



SUPERIOR
Hays,
Kansas

MICRO LOG

Company		MULL DRILLING CO., INC.	
Well		#1-17 WATERSON 'A'	
Field			
County		LANE	
State		KANSAS	
Location:		API # : 15-101-22256-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 9' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 17 TWP 17S RGE 27W		CDL/CNL DIL/SON	
Elevation		K.B. 2718 D.F. 2716 G.L. 2709	
Date	10/9/10		
Run Number	TWO		
Depth Driller	4680		
Depth Logger	4686		
Bottom Logged Interval	4668		
Top Log Interval	3700		
Casing Driller	8 5/8" @ 230		
Casing Logger	228		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6400 PPM	
Density / Viscosity	9.2 / 48		
pH / Fluid Loss	9.5 / 10.4		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	0.75 @ 86F		
Rmf @ Meas. Temp	0.56 @ 86F		
Rmc @ Meas. Temp	0.90 @ 86F		
Source of Rmf / Rmc	MEASURED		
Rin @ BHT	0.53 @ 122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	122F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JEFF GRONEMEG		
Witnessed By	KEVIN KESSLER		

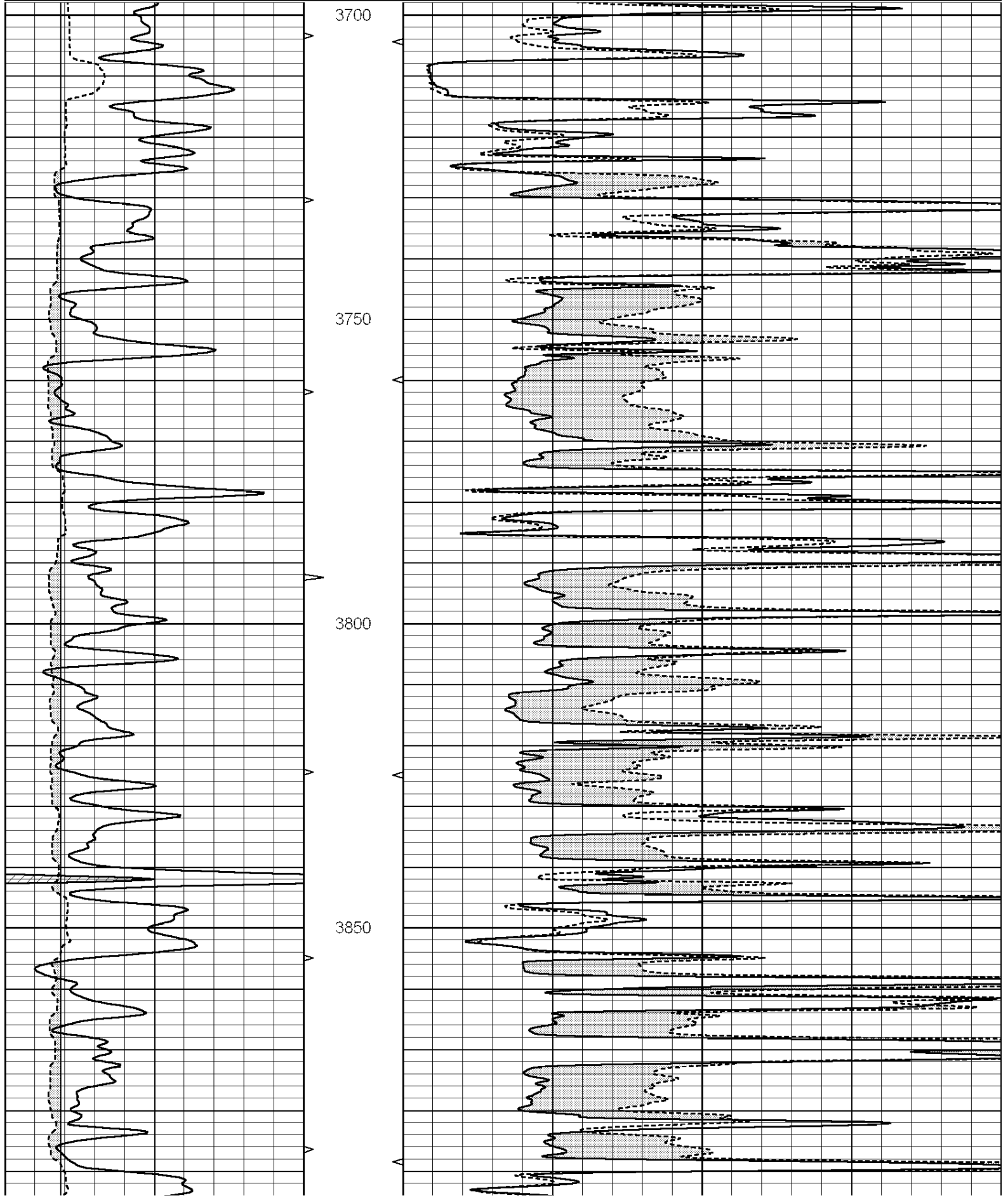
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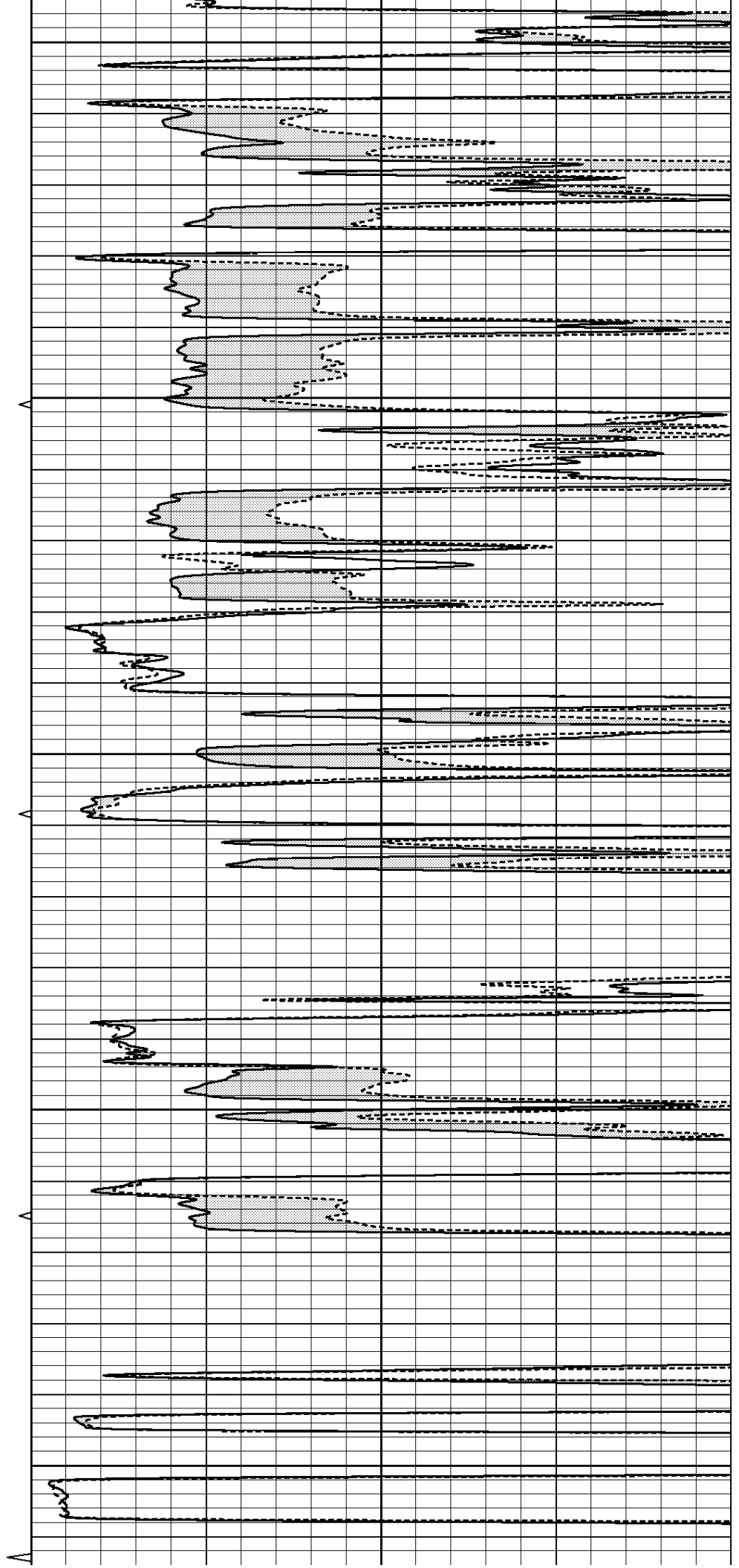
