



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY/NEUTRON
LOG**

Company		RITCHIE EXPLORATION, INC.	
Well		#4 JOSEPH	
Field		ANTELOPE RIDGE	
County		GOVE	
State		KANSAS	
Location:		API # : 15-063-22185-0000	
SEC 30 TWP 15S RGE 31W		DIL	
1200' FNL & 600' FEL		Other Services	
Permanent Datum		GROUND LEVEL	
Log Measured From		Elevation	
KELLY BUSHING 8' A.G.L.		K.B. 2876	
Drilling Measured From		D.F. 2874	
KELLY BUSHING		G.L. 2868	
Date	3/16/14		
Run Number	ONE		
Depth Driller	4575		
Depth Logger	4578		
Bottom Logged Interval	4554		
Top Log Interval	3500		
Casing Driller	8 5/8" @ 222		
Casing Logger	NA		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4100 PPM	
Density / Viscosity	9.1/48		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.70 @ 78F		
Rmt @ Meas. Temp	.52 @ 78F		
Rmc @ Meas. Temp	.84 @ 78F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.45 @ 121F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	8:45 P.M.		
Maximum Recorded Temperature	121F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	BOB PETERSON		

<<< Fold Here >>>

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:
OAKLEY, KS. - 11 SOUTH TO GOVE RD. - 3 EAST - 4 SOUTH - WEST INTO

Database File:

24013ddn.db

Dataset Pathname:

pass3.1

Presentation Format:

den_neu

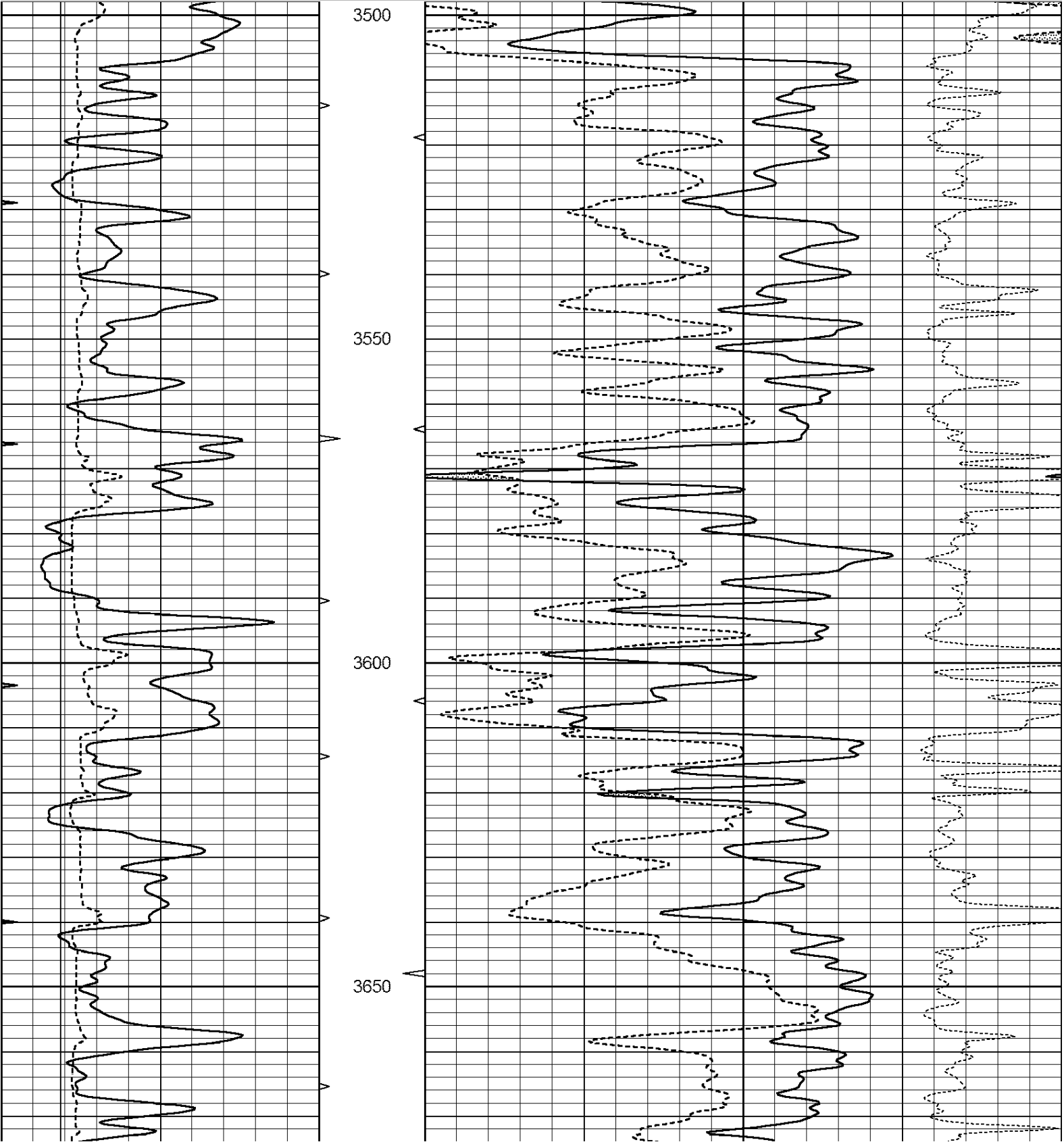
Dataset Creation:

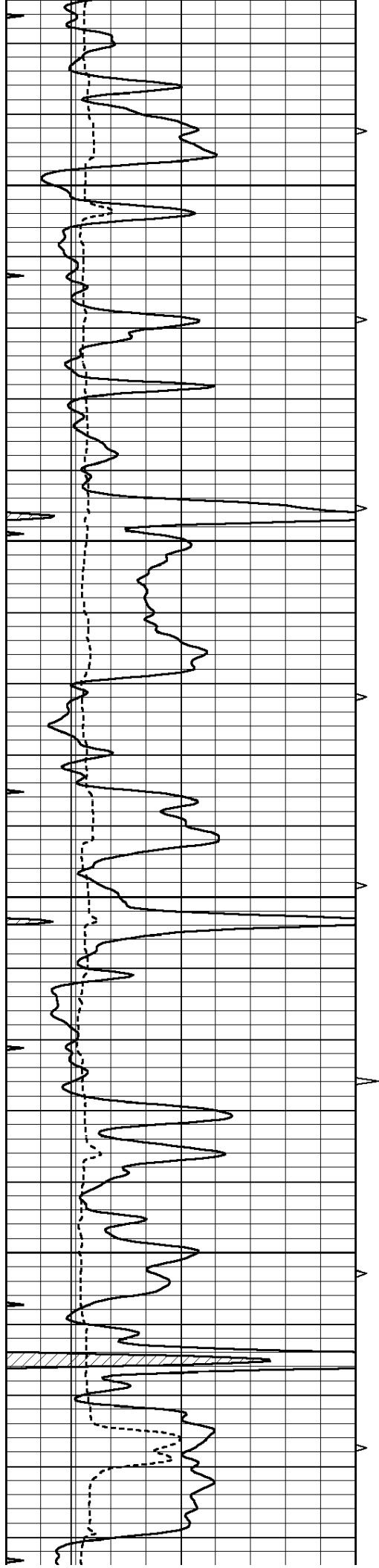
Sun Mar 16 21:37:31 2014 by Calc Open-Cased 090629

Charted by:

Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		



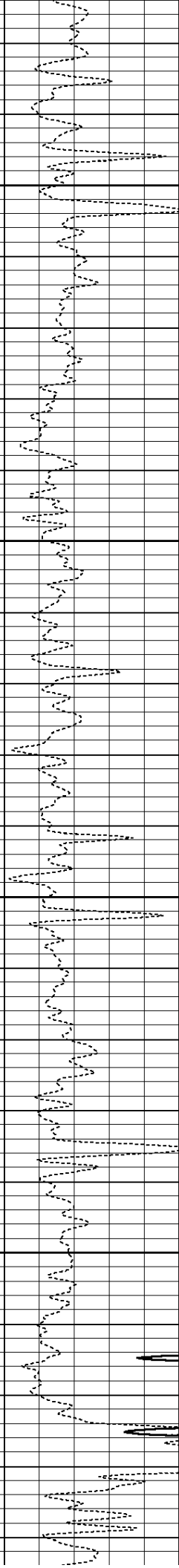
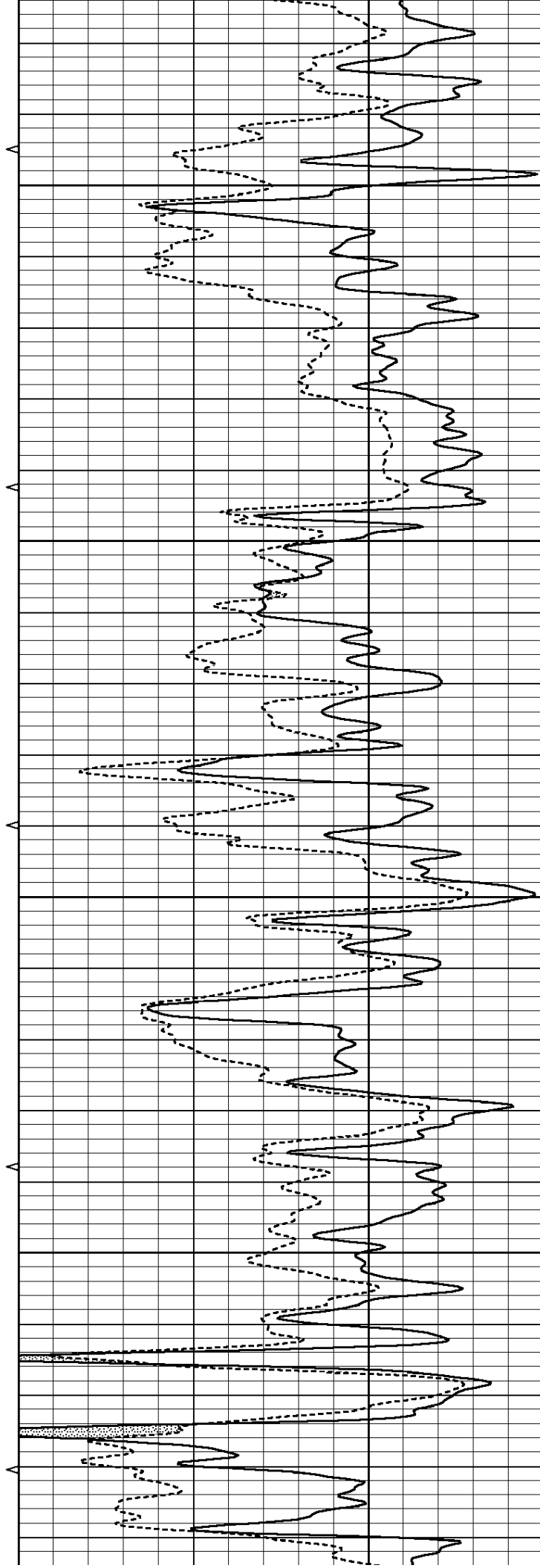


