



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	MAI OIL OPERATIONS, INC.		
Well	KENNETH-AXMAN #1		
Field	MARY A		
County	BARTON	State	KANSAS
Location:	API # : 15-009-25766-00-00		Other Services
	330' FSL & 950' FWL		DIL/MEL
	W2 - SE - SW - SW		
	SEC 23 TWP 17S RGE 15W		
Permanent Datum	GROUND LEVEL	Elevation	1993
Log Measured From	KELLY BUSHING 8' A.G.L.		
Drilling Measured From	KELLY BUSHING	K.B. 2001	
		D.F. 1999	
		G.L. 1993	
Date	11/5/12		
Run Number	ONE		
Depth Driller	3620		
Depth Logger	3619		
Bottom Logged Interval	3595		
Top Log Interval	2700		
Casing Driller	8 5/8"@1019'		
Casing Logger	1019		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4600PPM	
Density / Viscosity	9.0/62		
pH / Fluid Loss	9.5/9.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.30@60F		
Rmf @ Meas. Temp	0.98@60F		
Rmc @ Meas. Temp	1.56@60F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.69@113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	113F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	IAN MABB	JEFF GRONEWEG	
Witnessed By	JIM MUSGROVE		

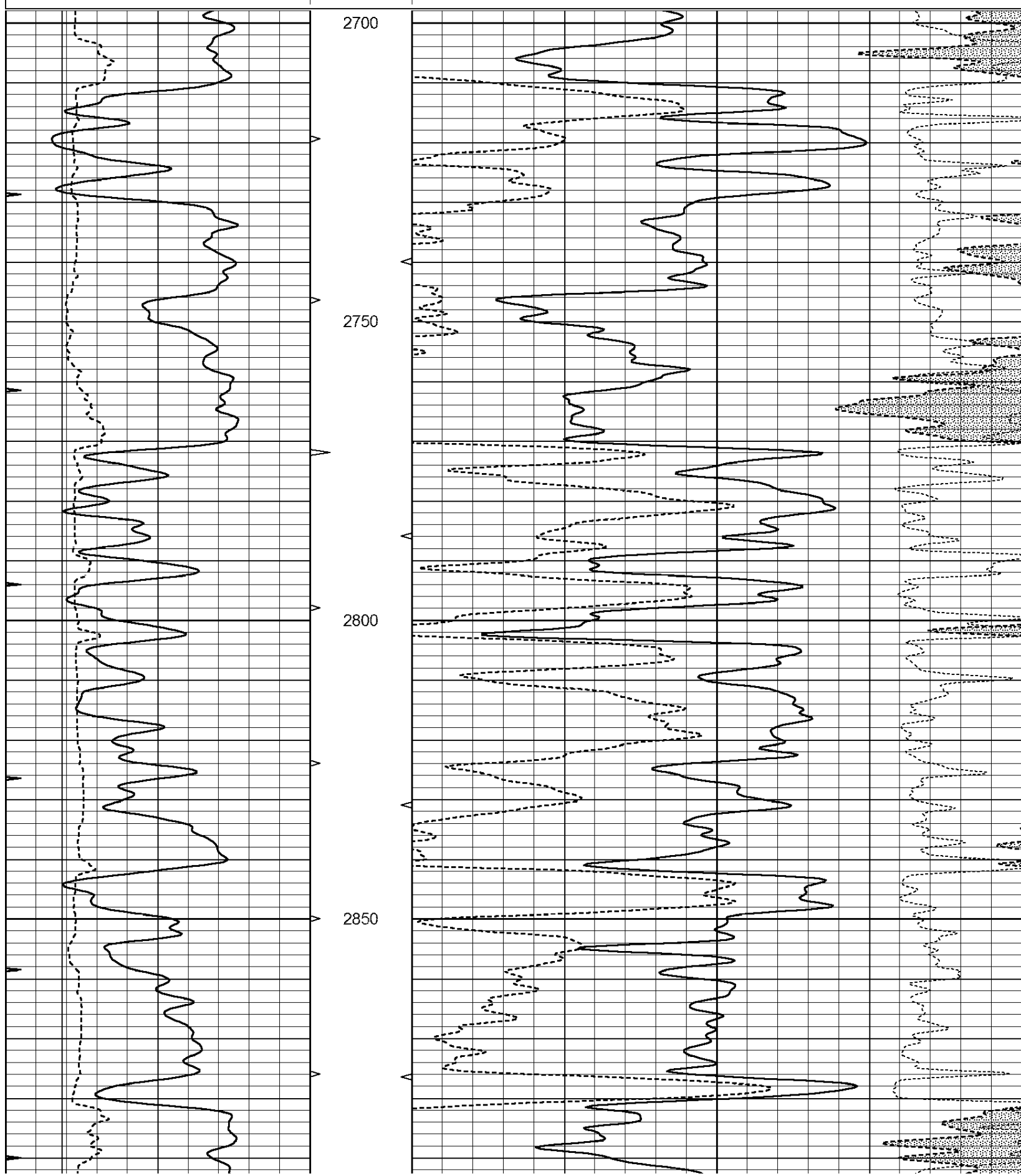
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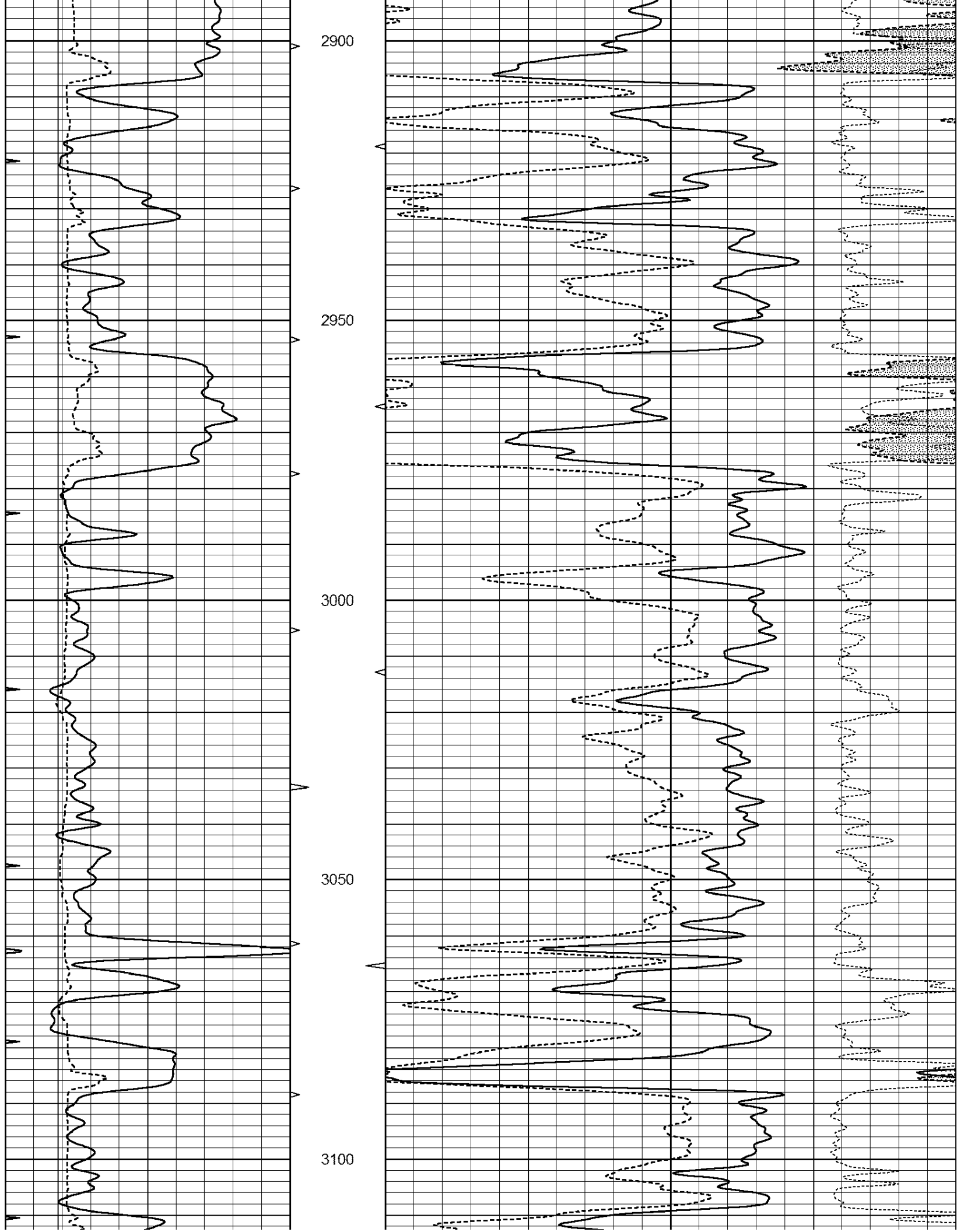
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

