



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
LOG

Company	RITCHIE EXPLORATION, INC.		
Well	WISSMAN 30AB #1		
Field	OTIS-ALBERT		
County	BARTON	State	KANSAS
Location:	AP1 # : 15-009-25562-0000 1265' FNL & 675' FWL 55N & 15E OF W/2 - NW SEC 30 TWP 18S RGE 15W		Other Services DIL
Permanent Datum	GROUND LEVEL	Elevation	1919
Log Measured From	KELLY BUSHING 9' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Date	6/17/11		
Run Number	ONE		
Depth Driller	3609		
Depth Logger	3610		
Bottom Logged Interval	3586	2000	
Top Log Interval	2900	1700	
Casing Driller	8 5/8"@929'		
Casing Logger	942'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6,000 PPM	
Density / Viscosity	9.3/54		
pH / Fluid Loss	8.0/9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.50@92F		
Rmt @ Meas. Temp	.525@80F		
Rmc @ Meas. Temp	.840@80F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.509@110F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	110F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF GRONEWEG		
Witnessed By	DAVE WILLIAMS		

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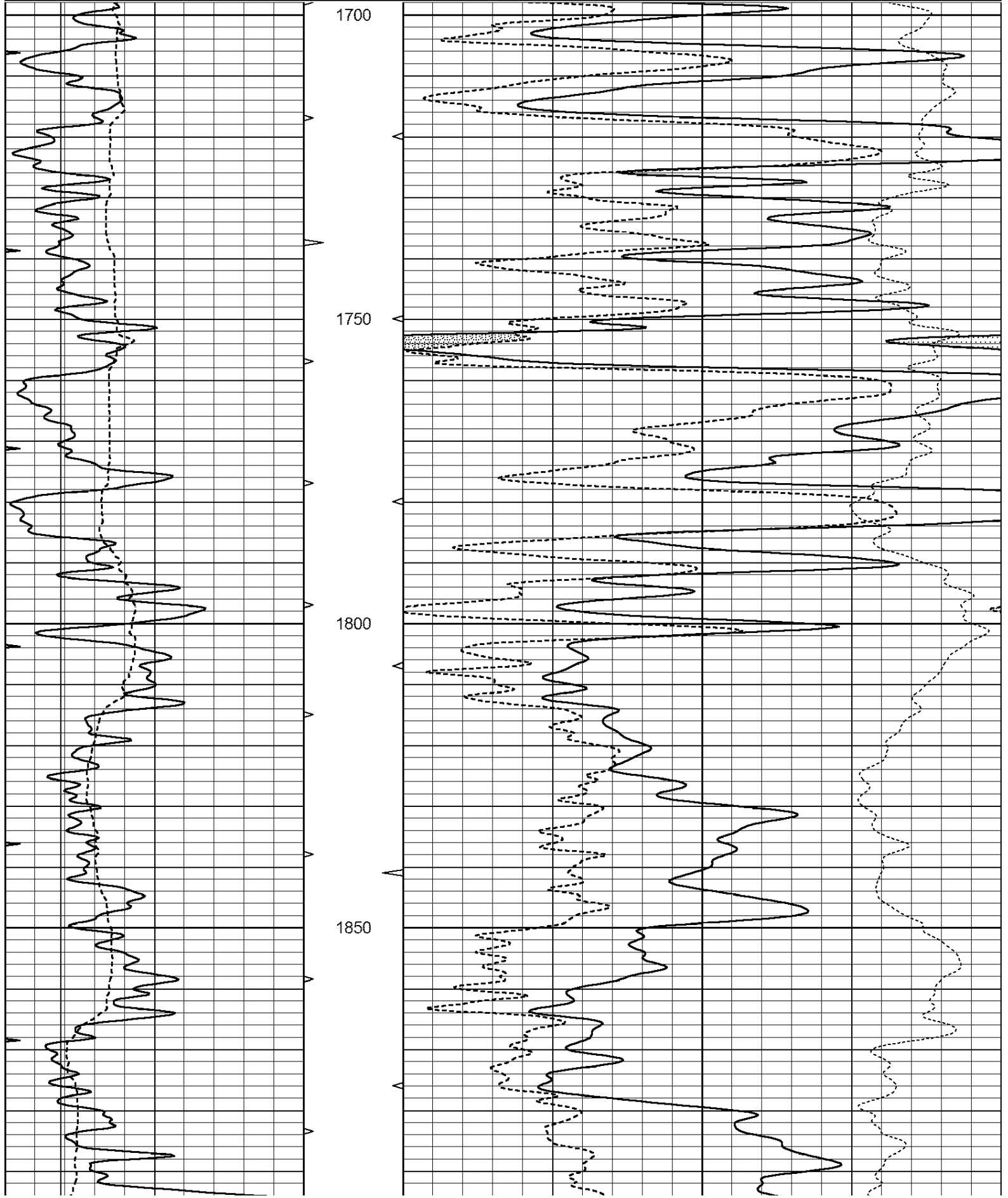
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

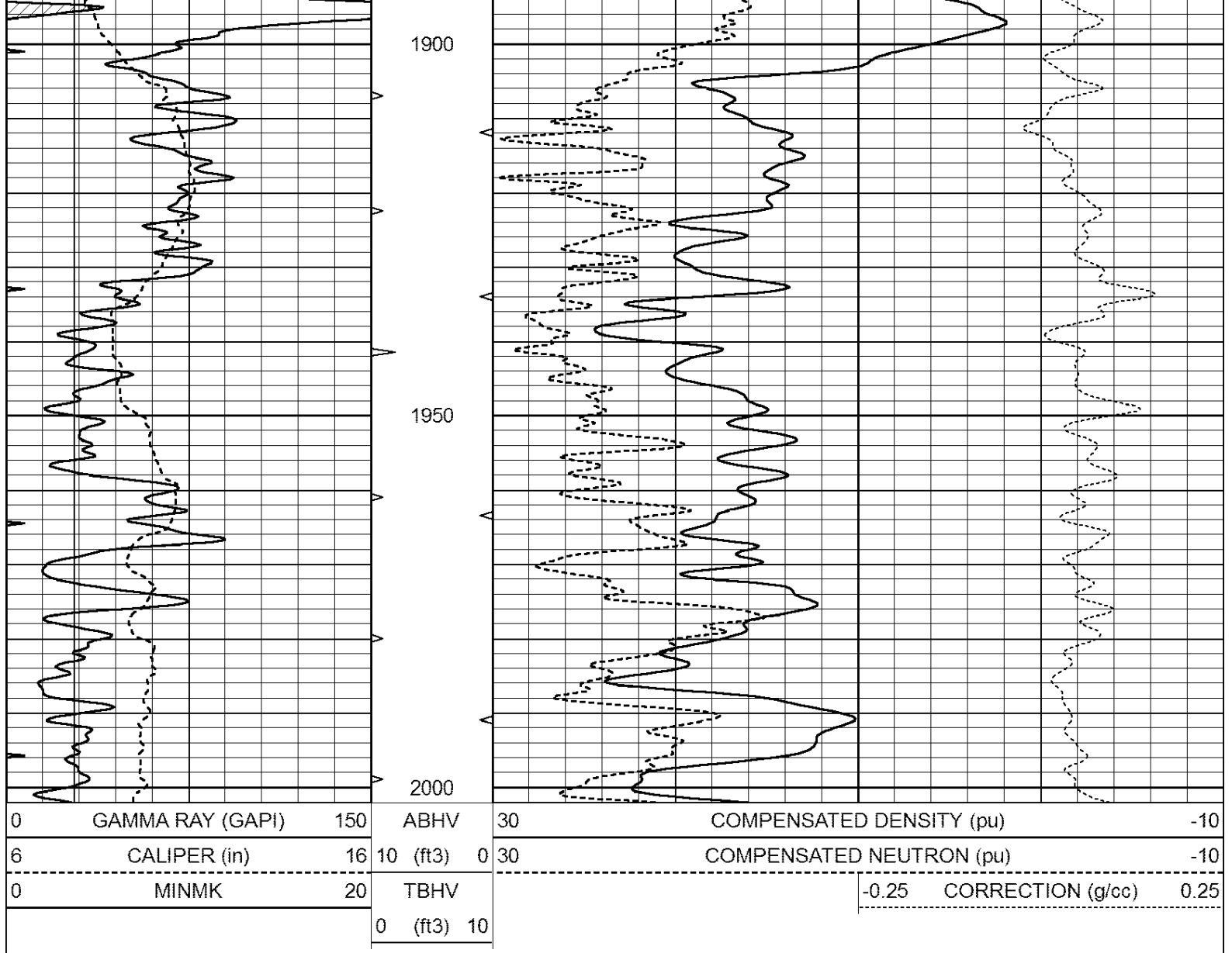
Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
ALBERT, KS - 1 MILE WEST TO BARTON/RUSH COUNTY LINE - NORTH ACROSS RR TRACKS
EAST INTO

