



COMPENSATED DENSITY / NEUTRON LOG

Company	DOWNING - NELSON OIL CO. INC.		
Well	MARY PEARSON #2-25		
Field	PEARSON		
County	TREGO		
State	KANSAS		
Company	DOWNING - NELSON OIL COMPANY, INC.		
Well	MARY PEARSON #2-25		
Field	PEARSON		
County	TREGO		
State	KANSAS		
Location:	APL # : 15-195-23047-0000 1374' FNL & 335' FVL NE - NW - SW - NW		Other Services DIL/MEL
Permanent Datum	GROUND LEVEL		Elevation 2258
Log Measured From	KELLY BUSHING 5' A.G.L.		
Drilling Measured From	KELLY BUSHING		Elevation K.B. 2263 D.F. 2261 G.L. 2258
Date	7/7/18		
Run Number	ONE		
Depth Driller	4135		
Depth Logger	4134		
Bottom Logged Interval	4110		
Top Log Interval	3200		
Casing Driller	8 5/8"@221'		
Casing Logger	221		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		CHLORIDES 3,000 PPM
Density / Viscosity	9.2/53		
pH / Fluid Loss	10.5/8.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.600@90F		
Rmf @ Meas. Temp	.450@90F		
Rmc @ Meas. Temp	.720@90F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.462@117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	6:30 A.M.		
Maximum Recorded Temperature	117F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	MARC DOWNING		

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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

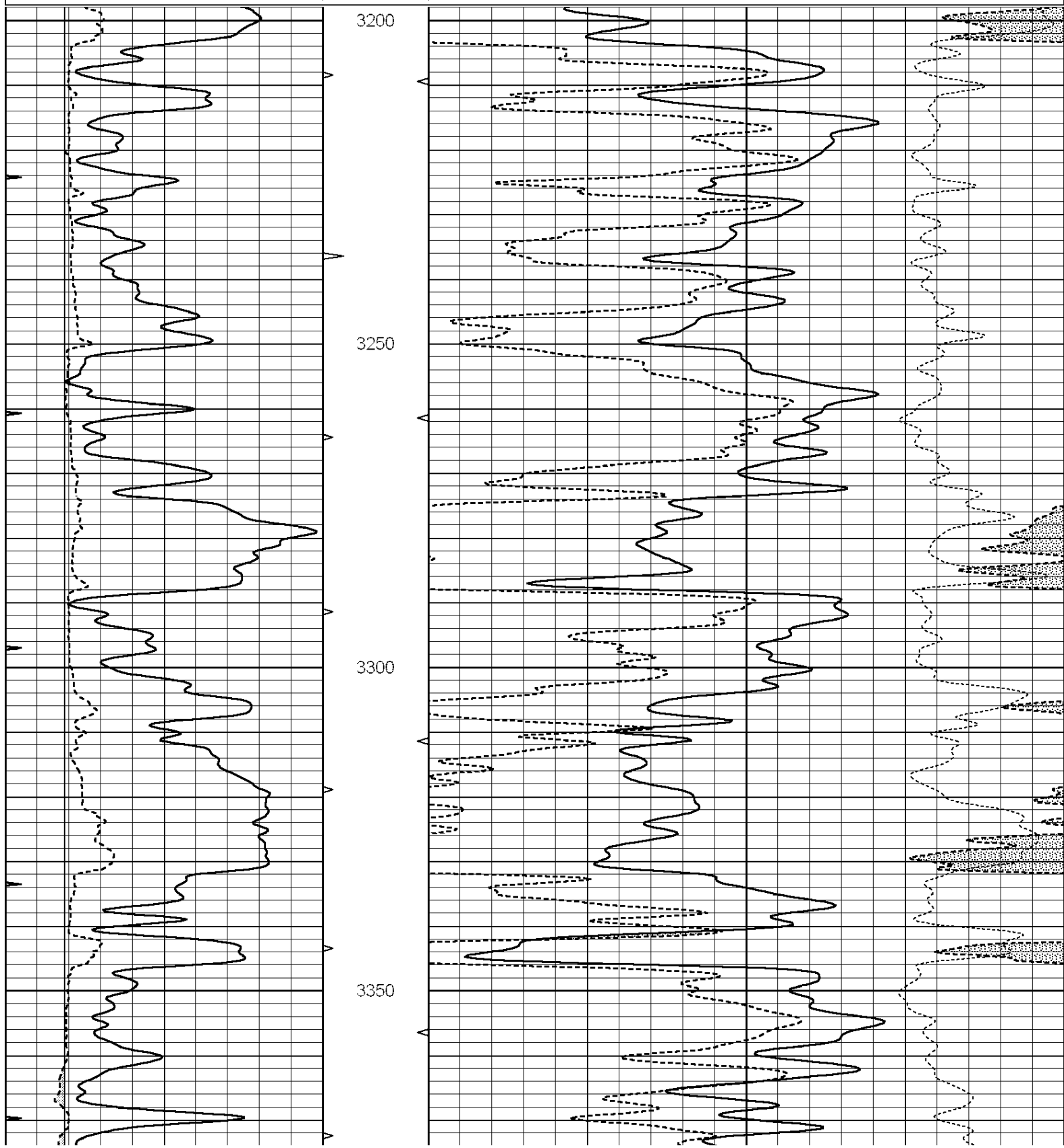
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
OGALLAH, KS. & I-70, 6S. TO "RD. Q", 1E., S. INTO AT FARM DRIVE

