



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	MAI OIL OPERATIONS, INC.		
Well	REISER #10		
Field	MUELLER		
County	STAFFORD	State	KANSAS
Location:	API # : 15-185-23907		Other Services DIL MICRO
SEC 21 TWP 21S RGE 12W			
Permanent Datum	GROUND LEVEL	Elevation	1849
Log Measured From	KELLY BUSHING 8' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Date	11-6-14		
Run Number	ONE		
Depth Driller	3700		
Depth Logger	3700		
Bottom Logged Interval	3676		
Top Log Interval	2900		
Casing Driller	641		
Casing Logger	642		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.5 / 49		
pH / Fluid Loss	8.5 / 8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.70 @ 78F		
Rmf @ Meas. Temp	0.52 @ 78F		
Rmc @ Meas. Temp	0.84 @ 78F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.487 @ 112F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	2:30 P.M.		
Maximum Recorded Temperature	112F		
Equipment Number	3802		
Location	HAYS, KS.		
Recorded By	RUPP		
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

NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: GREAT BEND, 10S TO RD. #180, 5E, 1/2S, E INTO.



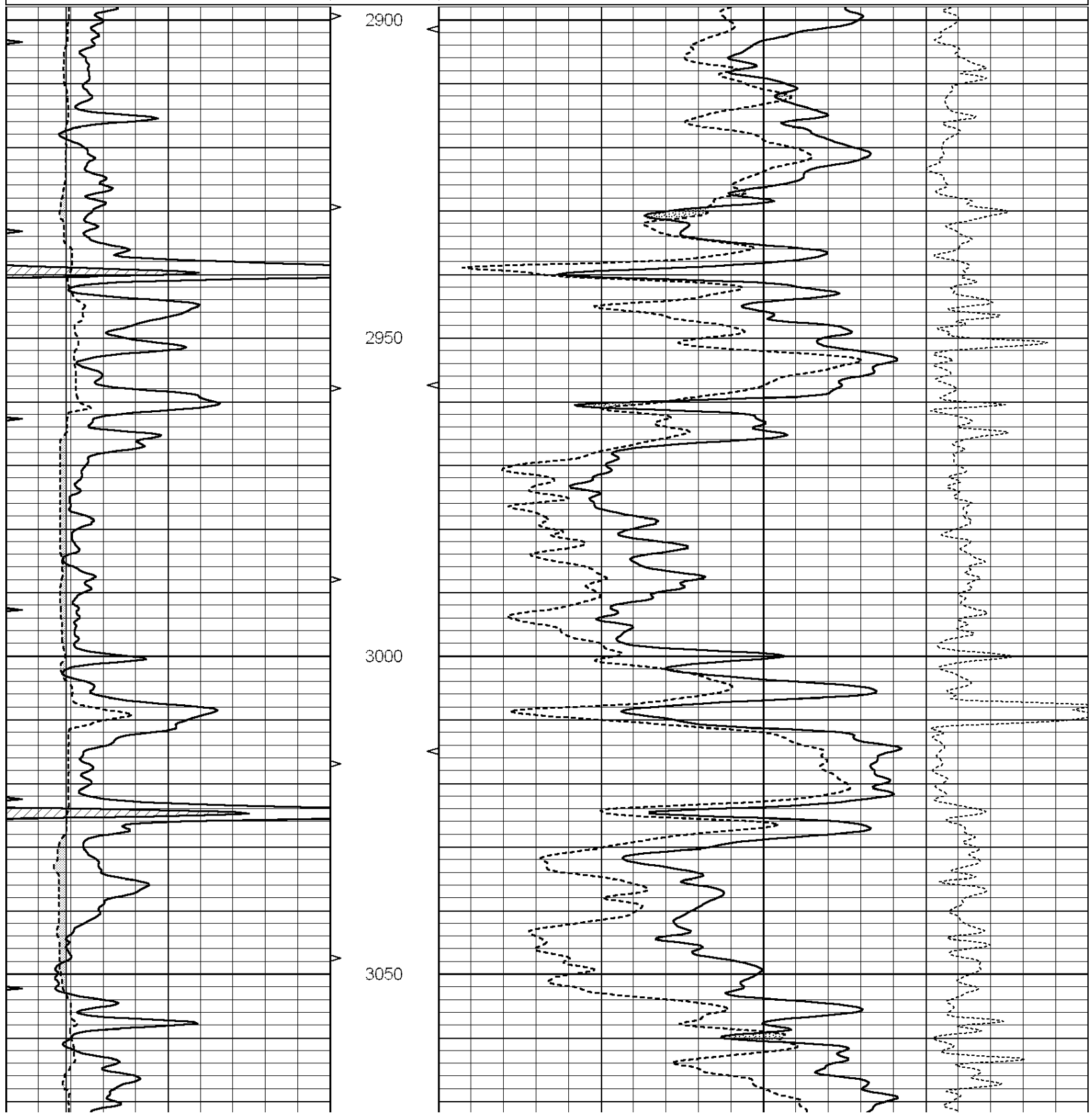
NABORS

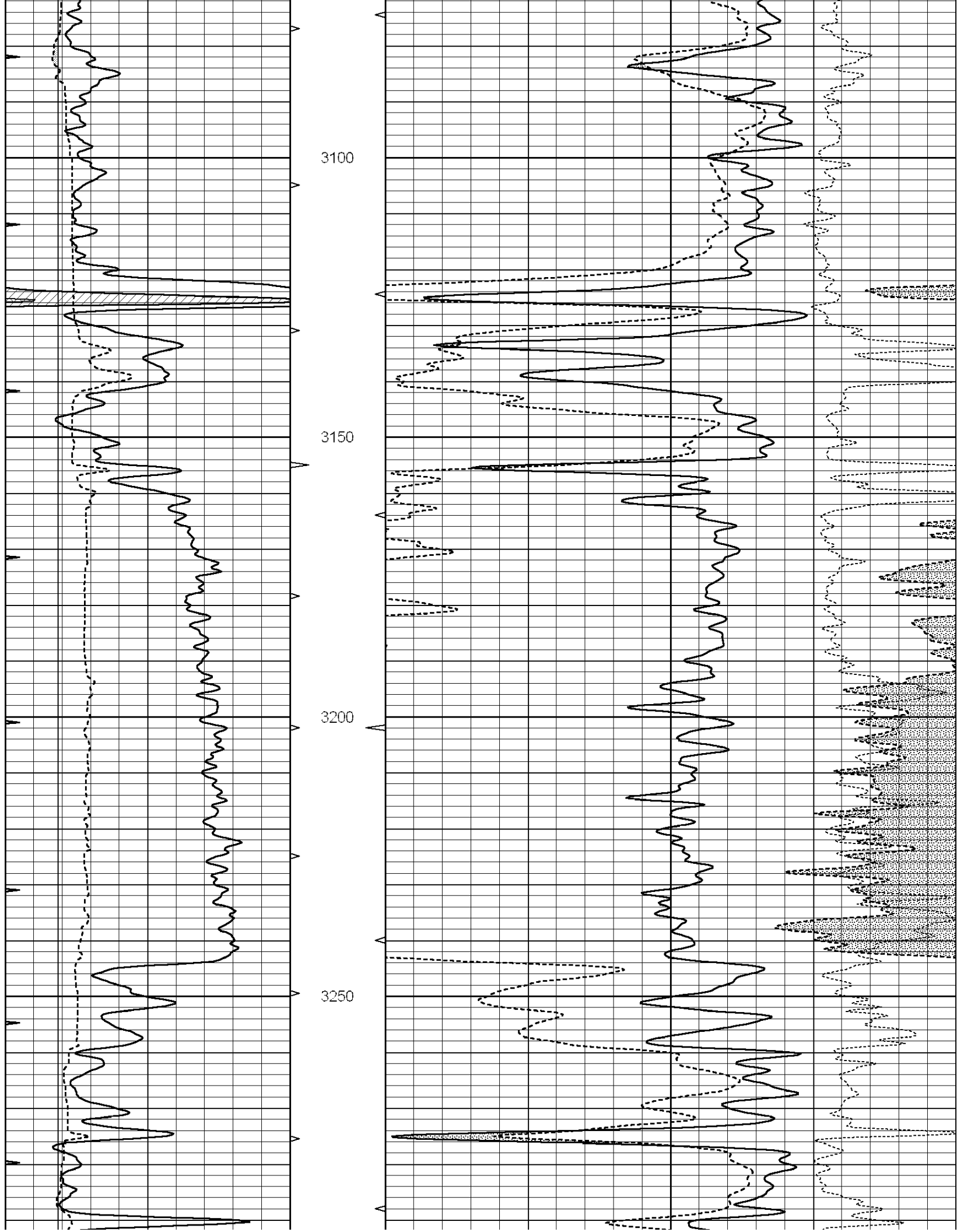
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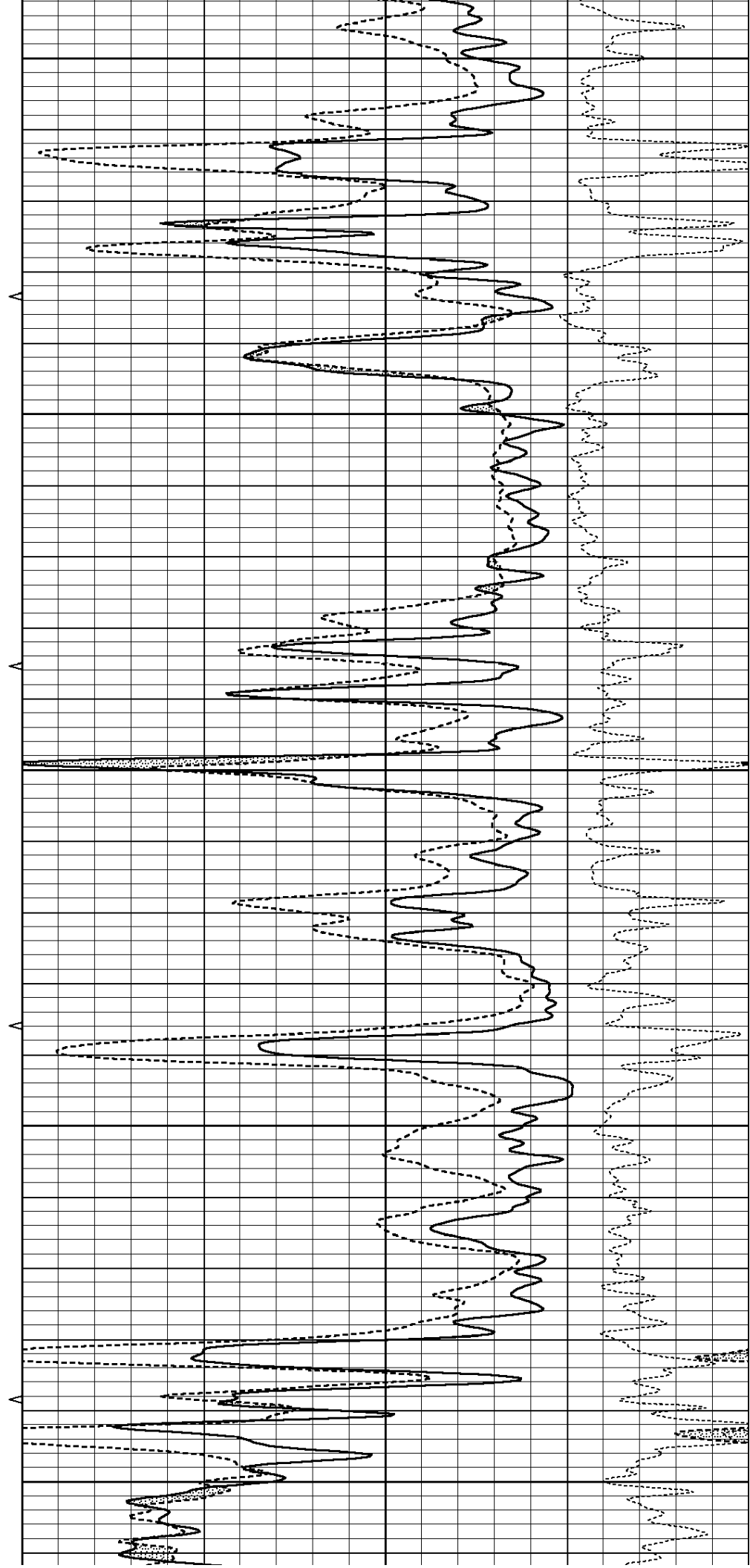
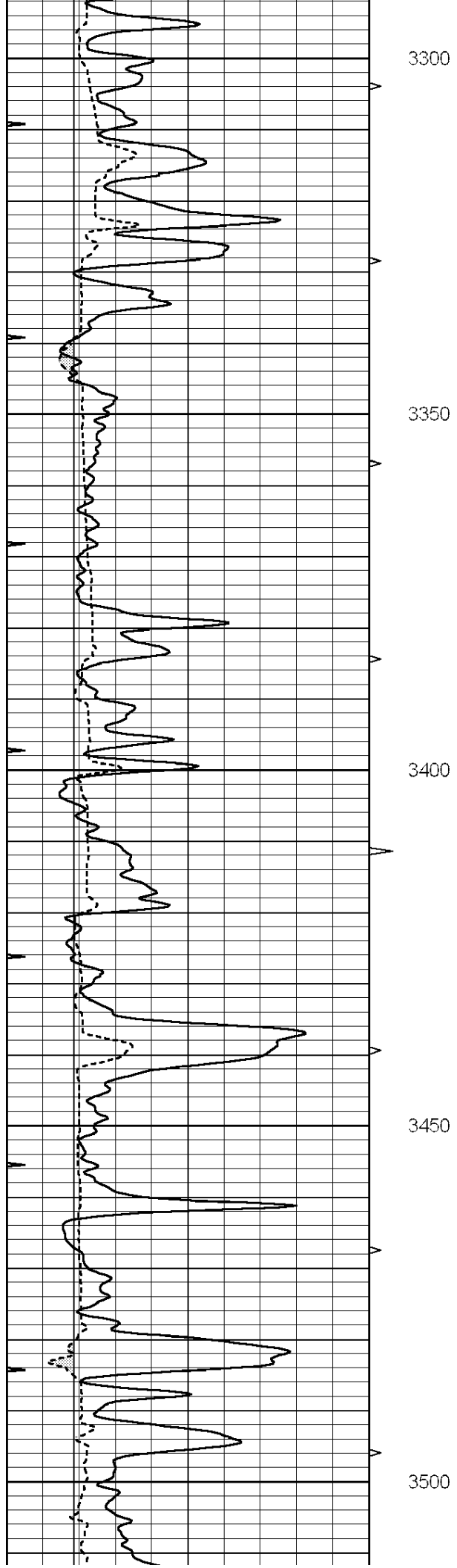
MAIN SECTION

