



**SUPERIOR  
Hays,  
Kansas**

**COMPENSATED  
DENSITY  
NEUTRON LOG**

Company DAYSTAR PETROLEUM, INC.  
Well LINGO # 1-30  
Field WILDCAT  
County HODGEMAN  
State KANSAS

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Field WILDCAT  
County HODGEMAN State KANSAS

Location: API #: 15-083-21621  
1980' FNL & 2310' FEL  
SEC 30 TWP 22S RGE 22W  
Permanent Datum GROUND LEVEL Elevation 2328  
Log Measured From KELLY BUSHING 7' A.G.L.  
Drilling Measured From KELLY BUSHING  
Other Services  
DIL  
SONIC/MEL  
Elevation  
K.B. 2335  
D.F.  
G.L. 2328

Date	1-22-10		
Run Number	ONE		
Depth Driller	4675		
Depth Logger	4676		
Bottom Logged Interval	4652		
Top Log Interval	3750	2300 - 2900	
Casing Driller	312		
Casing Logger	NA		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2 / 59		
pH / Fluid Loss	9.5 / 7.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.60 @ 74F		
Rmf @ Meas. Temp	0.45 @ 74F		
Rmc @ Meas. Temp	0.72 @ 74F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.360 @ 122F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	3:30 P.M.		
Maximum Recorded Temperature	122F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	JOSH AUSTIN		

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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

SUPERIOR WELL SERVICES  
785-628-6395  
THANK YOU FOR YOUR BUSINESS  
DIRECTIONS: HANSTON, 3W, 2N, 1/2W, S INTO.

