



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY/NEUTRON LOG

Company	MAI OIL OPERATIONS, INC.	Company	MAI OIL OPERATIONS, INC.
Well	SCHMITT #4	Well	SCHMITT #4
Field	KENNEBEC	Field	KENNEBEC
County	RUSSELL	County	RUSSELL
State	KANSAS	State	KANSAS
Location:	SEC 4 TWP 15S RGE 14W	API # : 15-167-23829-0000	Other Services DIL/MEL
Permanent Datum	GROUND LEVEL	Elevation	1762
Log Measured From	KELLY BUSHING 8' A.G.L.	K.B. 1770	
Drilling Measured From	KELLY BUSHING	D.F. 1768	
		G.L. 1762	
Date	10/19/12		
Run Number	ONE		
Depth Driller	3295		
Depth Logger	3293		
Bottom Logged Interval	3269		
Top Log Interval	2200		
Casing Driller	8 5/8" @ 473		
Casing Logger	470		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5000 PPM	
Density / Viscosity	9.5/49		
pH / Fluid Loss	9.0/9.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.80 @ 55F		
Rmf @ Meas. Temp	.60 @ 55F		
Rmc @ Meas. Temp	.96 @ 55F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.40 @ 110F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	110F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
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 (785) 628-6395
DIRECTIONS
RUSSELL KS. - S. TO WALTERS LANE - 1 1/8 W. - S. INTO

Database File:

009978ddn.db

Dataset Pathname:

pass3.1

Presentation Format:

_den_neu

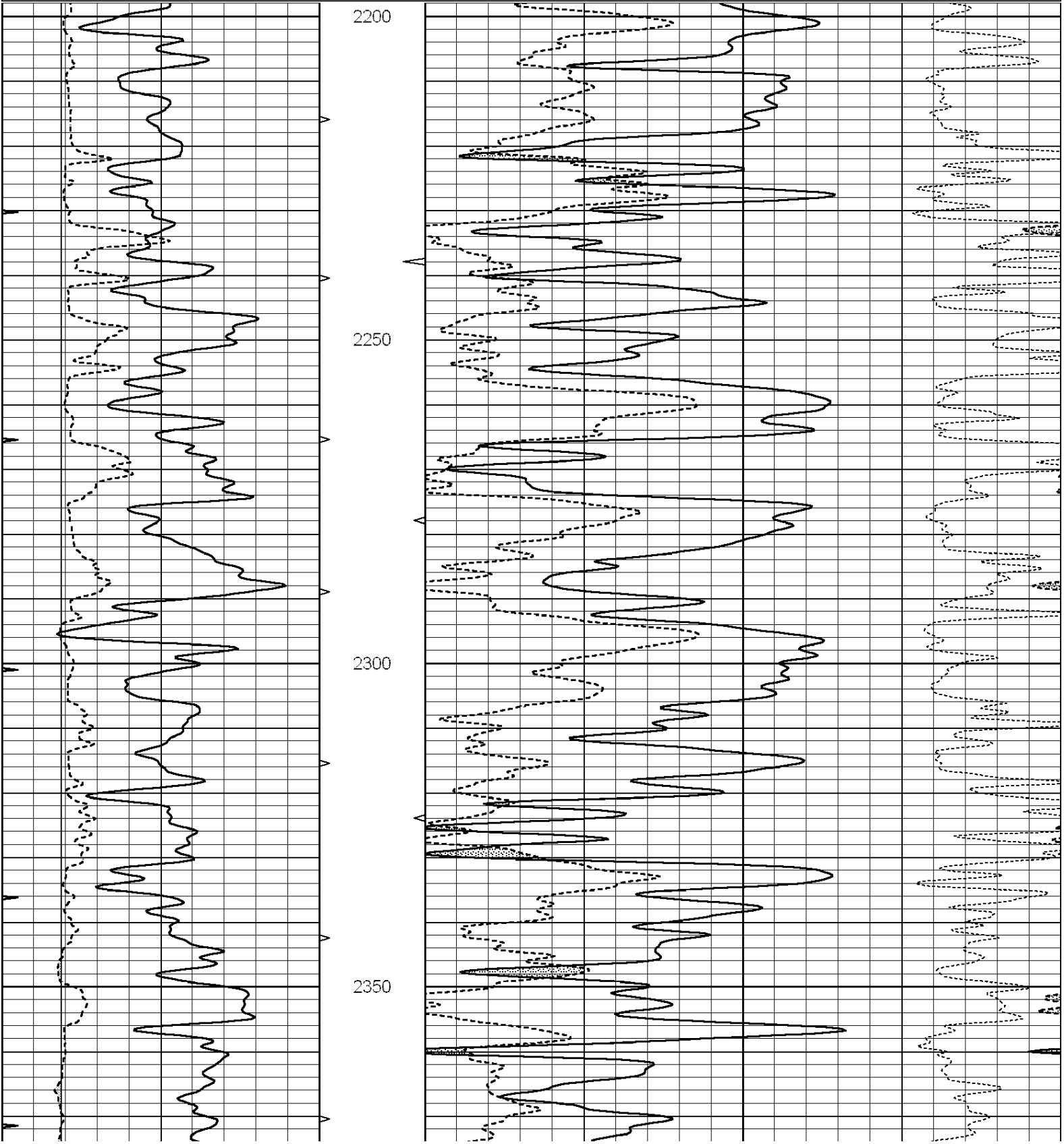
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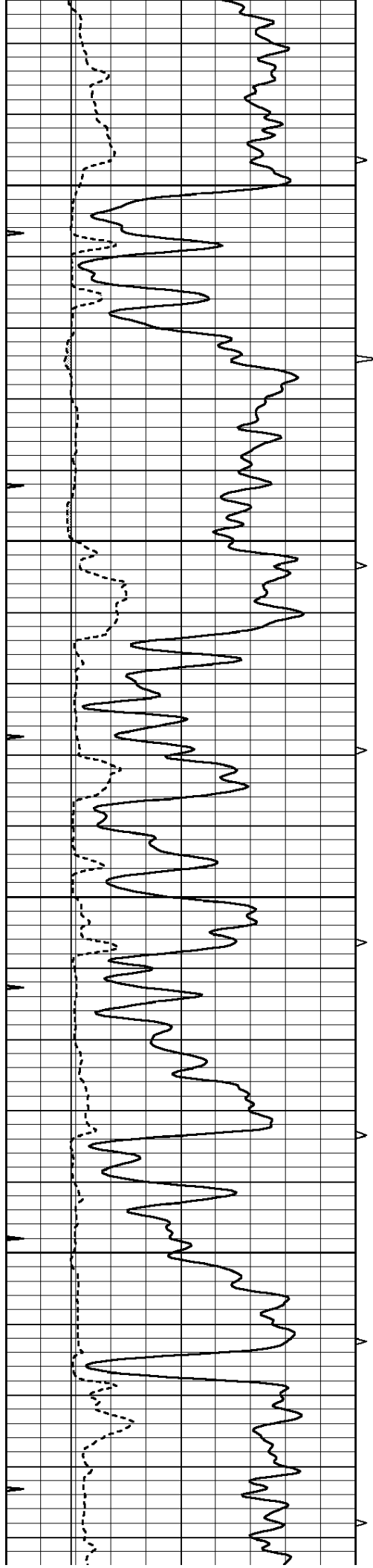
Fri Oct 19 09:28:42 2012 by Calc Open-Cased 090629