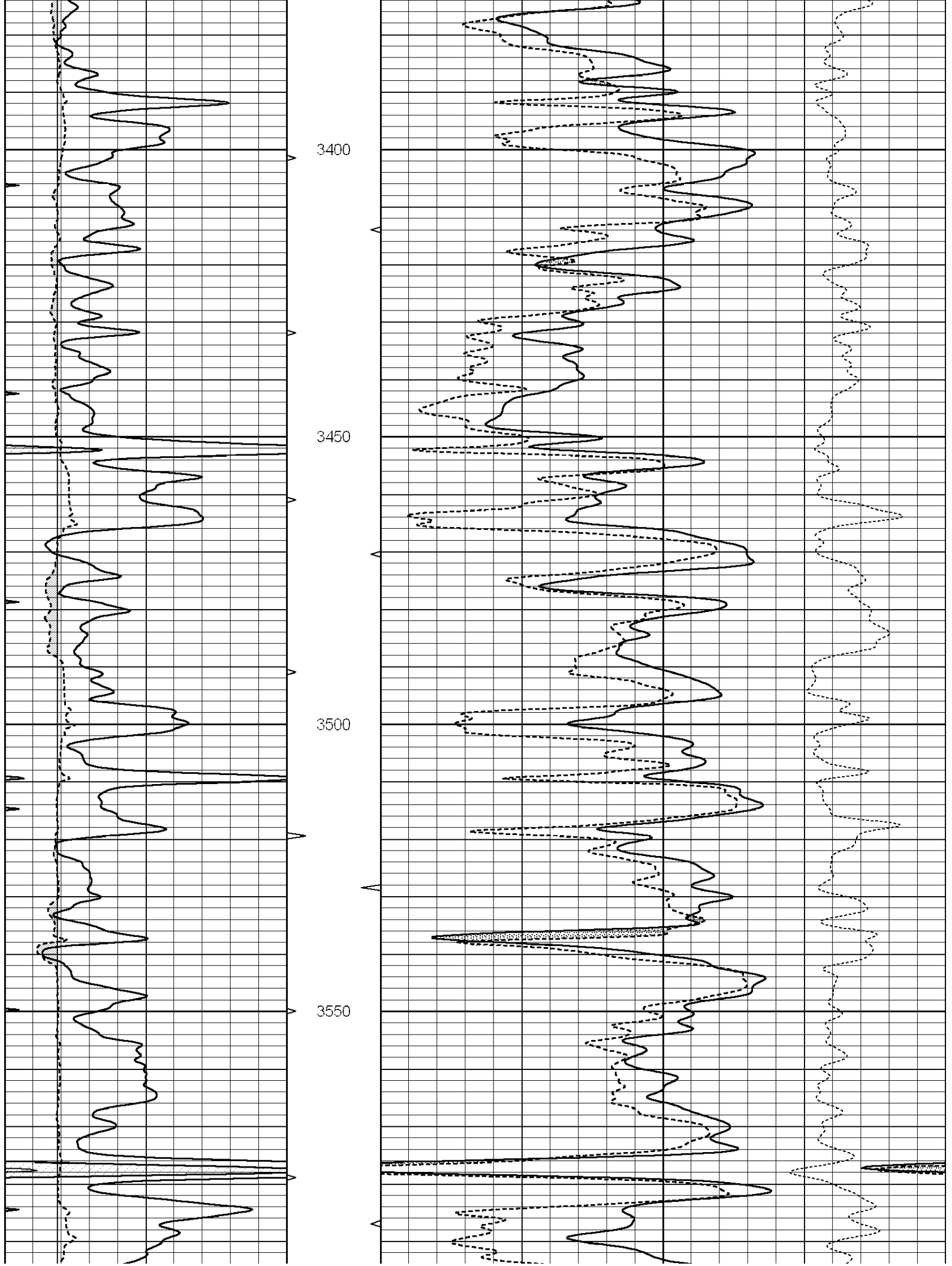


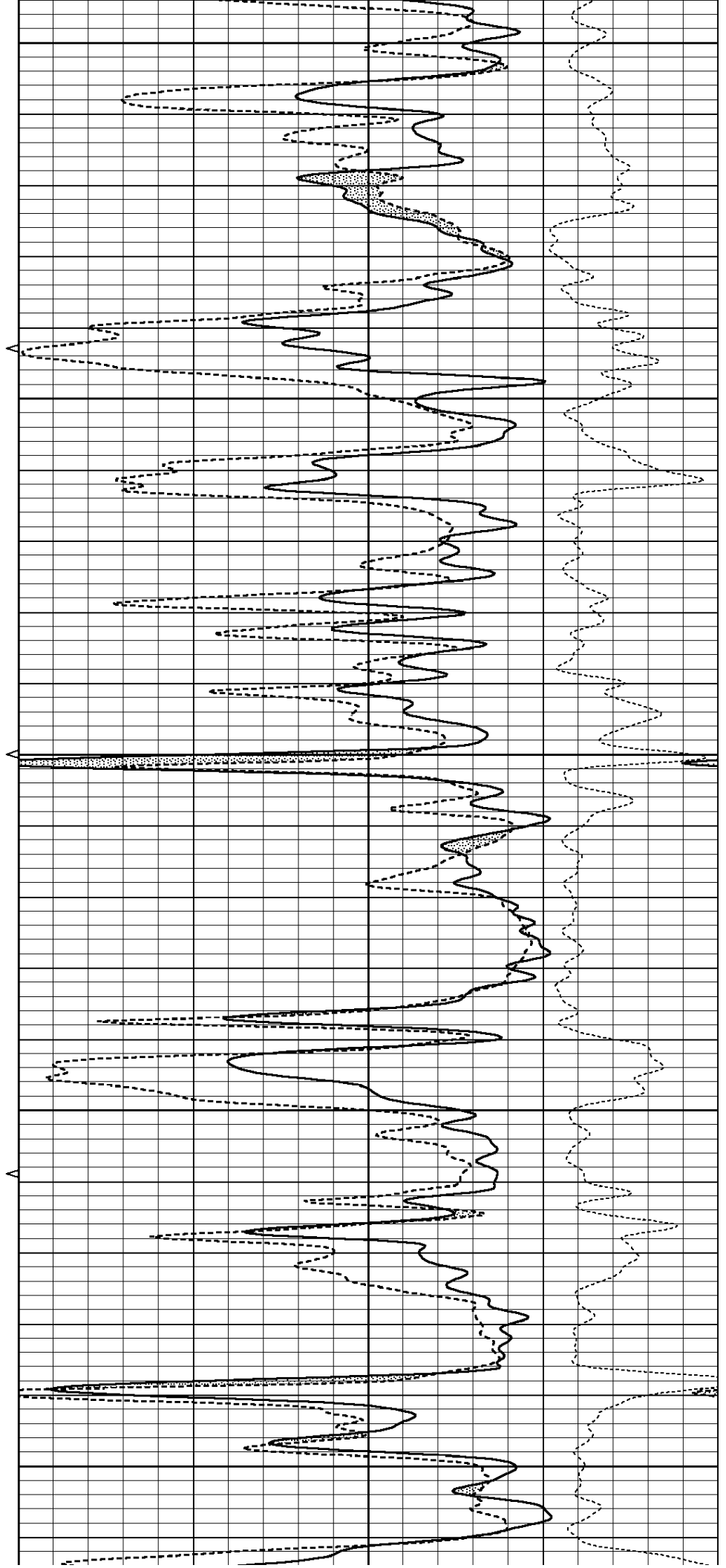
