



COMPENSATED DENSITY / NEUTRON LOG

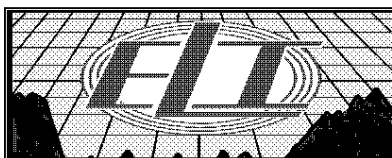
Company	TRIPLE CROWN OPERATING, LLC.		
Well	EPSILON #1-24		
Field	LEIGHTON NORTH		
County	GOVE	State	KANSAS
Location:	APL # : 15-063-22342-0000 2227' FSL & 630' FEL SW - NE - NE - SE		Other Services DIL/MEL SONIC
Permanent Datum	GROUND LEVEL	Elevation	2521
Log Measured From	KELLY BUSHING 5' A.G.L.		
Drilling Measured From	KELLY BUSHING		
SEC 24 TWP 14S RGE 28W			
Date	10/26/18		
Run Number	ONE		
Depth Driller	4410		
Depth Logger	4402		
Bottom Logged Interval	4378		
Top Log Interval	3500		
Casing Driller	8 5/8"@225'		
Casing Logger	225		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2,000 PPM	
Density / Viscosity	9.1/53		
pH / Fluid Loss	8.5/9.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.900@80F		
Rmf @ Meas. Temp	.675@80F		
Rmc @ Meas. Temp	1.08@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.600@120F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	9:15 P.M.		
Maximum Recorded Temperature	120F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	SEAN DEENIHAN	CARLY COX	

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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

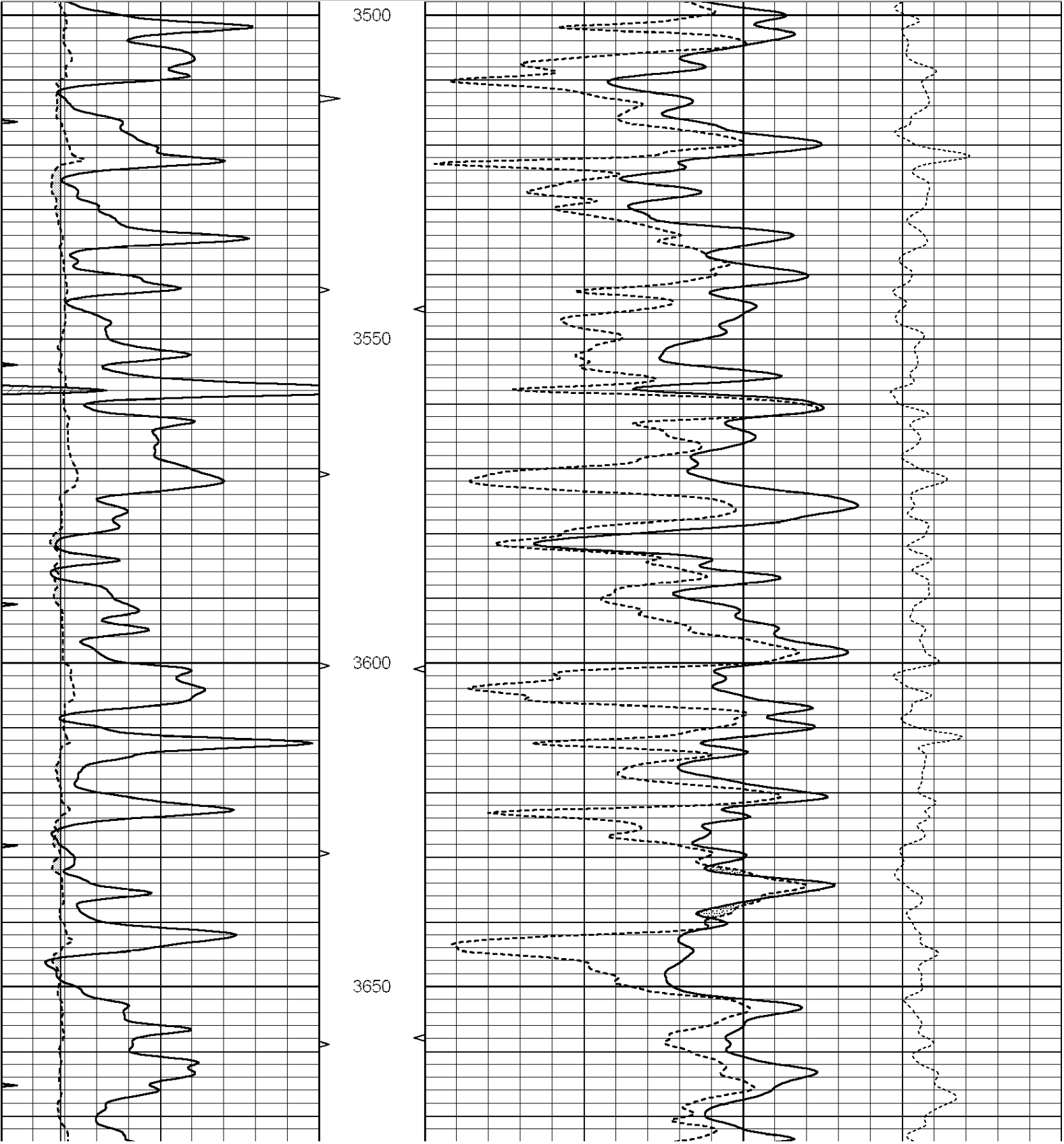
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
PARK, KS, & I-70., 19S., W. INTO

