



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company		RAYMOND OIL COMPANY, INC.	
Well		#1 JOAN DEEDS	
Field		WILDCAT	
County		SHERMAN	
State		KANSAS	
Location:		API # : 15-181-20599-0000 1582' FNL & 787' FEL	
SEC 9 TWP 6S RGE 37W		Other Services DIL/MEL SONIC	
Permanent Datum		GROUND LEVEL Elevation 3395	
Log Measured From		KELLY BUSHING 5' A.G.L.	
Drilling Measured From		KELLY BUSHING	
Date		9/26/14	
Run Number		ONE	
Depth Driller		5030	
Depth Logger		5030	
Bottom Logged Interval		5006	
Top Log Interval		3800	
Casing Driller		8 5/8" @ 303	
Casing Logger		304	
Bit Size		7 7/8	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.4/5.1	
pH / Fluid Loss		9.0/10.8	
Source of Sample		FLOWLINE	
Rim @ Meas. Temp		.80 @ 85F	
Rmf @ Meas. Temp		.60 @ 85F	
Rmc @ Meas. Temp		.96 @ 85F	
Source of Rmf / Rmc		MEASURED	
Rim @ BHT		.54 @ 125F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom			
Maximum Recorded Temperature		125F	
Equipment Number		3802	
Location		HAYS, KS.	
Recorded By		JASON CAPPELLUCCI	
Witnessed By		KIM SHOEMAKER	

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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 NABORS COMPLETION & PRODUCTION SVCS. (785) 628-6395

