



SUPERIOR
Hays,
Kansas

COMPENSATED
NEUTRON/DENSITY
PE LOG

Company		MULL DRILLING COMPANY, INC.	
Well		ALBERS #3-17	
Field		WILDCAT	
County		NESS	
State		KANSAS	
Location:		API # : 15-135-25084-0000	
SEC 17 TWP 17S RGE 23W		DIL/MEL SONIC	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 9' A.G.L.	
Drilling Measured From		KELLY BUSHING	
Elevation		K.B. 2465 D.F. 2463 G.L. 2456	
Date	7-23-10		
Run Number	ONE		
Depth Driller	4550		
Depth Logger	4550		
Bottom Logged Interval	4526		
Top Log Interval	3600		
Casing Driller	8 5/8" @ 218'		
Casing Logger	218		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7500 PPM	
Density / Viscosity	9.0/64		
pH / Fluid Loss	9.0/10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.65 @ 83F		
Rmf @ Meas. Temp	.48 @ 83F		
Rmc @ Meas. Temp	.78 @ 83F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.44 @ 120F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	120F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	KEVIN KESSLER		

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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
HWY 283 & HWY 4 - S. TO RD 210 - 1/2 E. TO FIRST CATTLEGUARD ON N.SIDE
OF RD. - 1 N. INTO

