

COMPENSATED DENSITY / NEUTRON LOG

Company	DEUTSCH OIL COMPANY	Company	DEUTSCH OIL COMPANY
Well	DIETZ #3-8 OWWO	Well	DIETZ #3-8 OWWO
Field	GRIMES	Field	GRIMES
County	PRATT	County	PRATT
State	KANSAS	State	KANSAS
Location:	API # : 15-151-19032-0001 2208' FSL & 378' FWL	Other Services DIL/MEL	
Permanent Datum	GROUND LEVEL	Elevation	1874
Log Measured From	KELLY BUSHING	K.B. 1886 D.F. 1884 G.L. 1874	
Drilling Measured From	KELLY BUSHING		
SEC 8 TWP 27S RGE 12W			
Date	12/16/21		
Run Number	ONE		
Depth Driller	4415		
Depth Logger	4416		
Bottom Logged Interval	4392		
Top Log Interval	3300		
Casing Driller	N/A		
Casing Logger	416		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 73,000 PPM	
Density / Viscosity	9.7/38		
pH / Fluid Loss	7.0/N/A		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.100@78F		
Rmf @ Meas. Temp	.075@78F		
Rmc @ Meas. Temp	.120@78F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.066@120F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	11:15 A.M.		
Maximum Recorded Temperature	120F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KENT DEUTSCH		

<<< 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.

15-151-19032-0001

Comments

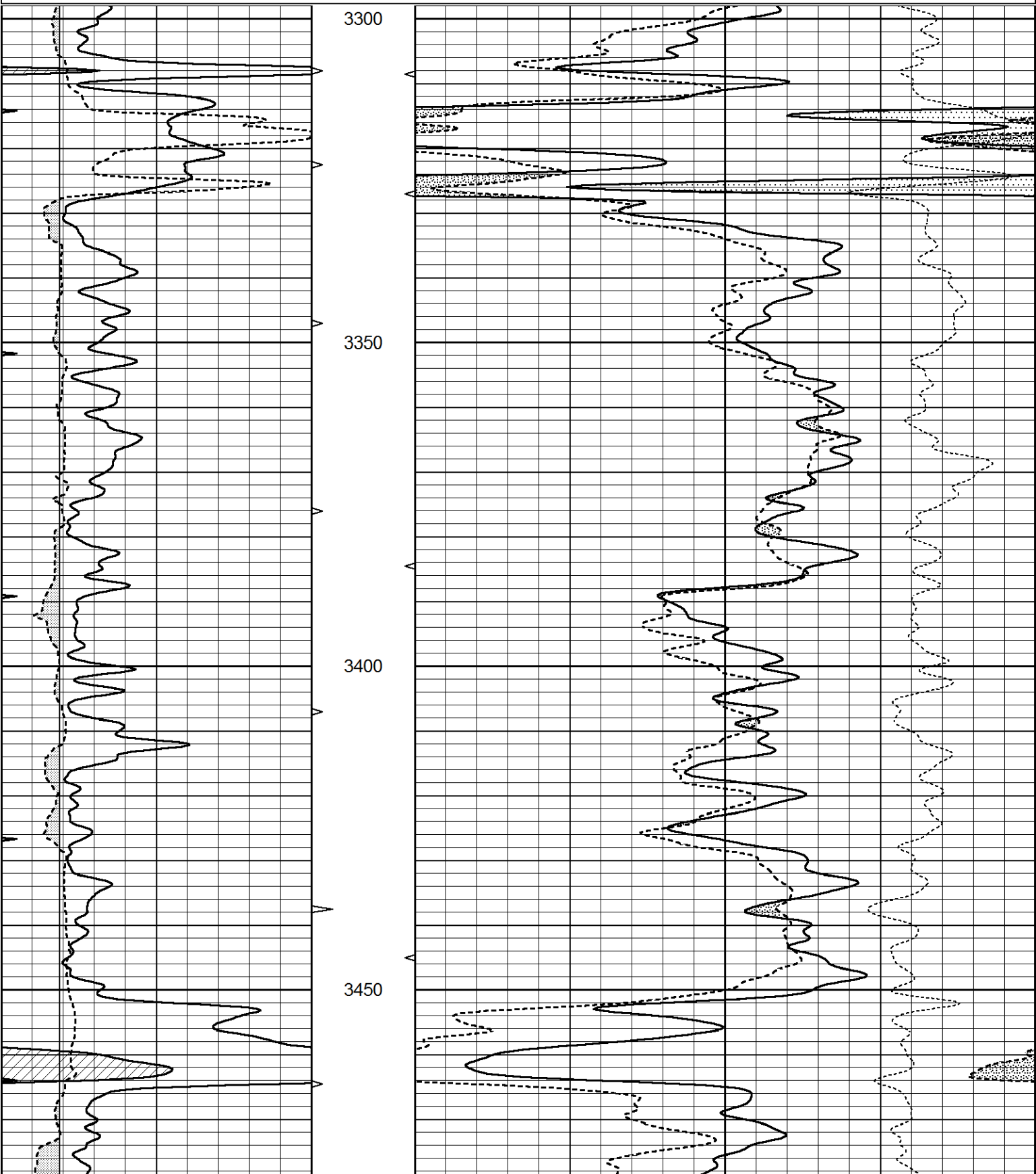
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
NATRONA CHURCH, S. ACROSS HWY 61, E. INTO

