



**SUPERIOR
Hays,
Kansas**

**COMPENSATED
DENSITY
NEUTRON LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	#2 STUCKY 36D		
Field	LOGAN		
County	LOGAN	State	KANSAS
Location:	API #: 15-109-20889		Other Services DIL
660' FSL & 330' FEL			
SEC 36 TWP 13S RGE 32W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2928
Log Measured From	KELLY BUSHING 10' A.G.L.		K.B. 2938
Drilling Measured From	KELLY BUSHING		D.F. G.L. 2928
Date	11-15-09		
Run Number	ONE		
Depth Driller	4655		
Depth Logger	4658		
Bottom Logged Interval	4634		
Top Log Interval	3650		
Casing Driller	219		
Casing Logger	NA		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2 / 66		
pH / Fluid Loss	9.5 / 10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.00 @ 70F		
Rinf @ Meas. Temp	0.75 @ 70F		
Rmc @ Meas. Temp	1.20 @ 70F		
Source of Rinf / Rmc	MEASURED		
Rim @ BHT	.580 @ 121F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	7:30 P.M.		
Maximum Recorded Temperature	121F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	TERRY McLEOD		

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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: OAKLEY, 11S, 3E, 6S, 1W, N INTO.

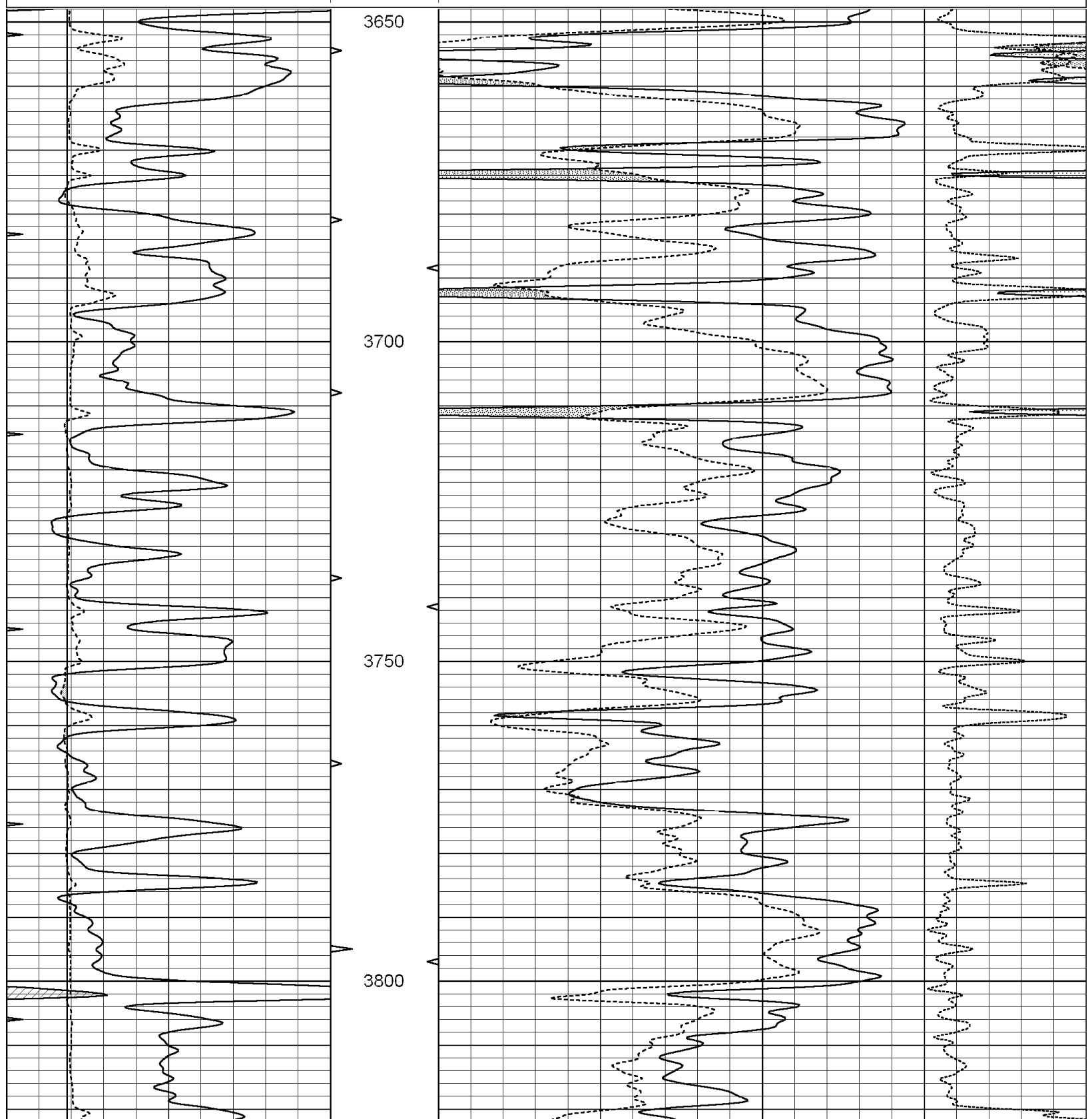


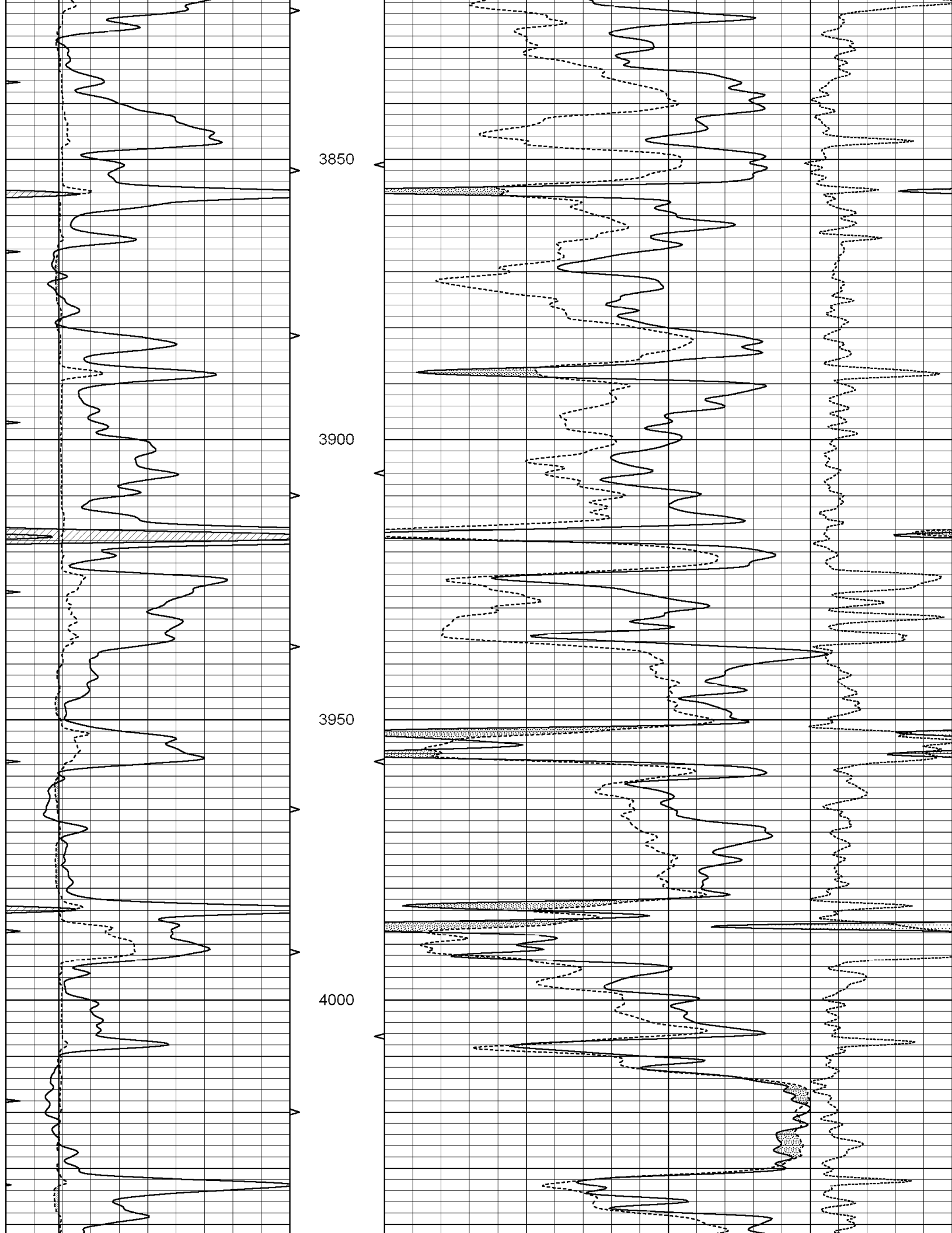
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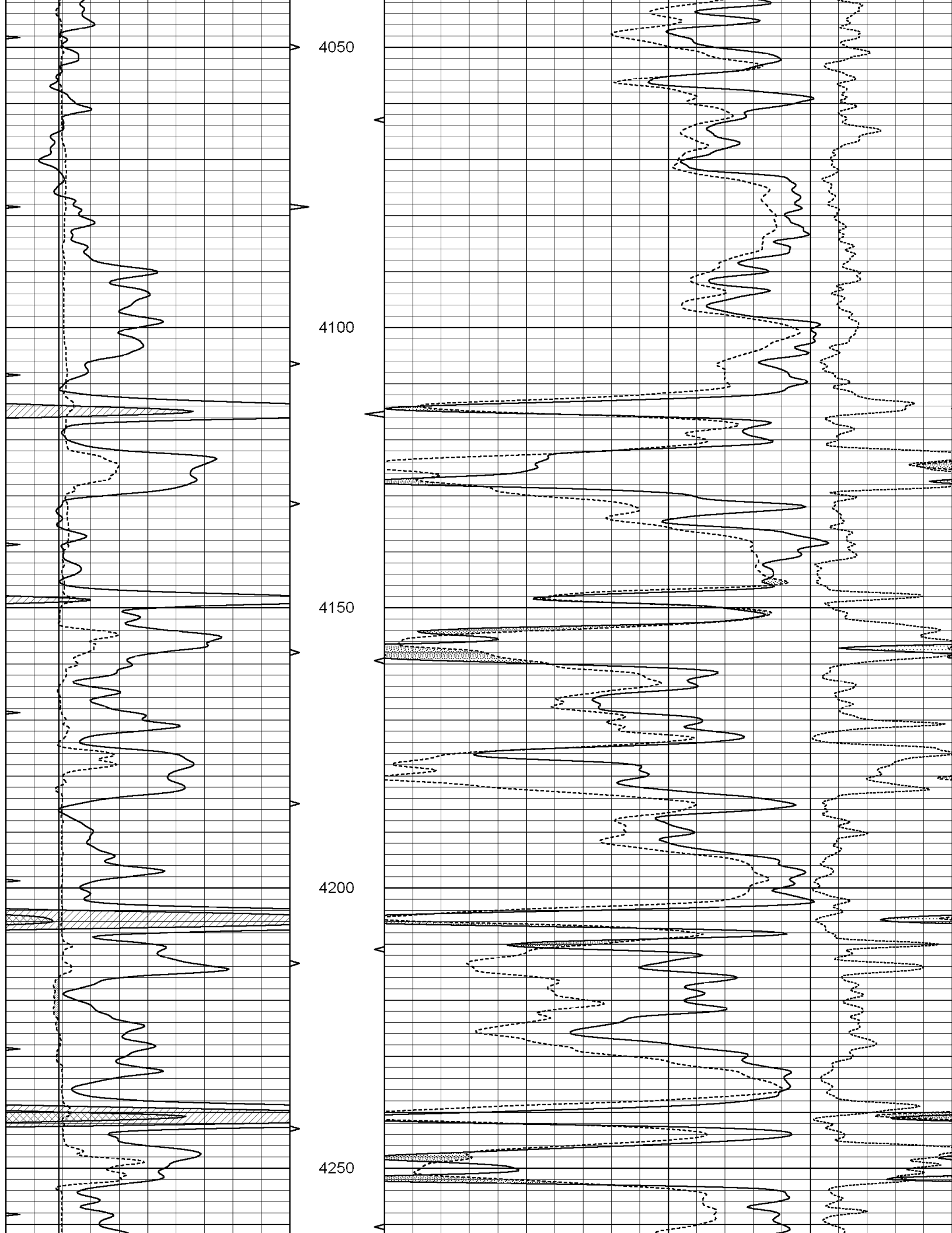
MAIN SECTION

