

COMPENSATED DENSITY / NEUTRON LOG

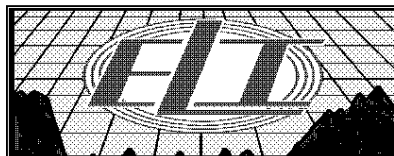
Company	L.D. DRILLING, INC.		
Well	#1-14 MARIAH		
Field	WILDCAT		
County	LANE	State	KANSAS
Company	L.D. DRILLING, INC.	Well	#1-14 MARIAH
Field	WILDCAT	County	LANE
State	KANSAS	Location:	API # : 15-101-22637-0000
Permanent Datum	GROUND LEVEL	Elevation	2776
Log Measured From	KELLY BUSHING	5' A.G.L.	
Drilling Measured From	KELLY BUSHING		
Date	10/26/19	Other Services	DIL/MEL
Run Number	ONE		
Depth Driller	4600		
Depth Logger	4600		
Bottom Logged Interval	4576		
Top Log Interval	3400		
Casing Driller	8 5/8"@285'		
Casing Logger	286		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,700 PPM	
Density / Viscosity	9.6/57		
pH / Fluid Loss	9.5/10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.900@70F		
Rmf @ Meas. Temp	.675@70F		
Rmc @ Meas. Temp	1.08@70F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.521@121F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	6:30 A.M.		
Maximum Recorded Temperature	121F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KIM SHOEMAKER		

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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

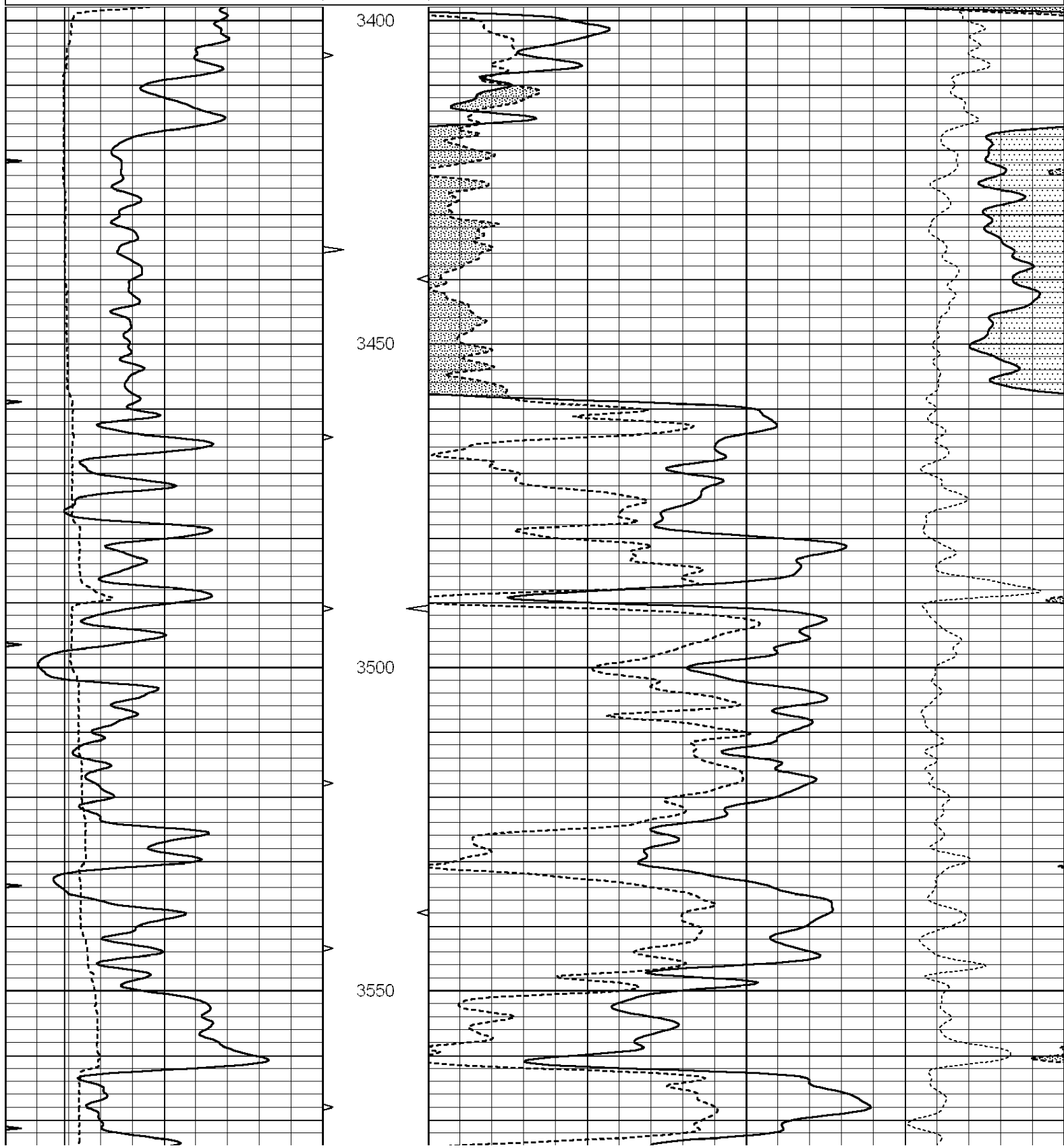
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
HEALY, KS., 4N. ON "DODGE RD." E. INTO