DIRECTIONS: BREWSTER, KS - NORTH TO COUNTY LINE (WHERE BLKTOP ENDS)
3 WEST - 1 SOUTH - 1 WEST - SOUTH & WEST INTO

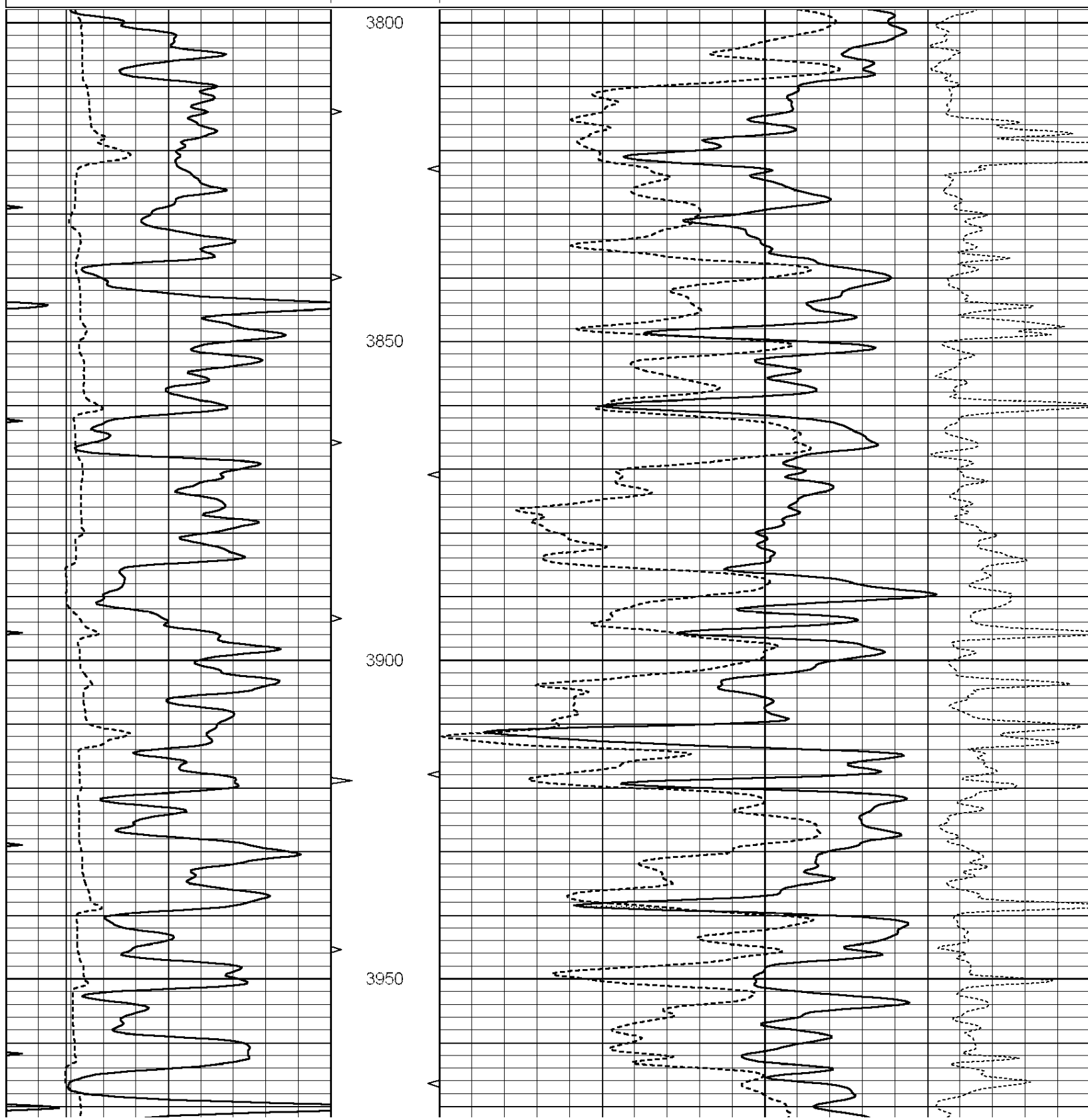


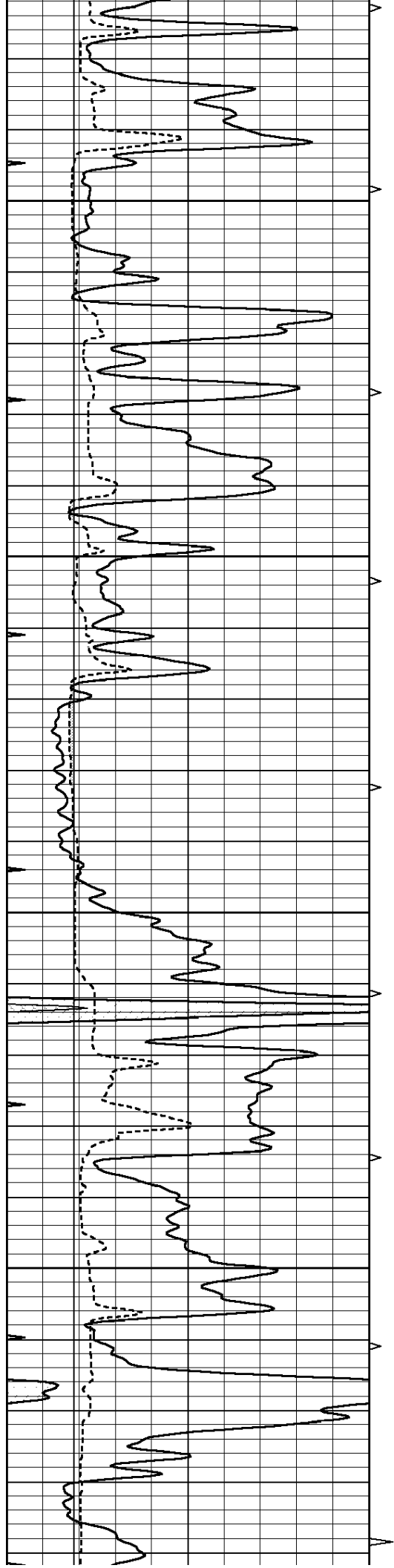
**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File: 26225ddn.db
 Dataset Pathname: pass5.1
 Presentation Format: _den_neu
 Dataset Creation: Fri Sep 26 16:17:51 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			



