



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	#1 EDWARDS 17B		
Field	WILDCAT		
County	LOGAN	State	KANSAS
Company	RITCHIE EXPLORATION, INC.	Well	#1 EDWARDS 17B
Field	WILDCAT	County	LOGAN
State	KANSAS	Location:	AP1 # : 15-109-21423-0000 910' FNL & 1400' FWL
Permanent Datum	GROUND LEVEL	Elevation	3266
Log Measured From	KELLY BUSHING 5' A.G.L.	Other Services	CDL/CNL MEL
Drilling Measured From	KELLY BUSHING	Elevation	K.B. 3271 D.F. 3269 G.L. 3266
Date	7/30/15	SEC 17	TWP 15S RGE 35W
Run Number	ONE		
Depth Driller	4910		
Depth Logger	4911		
Bottom Logged Interval	4909		
Top Log Interval	00		
Casing Driller	8 5/8" @ 220		
Casing Logger			
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8000 PPM	
Density / Viscosity	9.3/57		
pH / Fluid Loss	10.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.70 @ 94F		
Rmt @ Meas. Temp	.52 @ 94F		
Rmc @ Meas. Temp	.84 @ 94F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.52 @ 126F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	126F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	MAX LOVELY		

<<< 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:

PENCE, KS. - 6 WEST TO RD 20 - 6 NORTH TO DAKOTA RD. - 2 MILES NORTH & WEST INTO

Database File:

30512ddn.db

Dataset Pathname:

pass4.1

Presentation Format:

_dil

Dataset Creation:

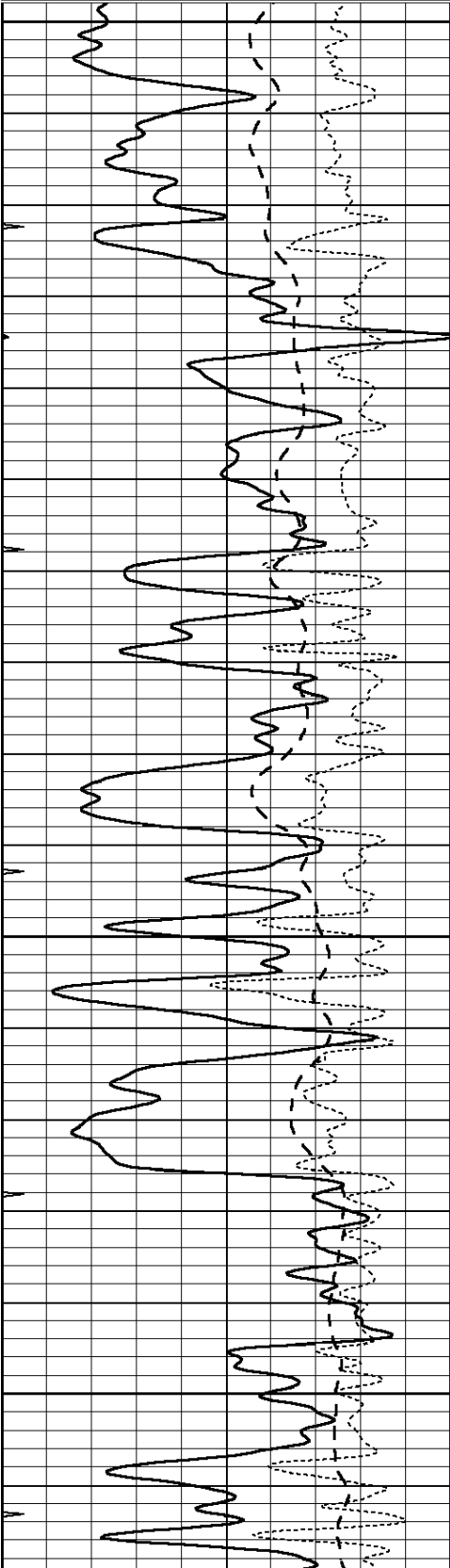
Thu Jul 30 21:17:03 2015 by Calc Open-Cased 090629

Charted by:

Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

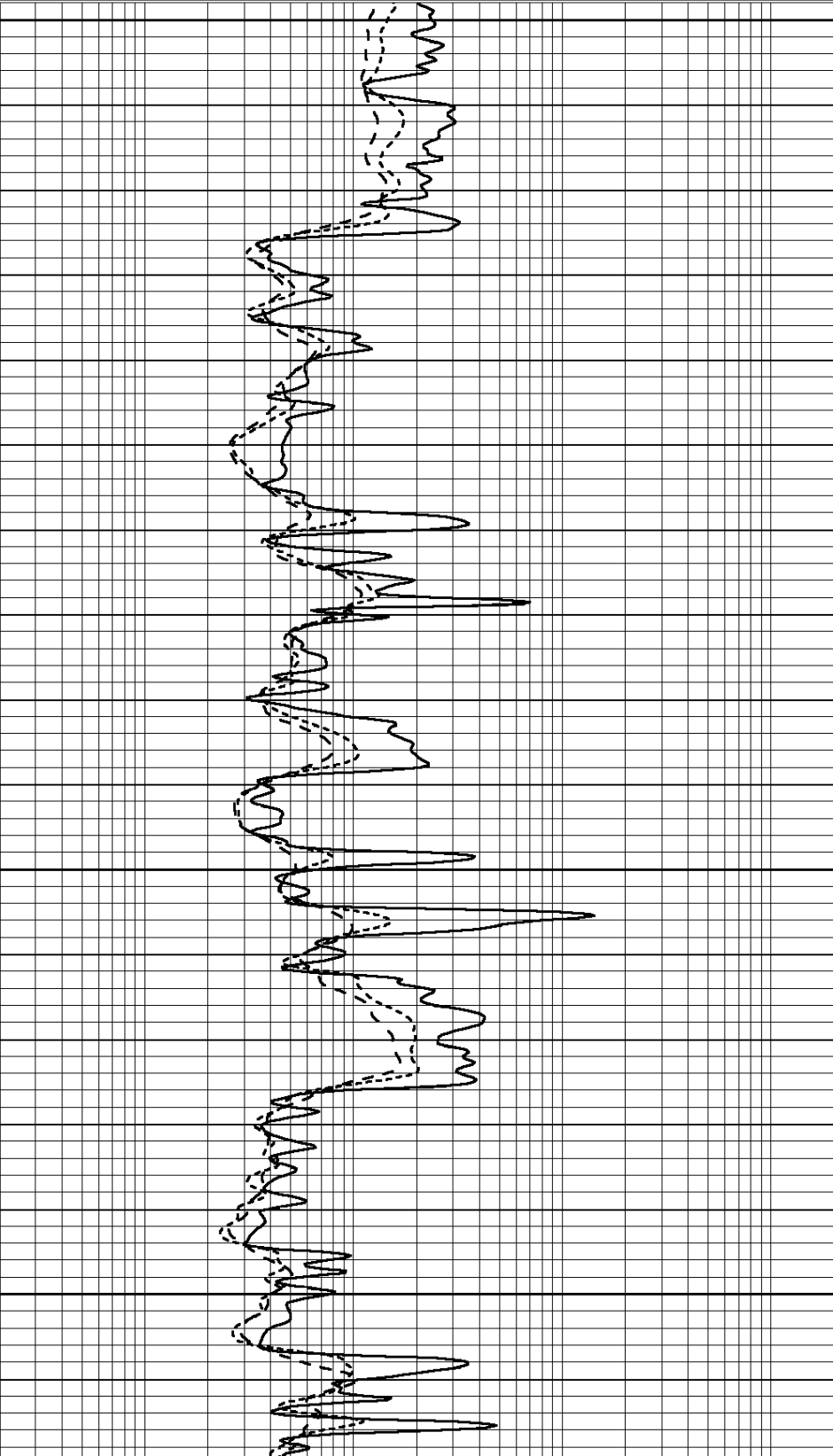


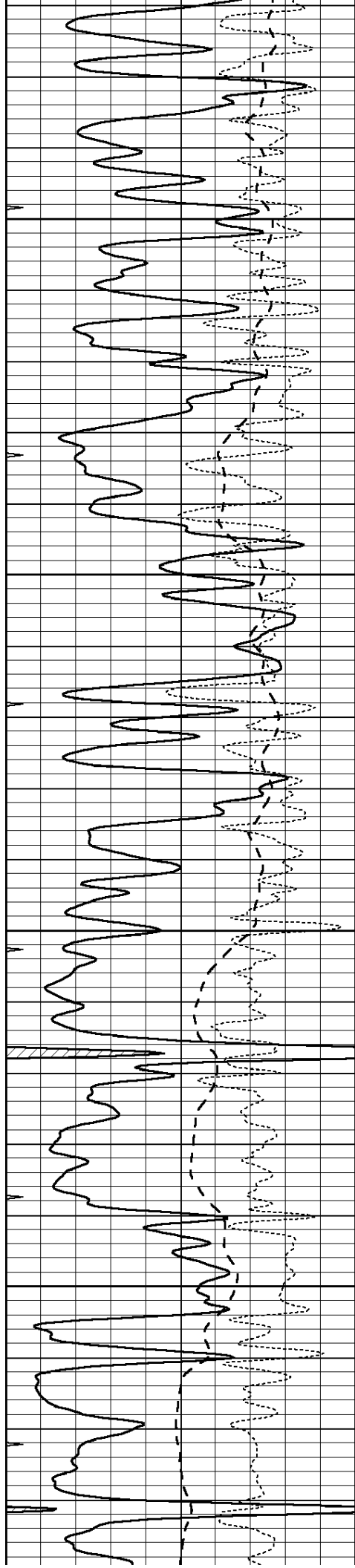