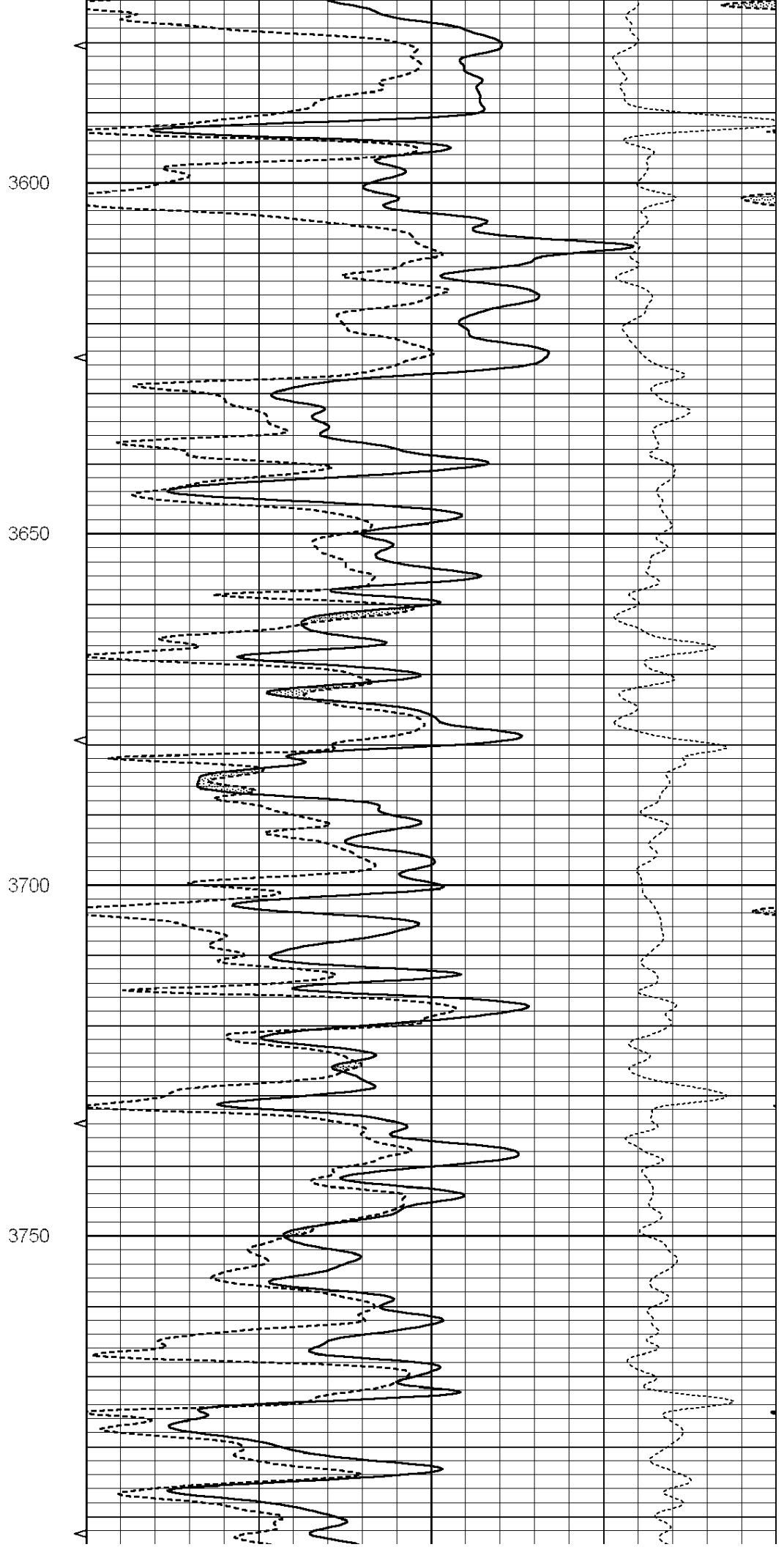
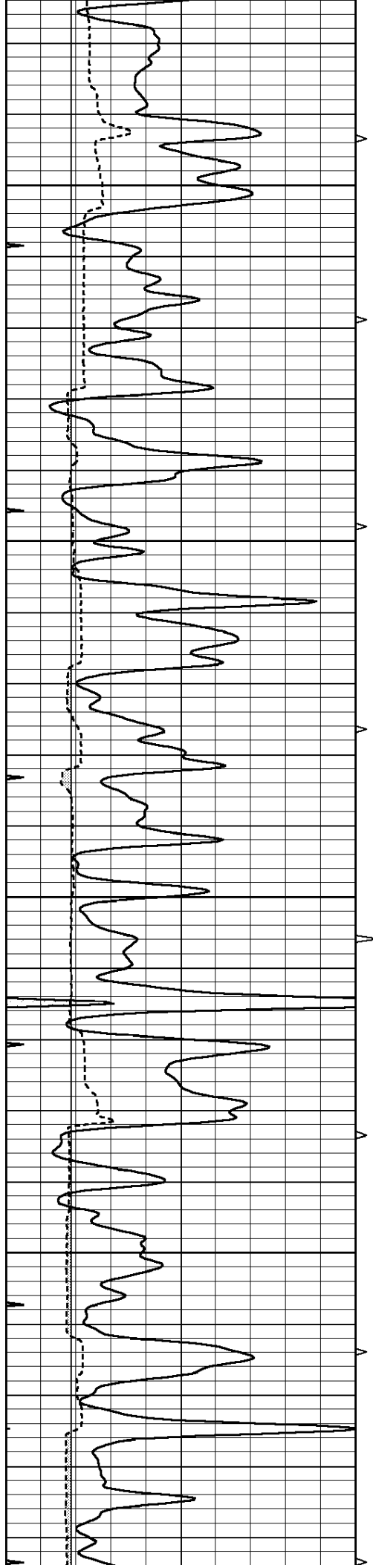


