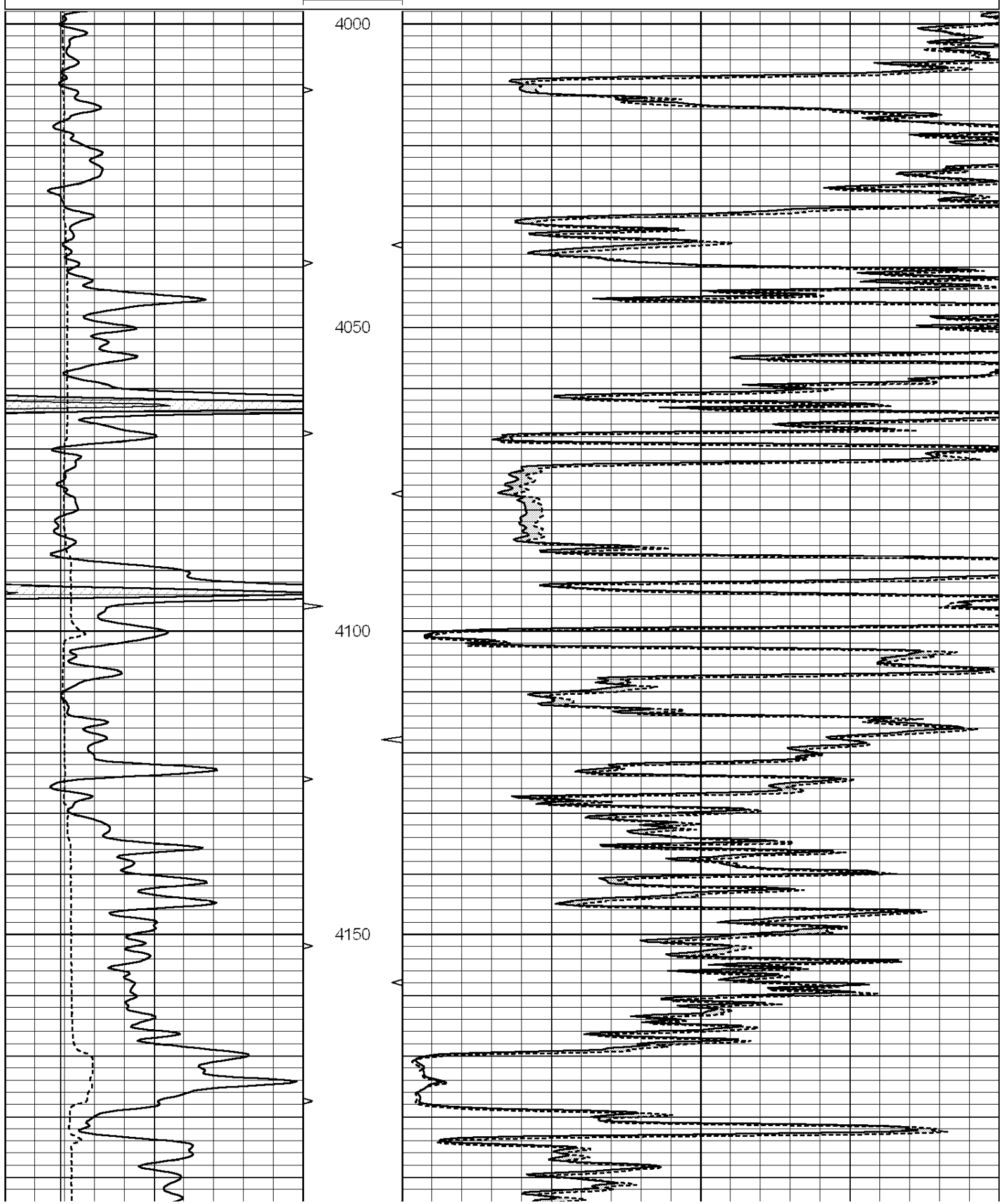
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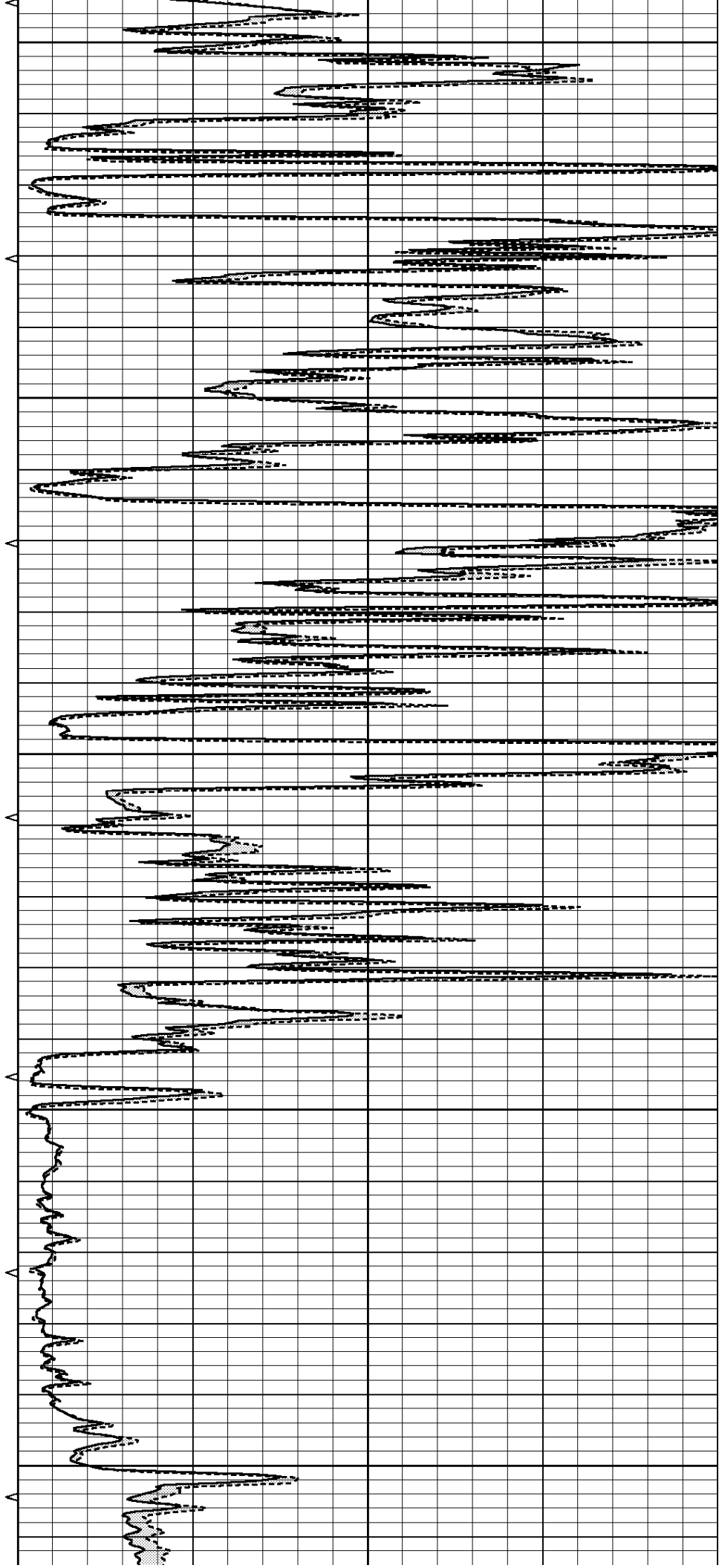
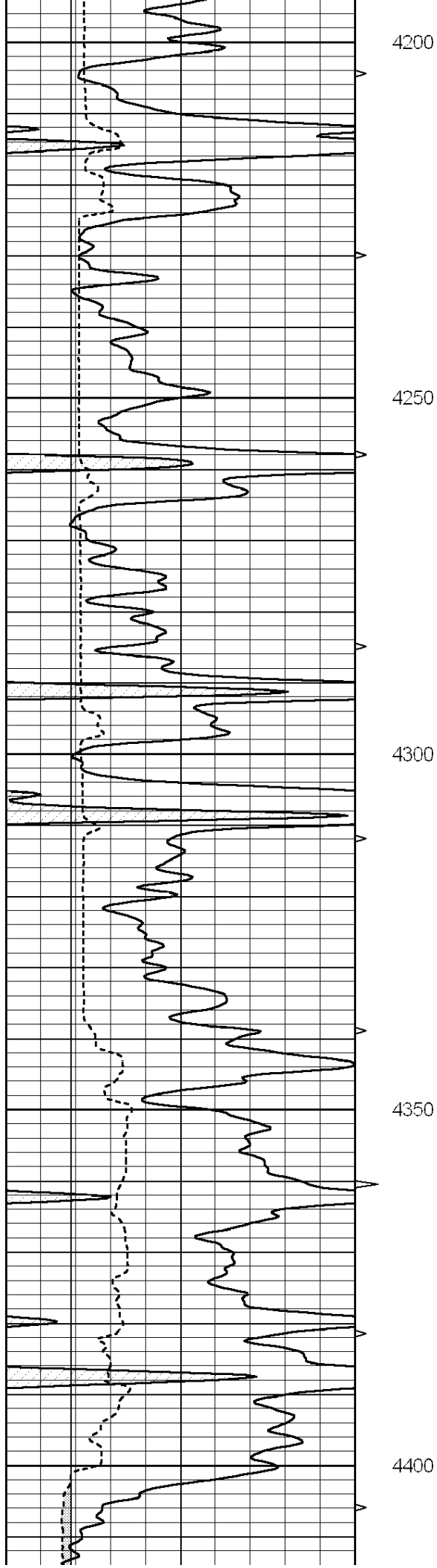
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