3500

3550

3600

3650



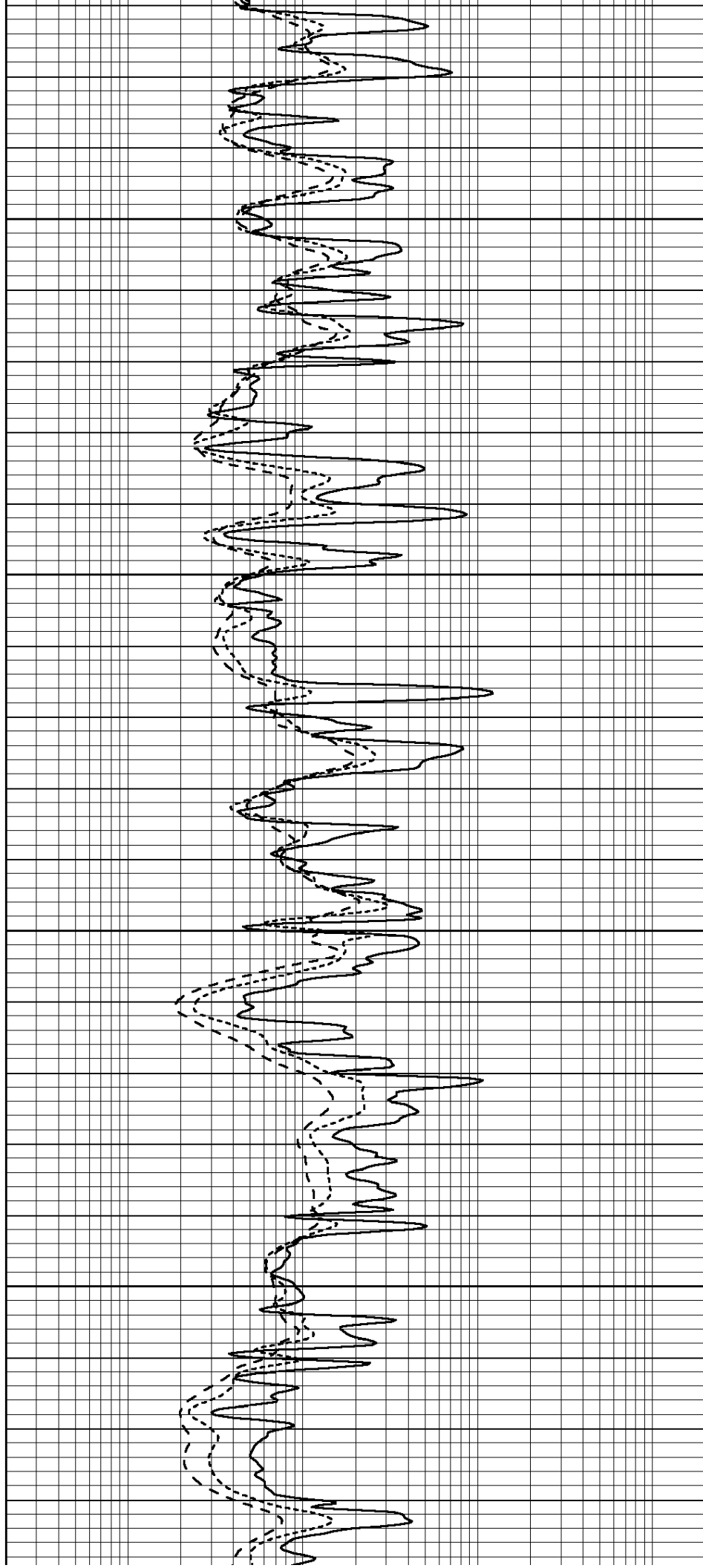


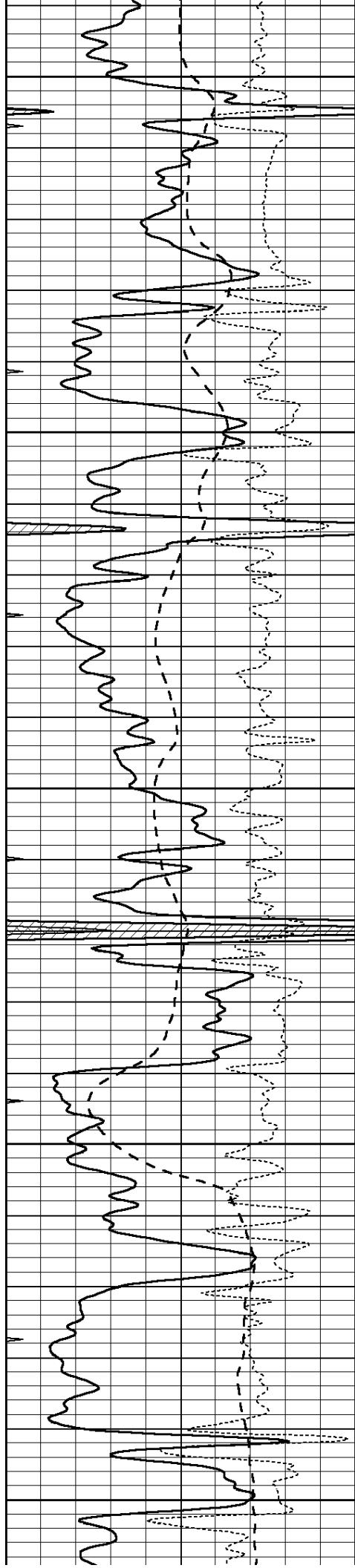
3700

