



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	DOWNING - NELSON OIL CO. INC.		
Well	STALNAKER "B" #1-14		
Field	WILDCAT		
County	TREGO		
State	KANSAS		
Company	DOWNING - NELSON OIL COMPANY, INC.		
Well	STALNAKER "B" #1-14		
Field	WILDCAT		
County	TREGO		
State	KANSAS		
Location:	API # : 15-195-22847-0000		Other Services
	2369' FSL & 410' FWL		DIL/MEL
	NE - NW - NW - SW		SONIC
	SEC 14 TWP 14S RGE 21W		
Permanent Datum	GROUND LEVEL	Elevation	2218
Log Measured From	KELLY BUSHING 8' A.G.L.		
Drilling Measured From	KELLY BUSHING		
		Elevation	K.B. 2226
			D.F. 2224
			G.L. 2218
Date	2/27/13		
Run Number	ONE		
Depth Driller	4079		
Depth Logger	4081		
Bottom Logged Interval	4057		
Top Log Interval	3200		
Casing Driller	8 5/8"@218'		
Casing Logger	218		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8,000 PPM	
Density / Viscosity	9.0/46		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.540@83F		
Rmf @ Meas. Temp	.405@83F		
Rmc @ Meas. Temp	.648@83F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.383@117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	9:45 A.M.		
Maximum Recorded Temperature	117F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	RON NELSON		

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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

ELLIS, KS. S. ON BLKTOP TO "VICTORIA RD." (LAKE RD.) W. TO "RD. 390", 2S. PAST "S" CURVE, E. INTO



NABORS

**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File:

010417ddn.db

Dataset Pathname:

pass3.11

Presentation Format:

den_neu

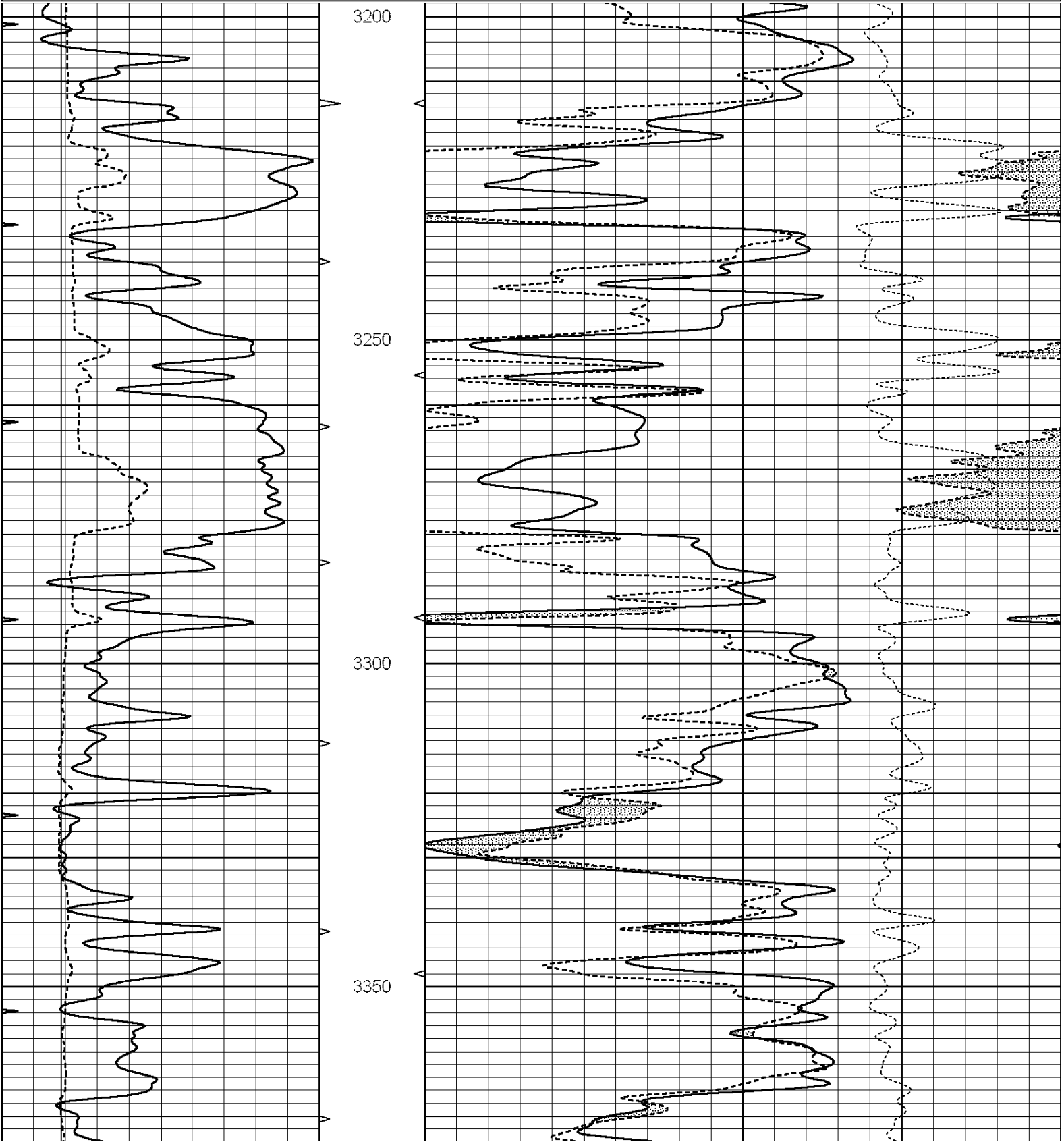
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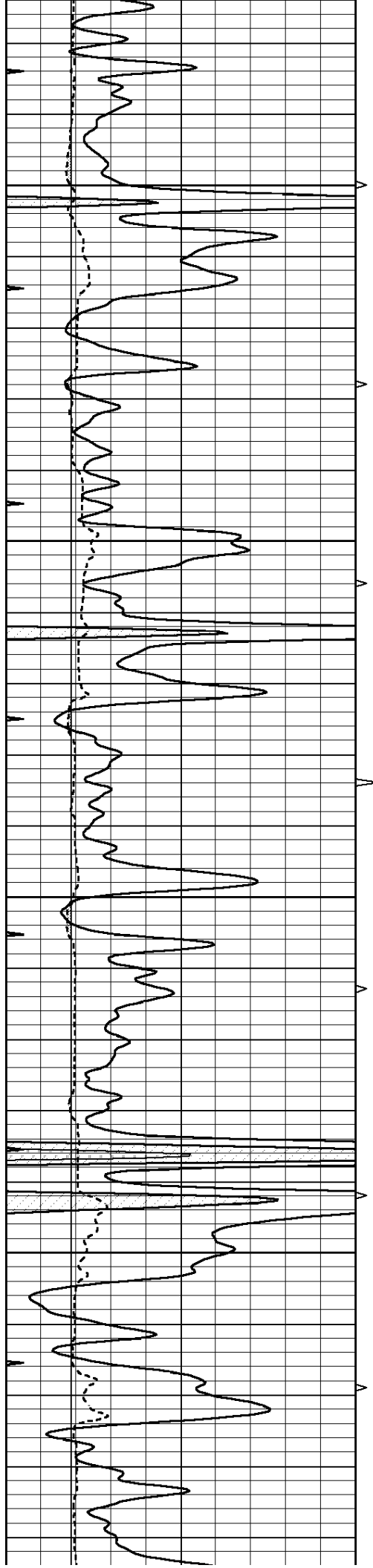
Wed Feb 27 10:59:52 2013

