



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company		RITCHIE EXPLORATION, INC.	
Well		FRINK 32 C #1	
Field		WILDCAT	
County		FORD	
State		KANSAS	
Location:		API # : 15-057-20925-00-00	
Permanent Datum		1380' FSL & 480' FWL	
Log Measured From		W2 - W2 - SW	
Drilling Measured From		SEC 32 TWP 28S RGE 23W	
Ground Level		Elevation 2514	
Kelly Bushing 11' A.G.L.		Elevation K.B. 2525 D.F. 2523 G.L. 2514	
Date		3-18-14	
Run Number		ONE	
Depth Driller		5420	
Depth Logger		5416	
Bottom Logged Interval		5392	
Top Log Interval		4000	
Casing Driller		8 5/8 @ 352'	
Casing Logger		348'	
Bit Size		7.875	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		8.9 / 52	
pH / Fluid Loss		9.0 / 10.8	
Source of Sample		FLOWLINE	
Rim @ Meas. Temp		0.70 @ 70F	
Rmf @ Meas. Temp		0.53 @ 70F	
Rmc @ Meas. Temp		0.84 @ 70F	
Source of Rmf / Rmc		MEASURED	
Rim @ BHT		0.38 @ 129F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom			
Maximum Recorded Temperature		129F	
Equipment Number		860	
Location		HAYS, KS.	
Recorded By		IAN MABB	
Witnessed By		ADAM ELDANI	

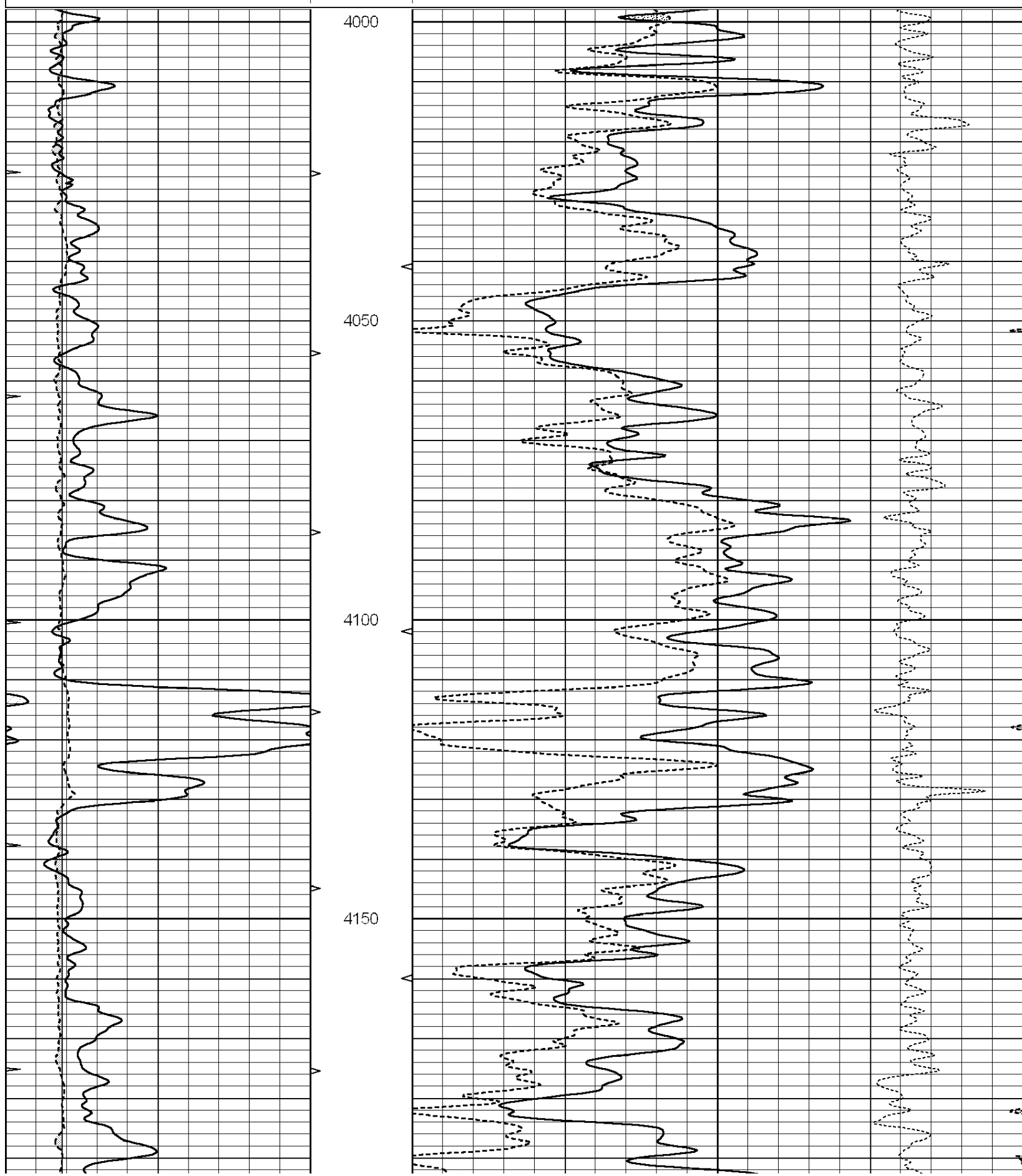
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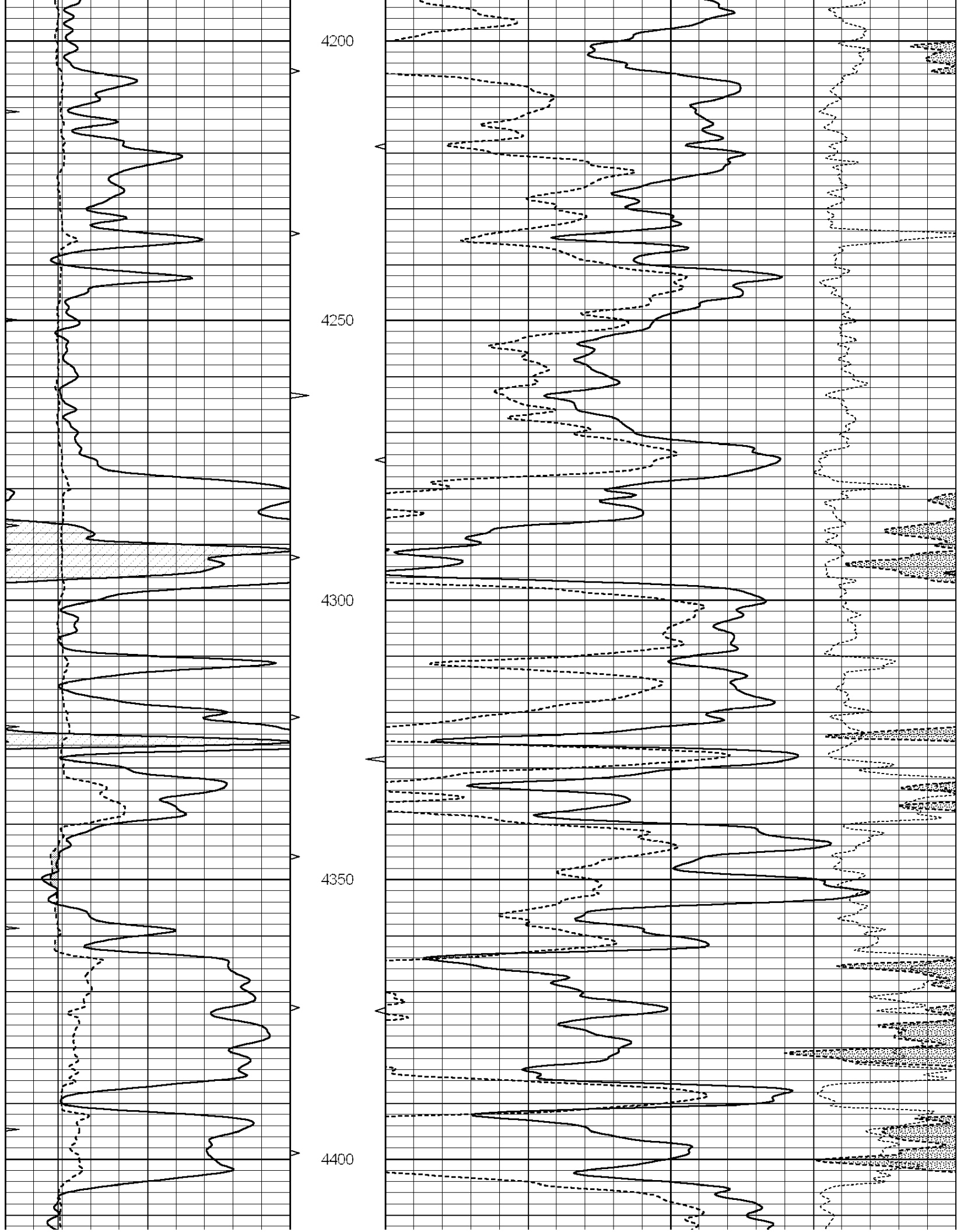
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