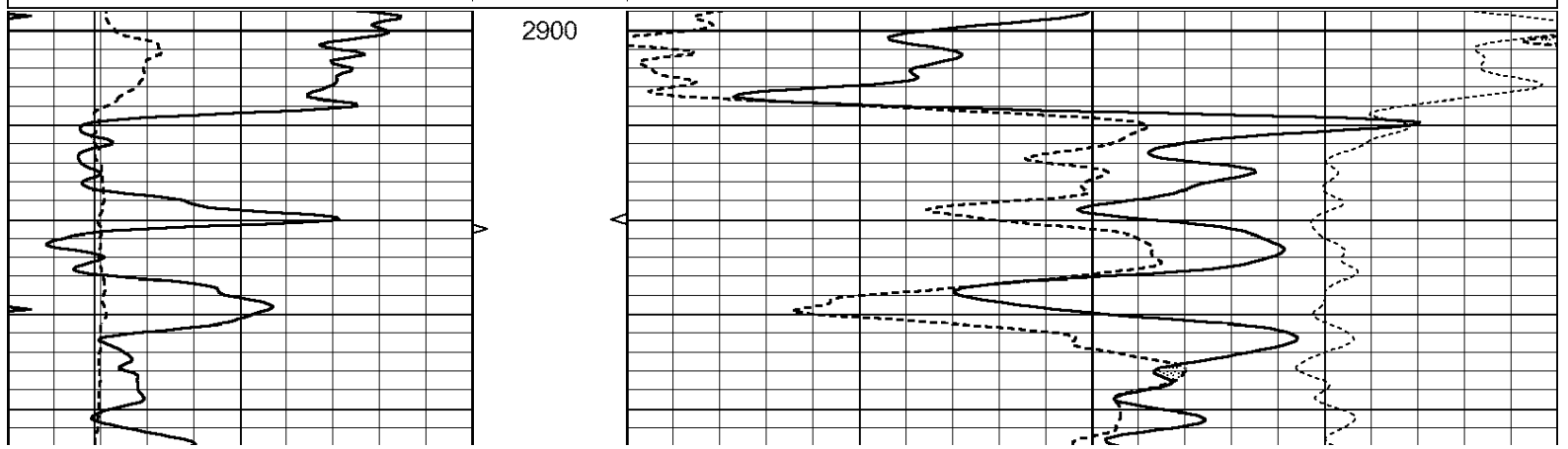
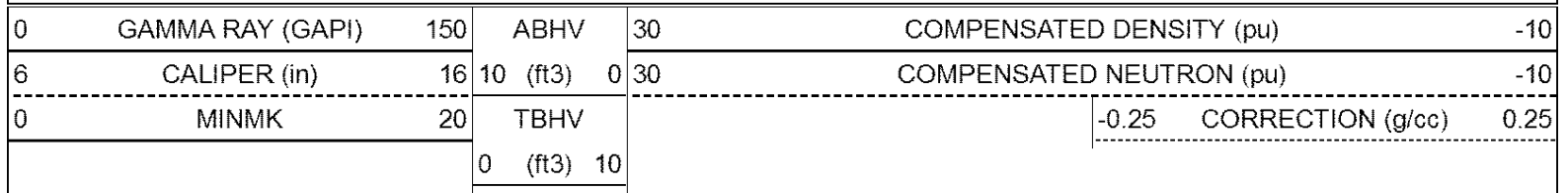
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Presentation Format: den_neu
Dataset Creation: Fri Jun 17 22:00:18 2011 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

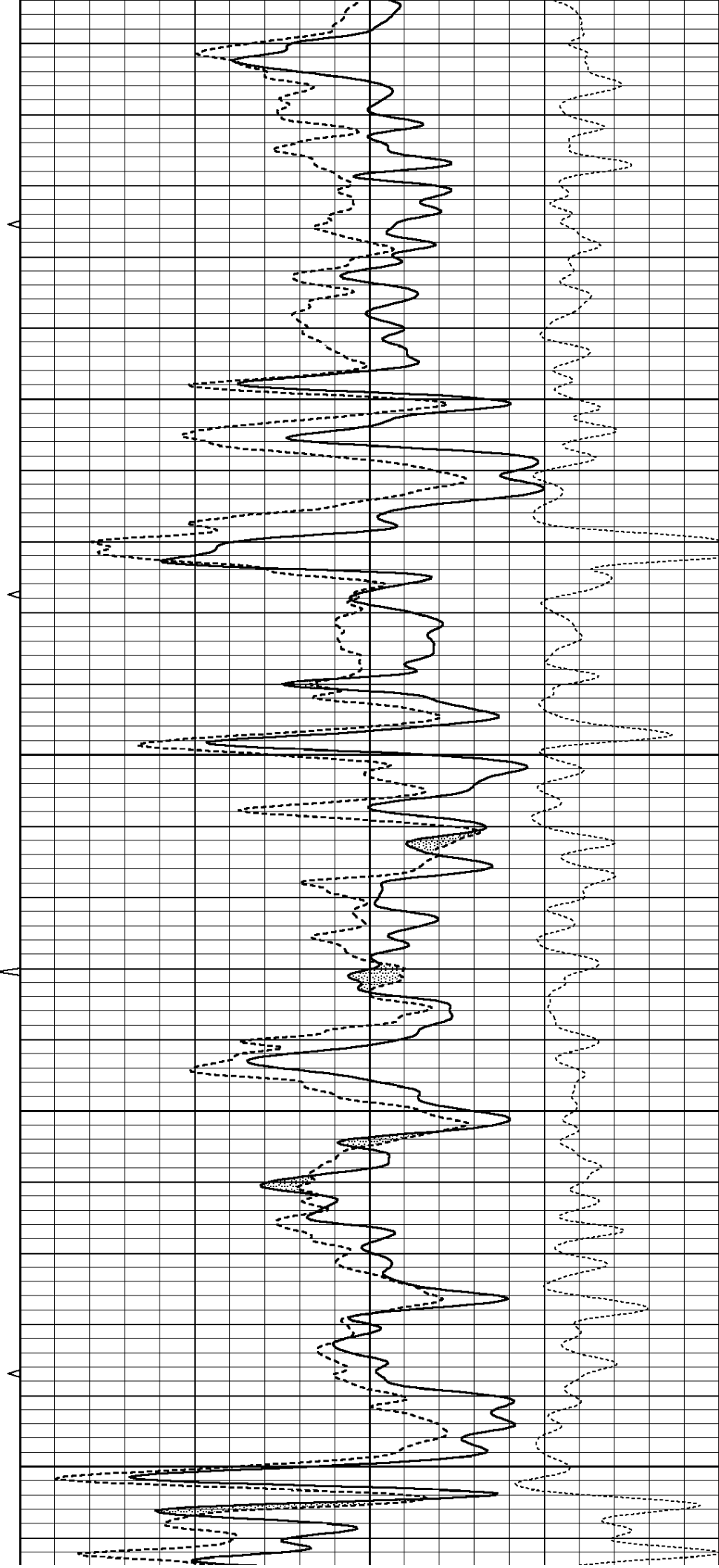
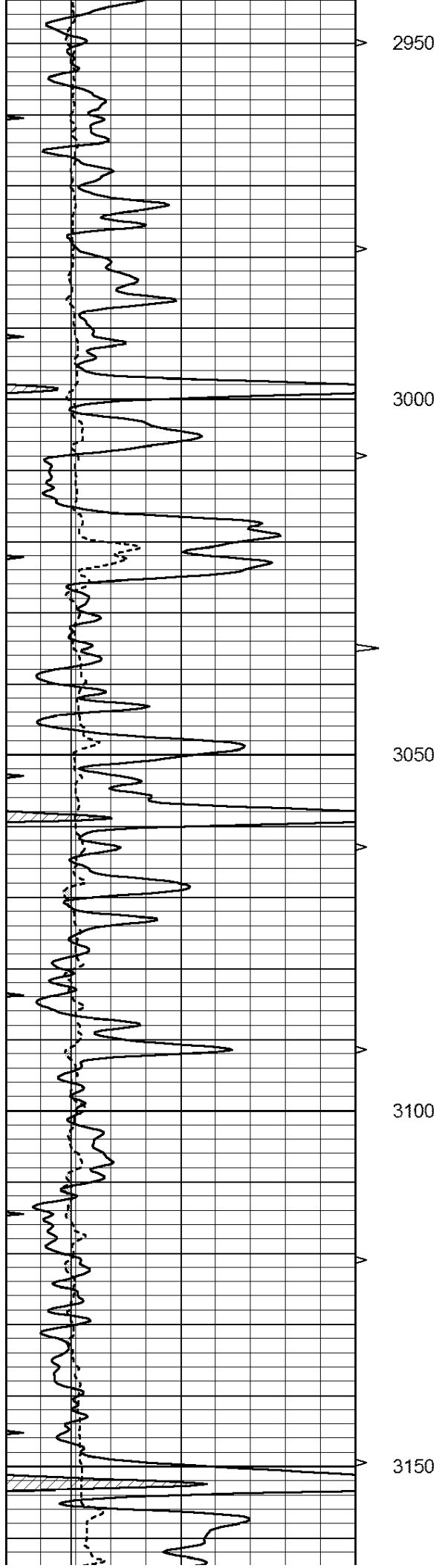
Charted by:		Depth in Feet scaled 1:2.10			
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu) -10