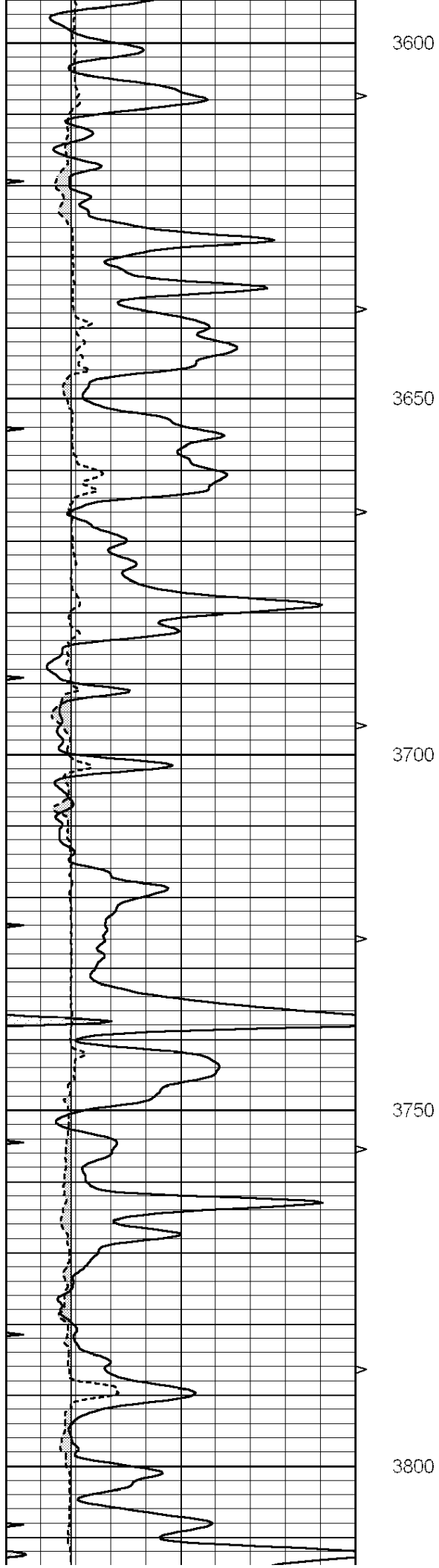
MAIN SECTION