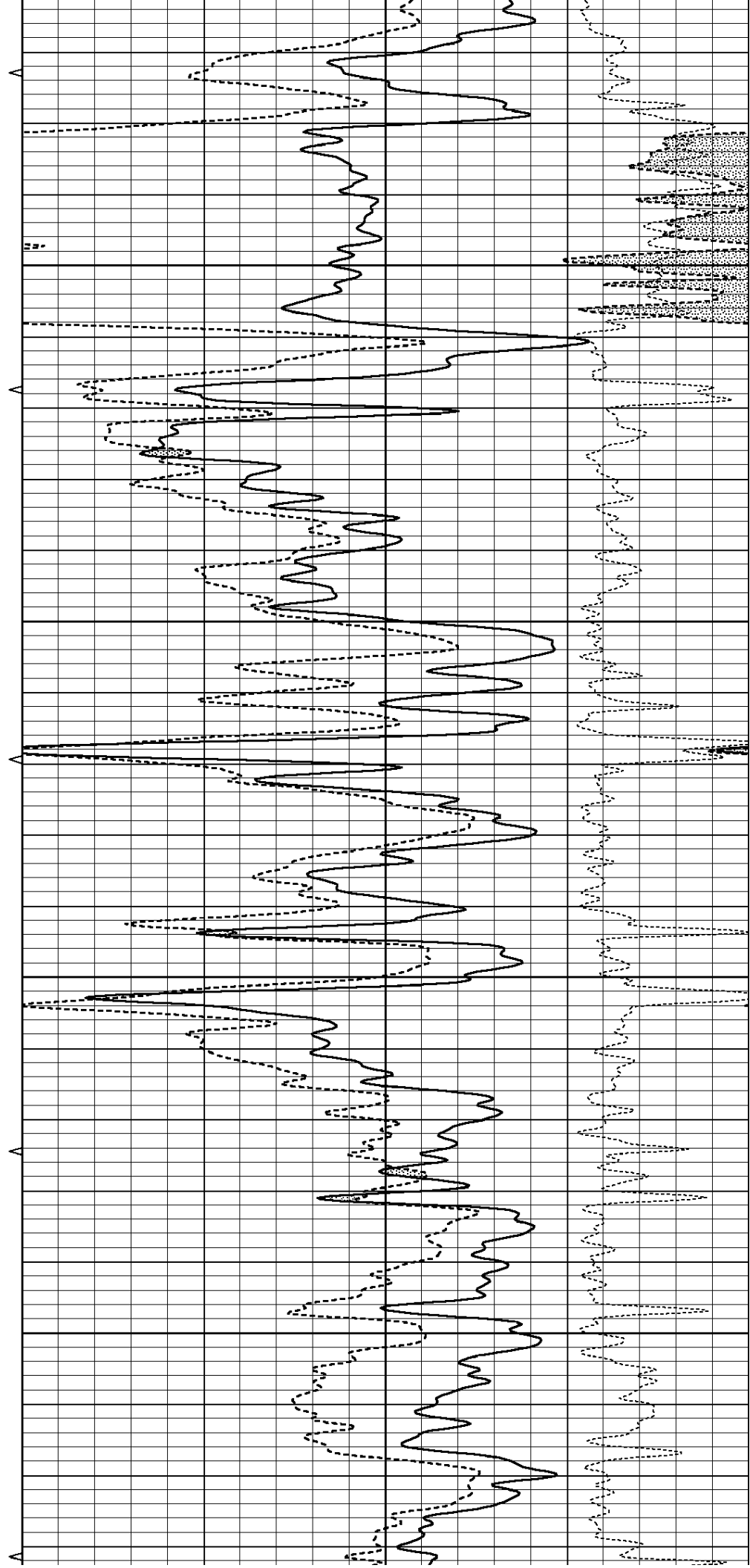
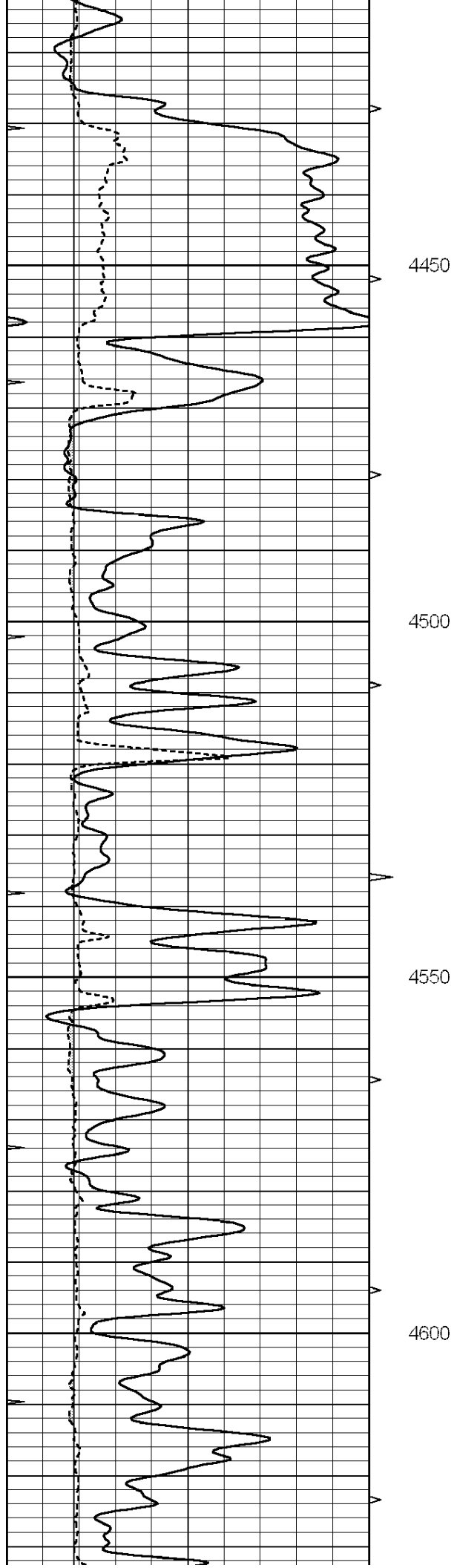
Comments

