



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	LD DRILLING	Company	LD DRILLING
Well	BLANKENSHIP #3-2	Well	BLANKENSHIP #3-2
Field	OTIS-ALBERT	Field	OTIS-ALBERT
County	BARTON	County	BARTON
State	KANSAS	State	KANSAS
Location:	API # : 15-009-25961-00-00 1320' FSL & 1320' FEL SE/4	Other Services DIL/MEL	
Permanent Datum	GROUND LEVEL	Elevation	
Log Measured From	KELLY BUSHING 5' A.G.L.	K.B. 1957 D.F. 1955 G.L. 1952	
Drilling Measured From	KELLY BUSHING		
Date	10/3/14		
Run Number	ONE		
Depth Driller	3660		
Depth Logger	3658		
Bottom Logged Interval	3634		
Top Log Interval	3100		
Casing Driller	8 5/8" @ 954		
Casing Logger	952		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8,000 PPM	
Density / Viscosity	9.2/65		
pH / Fluid Loss	10.5/9.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.50 @ 74F		
Rmf @ Meas. Temp	0.38 @ 74F		
Rmc @ Meas. Temp	0.60 @ 74F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.33 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	113F		
Equipment Number	3802		
Location	HAYS, KS.		
Recorded By	JEFF GRONEWEG		
Witnessed By	KURT TALBOTT		

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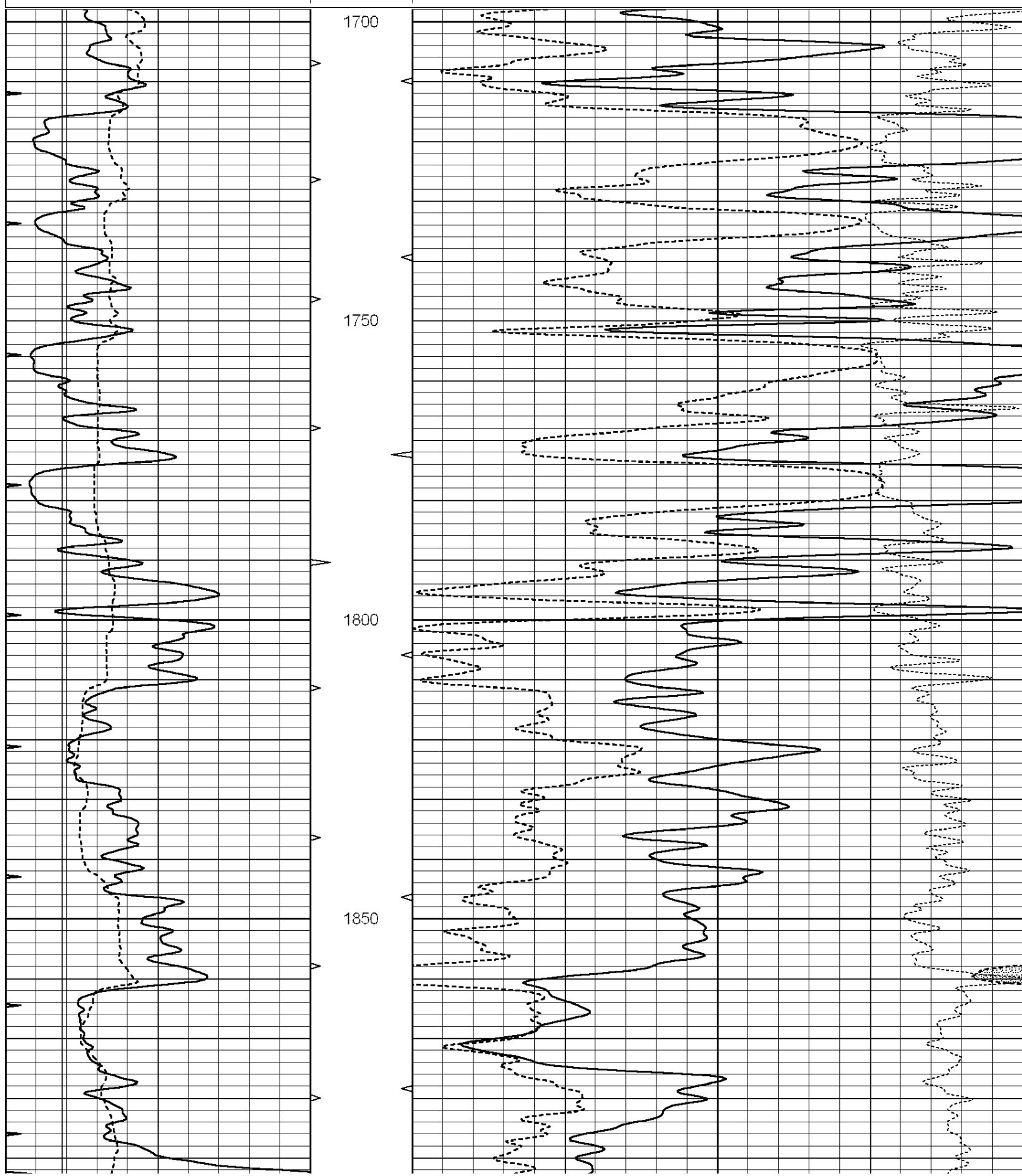
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