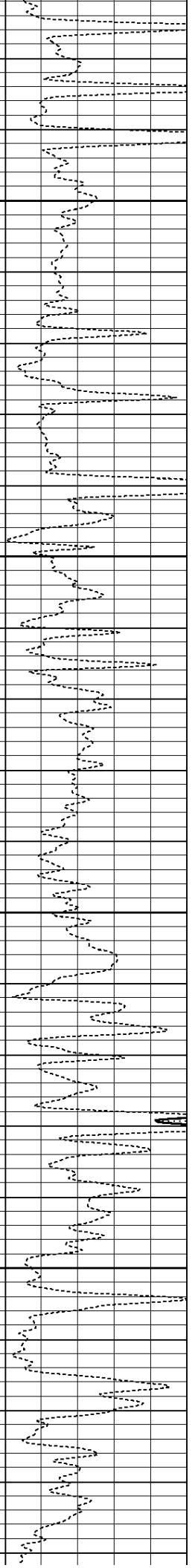
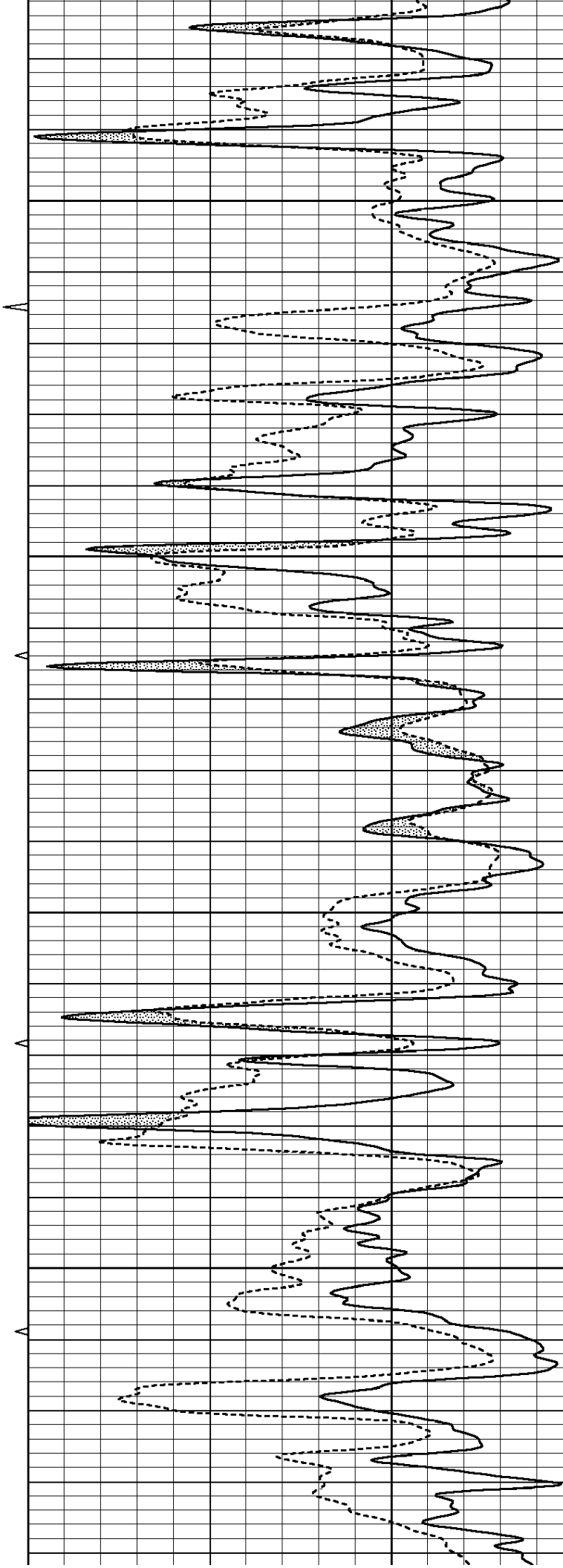