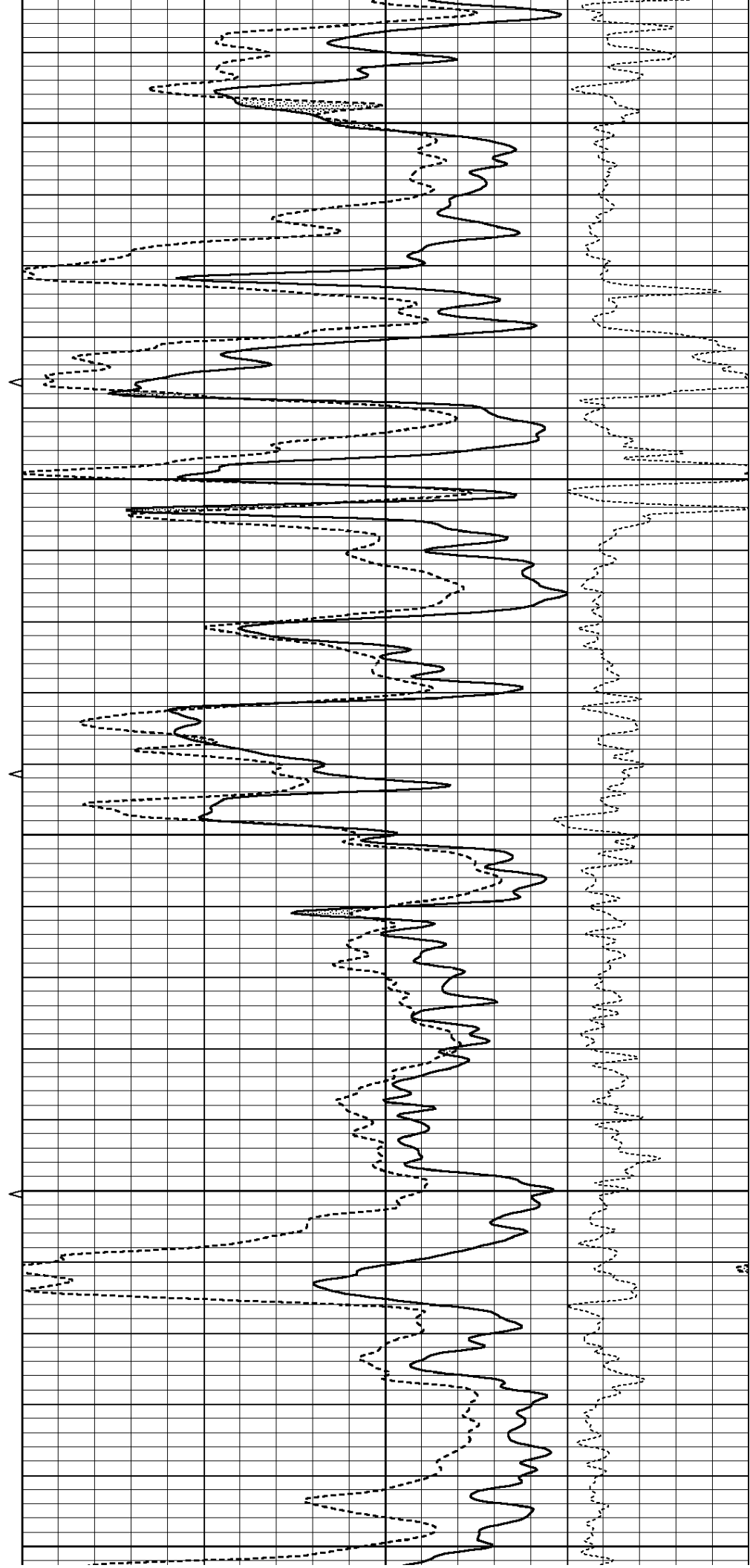
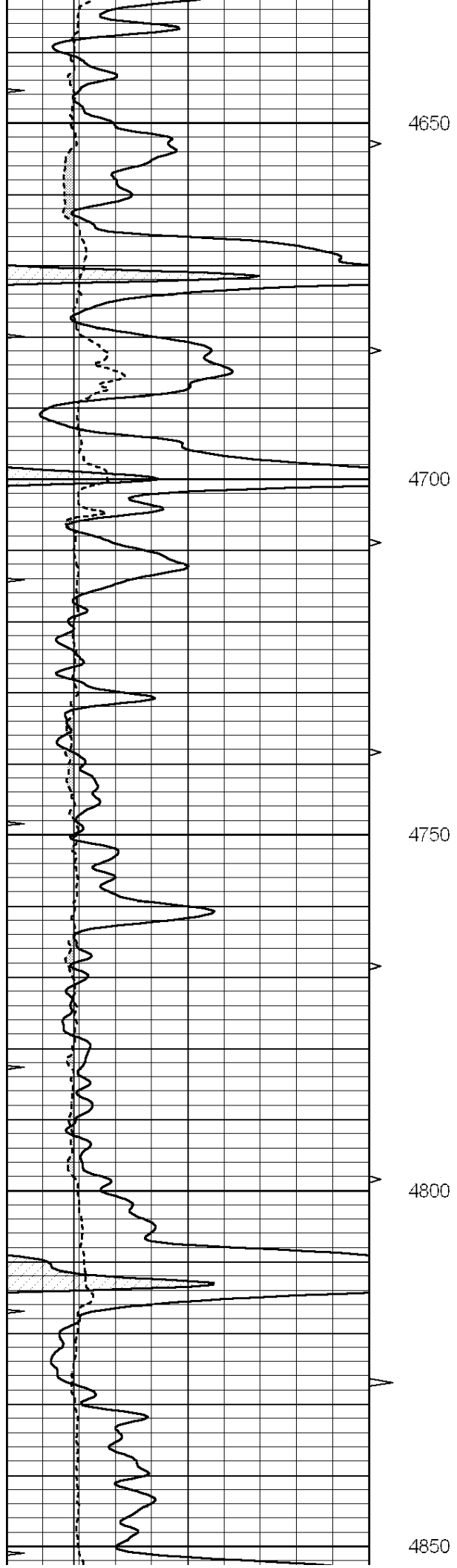
NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: FORD, KS. - SOUTH TO WILBURN RD. - 6 MILES WEST - NORTH INTO