3750

3800

3850





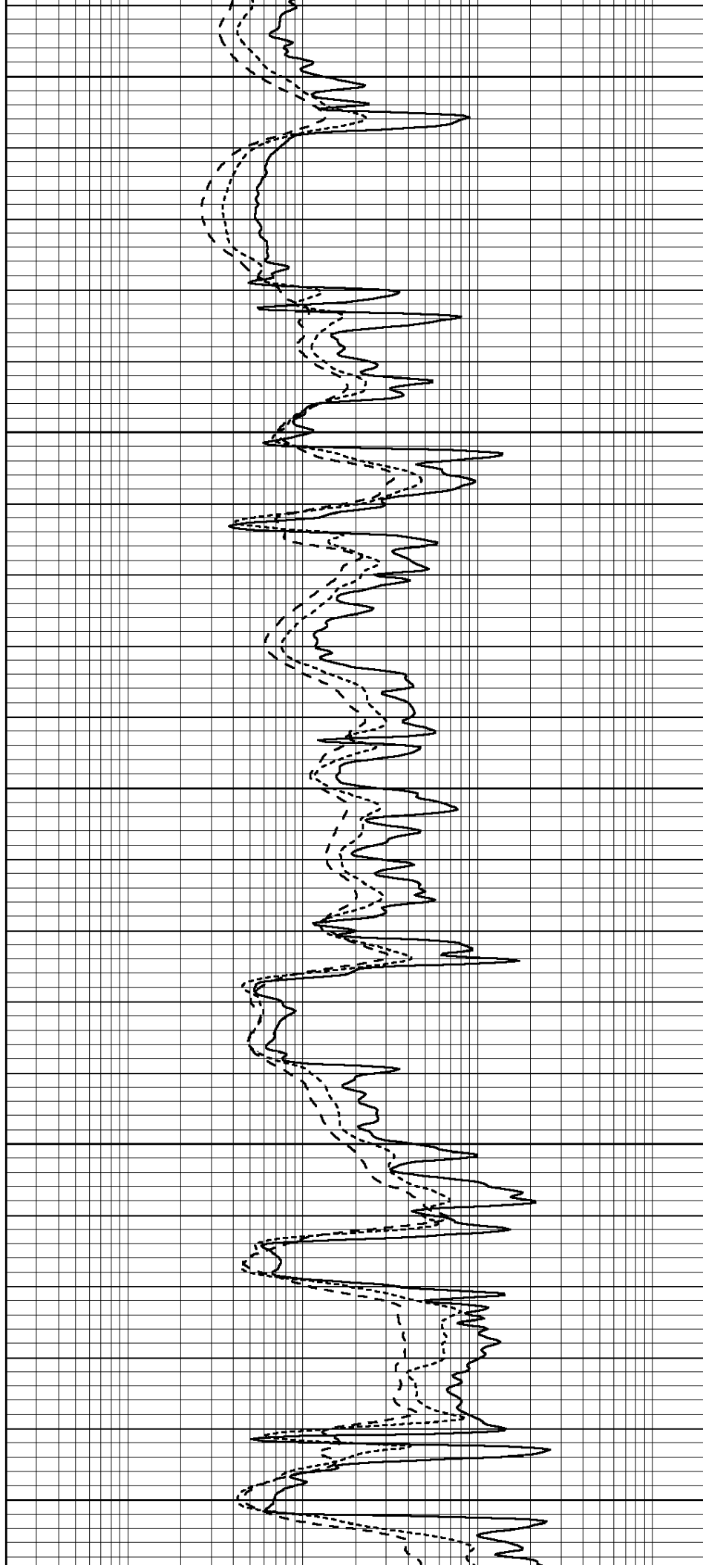
3900

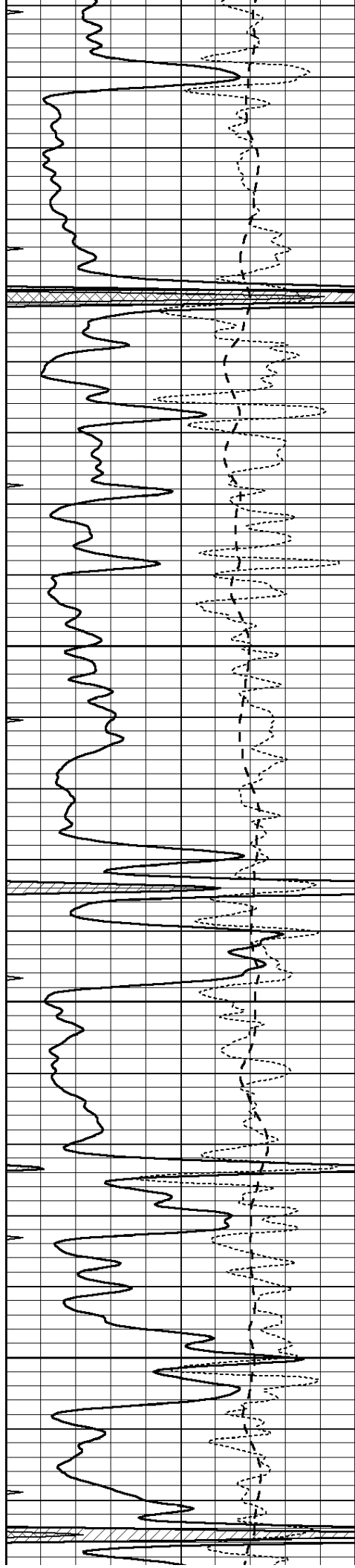
3950

4000

4050