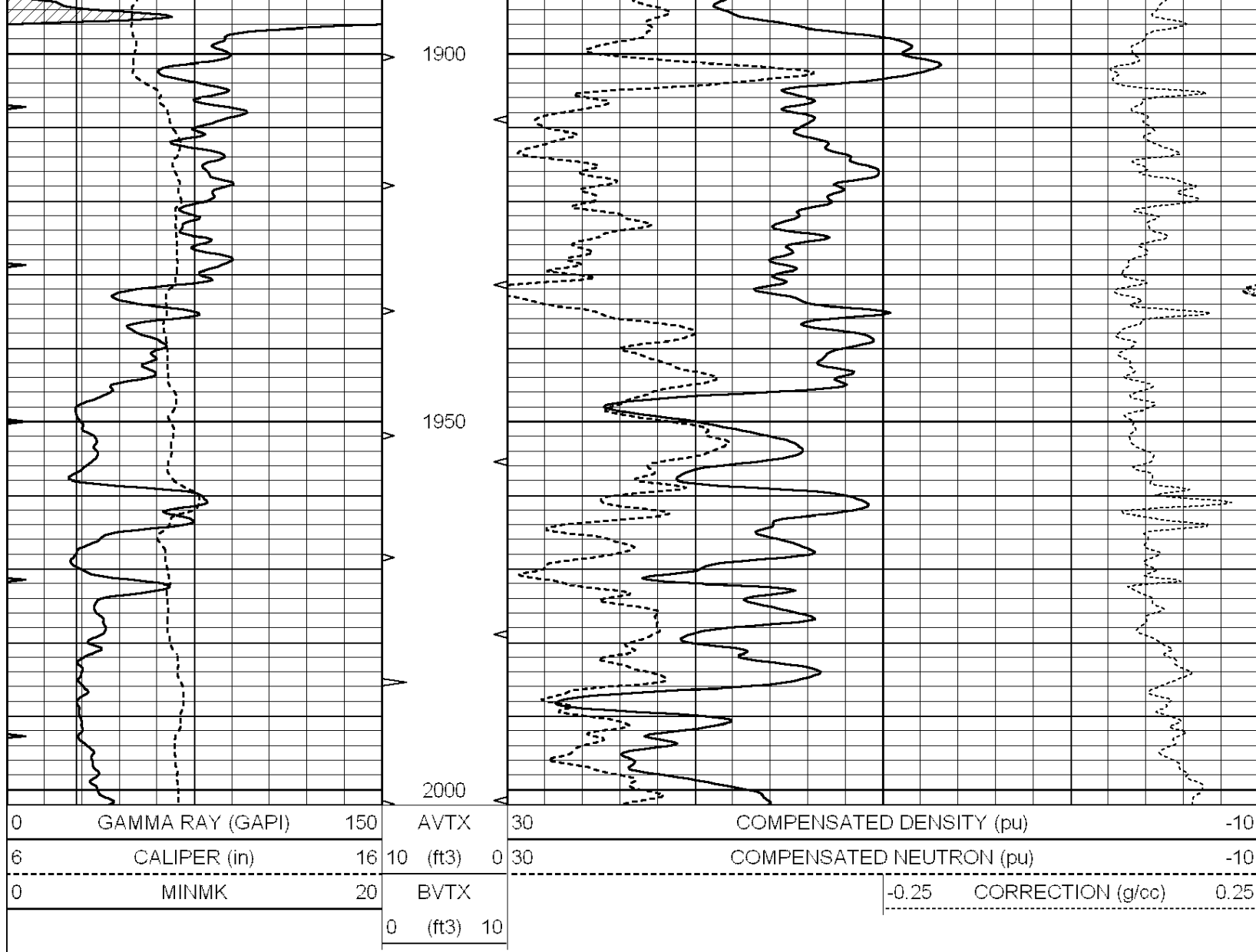
Comments

THANK YOU FOR USING NABORS COMPLETION & PRODUCTION SVCS. (785) 628-6395