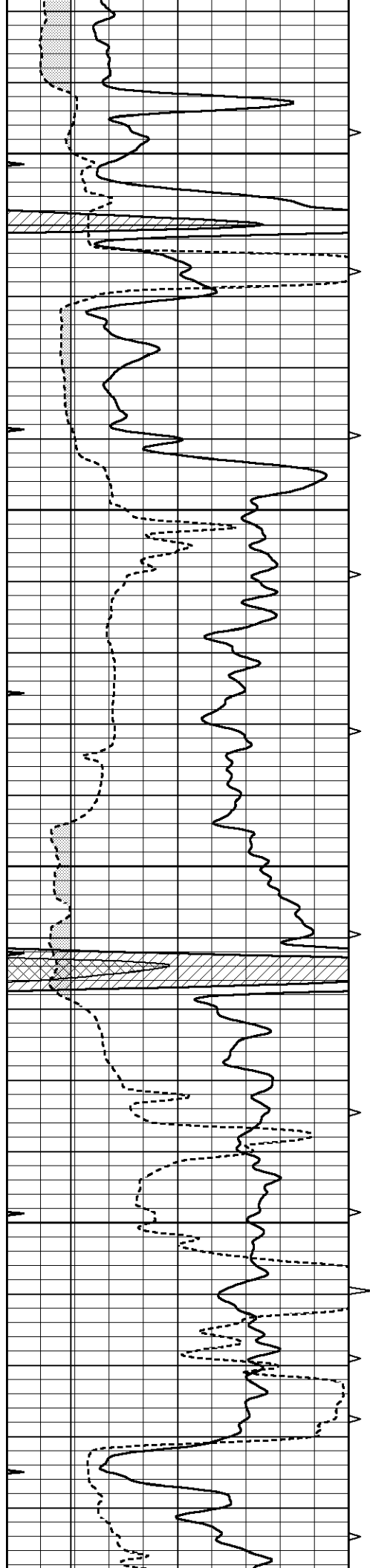


MAIN SECTION

Database File	5847ddn.db
Dataset Pathname	pass4.2M
Presentation Format	den_neu
Dataset Creation	Wed Dec 15 12:29:34 2021
Charted by	Depth in Feet scaled 1:240