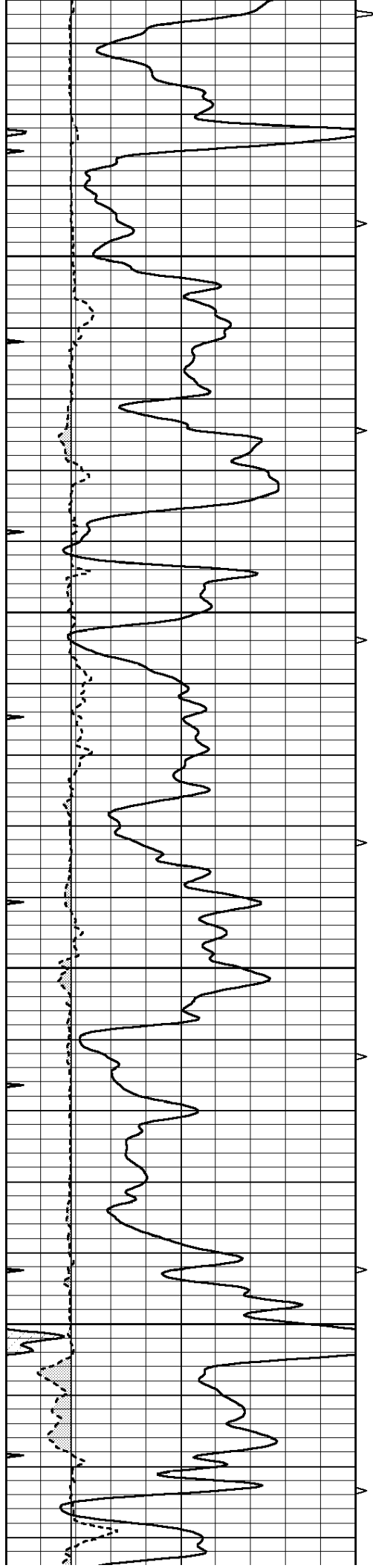
Database File: 2659ddn.db
Dataset Pathname: pass3.4
Presentation Format: den_neu
Dataset Creation: Sat Jul 07 07:46:49 2018
Charted by: Depth in Feet scaled 1:240

