



**SUPERIOR
Hays,
Kansas**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	#1 SIMON 13 CD		
Field			
County	FORD	State	KANSAS
Location:	API # : 15-057-20803-0000		Other Services
	982' FSL & 2240' FEL NW - SW - SE		DIL
	SEC 13	TWP 27S	RGE 24W
Permanent Datum	GROUND LEVEL		Elevation 2447
Log Measured From	KELLY BUSHING 11' A.G.L.		K.B. 2458
Drilling Measured From	KELLY BUSHING		D.F. 2456
			G.L. 2447
Date	5-16-12		
Run Number	ONE		
Depth Driller	5110		
Depth Logger	5107		
Bottom Logged Interval	5083		
Top Log Interval	3400		
Casing Driller	352		
Casing Logger	350		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2 / 55		
pH / Fluid Loss	9.5 / 9.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.50 @ 84F		
Rinf @ Meas. Temp	0.38 @ 84F		
Rmc @ Meas. Temp	0.60 @ 84F		
Source of Rinf / Rmc	MEASURED		
Rim @ BHT	0.37 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	113F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	JEFF GRONWEG		
Witnessed By	MIKE ENGELBRECHT		

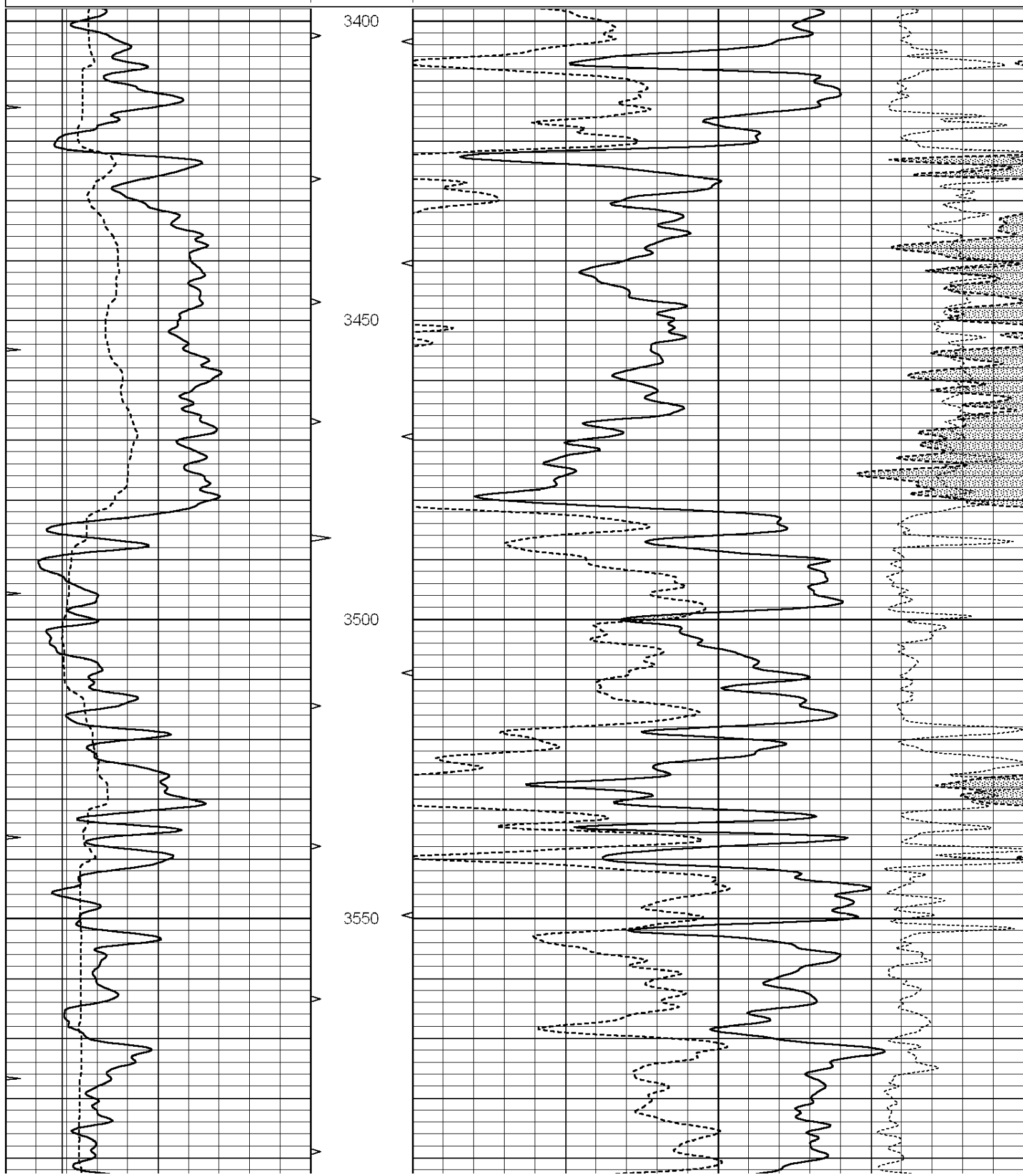
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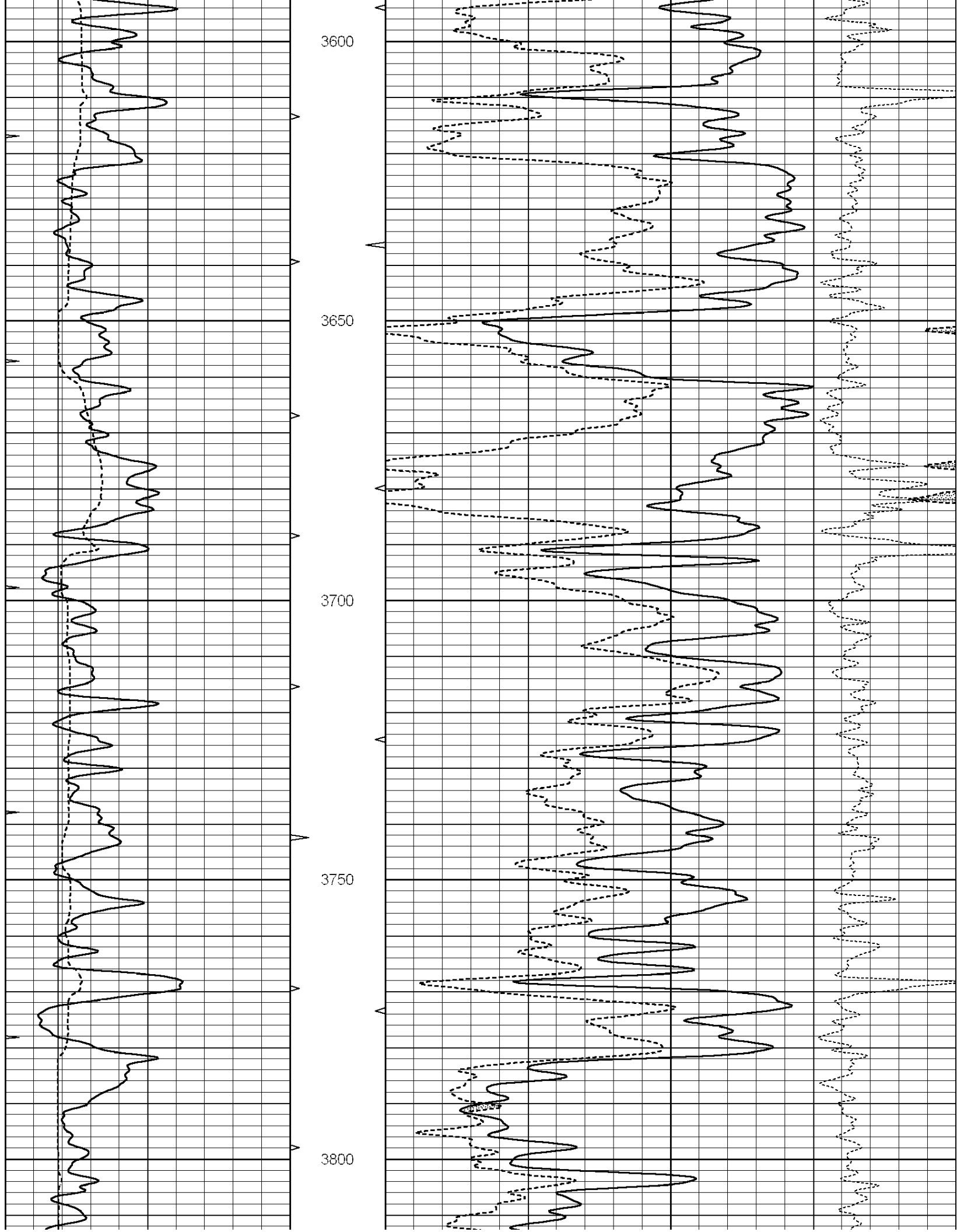
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

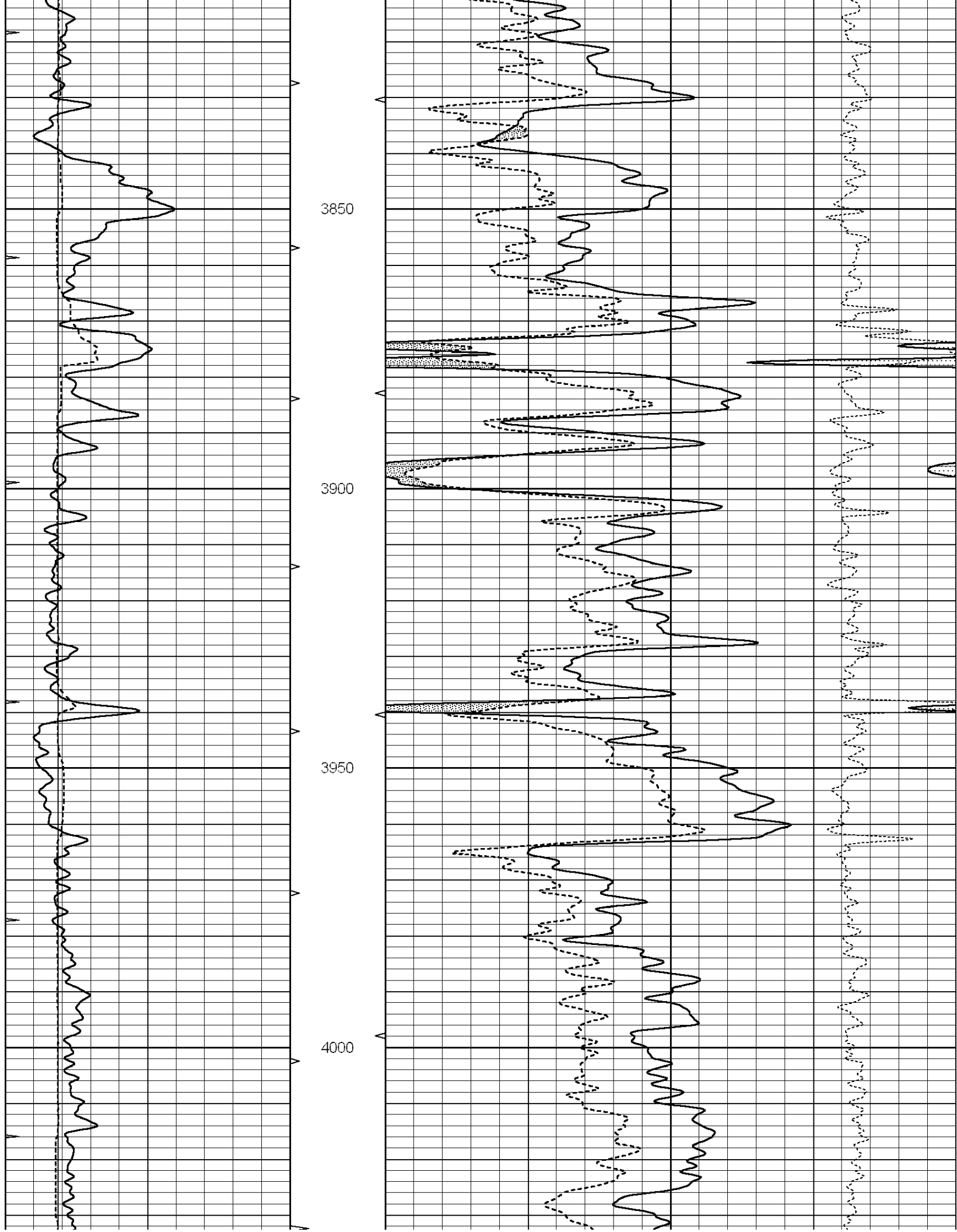
Comments

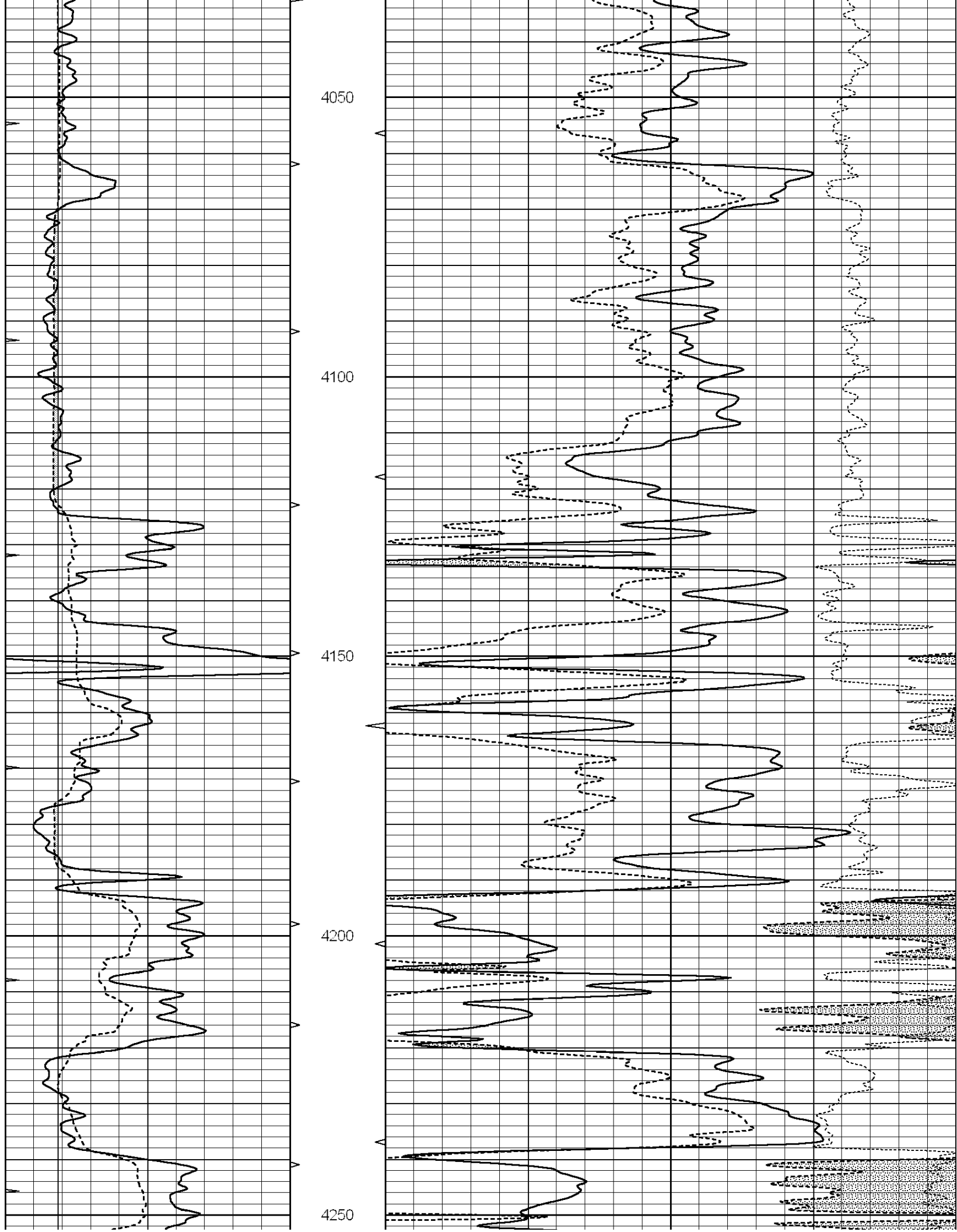
SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: FORT DODGE, KS - 2 MILES SOUTHEAST ON HWY 400
2 MILES SOUTH ON RD 117 - EAST INTO

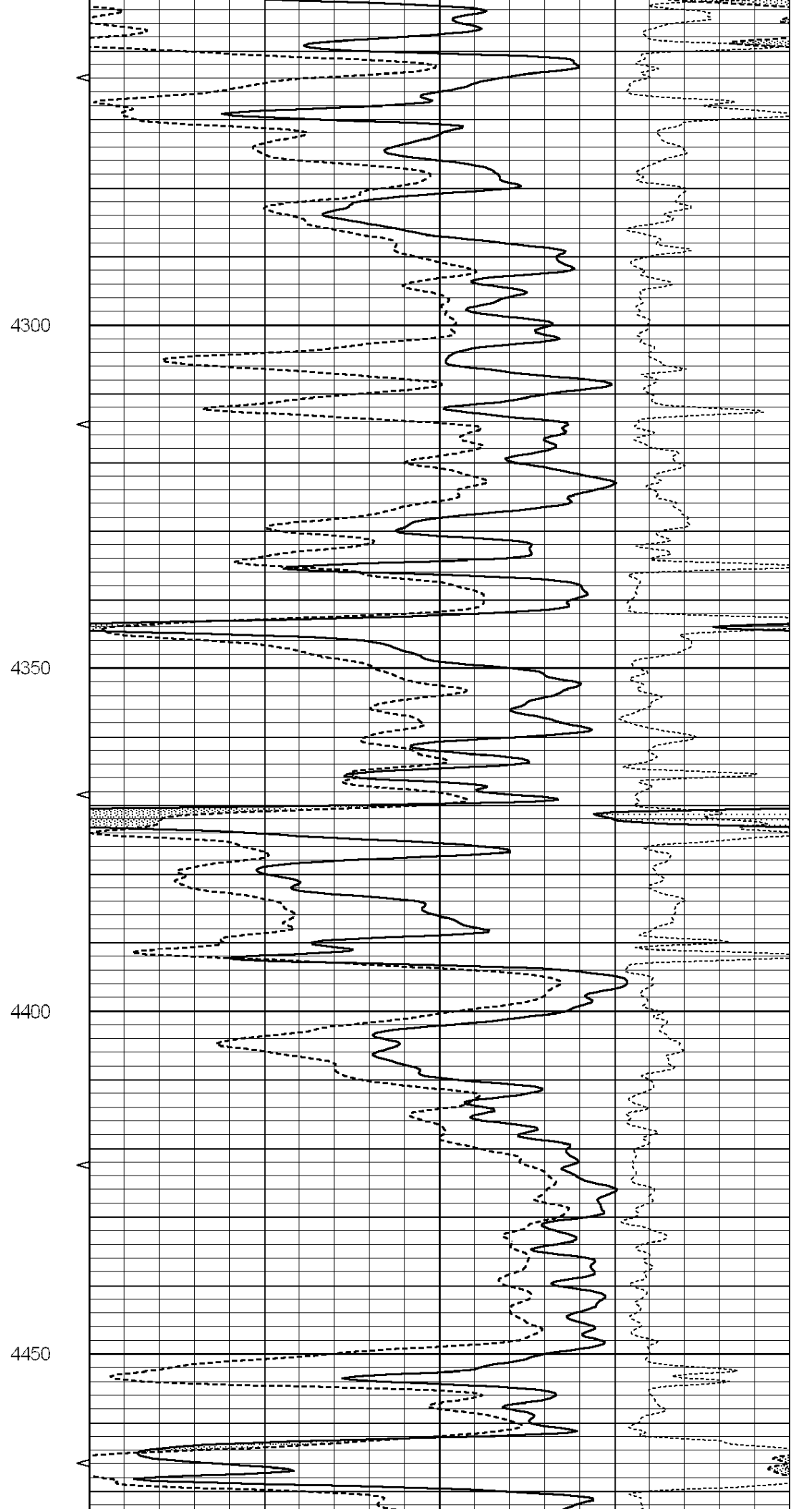
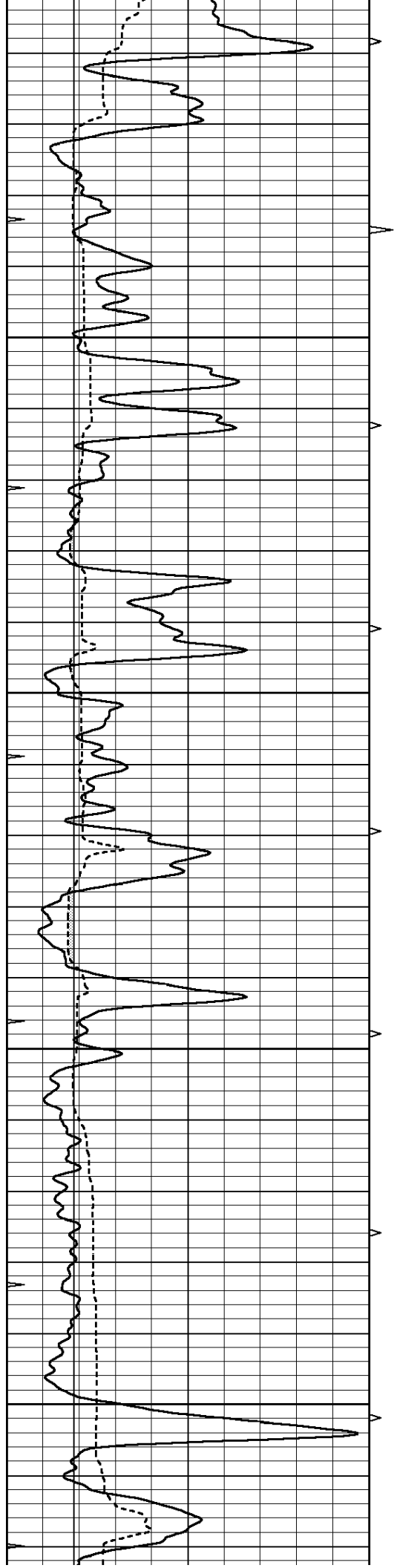
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			

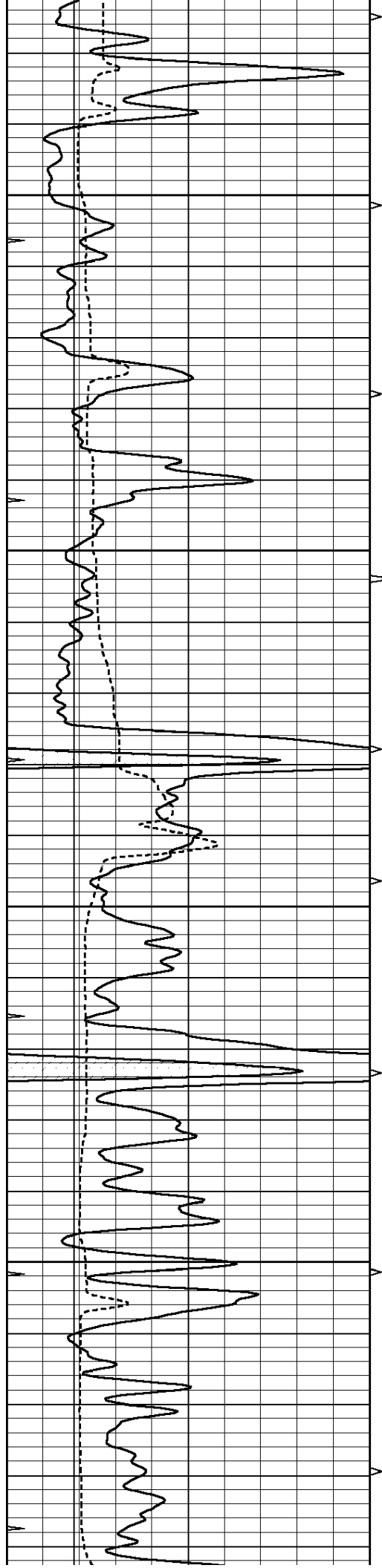










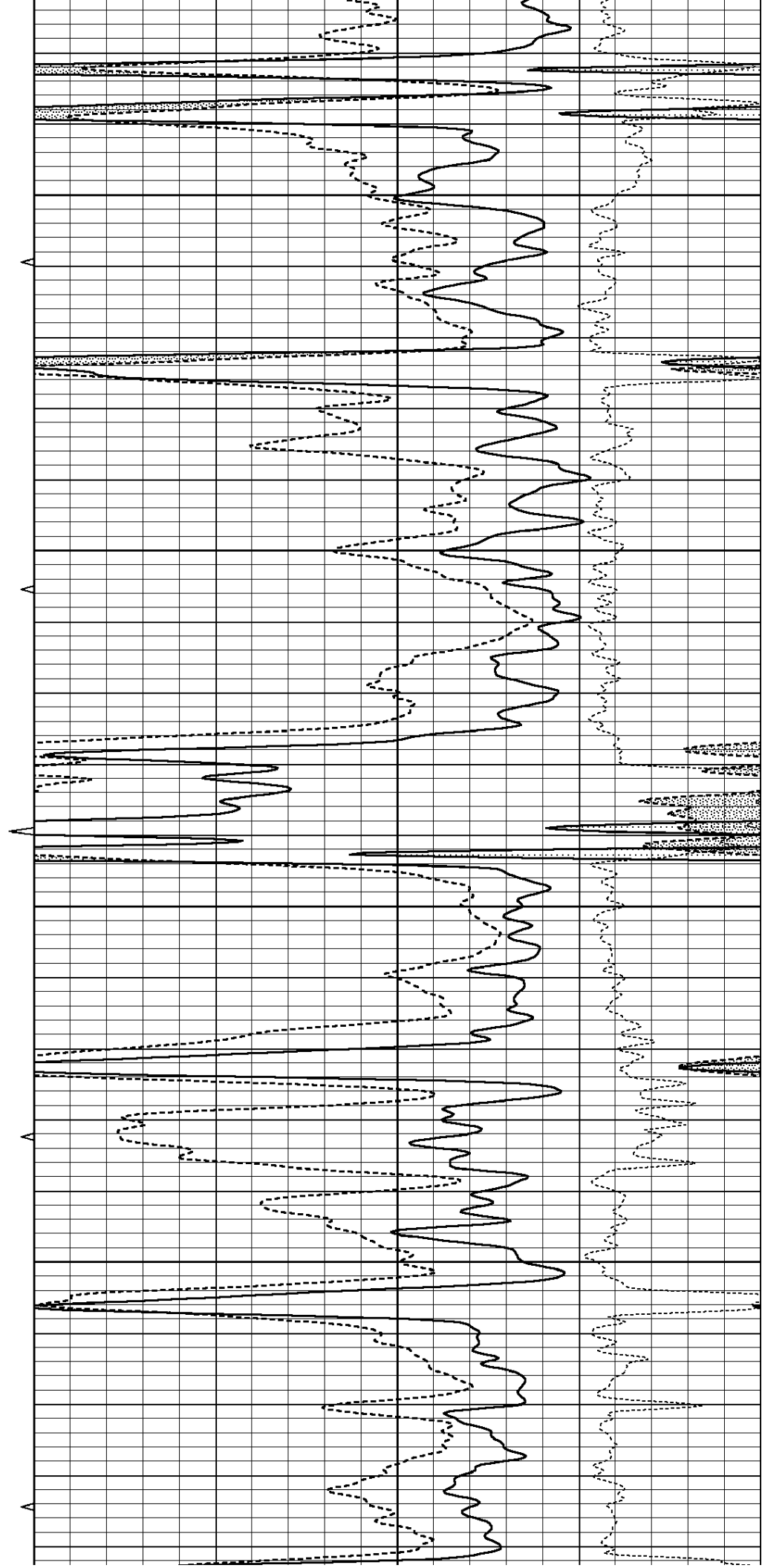


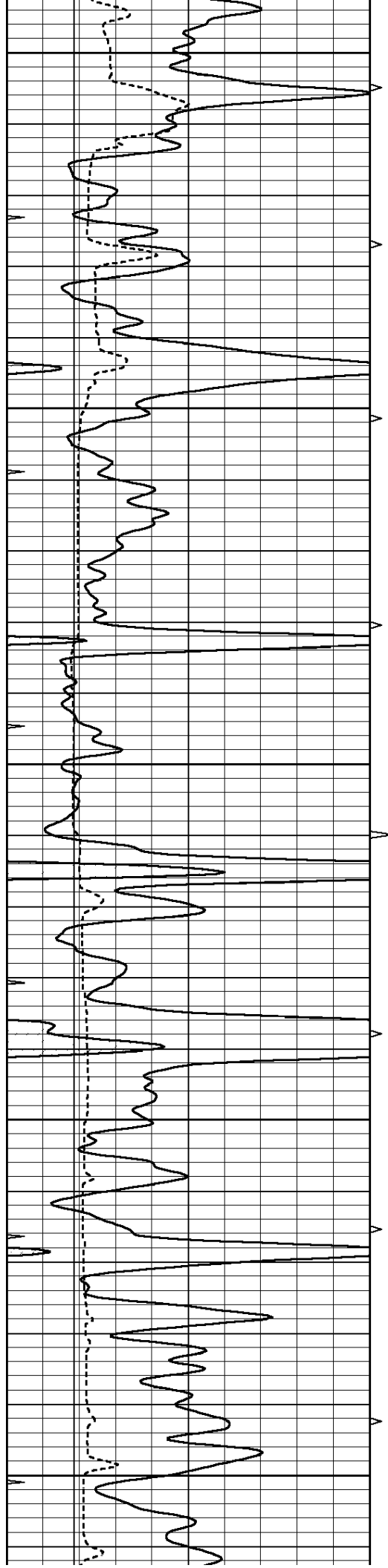
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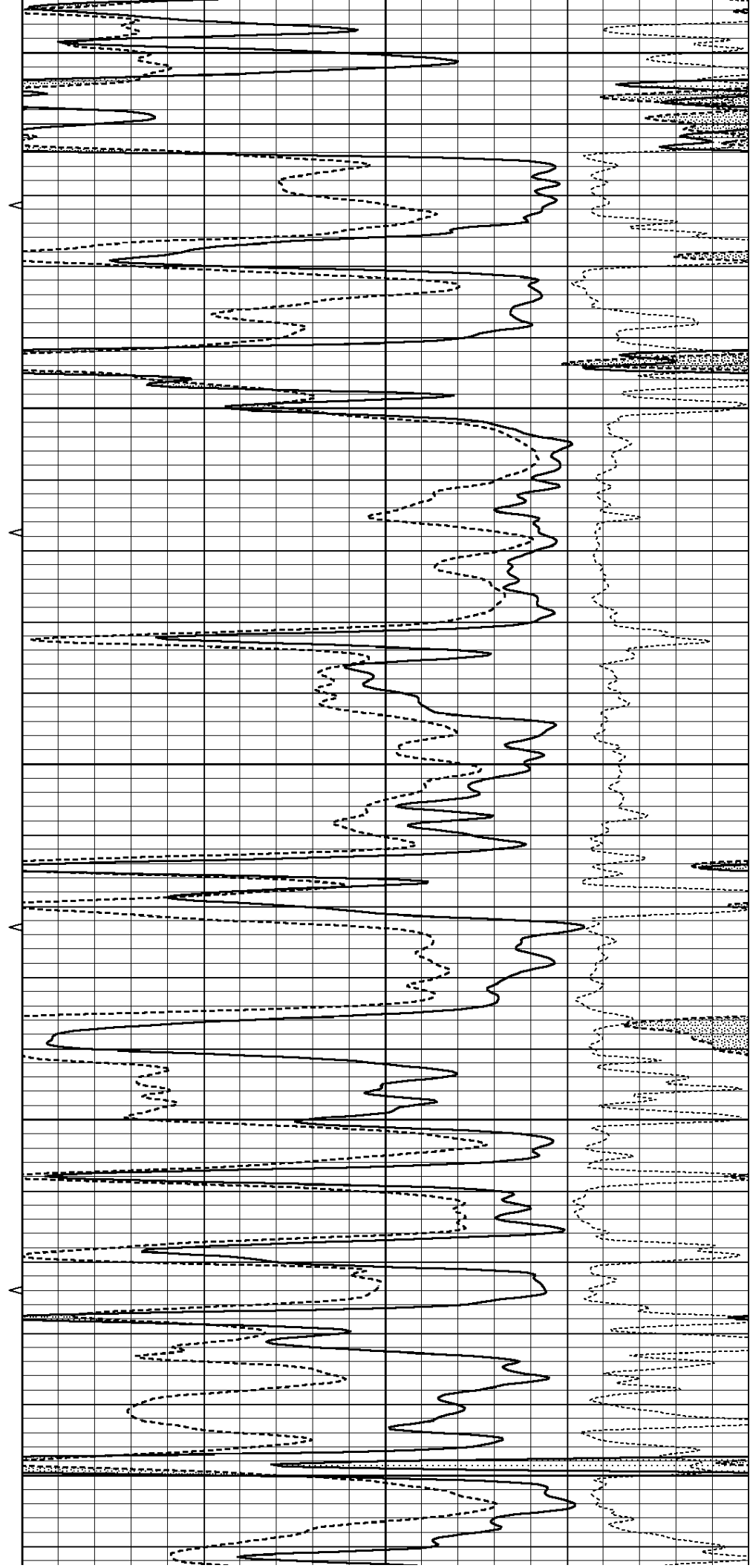
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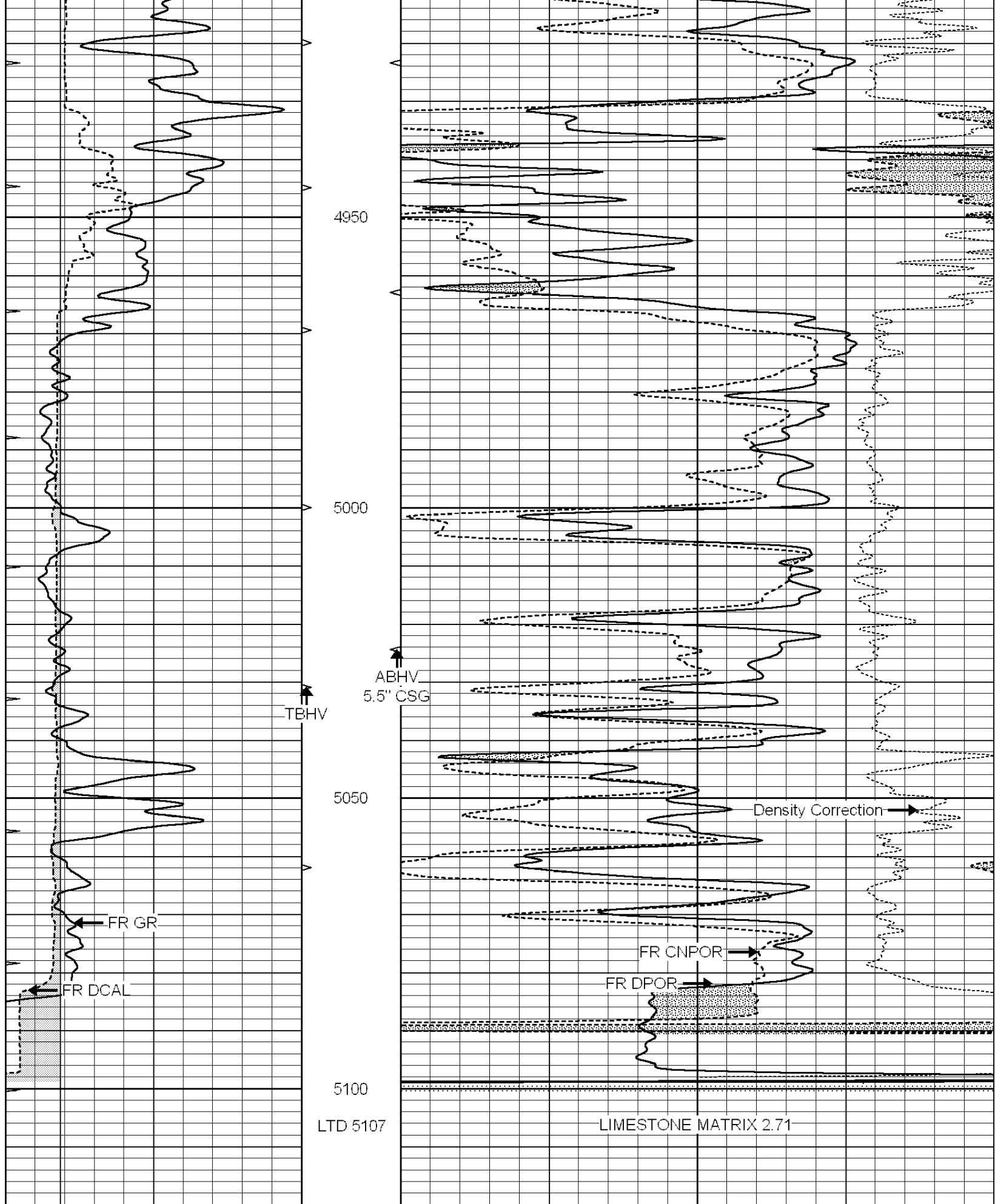
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0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
2	ABHV	30	TBHV	30	DENSITY CORRECTION (%)	0.05

0	MINMK	20	TBHV		-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10			



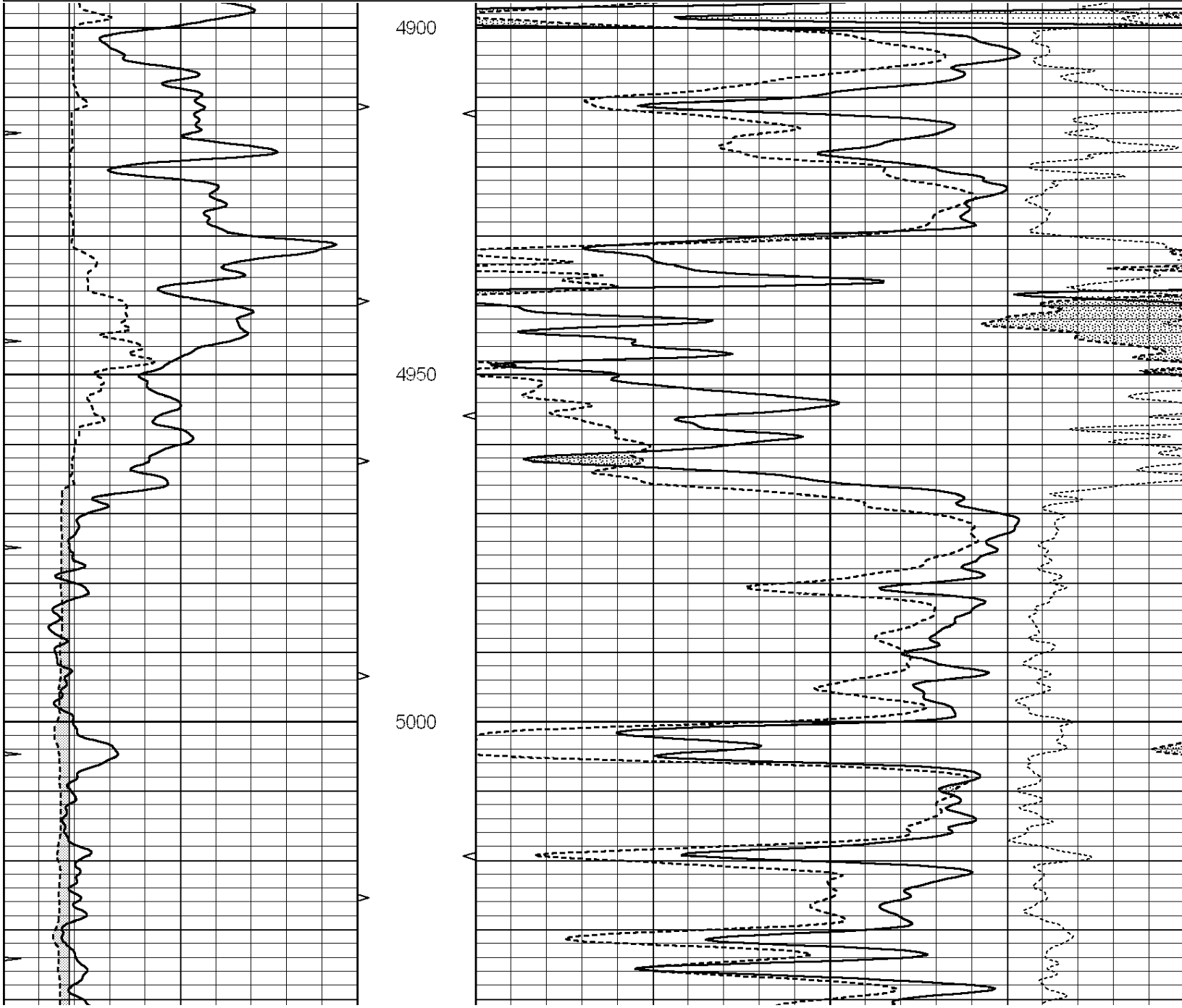
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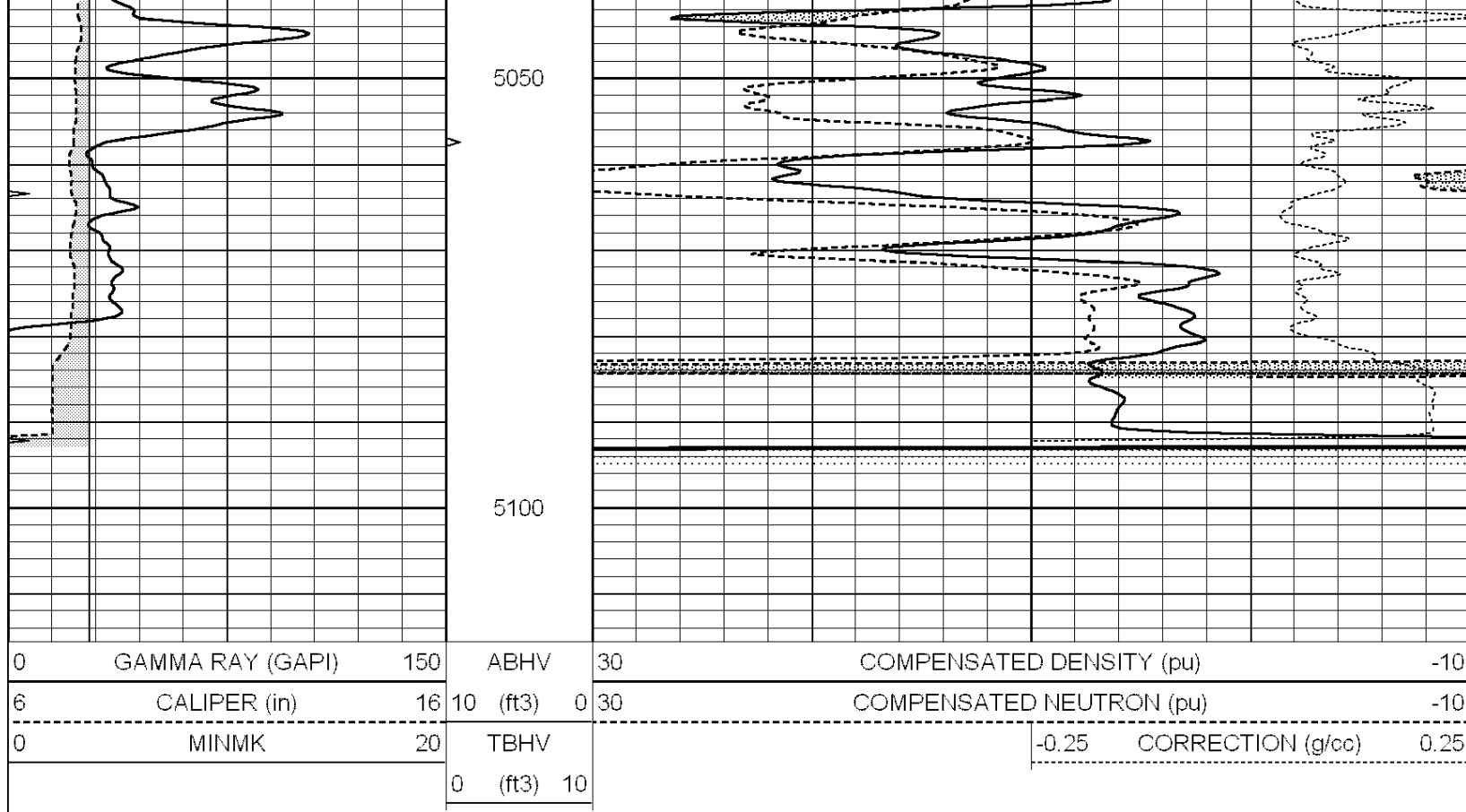
Hays,
Kansas

REPEAT SECTION

Database File: 009118ddn.db
Dataset Pathname: pass2.2
Presentation Format: den_neu
Dataset Creation: Wed May 16 15:53:15 2012 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
0	MINMK	20	TBHV		-0.25	CORRECTION (g/cc) 0.25
			0 (ft3)	10		





Calibration Report

Database File: 009118ddn.db
 Dataset Pathname: pass3.4
 Dataset Creation: Wed May 16 15:48:09 2012 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
 Surface Cal Performed: Thu May 10 04:20:47 2012
 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	550.000	-8.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	540.000	-10.000
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		3970.000	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: GEAR2-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Fri Feb 04 23:31:20 2011

Master Calibration

	Density		Far Detector		Near Detector	
Magnesium	1.710	g/cc	1203.63		642.89	cps
Aluminum	2.590	g/cc	267.51		439.63	cps
Spine Angle = 75.82			Density/Spine Ratio = 0.567			
	Size		Reading			
Small Ring	7.70	in	4.16		V	
Large Ring	14.00	in	5.99		V	

Compensated Neutron Calibration Report

Serial Number: NUE_2I
 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: Sun May 13 08:39:20 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.6500 GAPI/cps