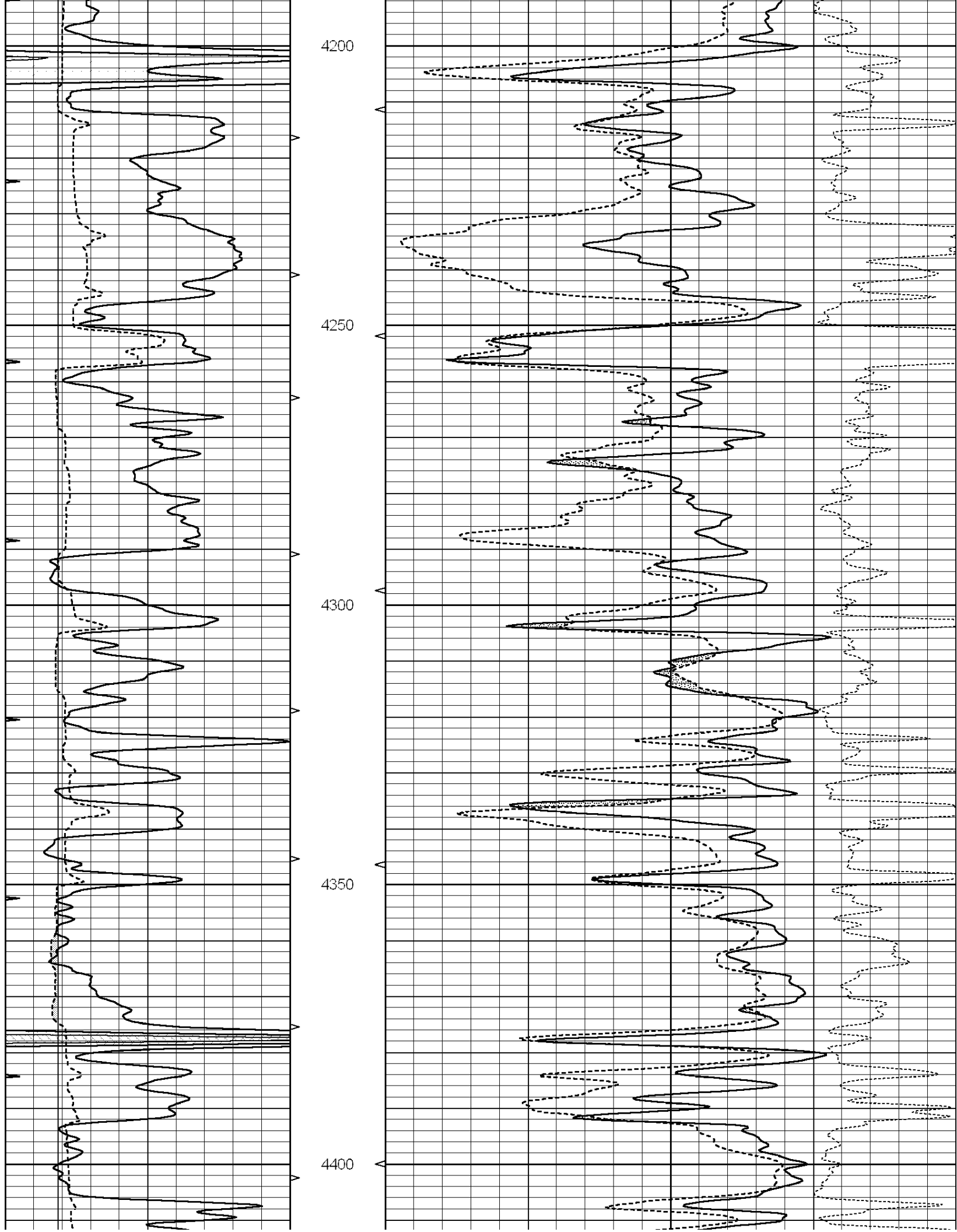
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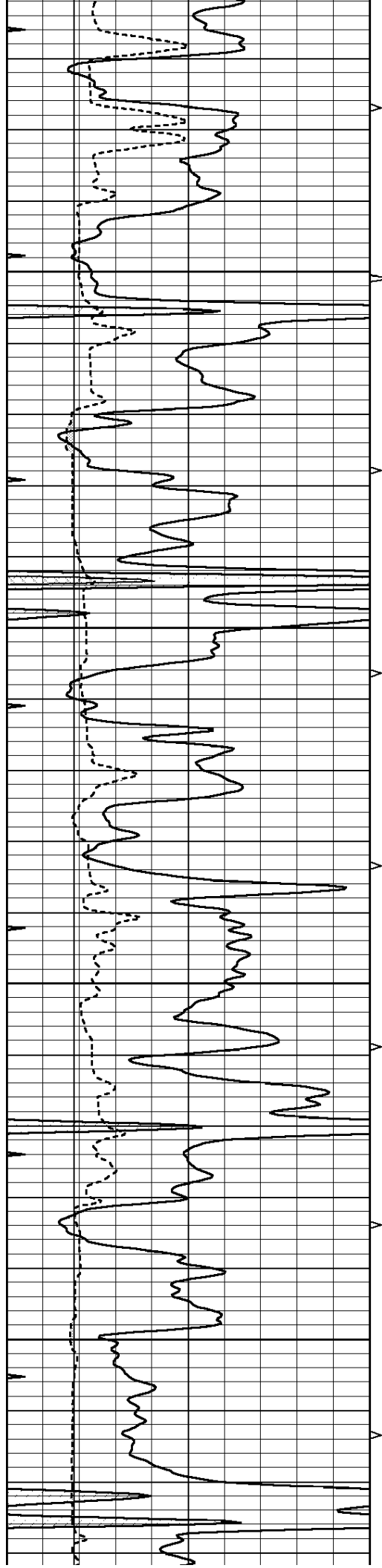
