



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY / NEUTRON LOG

Company	ANDERSON ENERGY, INC.		
Well	GRABBE #2		
Field	POOL EXTENSION		
County	ELLIS	State	KANSAS
Location:	API # : 15-051-26597-00-00		Other Services
	2118' FNL & 921' FWL		DIL/MEL
	NW - SE - SW - NW		
	SEC 19 TWP 15S RGE 18W		
Permanent Datum	GROUND LEVEL	Elevation	1991
Log Measured From	KELLY BUSHING 9' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Elevation	K.B. 2000		
	D.F. 1998		
	G.L. 1991		
Date	1-17-14		
Run Number	ONE		
Depth Driller	3780		
Depth Logger	3782		
Bottom Logged Interval	3758		
Top Log Interval	2800		
Casing Driller	8 5/8 @ 1186'		
Casing Logger	1185'		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3500 PPM	
Density / Viscosity	9.0 / 57		
pH / Fluid Loss	10.5 / 5.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.80 @ 36F		
Rmf @ Meas. Temp	0.60 @ 36F		
Rmc @ Meas. Temp	0.96 @ 36F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.25 @ 114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	114F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	JEFF GRONEWEG		
Witnessed By	ROGER MARTIN		

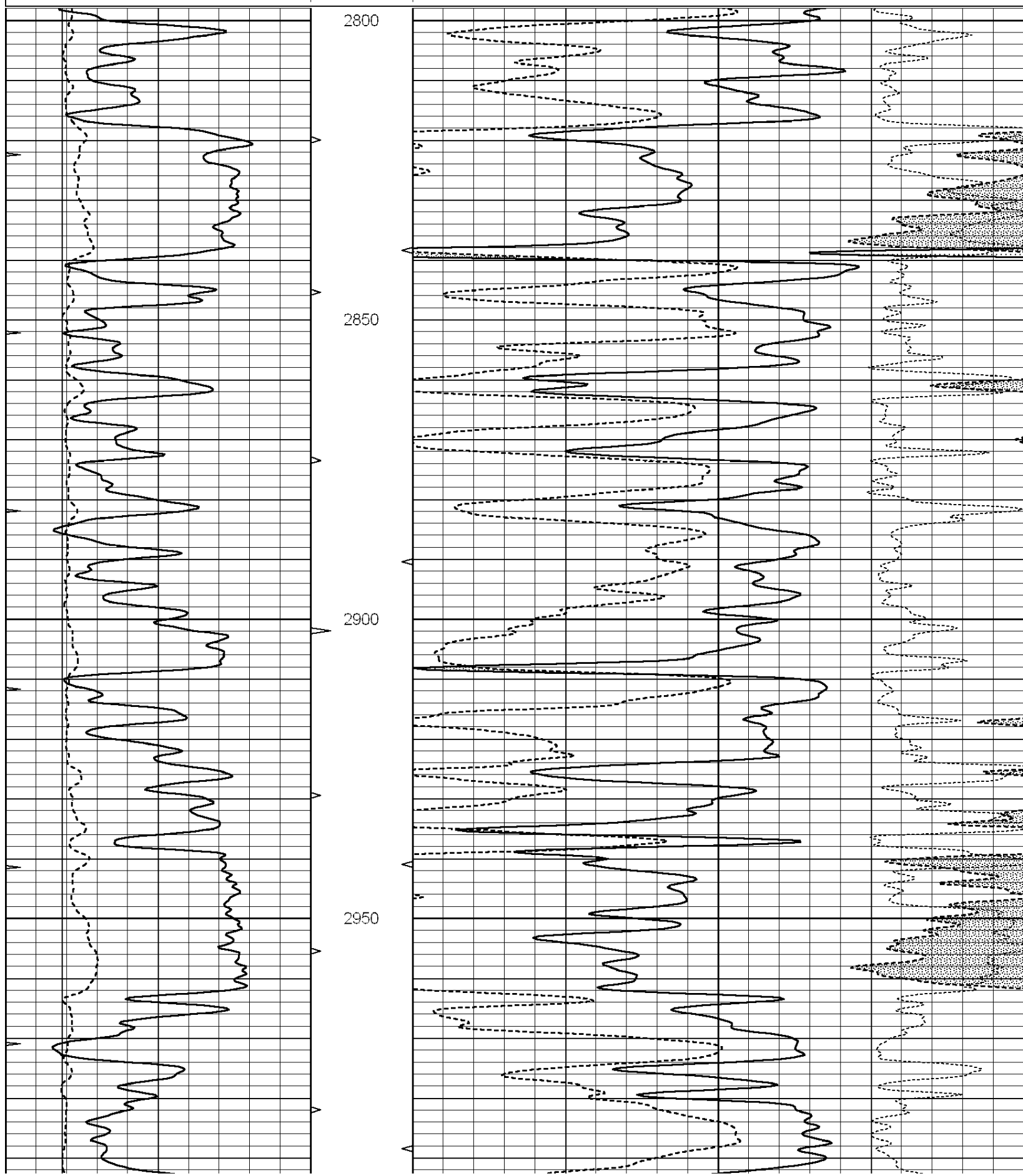
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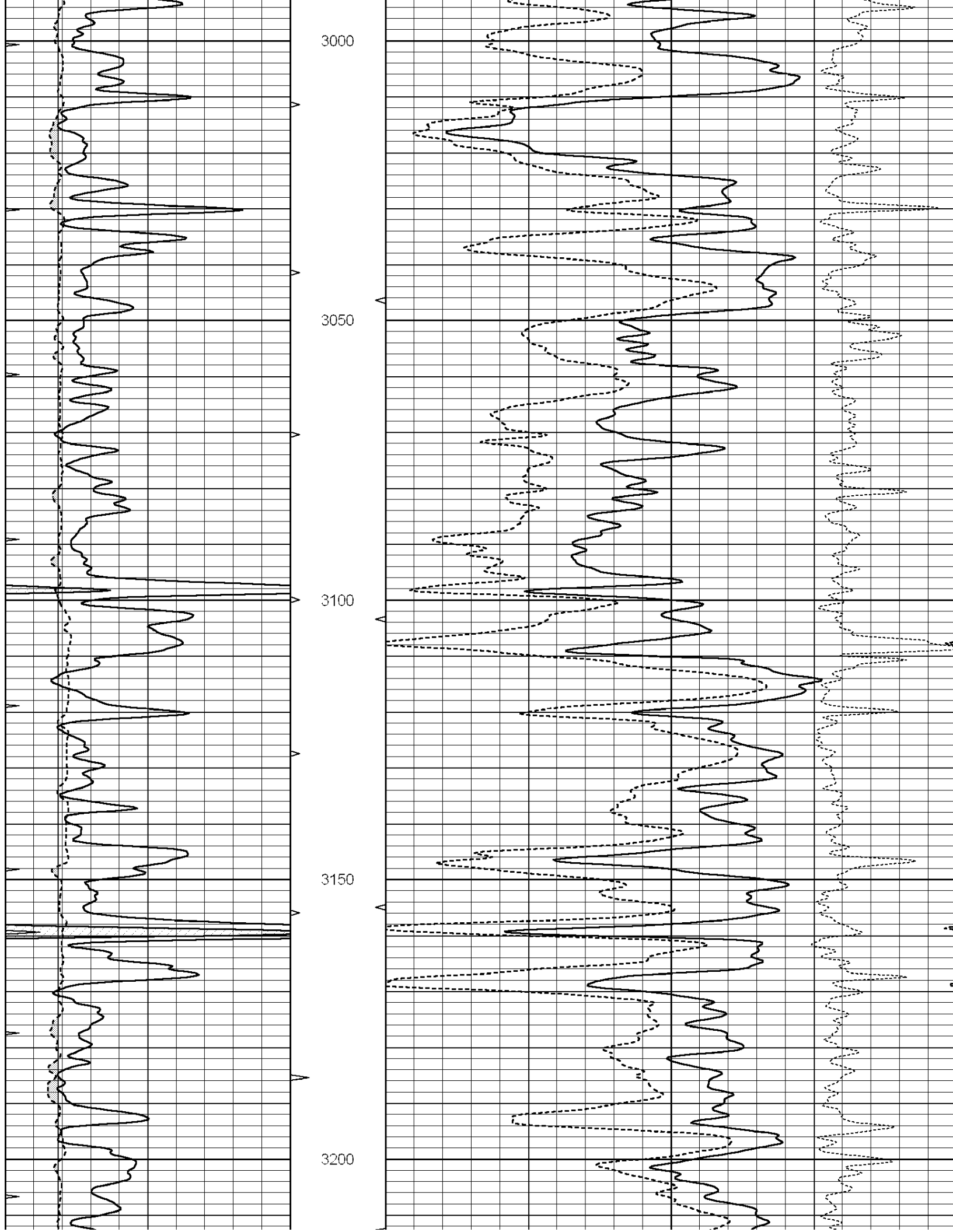
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