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		



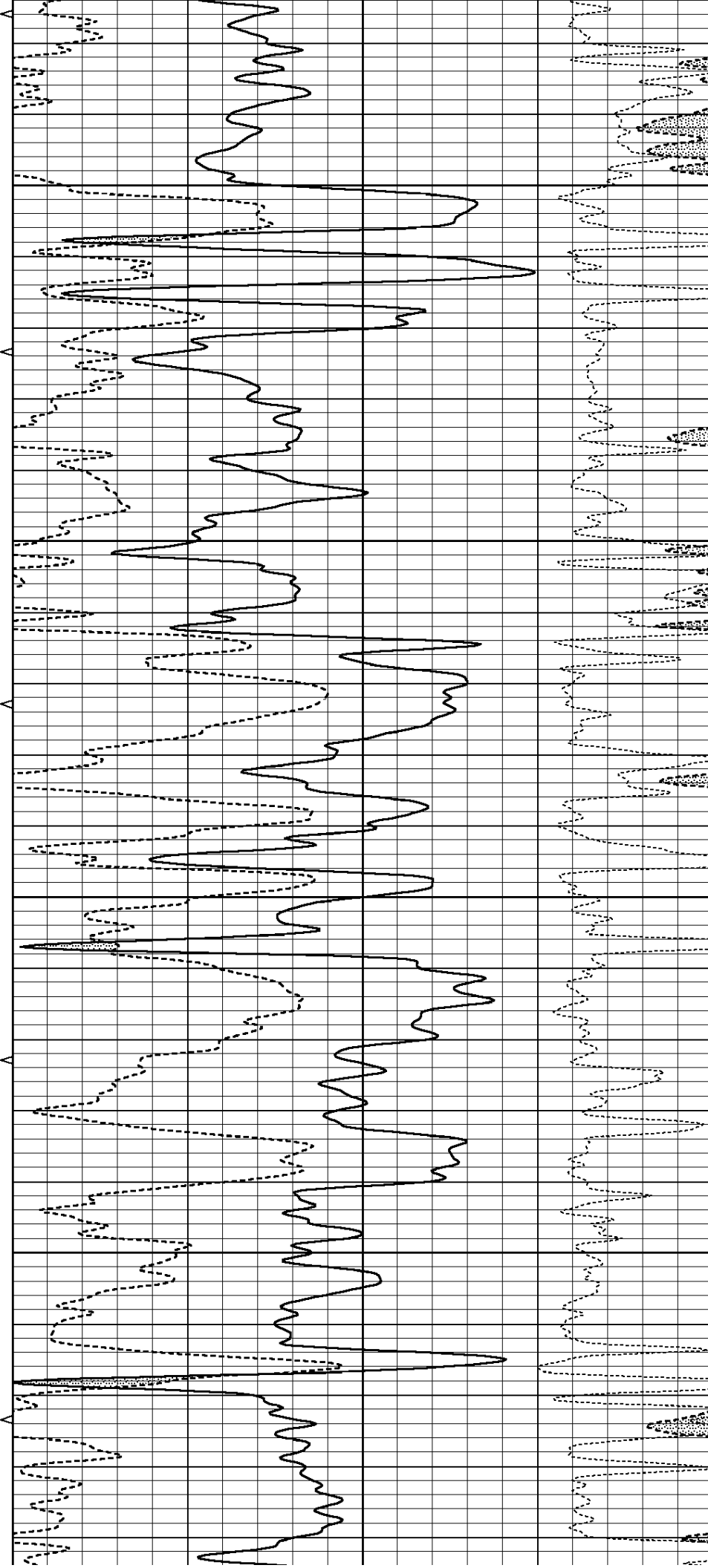


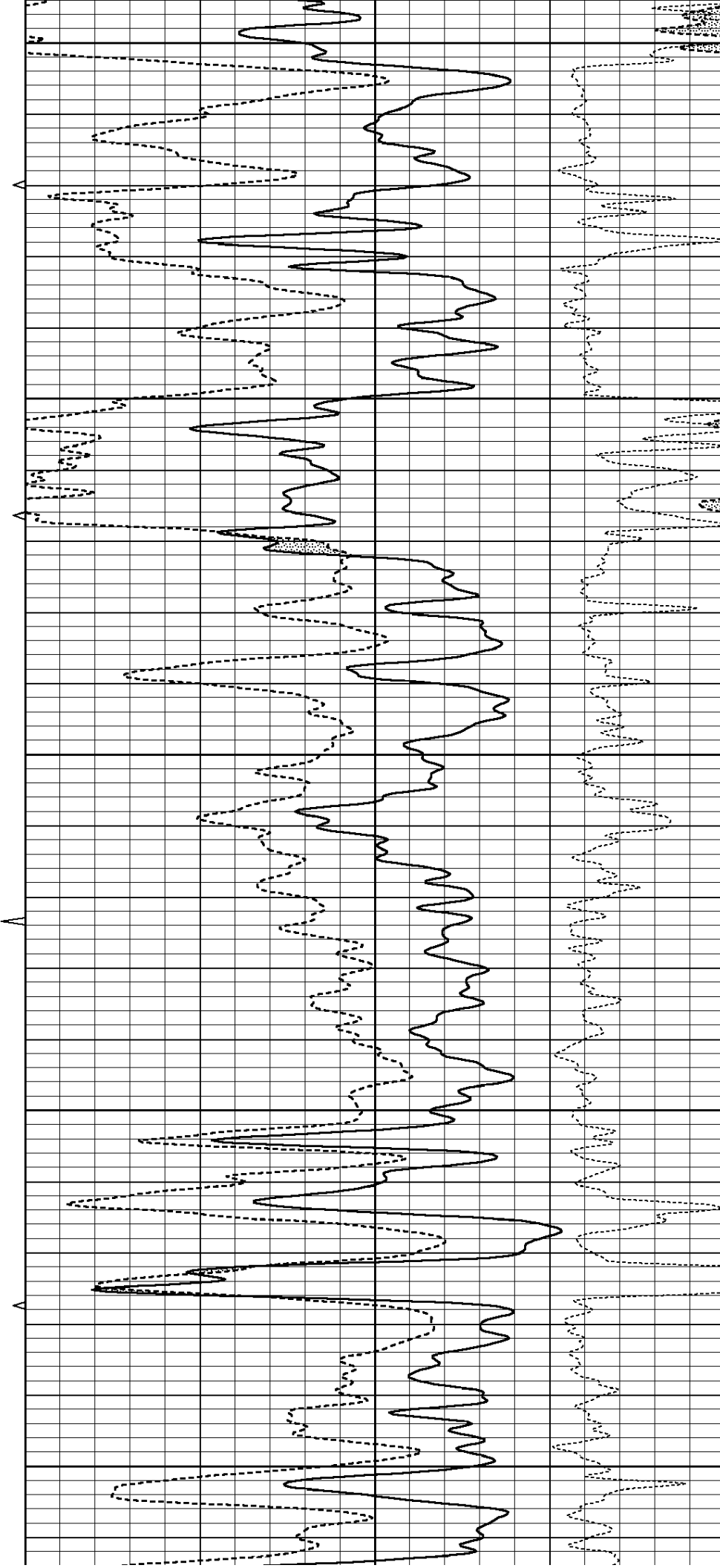