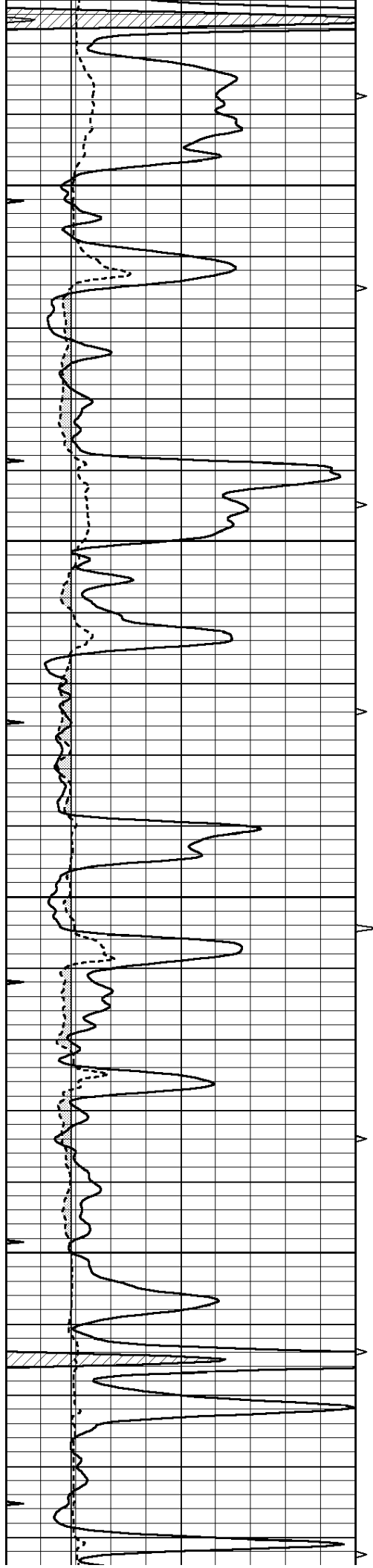


MAIN SECTION

Database File: 2948pe.db
Dataset Pathname: pass3.3
Presentation Format: den_neu
Dataset Creation: Fri Oct 26 22:32:55 2018 by Calc SOC 120430
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		