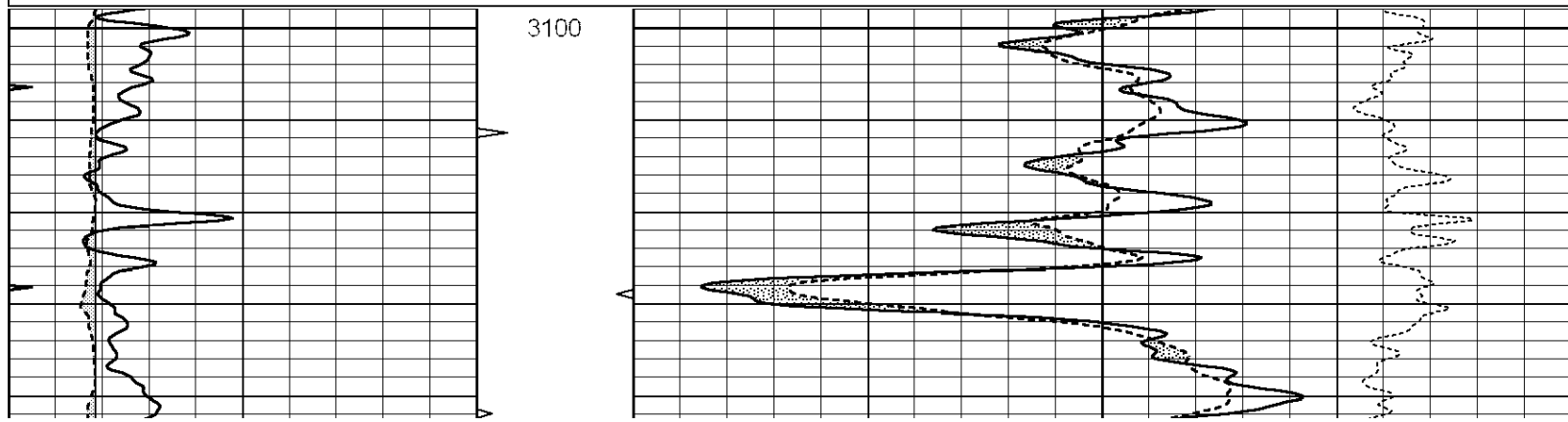
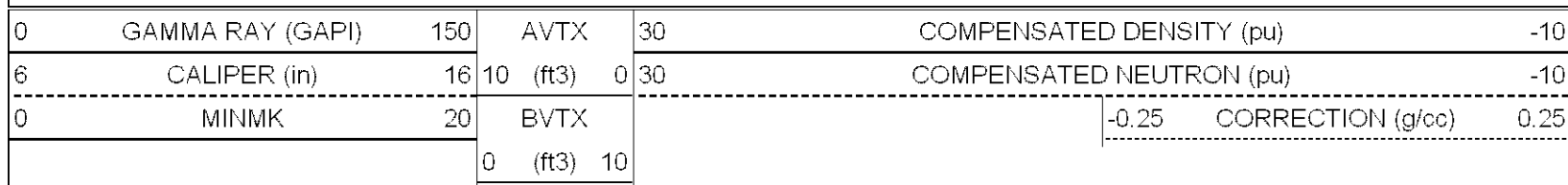
DIRECTIONS: HEIZER, KS - 1 MILE WEST TO RD NW90 - 1 3/4 MILES SOUTH
WEST INTO