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu) -10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10		

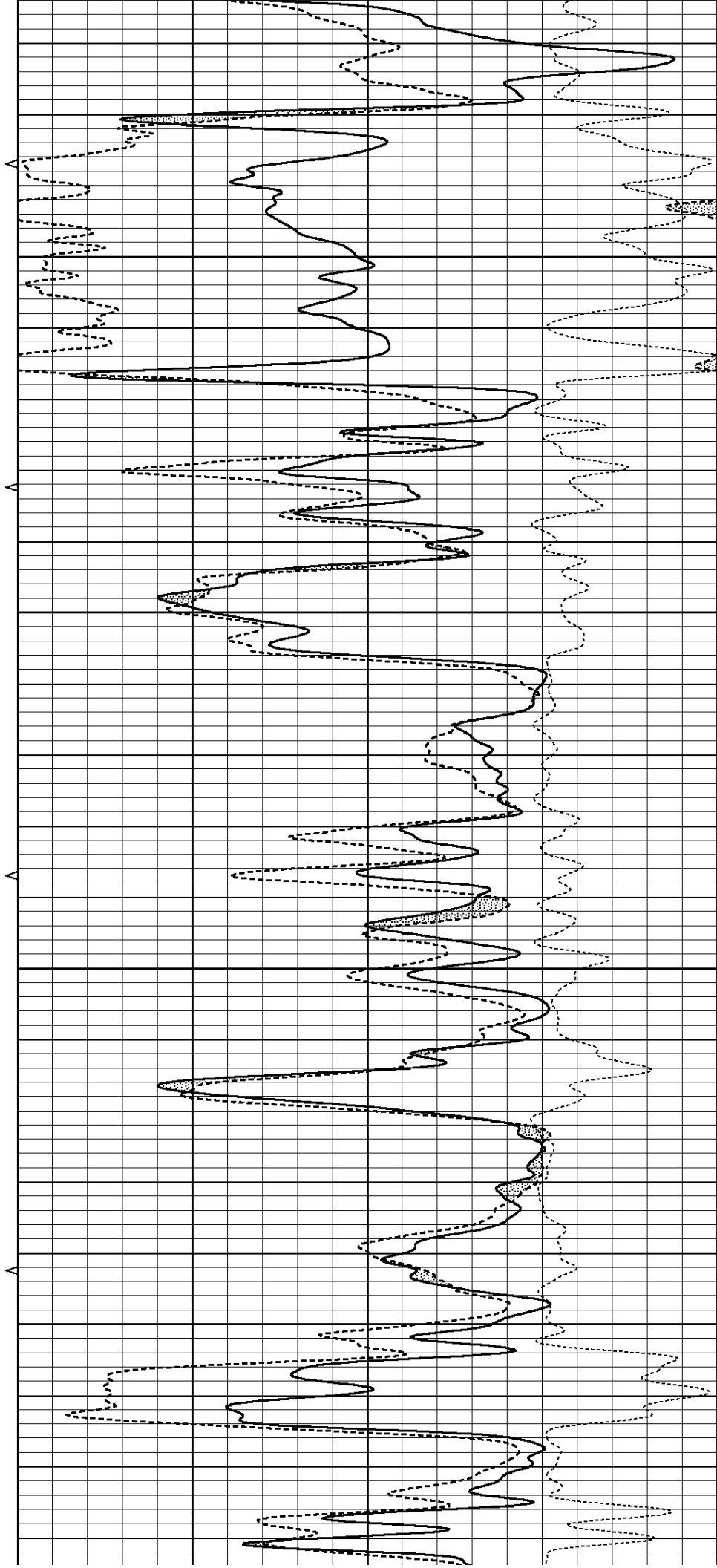
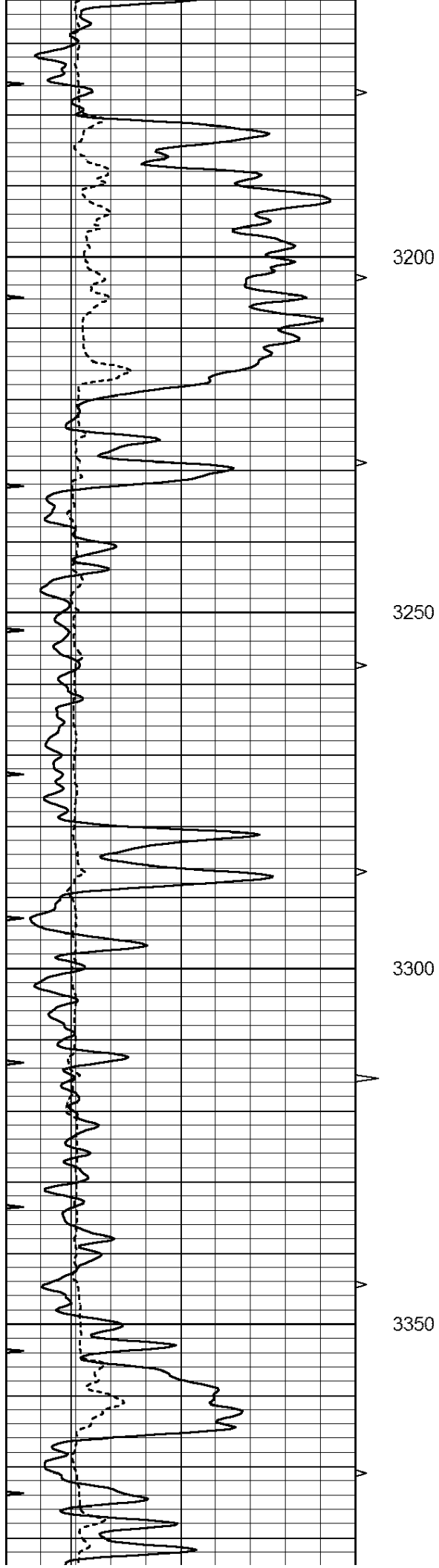


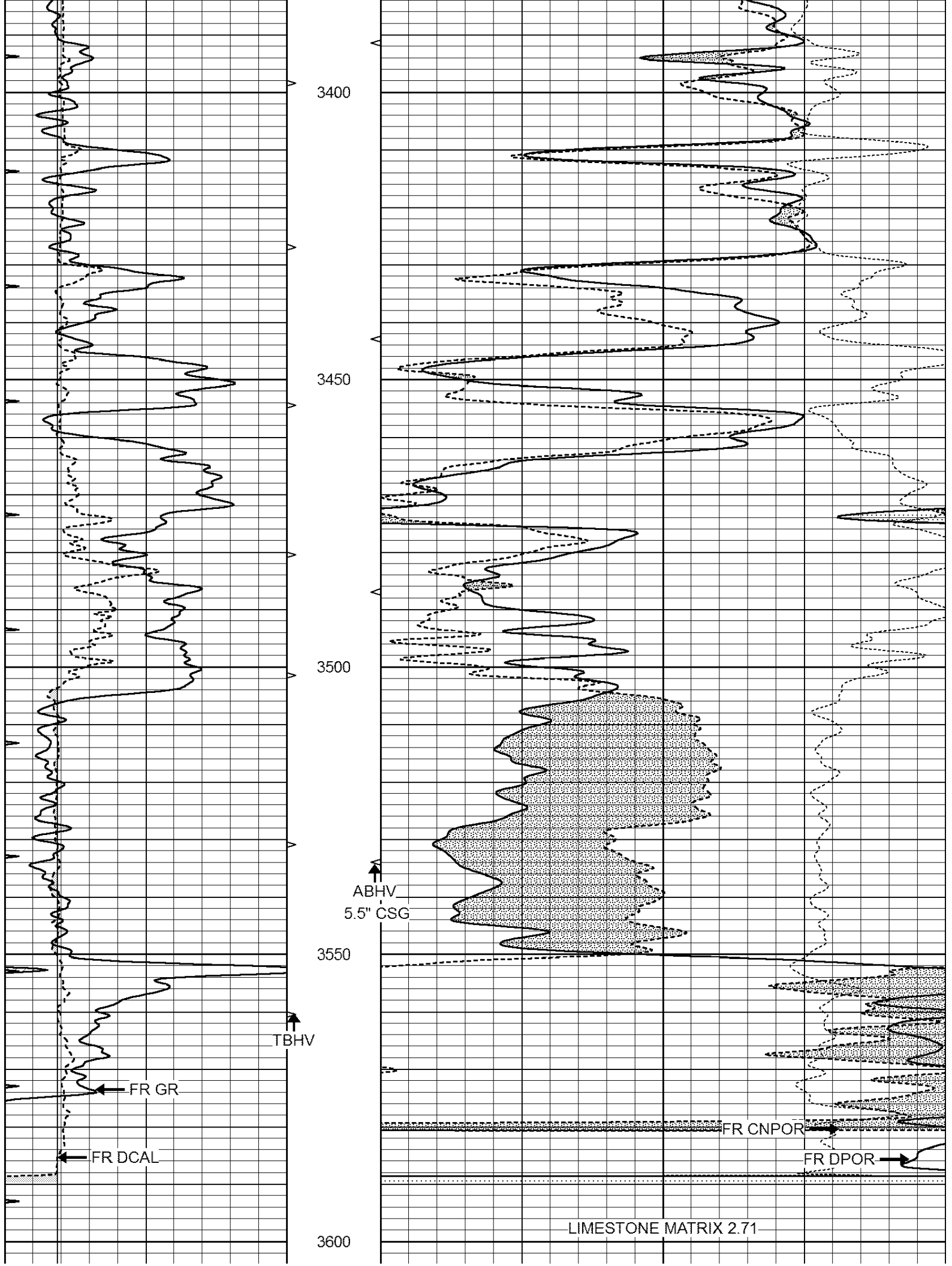


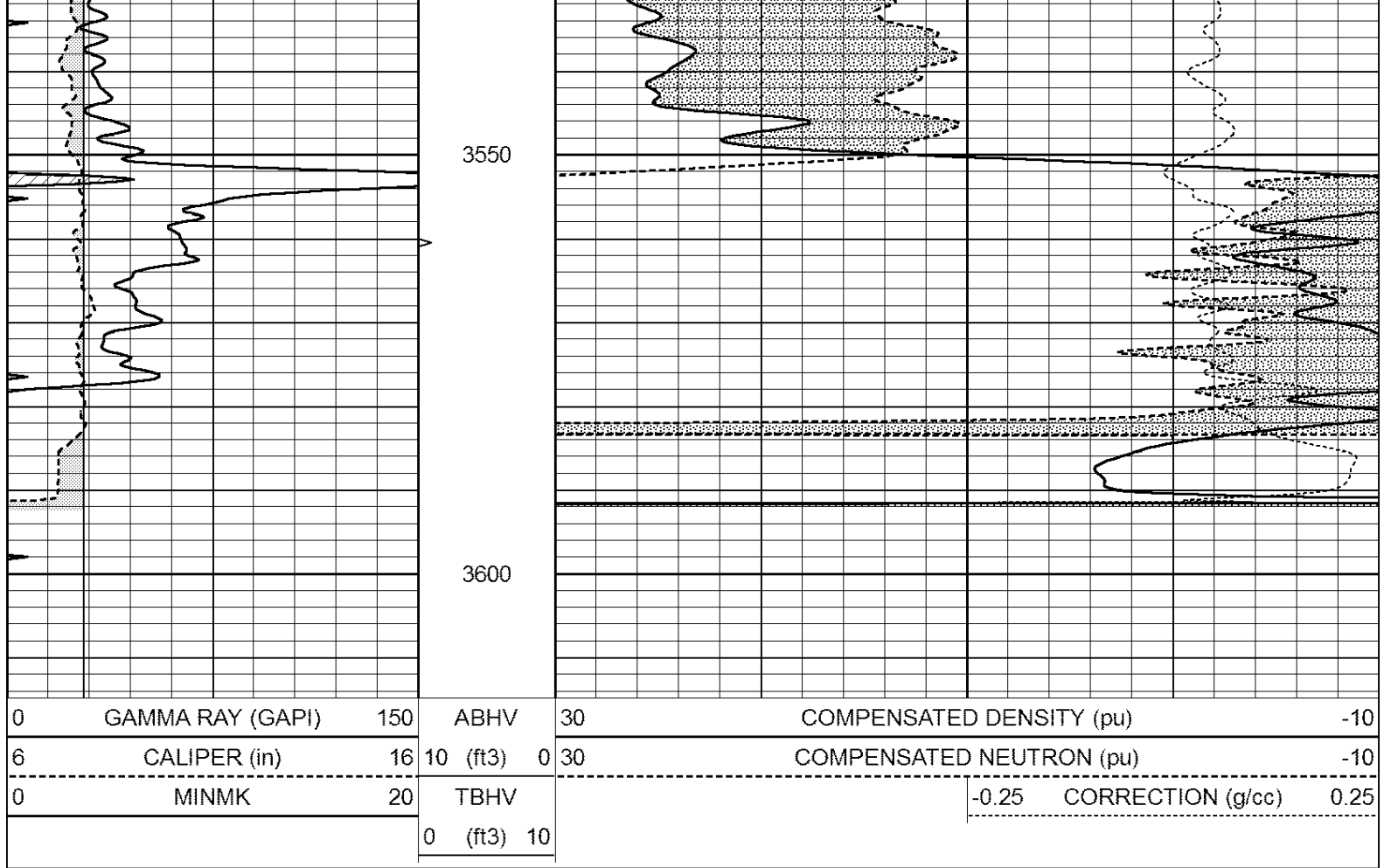
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Calibration Report								
Database File:	006974ddn.db							
Dataset Pathname:	pass3.1							
Dataset Creation:	Fri Jun 17 22:00:18 2011 by Calc Open-Cased 110302							