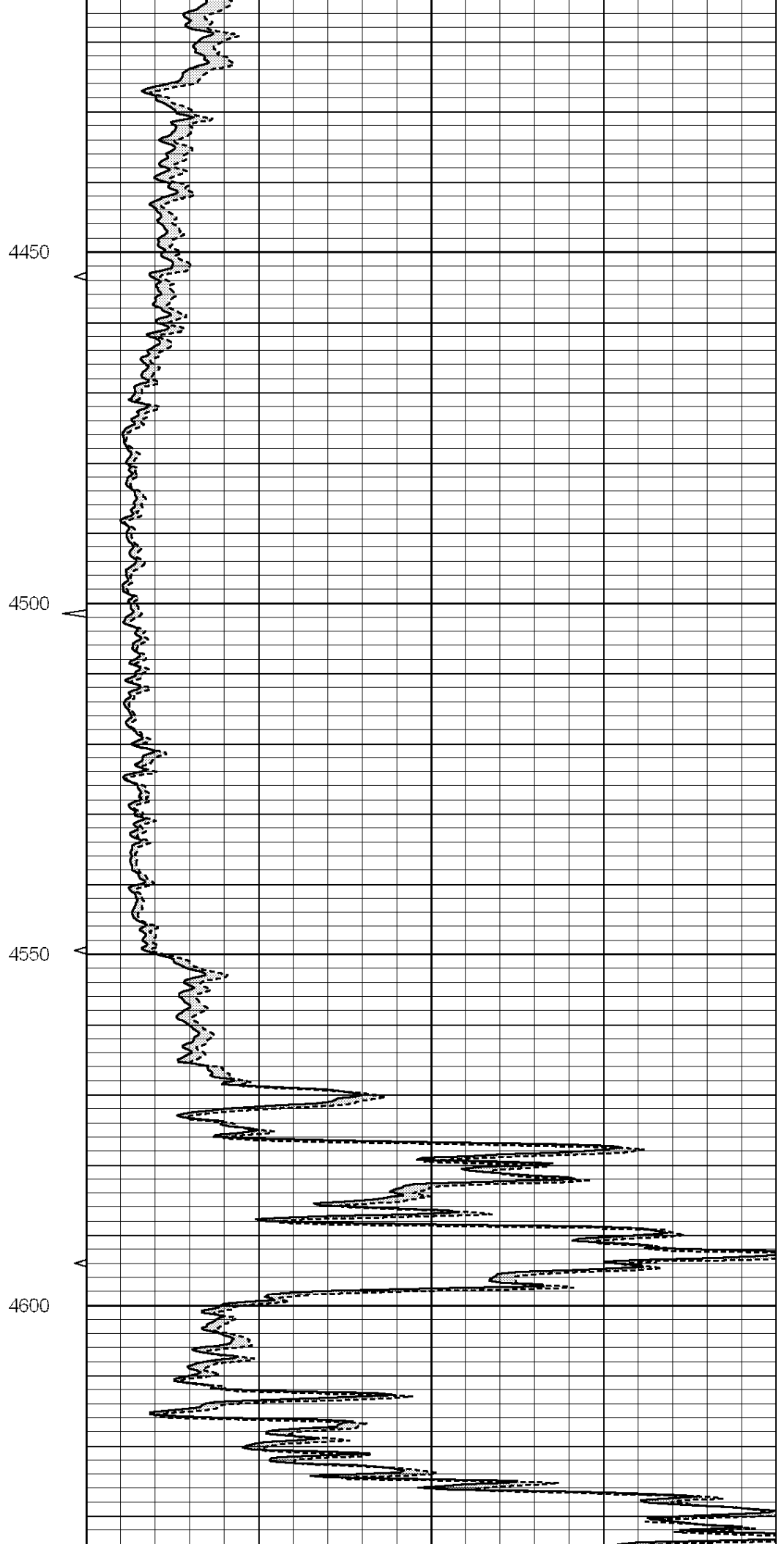
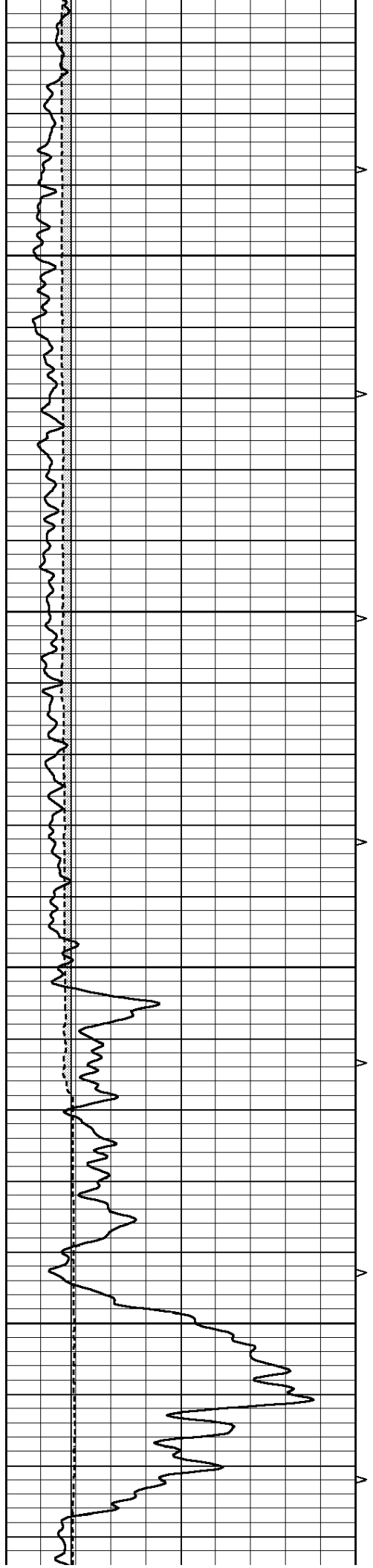
Comments

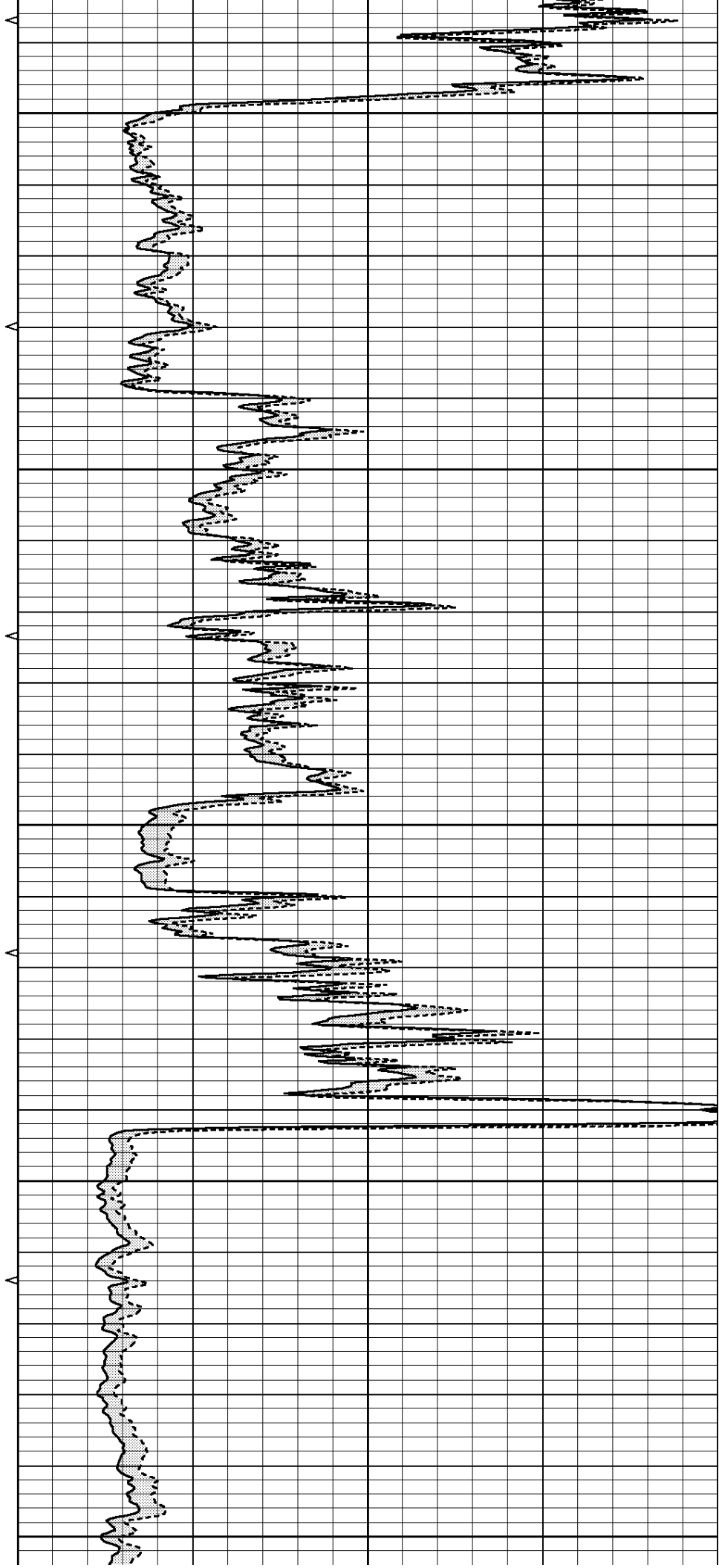
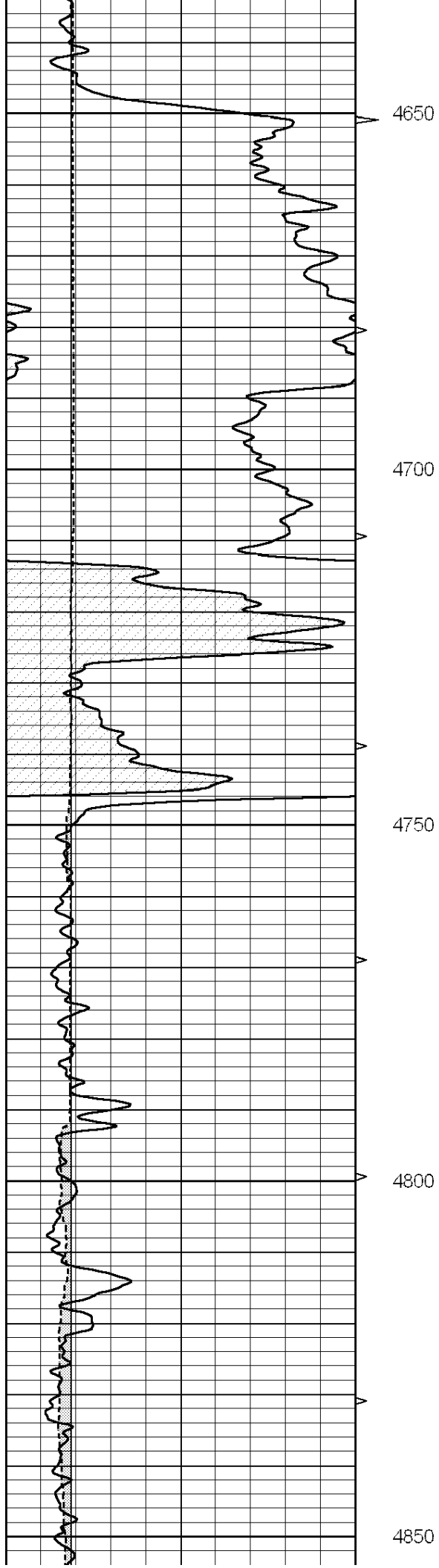
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