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



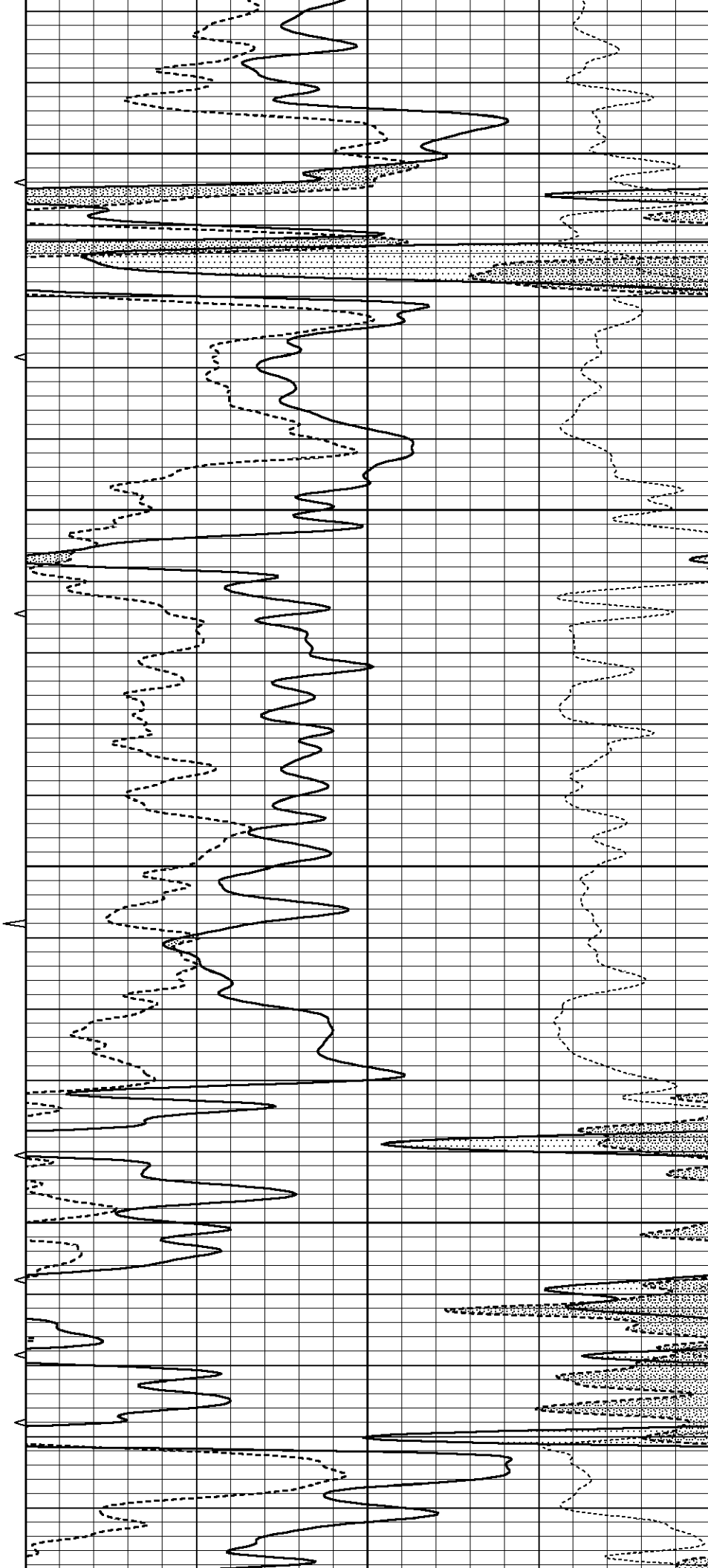