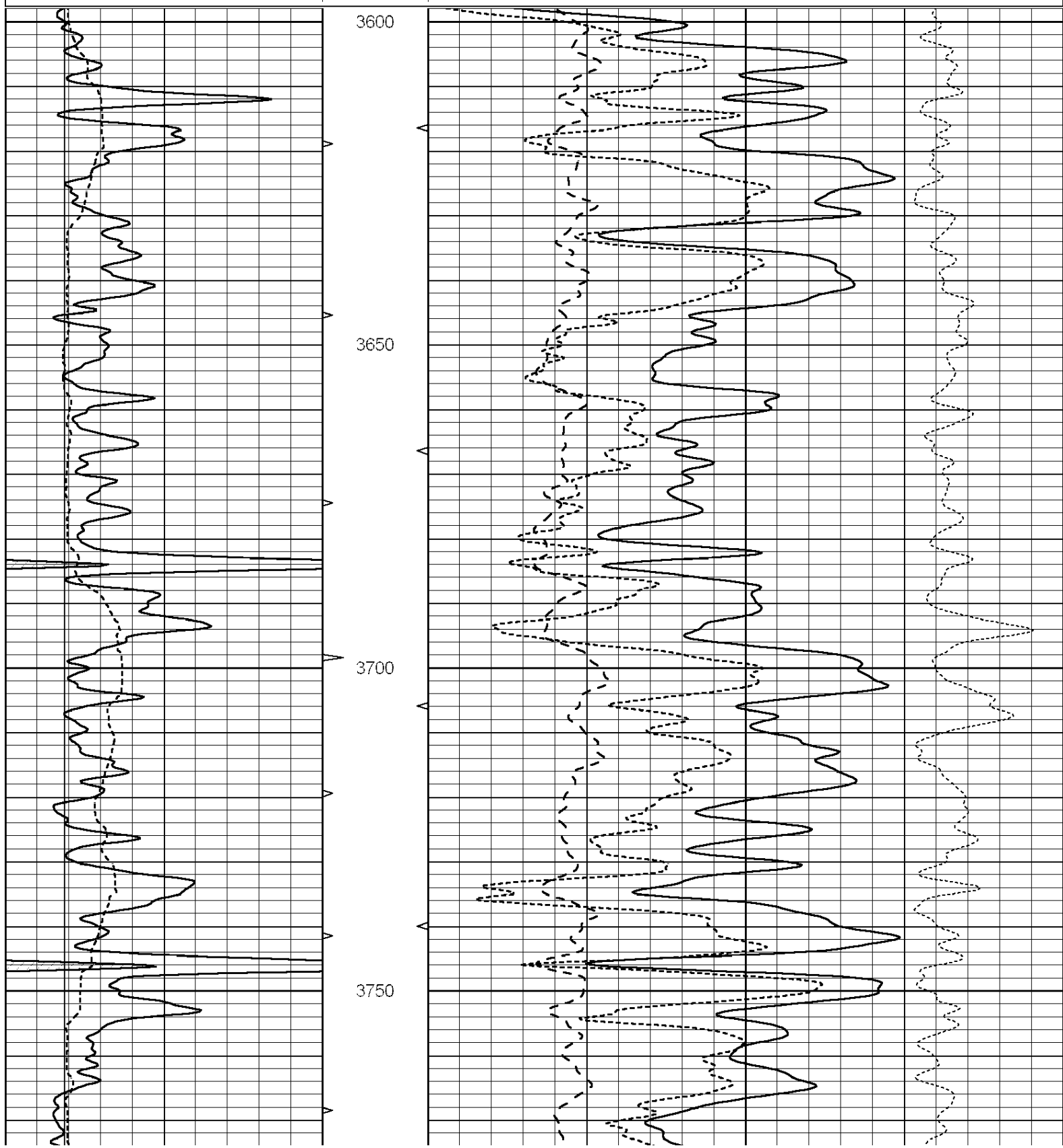


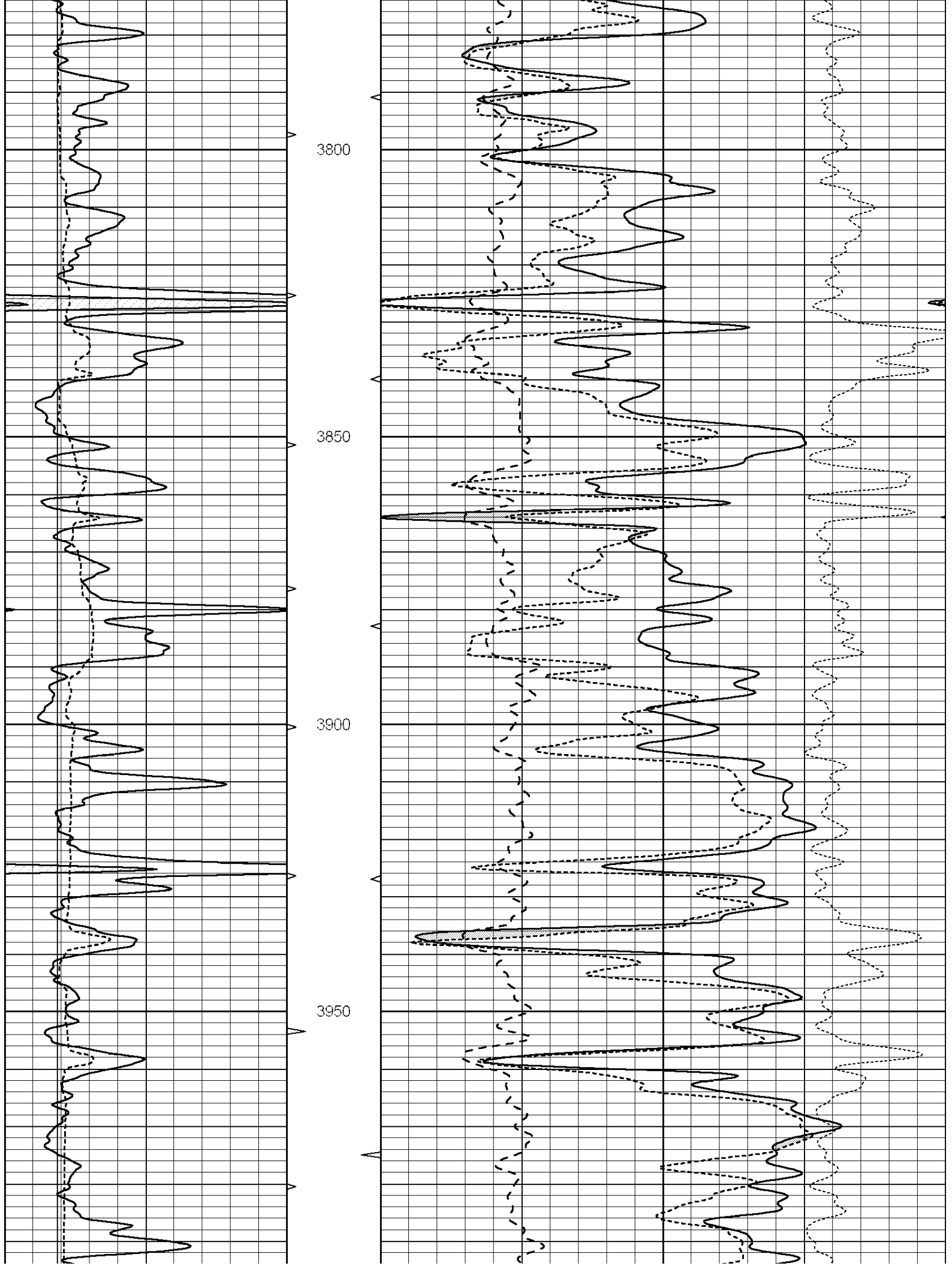