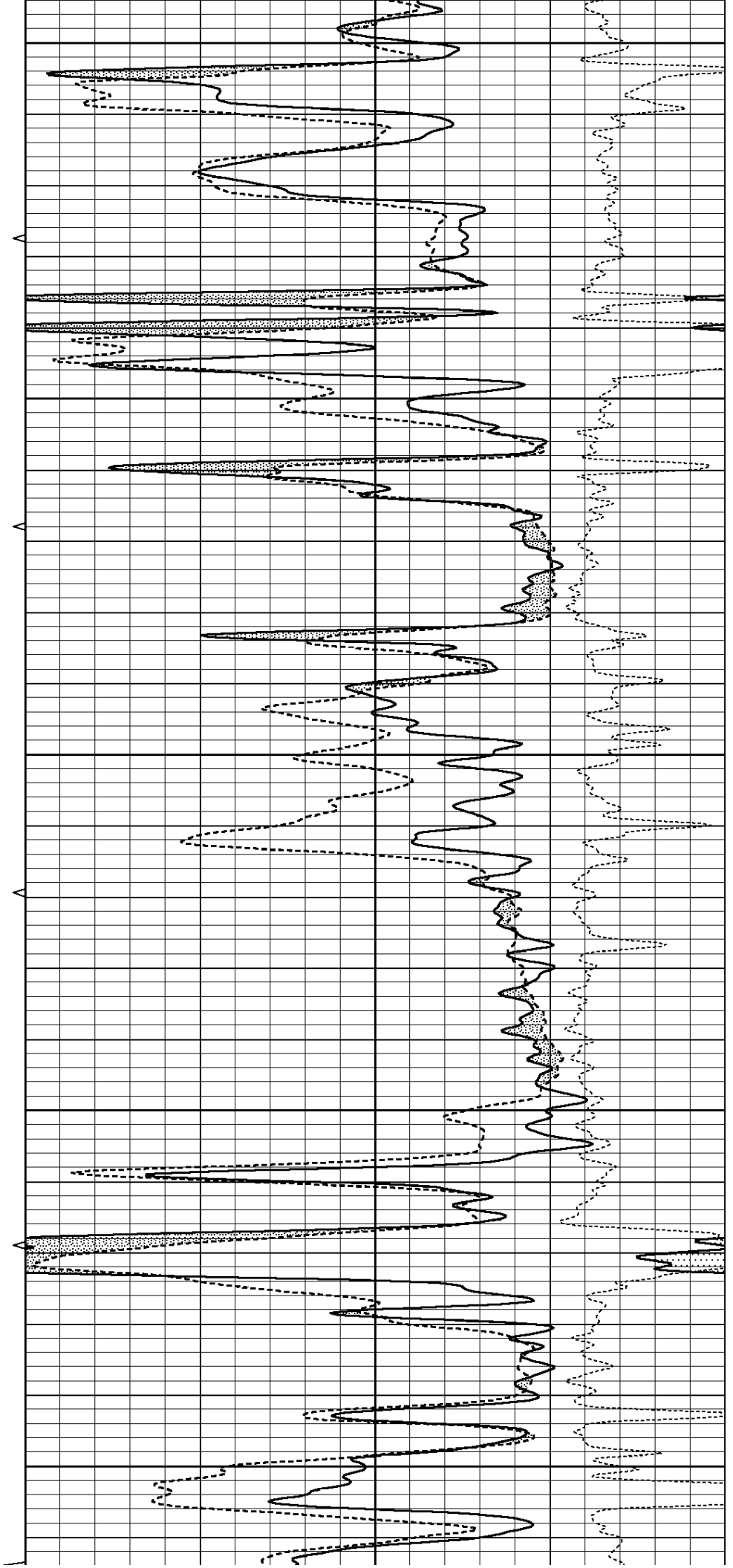
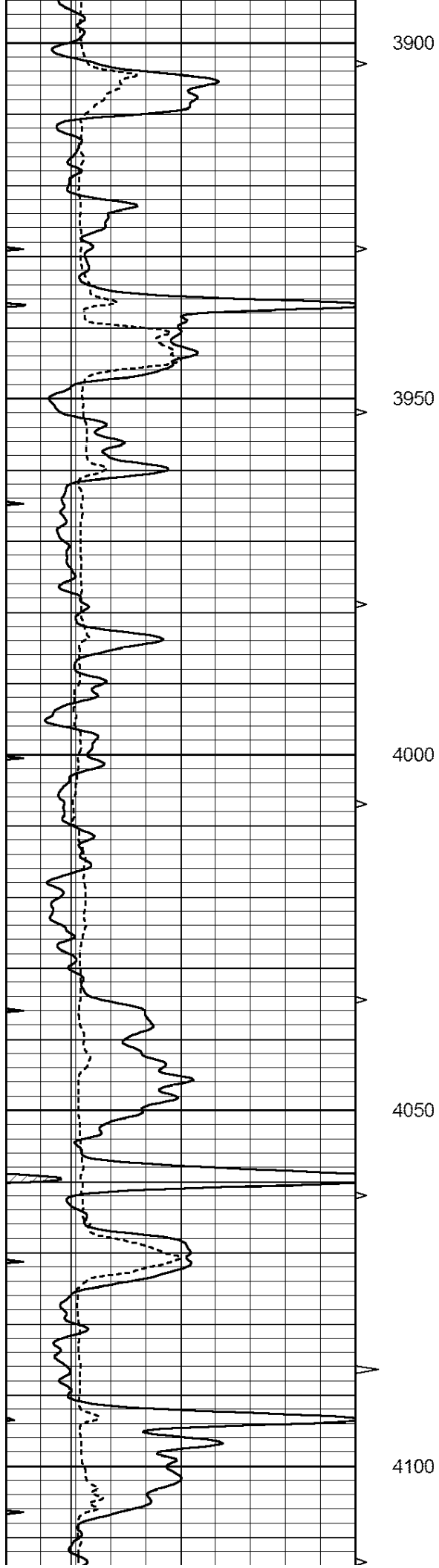
3700

