



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY/NEUTRON
LOG

Company	MAI OIL OPERATIONS, INC.		
Well	LUDWIG #1		
Field	WILDCAT		
County	BARTON	State	KANSAS
Company	MAI OIL OPERATIONS, INC.	Well	LUDWIG #1
Field	WILDCAT	County	BARTON
State	KANSAS	Location:	APL # : 15-009-25579-0000
Permanent Datum	GROUND LEVEL	Elevation	1886
Log Measured From	KELLY BUSHING 8' A.G.L.	Other Services	DIL/MEL
Drilling Measured From	KELLY BUSHING	Elevation	K.B. 1894 D.F. 1892 G.L. 1886
Date	8/21/11		
Run Number	ONE		
Depth Driller	3460		
Depth Logger	3460		
Bottom Logged Interval	3436		
Top Log Interval	2750		
Casing Driller	8 5/8" @ 870'		
Casing Logger	869		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	8300 PPM
Density / Viscosity	9.2/68		
pH / Fluid Loss	11.0/9.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.50 @ 93F		
Rmf @ Meas. Temp	.37 @ 93F		
Rmc @ Meas. Temp	.60 @ 93F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.41 @ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	111F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	STEVE MURPHY		

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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 (785) 628-6395
DIRECTIONS
OLMITZ KS. - 2 W. TO RD. 60 - 1/8 N. - E. INTO