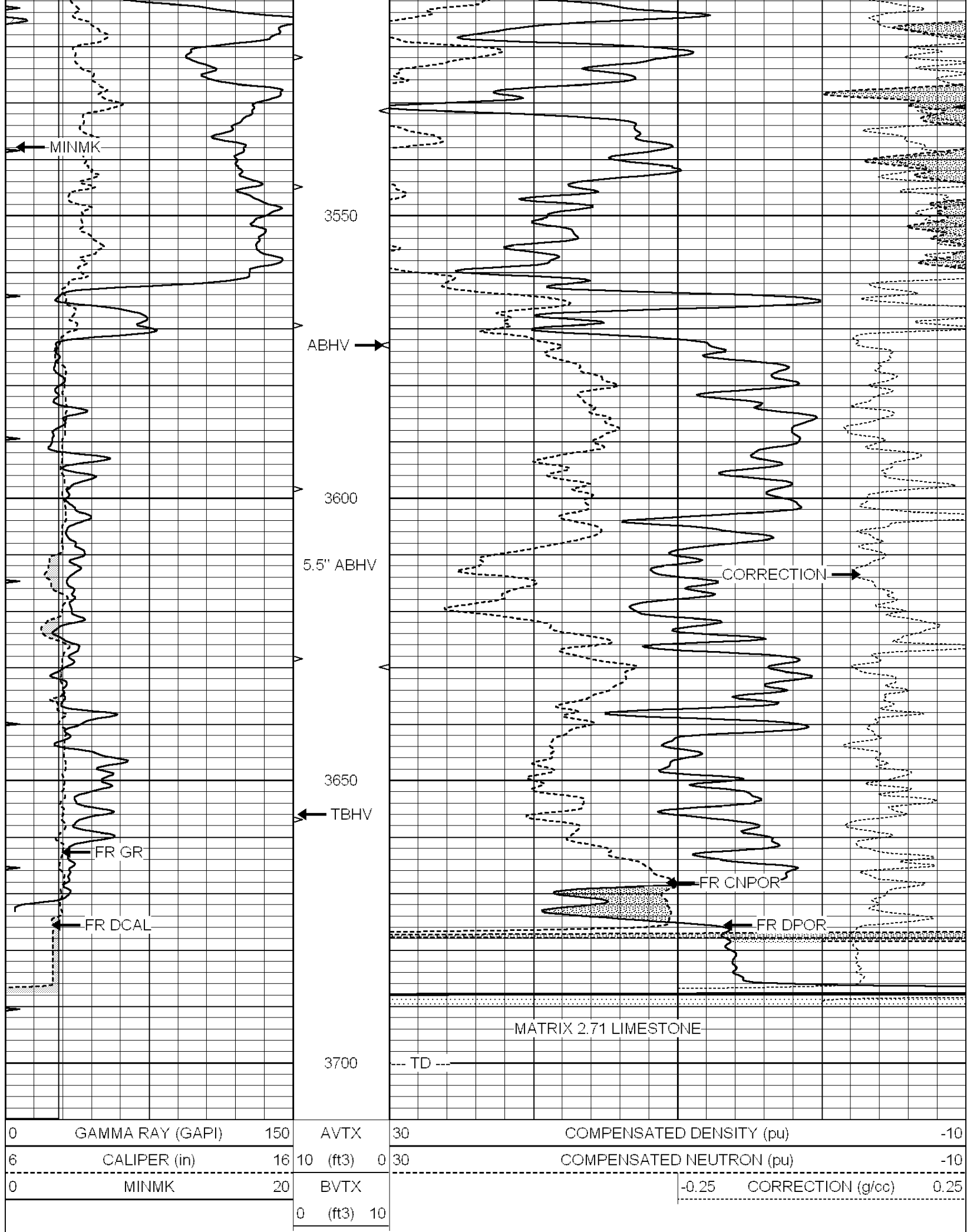
Database File: 26254ddn.db
 Dataset Pathname: pass3A
 Presentation Format: _den_neu
 Dataset Creation: Thu Nov 06 16:34:00 2014
 Charted by: Depth in Feet scaled 1:240