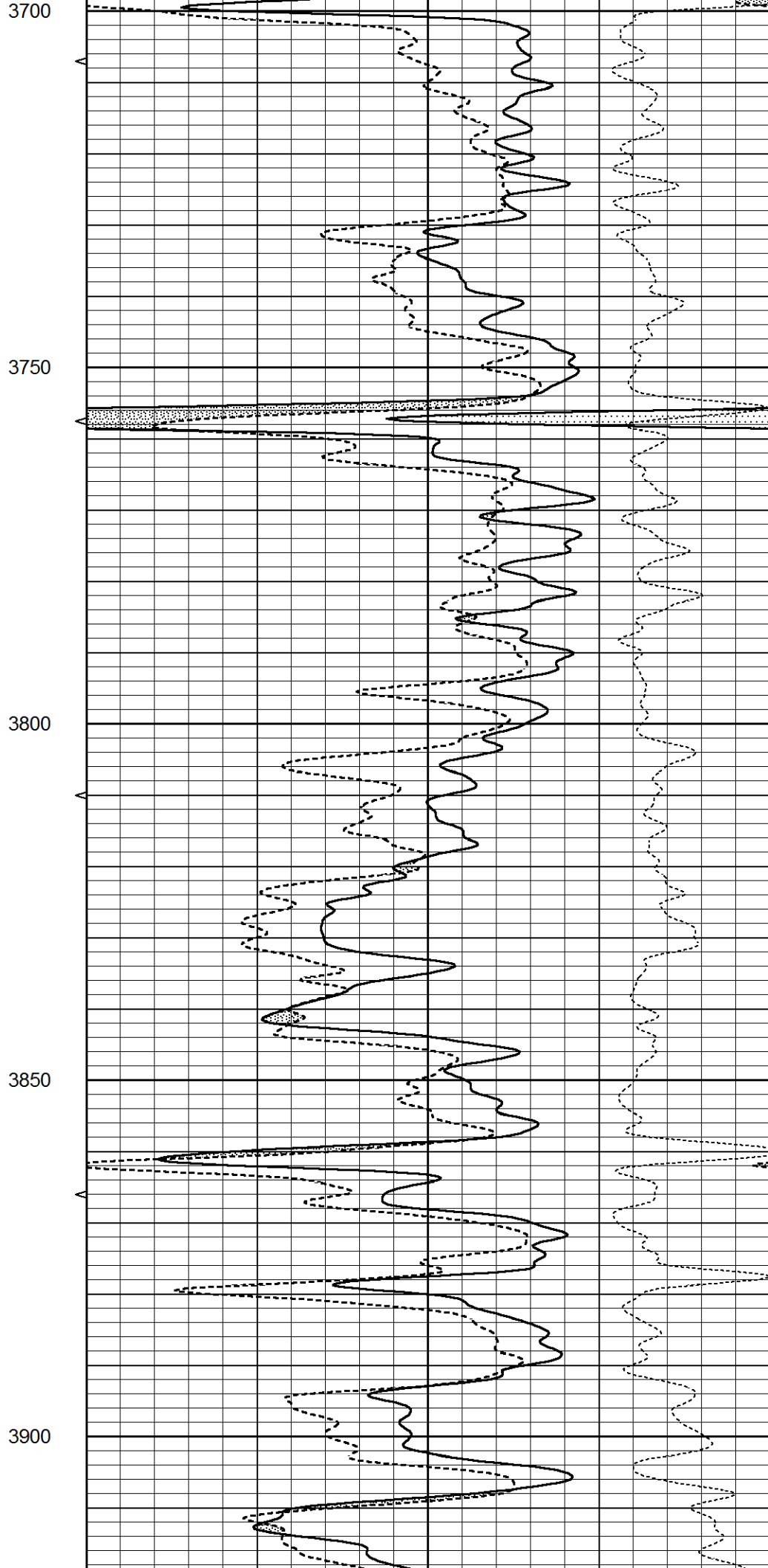
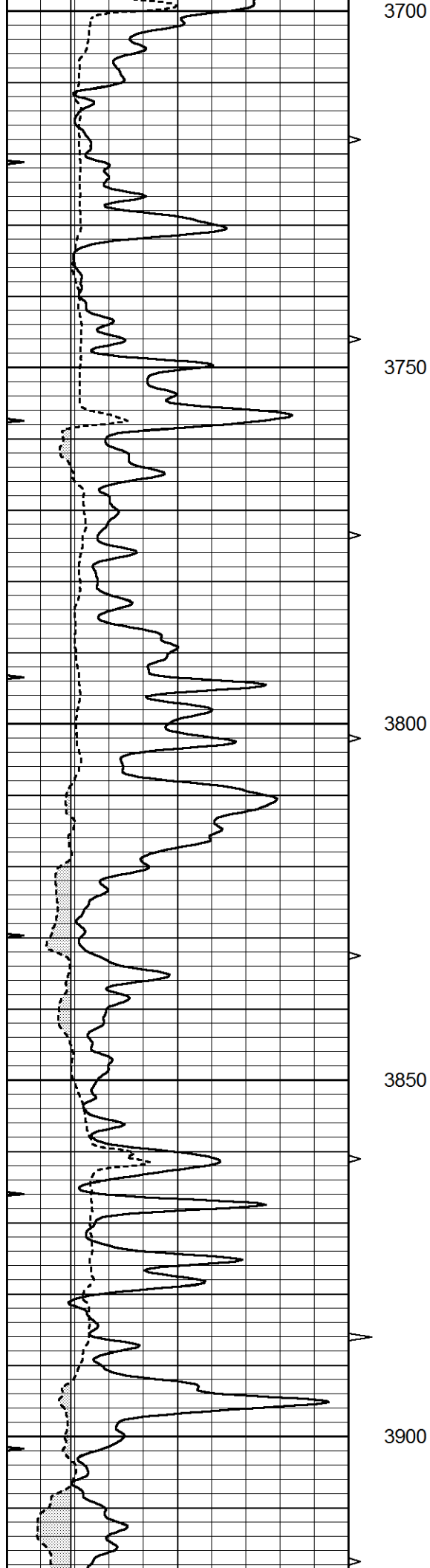
3500