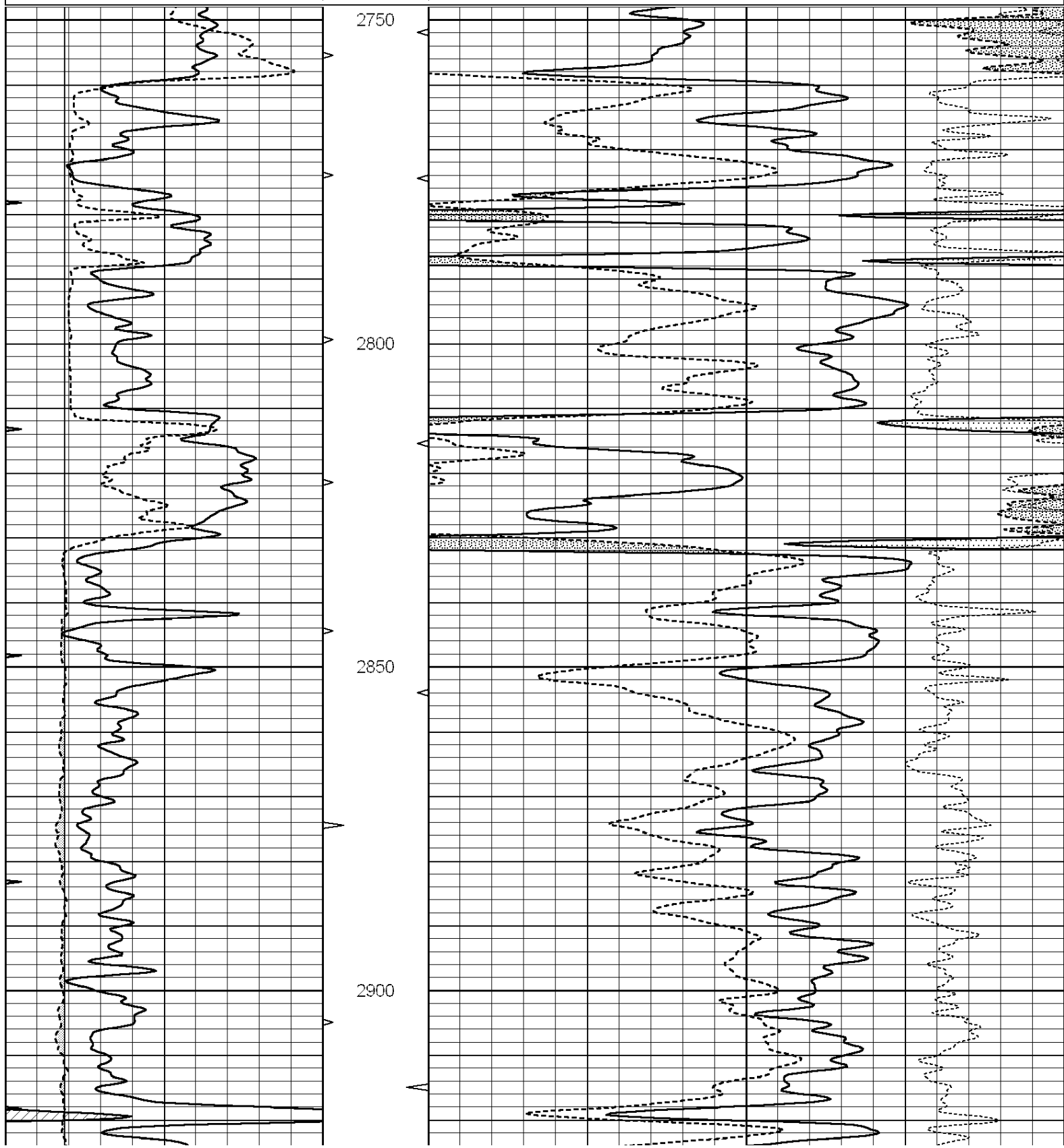


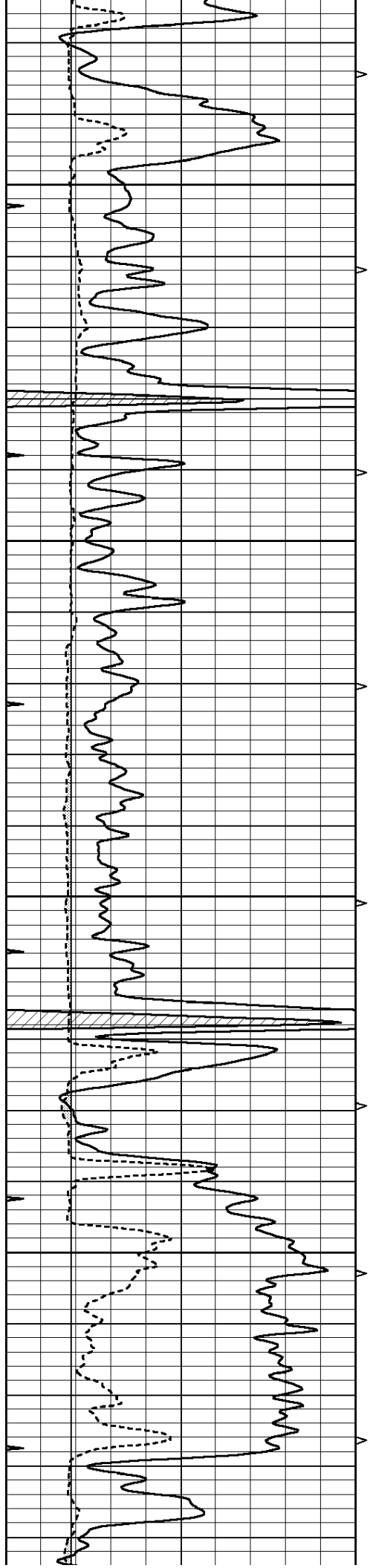
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MAIN SECTION

Database File: 007418ddn.db
Dataset Pathname: pass3.1
Presentation Format: _den_neu
Dataset Creation: Sun Aug 21 02:07:52 2011 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		