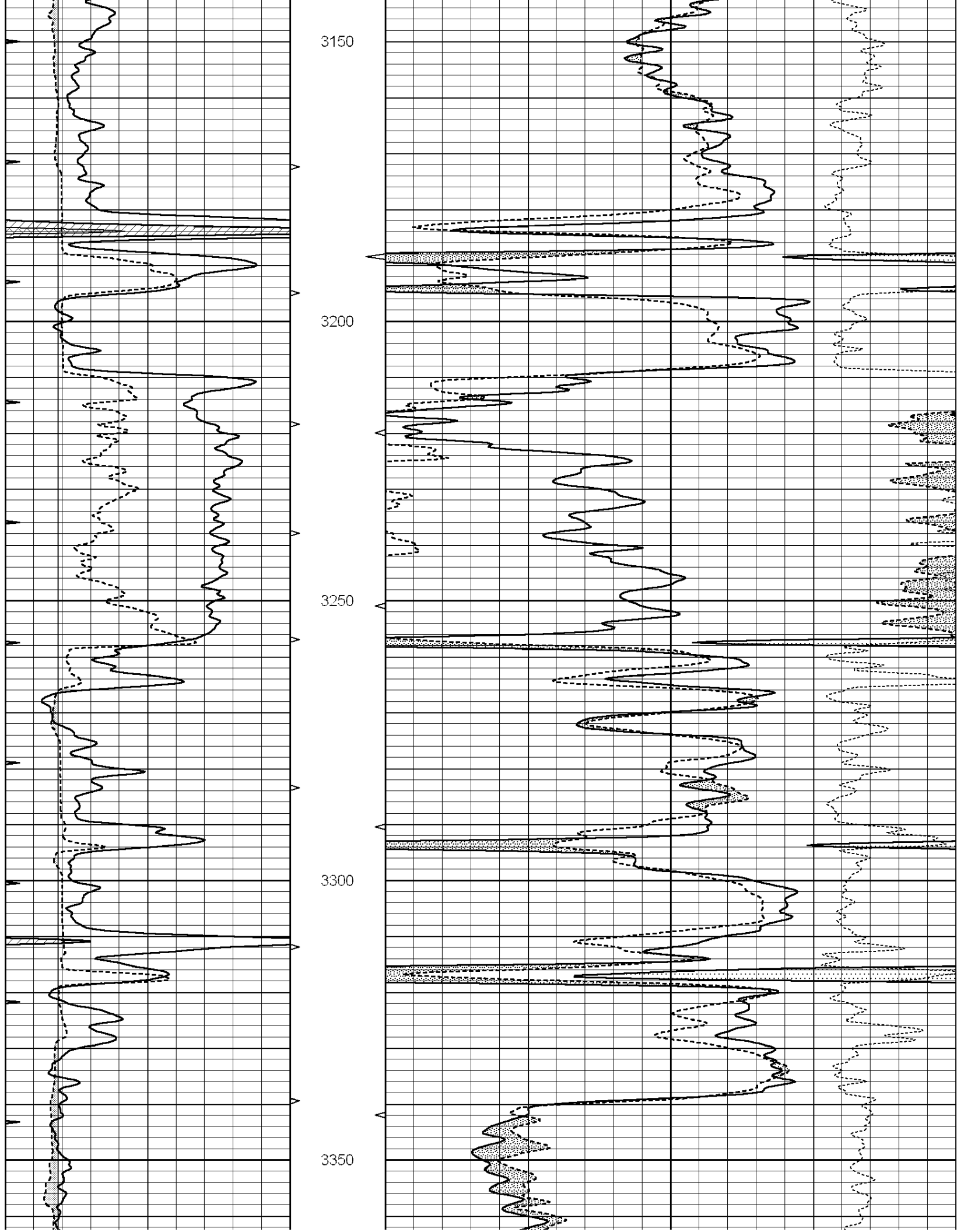
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		

