



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY / NEUTRON LOG

Company		PFEIFER EXPLORATIONS, LLC.	
Well	GROSS #1		
Field	WILDCAT		
County	ELLIS	State	KANSAS
Location:	API # : 15-051-26419-0000 2060' FSL & 855' FEL SE - NW - NE - SE SEC 30 TWP 14S RGE 19W		Other Services DIL/MEL
Permanent Datum	GROUND LEVEL	Elevation	2125
Log Measured From	KELLY BUSHING 9' A.G.L.		
Drilling Measured From	KELLY BUSHING	Elevation	KB. 2134 D.F. 2132 G.L. 2125
Date	11/12/12		
Run Number	ONE		
Depth Driller	3820		
Depth Logger	3822		
Bottom Logged Interval	3798		
Top Log Interval	3000		
Casing Driller	8 5/8" @ 230'		
Casing Logger	220		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 9,000 PPM	
Density / Viscosity	9.1/52		
pH / Fluid Loss	10.5/8.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.500 @ 85F		
Rmf @ Meas. Temp	.375 @ 85F		
Rmc @ Meas. Temp	.600 @ 85F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.373 @ 114F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	12:00 P.M.		
Maximum Recorded Temperature	114F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	DUANE STECKLEIN	JAY PFEIFER	

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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 "NABORS" HAYS, KANSAS (785) 628-6395
 DIRECTIONS
 HAYS, KS., W. ON GOLF COURSE RD. TO "RD. 170", 3 1/2S., W. INTO

Database File:

010011ddn.db

Dataset Pathname:

pass3.7

Presentation Format:

den_neu

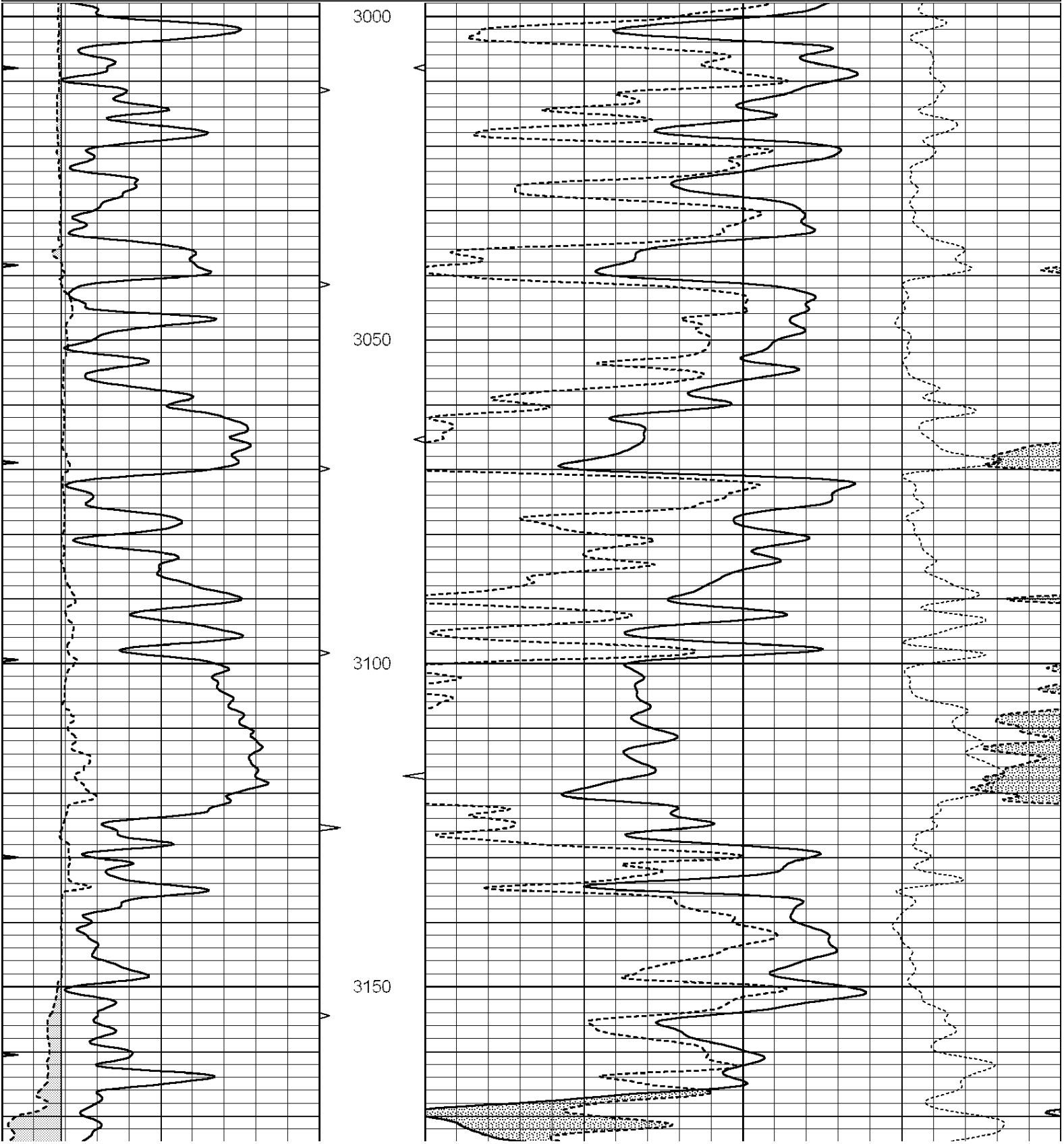
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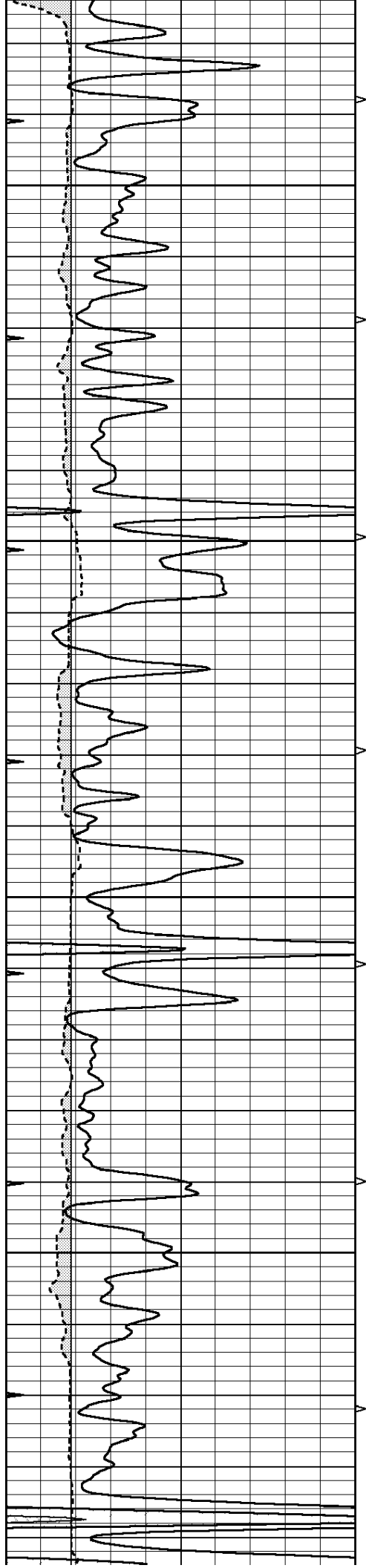
Mon Nov 12 13:16:49 2012