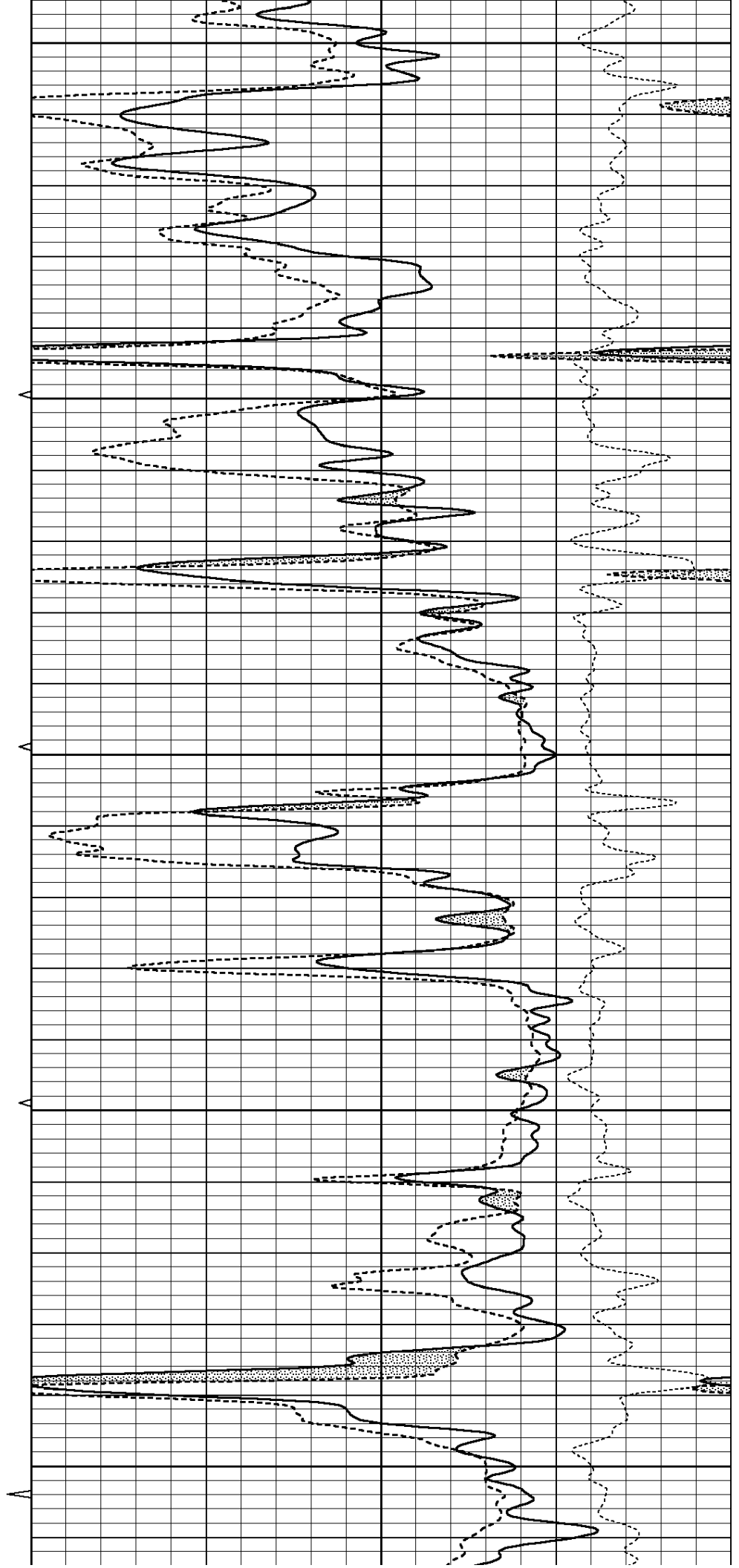