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		



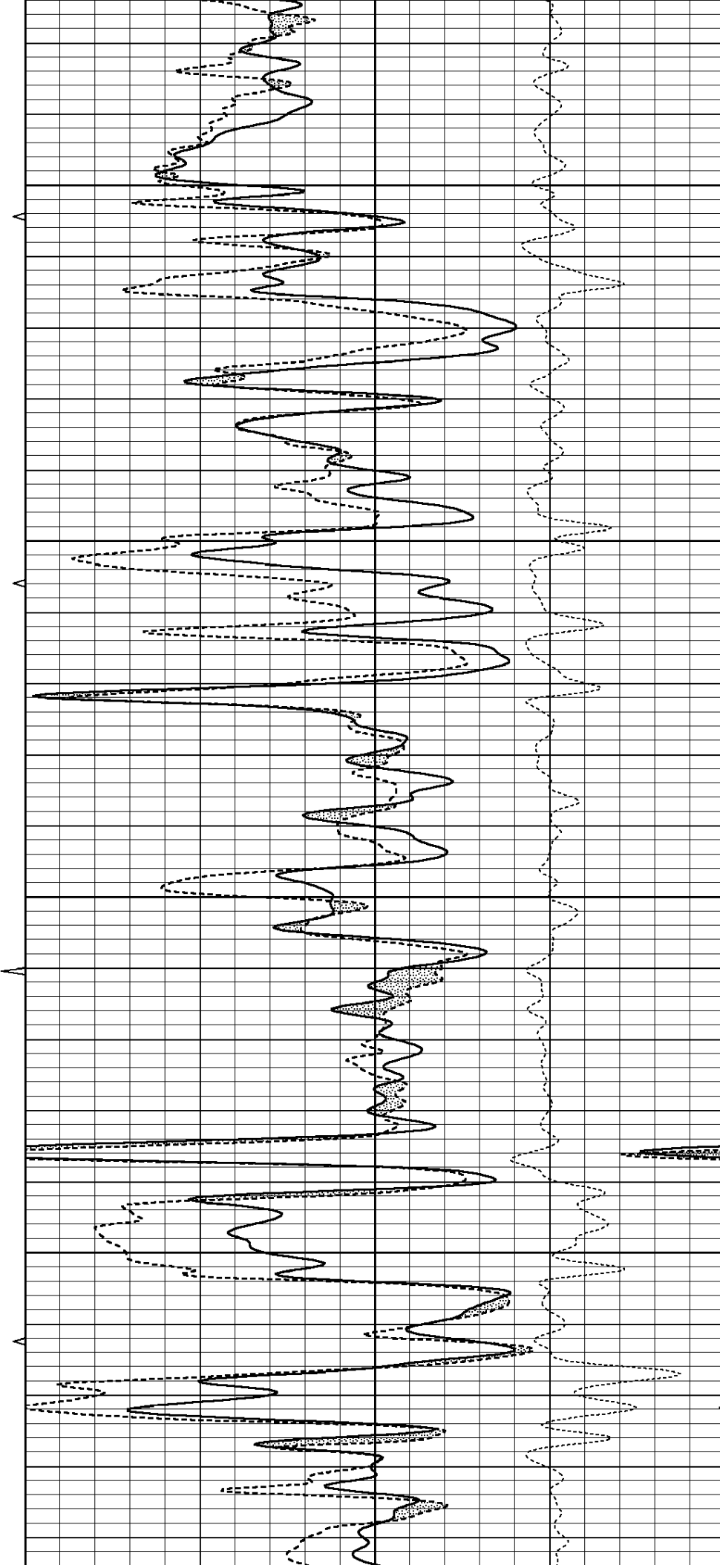


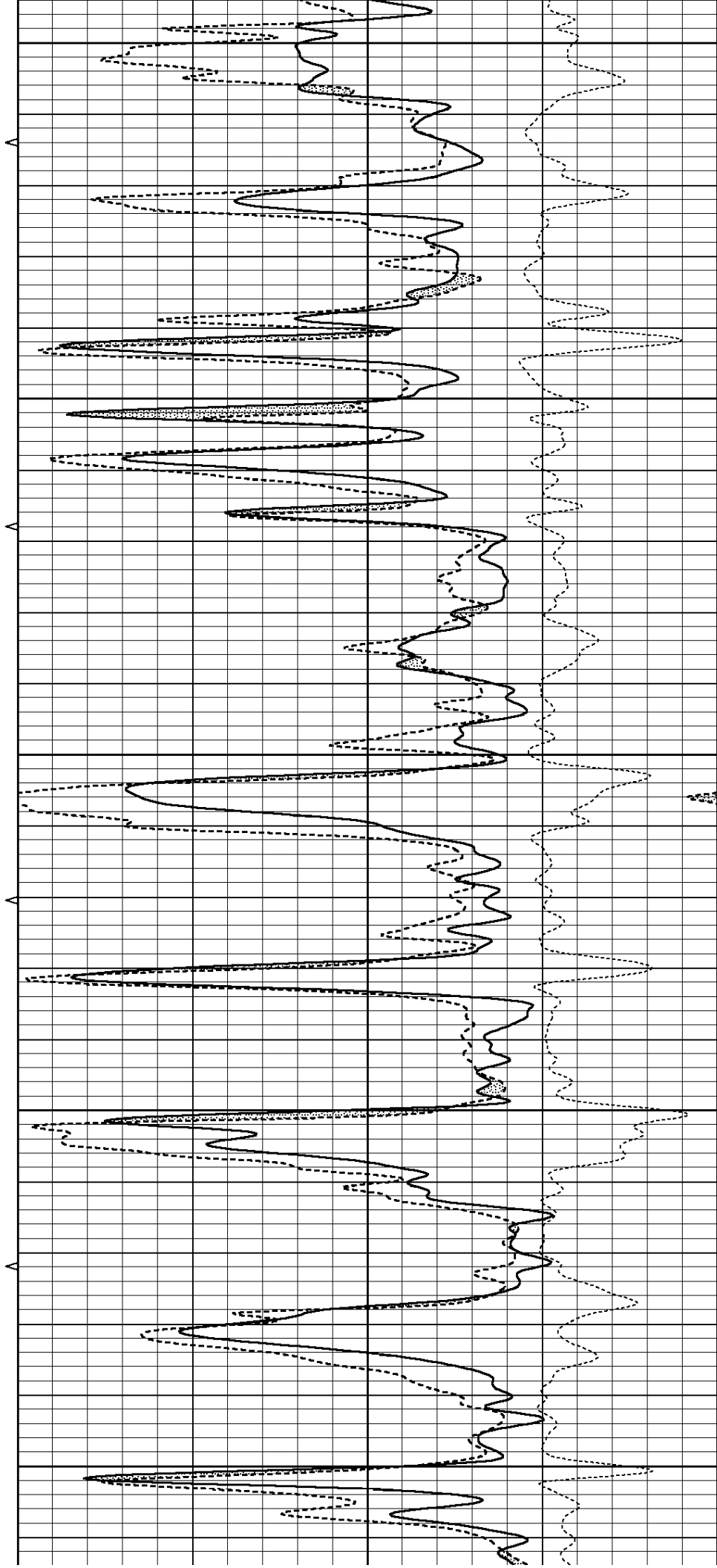
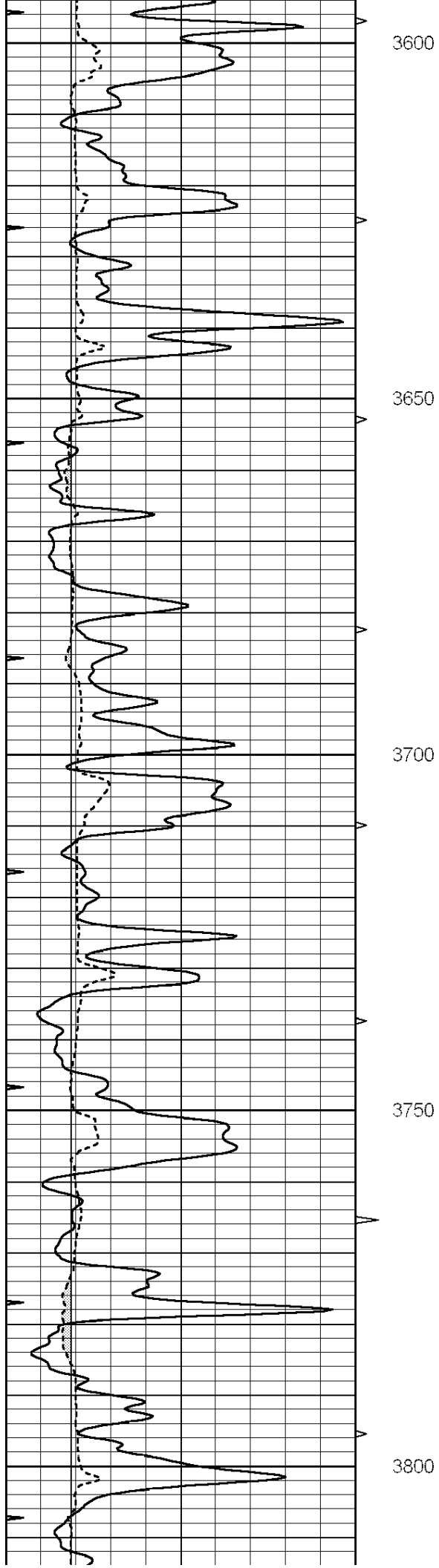