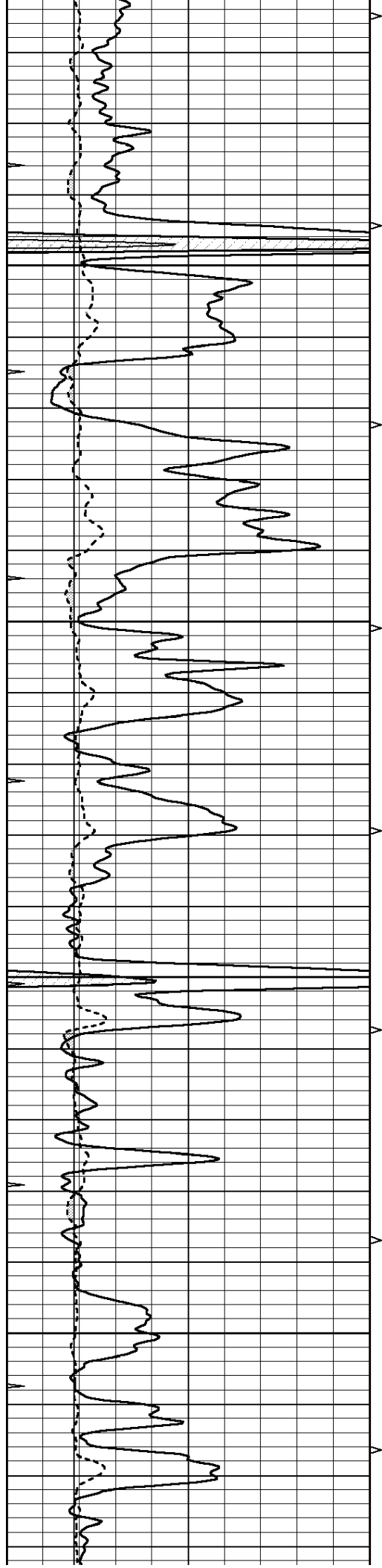
Comments

NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: HAYS, KS - 9 MILES SOUTH TO SMOKEY HILL RIVER RD
3 MILES WEST - 1/2 MILE NORTH - EAST INTO