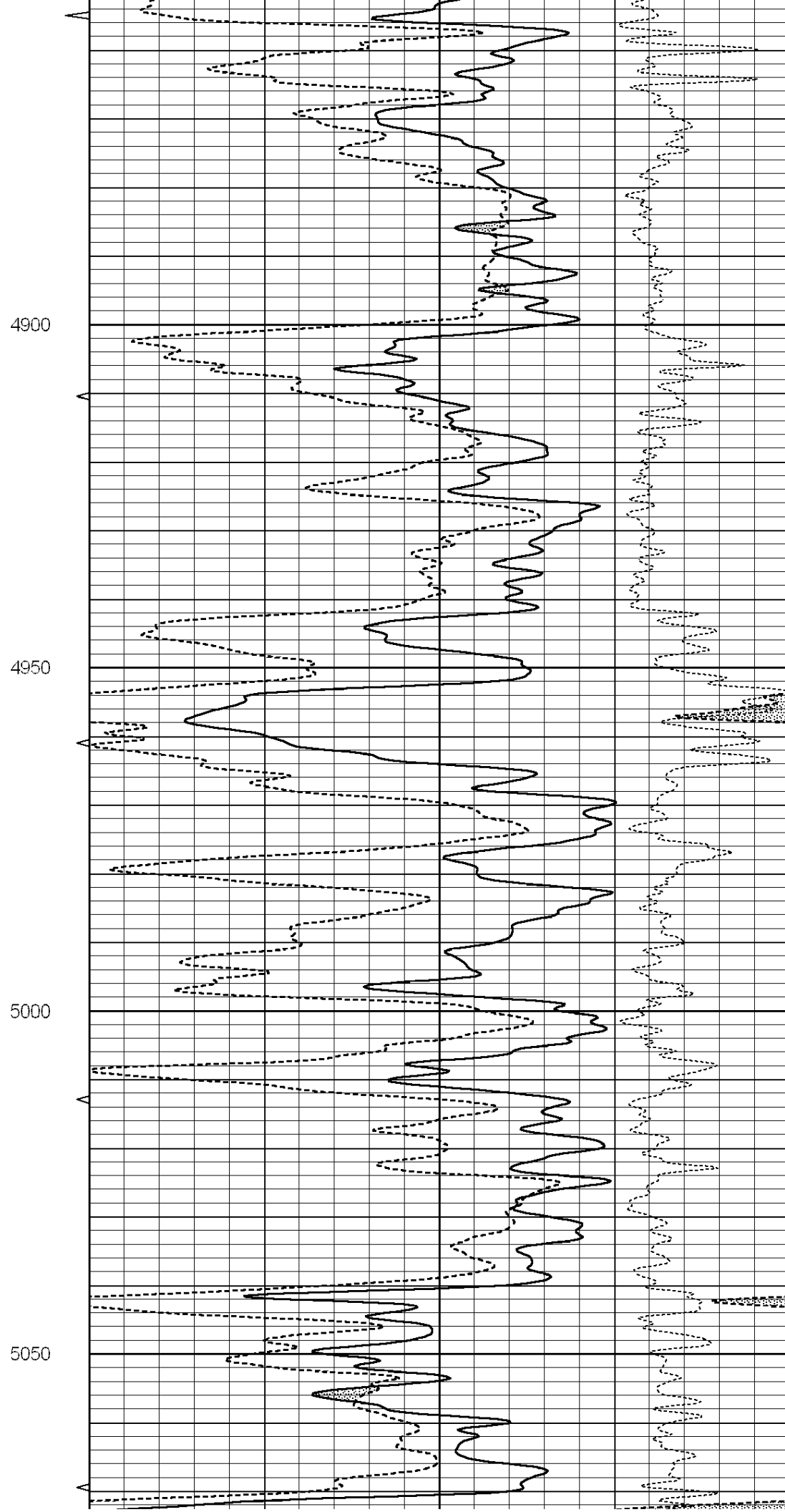
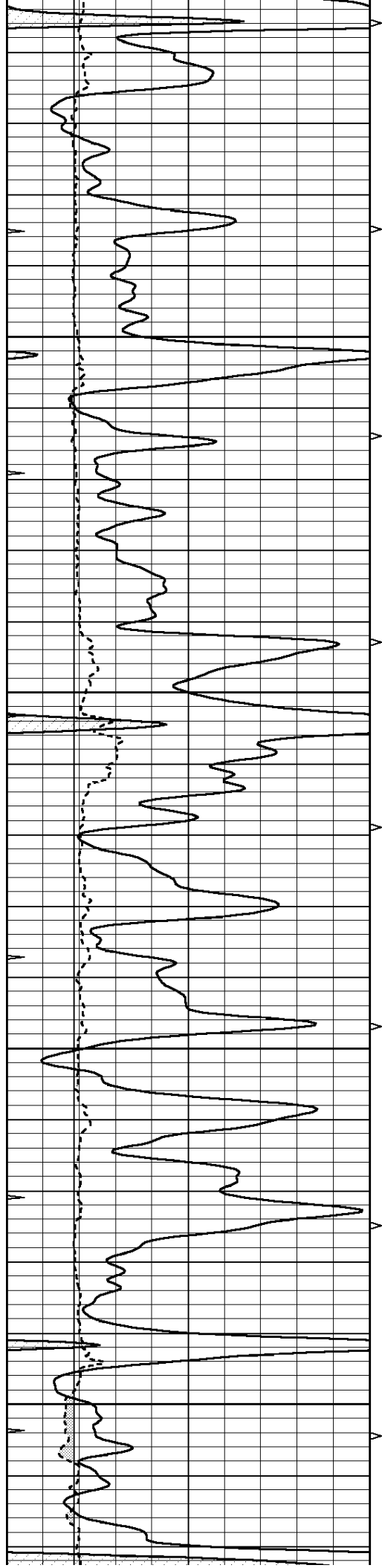
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			