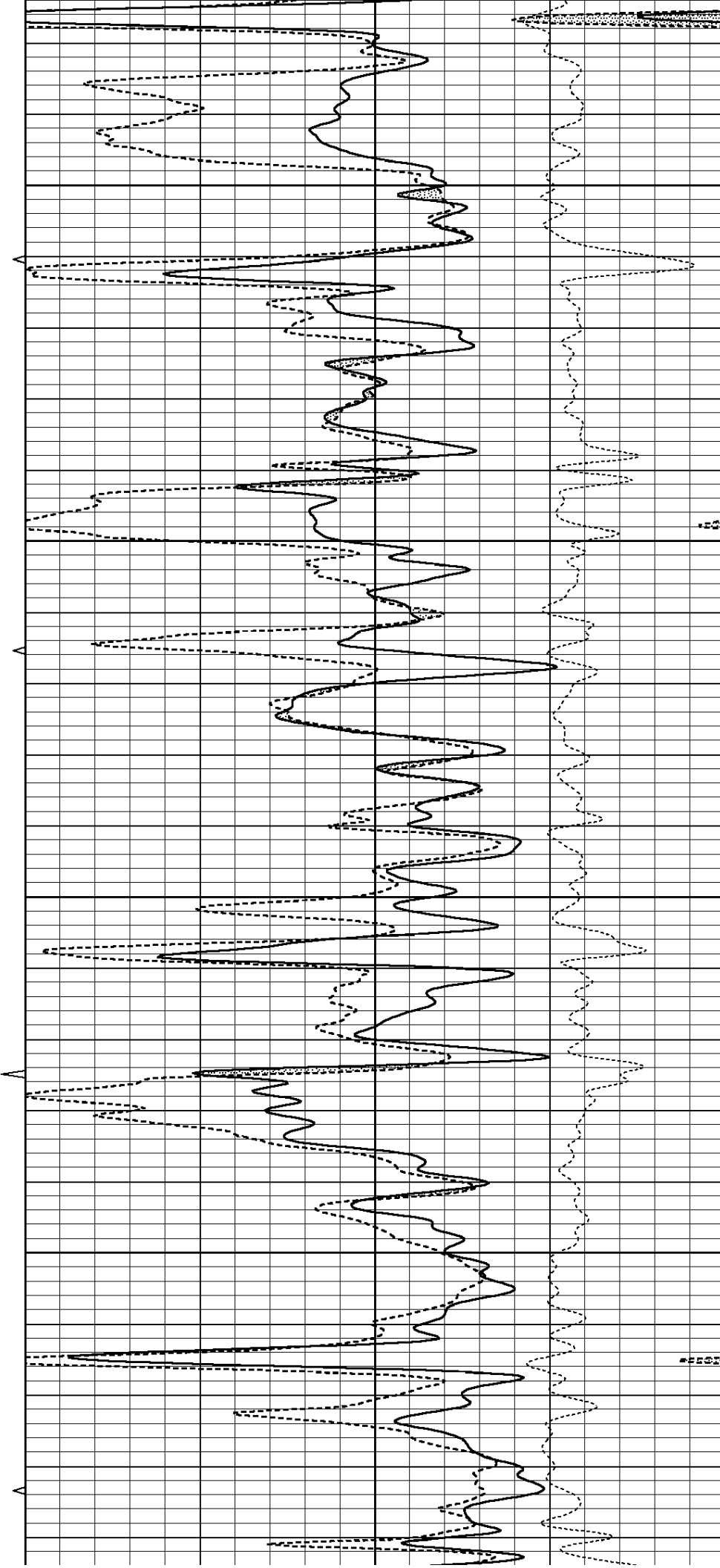


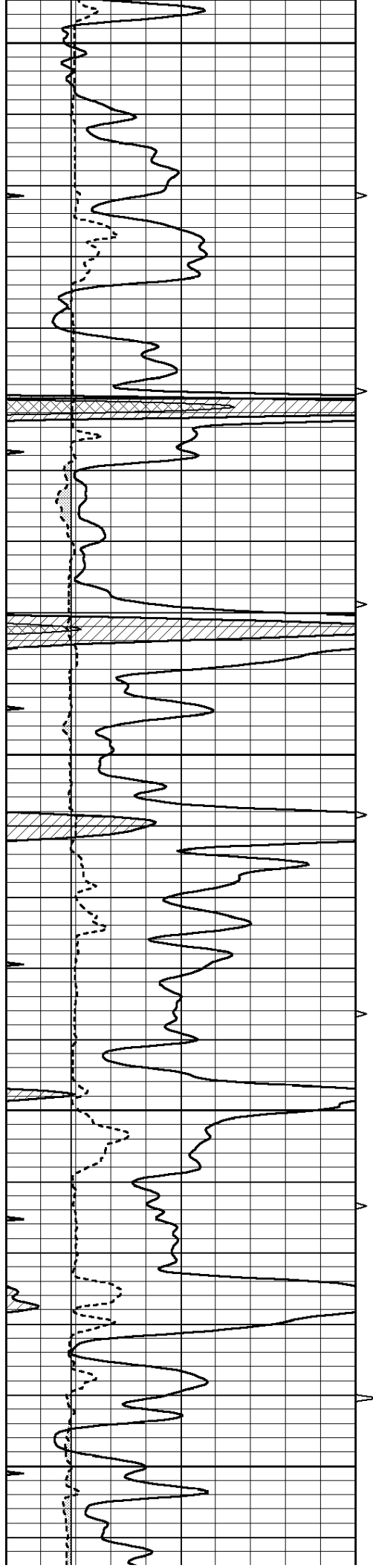
3700

3750

3800

3850