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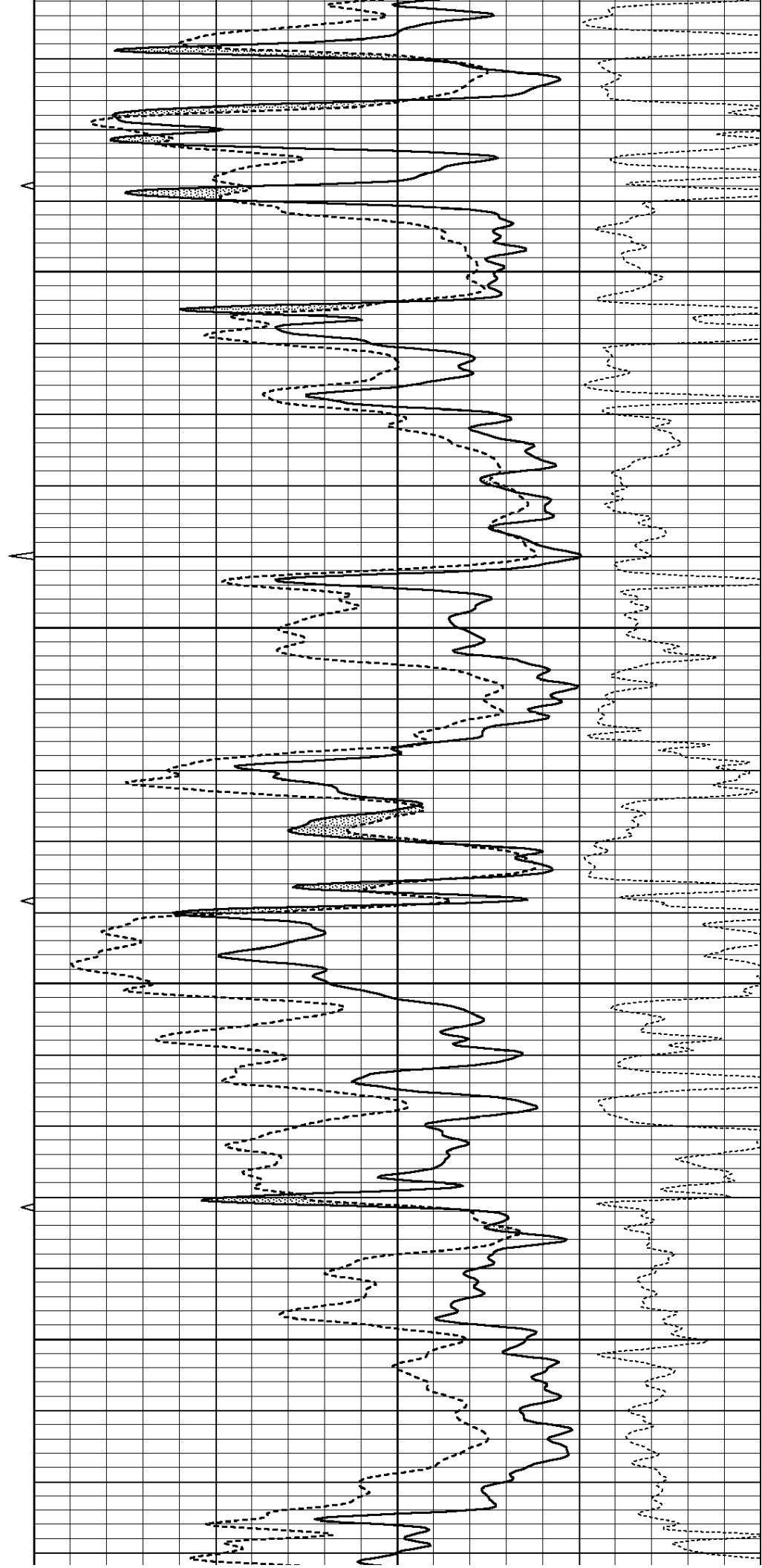