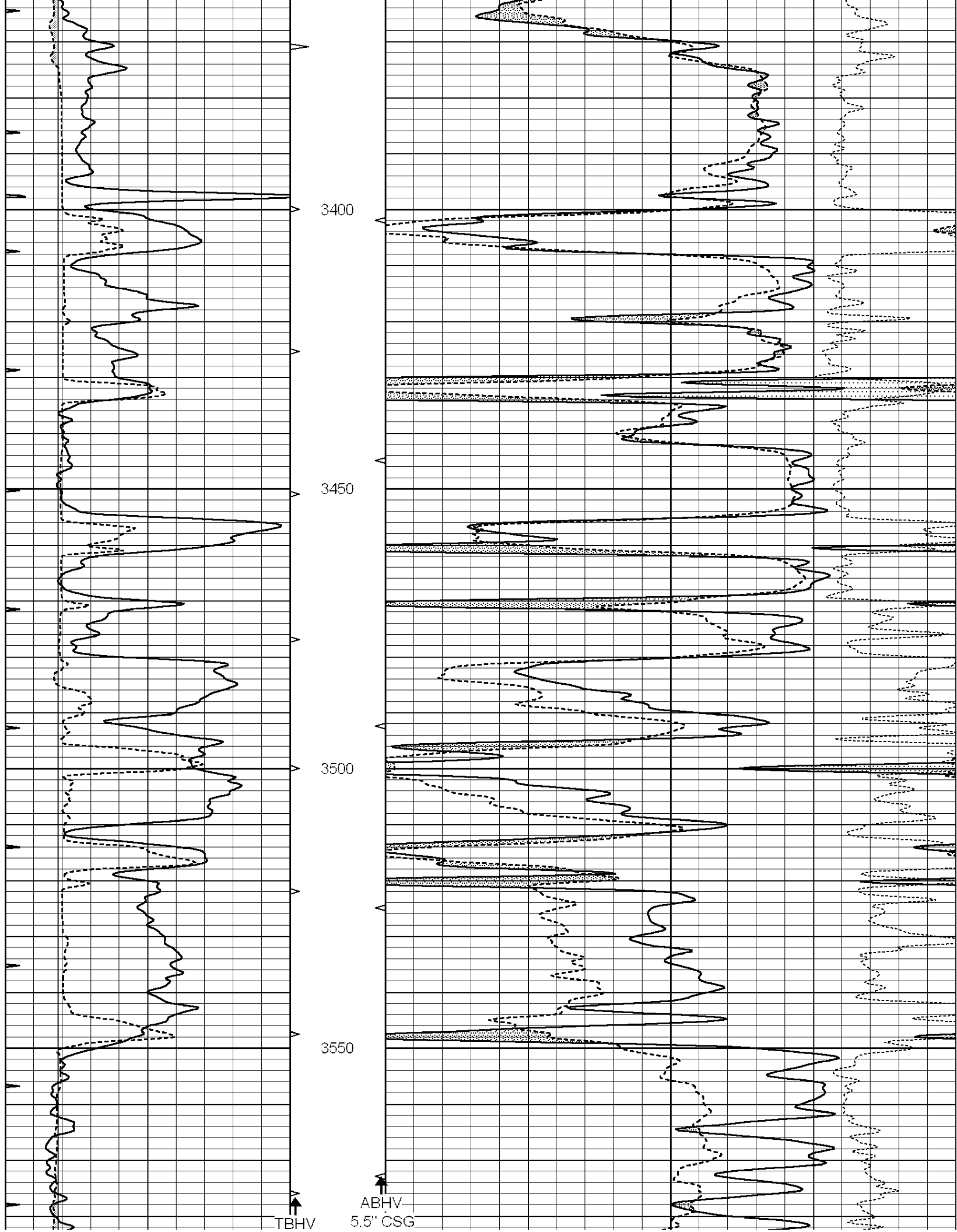


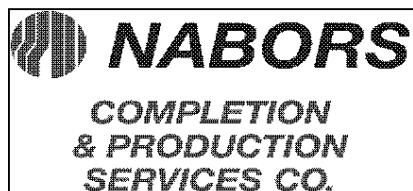
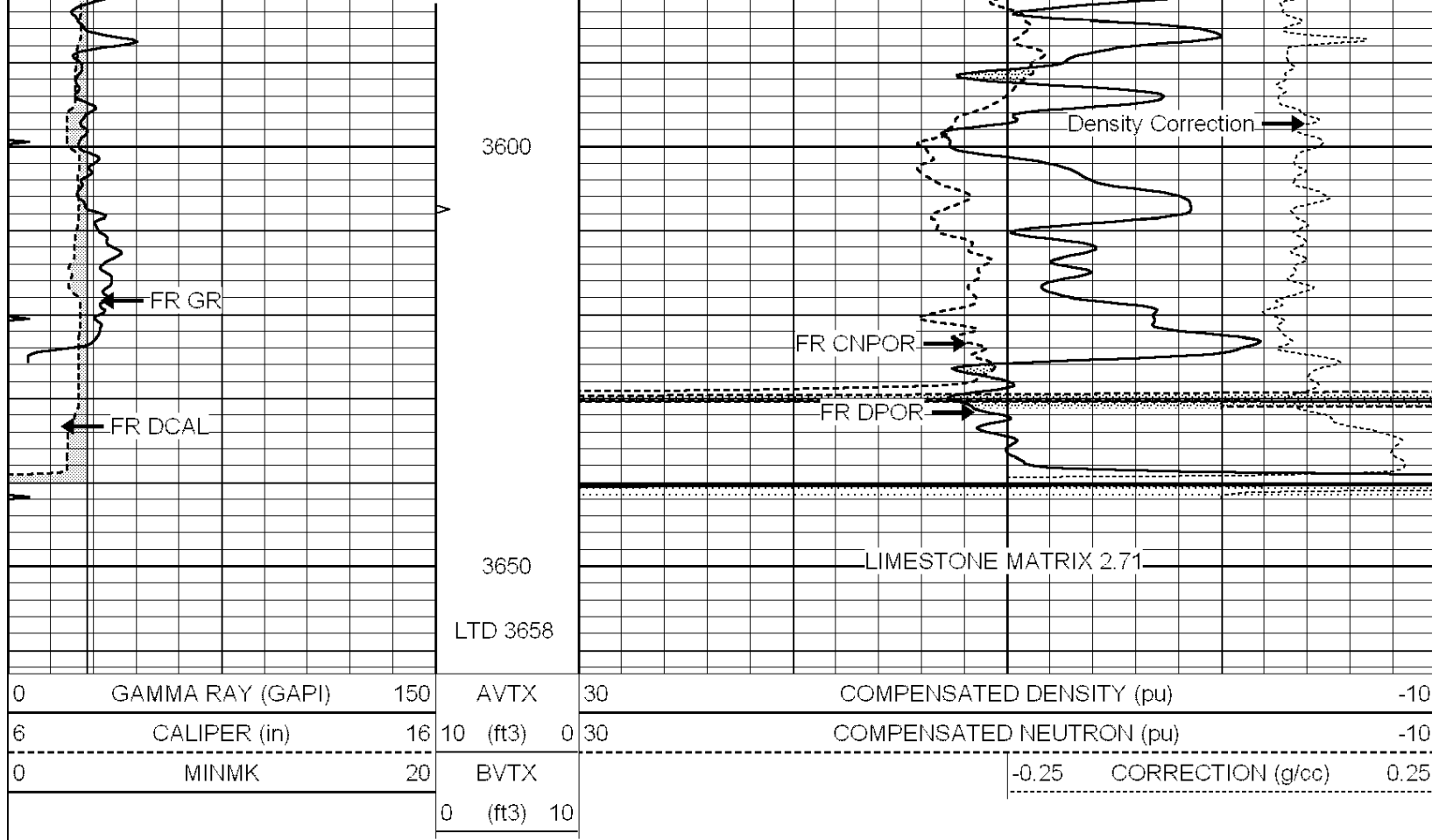


Database File: 26230ddn.db
 Dataset Pathname: pass3.3
 Presentation Format: _den_neu
 Dataset Creation: Fri Oct 03 02:57:21 2014 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240