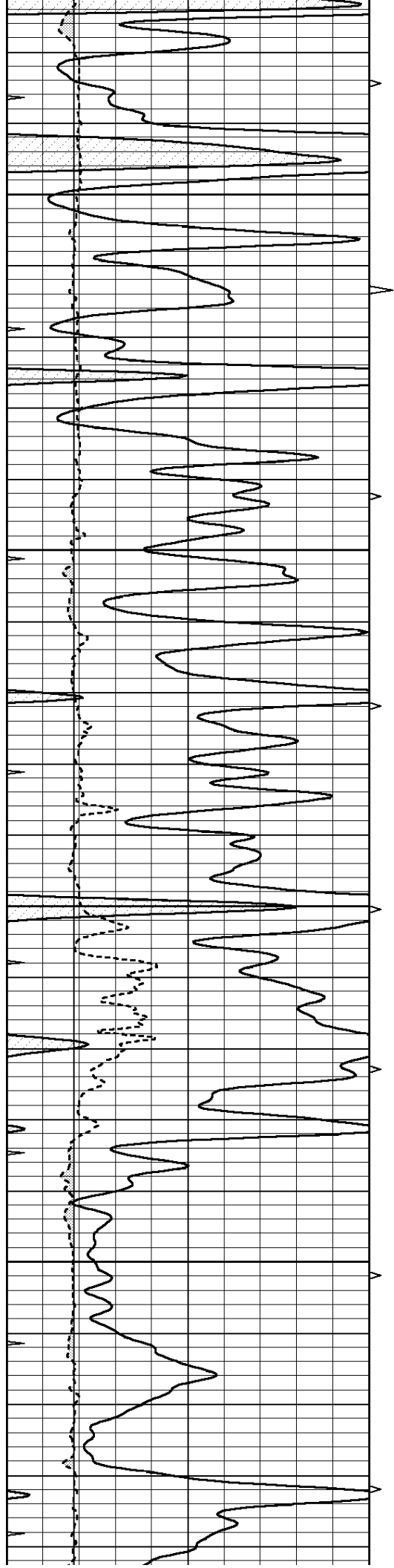










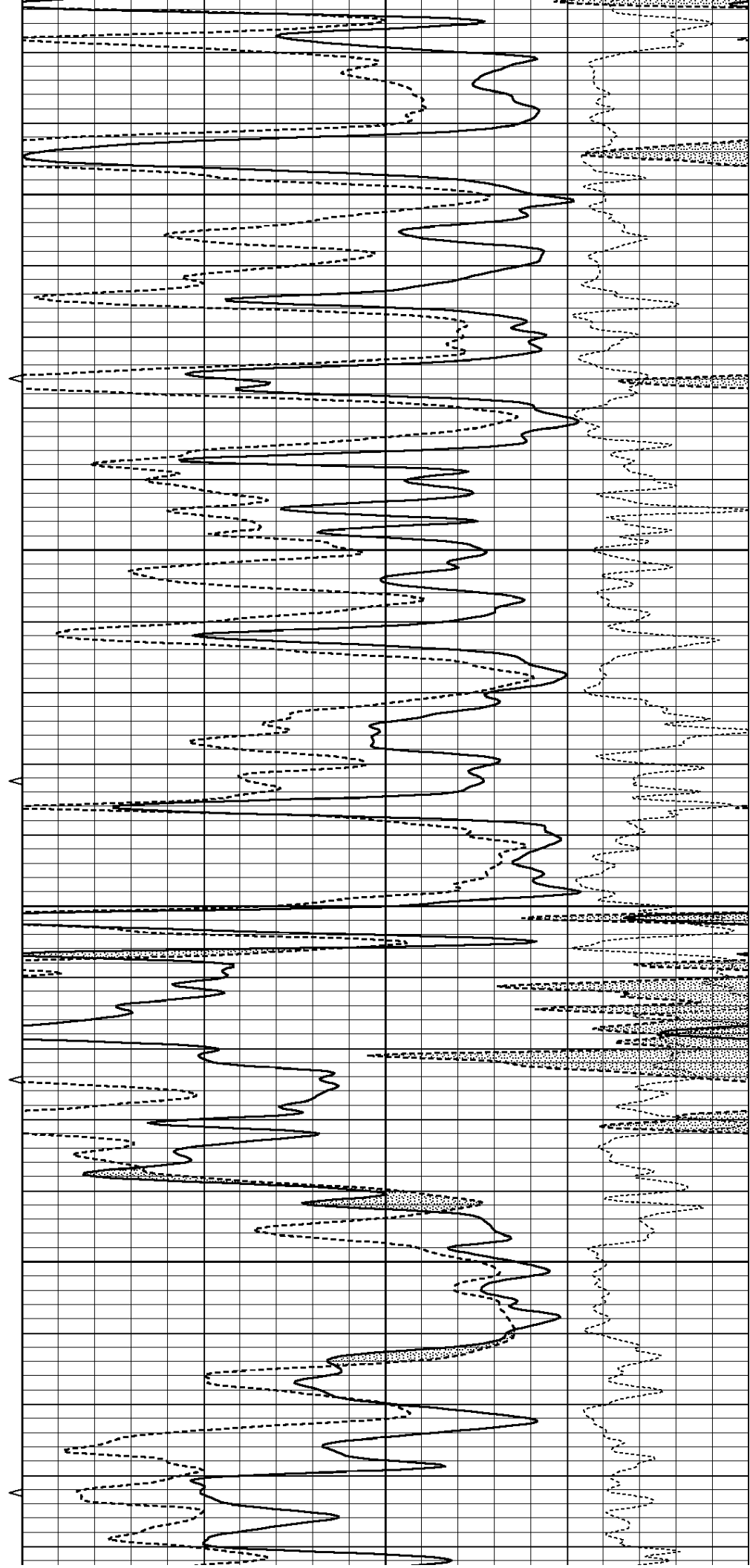


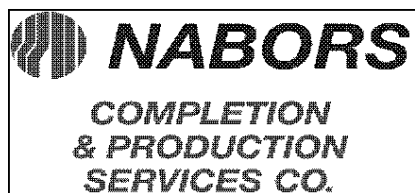