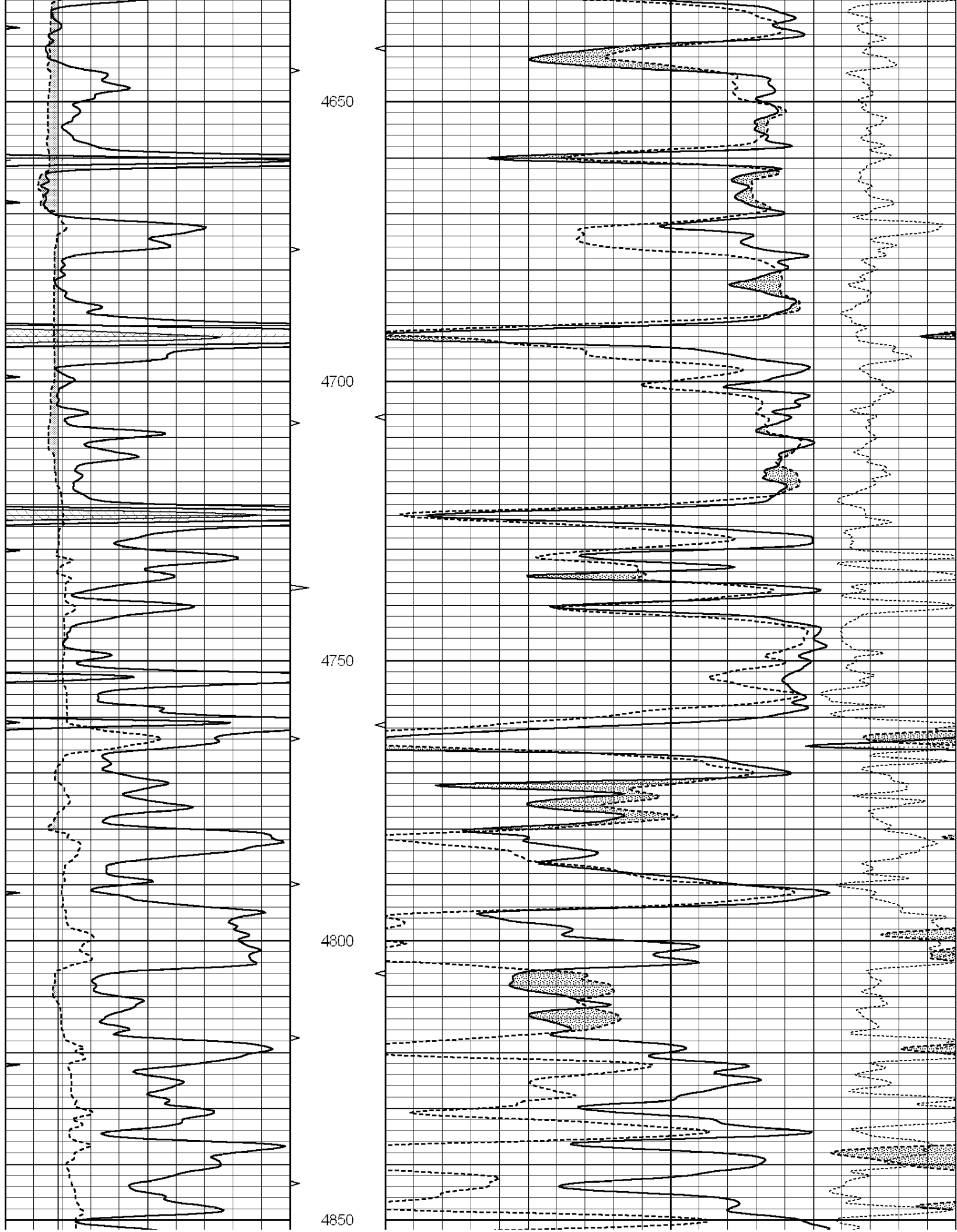
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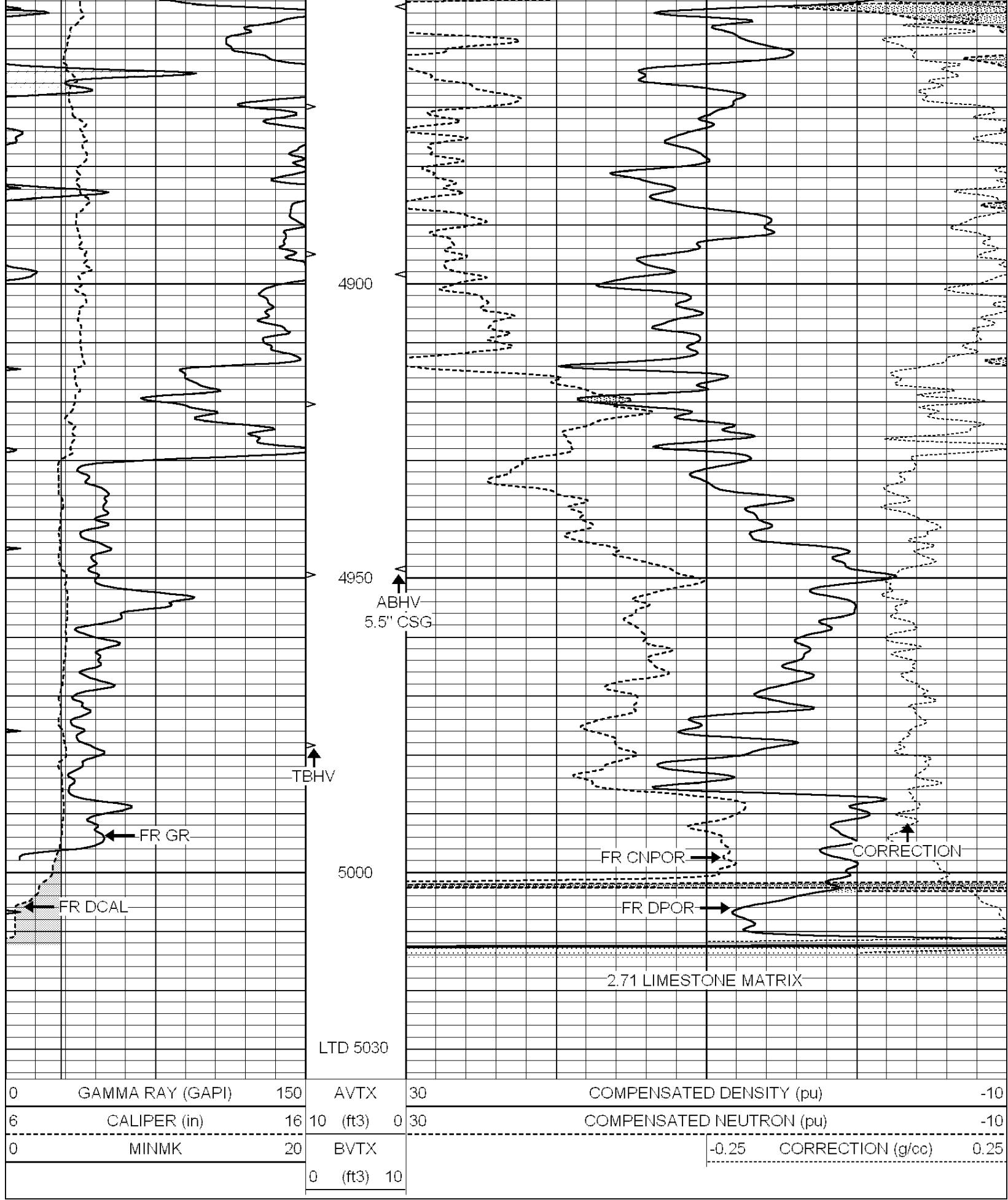