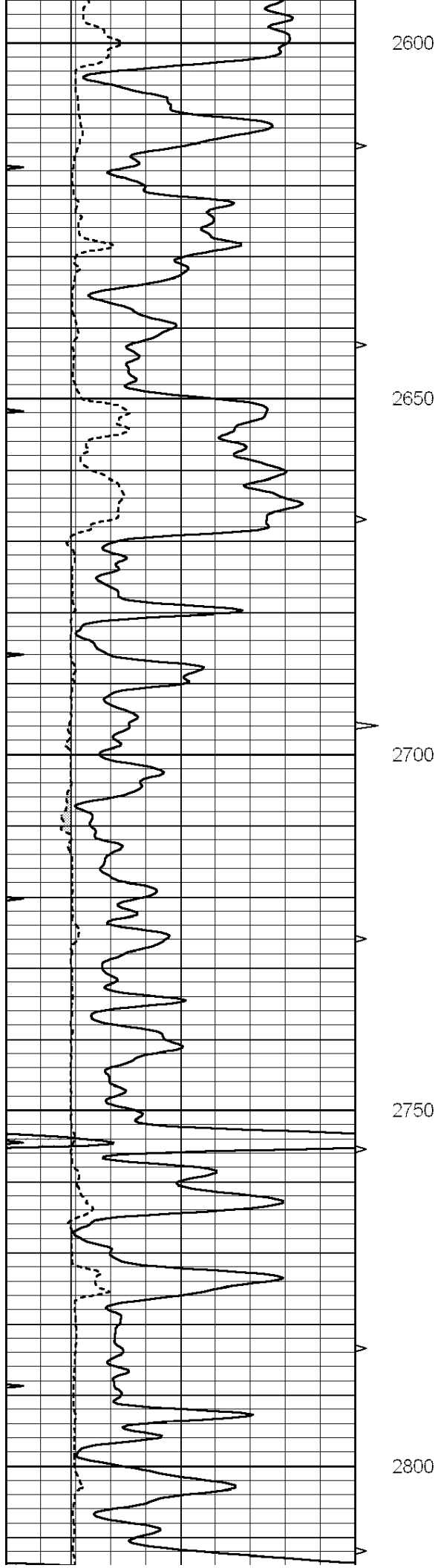
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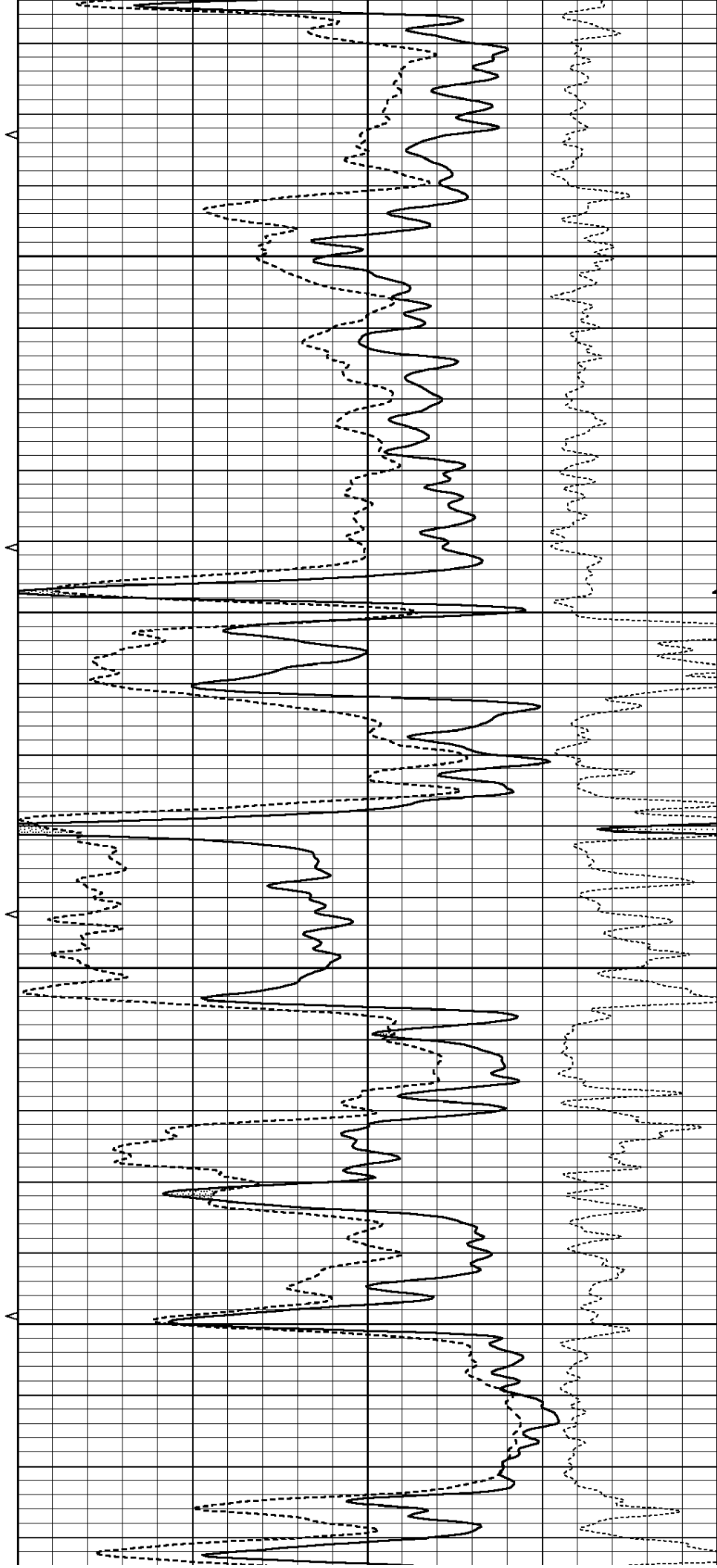