4100



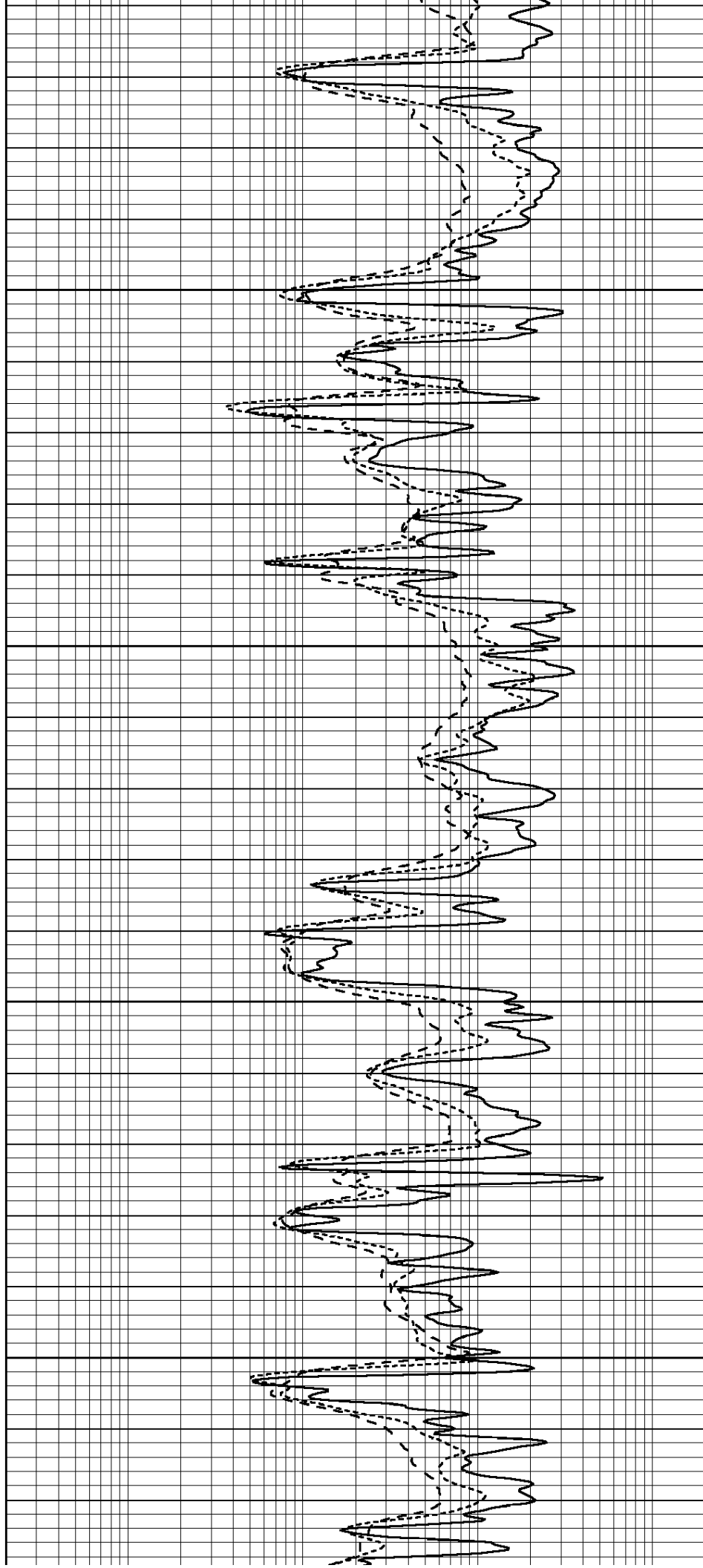


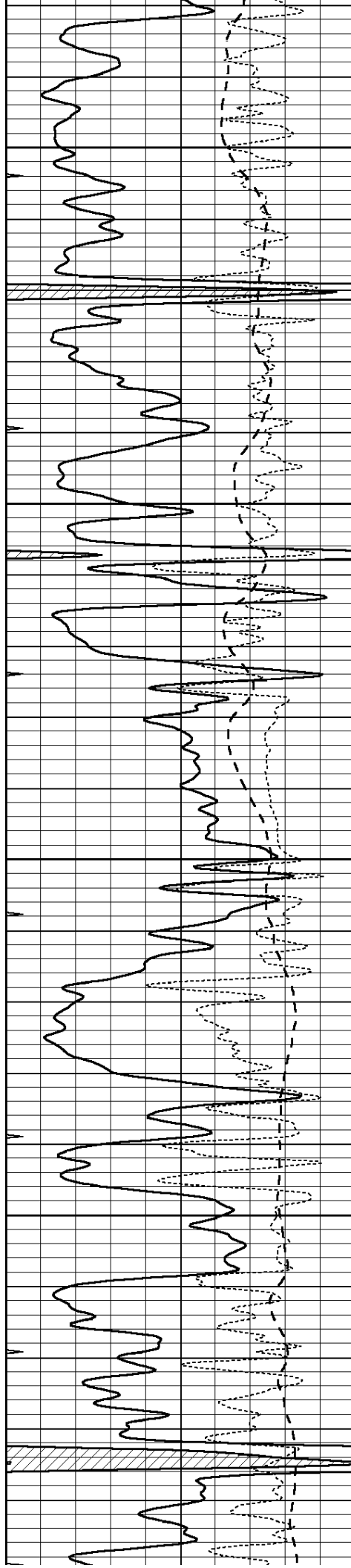
4150

4200

4250

4300