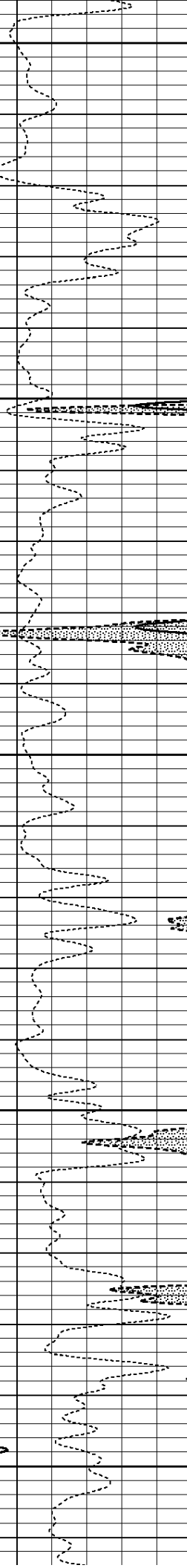
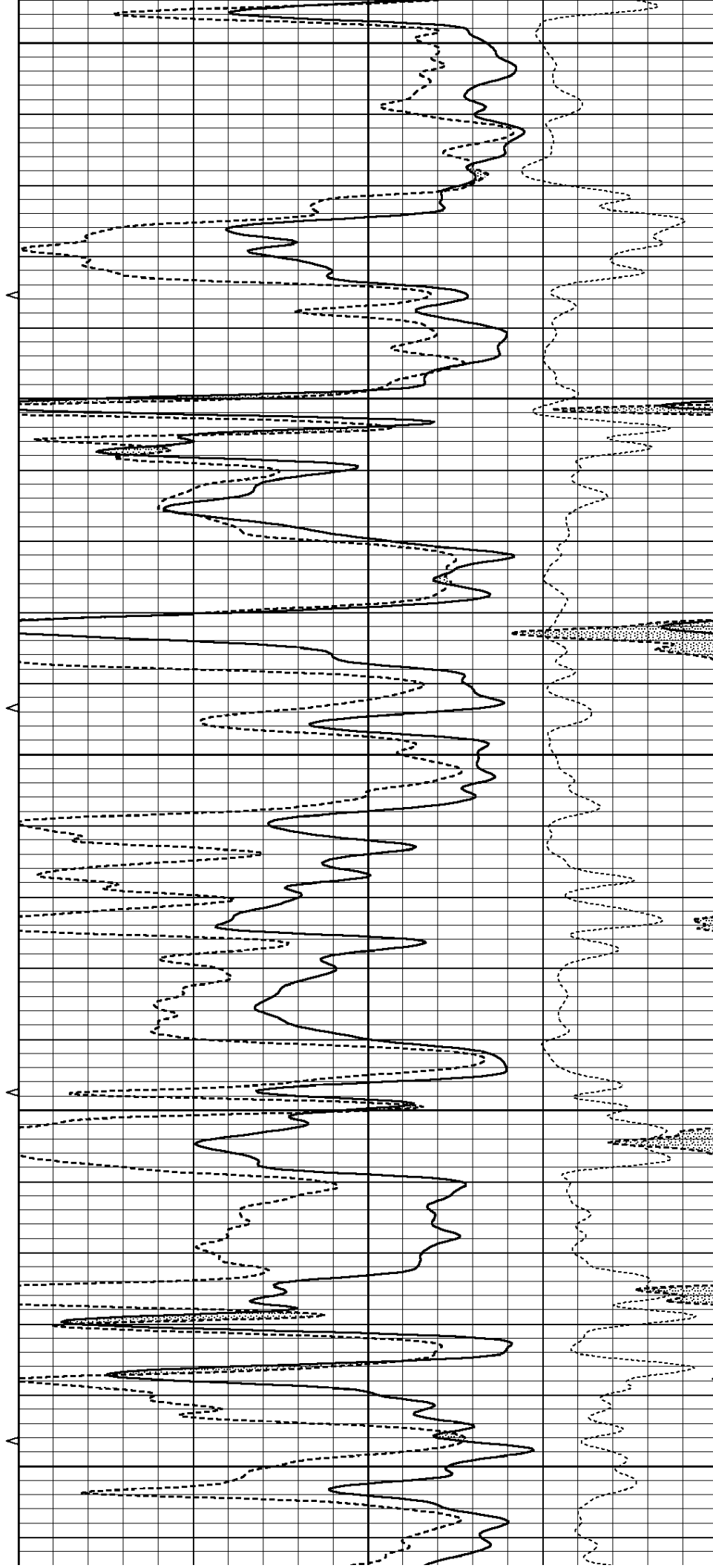