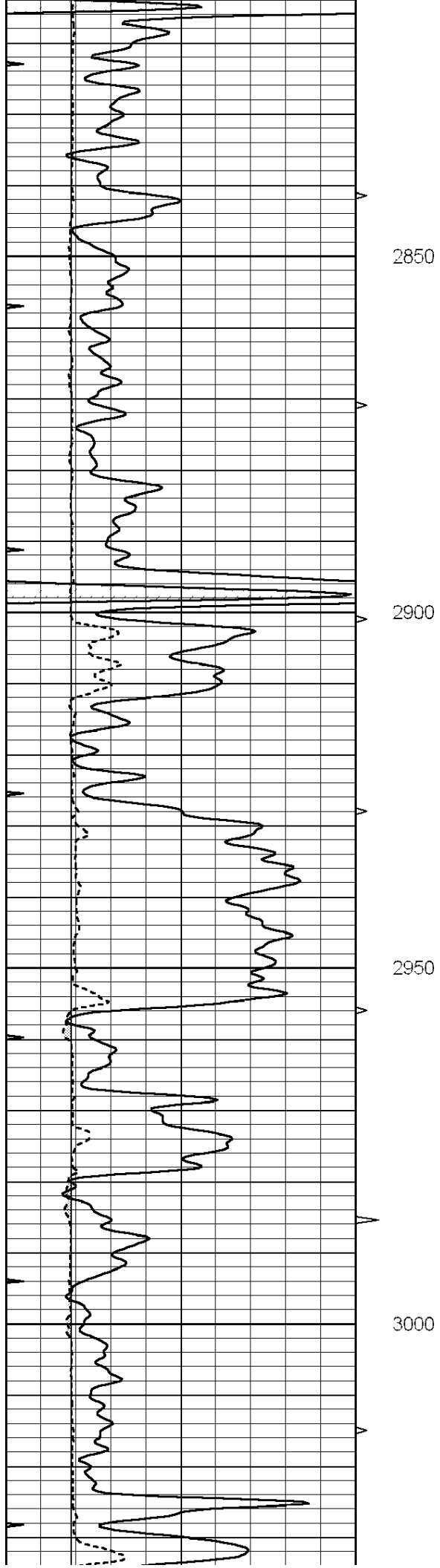
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