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			





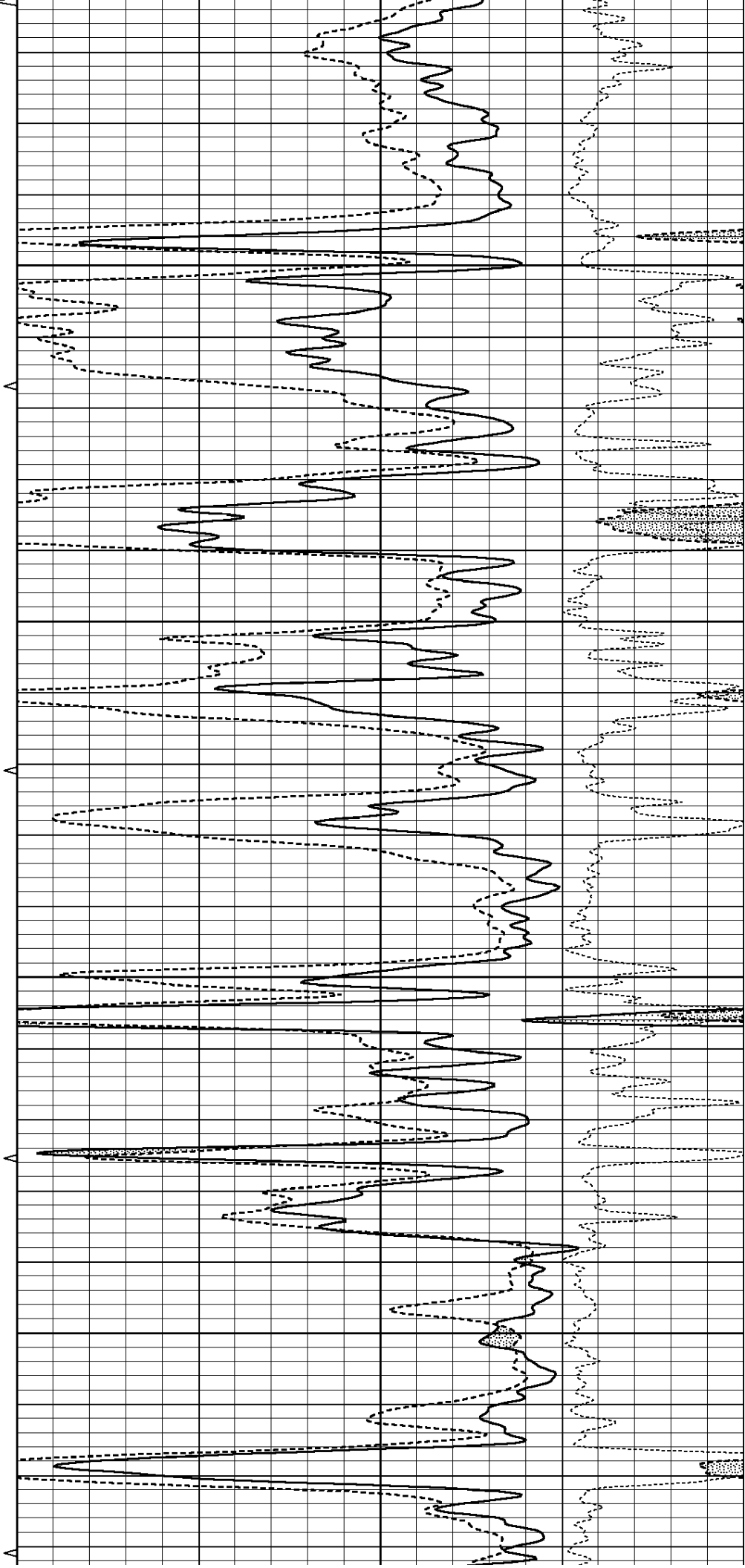


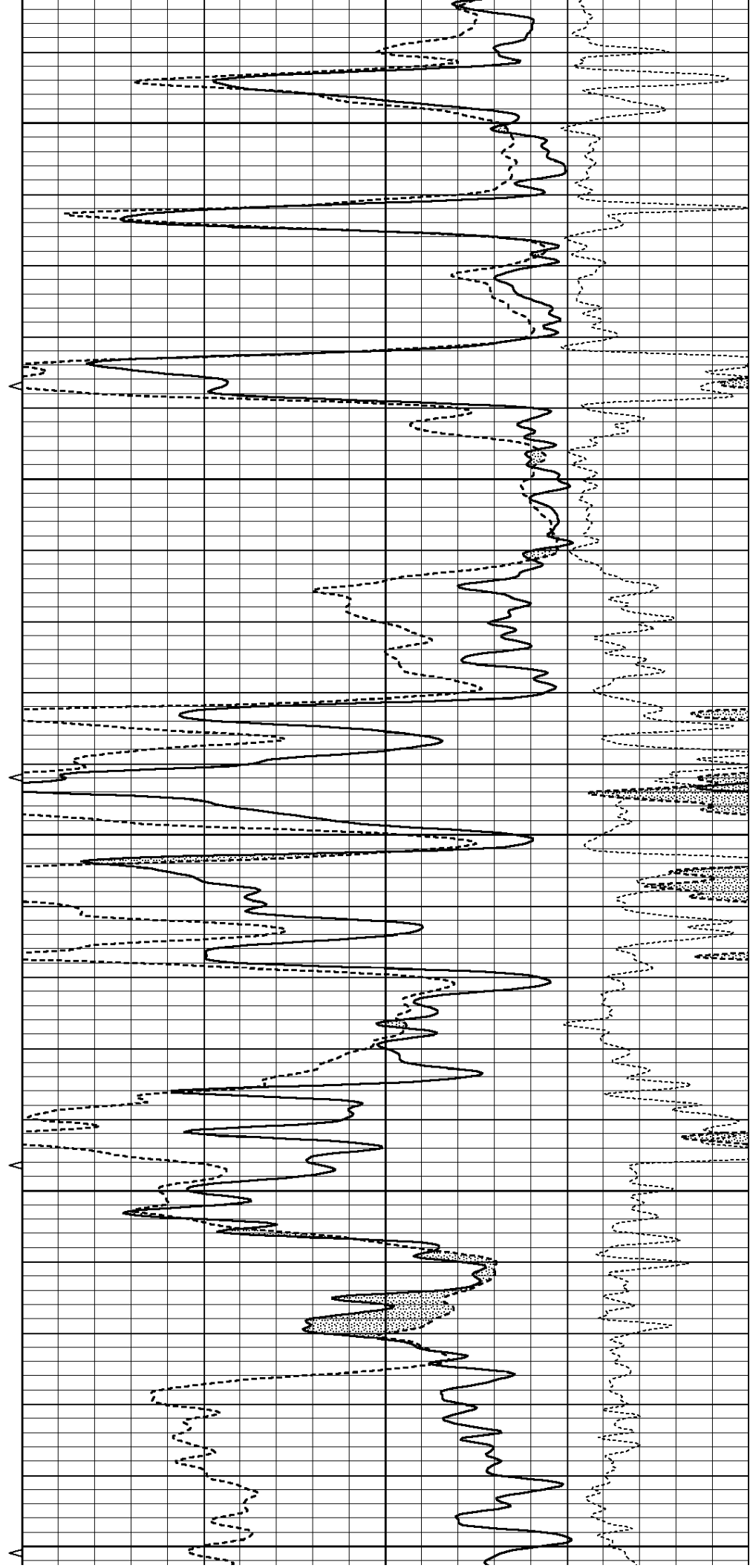