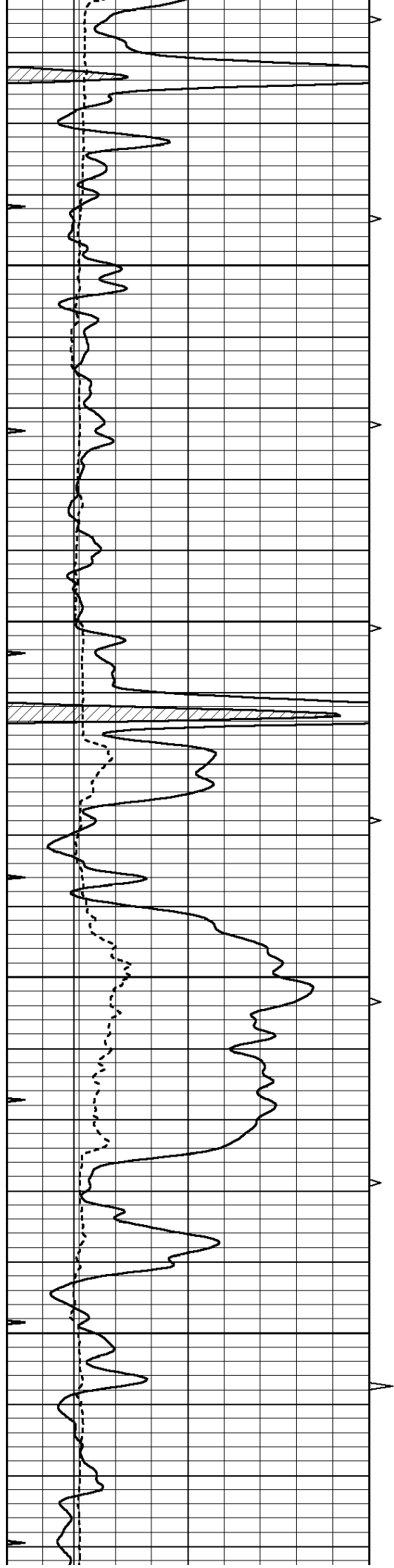
Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
OLMITZ, KS. - HWY 4, 1 MILE NORTH TO NW 130 - 1/2 MILE WEST - NORTHWEST 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			