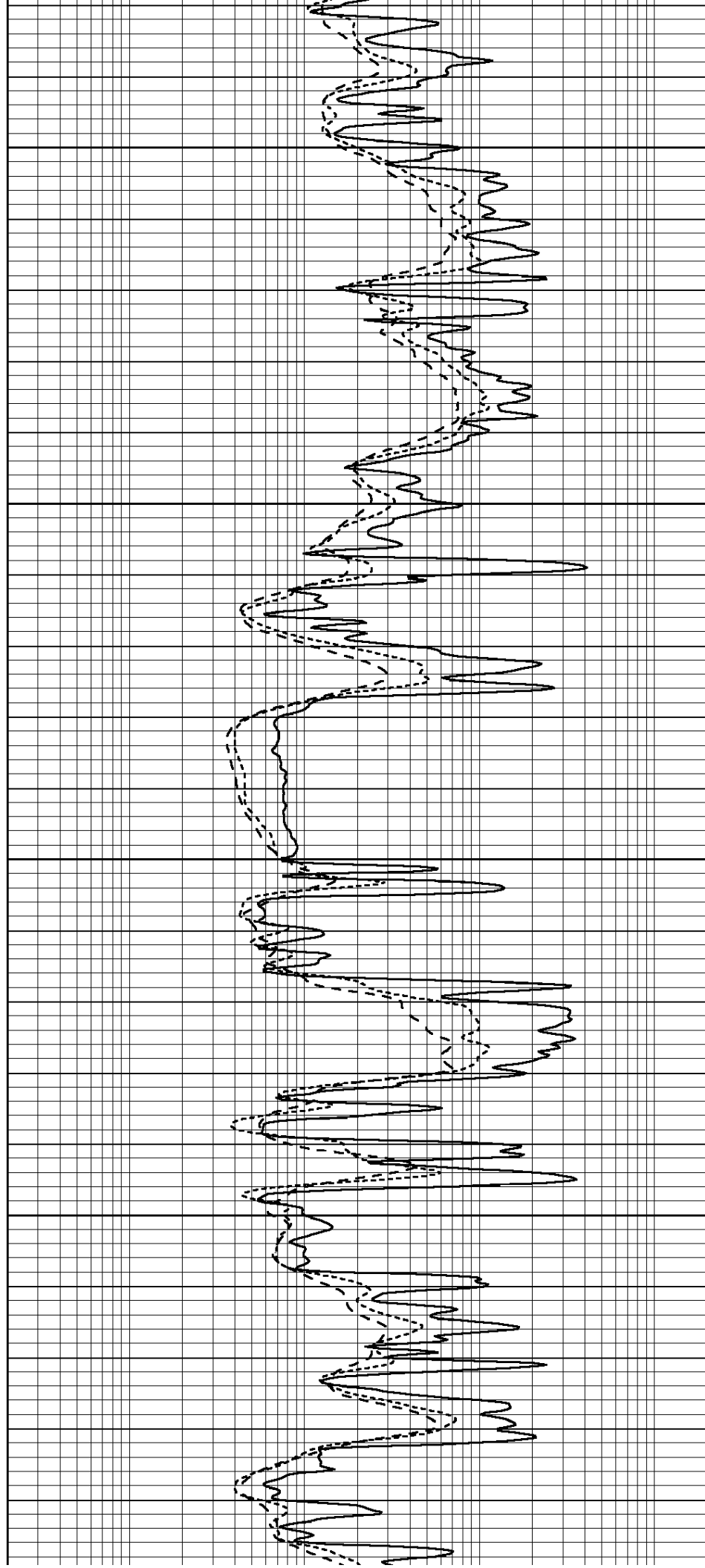


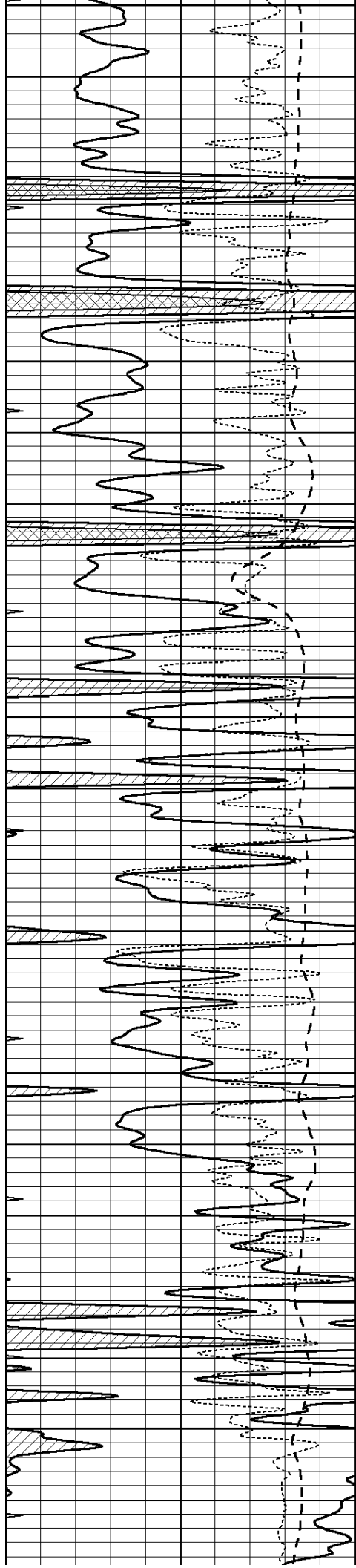
4350

4400

4450

4500





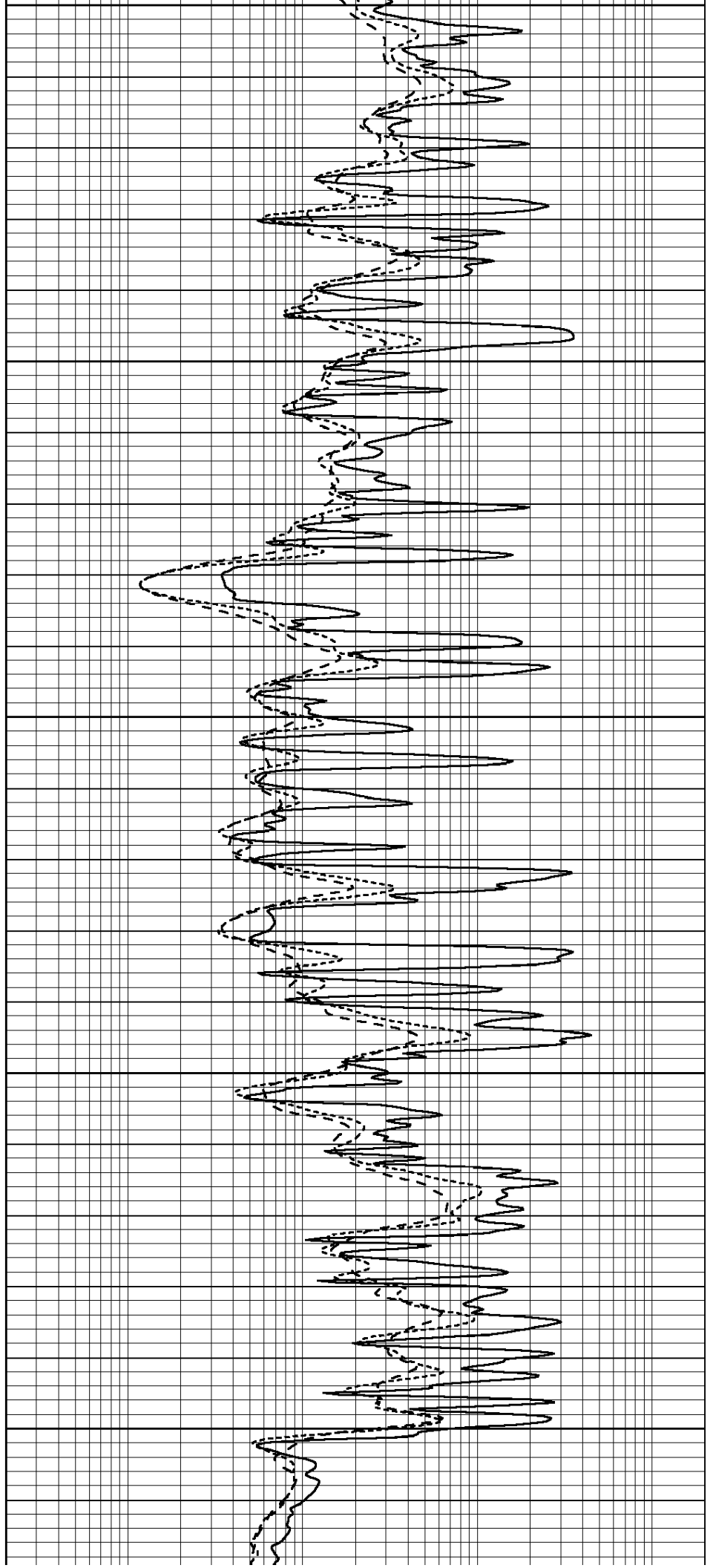
4550

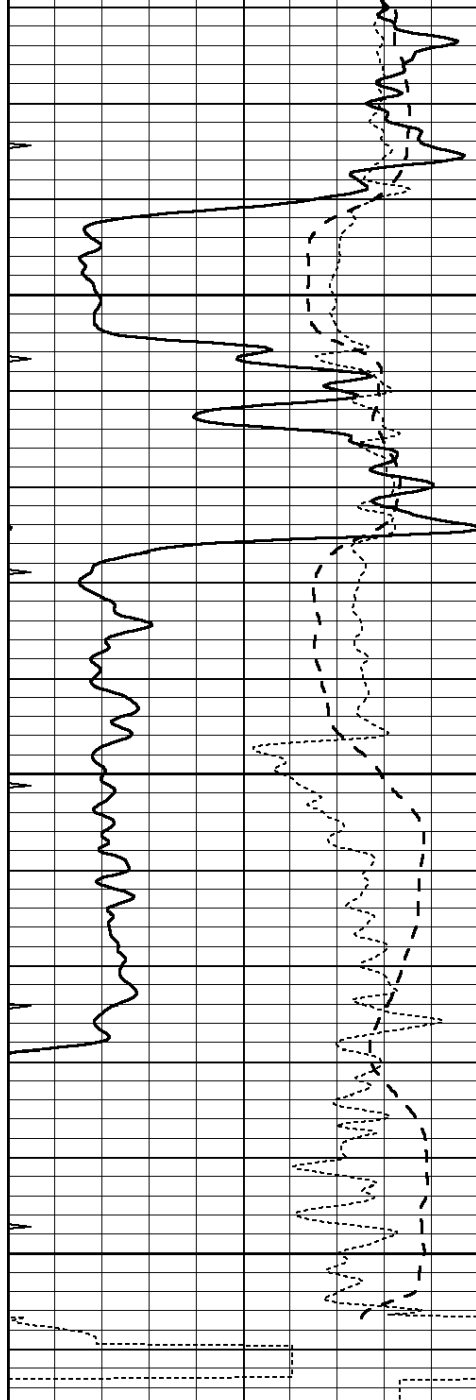
4600

4650

4700

4750



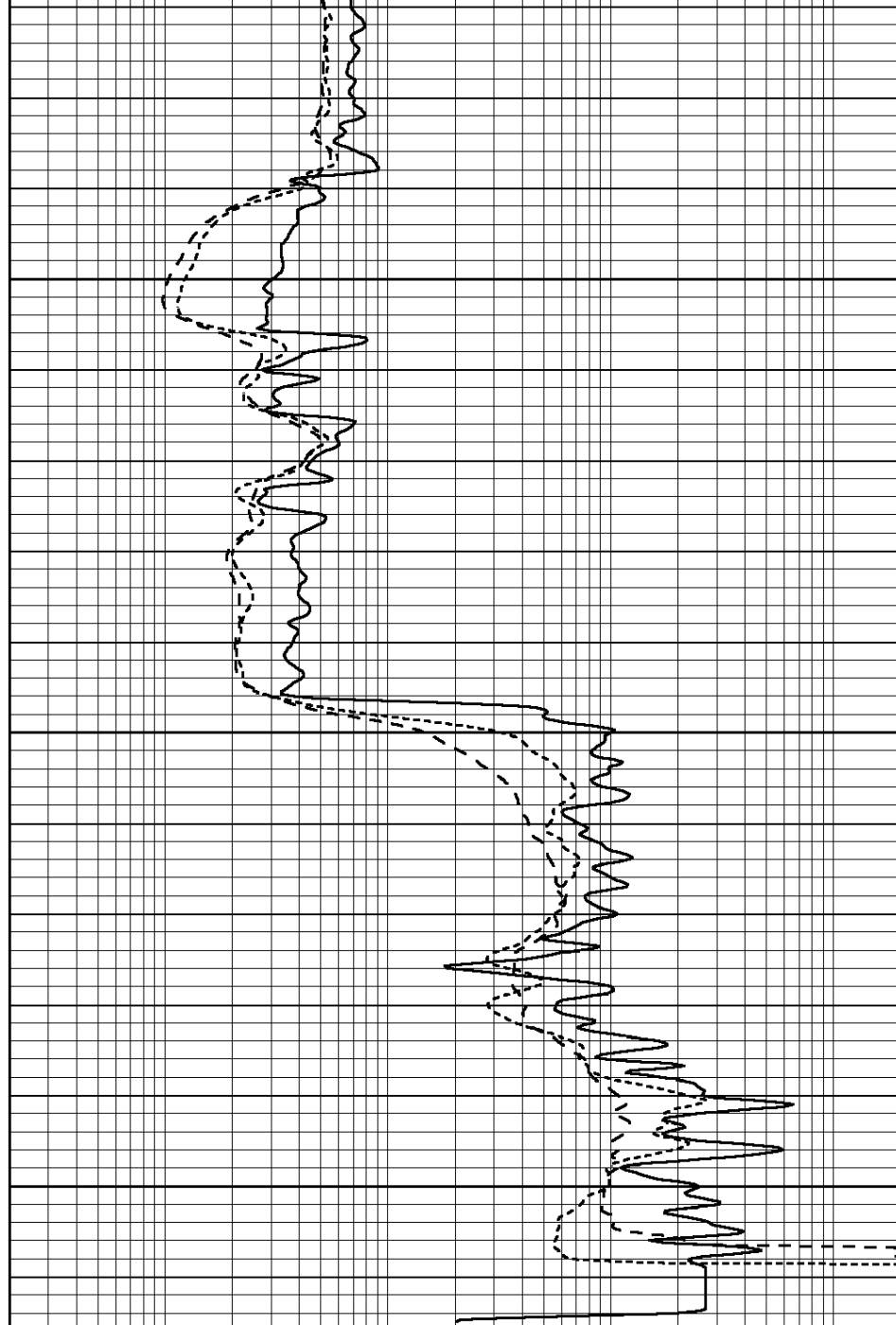


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

4800

4850

4900



0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000