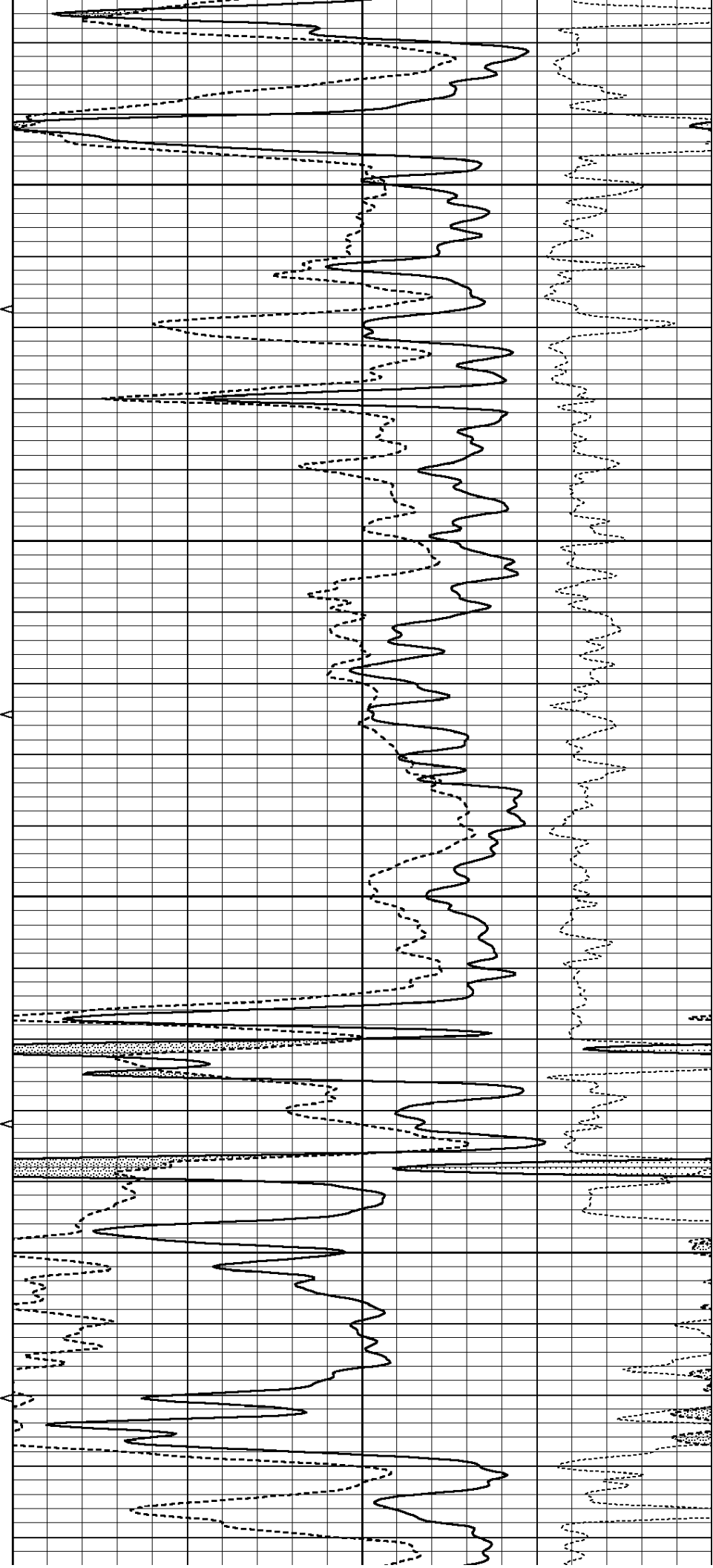


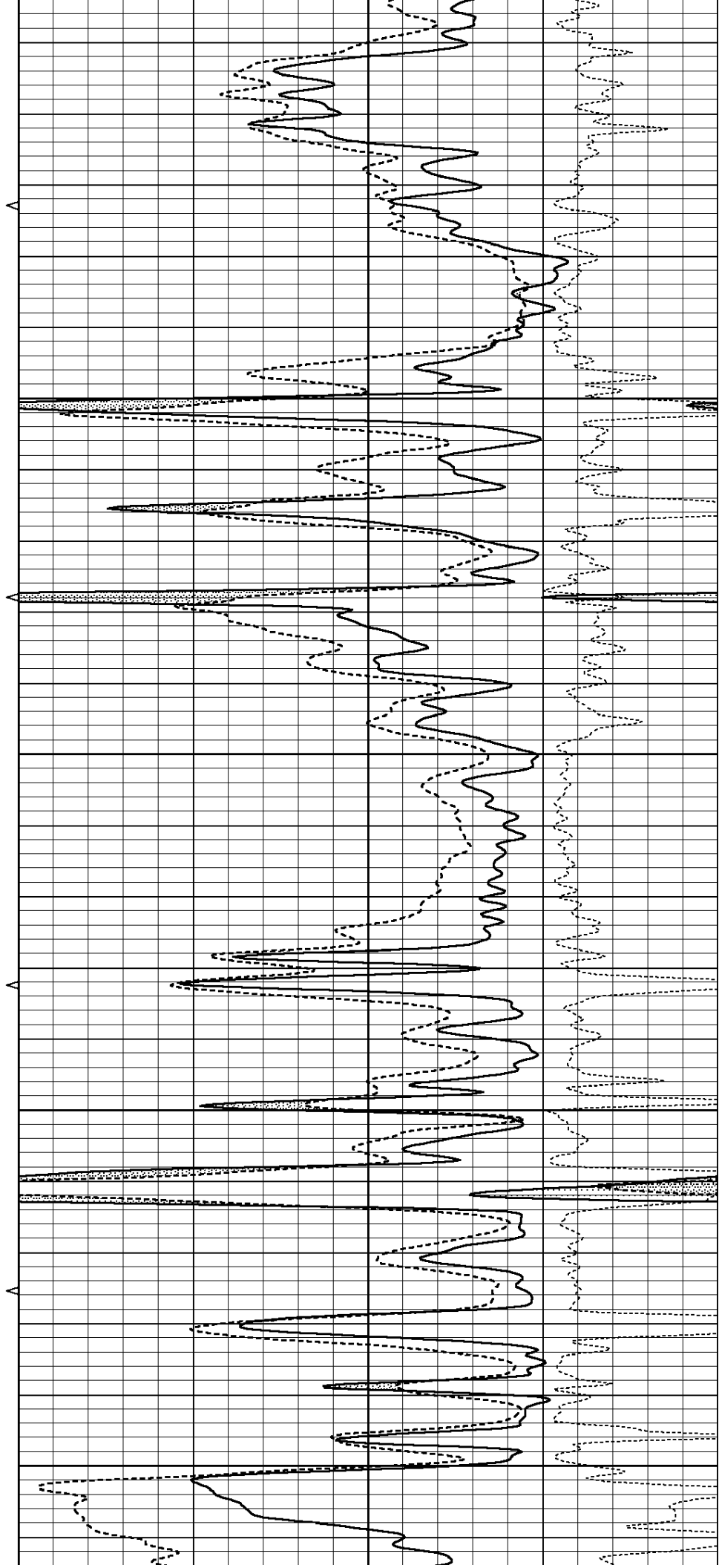