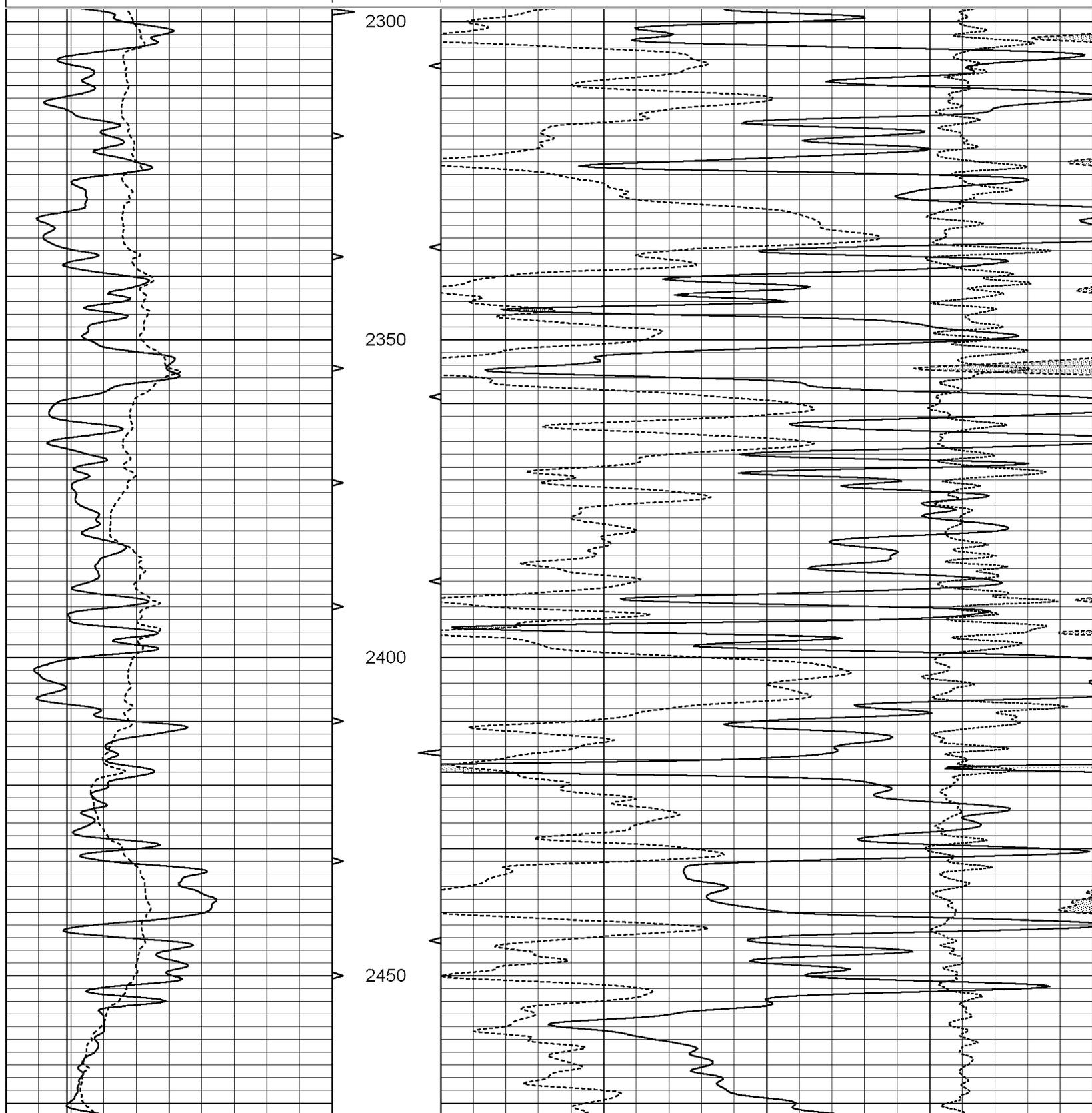


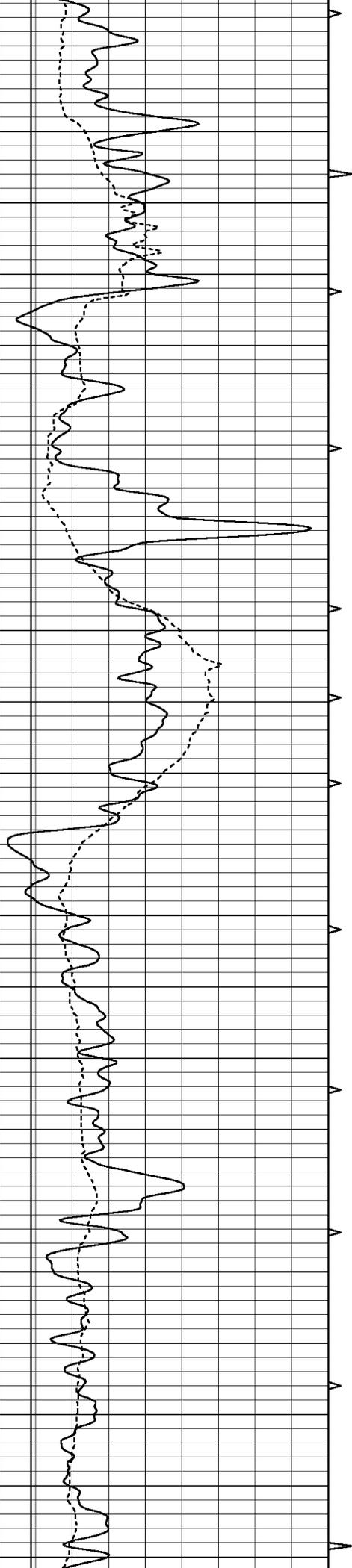
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MAIN SECTION

Database File: 004788ddn.db  
 Dataset Pathname: pass3.1A  
 Presentation Format: den\_neu  
 Dataset Creation: Fri Jan 22 17:01:23 2010  
 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	COMPENSATED NEUTRON (pu)	-10
			TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		