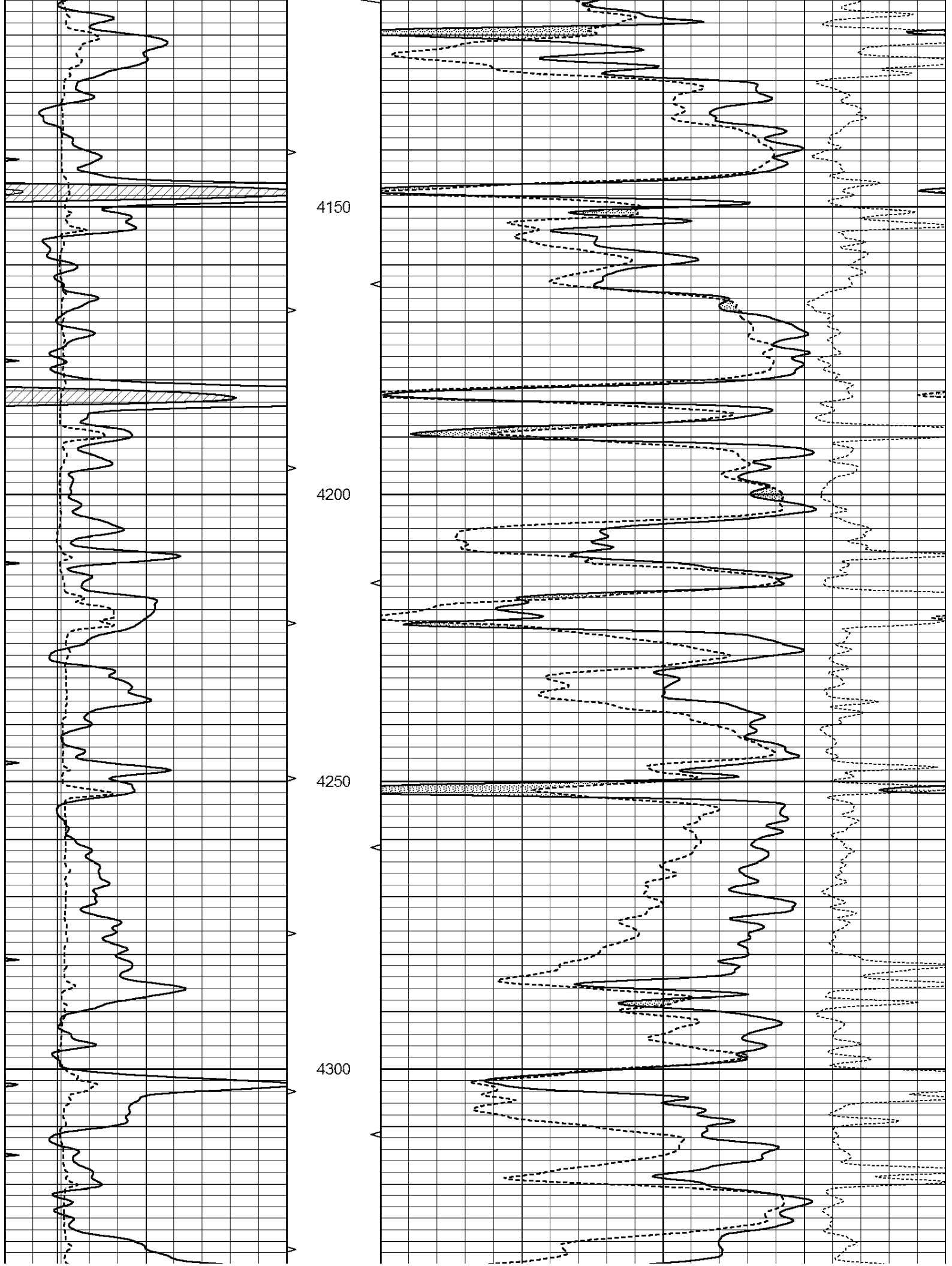
3750

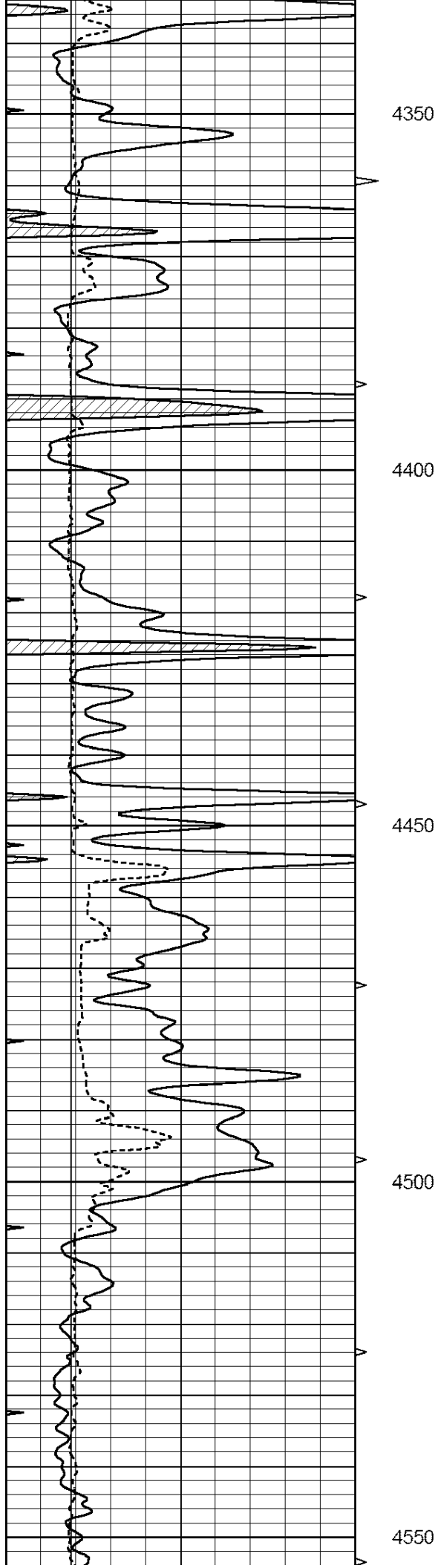