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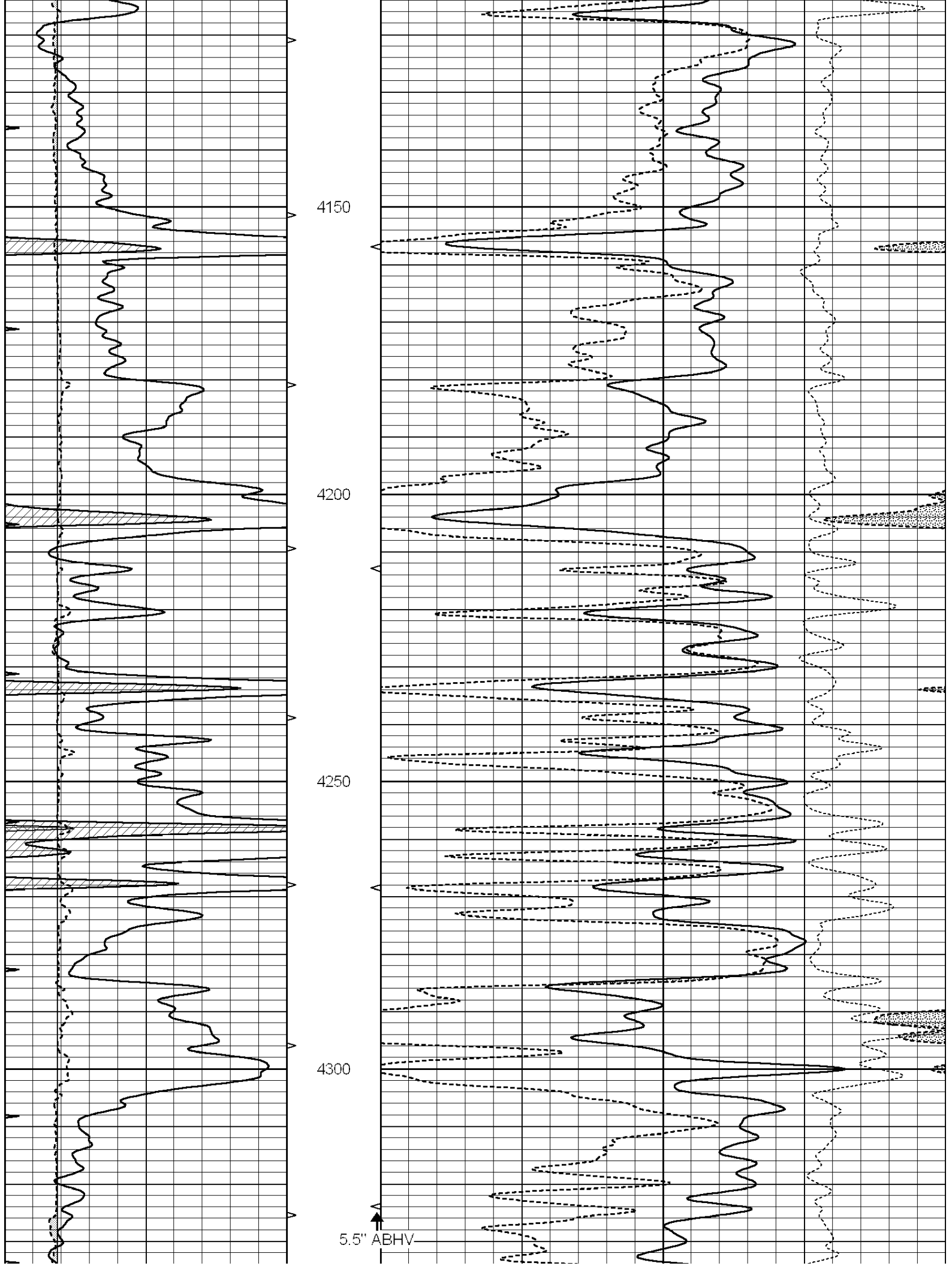
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