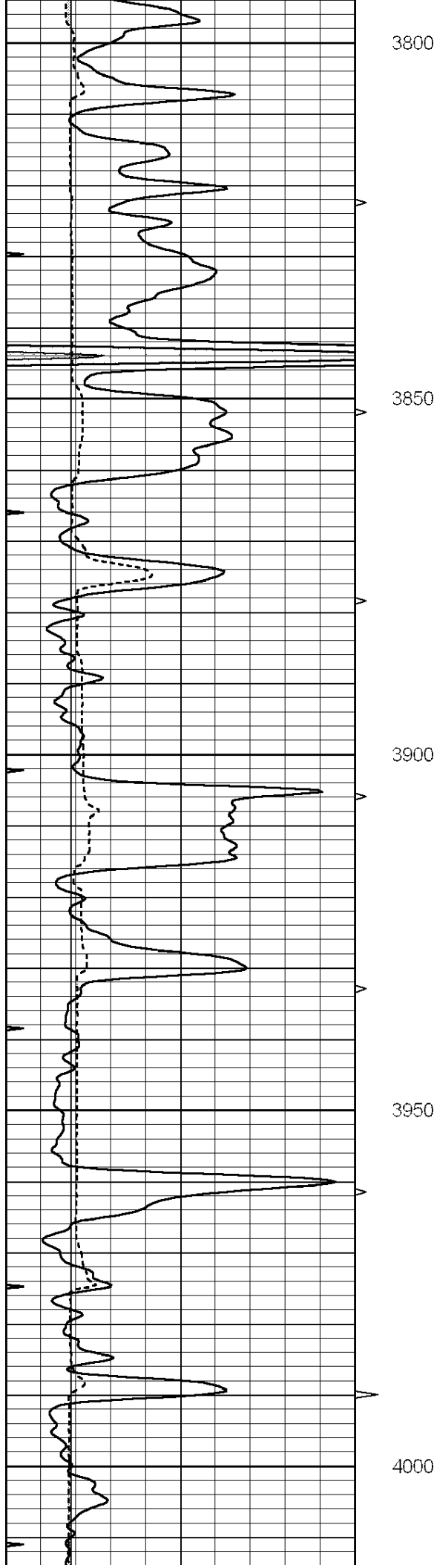
MAIN SECTION