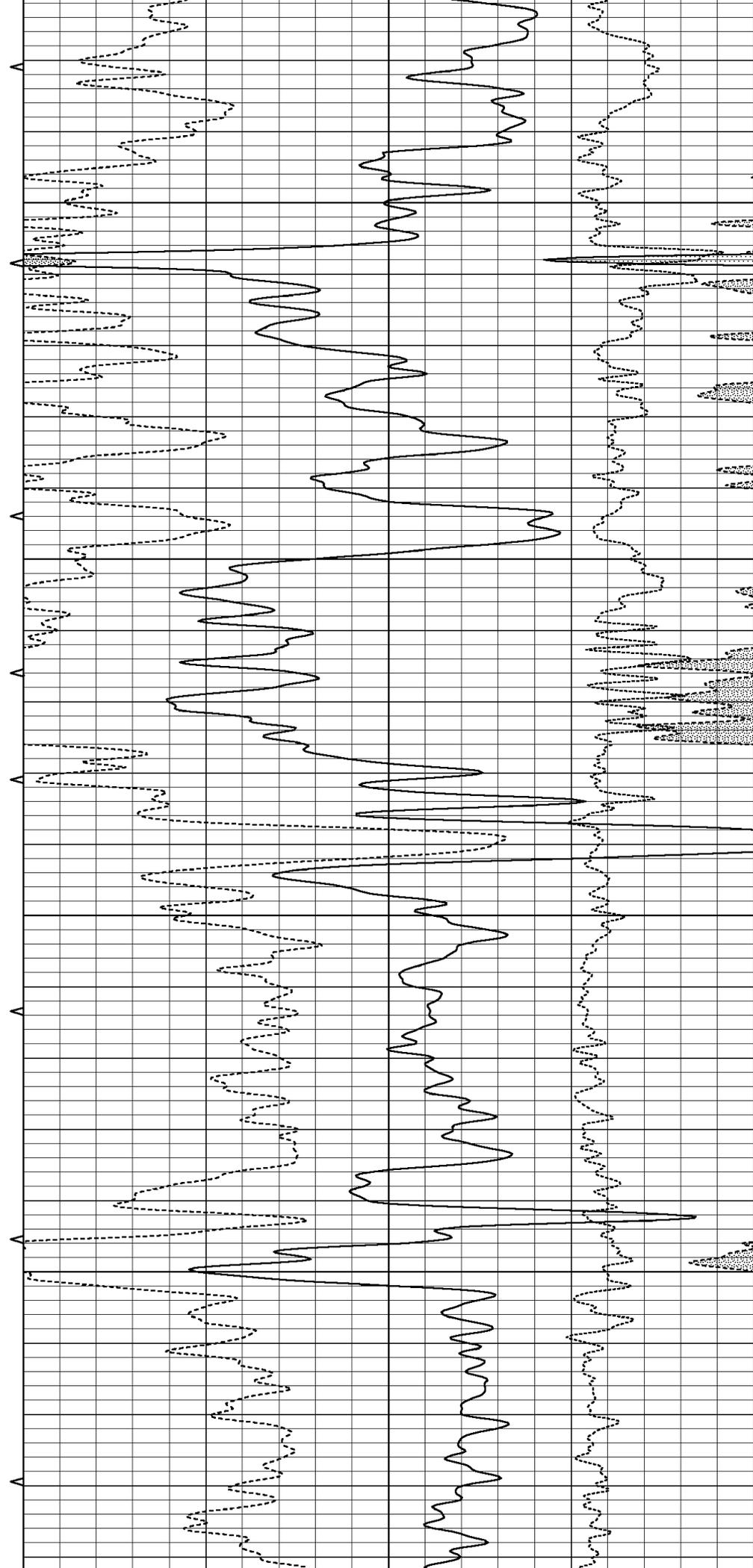


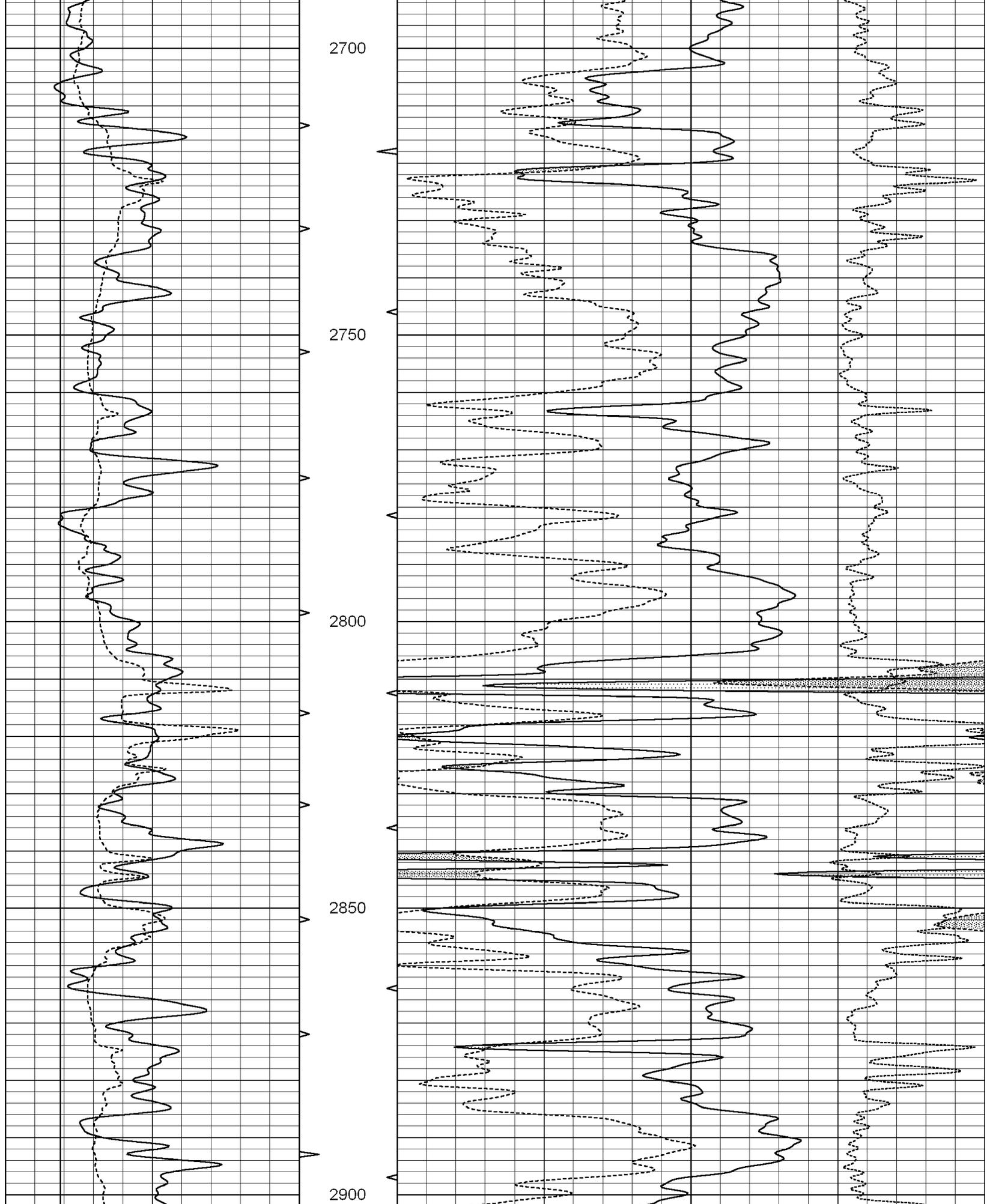
2500

2550

2600

2650





0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10

TBHV  