ZENDA, KS - 4 MILES EAST TO RD SW50 - SOUTH TO SPIVEY GAS PLANT
2 MILES SOUTH TO NW 130 - 2 MILES EAST TO NW80TH
1/2 SOUTH - EAST INTO

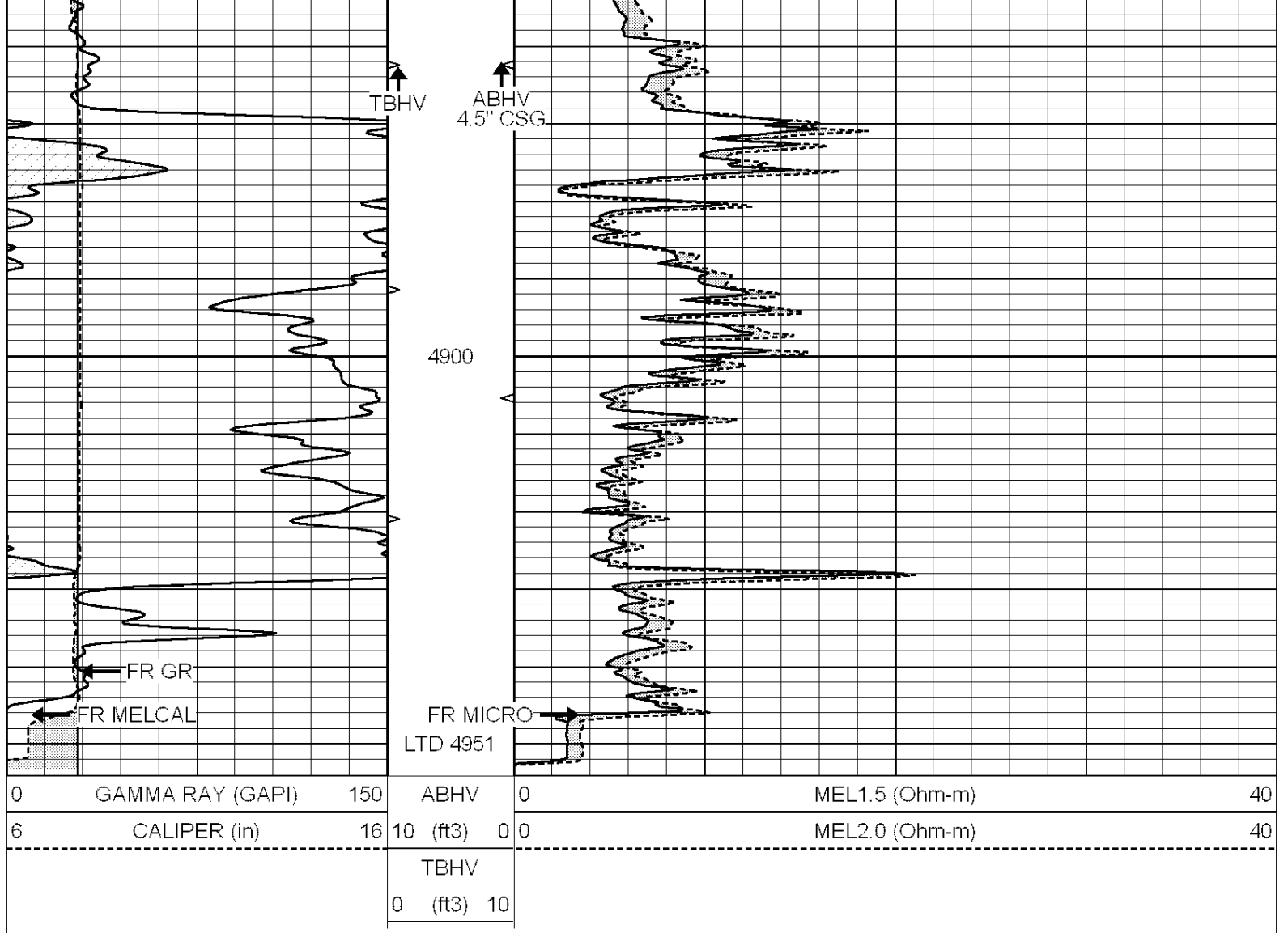
Charted by:		Depth in Feet scaled 1:2.15				