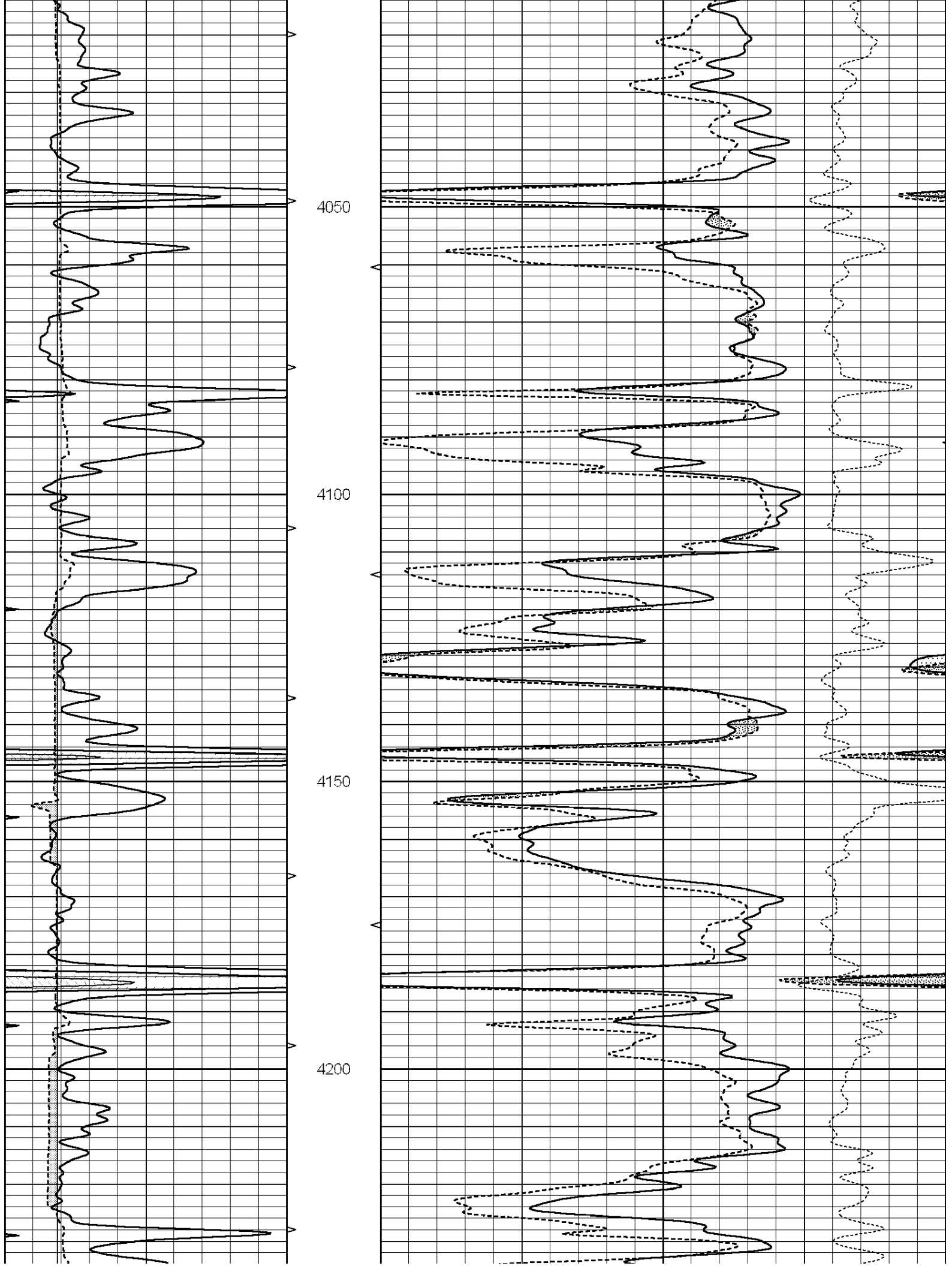
Database File: 3975ddn.db
Dataset Pathname: pass3.8
Presentation Format: den_neu
Dataset Creation: Sat Oct 26 07:48:27 2019
Charted by: Depth in Feet scaled 1:240