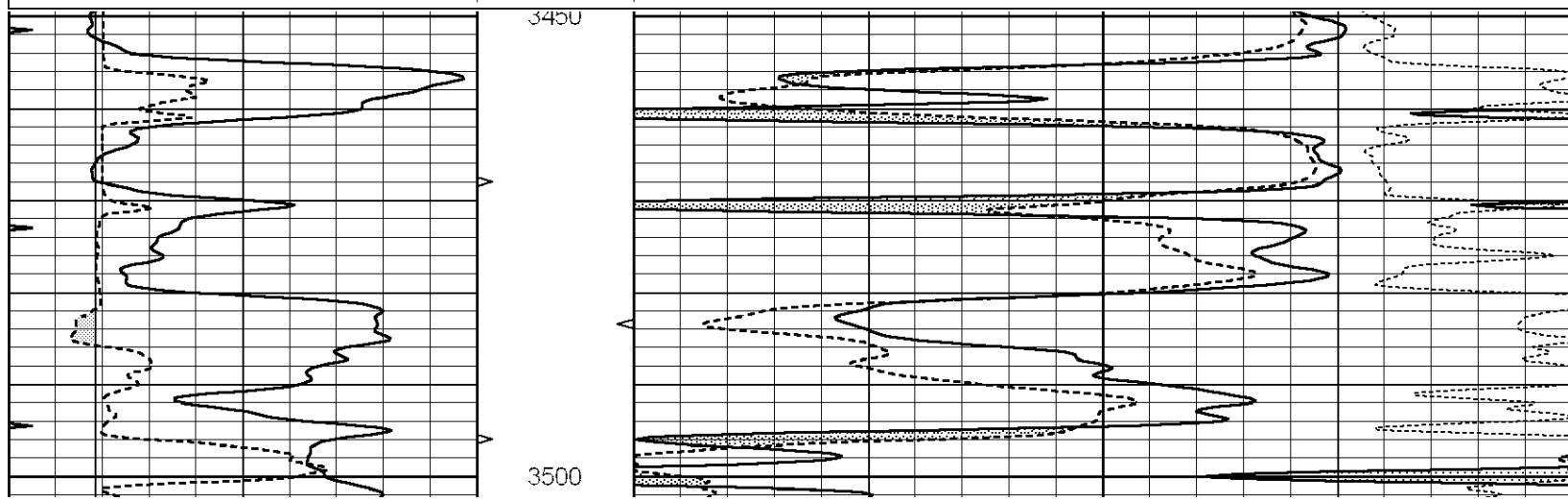
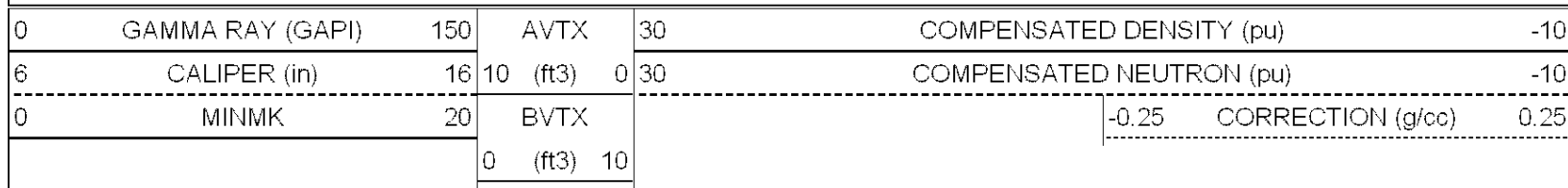