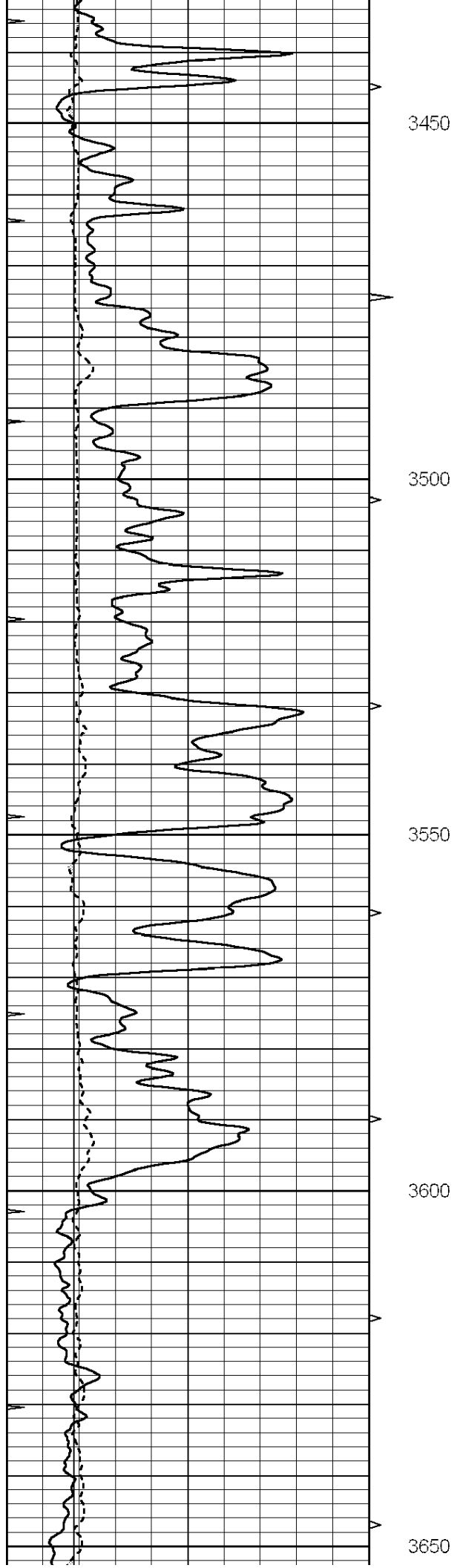
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