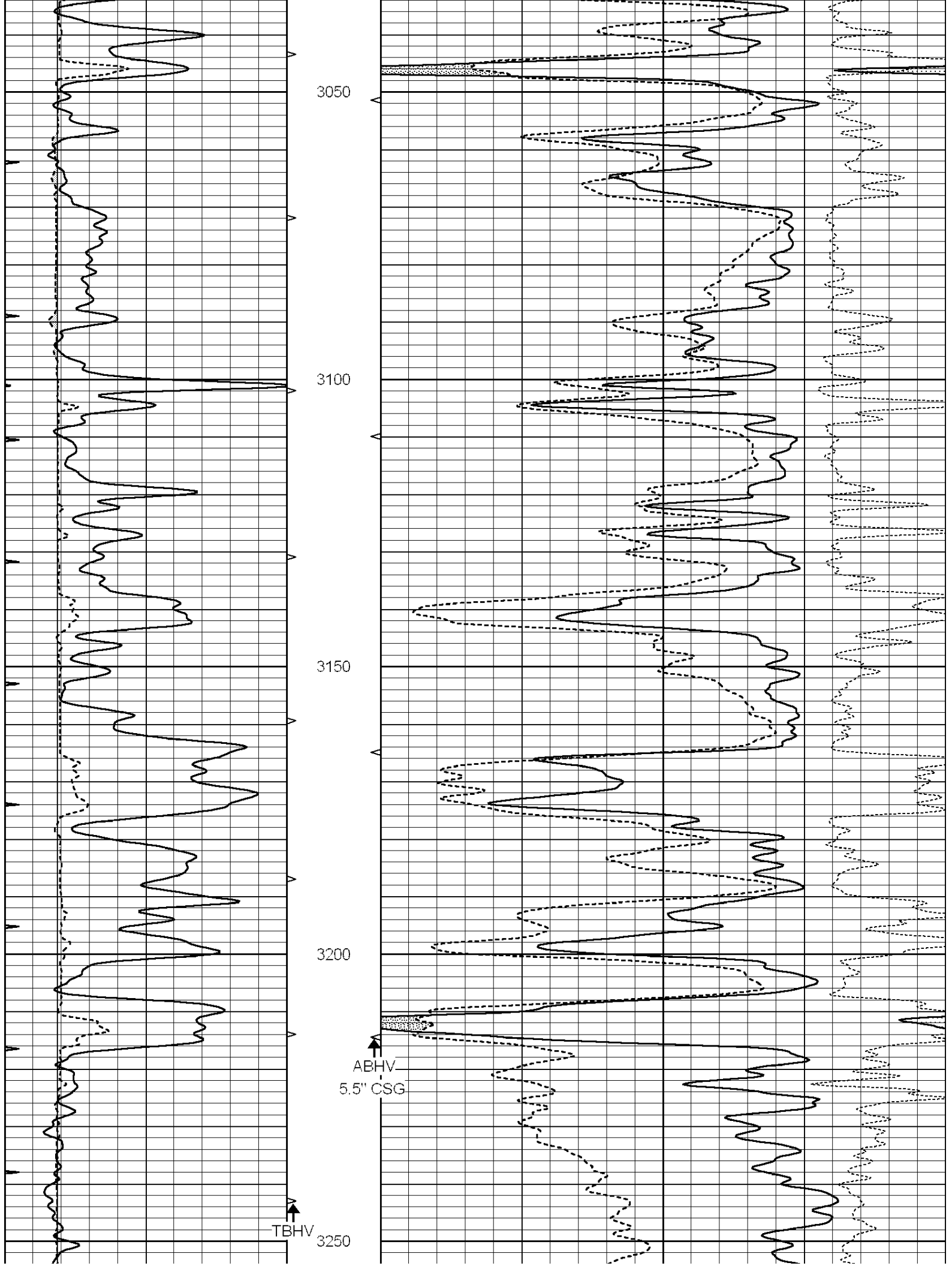
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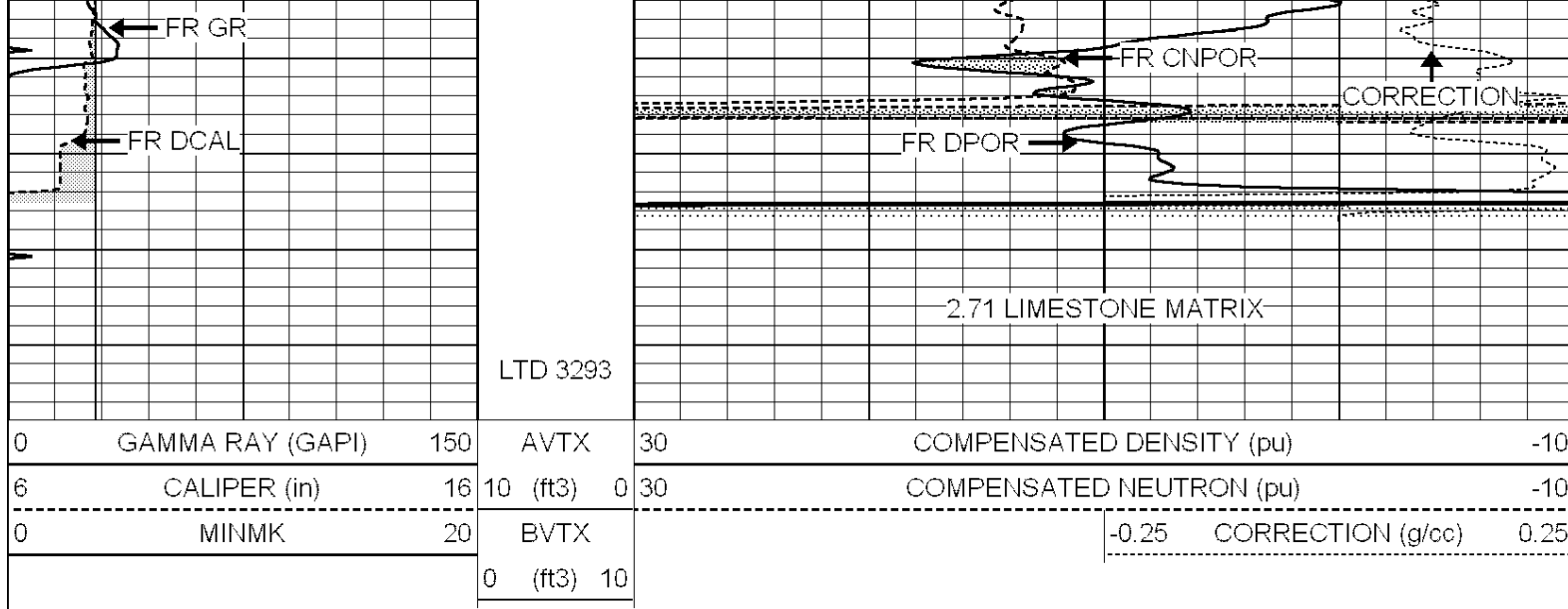