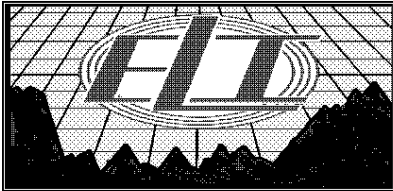
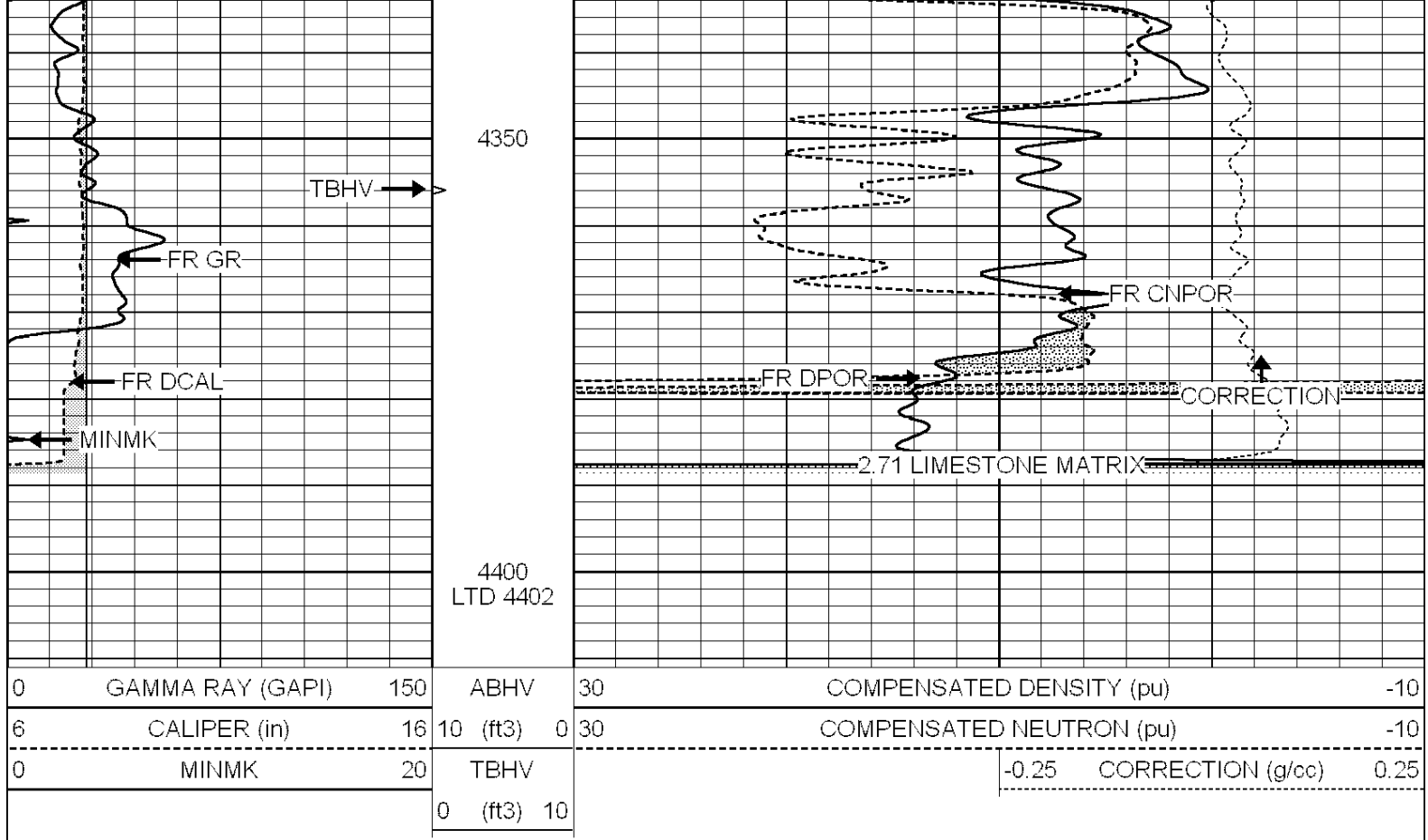
4000