0 (ft3) 10

-0.25 CORRECTION (g/cc) 0.25

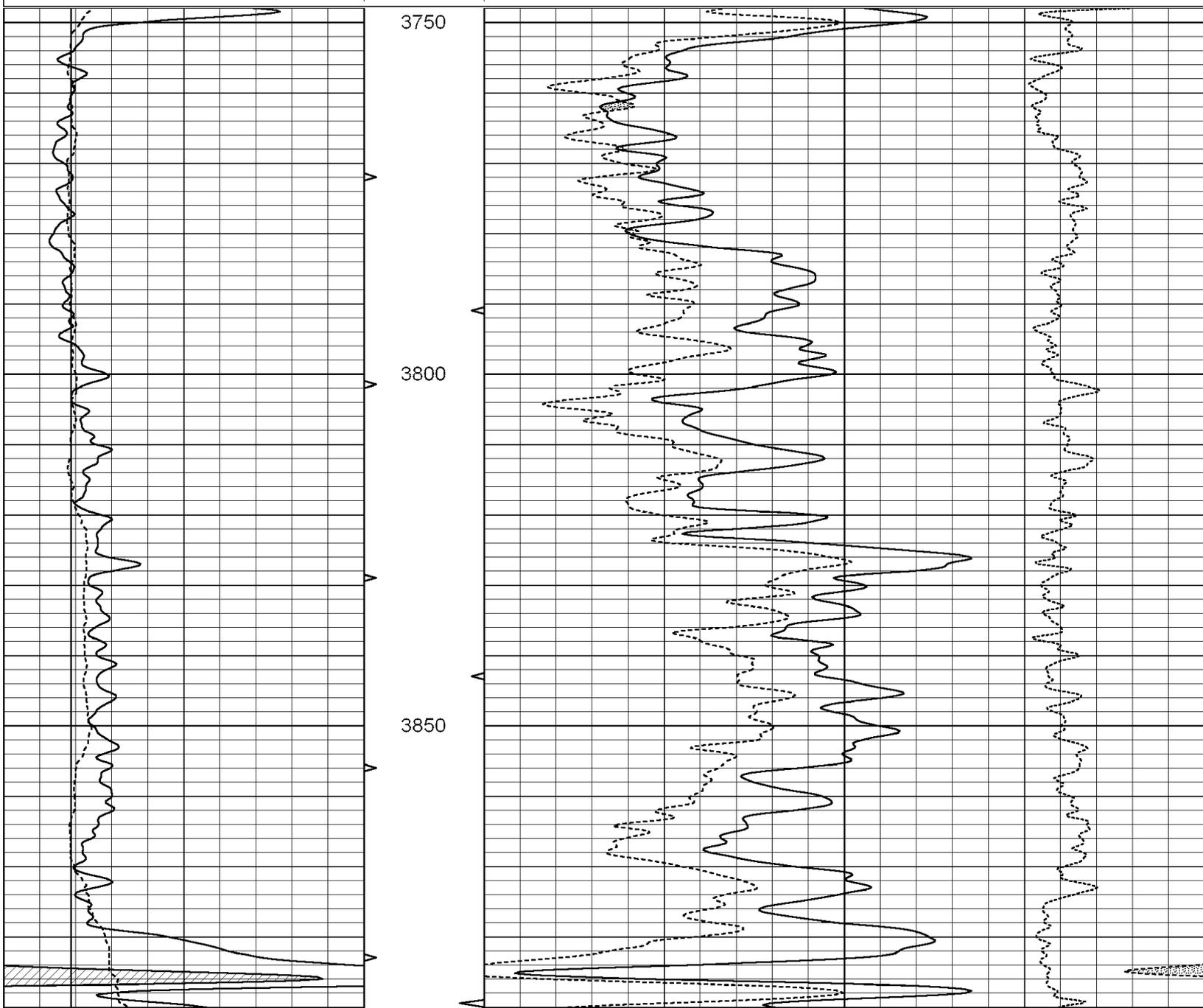


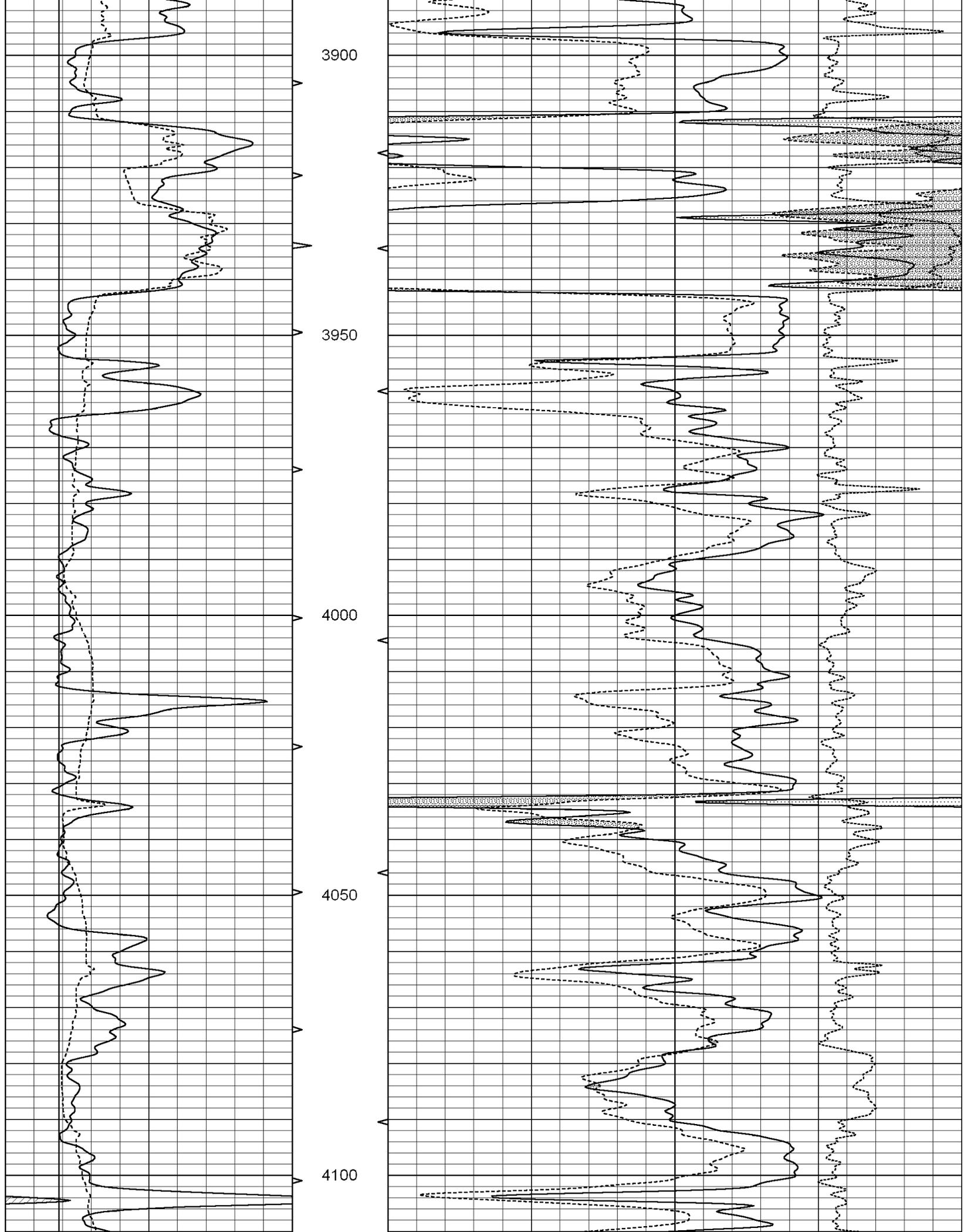
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