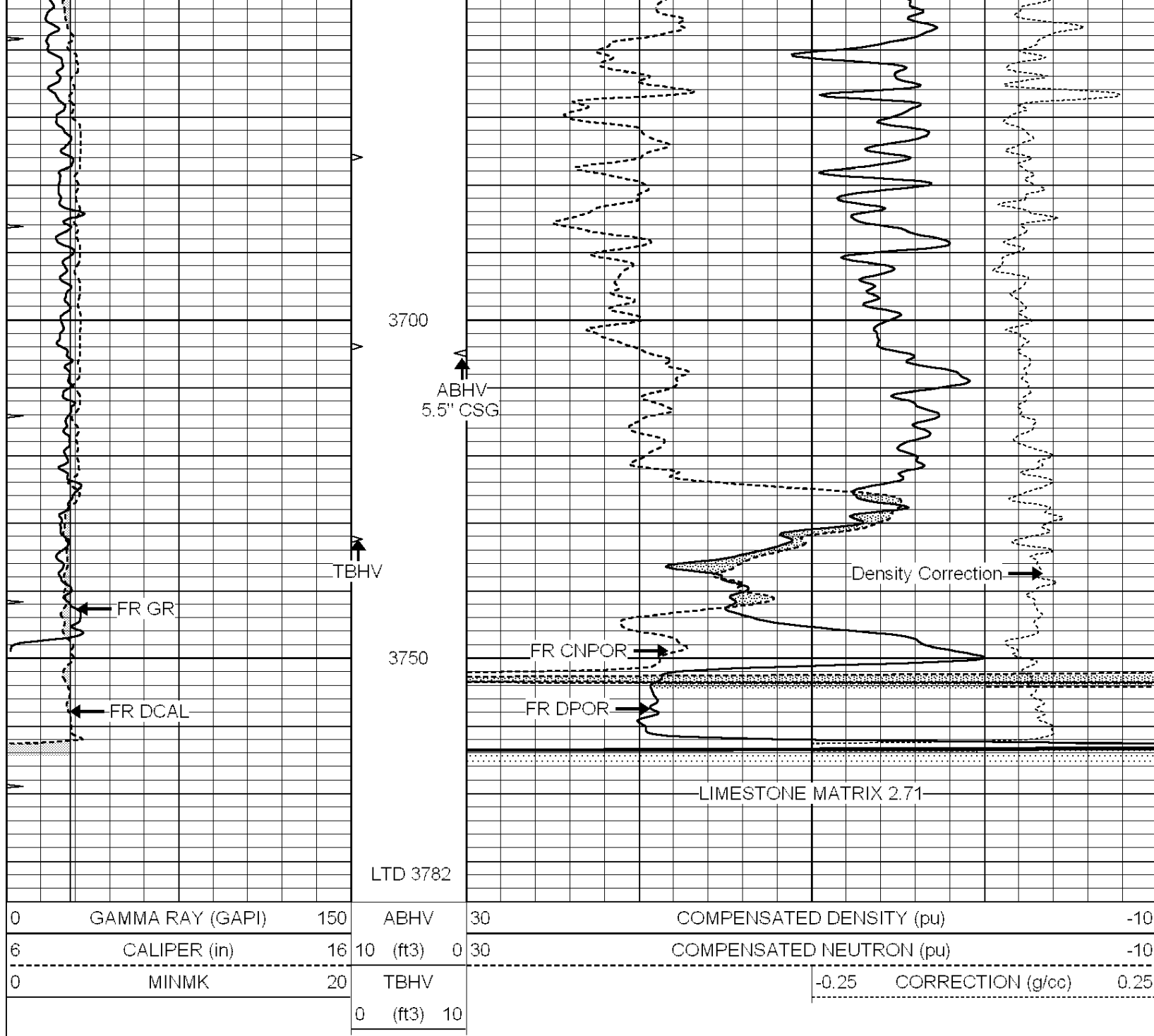
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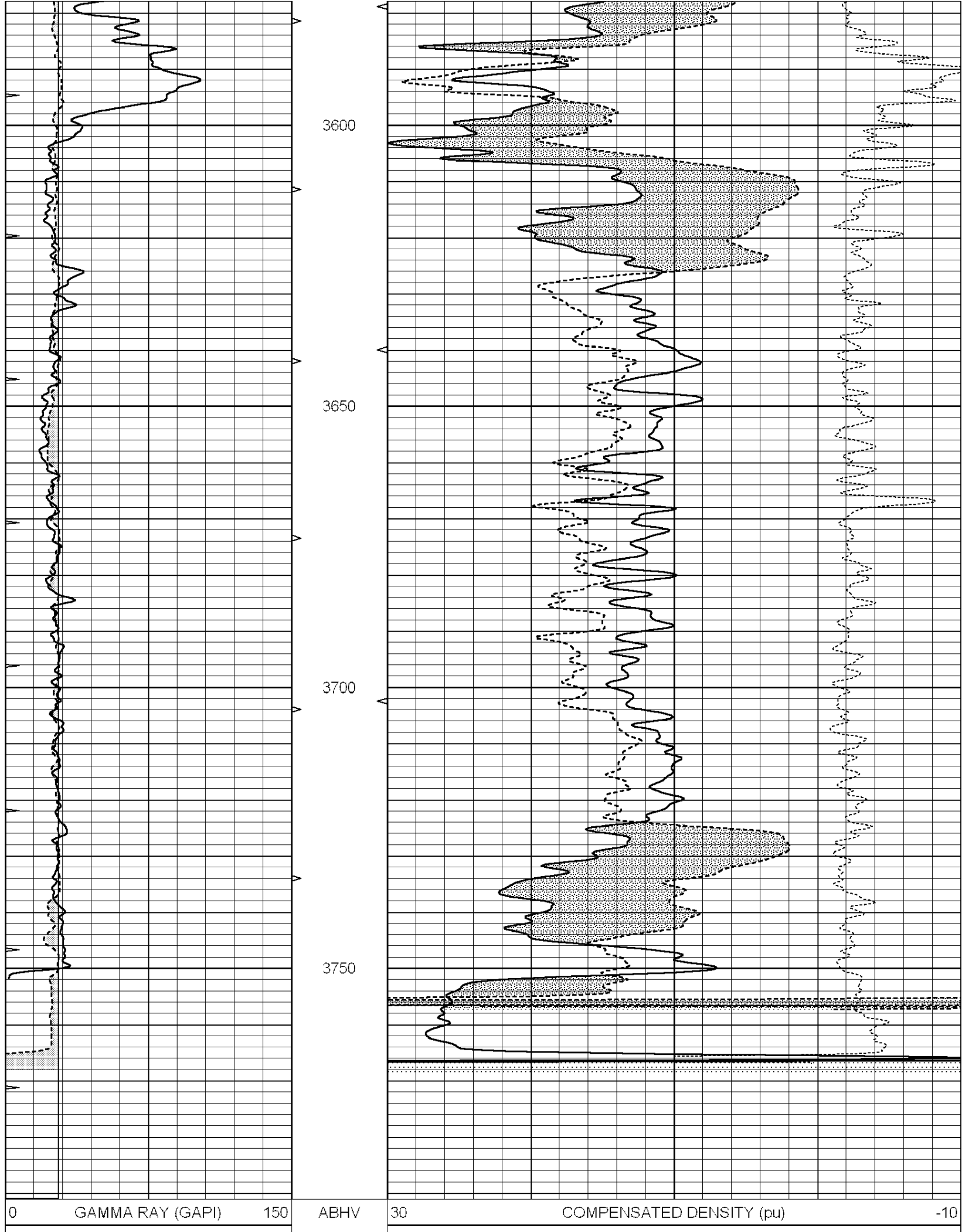