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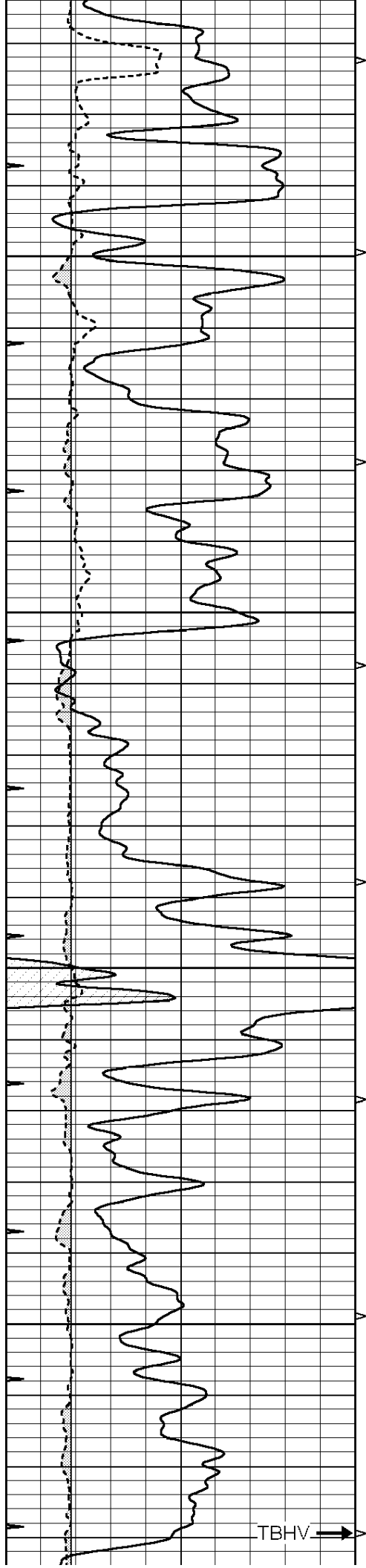
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3500