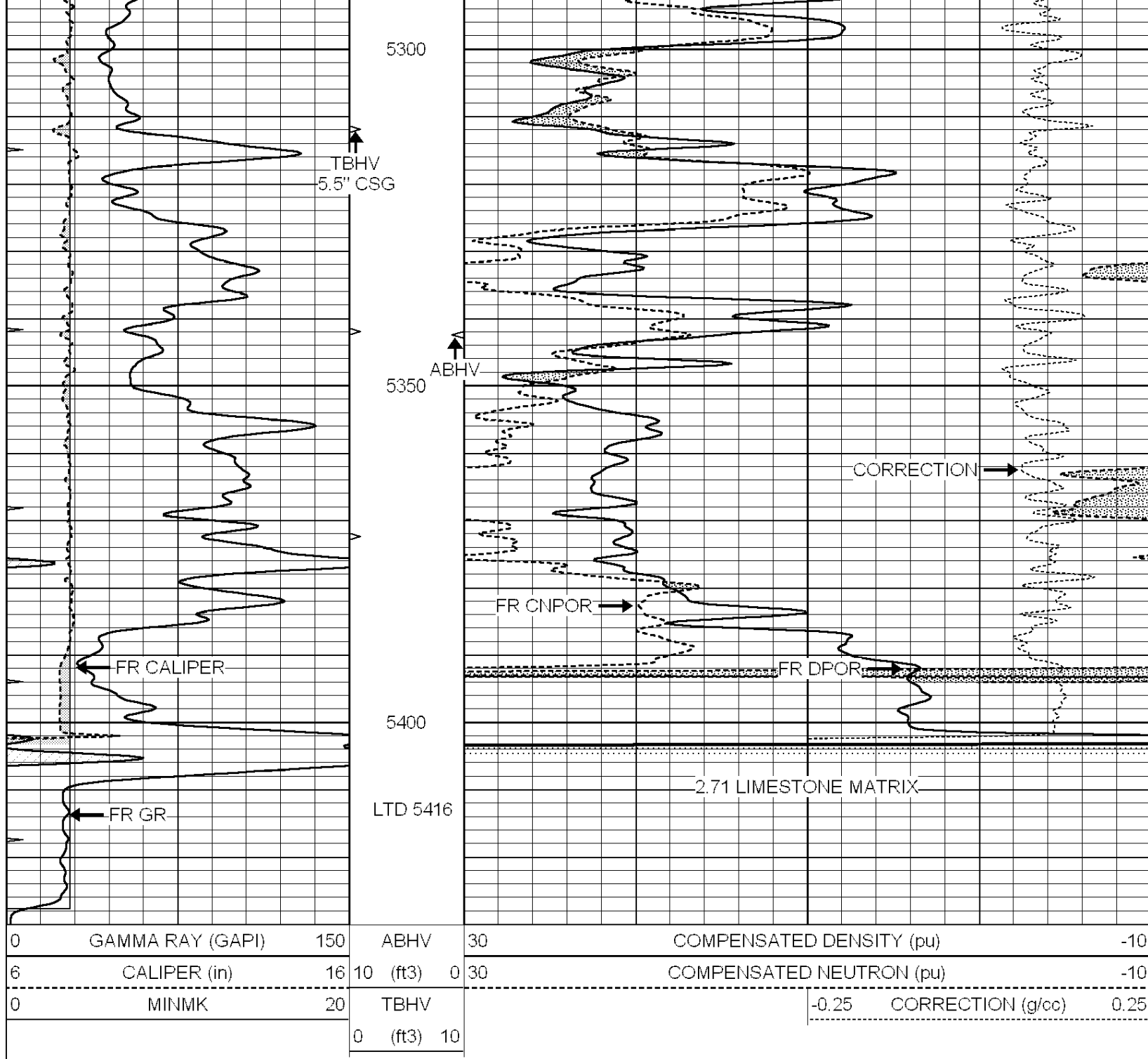
5100

5150

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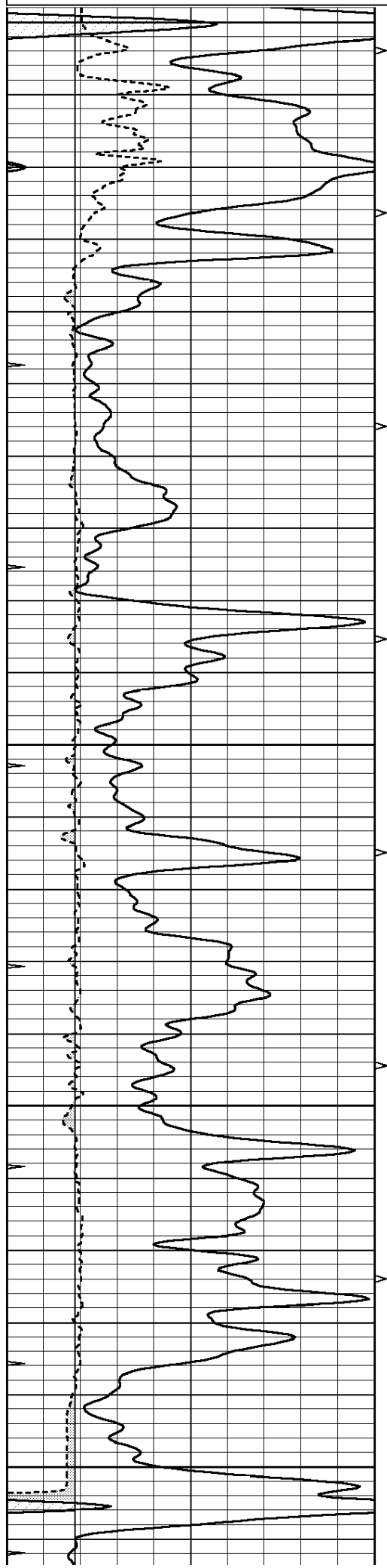