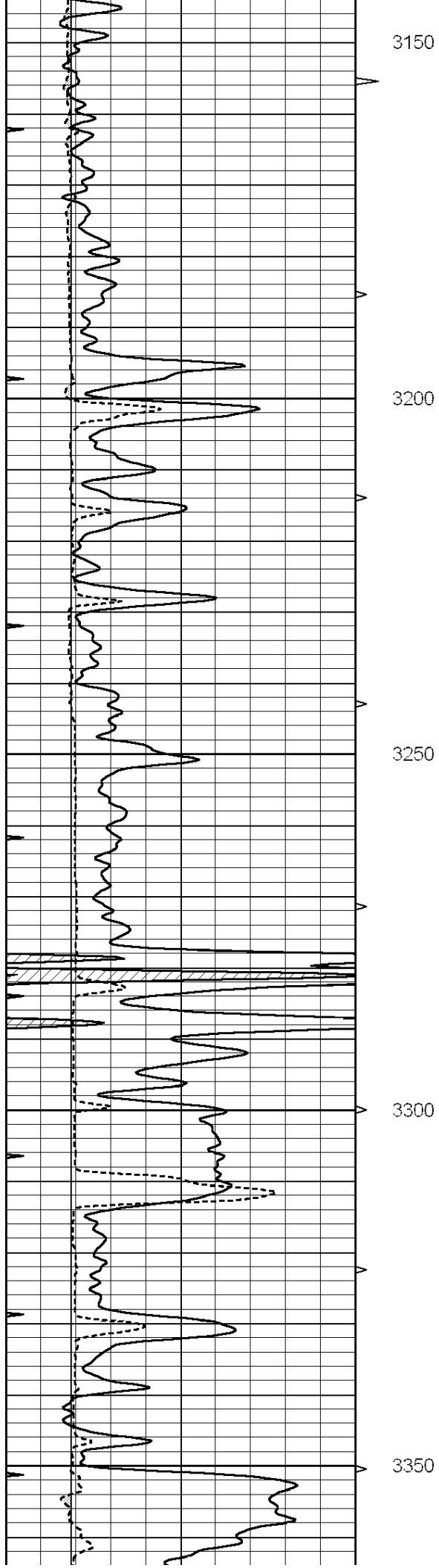
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