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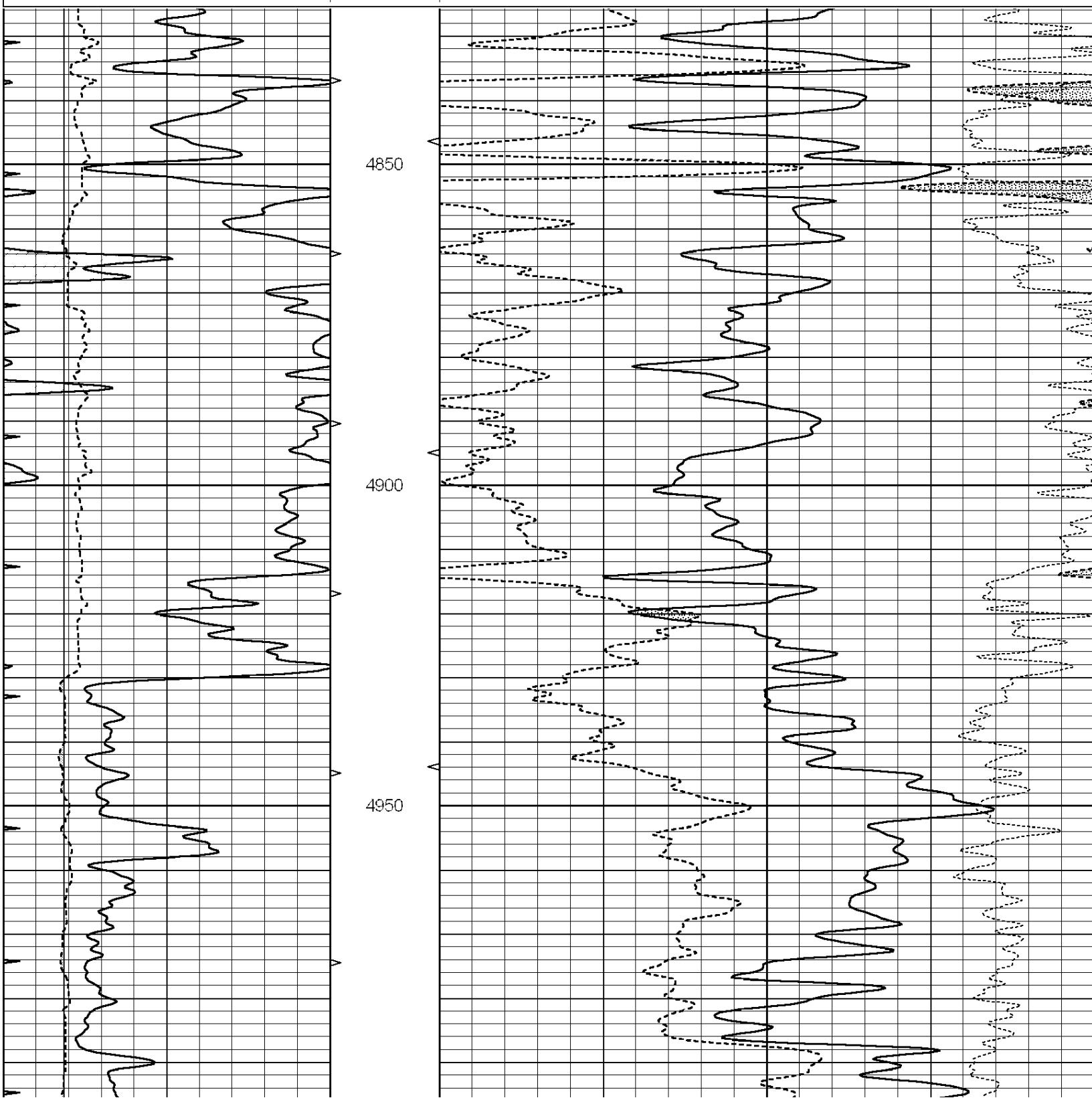