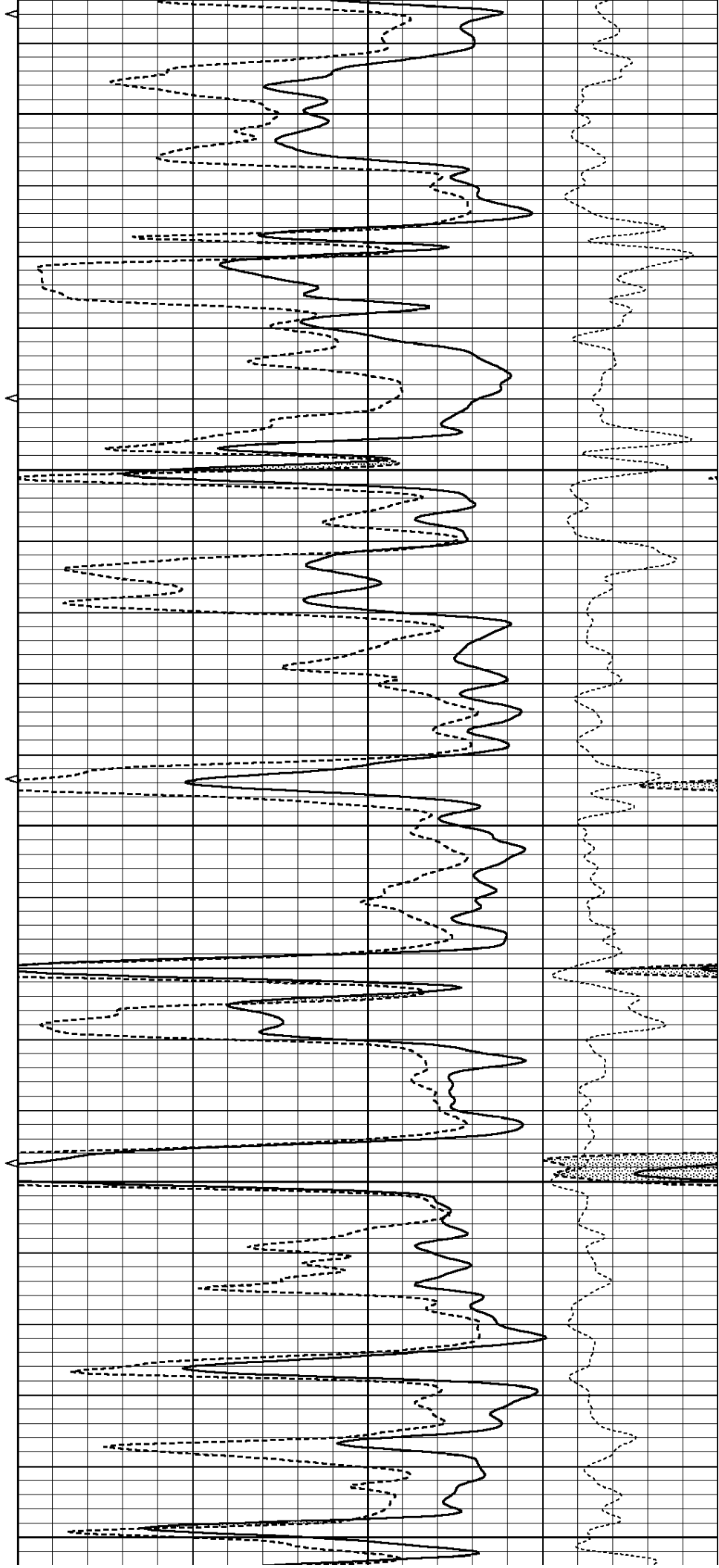
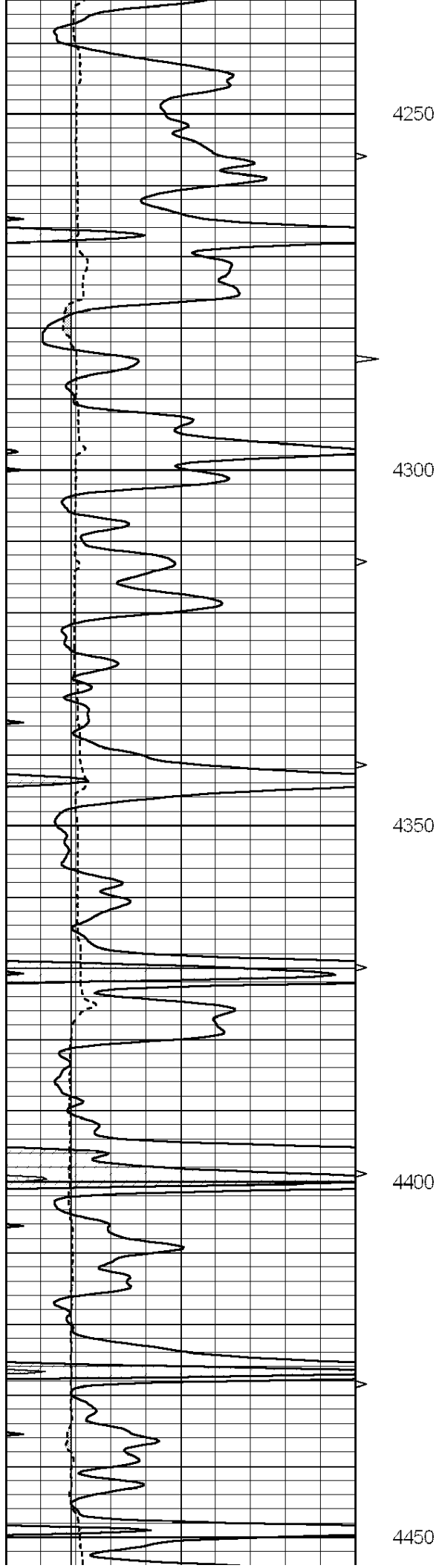
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	DCAL (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		