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0 0	MEL2.0 (Ohm-m)	40
			TBHV			
			0 (ft3)	10		









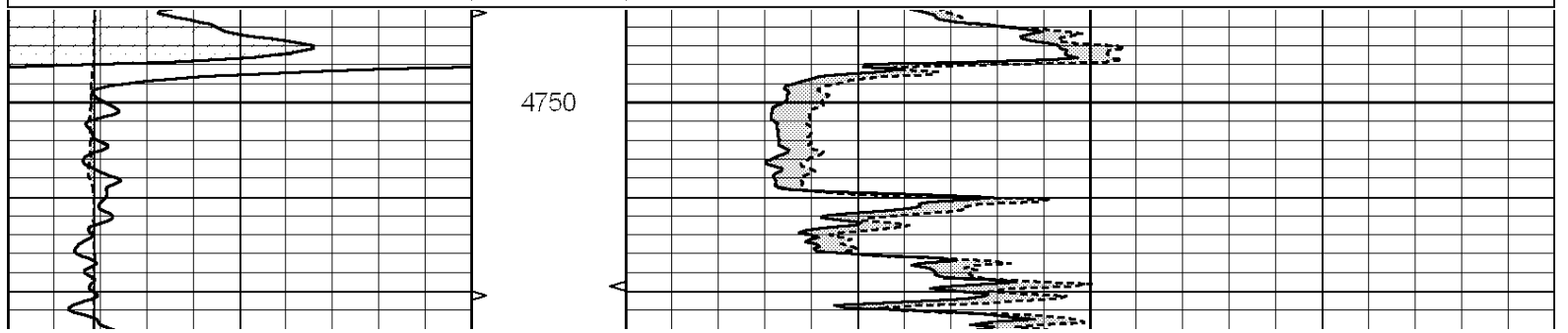


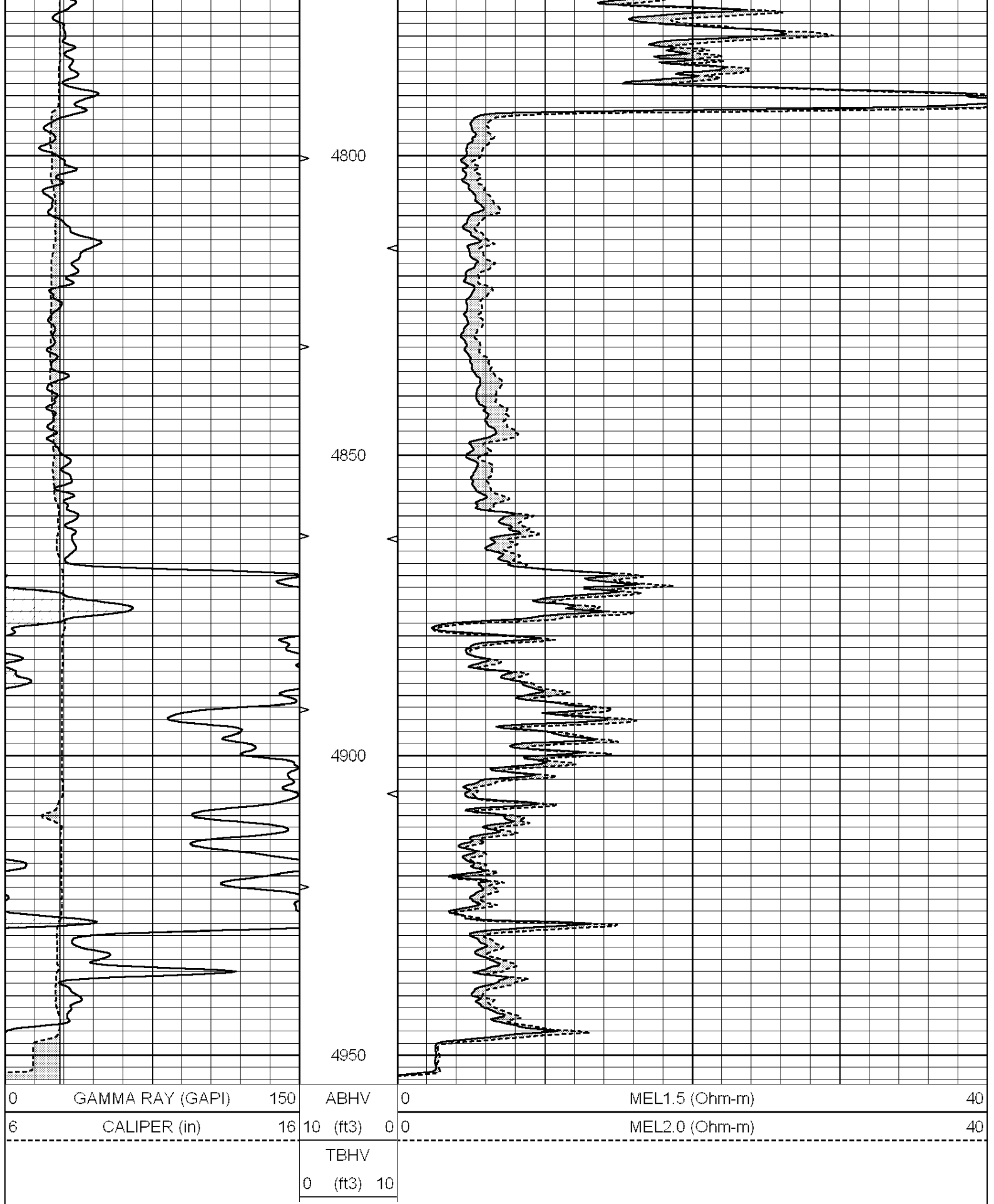
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REPEAT SECTION

Database File: 008658ddn.db
 Dataset Pathname: pass4.3
 Presentation Format: _micro
 Dataset Creation: Wed Dec 21 12:03:41 2011 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: 008658ddn.db
 Dataset Pathname: pass5.4
 Dataset Creation: Wed Dec 21 12:01:27 2011 by Calc Open-Cased 090629

MICRO Calibration Report		
Serial Number: Tool Model: Performed:	MICRO6 PROBE Wed Dec 14 02:35:39 2011	
Caliper Calibration:	Gain=4.211	Offset=1.926
References	Low Cal	High Cal
Readings	8.000	14.000
	1.178	2.330
1.5" Calibration:	Gain=30.075	Offset=-0.650
References	Low Cal	High Cal
Readings	0.000	20.000
	0.004	1.196
2" Calibration:	Gain=87.041	Offset=-1.600
References	Low Cal	High Cal
Readings	0.000	20.000
	0.006	0.913
Gamma Ray Calibration Report		
Serial Number: Tool Model: Performed:	#8 OPEN 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