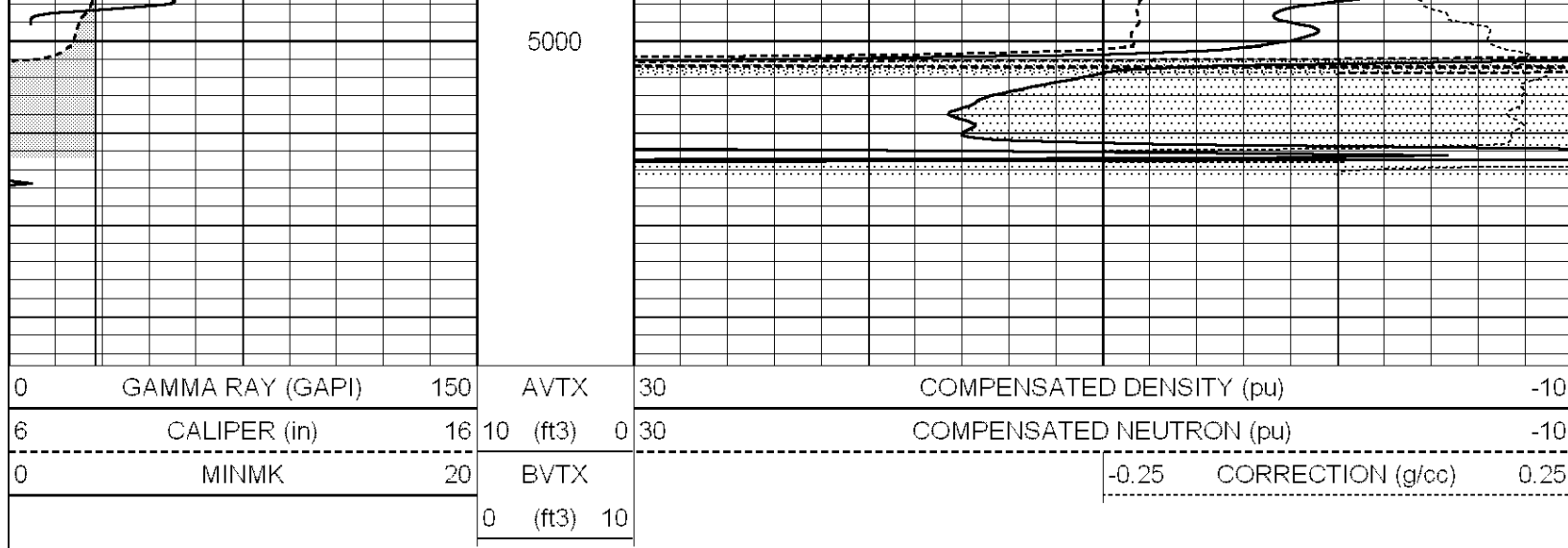




Database File: 26225ddn.db
 Dataset Pathname: pass4.1
 Presentation Format: _den_neu
 Dataset Creation: Fri Sep 26 16:04:18 2014 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

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:	26225ddn.db		
Dataset Pathname:	pass4.1		
Dataset Creation:	Fri Sep 26 16:04:18 2014 by Calc Open-Cased 090629		

Dual Induction Calibration Report			
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Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Tue Sep 02 02:19:29 2014
Downhole Cal Performed:	Tue Sep 02 01:11:23 2014
After Survey Verification Performed:	Tue Sep 02 01:28:35 2014

Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.593	0.593	V	0.000	400.000	mmho/m	620.000	-7.000
Medium	0.668	0.668	V	0.000	464.000	mmho/m	630.000	-44.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.030	0.644	V	0.000	400.000	mmho/m	651.380	-19.739
Medium	0.027	0.815	V	0.000	464.000	mmho/m	588.755	-16.048

Downhole Calibration								
Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	3353890.000	-304691.000	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	16235500.000	-3735510.000	mmho/m	1.000	0.000
LL3		2.500	V		1400.000	Ohm-m		
		0.022	V		20.000	Ohm-m		
		-7.278	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		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			
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Serial-Model:
Source / Verifier:
Master Calibration Performed:

GEAR5-GEARHART
147 / 147
Tue Sep 02 02:18:22 2014

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	943.83	576.01	cps
Aluminum	2.600	g/cc	212.01	399.19	cps
Spine Angle = 76.20			Density/Spine Ratio = 0.579		
	Size		Reading		
Small Ring	8.00	in	1.77	V	
Large Ring	14.00	in	2.90	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:	Tue Sep 02 02:32:49 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2600	GAPI/cps