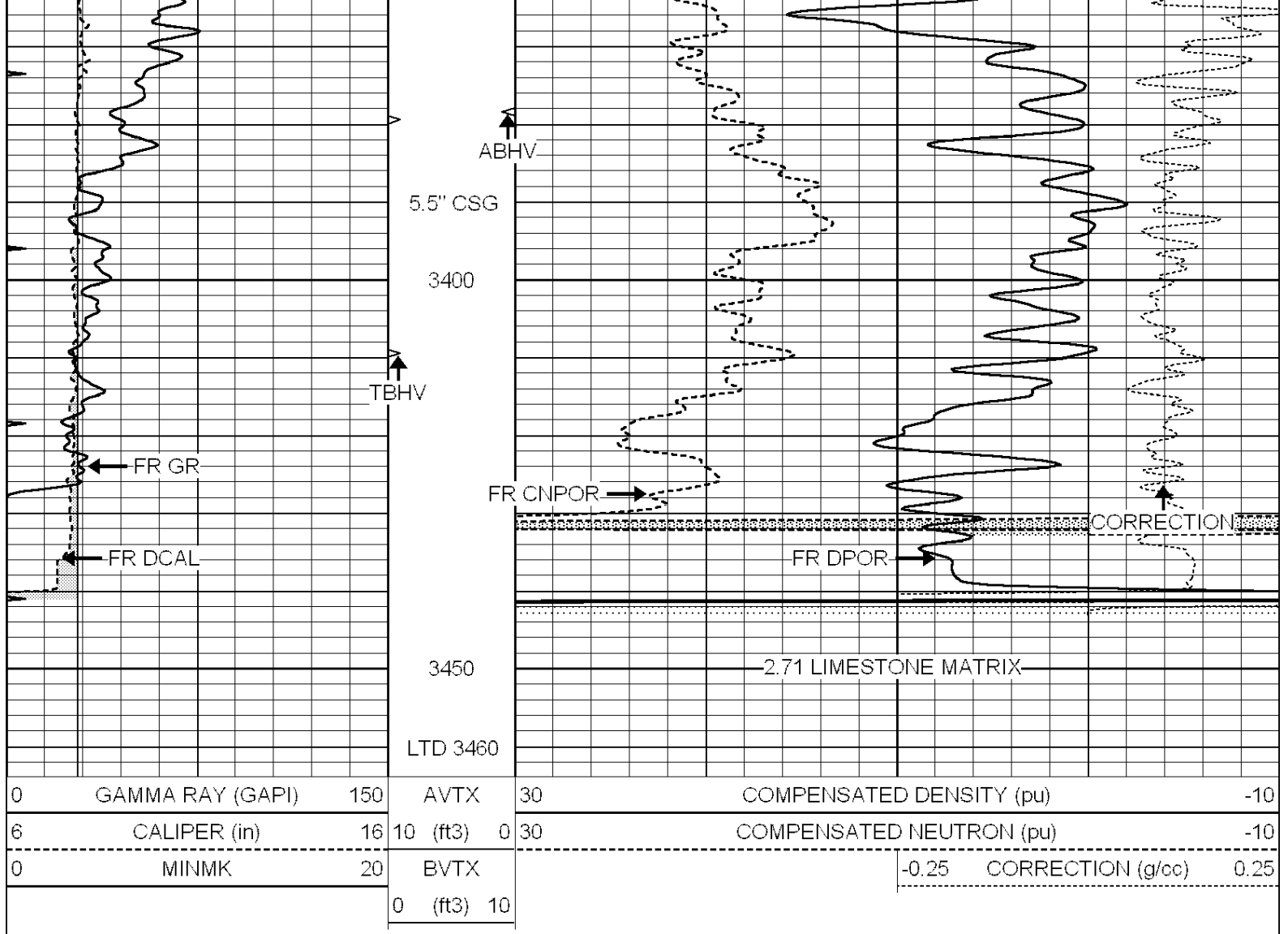
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3050