4050

4100

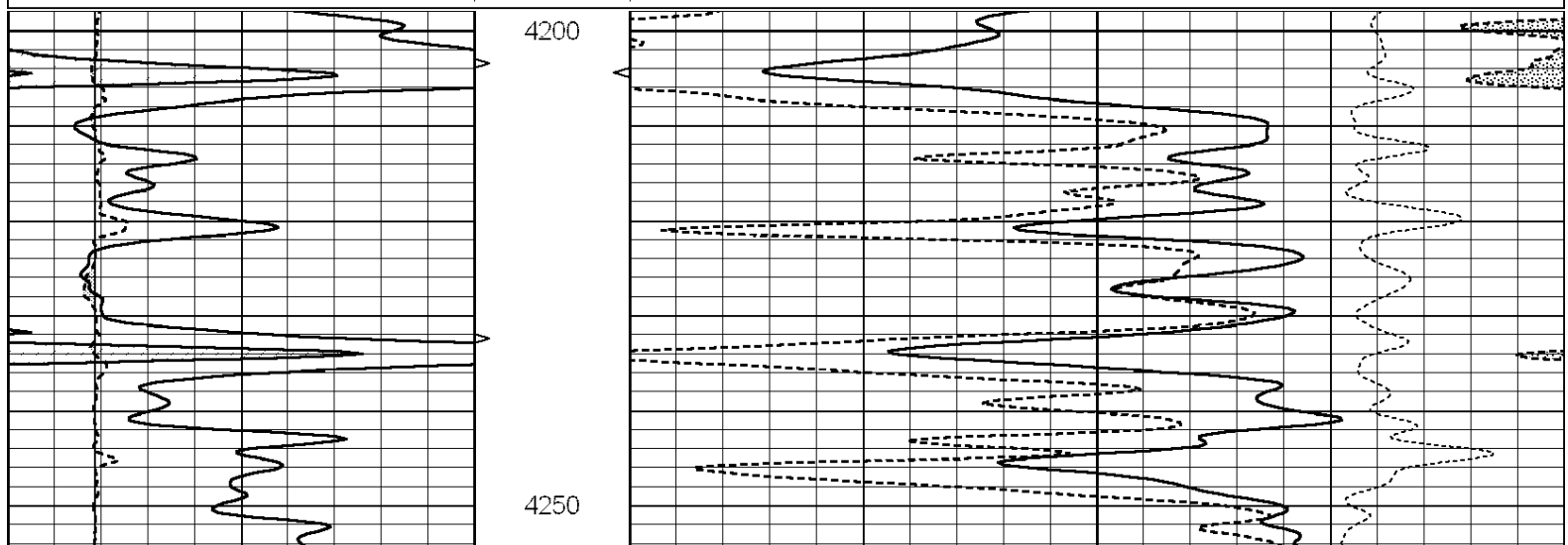
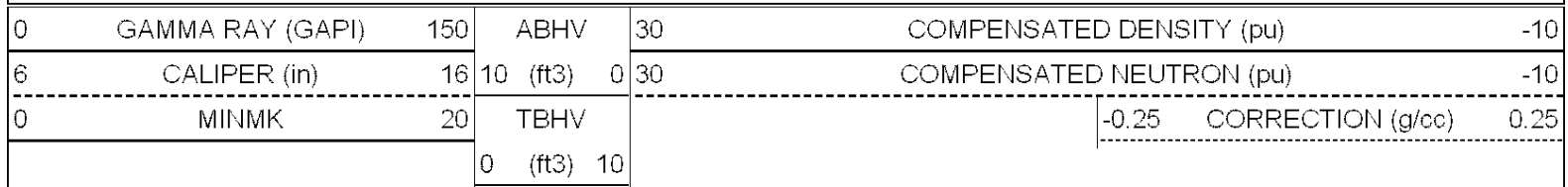