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		



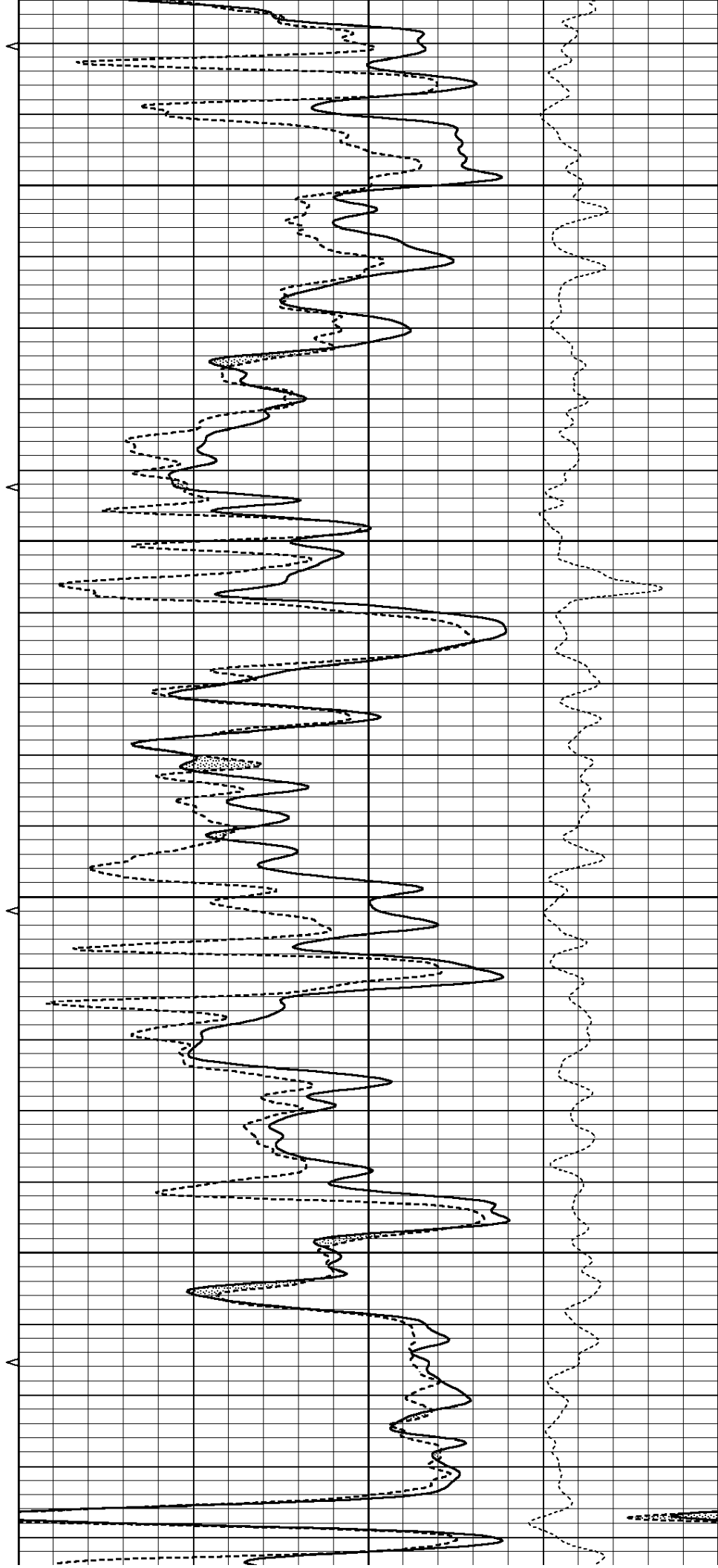