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		







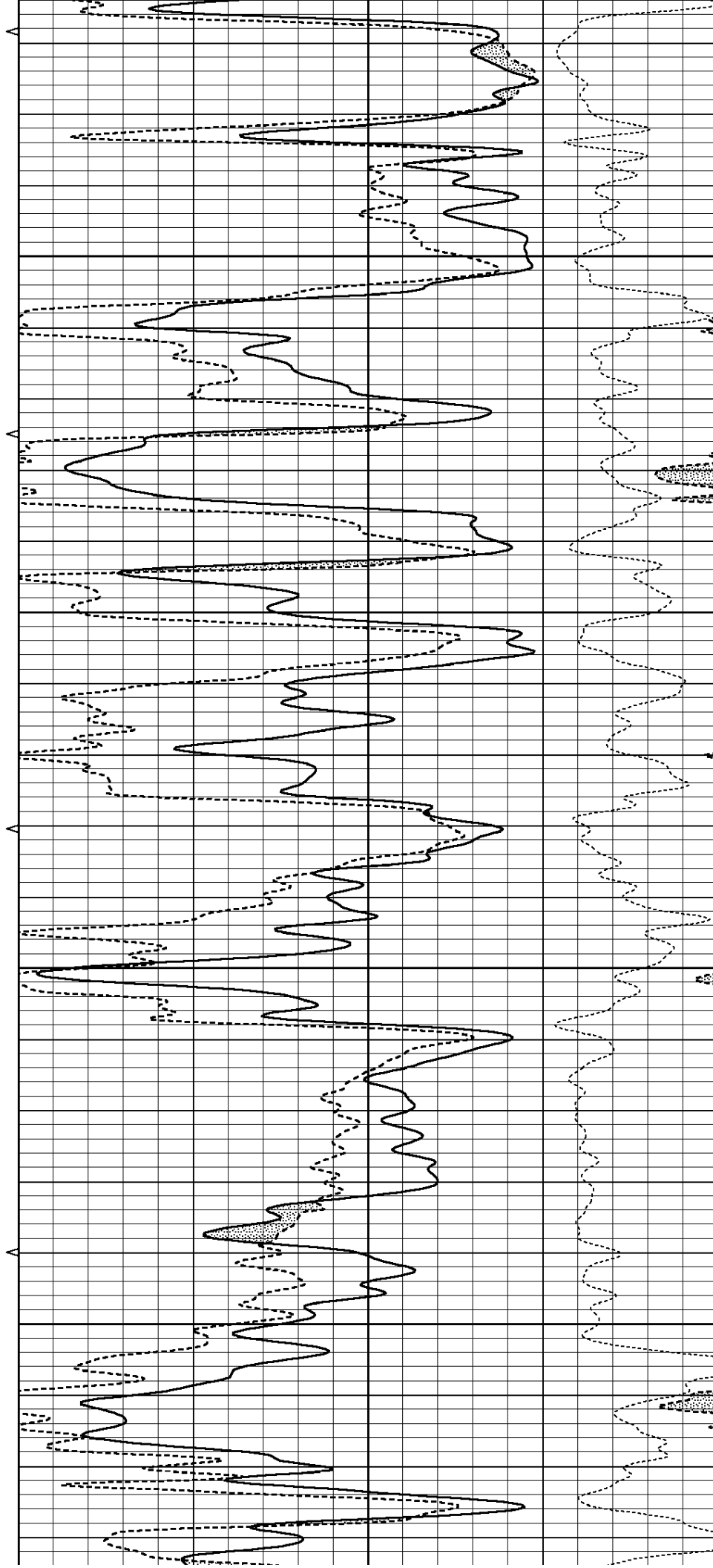