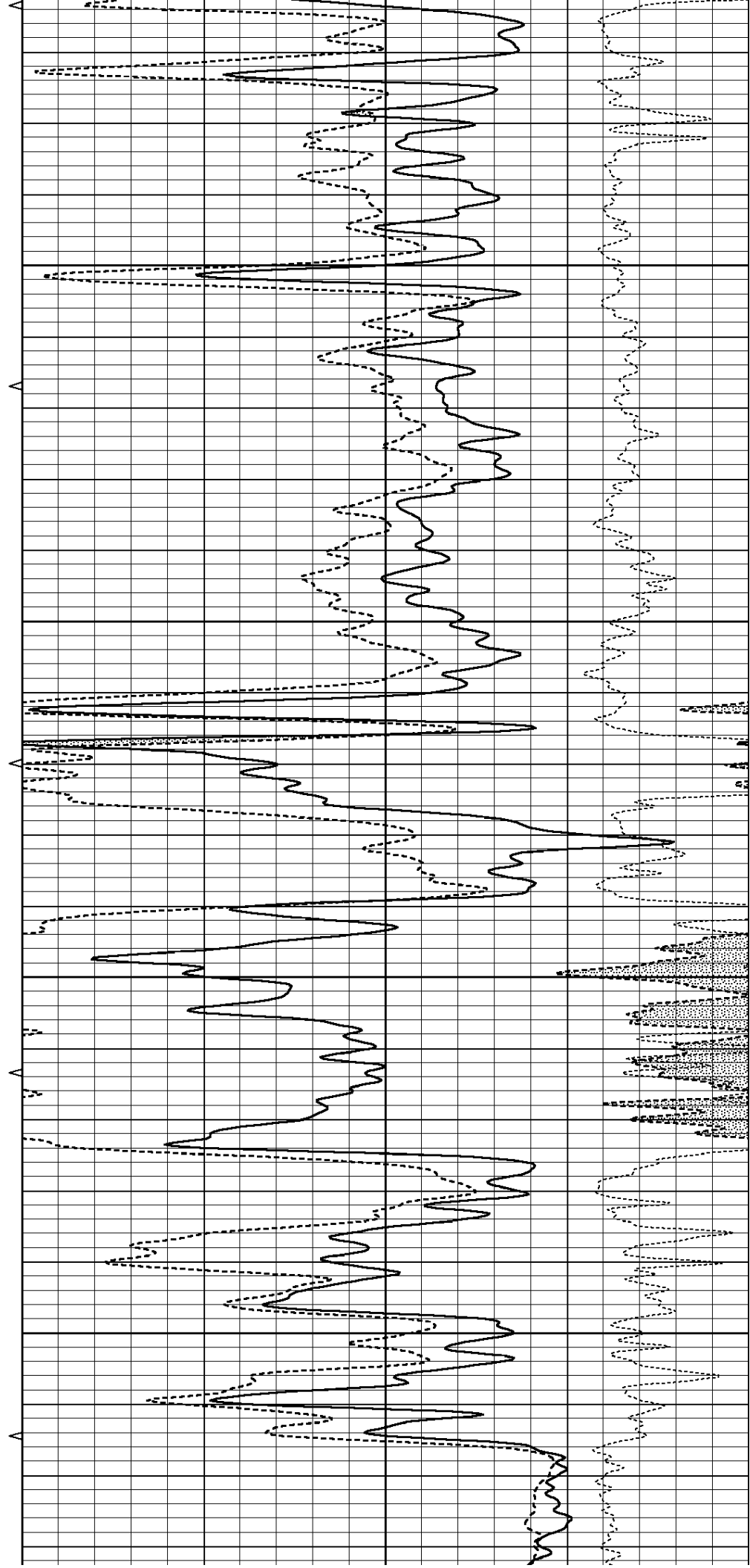


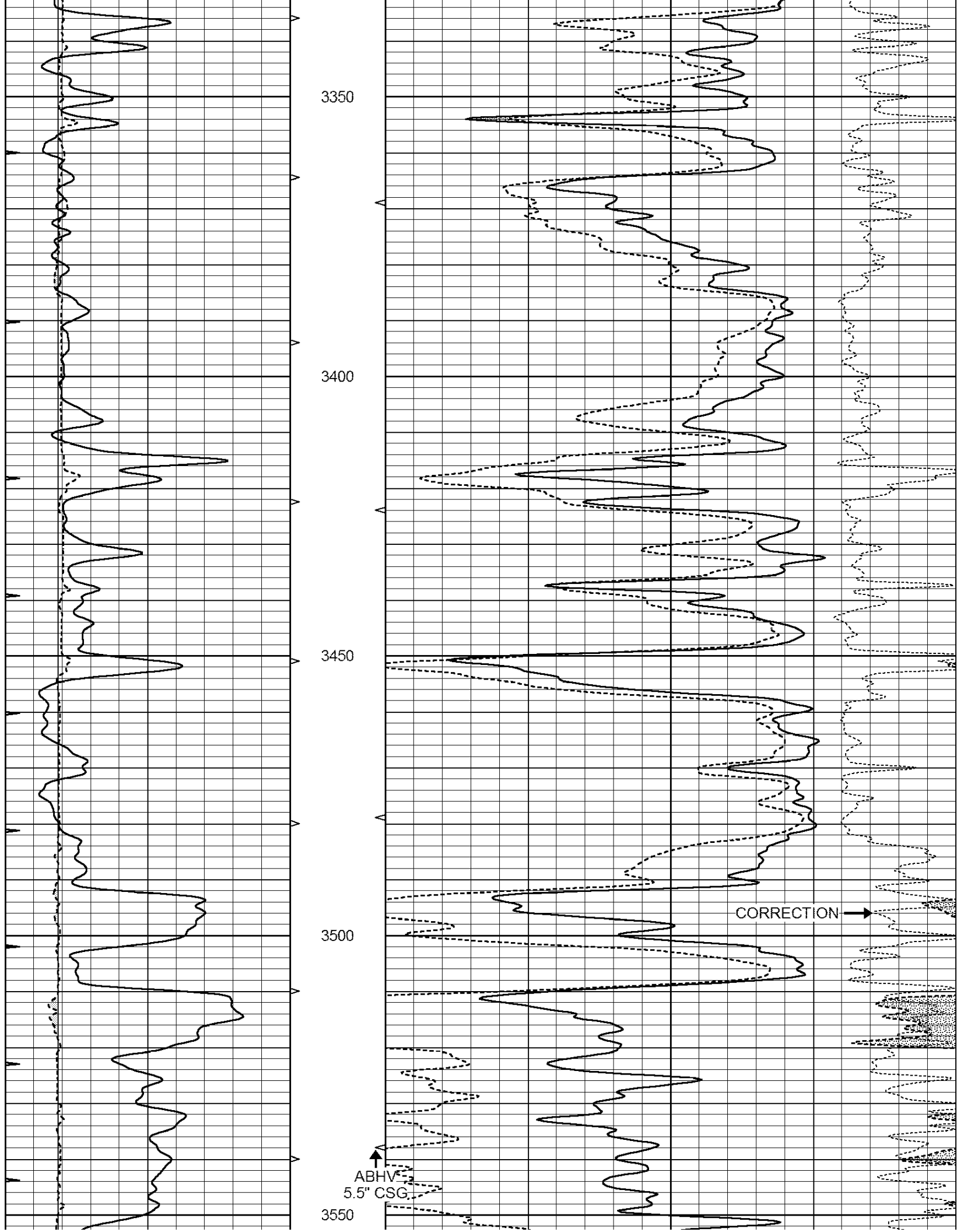