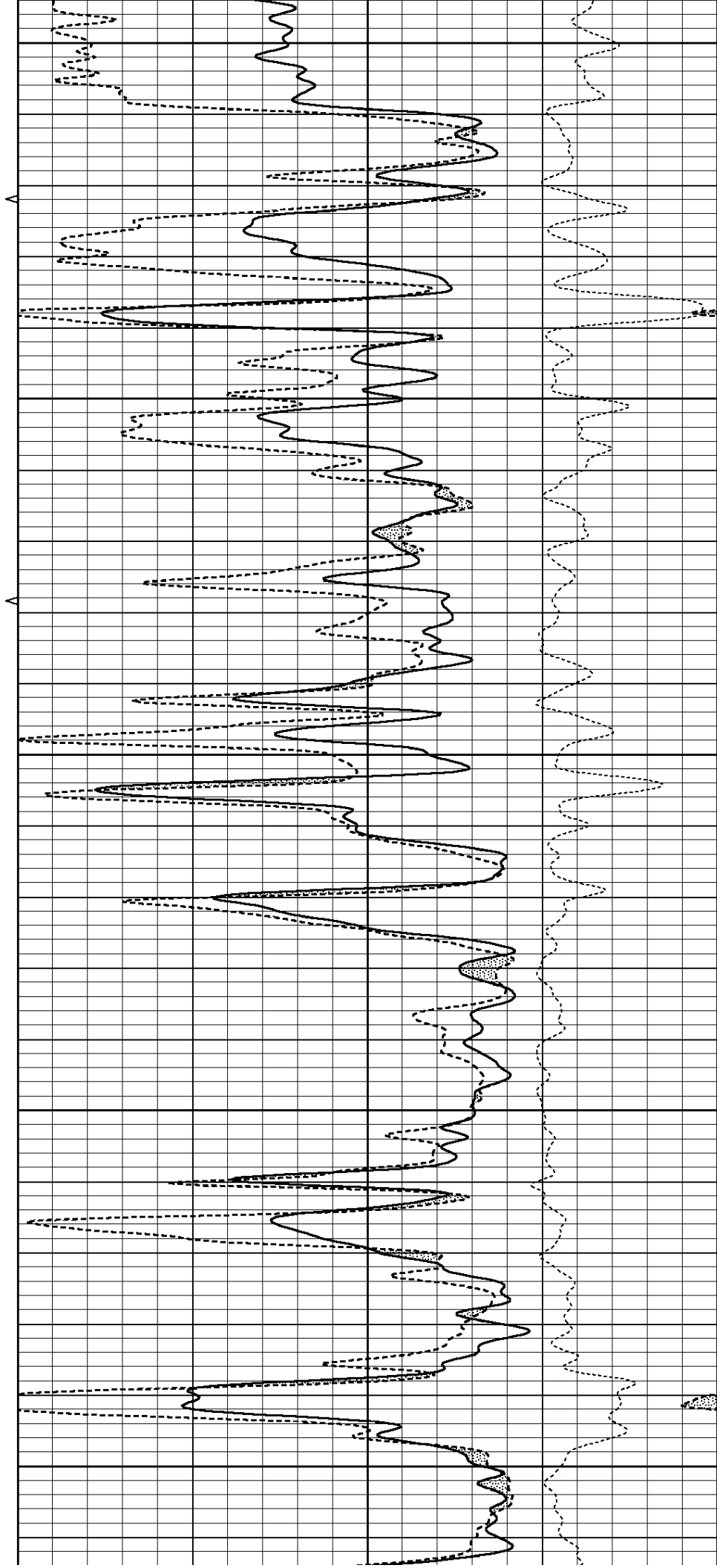
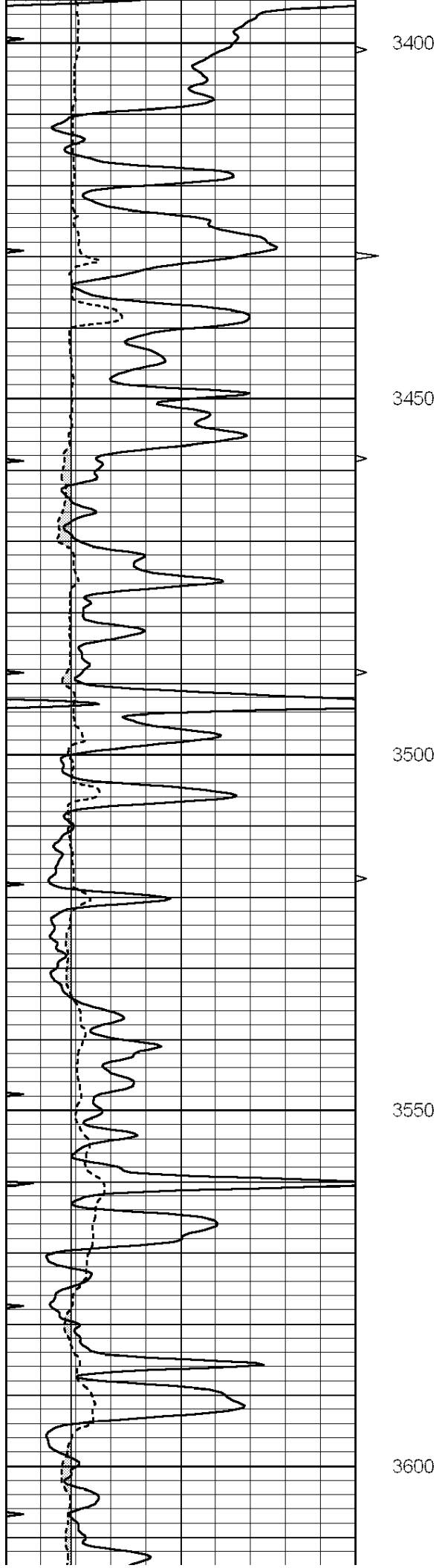
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