3100





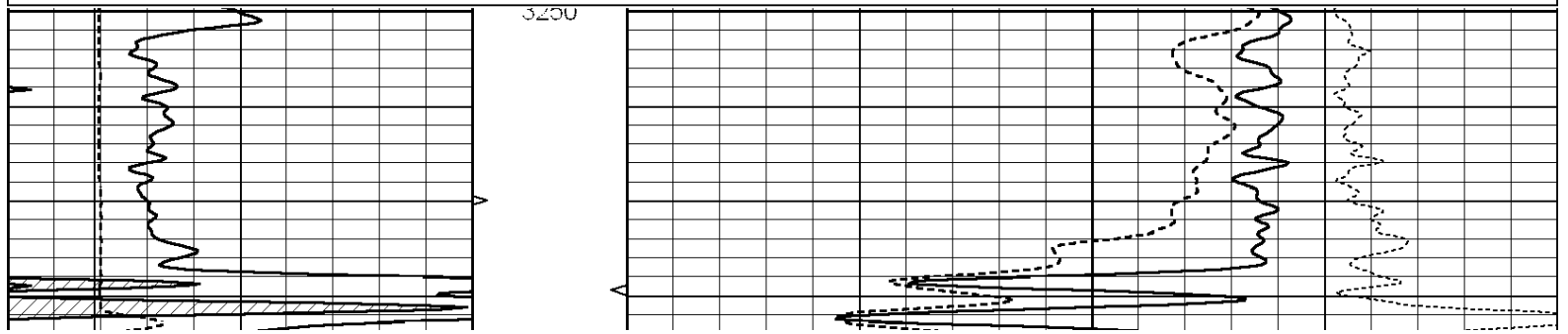


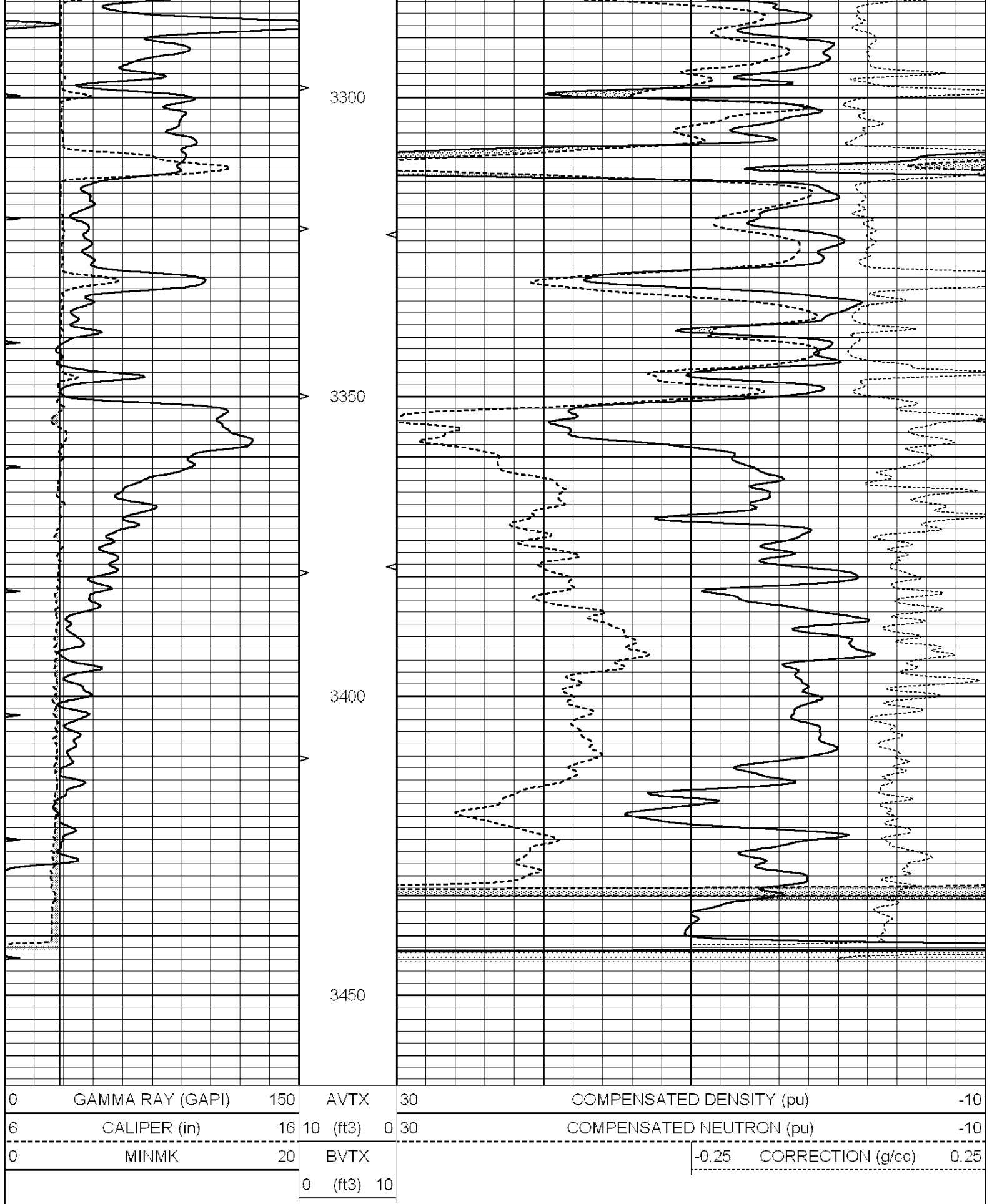
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REPEAT SECTION

Database File: 007418ddn.db
 Dataset Pathname: pass2.1
 Presentation Format: _den_neu
 Dataset Creation: Sun Aug 21 01:58:51 2011 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: 007418ddn.db
 Dataset Pathname: pass2.1
 Dataset Creation: Sun Aug 21 01:58:51 2011 by Cole Chen Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Wed Jul 30 06:14:24 2008
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008
 After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	621.923	8.759
Medium	0.039	0.728	V	0.000	464.000	mmho/m	673.322	-26.058
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration

Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	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		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Compensated Density Calibration Report

Serial-Model: GEAR4-GEARHART
 Source / Verifier: 143 / 143
 Master Calibration Performed: Sat Jul 16 17:35:04 2011

Master Calibration

	Density			Far Detector	Near Detector		
Magnesium	1.710	g/cc		1015.91	497.51	cps	
Aluminum	2.600	g/cc		227.67	350.20	cps	
Spine Angle = 76.79				Density/Spine Ratio = 0.579			
	Size			Reading			
Small Ring	8.00	in		2.55	V		
Large Ring	14.00	in		4.36	V		

Compensated Neutron Calibration Report

Serial Number: 6I
 Tool Model: G

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:	#8				
Tool Model:	OPEN				
Performed:	Mon Jun 13 16:56:43 2011				
Calibrator Value:	150.0		GAPI		
Background Reading:	0.0		cps		
Calibrator Reading:	175.0		cps		
Sensitivity:	0.8371		GAPI/cps		