DOLOMITE MATRIX 2.85

Database File: 22217ddn.db
 Dataset Pathname: pass2.5.D
 Presentation Format: _den_neu
 Dataset Creation: Fri Jan 17 06:13:26 2014
 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		



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					

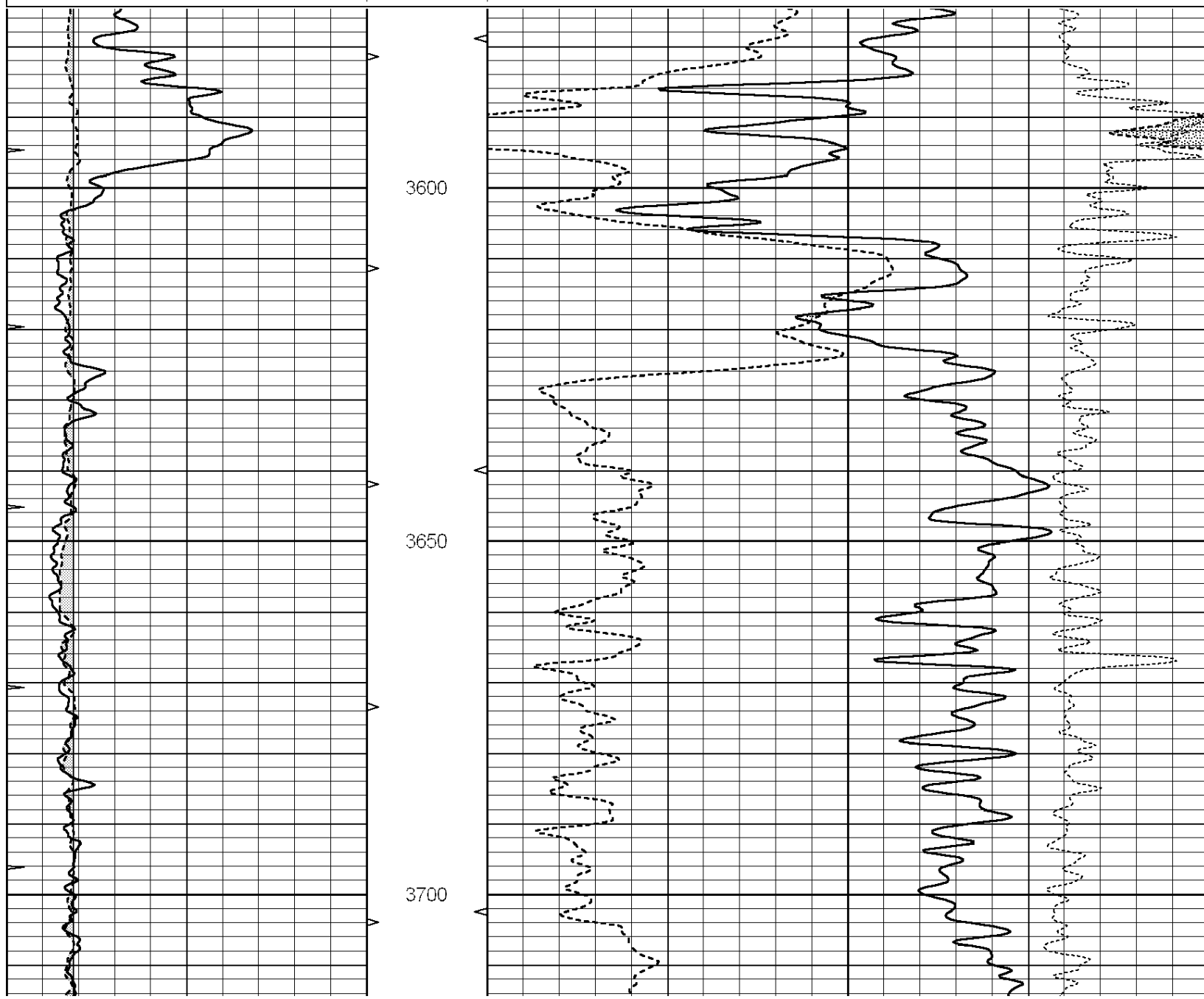


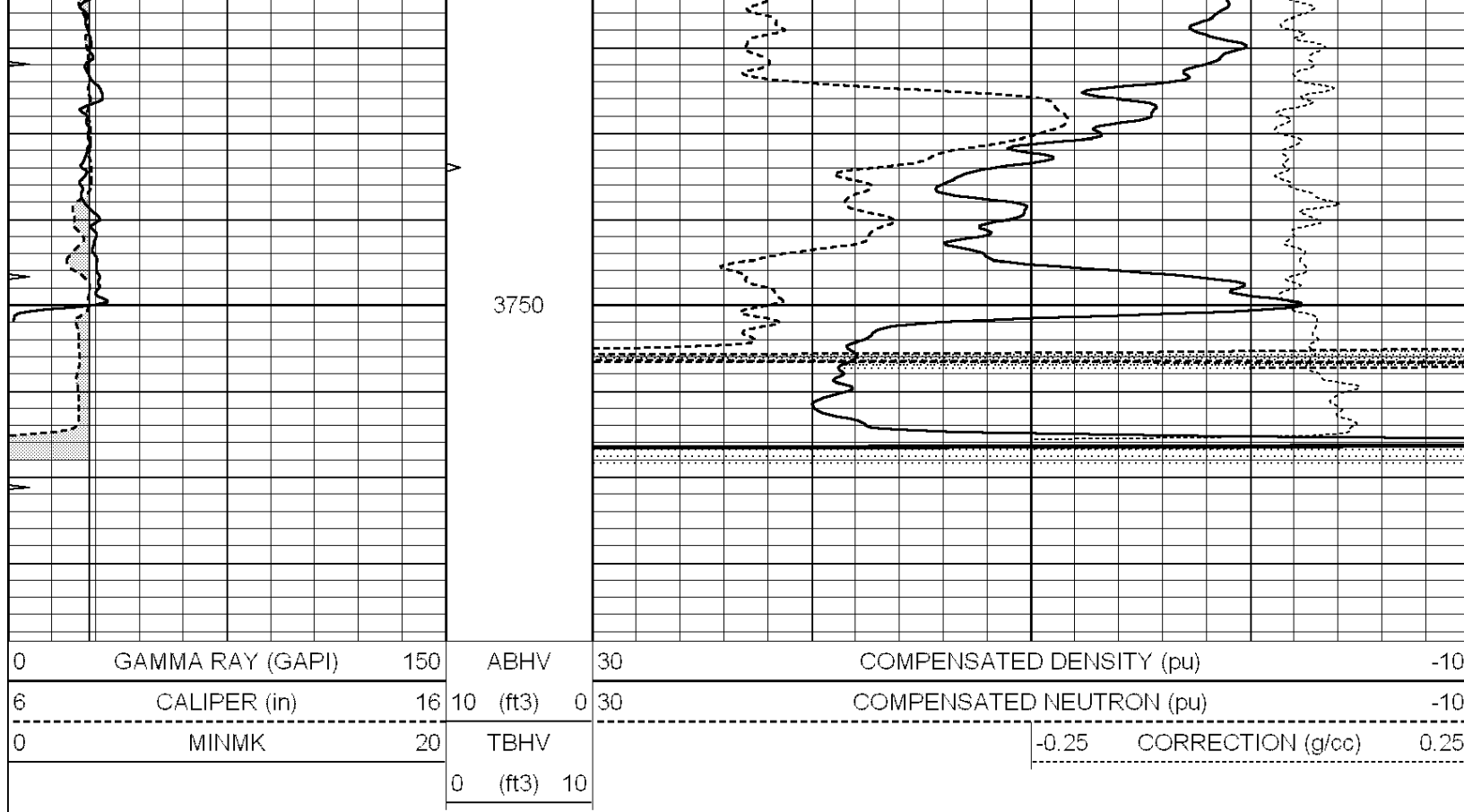
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SANDSTONE MATRIX 2.68