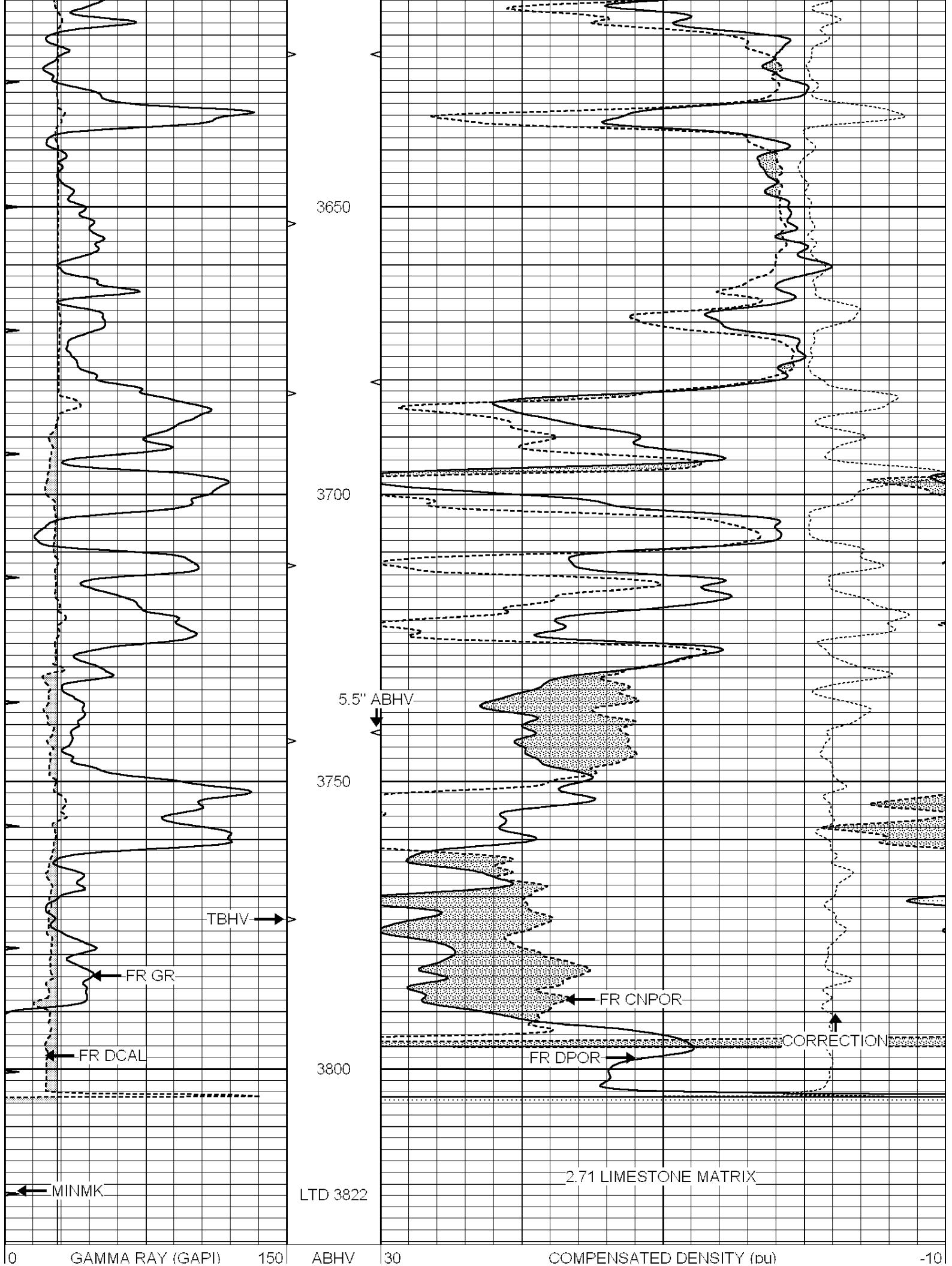
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3300

3350







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			

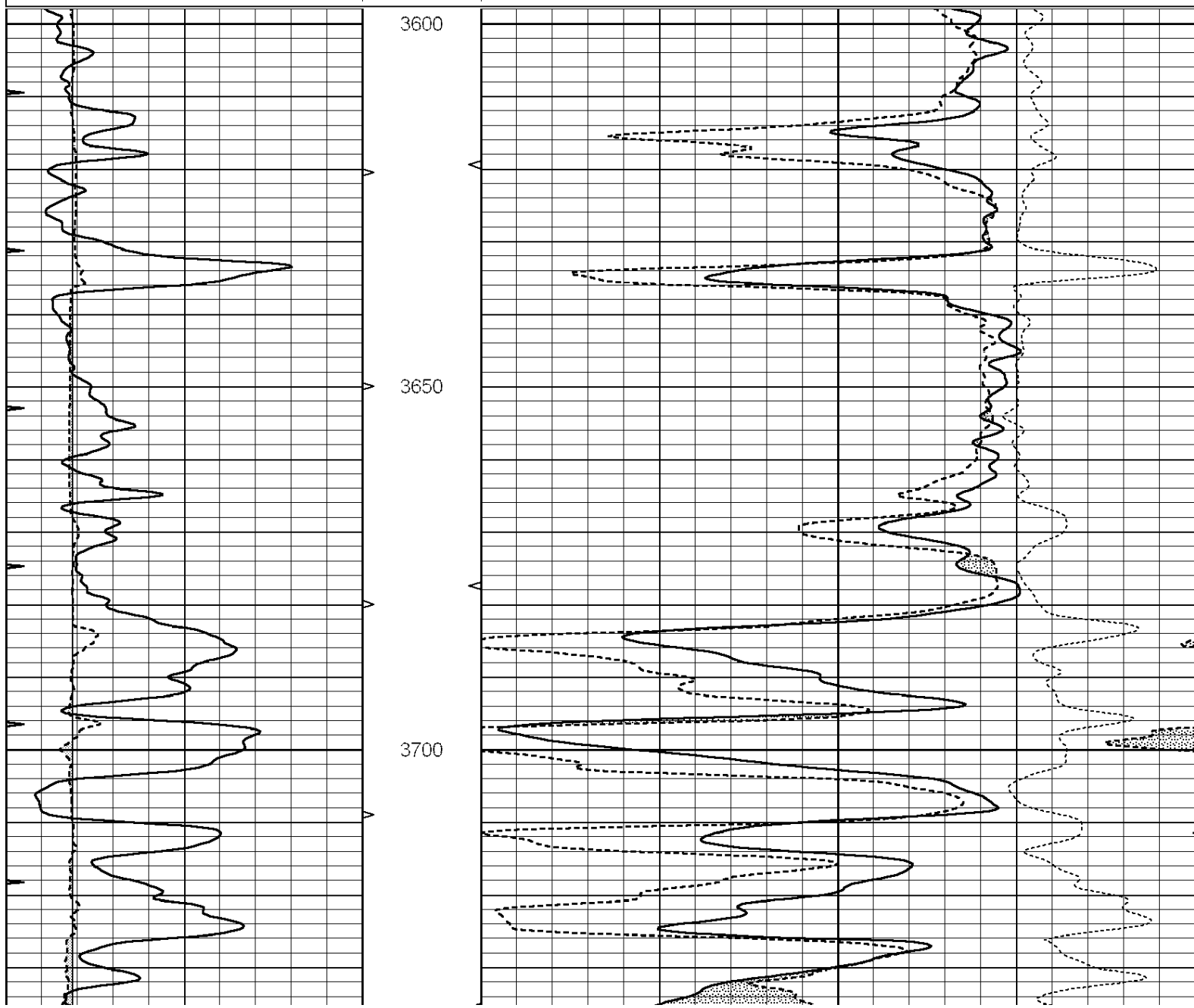


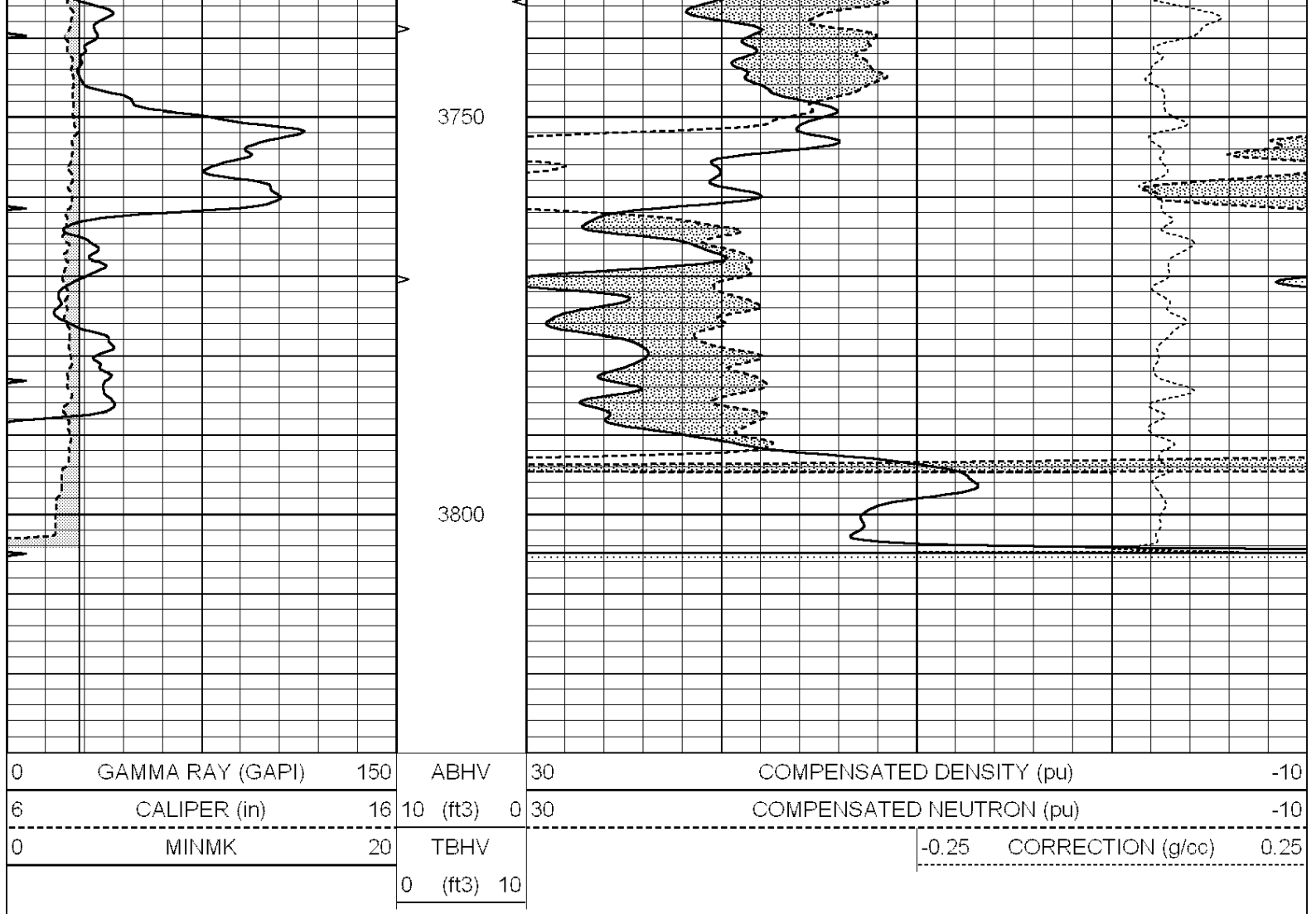
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REPEAT SECTION

Database File: 010011ddn.db
Dataset Pathname: pass2.5
Presentation Format: den_neu
Dataset Creation: Mon Nov 12 13:34:23 2012
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			





Calibration Report

Database File: 010011ddn.db
 Dataset Pathname: pass3.7
 Dataset Creation: Mon Nov 12 13:16:49 2012

Dual Induction Calibration Report

Serial-Model: DIL4-GEAR
 Performed: Mon Nov 12 12:13:39 2012

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.666	V	0.000	400.000	mmho/m	570.000	-6.000
Medium	-0.003	0.769	V	0.000	462.500	mmho/m	560.000	-6.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.013	0.651	V	0.000	400.000	mmho/m	627.541	-8.365
Medium	0.020	0.754	V	0.000	462.500	mmho/m	630.311	-12.549

Litho Density Calibration Report
 Serial: 003N Model: PRB
 Performed Tue Sep 08 14:14:44 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2042.6	12312.8	4225.8	13758.4	cps

Window 2	1855.8	10134.7	3624.2	11113.1	cps
Window 3	1639.4	6760.2	2716.3	7260.3	cps
Window 4	466.4	469.2	466.1	476.5	cps
Long Space	0.0	8278.9	1768.4	9257.4	cps
Short Space	2.2	2377.3	1544.1	2574.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8

Caliper					
Low Ref	Readings	Reference			
High Ref	3.4	8.0			
	5.0	15.0			
	Gain: 4.5		Offset: -7.1		

Compensated Neutron Calibration Report
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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:	070559		
Tool Model:	OPEN_GR		
Performed:	Wed Sep 19 15:58:00 2012		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	