REPEAT SECTION

Database File: 23922ddn.db
 Dataset Pathname: pass5.3
 Presentation Format: _den_neu
 Dataset Creation: Tue Mar 18 08:21:53 2014
 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		

0 (fts) 10



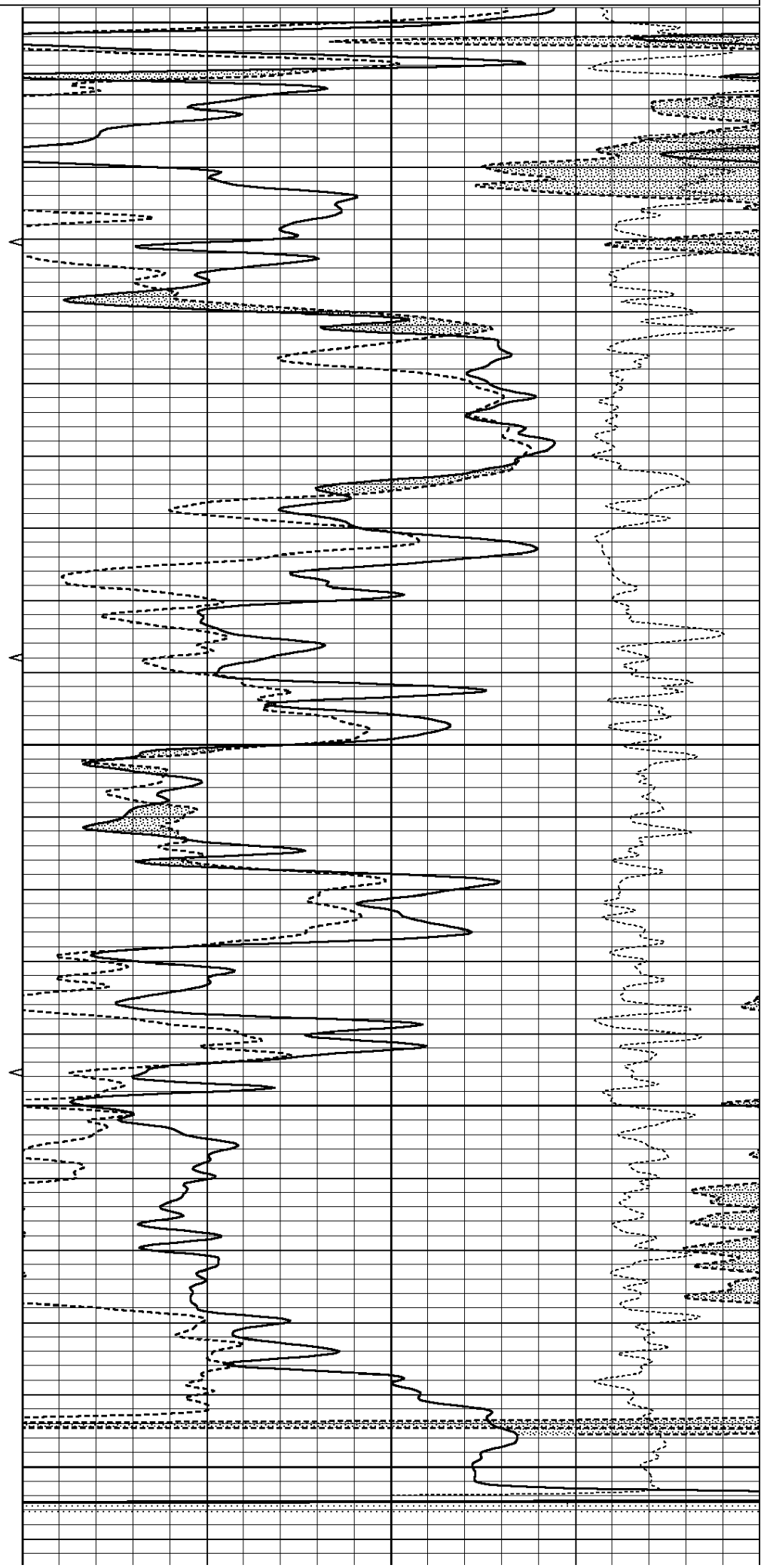
5200

5250

5300

5350

5400



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			

Database File: 23922ddn.db	
Dataset Pathname: pass7.3	
Dataset Creation: Tue Mar 18 08:49:10 2014	

Dual Induction Calibration Report								
Serial-Model: Performed:			DIL3-GEAR Wed Mar 05 17:42:55 2014					
Readings			References			Results		
Loop:	Air	Loop	Air	Loop		m	b	
Deep	0.011	0.656	V	0.000	400.000	mmho/m	500.000	4.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	570.000	3.000
Internal:	Zero	Cal	Zero	Cal		m	b	
Deep	0.002	0.645	V	0.000	400.000	mmho/m	560.000	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	540.000	-4.000

Compensated Density Calibration Report						
Serial-Model:			GEAR1-GEARHART			
Source / Verifier:			147 / 147			
Master Calibration Performed:			Wed Mar 05 16:50:17 2014			
Master Calibration						
	Density		Far Detector		Near Detector	
Magnesium	1.710	g/cc	1211.27	625.92	cps	
Aluminum	2.600	g/cc	267.11	413.26	cps	
Spine Angle = 74.64			Density/Spine Ratio = 0.568			
	Size		Reading			
Small Ring	8.20	in	5.18	V		
Large Ring	14.00	in	8.18	V		

Compensated Neutron Calibration Report	
Serial Number:	080620
Tool Model:	Probe

PRE-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION			
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Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	7	
Tool Model:	Probe1	
Performed:	Tue Mar 04 10:47:15 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4500	GAPI/cps