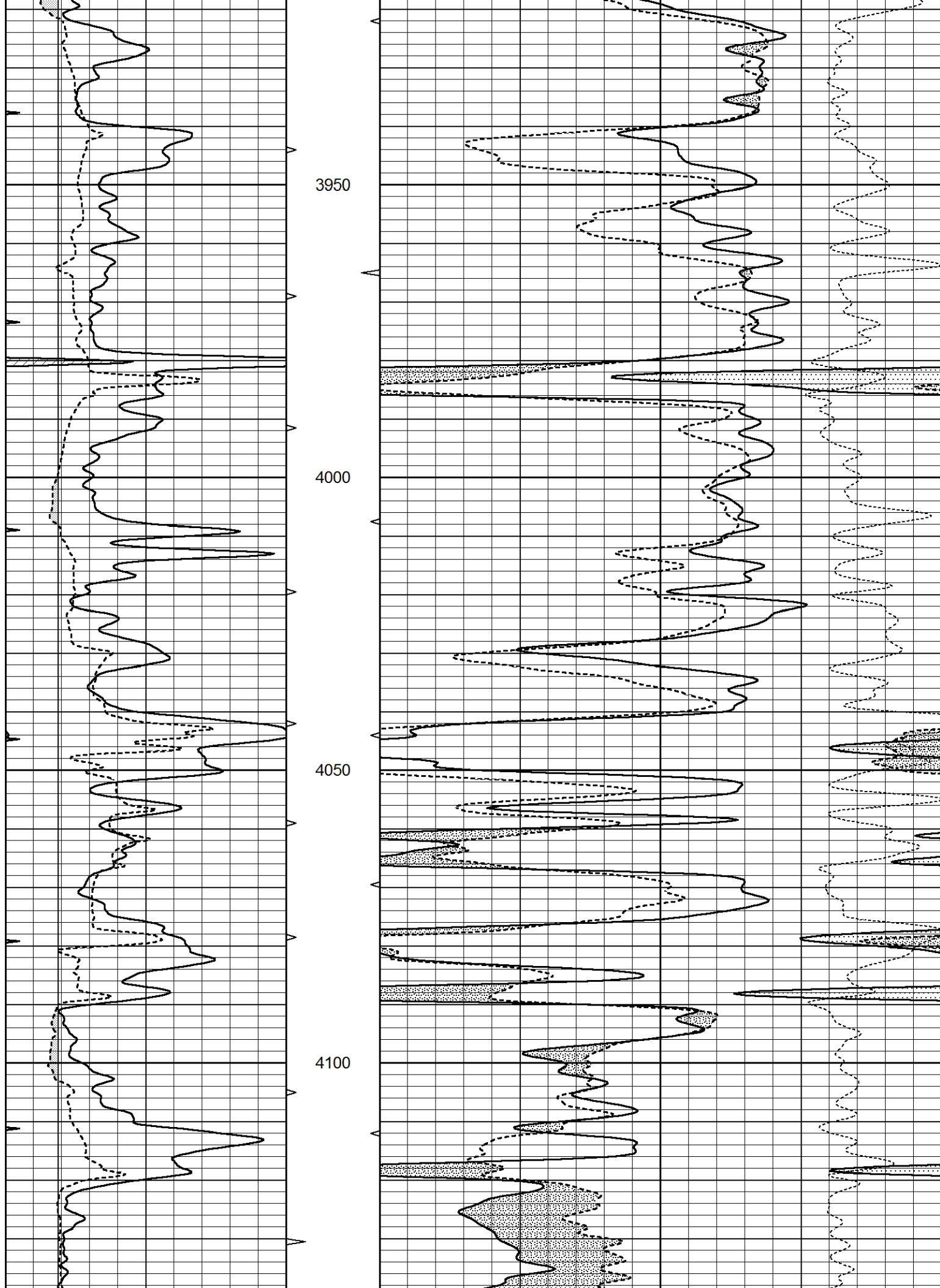
3550

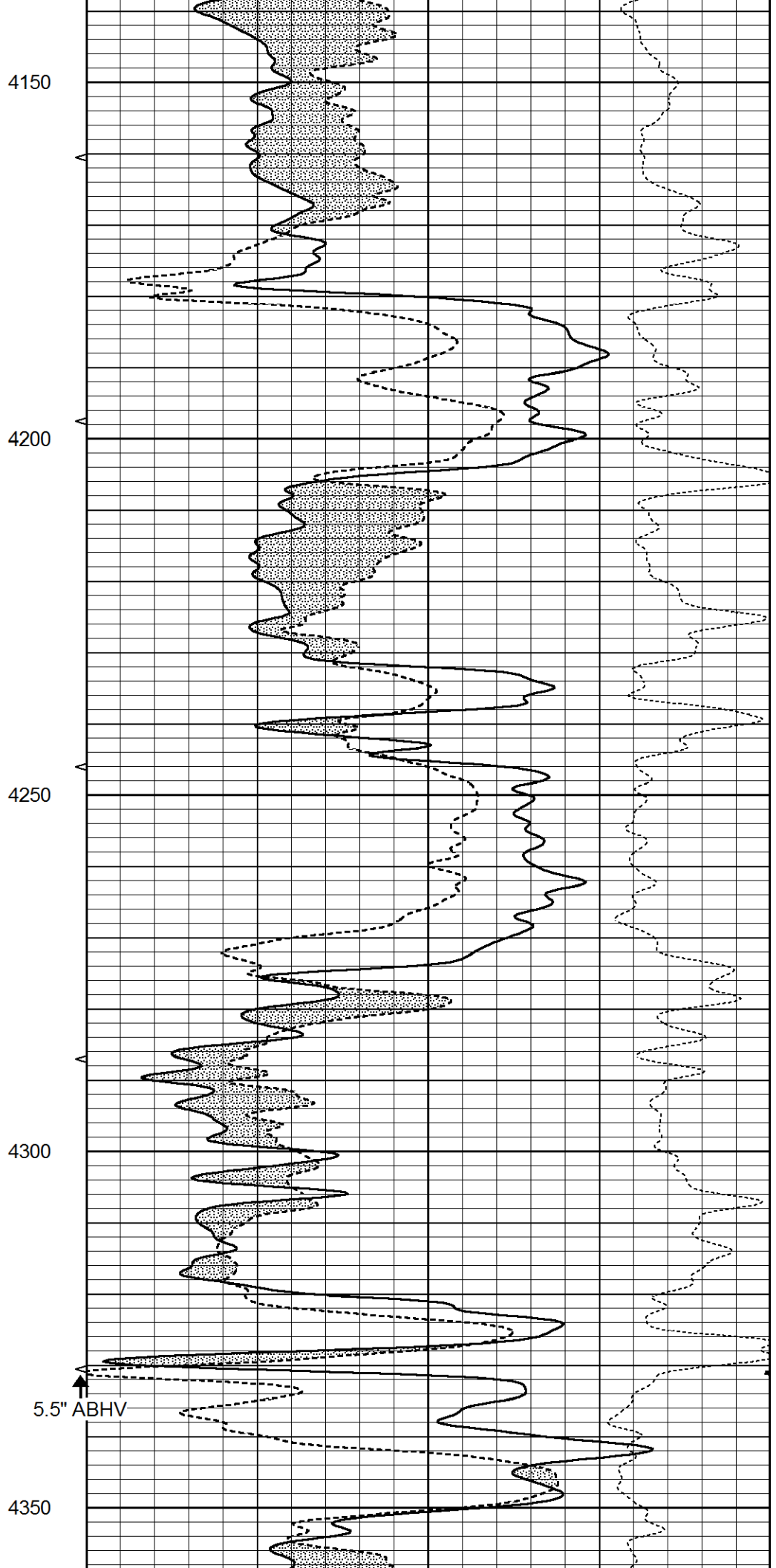
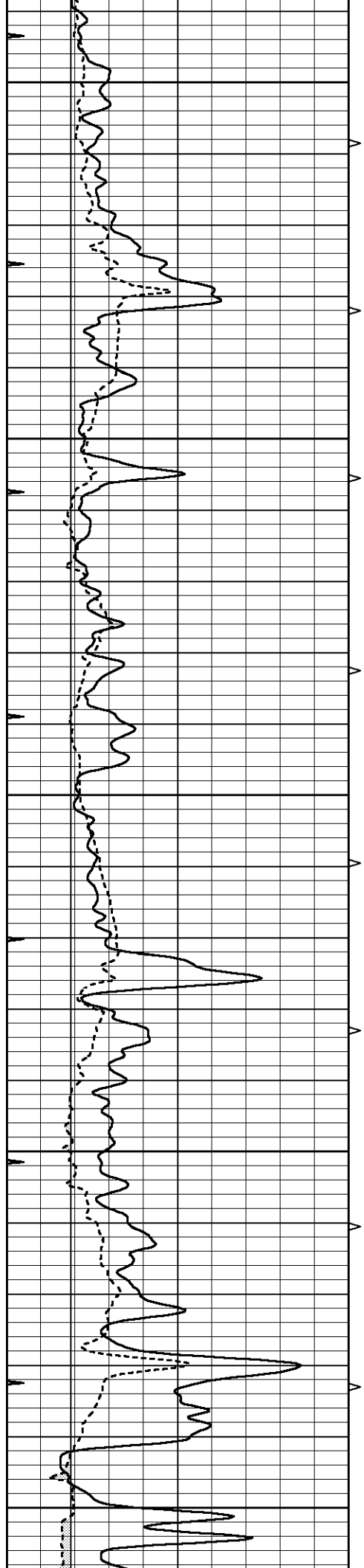
3600