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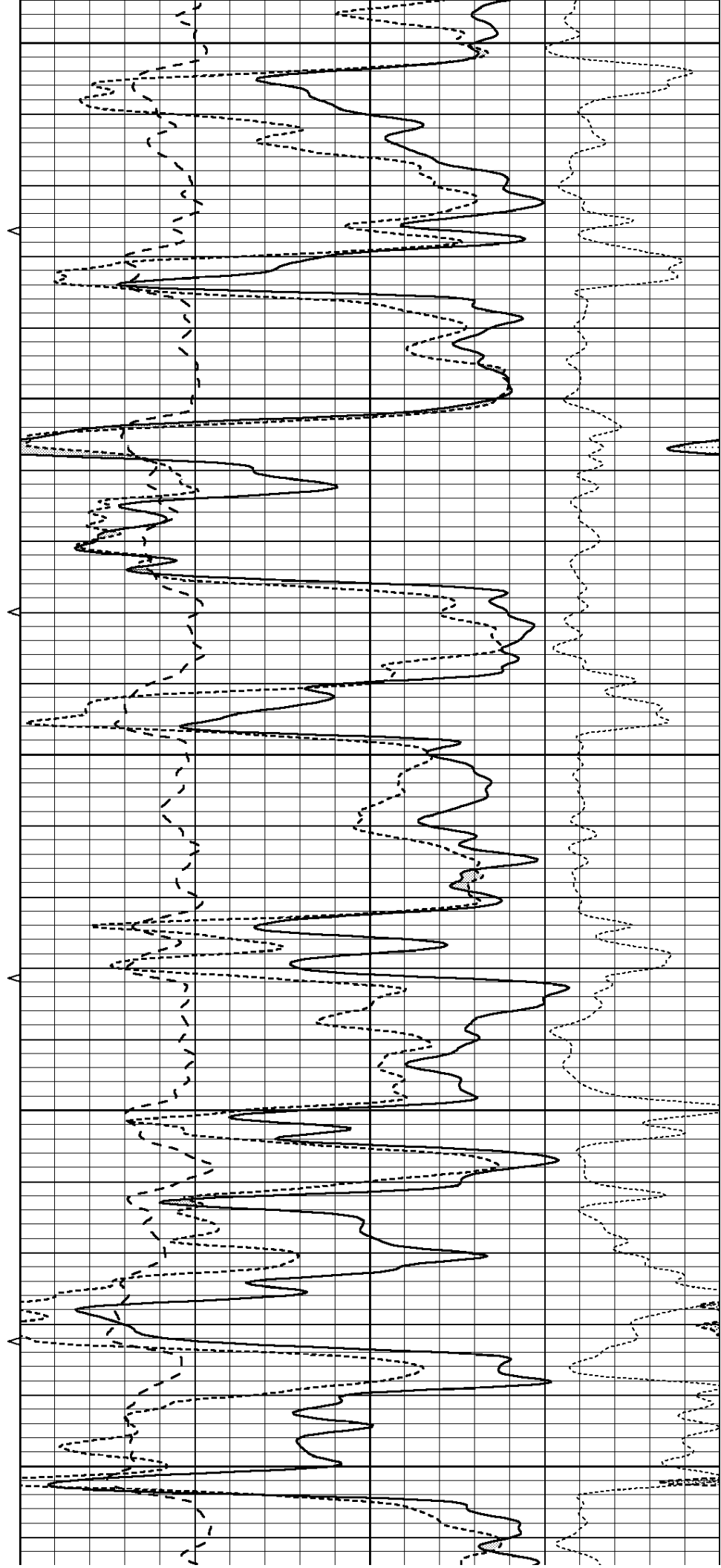
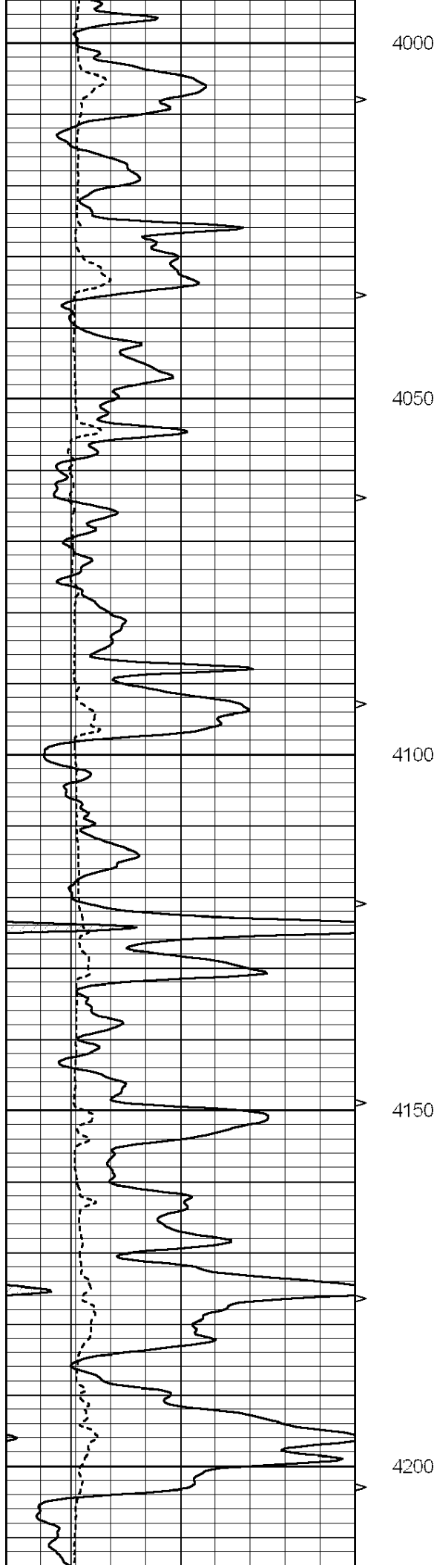
MAIN SECTION