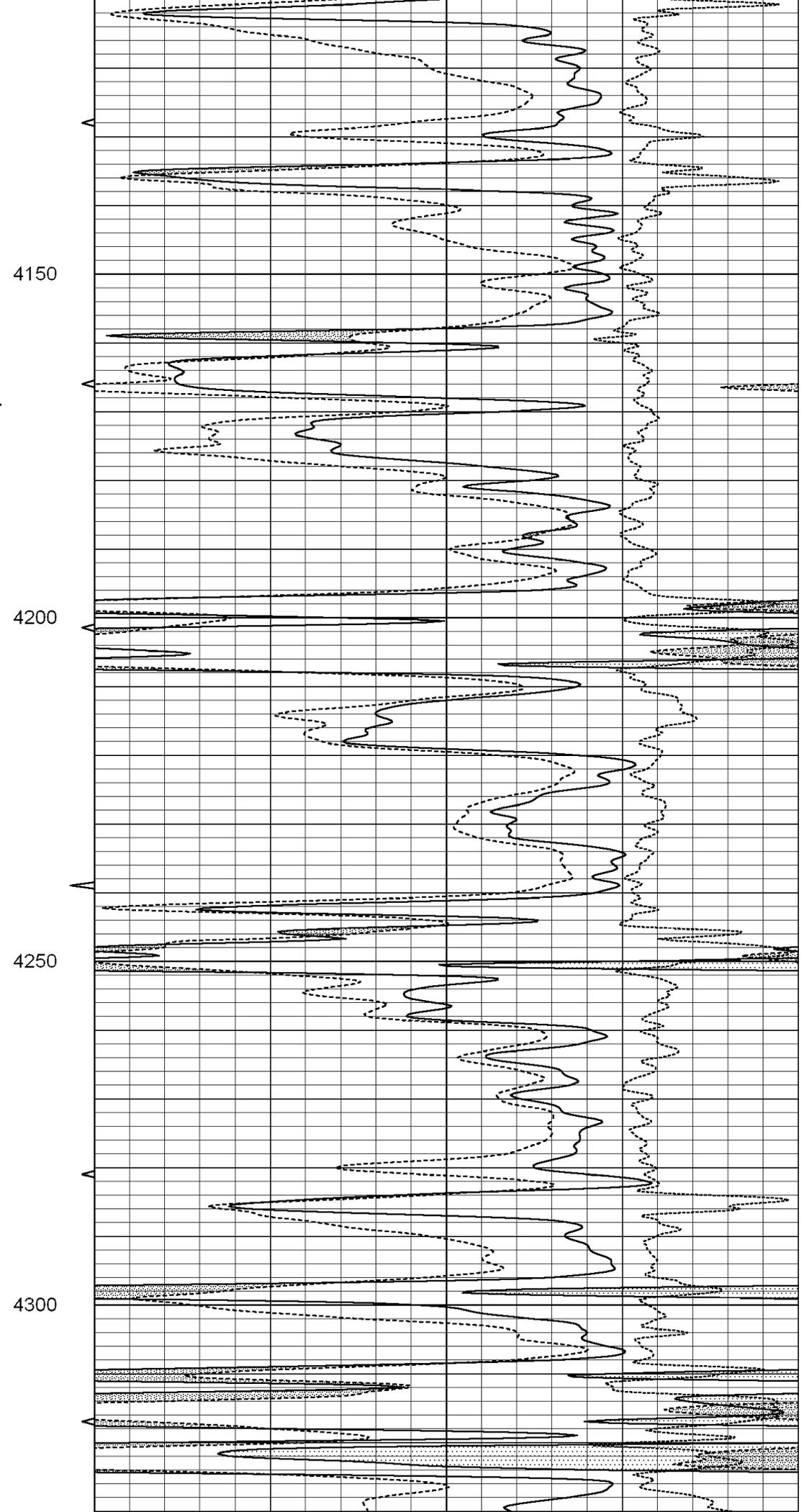
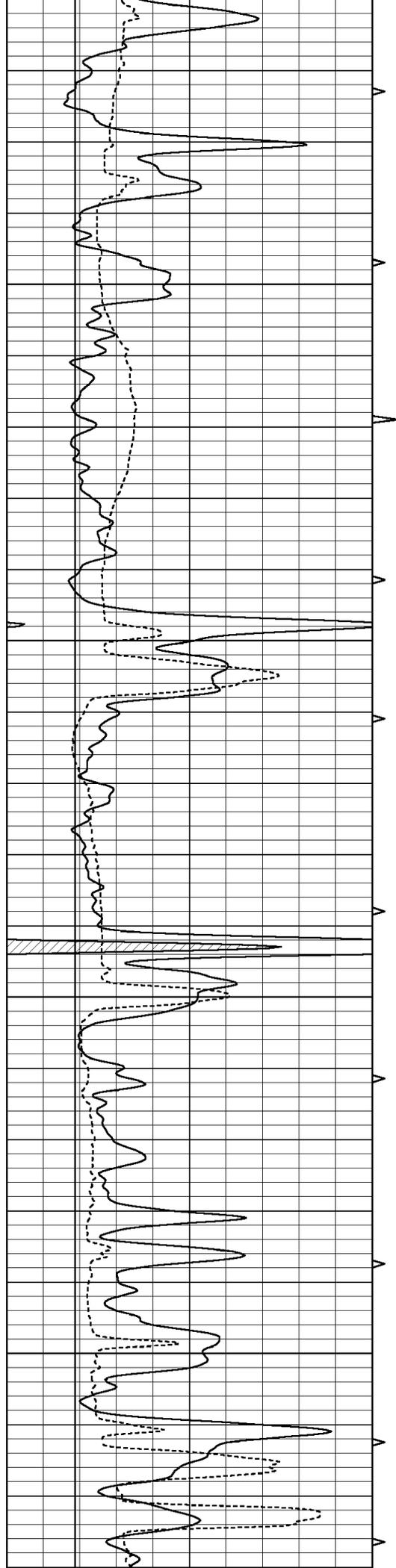
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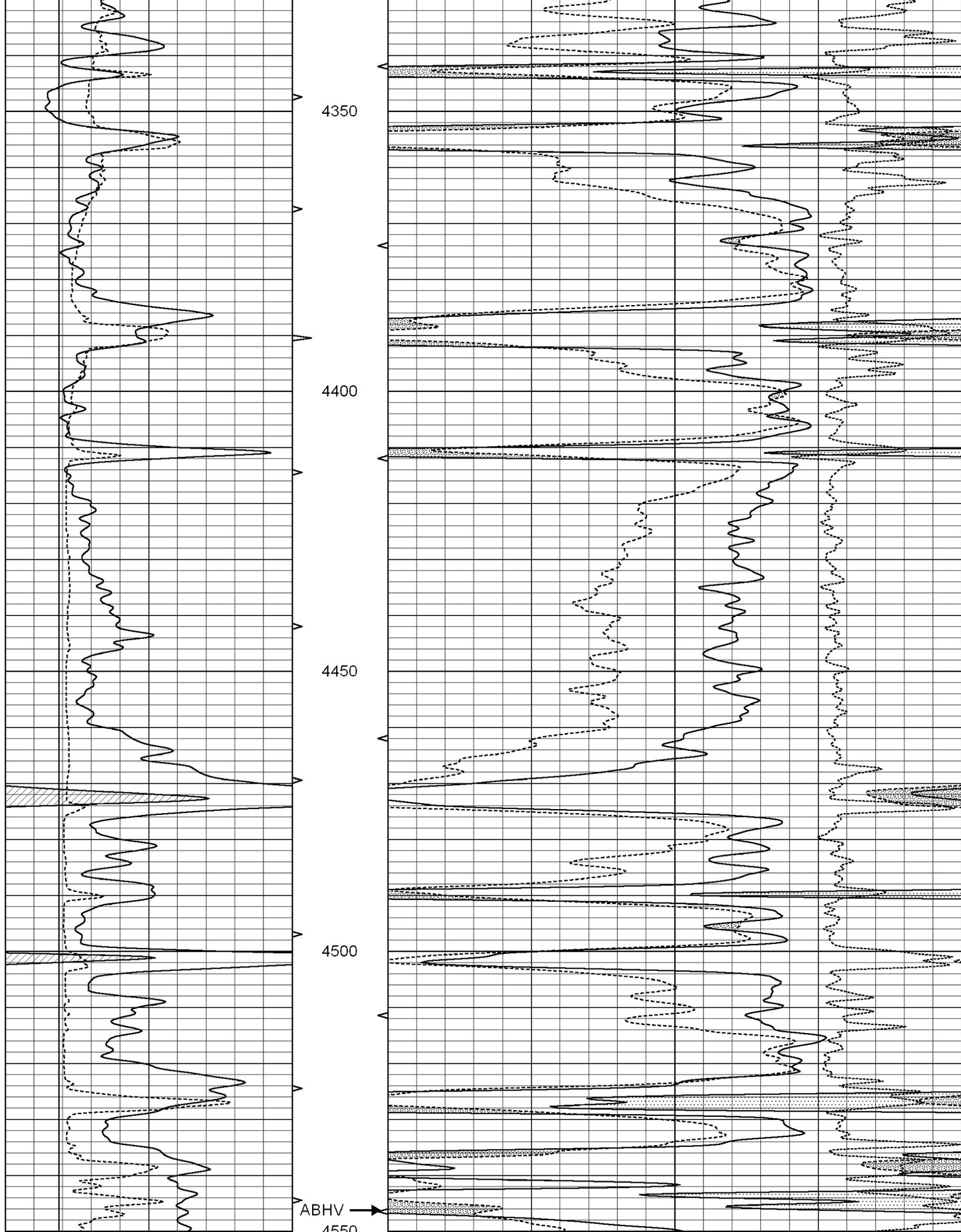
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Presentation Format: den\_neu  
Dataset Creation: Fri Jan 22 17:01:23 2010  
Charted by: Depth in Feet scaled 1:240