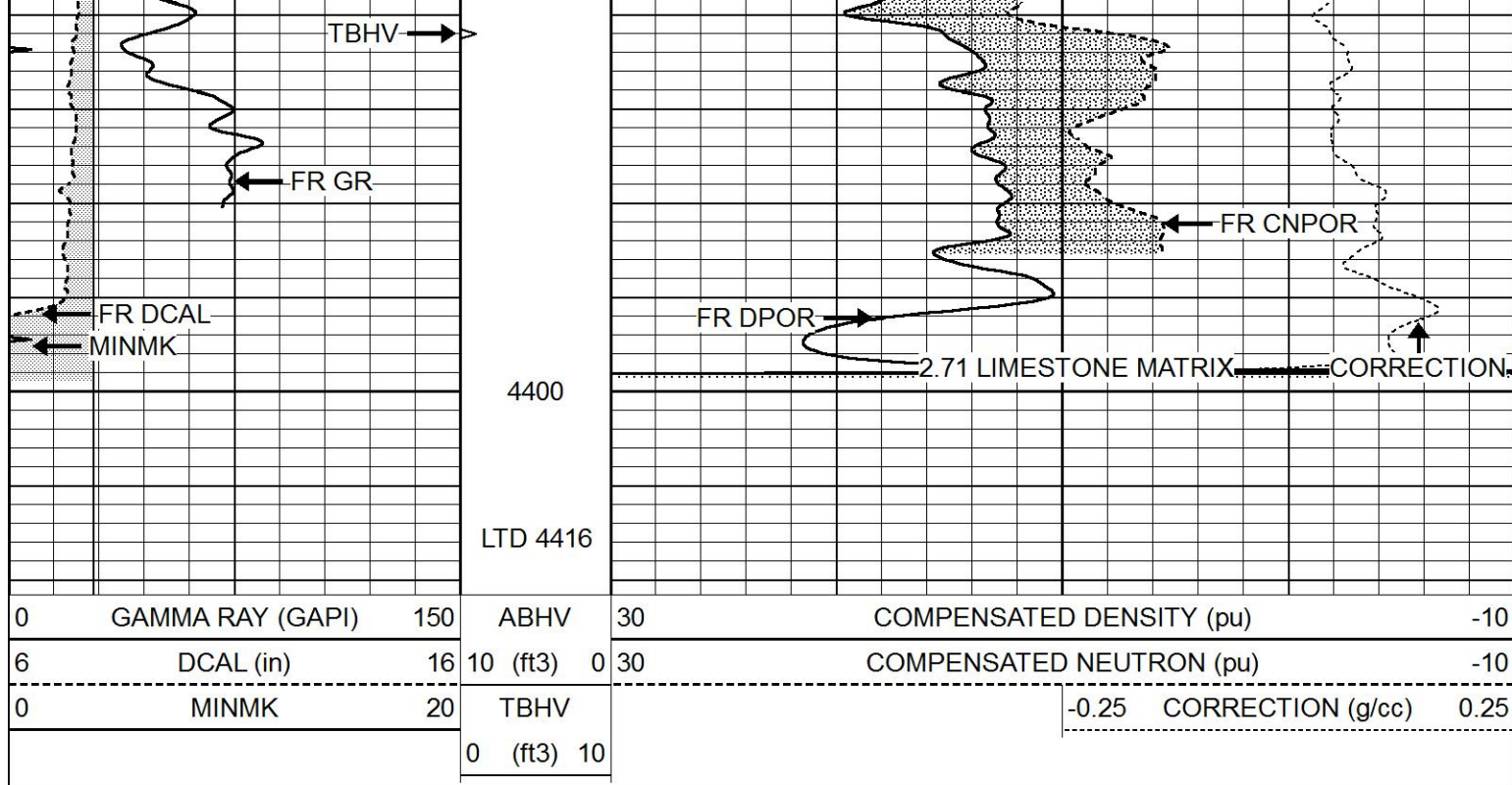
3650





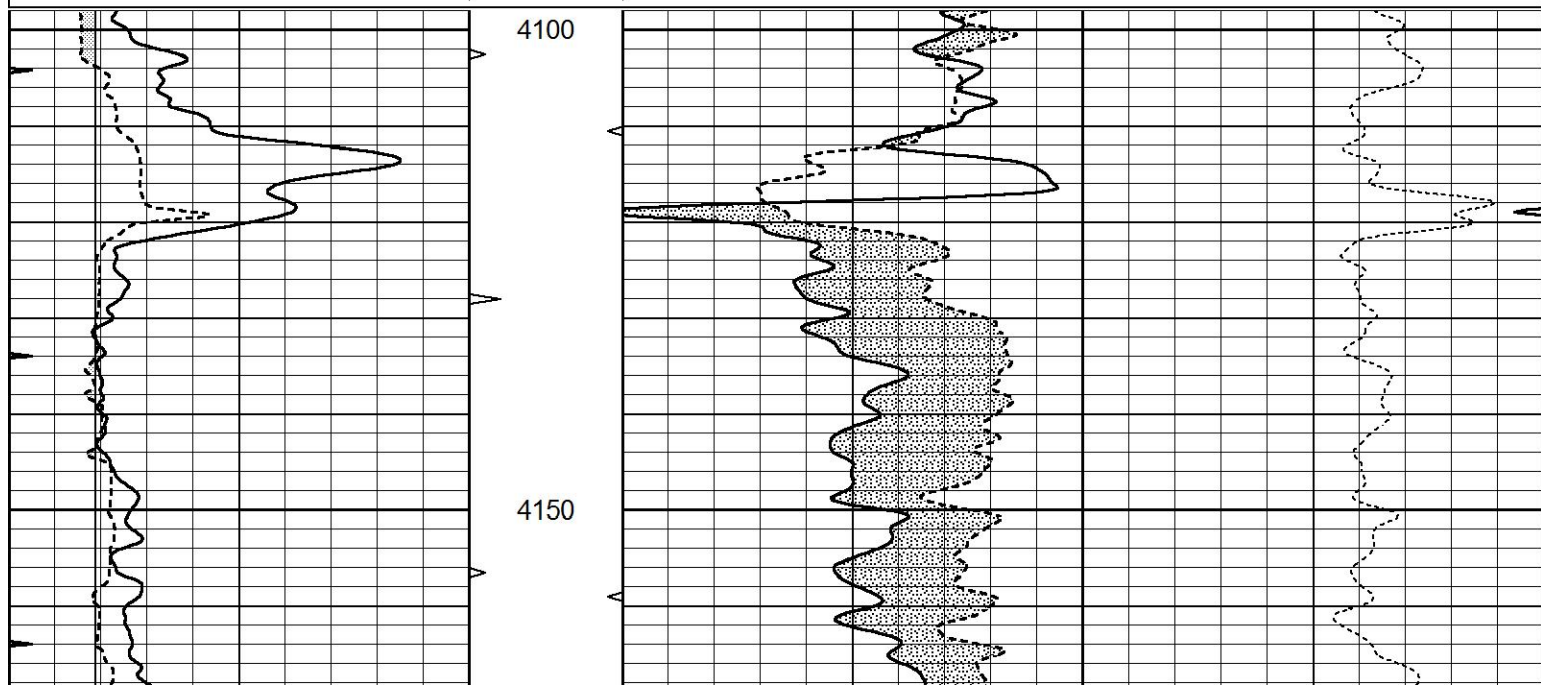
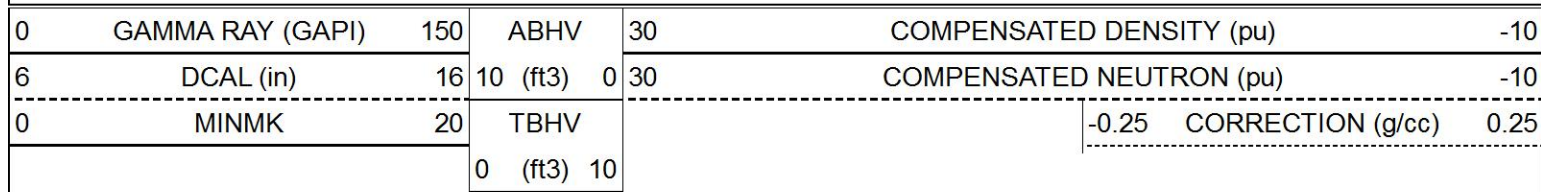


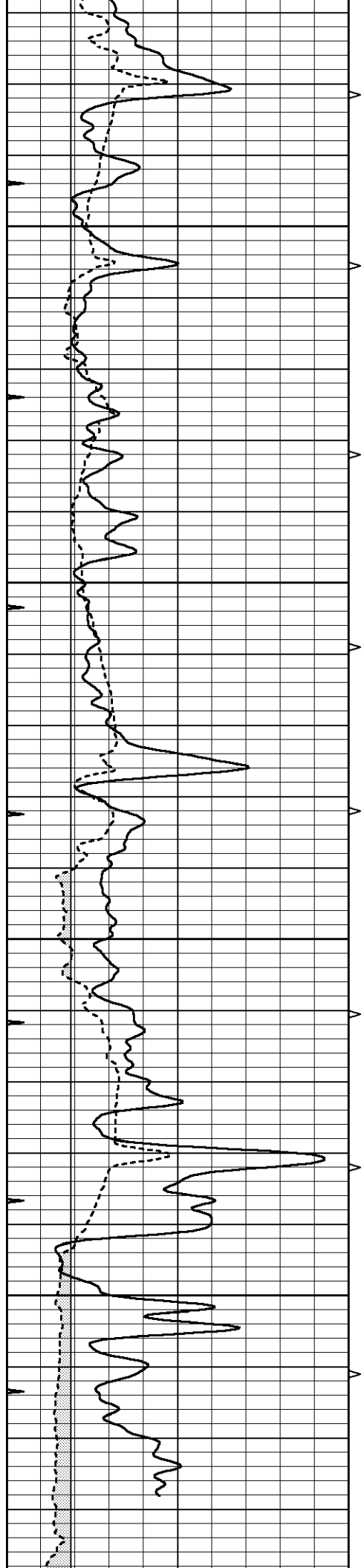




REPEAT SECTION

Database File 5847ddn.db
 Dataset Pathname pass3.1R
 Presentation Format den_neu
 Dataset Creation Wed Dec 15 11:30:52 2021
 Charted by Depth in Feet scaled 1:240