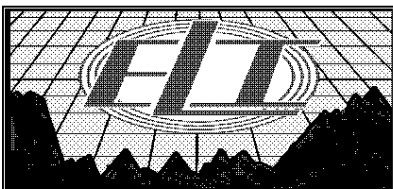
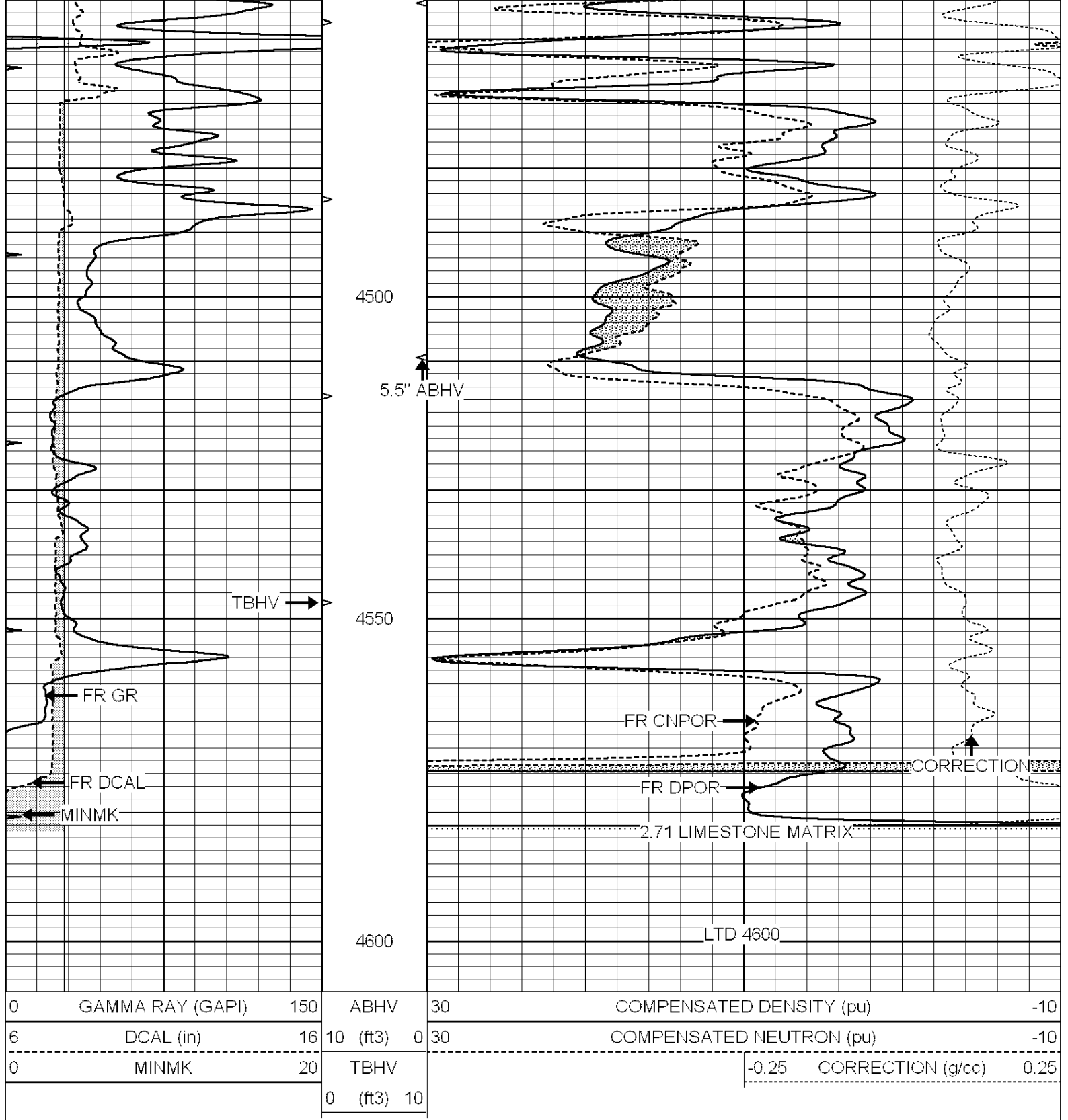