Dual Induction Calibration Report								
Serial-Model: Performed:				DIL6-GEAR Thu Jun 16 08:53:06 2011				
Readings			References				Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.644	V	0.000	400.000	mmho/m	660.000	5.000
Medium	0.020	0.738	V	0.000	462.500	mmho/m	720.000	-13.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	1.000	V	0.000	1.000	mmho/m	1.000	0.000
Medium	0.000	1.000	V	0.000	1.000	mmho/m	1.000	0.000
Litho Density Calibration Report								
Serial: 004N			Model: PRB					
Performed Tue Sep 08 13:49:55 2009								

Long Space	0.0	6033.1	1017.0	9013.1	cps
Short Space	1.2	1671.8	1138.1	1813.0	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.5	Rib Slope	: 1.017	Density/Spine Ratio	: 0.573
Spine Angle	: 75.5	Spine Slope	: 3.865	Spine Intercept	: -19.7
Caliper					
Low Ref	Readings 2.8	Reference 7.8			
High Ref	4.6	15.0			
	Gain: 3.9		Offset: -3.2		
Compensated Neutron Calibration Report					
		Serial Number:	NEU_4I		
		Tool Model:	G		
CALIBRATION					
Detector	Readings	Target	Normalization		
Short Space	996.00 cps	1000.00 cps	1.0000		
Long Space	977.00 cps	1000.00 cps	1.0000		
Gamma Ray Calibration Report					
Serial Number:	GR4				
Tool Model:	OPEN				
Performed:	Thu Jun 16 10:21:02 2011				
Calibrator Value:	200.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	189.0	cps			
Sensitivity:	3.3000	GAPI/cps			