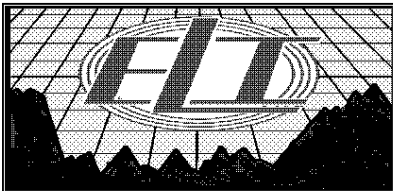
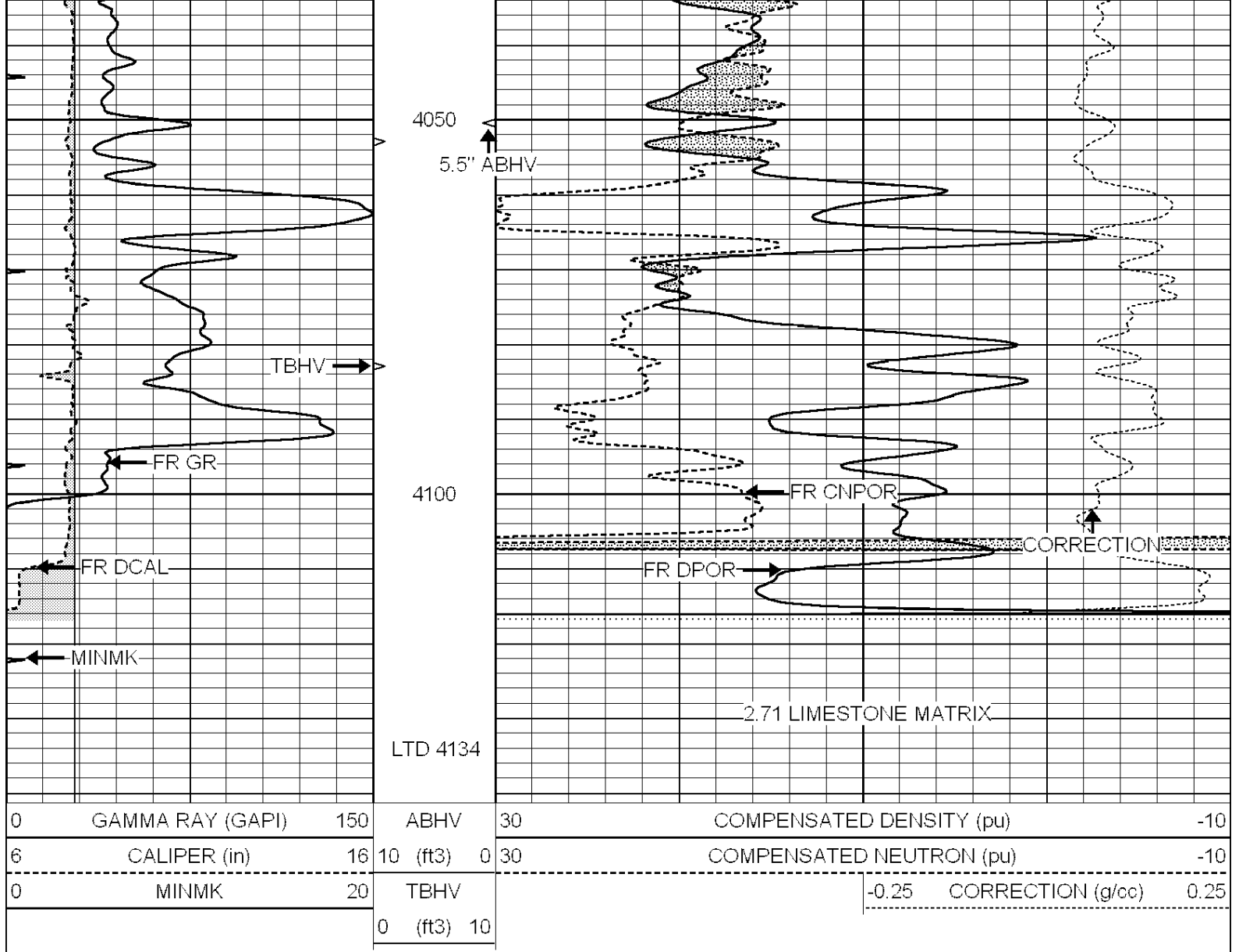
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3900