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









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

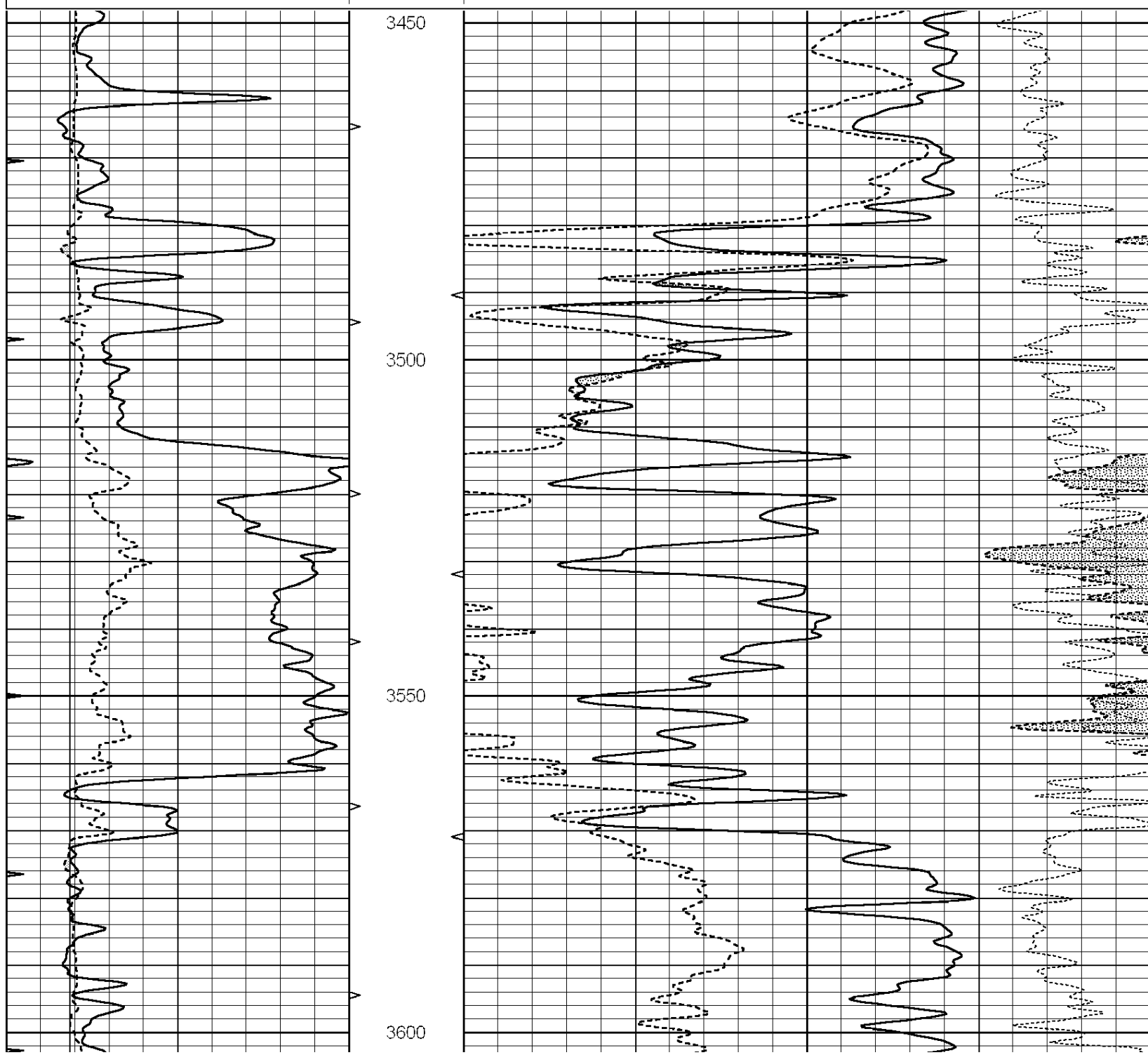


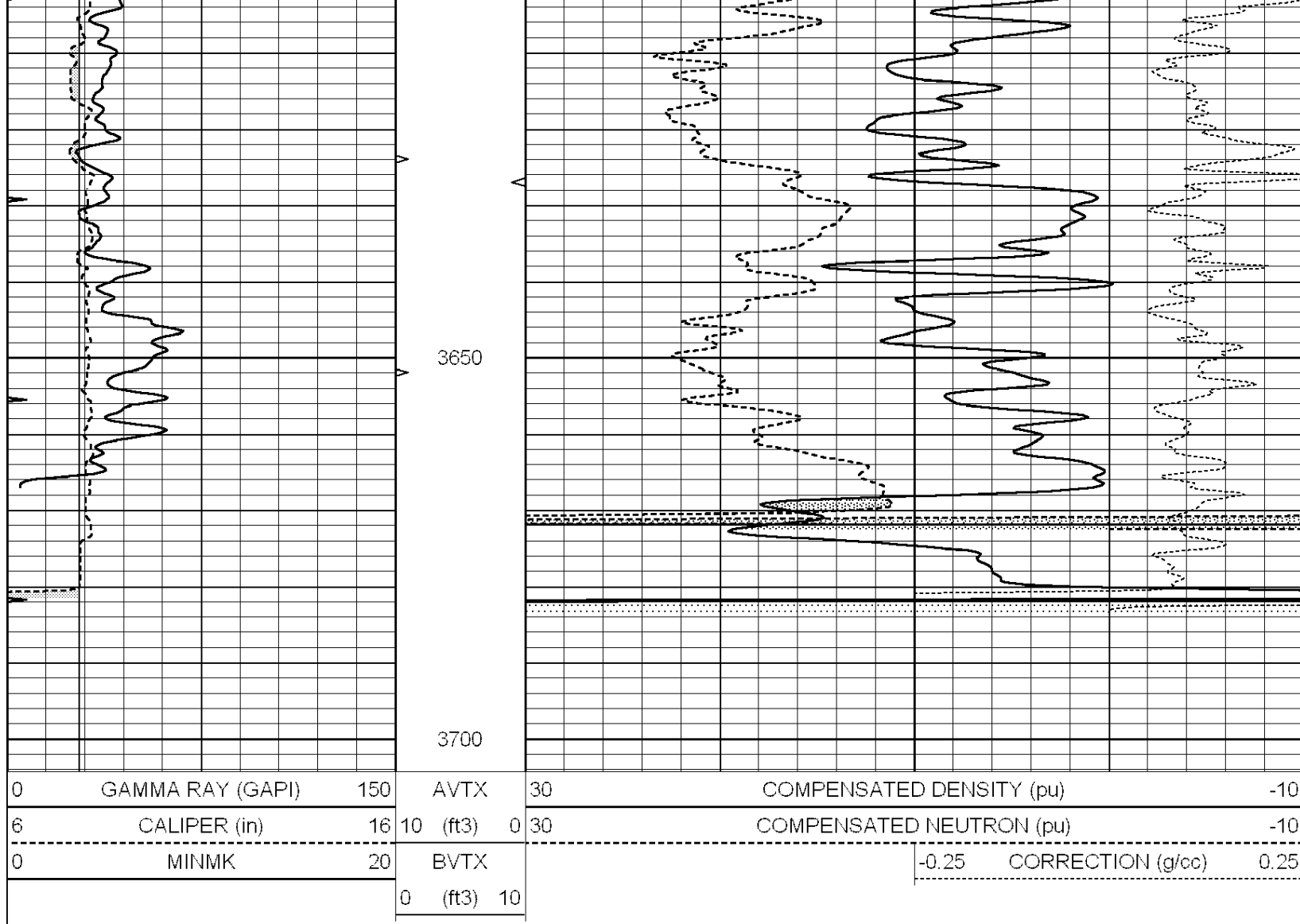
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REPEAT SECTION

Database File: 26254ddn.db
Dataset Pathname: pass2A
Presentation Format: _den_neu
Dataset Creation: Thu Nov 06 16:15:55 2014 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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





Calibration Report

Database File: 26254ddn.db
 Dataset Pathname: pass3A
 Dataset Creation: Thu Nov 06 16:34:00 2014

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Thu Nov 06 15:13:29 2014
 Downhole Cal Performed: Sat Jan 19 19:51:38 2013
 After Survey Verification Performed: Sat Jan 19 19:51:38 2013

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.793	0.790	V	0.000	400.000	mmho/m	520.000	11.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	580.000	-33.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.041	0.642	V	0.000	400.000	mmho/m	664.874	-27.011