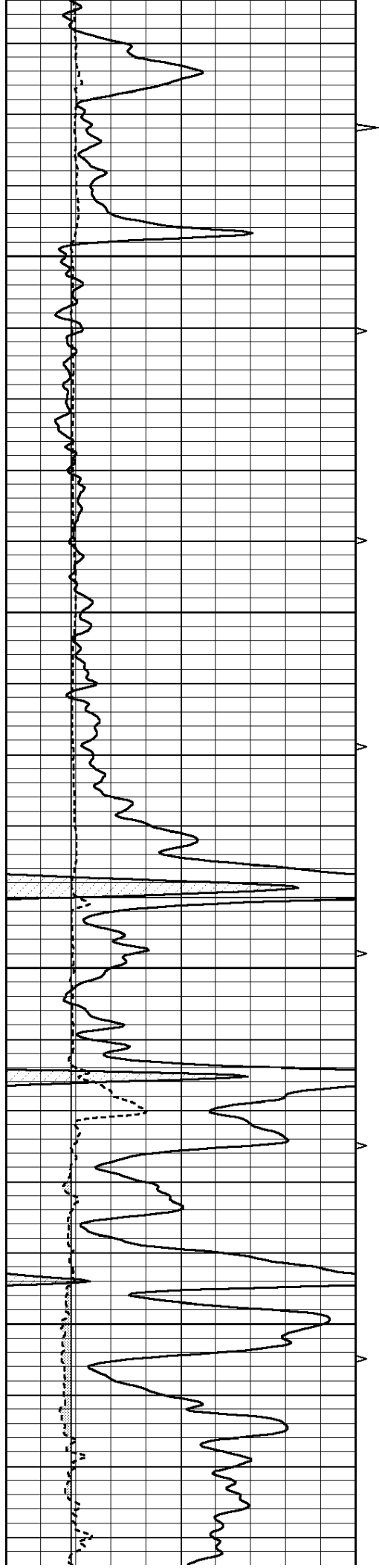
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Dataset Pathname: pass4.1
Presentation Format: _ldt_neu
Dataset Creation: Fri Jul 23 05:01:48 2010 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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