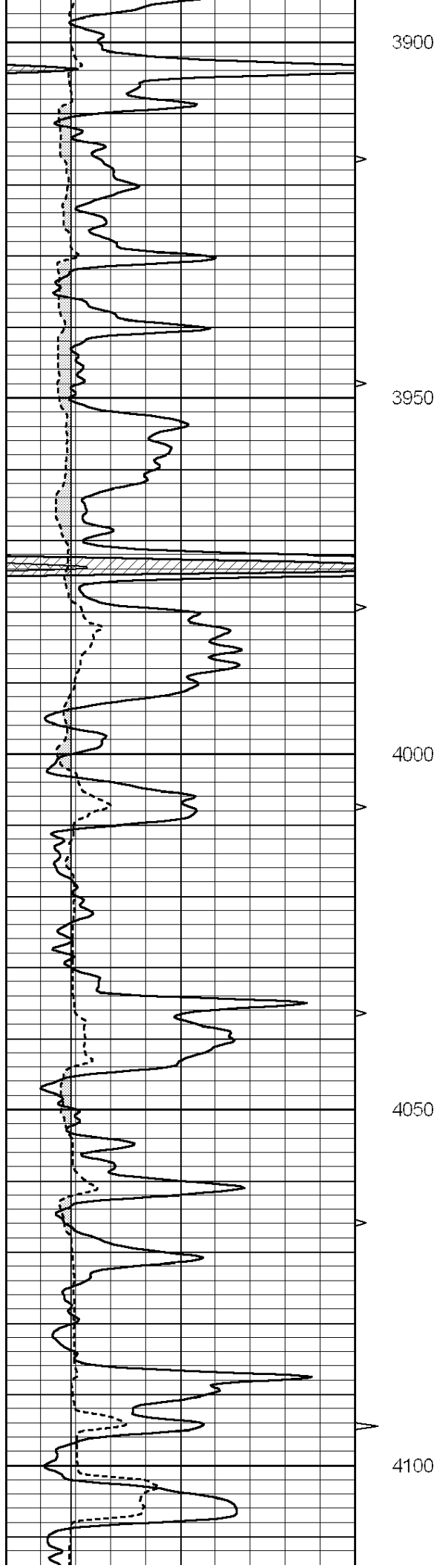
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

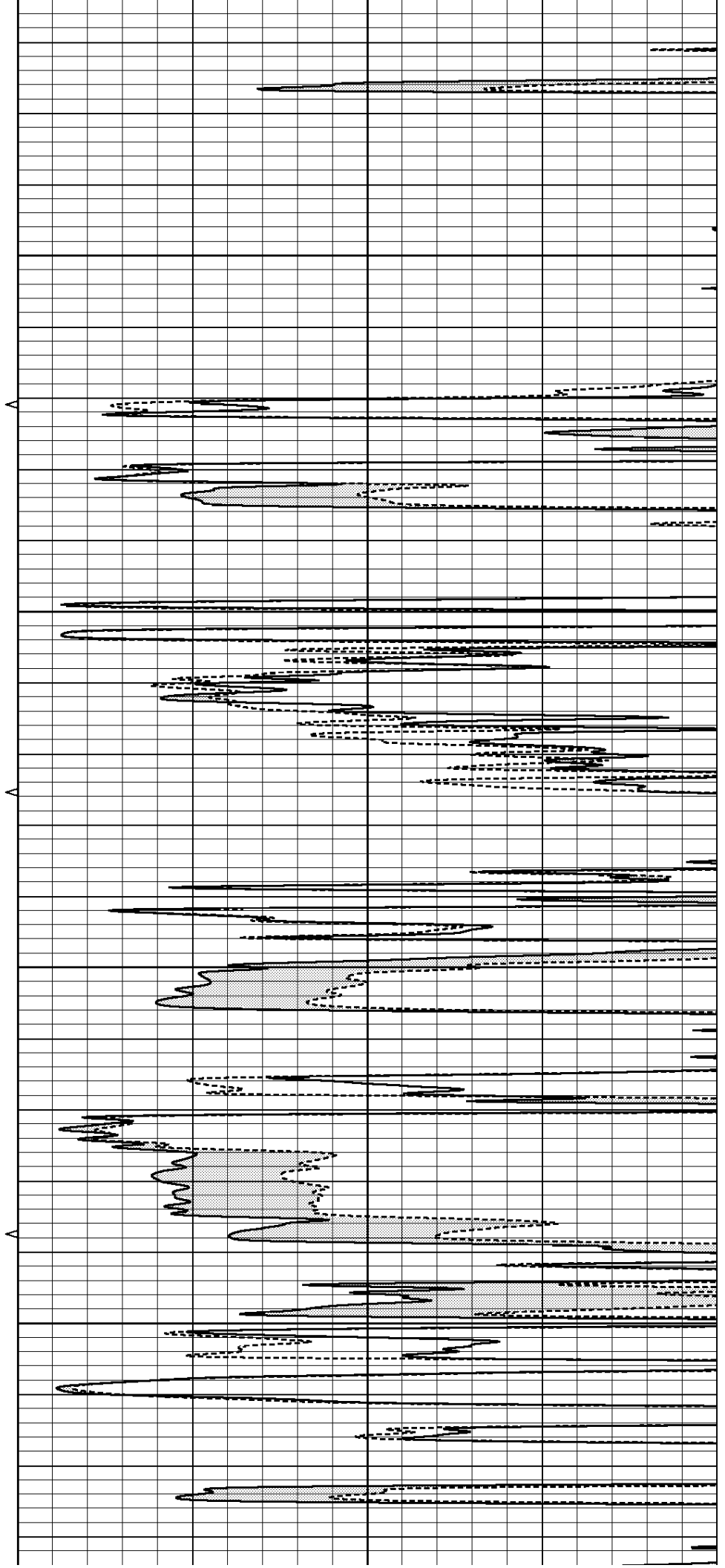
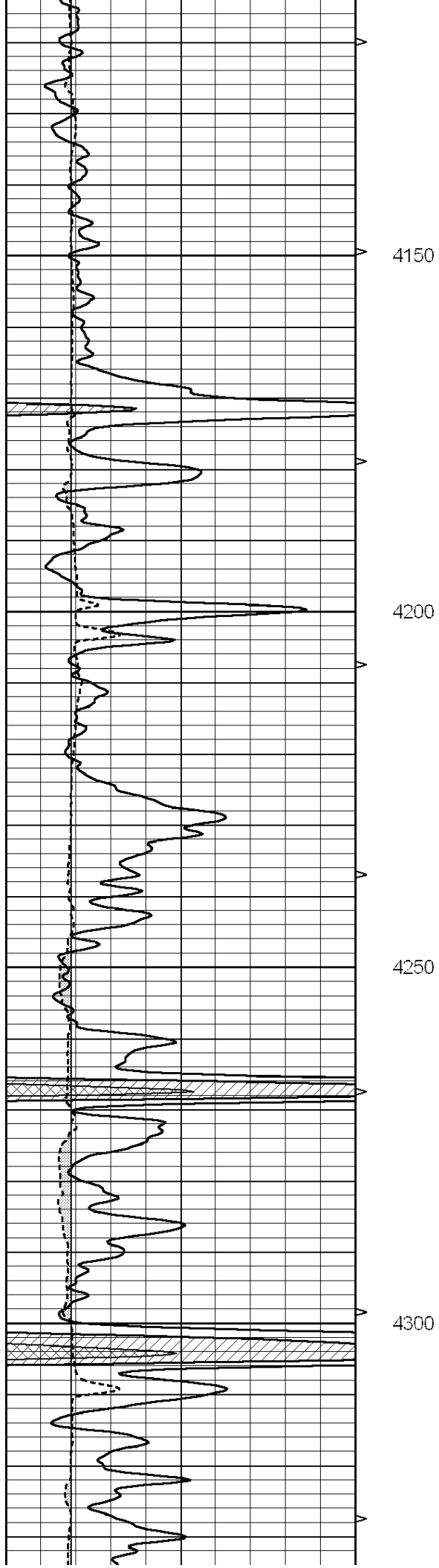
Comments

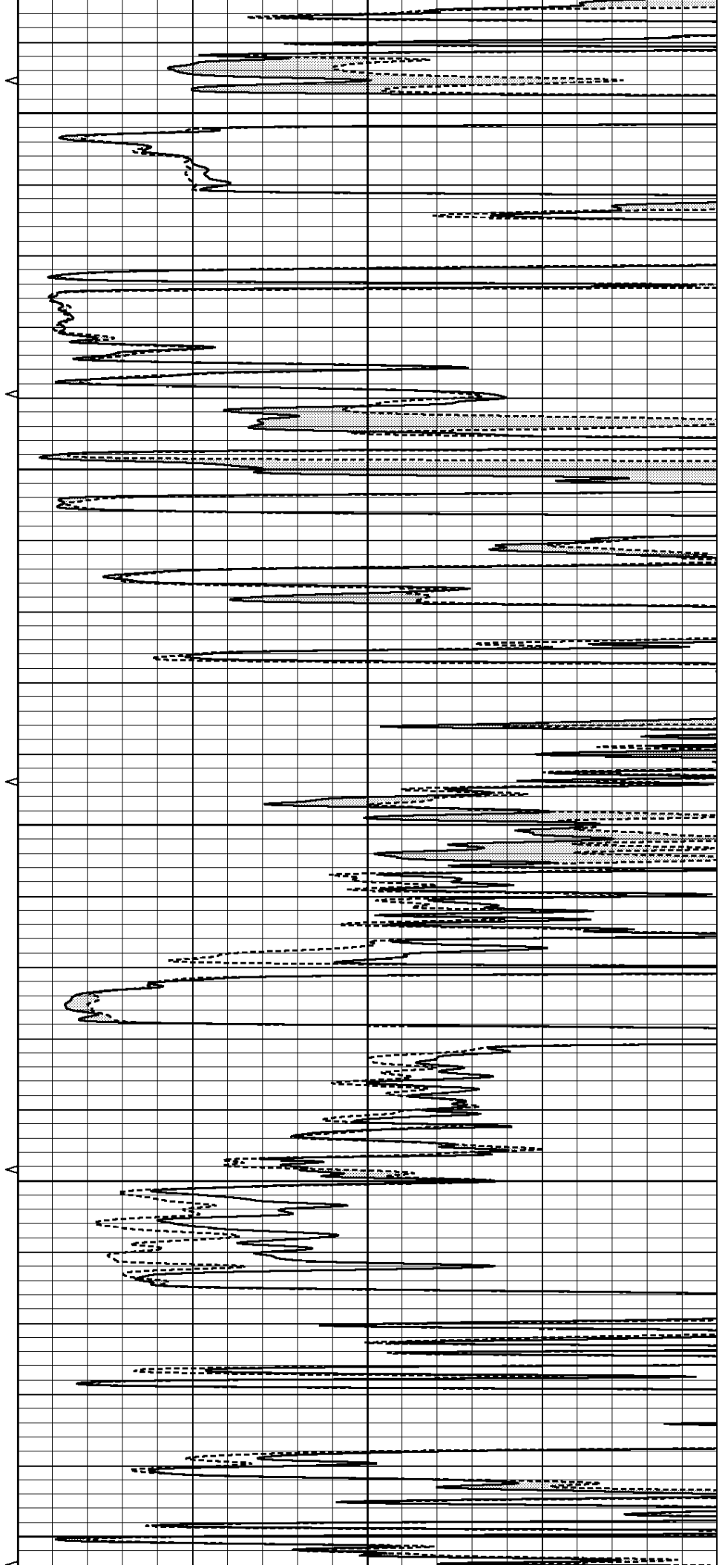
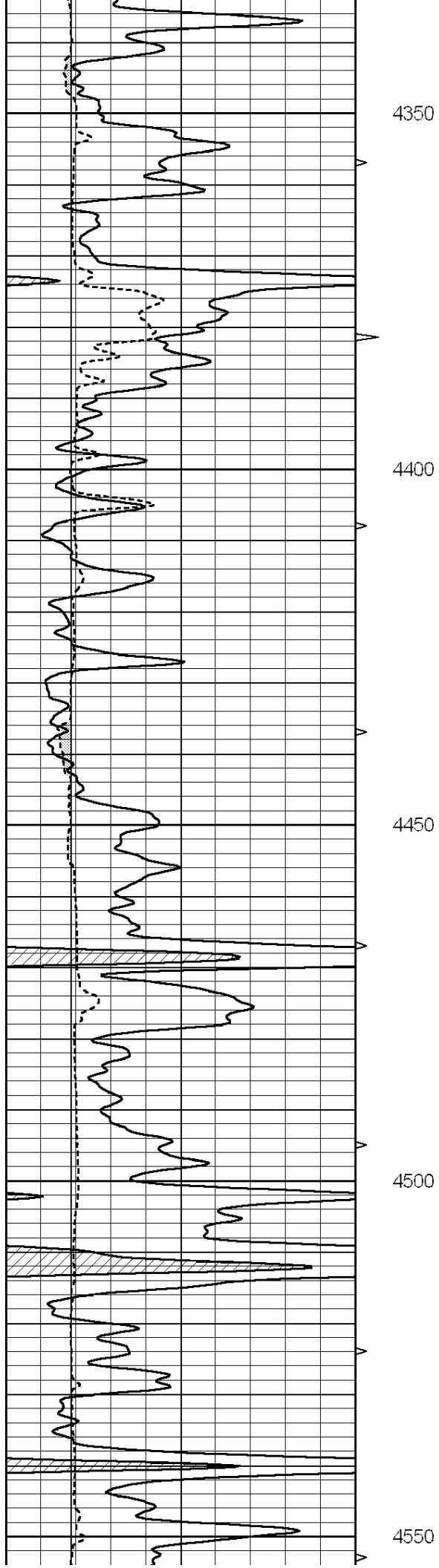
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