Database File:	22217ddn.db
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Presentation Format:	_den_neu
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Charted by:	Depth in Feet scaled 1:240

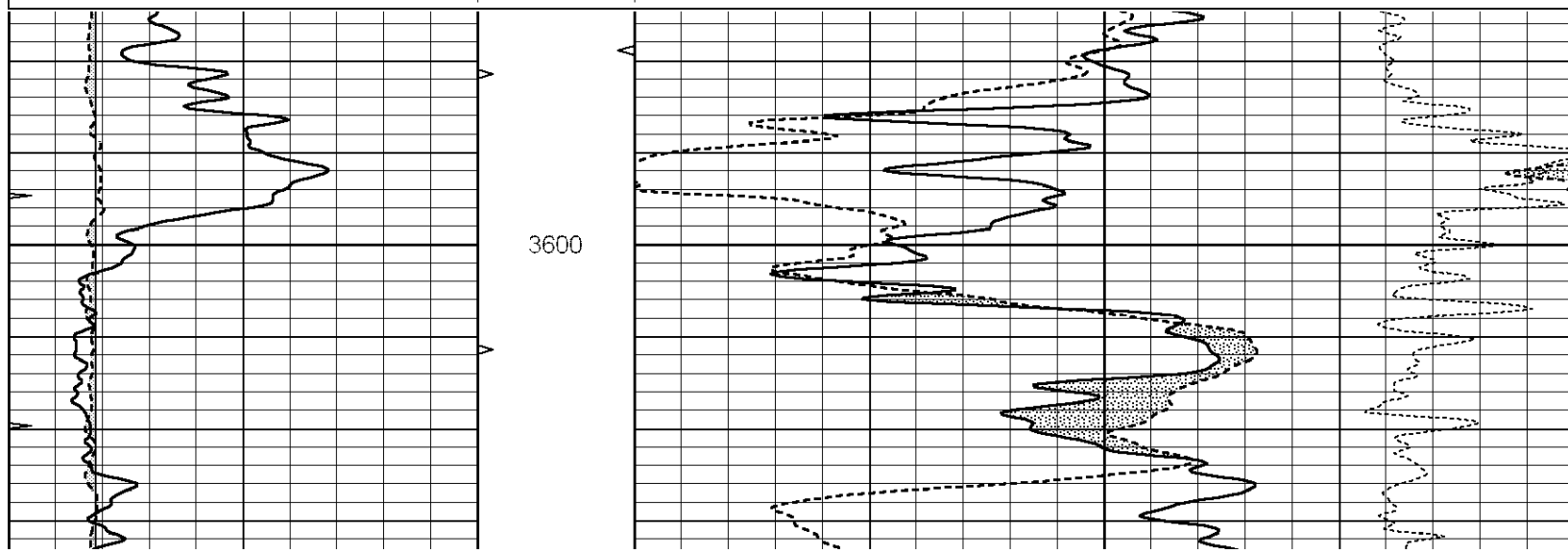
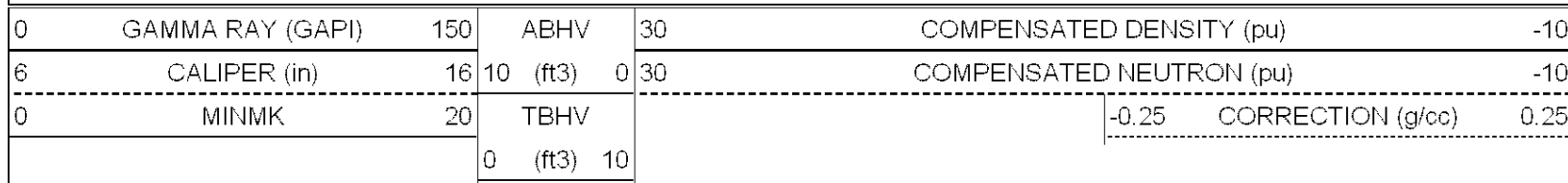
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)			-10
0	MINMK	20	TBHV			-0.25	CORRECTION (g/cc)	0.25
			0 (ft3) 10					