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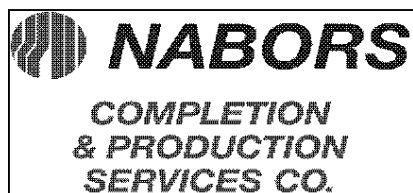
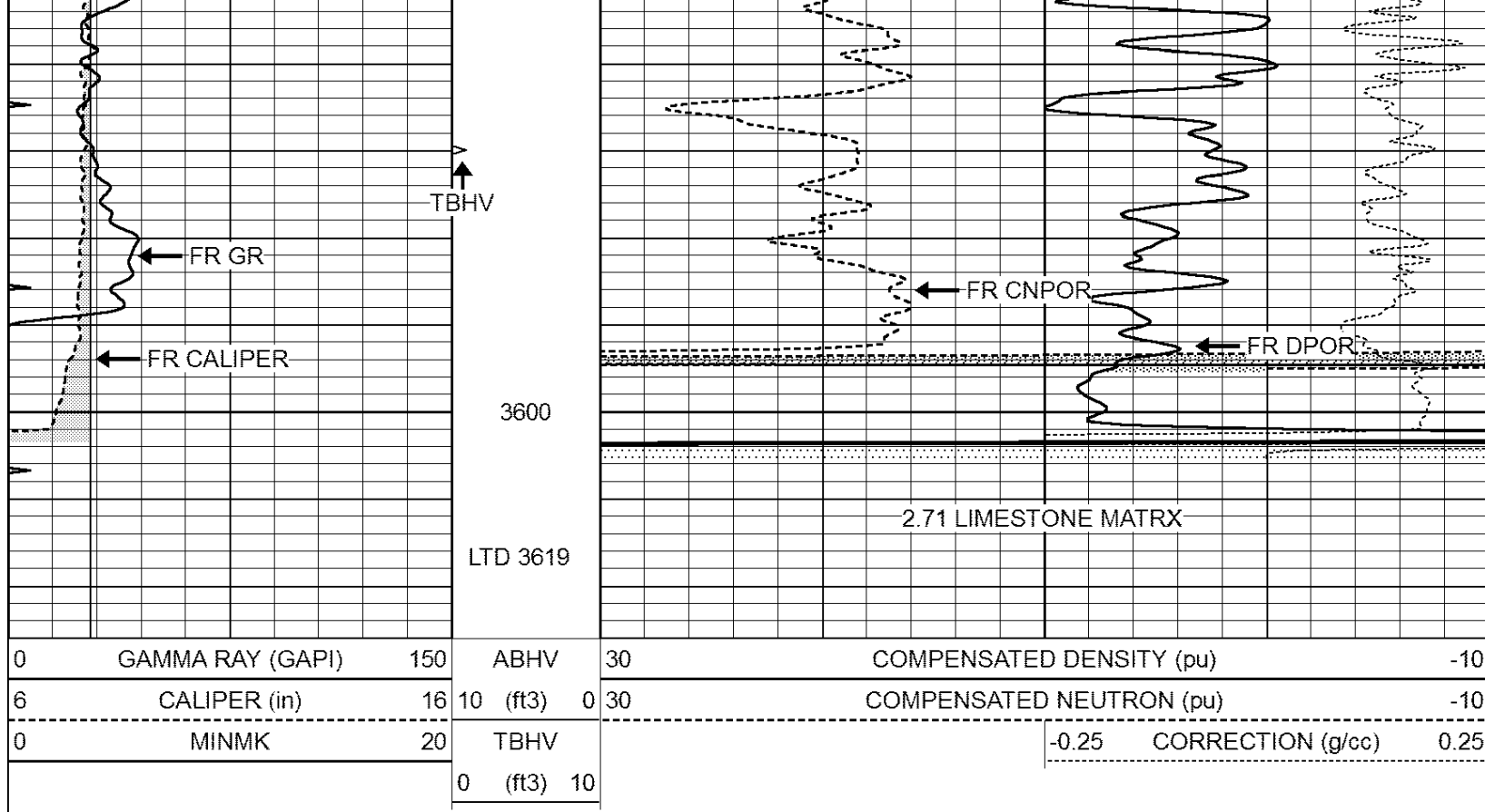
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3250