3800

3850









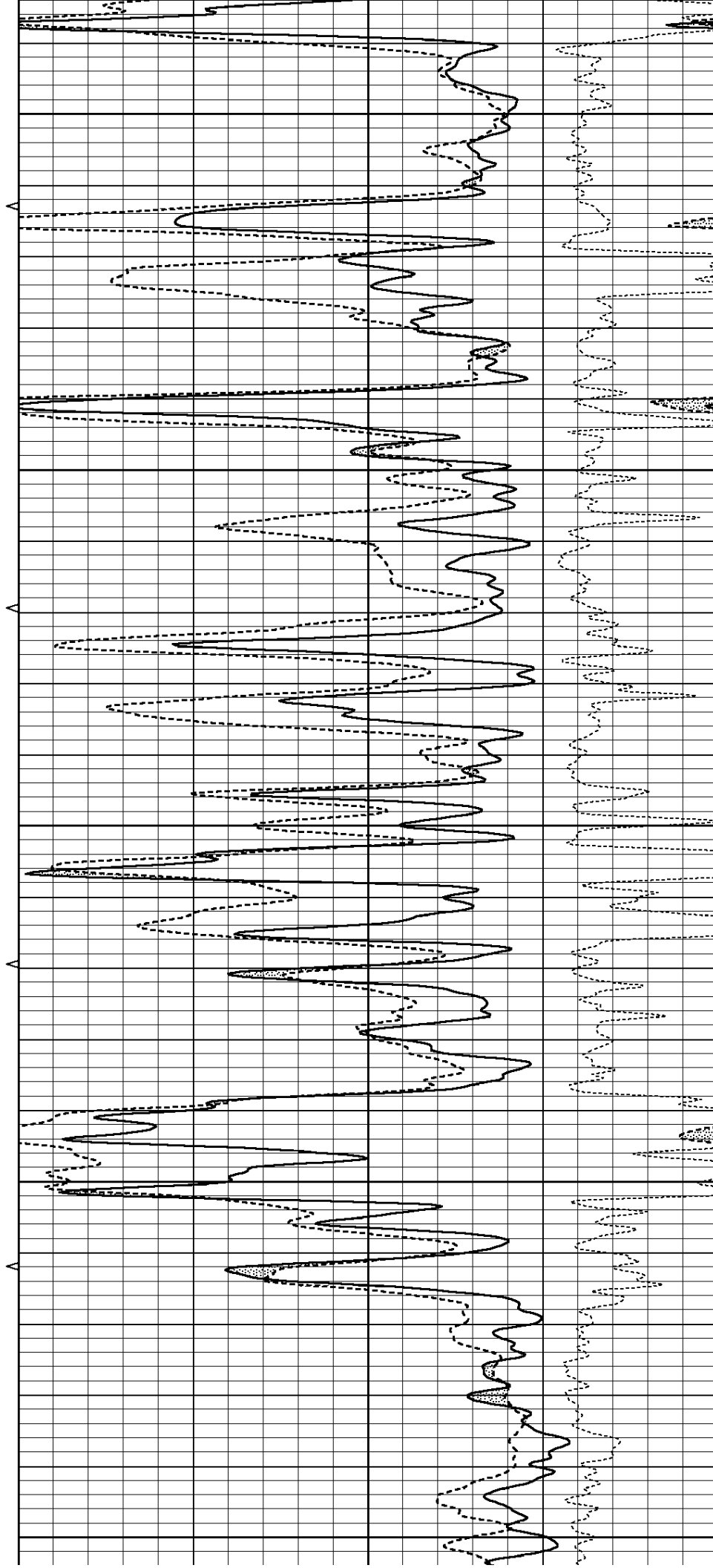
4350