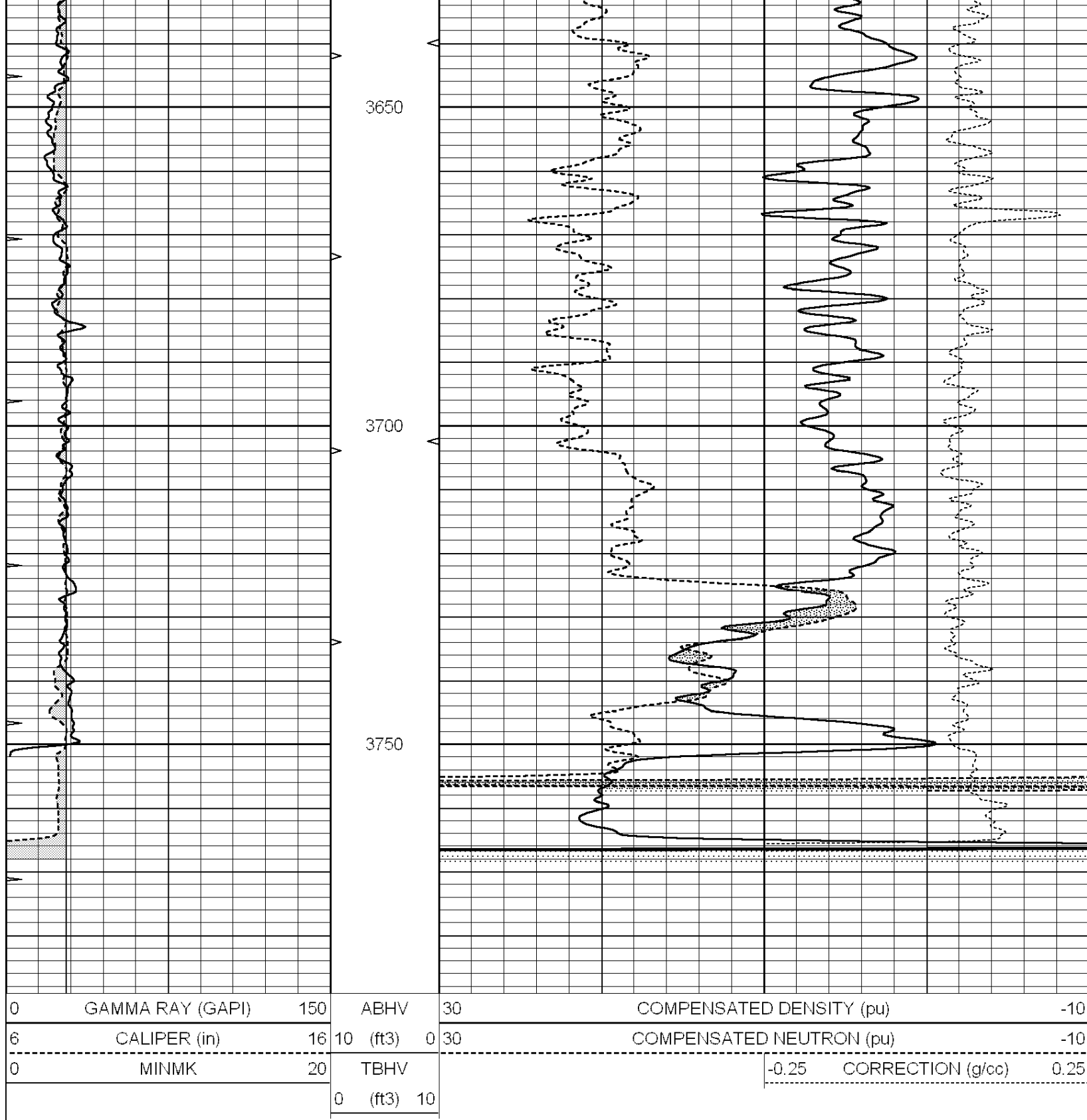




REPEAT SECTION

Database File: 22217ddn.db
 Dataset Pathname: pass2.5
 Presentation Format: _den_neu
 Dataset Creation: Fri Jan 17 05:20:09 2014 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 22217ddn.db
Dataset Pathname: pass3.4
Dataset Creation: Fri Jan 17 05:12:11 2014 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
Performed: Sat Jan 04 10:54:27 2014

Readings

References

Results

Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	500.000	2.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	580.000	3.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	560.000	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	540.000	-4.000

Compensated Density Calibration Report						
Serial-Model:			GEAR2-GEARHART			
Source / Verifier:			147 / 147			
Master Calibration Performed:			Fri Nov 08 12:50:12 2013			
Master Calibration						
	Density		Far Detector		Near Detector	
Magnesium	1.710	g/cc	923.76		475.45	cps
Aluminum	2.580	g/cc	205.31		331.69	cps
Spine Angle = 76.54			Density/Spine Ratio = 0.563			
	Size		Reading			
Small Ring	8.40	in	3.59		V	
Large Ring	14.00	in	5.47		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:			7					
Tool Model:			Probe1					
Performed:			Sat Jan 04 10:53:32 2014					
Calibrator Value:			1.0		GAPI			
Background Reading:			0.0		cps			
Calibrator Reading:			1.0		cps			
Sensitivity:			0.5000		GAPI/cps			