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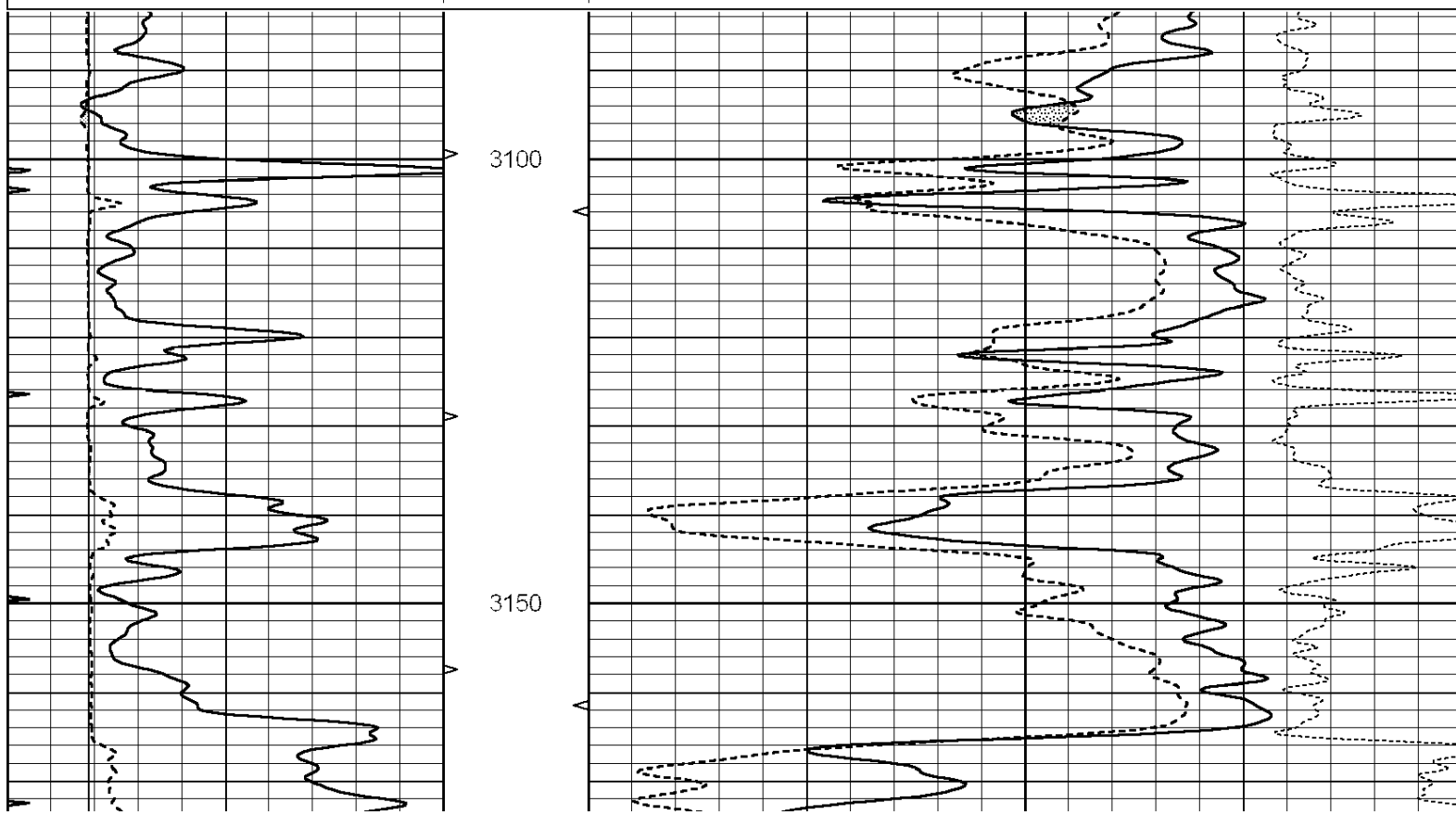
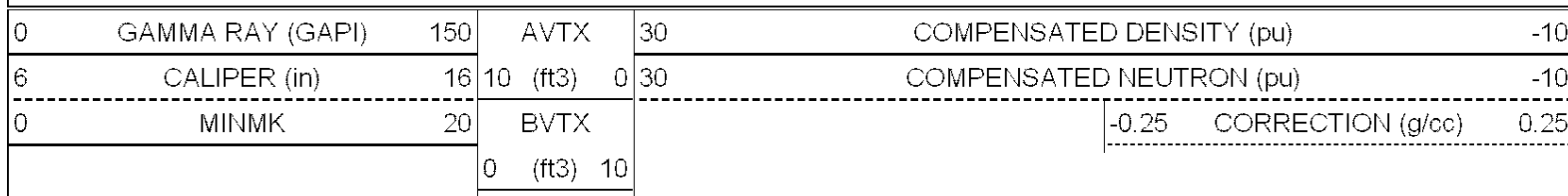