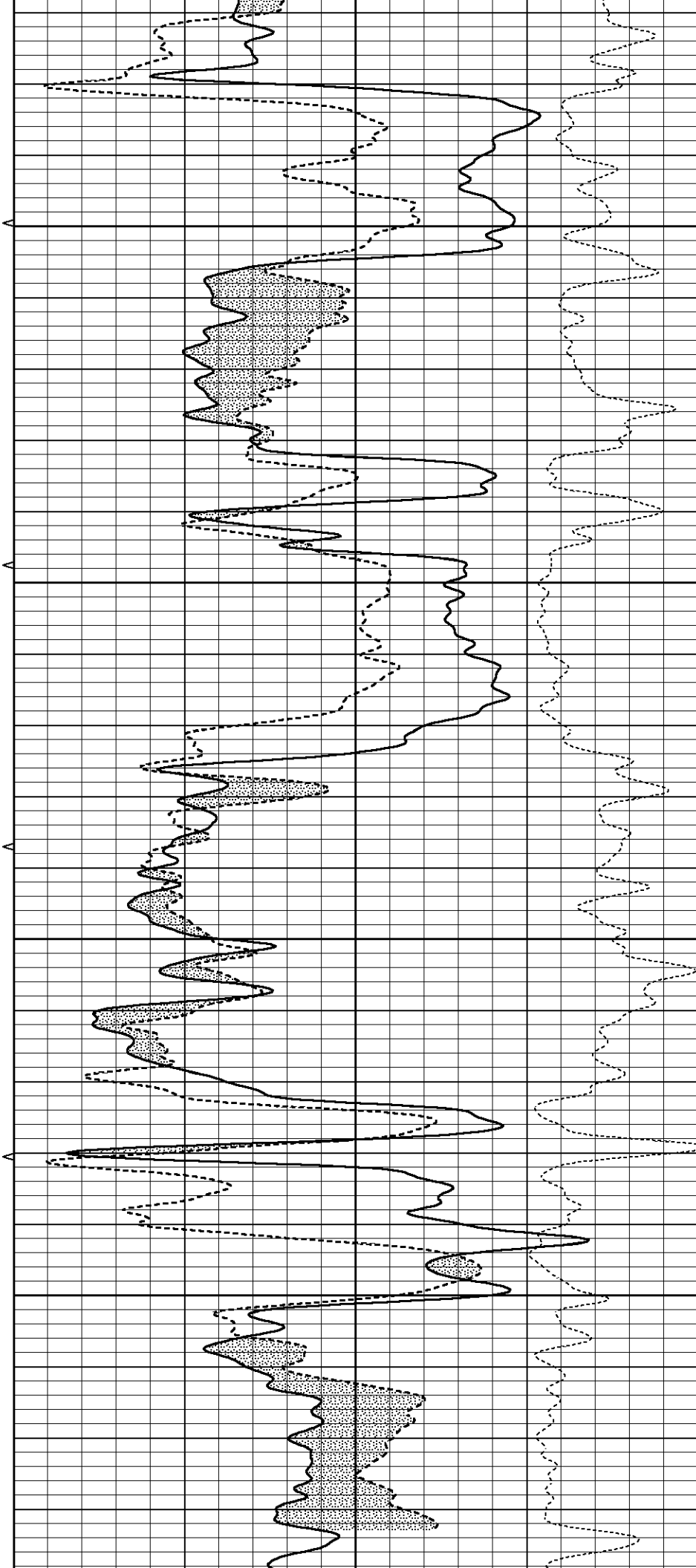


4200

4250

3000

4350



Master Calibration		Performed Tue May 18 11:02:48 2021			
	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	1187.1	10004.0	3142.5	2810.8	cps
Window 2	1084.9	8556.6	2749.3	2502.4	cps
Window 3	923.1	5129.8	1819.8	1719.3	cps
Window 4	263.5	263.6	259.7	262.8	cps
Long Space	0.0	7471.7	1664.4	1417.5	cps
Short Space	1.5	984.9	645.6	561.2	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	
Rib Angle	: 44.3	Rib Slope	: 0.976	Density/Spine Ratio	: 0.564
Spine Angle	: 74.3	Spine Slope	: 3.555	Spine Intercept	: -15.6

Before Survey Verification		Performed Wed Dec 31 18:00:00 1969			
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification		Performed Wed Dec 31 18:00:00 1969			
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

Compensated Neutron Calibration Report				
		Serial Number:	070808PMC	
		Tool Model:	NABORS	
PRE-SURVEY VERIFICATION				
Detector	Readings	Measured	Target	
Short Space	cps			
Long Space	cps	pu	pu	
POST-SURVEY VERIFICATION				
Detector	Readings	Measured	Target	
Short Space	cps			
Long Space	cps	pu	pu	

Gamma Ray Calibration Report					
------------------------------	--	--	--	--	--

Serial Number:	070558
Tool Model:	OPEN_GR
Performed:	Fri Sep 03 05:25:49 2021

Calibrator Value:	1.0	GAPI
-------------------	-----	------

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity:	0.2800	GAPI/cps
--------------	--------	----------