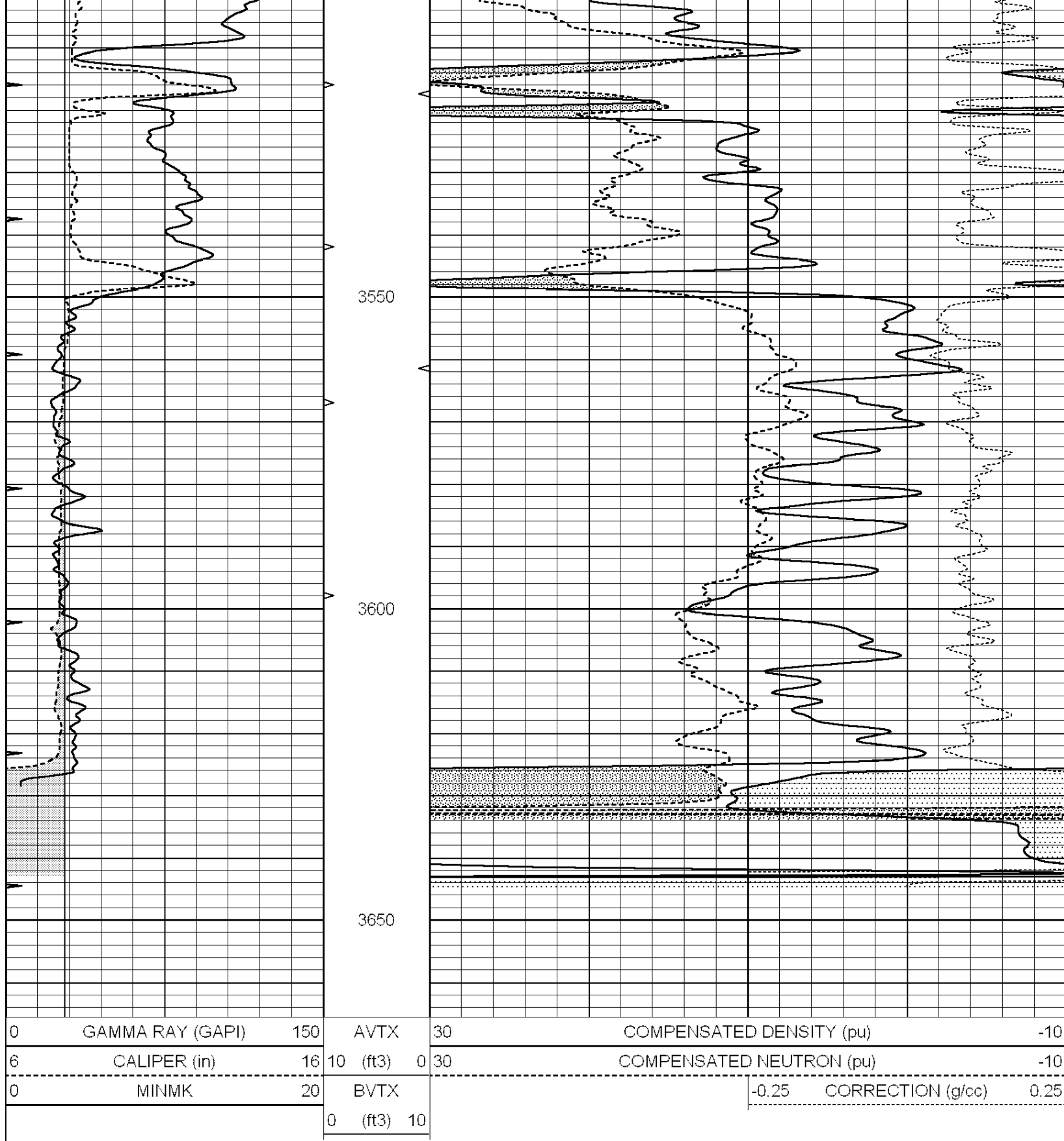




REPEAT SECTION

Database File: 26230ddn.db
 Dataset Pathname: pass2.2
 Presentation Format: _den_neu
 Dataset Creation: Fri Oct 03 00:59:10 2014 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 26230ddn.db
Dataset Pathname: pass3.3
Dataset Creation: Fri Oct 03 02:57:21 2014 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
Surface Cal Performed: Tue Sep 02 02:19:29 2014

Surface Calibration								
Readings			References			Results		
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.593	0.593	V	0.000	400.000	mmho/m	620.000	-7.000
Medium	0.668	0.668	V	0.000	464.000	mmho/m	630.000	-44.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.030	0.644	V	0.000	400.000	mmho/m	651.380	-19.739
Medium	0.027	0.815	V	0.000	464.000	mmho/m	588.755	-16.048

Downhole Calibration								
Readings			References			Results		
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	3353890.000	-304691.000	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	16235500.000	-3735510.000	mmho/m	1.000	0.000
LL3		2.500	V		1400.000	Ohm-m		
		0.022	V		20.000	Ohm-m		
		-7.278	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		0.000	Ohm-m		1400.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		4000.000	mmho-m		

Compensated Density Calibration Report

Serial-Model:	GEAR5-GEARHART
Source / Verifier:	147 / 147
Master Calibration Performed:	Tue Sep 02 02:18:22 2014

Master Calibration						
	Density			Far Detector		Near Detector
Magnesium	1.710	g/cc		943.83	576.01	cps
Aluminum	2.600	g/cc		212.01	399.19	cps
Spine Angle = 76.20			Density/Spine Ratio = 0.579			
	Size			Reading		
Small Ring	8.00	in		1.77	V	
Large Ring	14.00	in		2.90	V	

Compensated Neutron Calibration Report

Serial Number:	080620
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:	46001		
Tool Model:	Probe1		
Performed:	Tue Sep 02 02:32:49 2014		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.2600	GAPI/cps	