3950

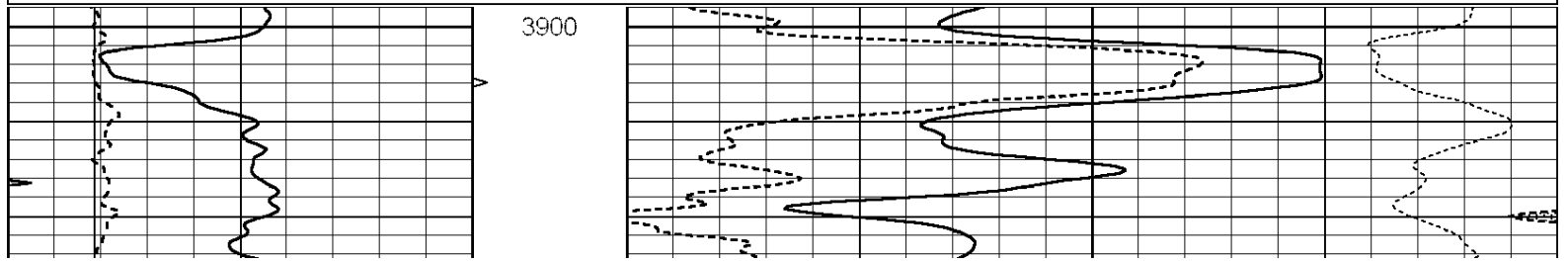
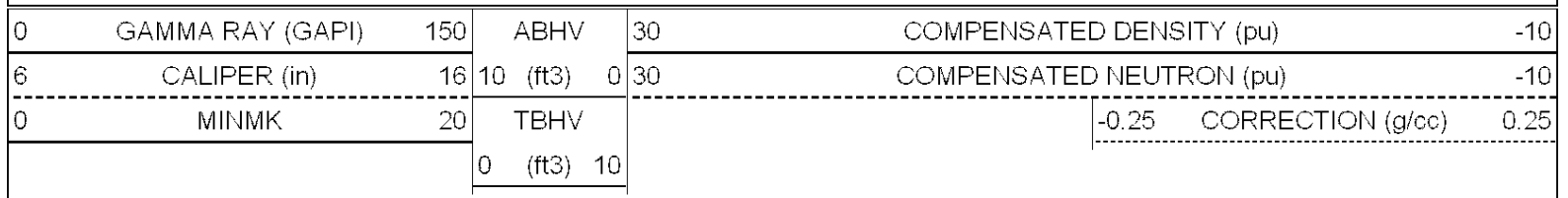
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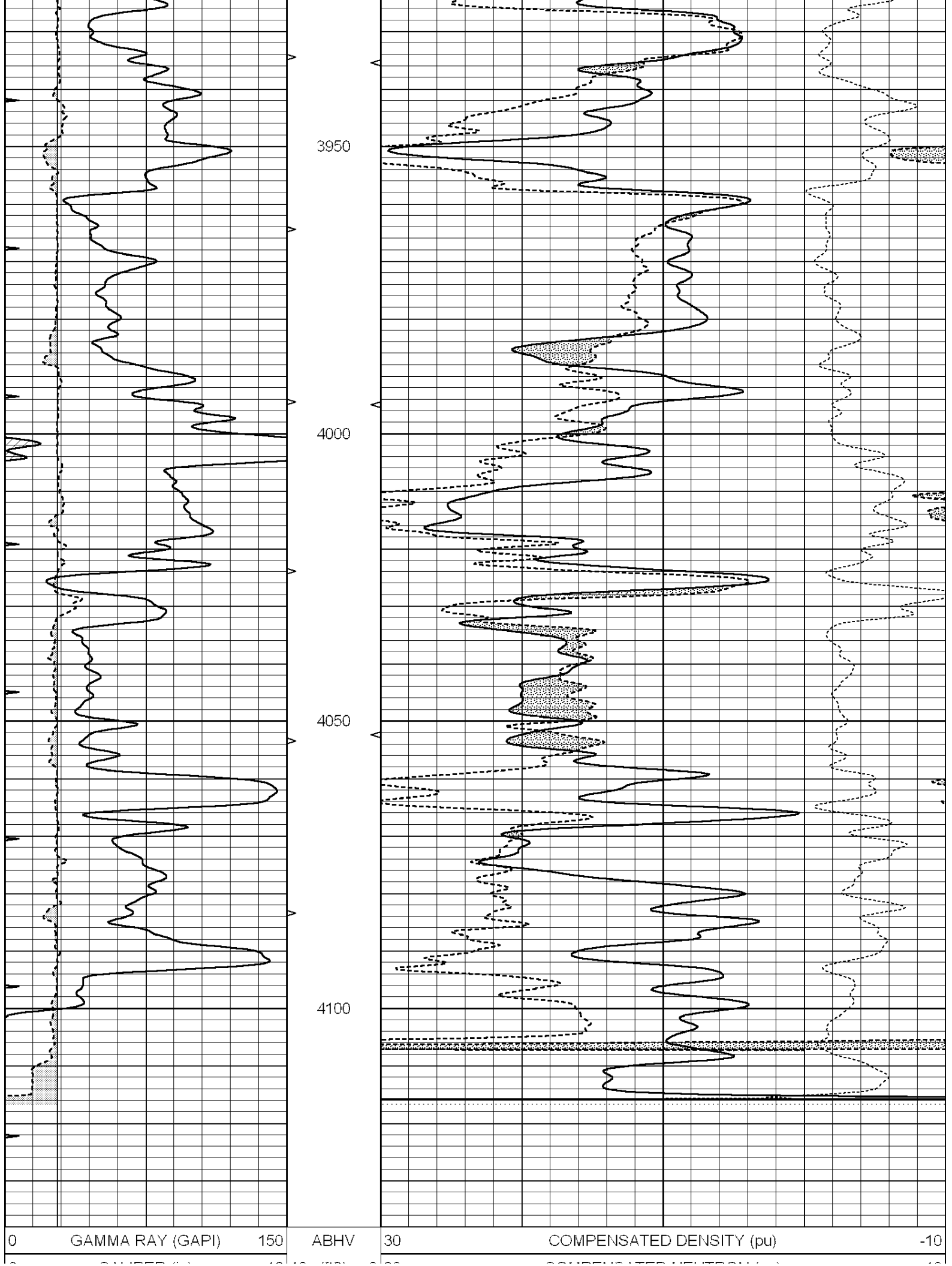