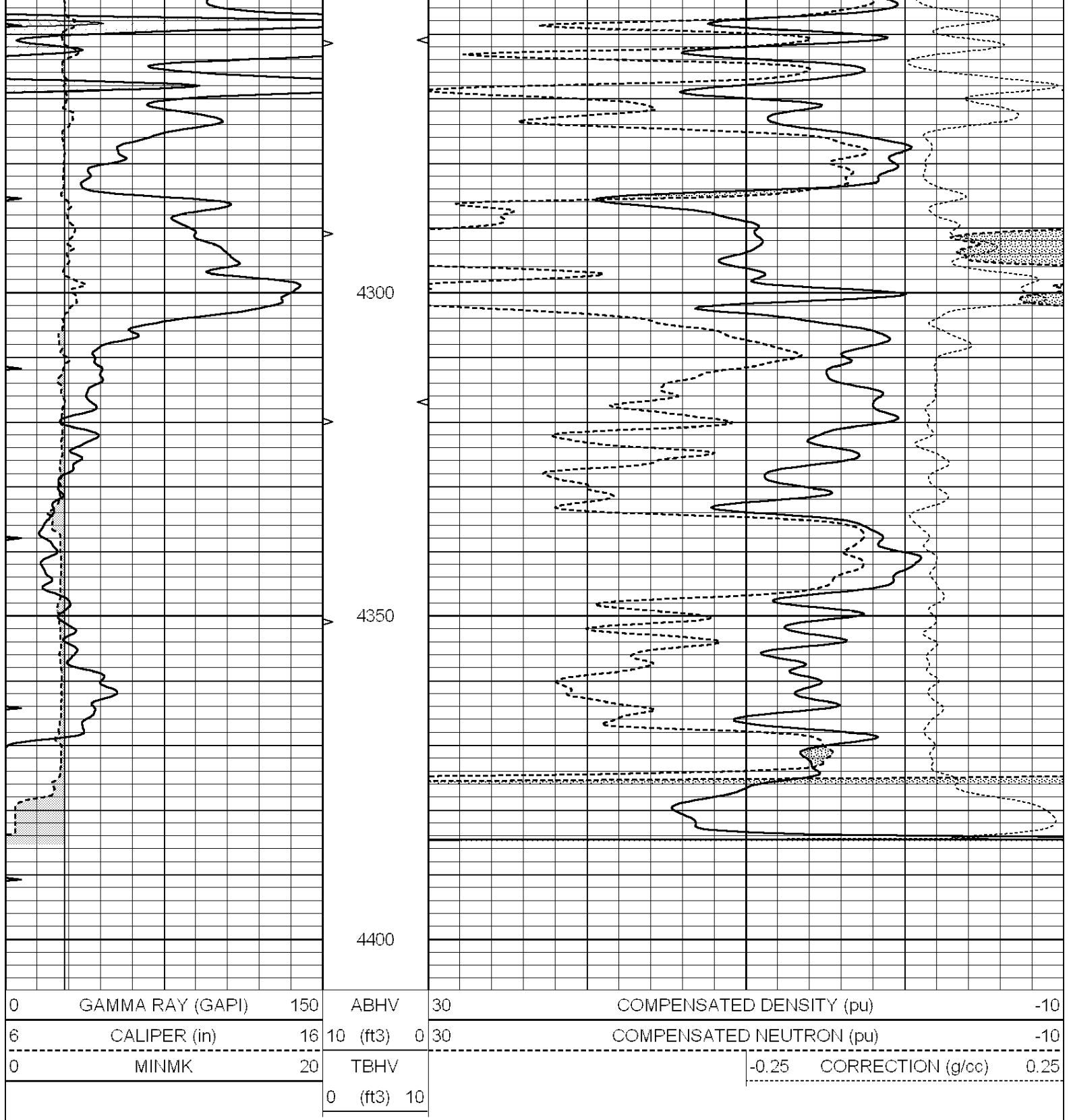




REPEAT SECTION

Database File: 2948pe.db
 Dataset Pathname: pass2.7
 Presentation Format: den_neu
 Dataset Creation: Fri Oct 26 21:52:53 2018 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240





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	mmho/m	0.000	0.000	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		1.000	Ohm-m				
		0.000	Ohm-m		0.000	Ohm-m		0.000	Ohm-m				
		1.000	mmho-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					

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

Sensitivity: 0.2800 GAPI/cps