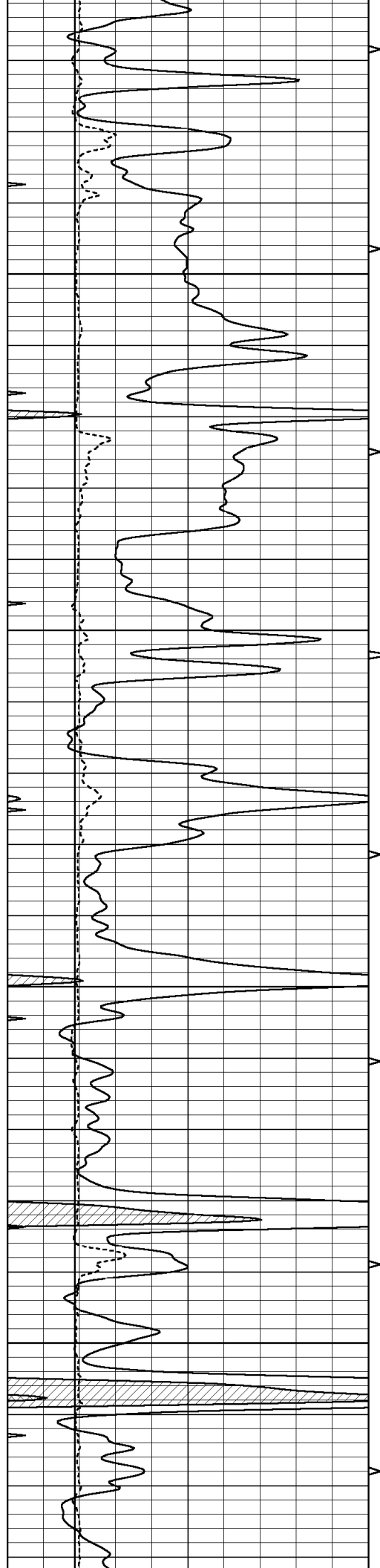
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Dataset Pathname: pass3.1
Presentation Format: den_neu
Dataset Creation: Sun Nov 15 21:05:26 2009 by Calc Open-Cased 051020
Charted by: Depth in Feet scaled 1:240