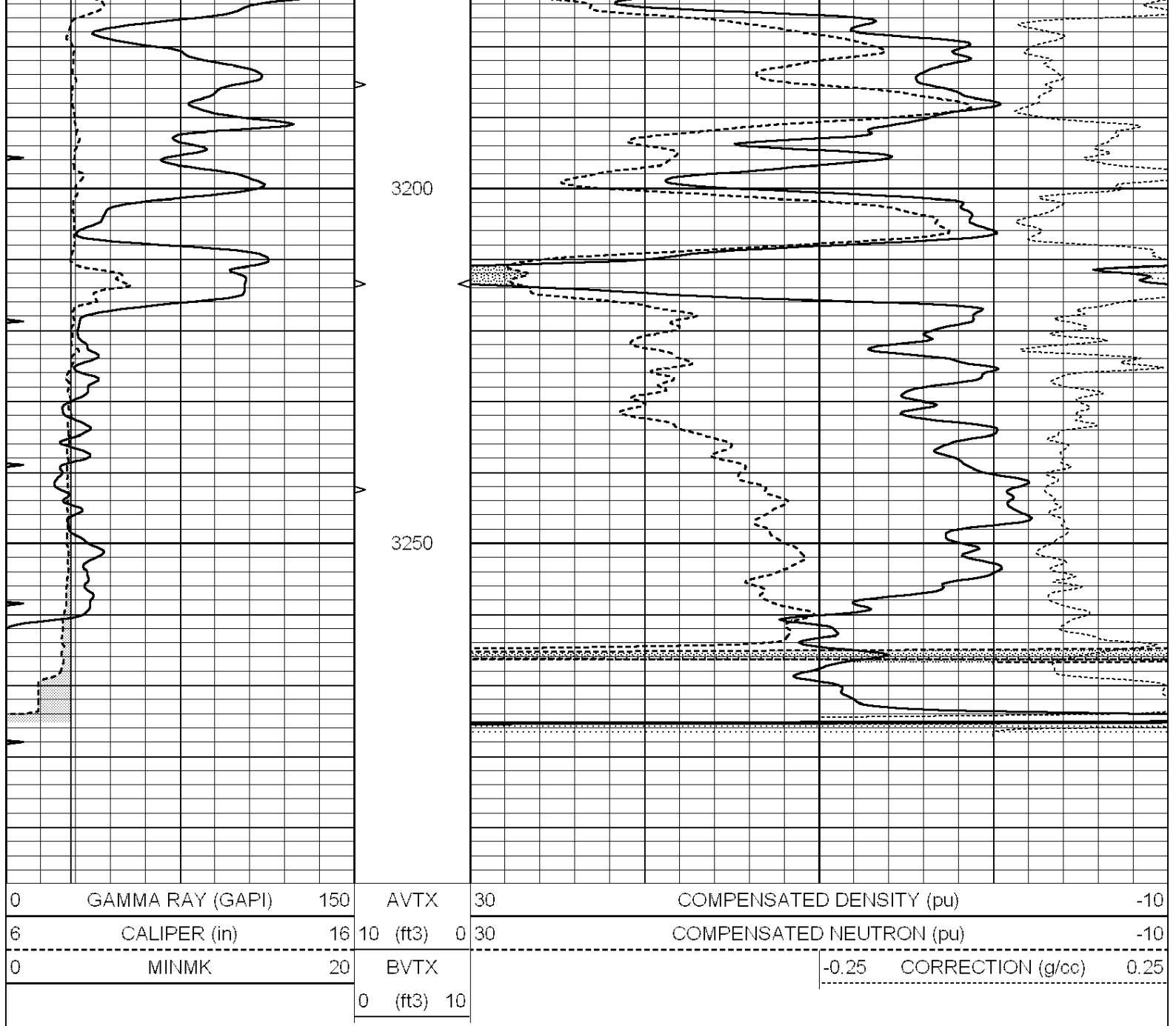


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REPEAT SECTION

Database File: 009978ddn.db
 Dataset Pathname: pass2.1
 Presentation Format: _den_neu
 Dataset Creation: Fri Oct 19 09:11:05 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240





Calibration Report								
Database File:		009978ddn.db						
Dataset Pathname:		pass3.1						
Dataset Creation:		Fri Oct 19 09:28:42 2012 by Calc Open-Cased 090629						
Dual Induction Calibration Report								
Serial-Model:		PROBE8-DILG						
Surface Cal Performed:		Fri Aug 01 06:33:19 2008						
Downhole Cal Performed:		Mon Jul 28 11:08:27 2008						
After Survey Verification Performed:		Mon Jul 28 11:08:27 2008						
Surface Calibration								
		Readings		References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
Internal:	Zero	Cal		Zero	Cal		m	b

Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739
Downhole Calibration								
			Readings		References		Results	
			Zero	Cal	Zero	Cal	m'	b'
Deep	0.000	0.000	mmho/m		2.011	405.777	mmho/m	1.000
Medium	0.000	0.000	mmho/m		7.590	503.393	mmho/m	1.000
LL3		7.500	V			1500.000	Ohm-m	
		0.000	V			20.000	Ohm-m	
		-7.200	V			3800.000	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
Medium	0.000	0.000	mmho/m		0.000	0.000	mmho/m	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:			Mon Mar 19 19:07:19 2012			
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		3.21	V	
Large Ring	14.00	in		5.46	V	

Compensated Neutron Calibration Report								
Serial Number:					6I			
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:			#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				