UTICA, KS - WEST TO SCOUT RD - 3 MILES SOUTH - 1/2 MILE WEST
SOUTH INTO

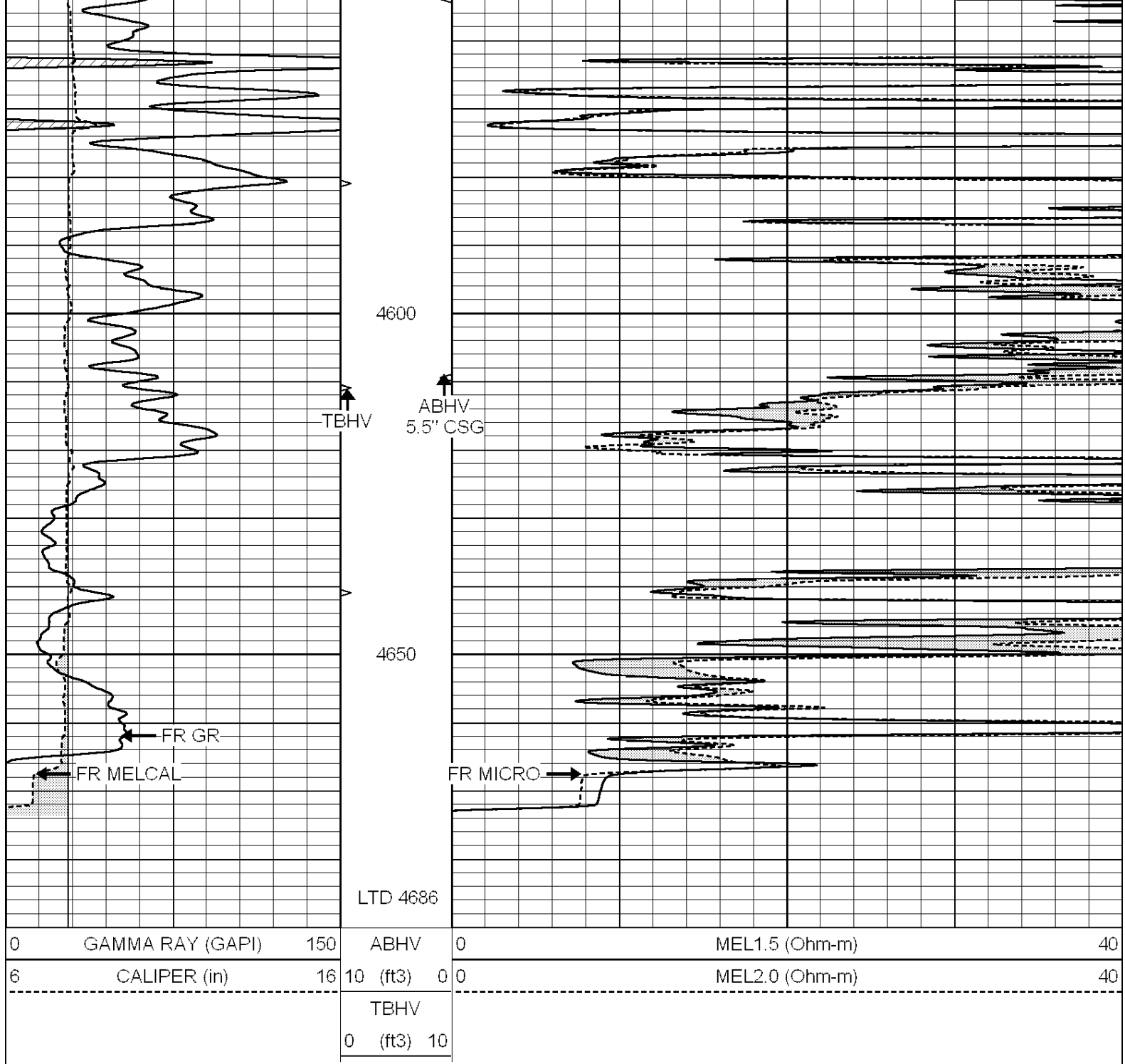
Charted by:		Depth in Feet scaled 1:2.15				
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0 0	MEL2.0 (Ohm-m)	40
			TBHV			
			0 (ft3)	10		









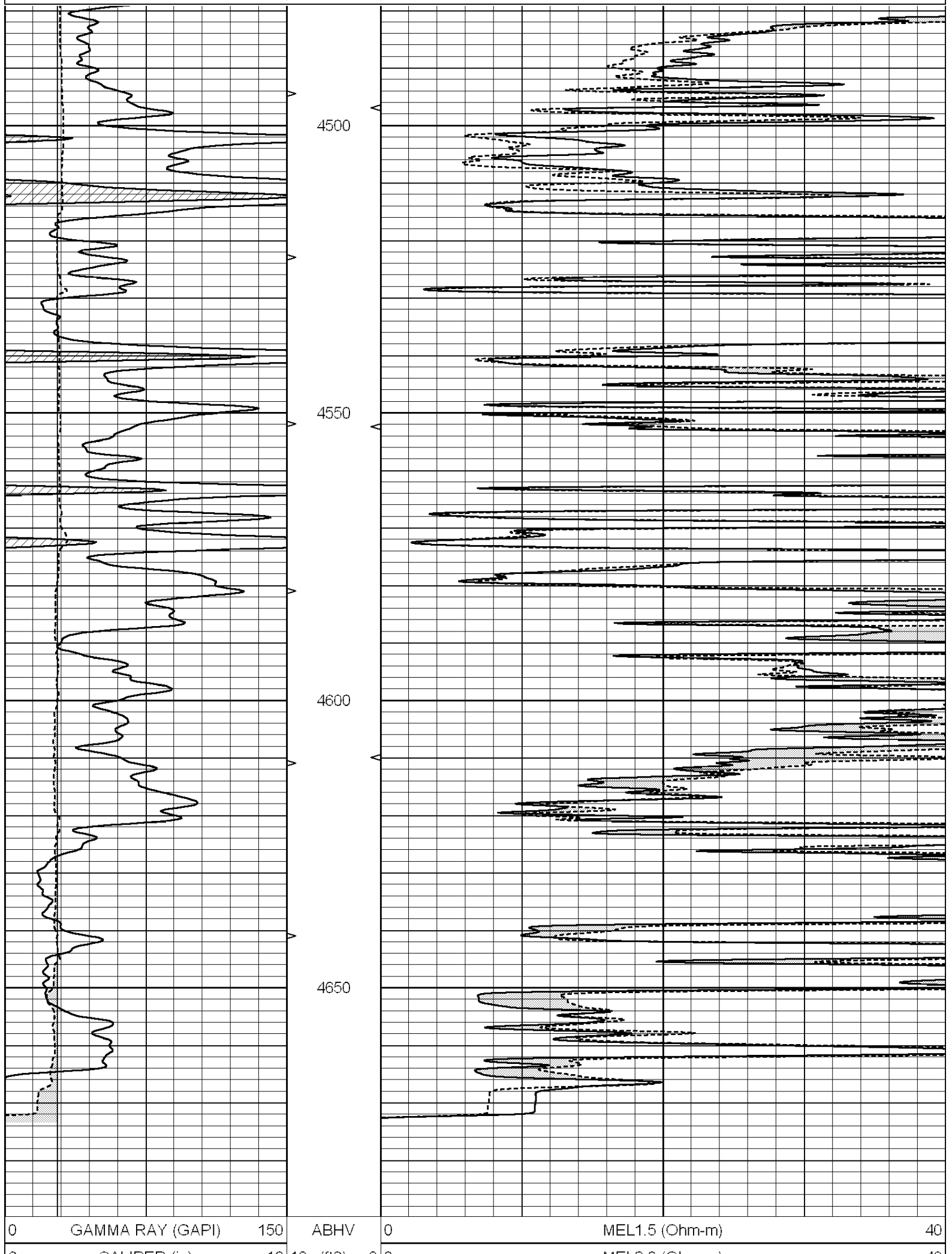


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REPEAT SECTION