REPEAT SECTION

Database File: 2659ddn.db
Dataset Pathname: pass2.2
Presentation Format: den_neu
Dataset Creation: Sat Jul 07 06:43:19 2018 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240





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				

Calibration Report									
Database File:	1598ddn.db								
Dataset Pathname:	pass4								
Dataset Creation:	Wed Aug 30 02:13:00 2017 by Log SOC 120430								

Dual Induction Calibration Report									
Serial-Model:					PROBE7-DILG				
Surface Cal Performed:					Wed Aug 30 00:06:33 2017				
Downhole Cal Performed:					Mon Jul 28 12:02:56 2008				
After Survey Verification Performed:					Mon Jul 28 12:02:56 2008				

Surface Calibration									
Readings			References				Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	620.000	0.000	
Medium	0.039	0.728	V	0.000	464.000	mmho/m	675.000	-44.000	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256	
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102	

Downhole Calibration									
Readings			References				Results		
	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000	
LL3		7.500	V		1400.000	Ohm-m			
		0.000	V		20.000	Ohm-m			
		-7.200	V		4000.000	mmho-m			

After Survey Verification									
Readings			Targets				Results		
	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000	
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000	
LL3		1.000	Ohm-m		1.000	Ohm-m			
		0.000	Ohm-m		0.000	Ohm-m			
		1.000	mmho-m		1.000	mmho-m			

Litho Density Calibration Report									
Serial: 002					Model: PRB				

Master Calibration					Performed Mon Aug 21 11:27:42 2017				
	Background	Magnesium	Aluminum	Sandstone					
Window 1	837.1	10632.5	2945.1	12110.1				cps	
Window 2	772.0	9117.4	2570.1	10197.3				cps	
Window 3	631.7	4669.0	1481.9	5042.9				cps	
Window 4	187.0	187.5	185.9	189.9				cps	
Long Space	0.0	8345.4	1798.1	9425.3				cps	
Short Space	1.1	1927.9	1285.9	2050.2				cps	
Rho		1.7100	2.5960	1.3800				g/cc	
Pe		0.0000	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	

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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
Sensitivity:	0.2800	GAPI/cps