3300



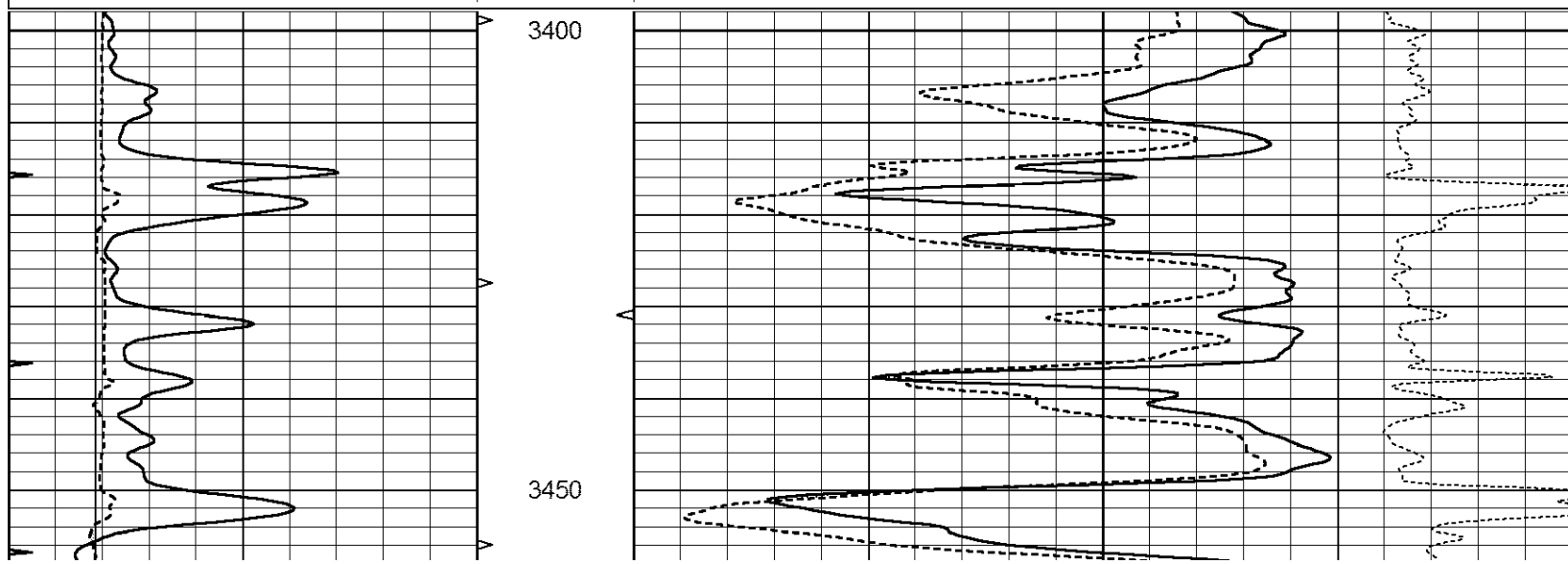


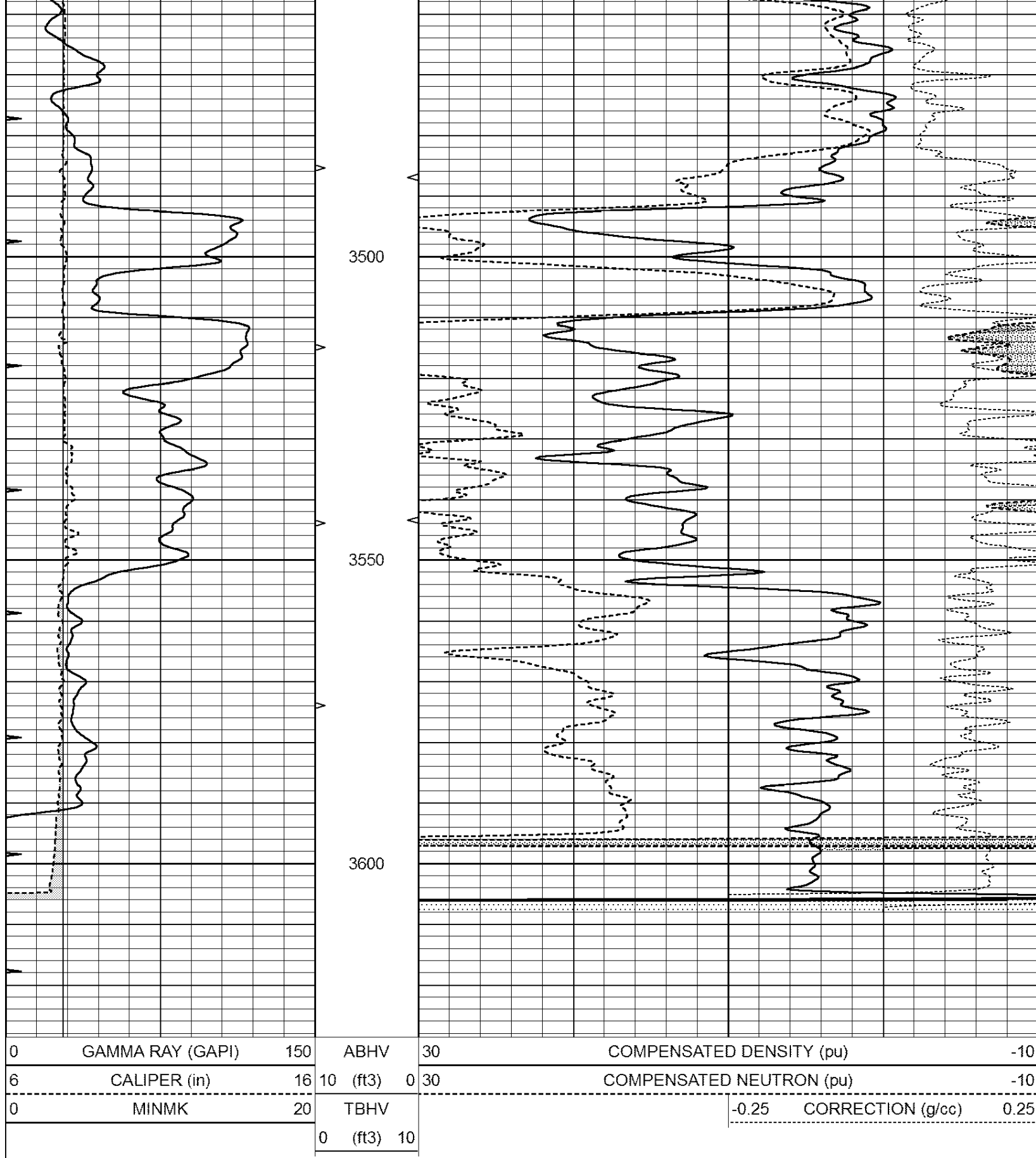


REPEAT SECTION

Database File: 4009783ddn.db
 Dataset Pathname: pass3.5
 Presentation Format: den_neu
 Dataset Creation: Mon Nov 05 21:19:54 2012 by Calc Open-Cased 090629
 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: 4009783ddh.db
Dataset Pathname: pass4.4
Dataset Creation: Mon Nov 05 21:49:33 2012 by Calc Open-Cased 090629

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	470.000	-13.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	500.000	-8.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Compensated Density Calibration Report	
Serial-Model:	GEAR1-GEARHART
Source / Verifier:	147 / 147
Master Calibration Performed:	Tue Oct 30 08:31:02 2012

Master Calibration					
Density			Far Detector		Near Detector
Magnesium	1.710	g/cc	1205.67		613.10 cps
Aluminum	2.590	g/cc	277.64		430.46 cps
Spine Angle = 76.46			Density/Spine Ratio = 0.583		
Size			Reading		
Small Ring	9.40	in	4.69		V
Large Ring	14.00	in	6.52		V

Compensated Neutron Calibration Report	
Serial Number:	NUE_2I
Tool Model:	G

CALIBRATION						
Detector		Readings		Target		Normalization
Short Space		1.00	cps	1.00	cps	1.0000
Long Space		1.00	cps	1.00	cps	1.0000

Gamma Ray Calibration Report			
Serial Number:	GR5		
Tool Model:	OPEN		
Performed:	Tue Oct 30 11:39:23 2012		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.7200	GAPI/cps	