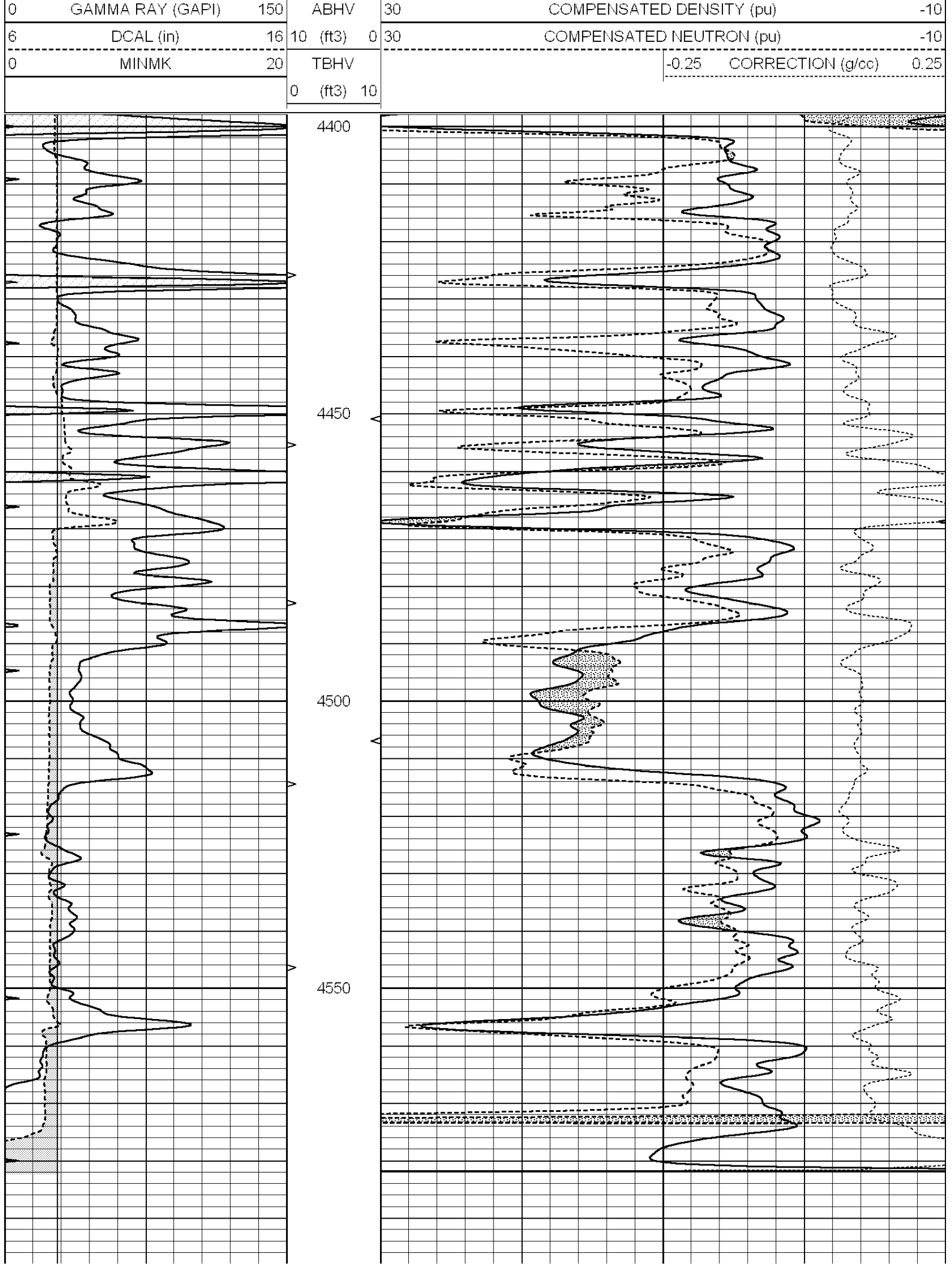






REPEAT SECTION

Database File: 3975ddn.db
Dataset Pathname: pass2.7
Presentation Format: den_neu
Dataset Creation: Sat Oct 26 07:42:59 2019 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240



Long Space	1.1	1927.9	1285.9	2050.2	cps
Short Space		1.7100	2.5960	1.3800	cps
Rho		0.0000	0.0000	0.0000	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio	: 0.558
Spine Angle	: 75.2	Spine Slope	: 3.790	Spine Intercept	: -19.6

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:	070808
Tool Model:	Probe

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:	Wed May 31 00:09:32 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Count Rate:	0.0000	GAPI

Sensitivity: 0.2800 GAH/cps