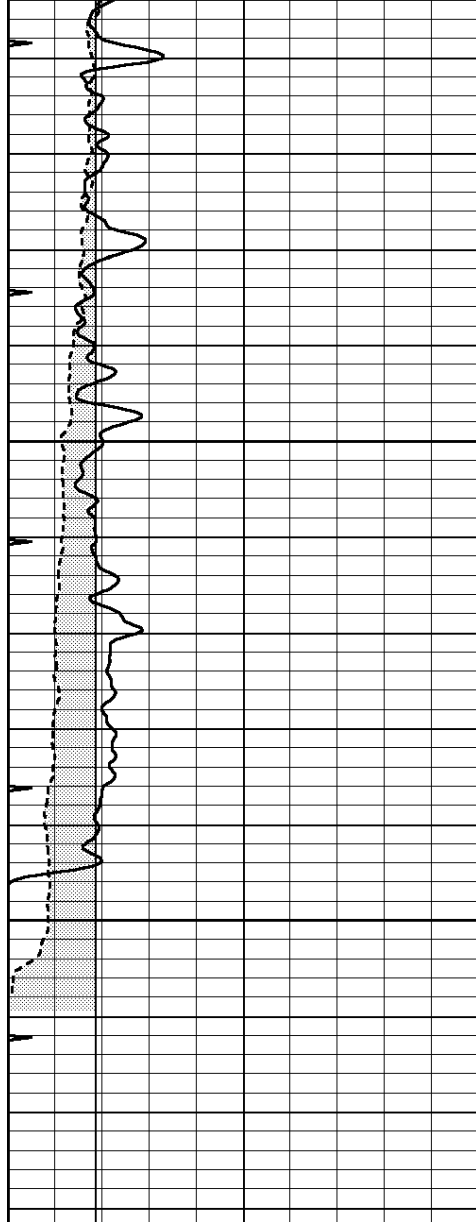
4400

4450

4500

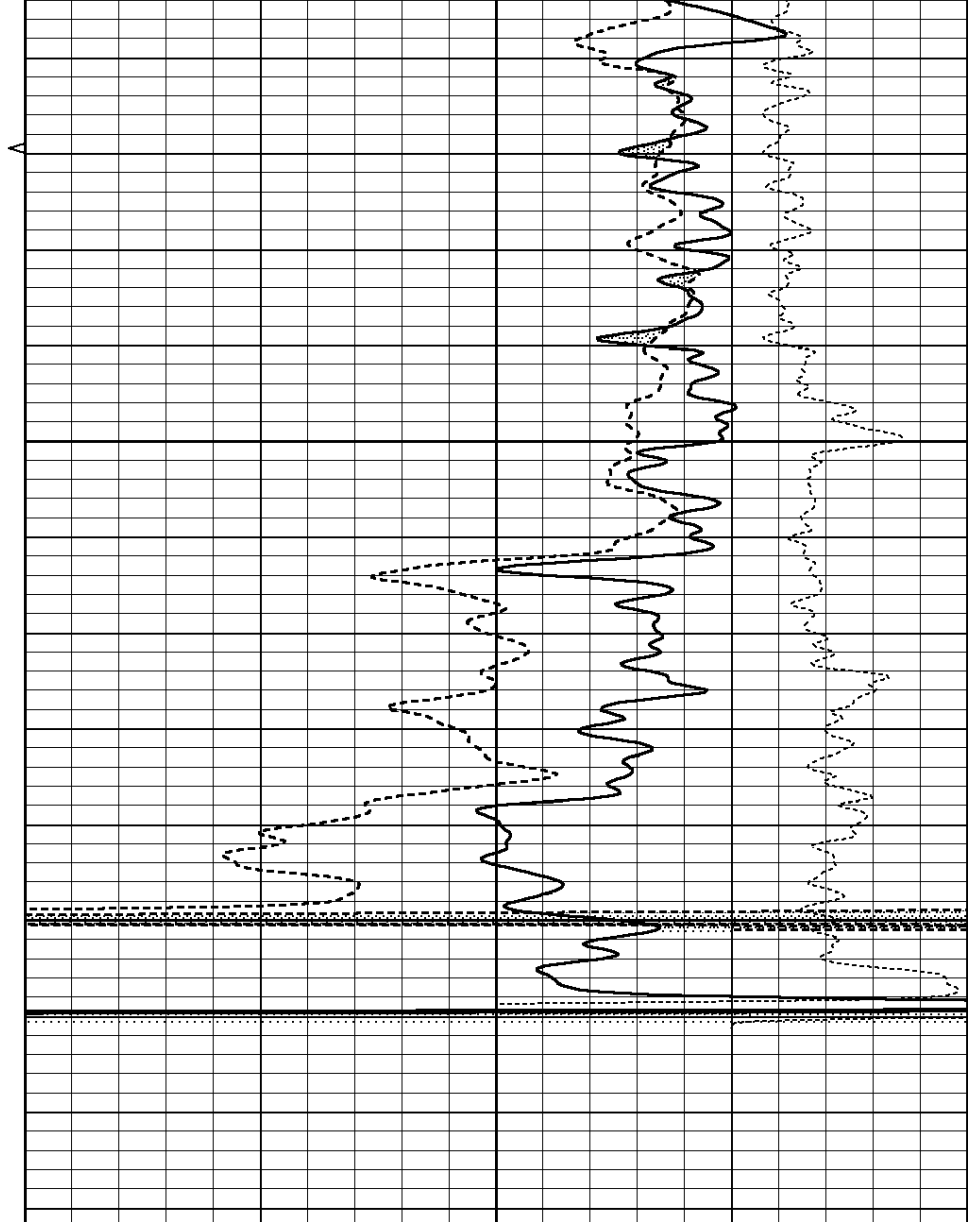
4550





4600

4650



0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		