Medium	0.035	0.802	V	0.000	464.000	mmho/m	604.936	-21.367

Downhole Calibration

Readings		References			Results	
Zero	Cal	Zero	Cal		m'	b'

Deep	135384.000	27094.500	mmho/m	135400.000	27082.400	mmho/m	1.000	-19.259
Medium	-47330.100	-9381.740	mmho/m	-47327.100	-9389.280	mmho/m	1.000	-10.154
LL3		7.322	V		1400.000	Ohm-m		
		0.038	V		20.000	Ohm-m		
		-7.273	V		4000.000	mmho-m		
After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	135384.000	27094.500	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-47330.100	-9381.740	mmho/m	1.000	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:				Thu Nov 06 14:50:55 2014				
Master Calibration								
	Density			Far Detector		Near Detector		
Magnesium	1.710	g/cc		943.83		576.01	cps	
Aluminum	2.580	g/cc		212.01		399.19	cps	
Spine Angle = 76.20				Density/Spine Ratio = 0.566				
	Size			Reading				
Small Ring	8.20	in		1.64	V			
Large Ring	14.00	in		2.93	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:			Thu Nov 06 14:17:52 2014					
Calibrator Value:			1.0		GAPI			
Background Reading:			0.0		cps			
Calibrator Reading:			1.0		cps			
Sensitivity:			0.2600		GAPI/cps			