Database File: 005931ddn.db
 Dataset Pathname: pass5.3
 Presentation Format: _micro
 Dataset Creation: Sat Oct 09 02:39:54 2010 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		



0	CALIPER (in)	10	10 (ft3)	0 0	MILLER (CHIMP)	40
			TBHV			
			0 (ft3)	10		

Calibration Report			
Database File:	005931ddn.db		
Dataset Pathname:	pass6.1		
Dataset Creation:	Sat Oct 09 03:02:40 2010 by Calc Open-Cased 090629		
MICRO Calibration Report			
Serial Number:	MICRO6		
Tool Model:	PROBE		
Performed:	Thu Oct 07 12:34:51 2010		
Caliper Calibration:	Gain=5.039	Offset=1.509	
	Low Cal	High Cal	
References	8.000	14.000	
Readings	1.401	2.546	
1.5" Calibration:	Gain=40.781	Offset=-0.851	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.008	1.200	
2" Calibration:	Gain=75.739	Offset=-2.193	
	Low Cal	High Cal	
References	0.000	20.000	
Readings	0.008	0.888	
Gamma Ray Calibration Report			
Serial Number:	GR6		
Tool Model:	OPEN		
Performed:	Wed Jul 14 14:14:30 2010		
Calibrator Value:	150.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	276.0	cps	
Sensitivity:	0.5335	GAPI/cps	