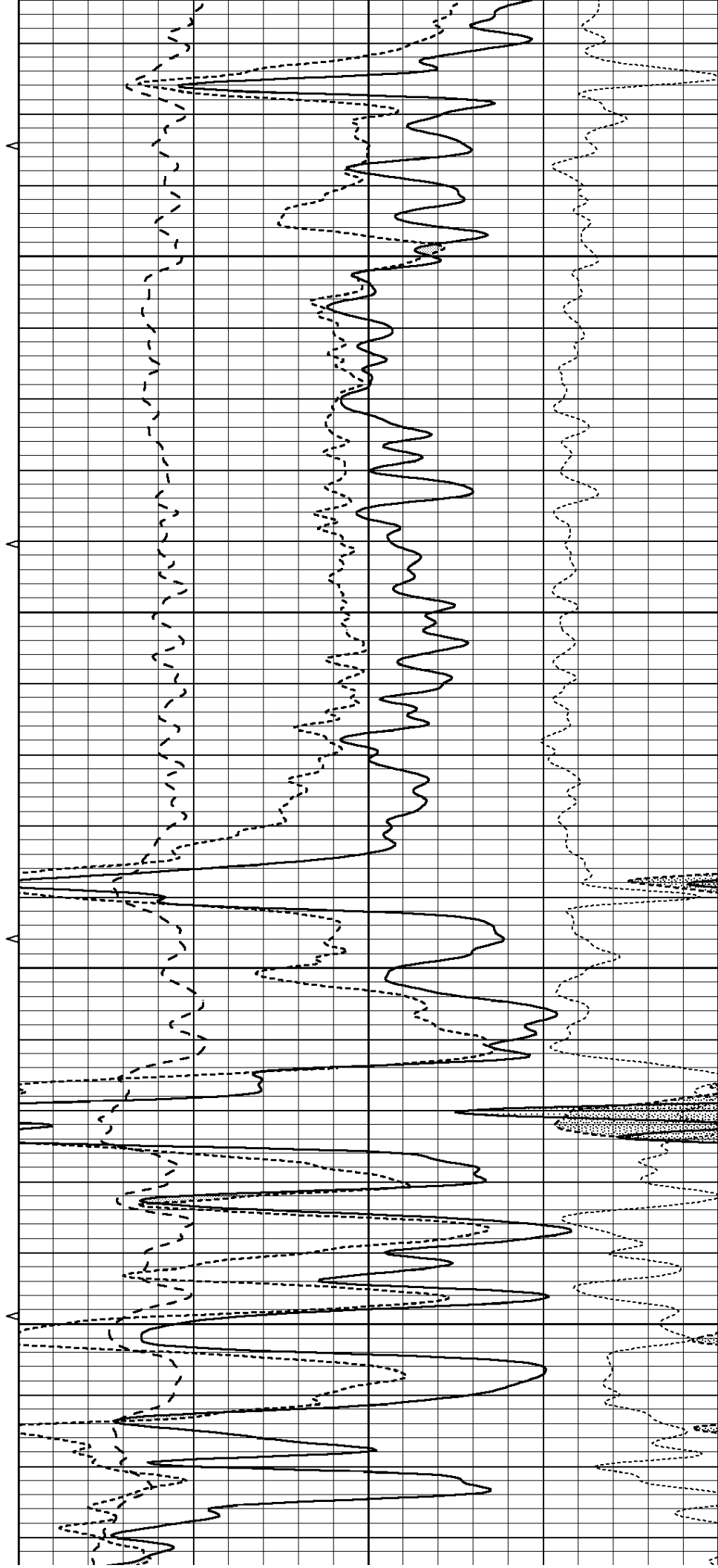


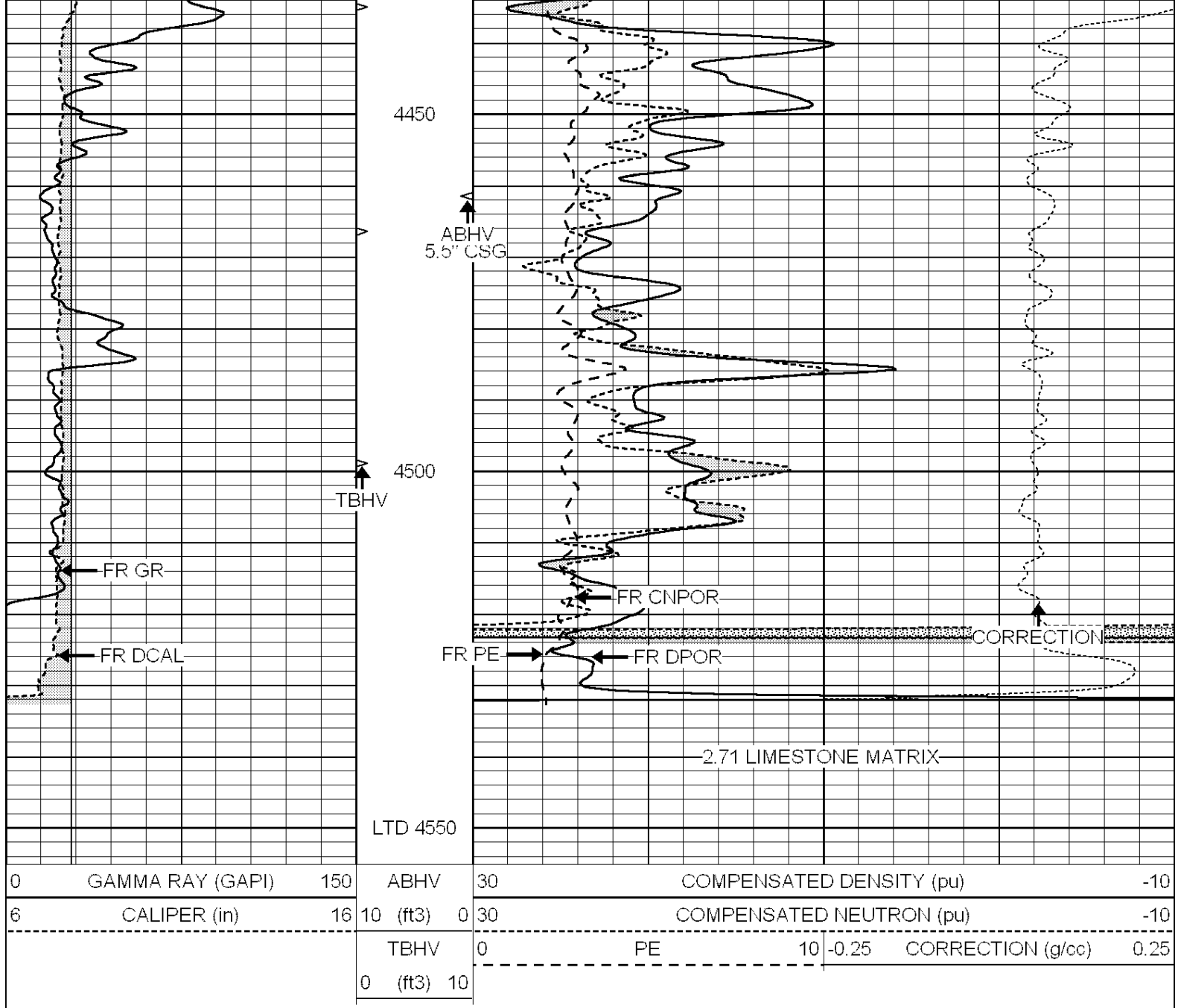
4250

4300

4350

4400

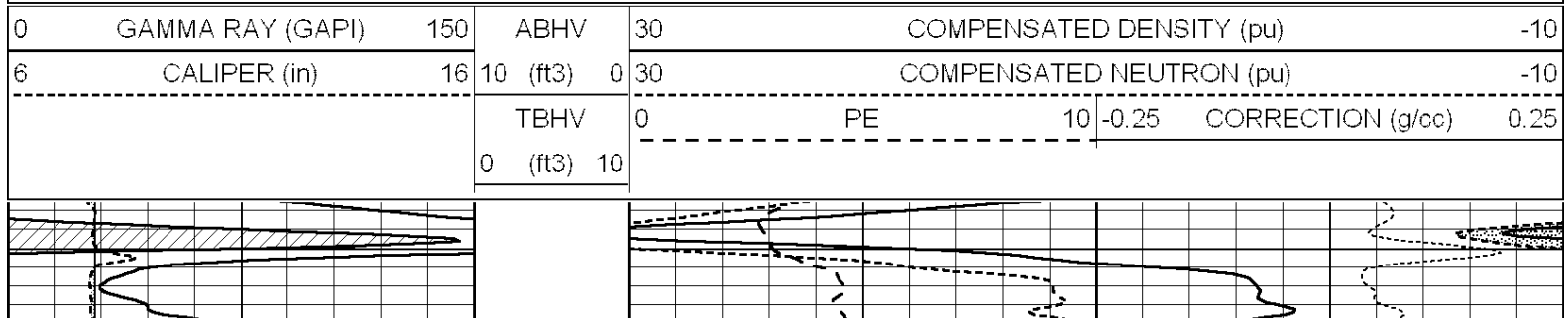


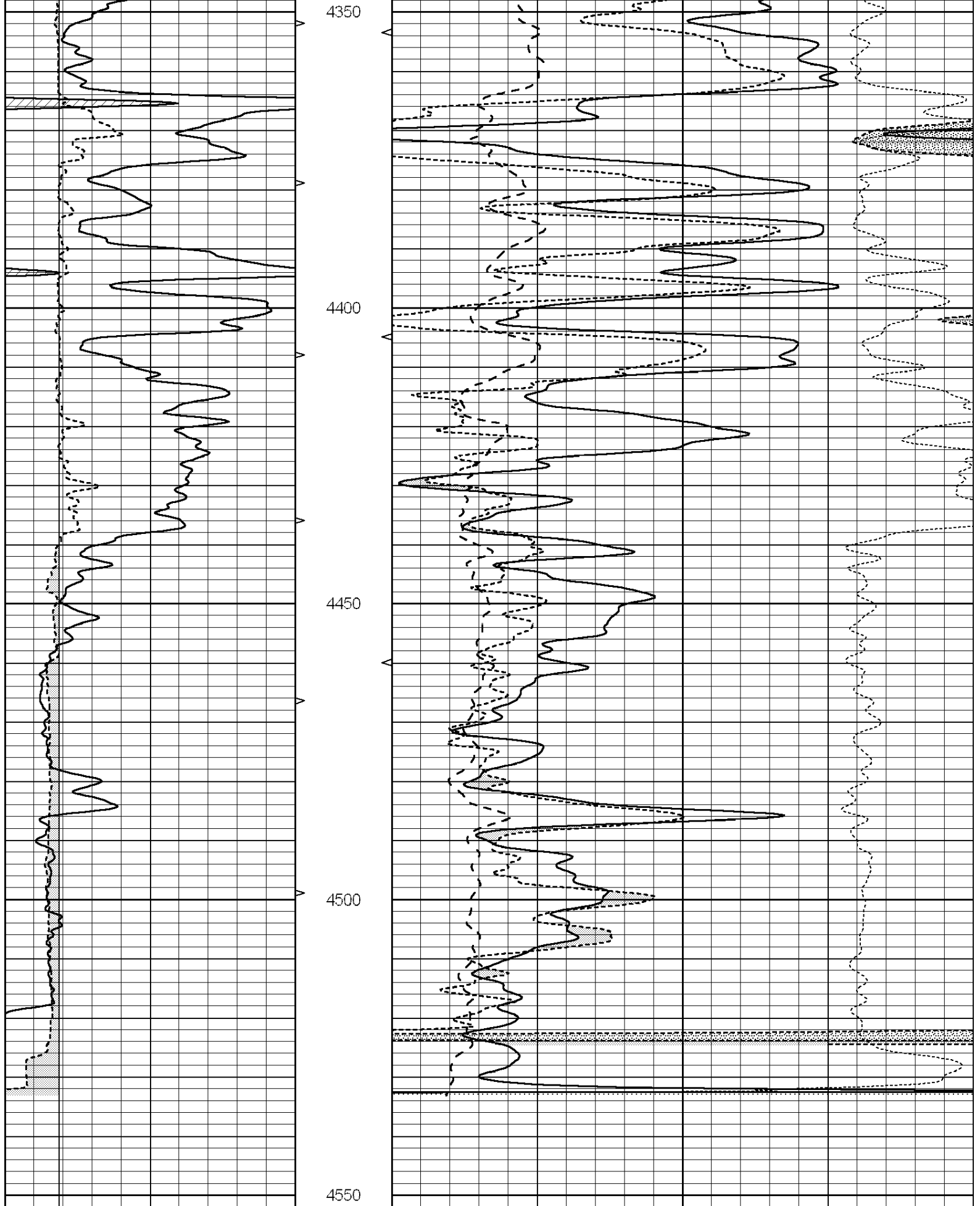


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REPEAT SECTION

Database File: 005414pe.db
Dataset Pathname: pass3.1
Presentation Format: _ldt_neu
Dataset Creation: Fri Jul 23 04:49:19 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
			TRHV	0	PF	10 0 25
					CORRECTION (d/dec)	0 25

Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	1056.3	9118.0	2809.7	10378.4	cps
Window 2	969.9	7671.9	2431.6	8565.8	cps
Window 3	683.8	2939.8	1161.0	3161.8	cps
Window 4	231.4	231.6	226.7	230.8	cps
Long Space	0.0	6702.0	1461.7	7595.9	cps
Short Space	1.2	1433.6	959.4	1568.6	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio	: 0.559

Spine Angle		: 75.2	Spine Slope		: 3.791	Spine Intercept		: -18.7
Caliper								
Low Ref	Readings	3.1	Reference		8.0			
High Ref		5.4			14.0			
	Gain: 2.5					Offset: 2.0		
Compensated Neutron Calibration Report								
			Serial Number:		5I			
			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:			GR6					
Tool Model:			OPEN					
Performed:			Wed Jul 14 14:14:30 2010					
Calibrator Value:			150.0	GAPI				
Background Reading:			0.0	cps				
Calibrator Reading:			276.0	cps				
Sensitivity:			0.5335	GAPI/cps				