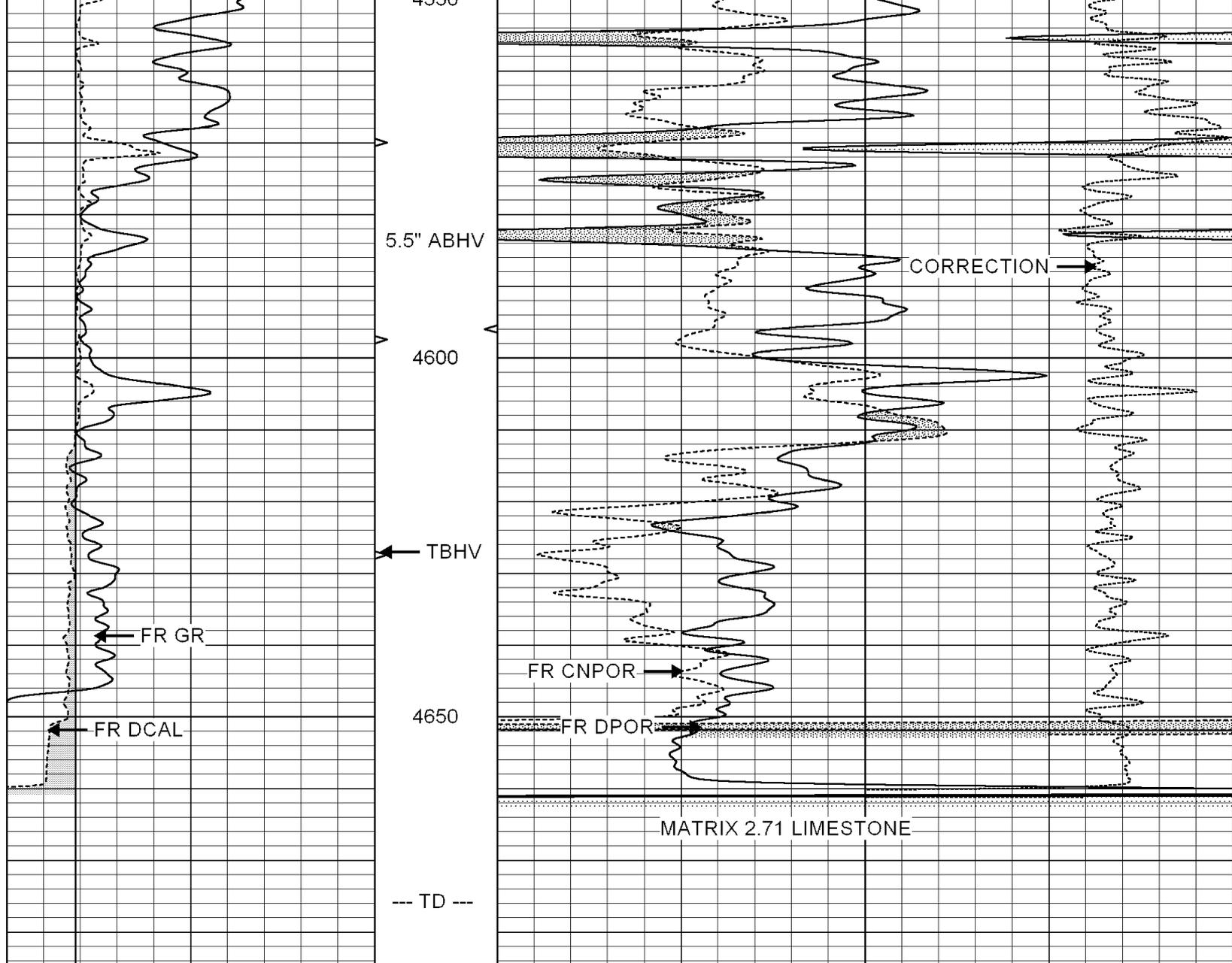
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
			TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			