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			







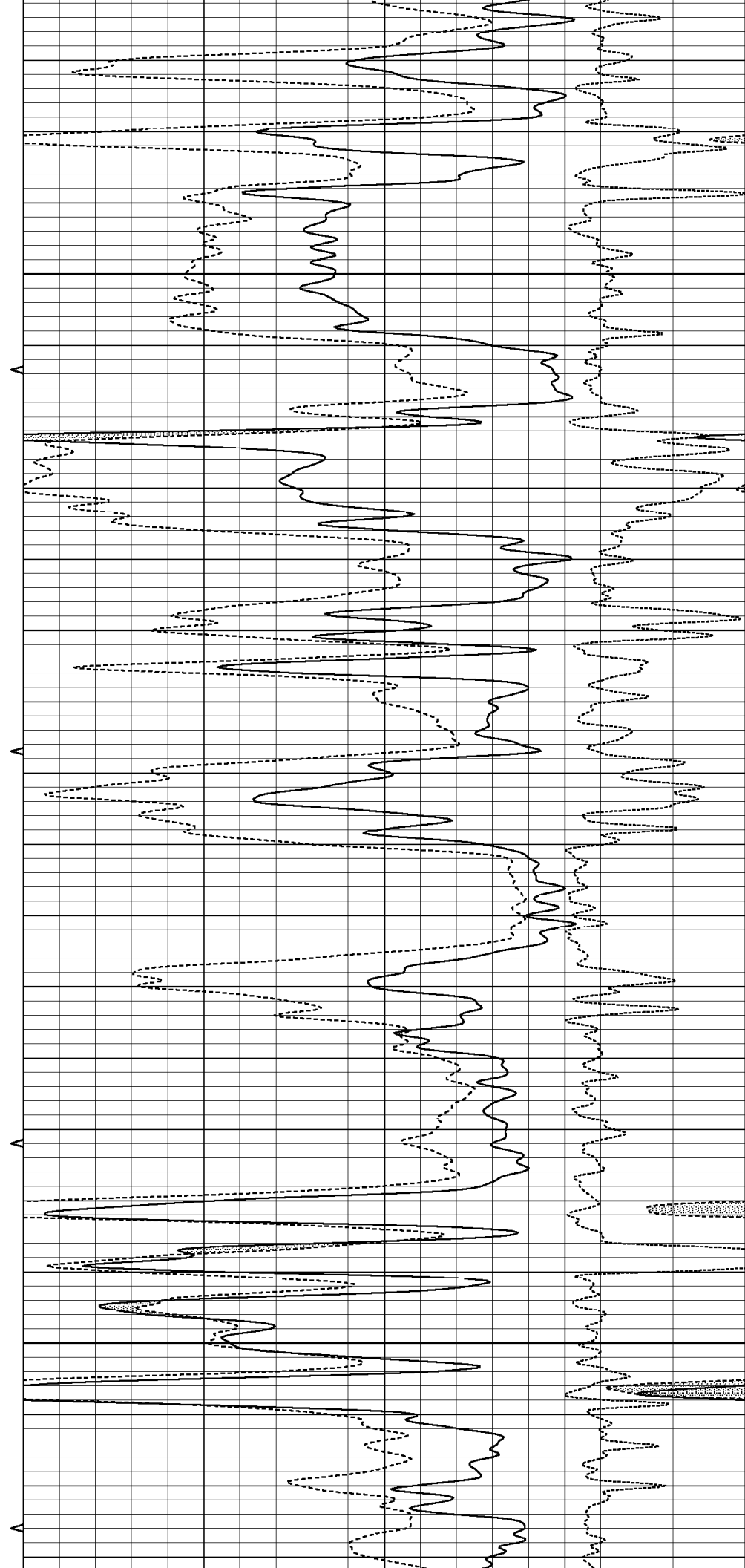


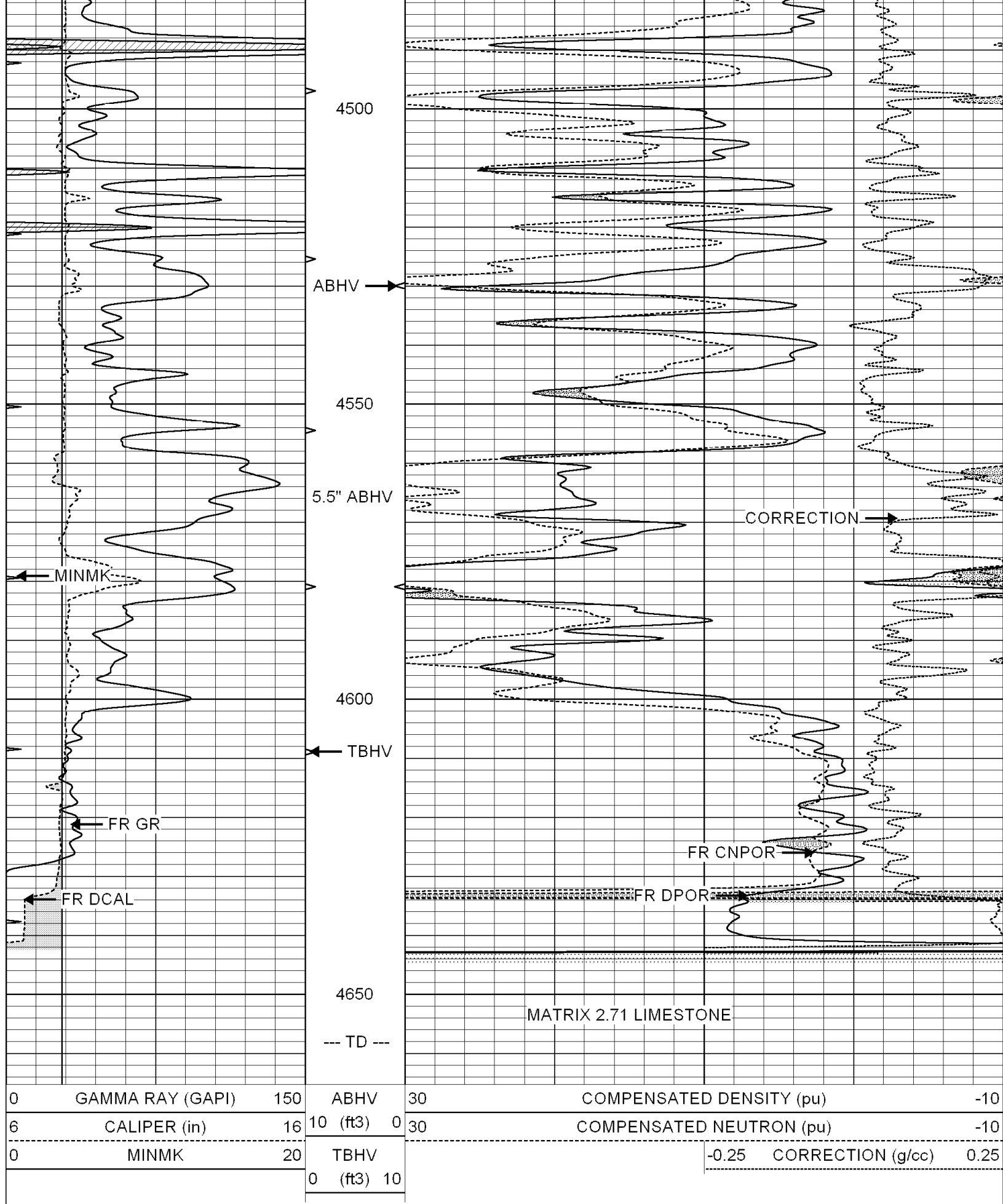
4300

4350

4400

4450

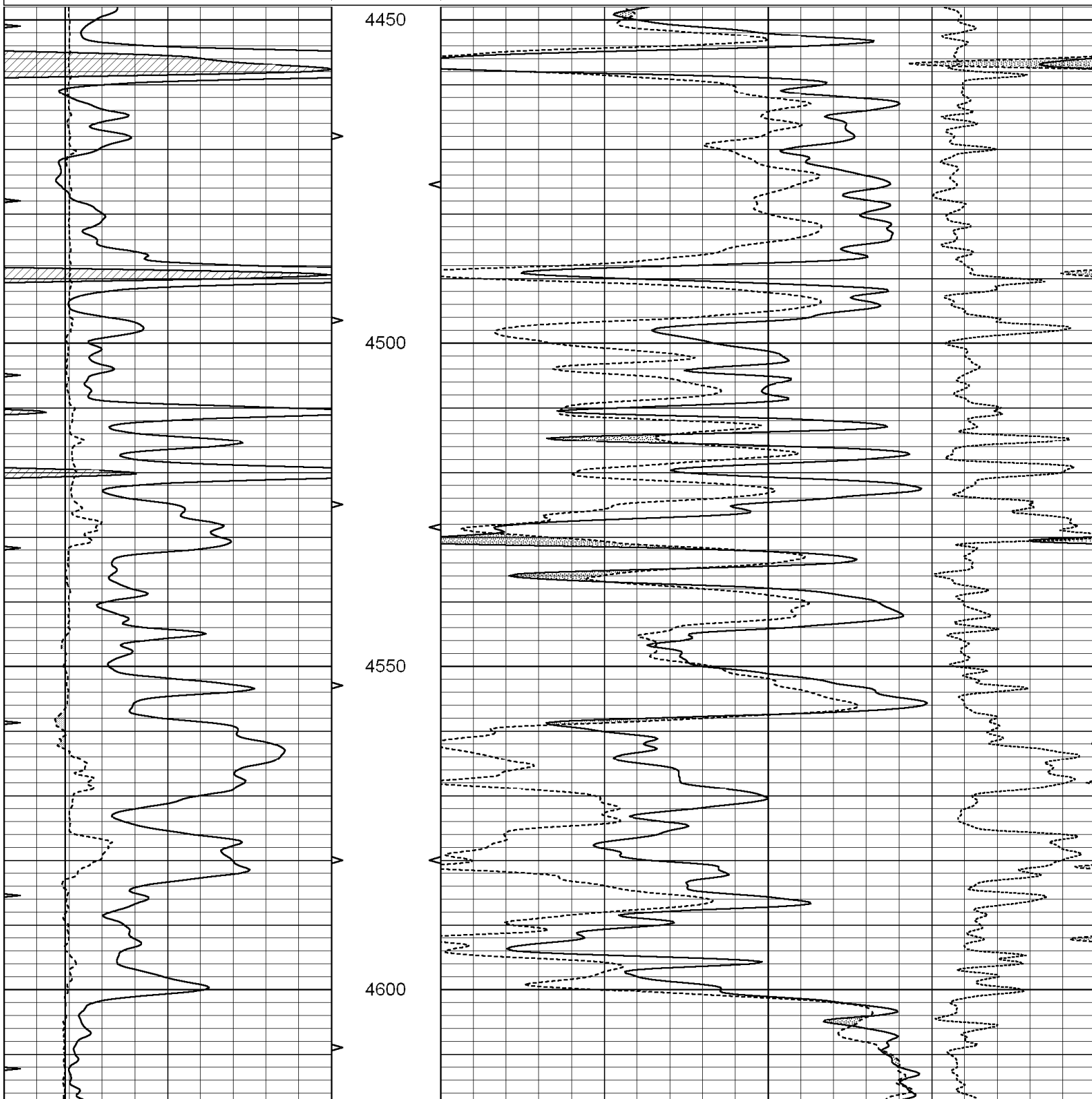


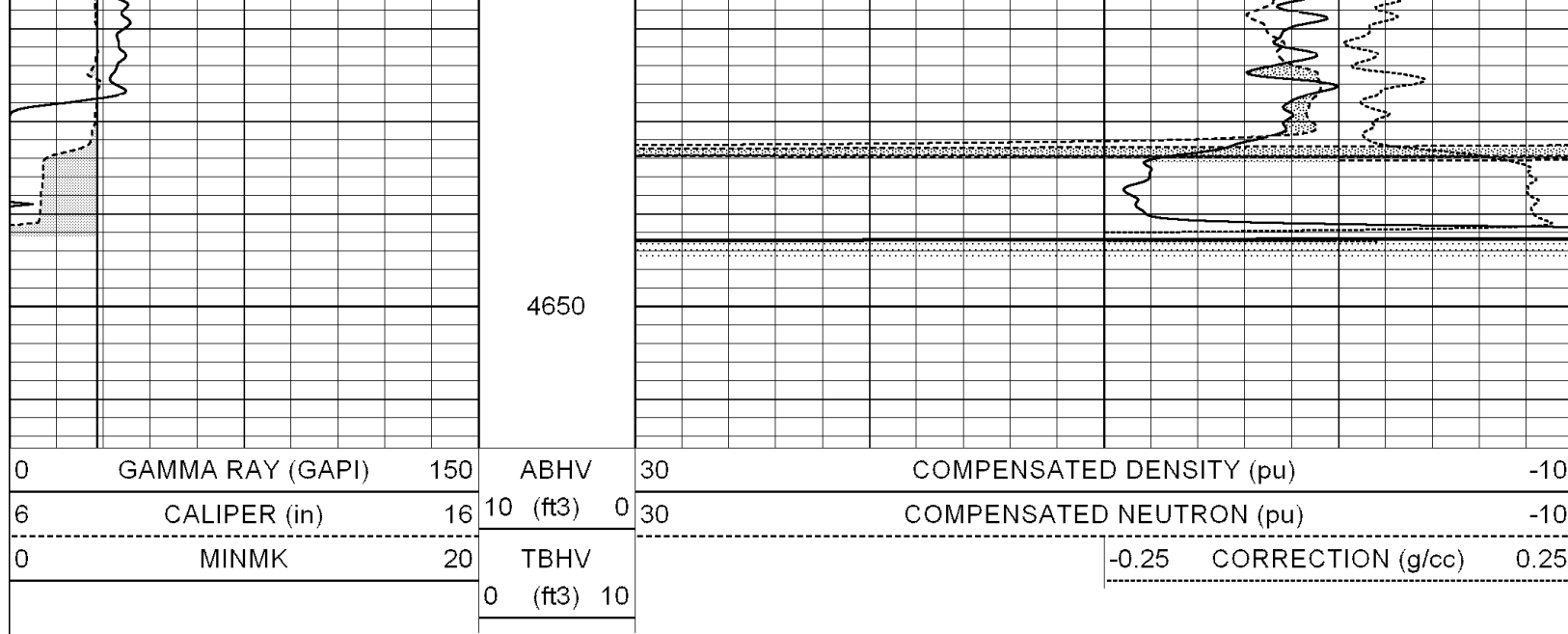




Database File: 004308ddn.db
Dataset Pathname: pass2.1
Presentation Format: den_neu
Dataset Creation: Sun Nov 15 19:46:47 2009 by Calc Open-Cased 051020
Charted by: Depth in Feet scaled 1:240

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:	004308ddn.db
Dataset Pathname:	pass3.1
Dataset Creation:	Sun Nov 15 21:05:26 2009 by Calc Open-Cased 051020

Dual Induction Calibration Report

Serial-Model:	DIL5-GEAR
Performed:	Sun Nov 15 20:08:52 2009

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho-m	580.000	-11.000
Medium	-0.005	0.737	V	0.000	462.500	mmho-m	570.000	-14.000
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
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Serial-Model:	GEAR1-GEARHART
Source / Verifier:	147 / 147
Master Calibration Performed:	Sun Nov 15 19:19:06 2009

Master Calibration					
	Density		Far Detector		Near Detector
Magnesium	1.710	g/cc	1006.91	528.07	cps
Aluminum	2.610	g/cc	233.49	355.80	cps
Spine Angle = 74.88			Density/Spine Ratio = 0.594		
	Size		Reading		
Small Ring	8.00	in	3.68	V	
Large Ring	14.00	in	6.06	V	

Compensated Neutron Calibration Report
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Serial Number:	NEU 11
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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:		Sat Nov 14 16:52:22 2009				
Calibrator Value:		1.0		GAPI		
Background Reading:		0.0		cps		
Calibrator Reading:		1.0		cps		
Sensitivity:		0.5500		GAPI/cps		