3550







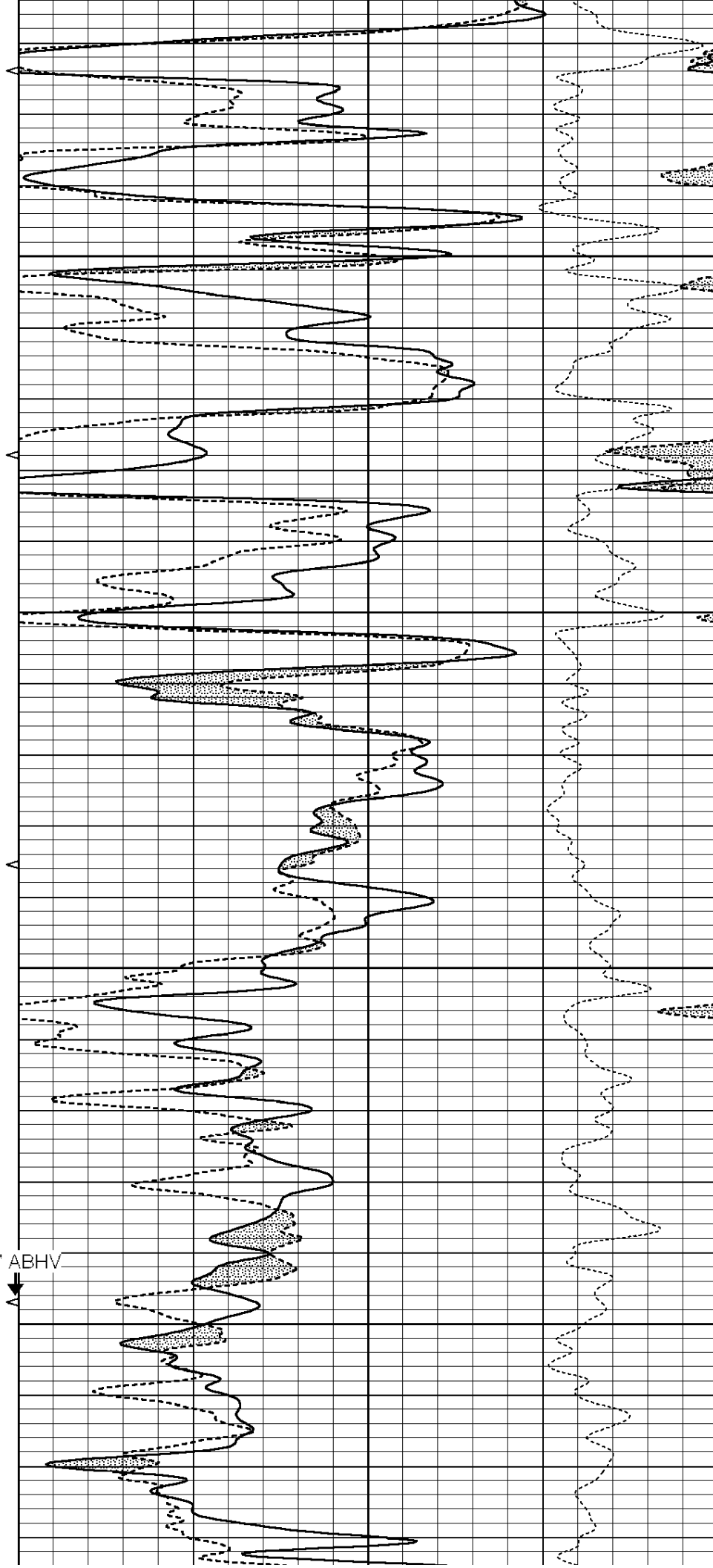
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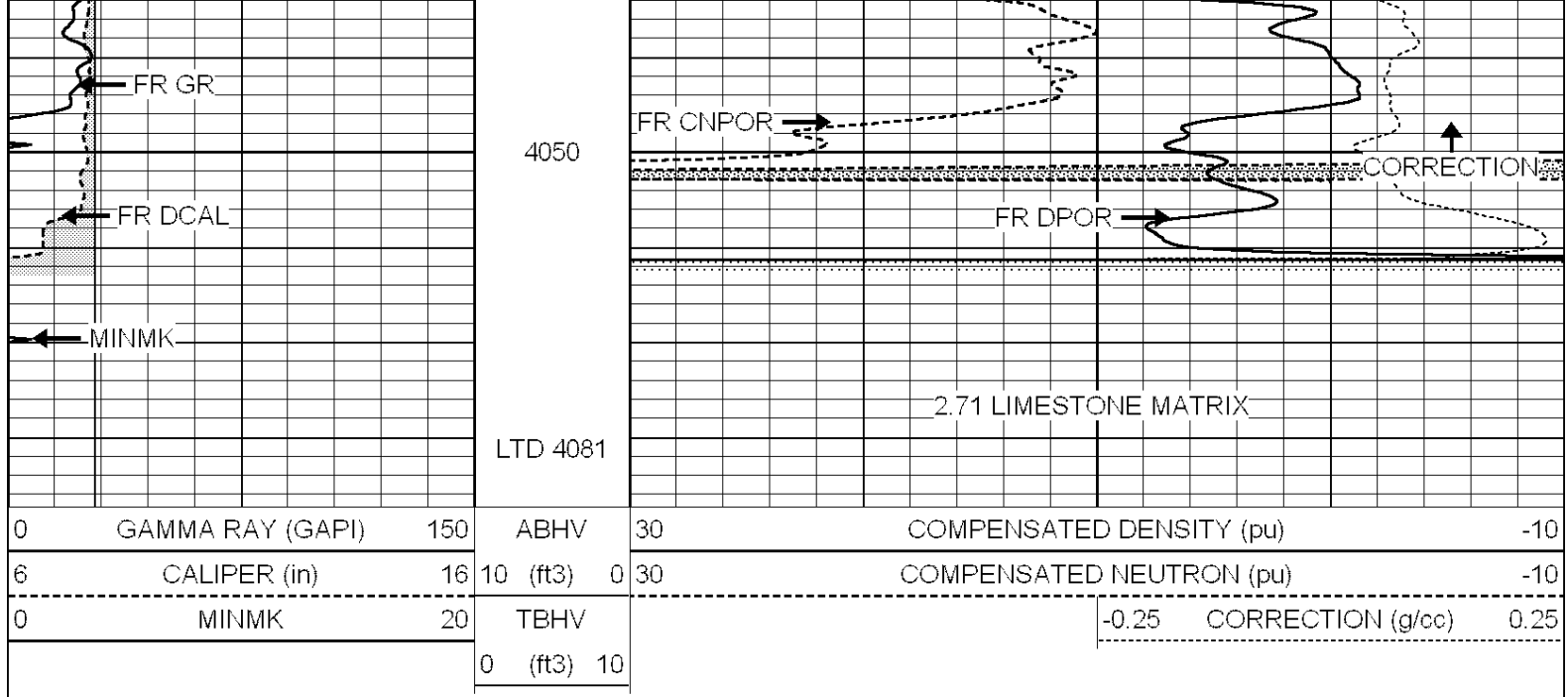
4000

TBHV →



5.5" ABHV



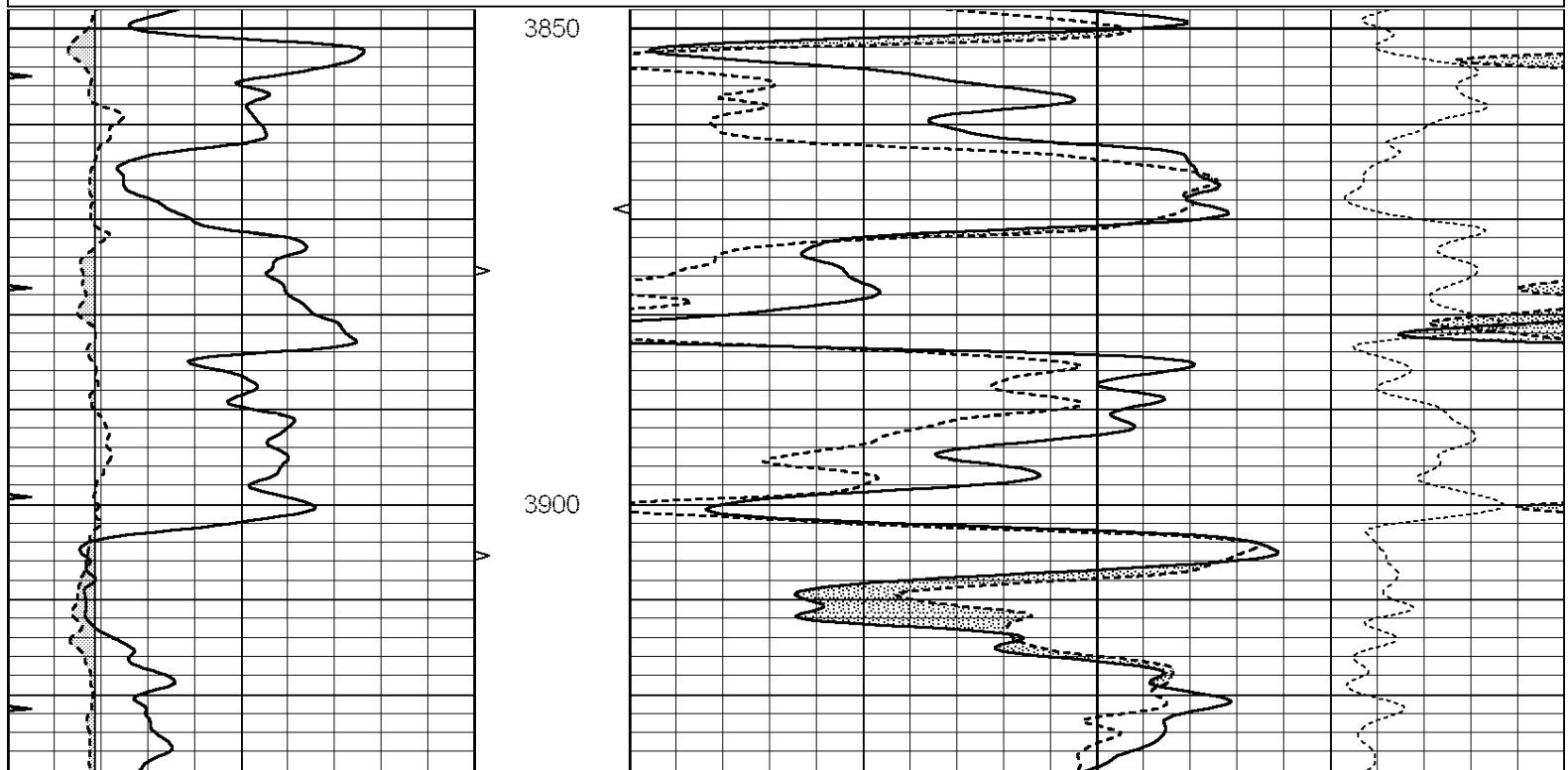


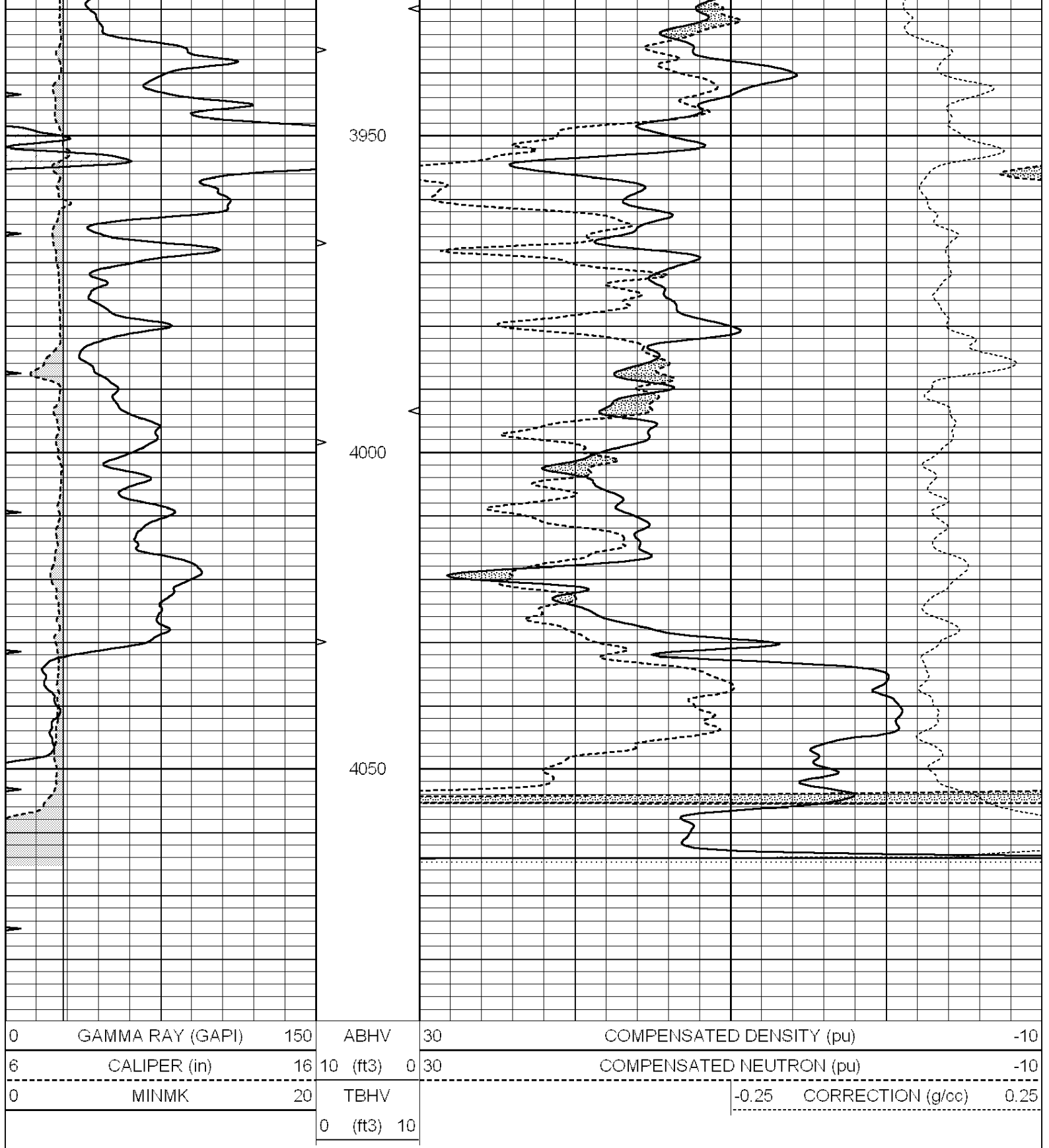
NABORS
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REPEAT SECTION

Database File: 010417ddn.db
Dataset Pathname: pass2.11
Presentation Format: den_neu
Dataset Creation: Wed Feb 27 11:26:33 2013
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: 010417ddn.db
Dataset Pathname: pass3.11
Dataset Creation: Wed Feb 27 10:59:52 2013

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
Surface Cal Performed: Sun Feb 24 07:56:45 2013
Downhole Cal 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	621.923	-7.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	640.000	-21.000
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: 003N				Model: PRB				

Master Calibration					Performed Tue Sep 08 14:14:44 2009			
	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		0.0000	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			

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				

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:	070559	
Tool Model:	OPEN_GR	
Performed:	Sun Feb 17 02:24:26 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.3500	GAPI/cps