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

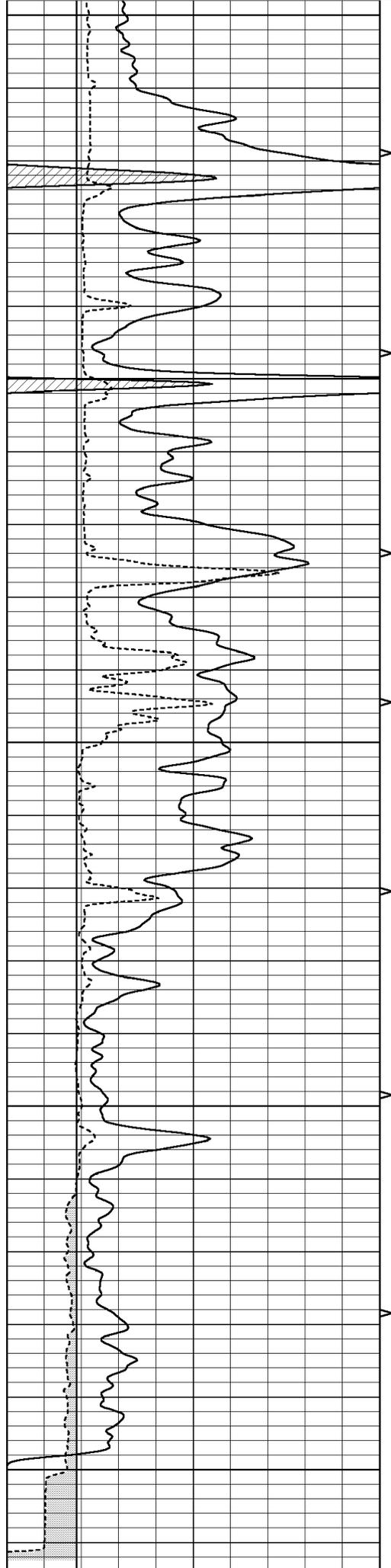


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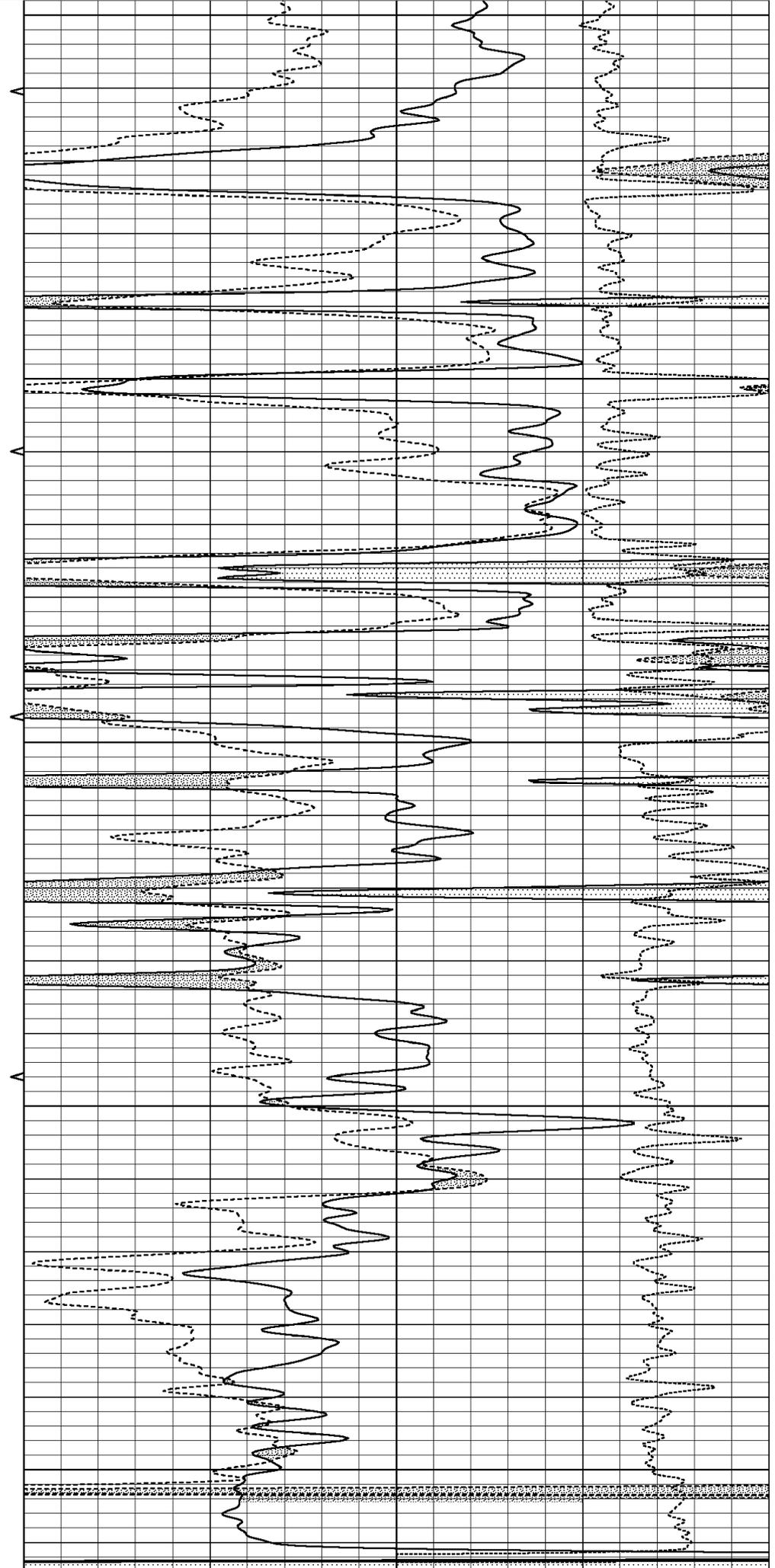
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Database File: 004788ddn.db  
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 Presentation Format: den\_neu  
 Dataset Creation: Fri Jan 22 17:21:13 2010 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

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



4450  
4500  
4550  
4600  
4650



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

### Calibration Report

Database File: 004788ddn.db  
 Dataset Pathname: pass3.1A  
 Dataset Creation: Fri Jan 22 17:01:23 2010

### Dual Induction Calibration Report

Serial-Model: DIL5-GEAR  
 Performed: Fri Jan 22 15:05:36 2010

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	560.000	-9.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	540.000	-12.000
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: Fri Jan 22 15:40:06 2010

#### Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1006.91	528.07	cps
Aluminum	2.600	g/cc	233.49	355.80	cps
Spine Angle = 74.88			Density/Spine Ratio = 0.588		
	Size		Reading		
Small Ring	7.90	in	3.68	V	
Large Ring	14.00	in	6.06	V	

### Compensated Neutron Calibration Report

Serial Number: NEU\_11  
 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:	Fri Jan 22 15:30:42 2010	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps