



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
LOG

Company RITCHIE EXPLORATION, INC.
Well #1 HESS UNIT
Field WILDCAT
County GOVE
State KANSAS

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Well #1 HESS UNIT
Field WILDCAT
County GOVE State KANSAS

Location: API # : 15-063-21781-0000
1600' FSL & 51' FEL
SE - NE - SE
SEC 20 TWP 13S RGE 31W
Permanent Datum GROUND LEVEL Elevation 2877
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
DIL
Elevation
K.B. 2886
D.F. 2884
G.L. 2877

Date	6/26/09		
Run Number	ONE		
Depth Driller	4577		
Depth Logger	4580		
Bottom Logged Interval	4556		
Top Log Interval	3700		
Casing Driller	8 5/8" @ 232'		
Casing Logger	230		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7.200 PPM	
Density / Viscosity	9.070		
pH / Fluid Loss	10.077 6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.500 @ 99F		
Rmf @ Meas. Temp	.375 @ 99F		
Rmc @ Meas. Temp	.600 @ 99F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.409 @ 121F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	1:45 P.M.		
Maximum Recorded Temperature	121F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
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

THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
OAKLEY, KS. 11S. ON HWY 83 TO GOVE RD., 3E., 4S., 1E., N. INTO

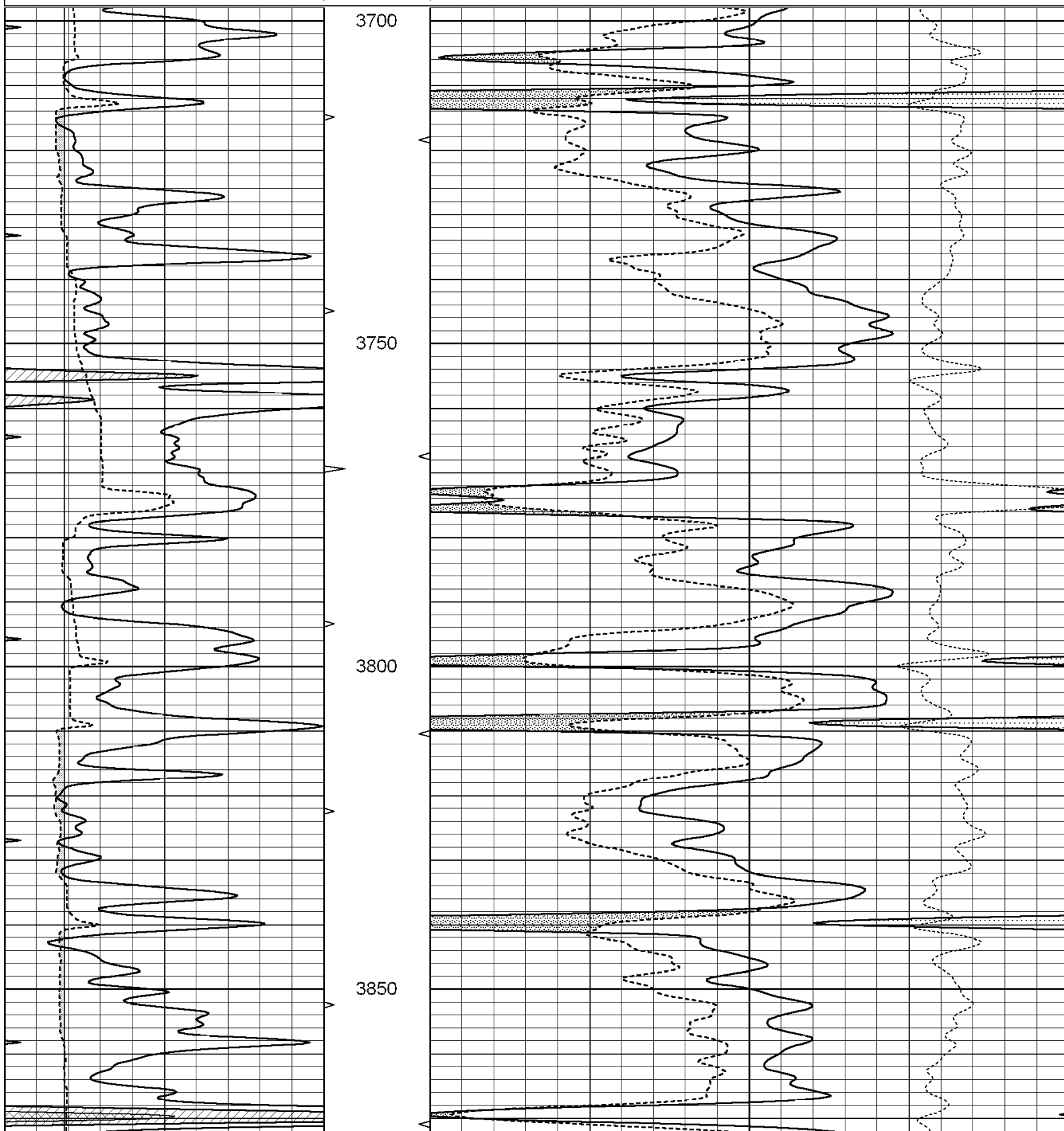


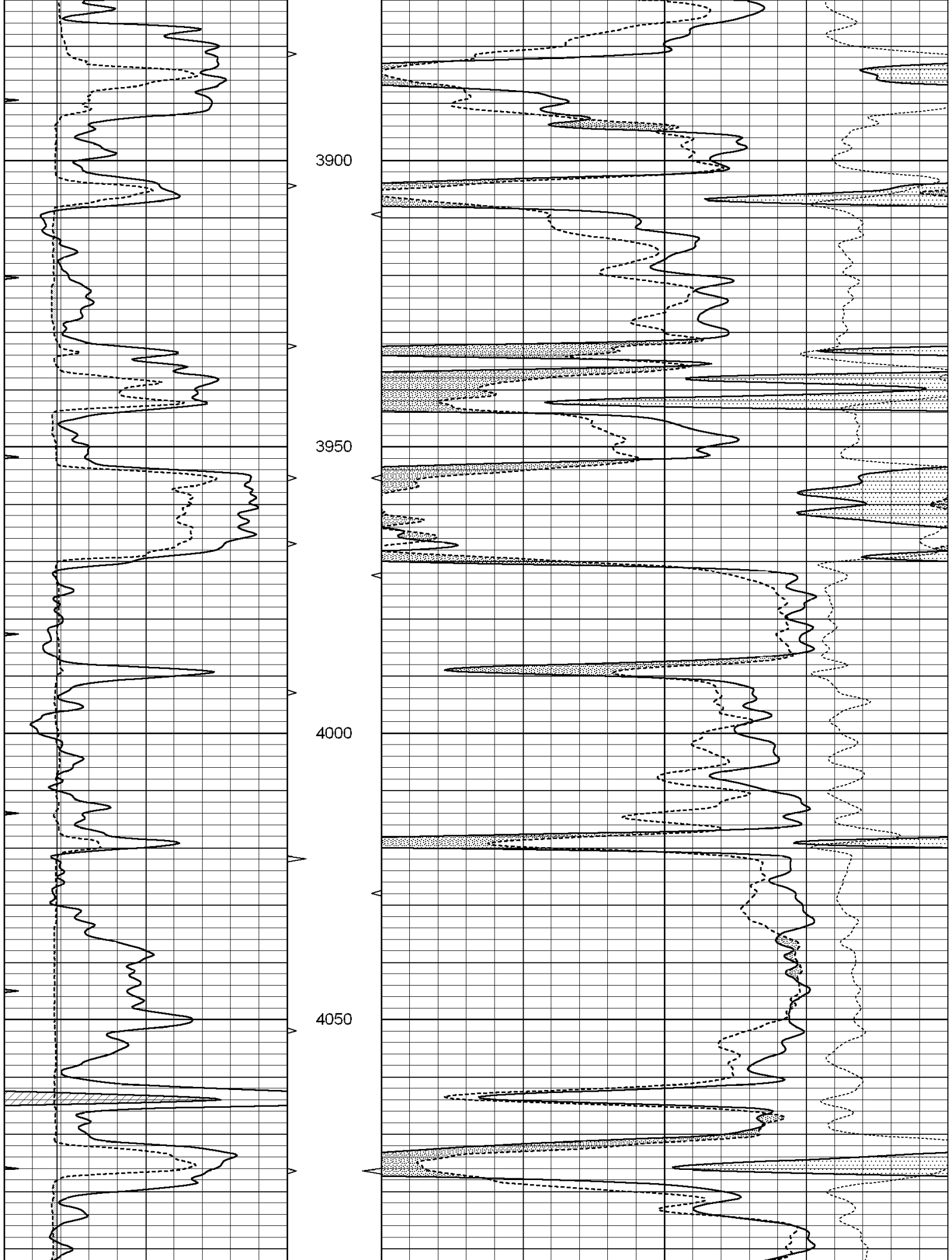
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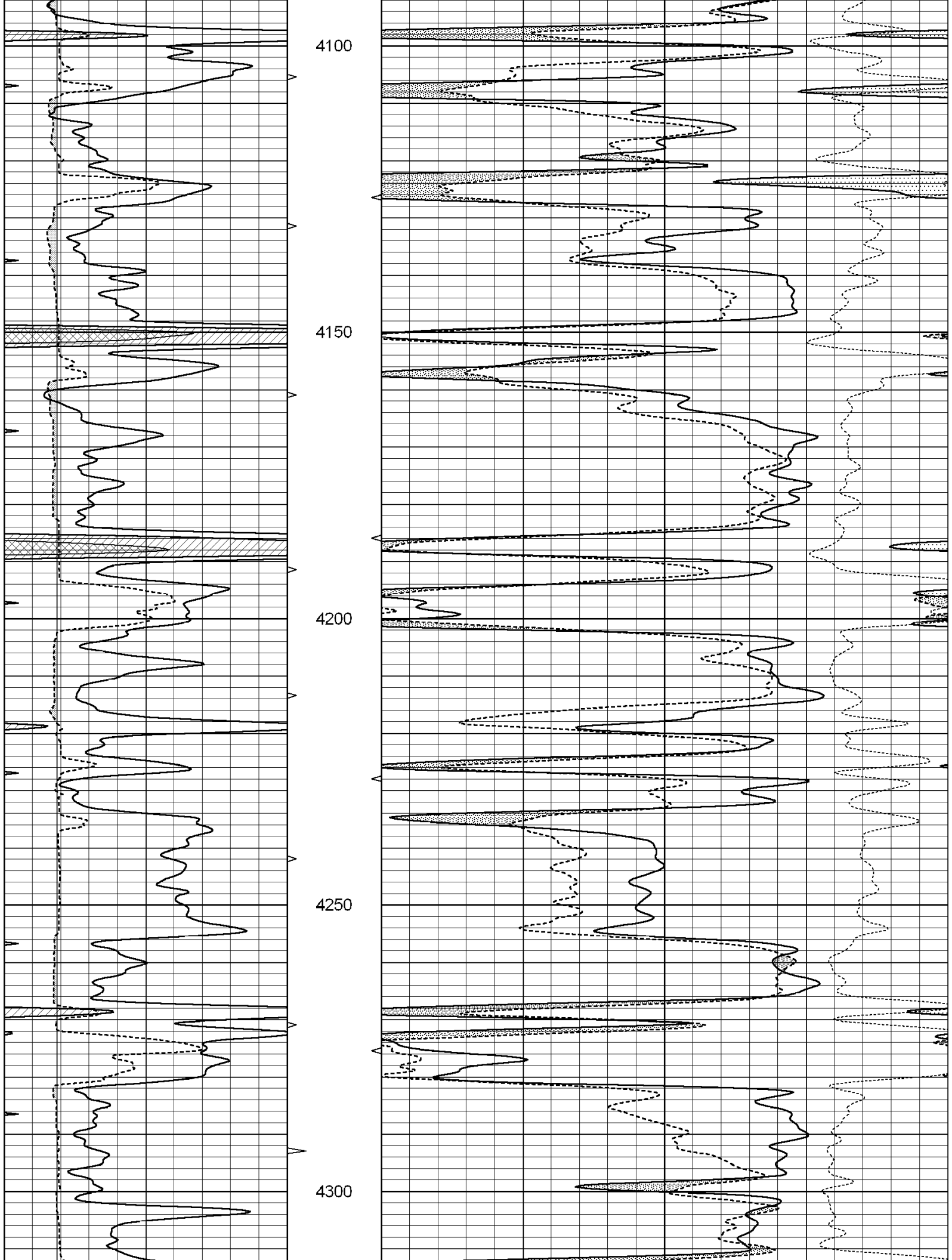
MAIN SECTION

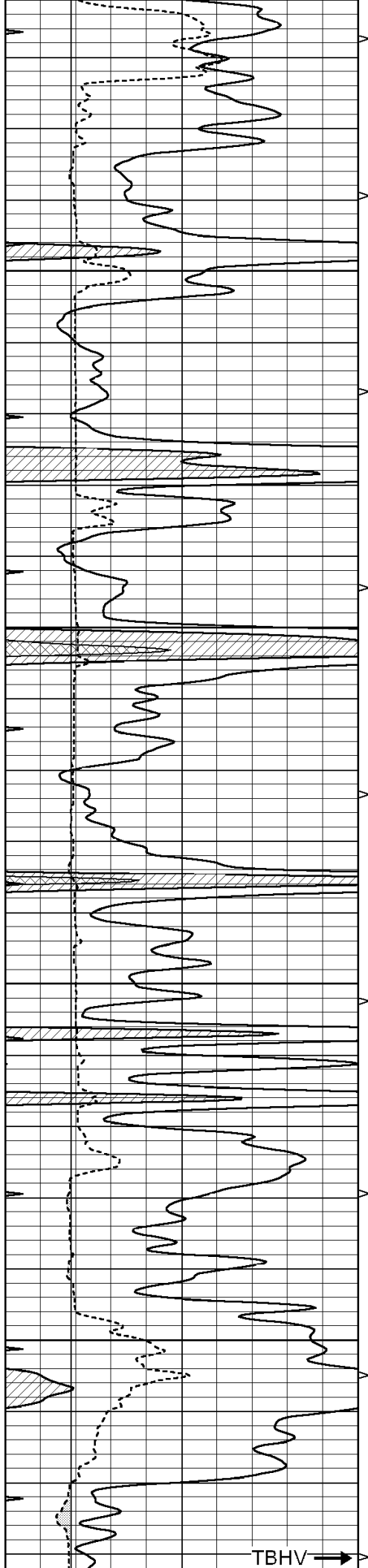
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Dataset Pathname: pass4.5
Presentation Format: den_neu
Dataset Creation: Fri Jun 26 14:33:07 2009
Charted by: Depth in Feet scaled 1:240

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			









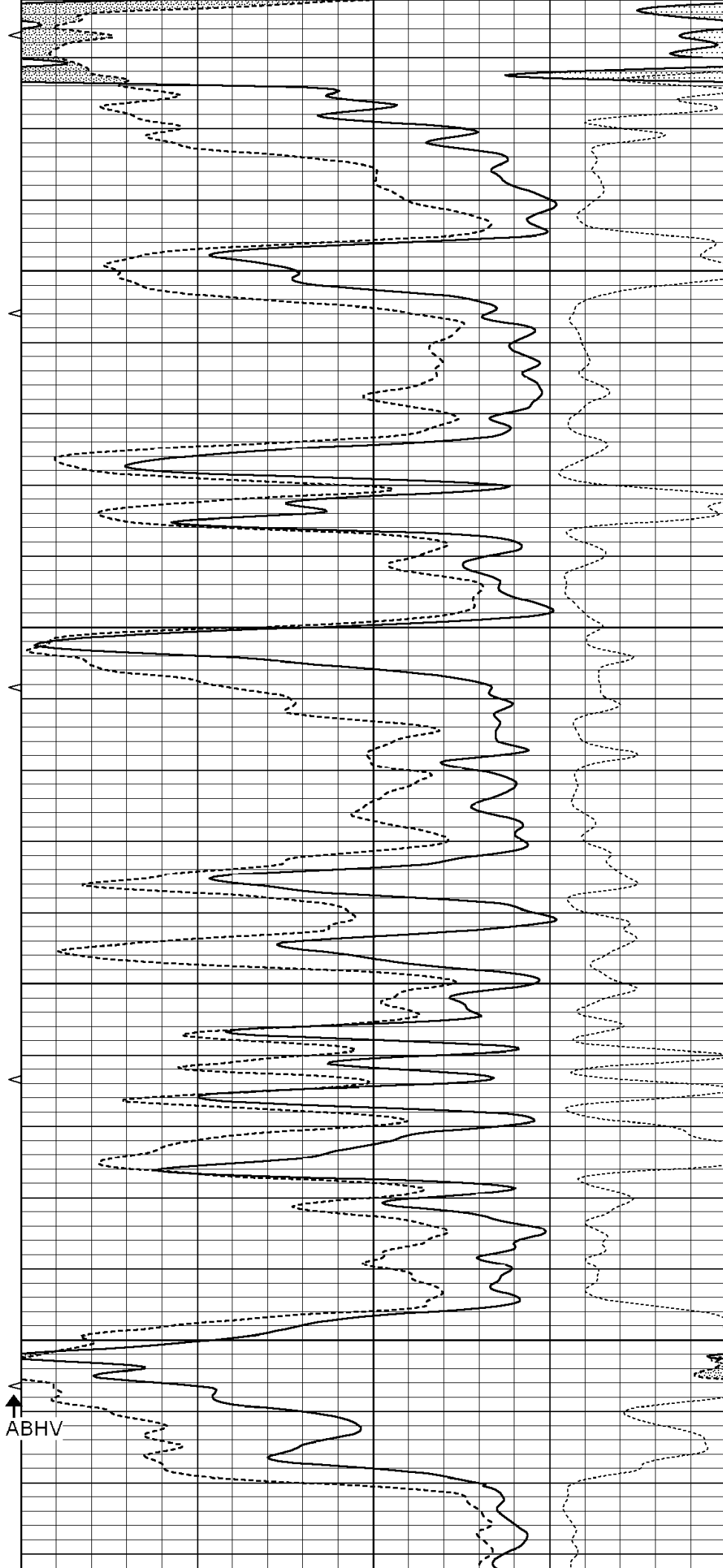
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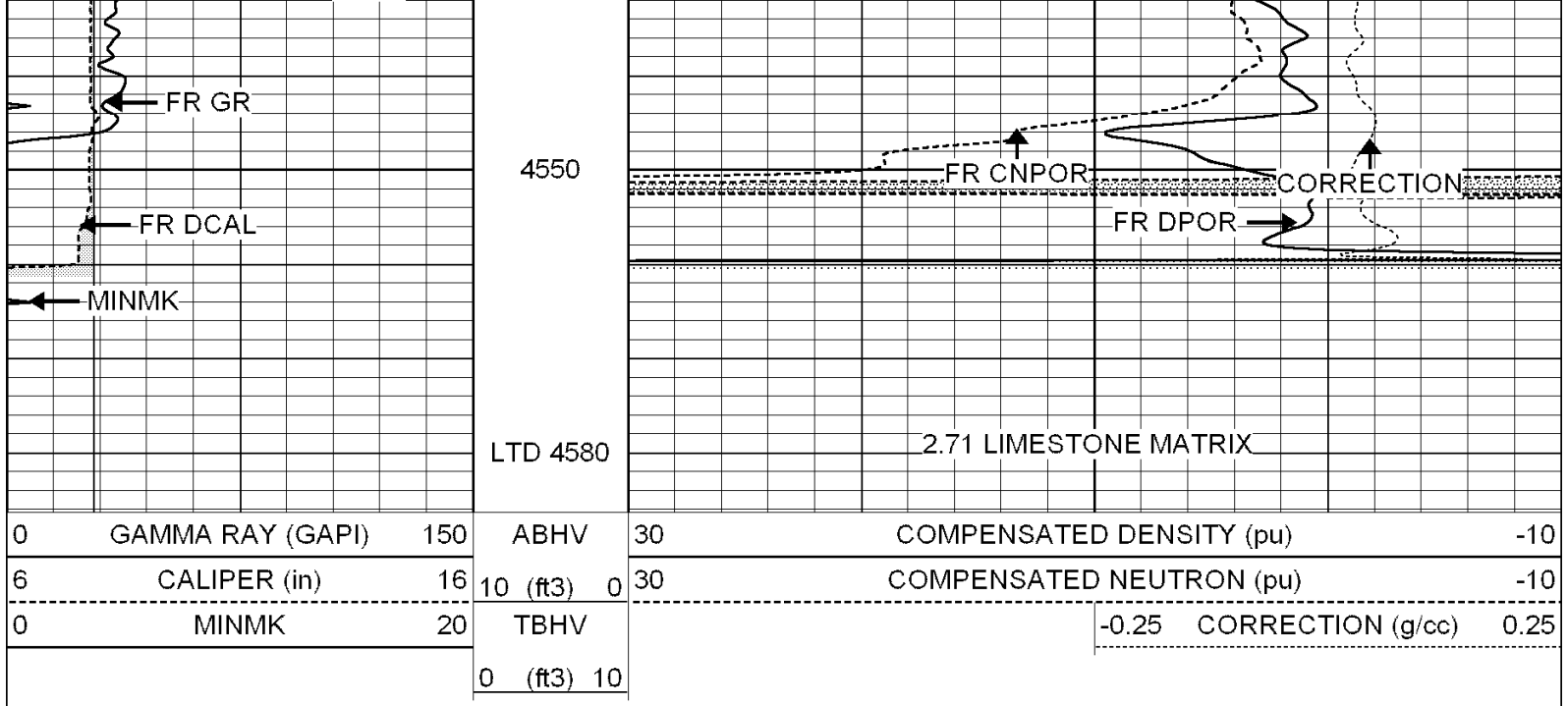
4400

4450

4500

5.5" ABHV



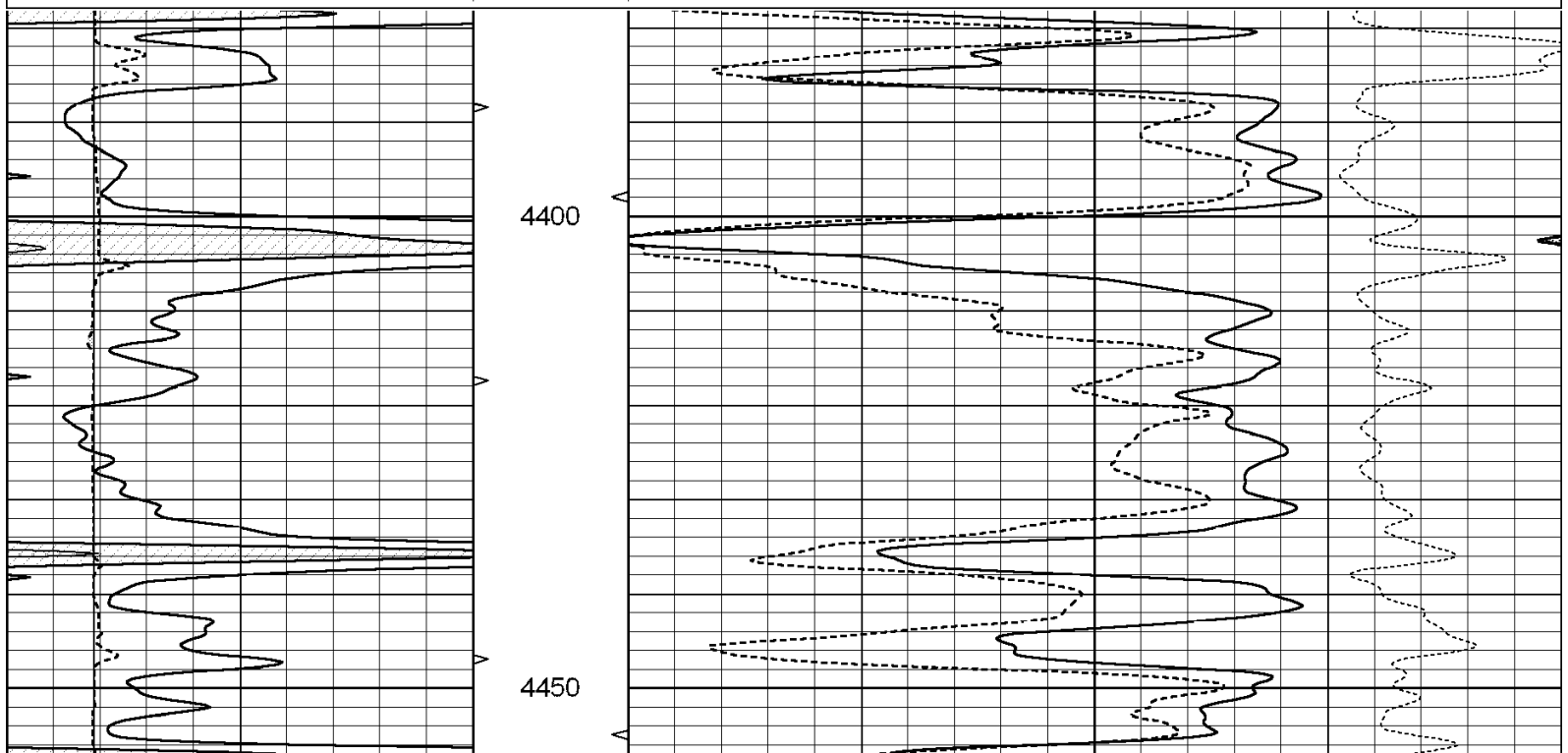


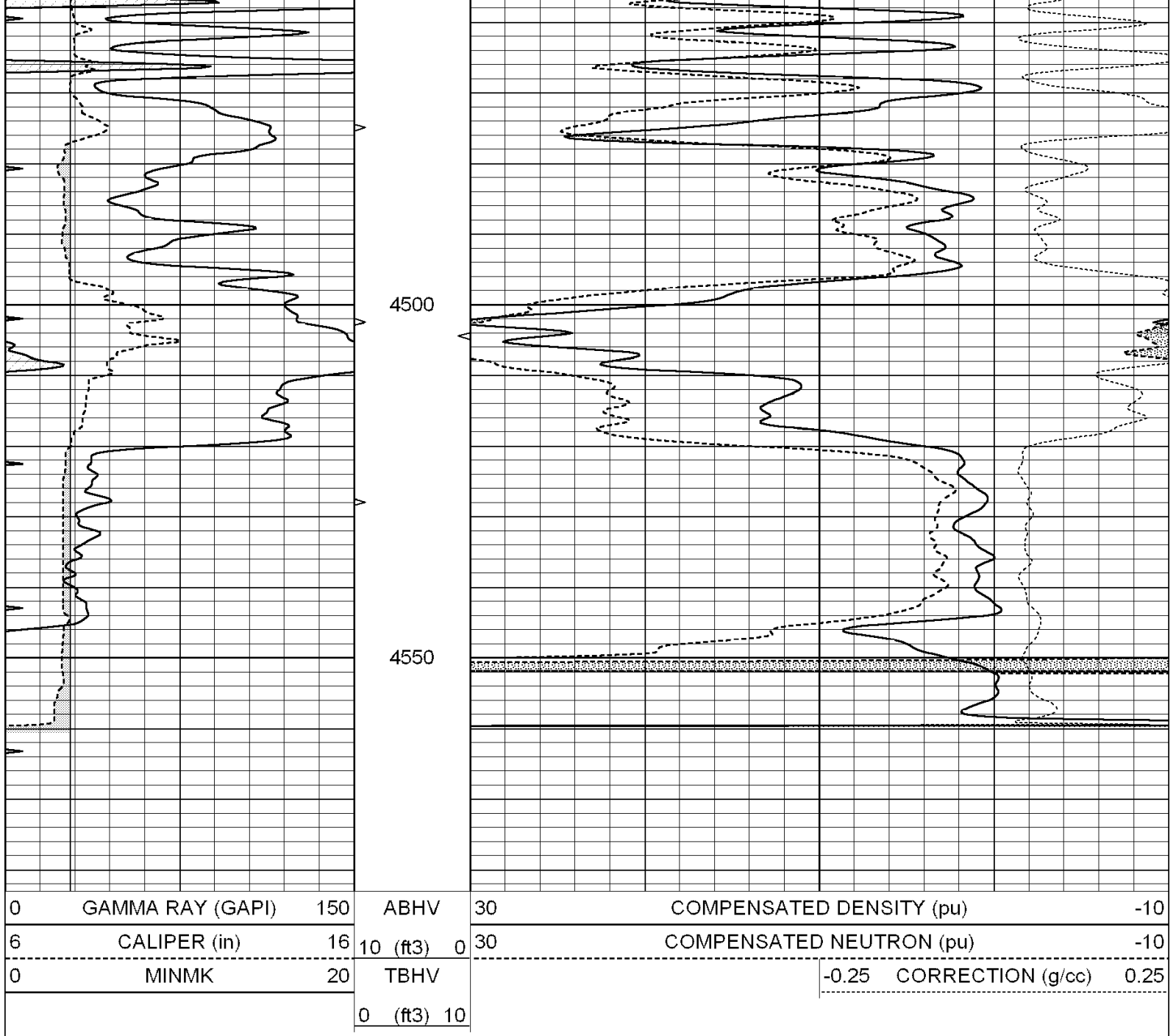
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REPEAT SECTION

Database File: 003528ddn.db
 Dataset Pathname: pass3.6
 Presentation Format: den_neu
 Dataset Creation: Fri Jun 26 14:17:04 2009 by Calc Open-Cased 060407
 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:		003528ddn.db						
Dataset Pathname:		pass4.5						
Dataset Creation:		Fri Jun 26 14:33:07 2009						
Dual Induction Calibration Report								
Serial-Model:			DIL2-GEAR					
Performed:			Fri Jun 26 13:53:49 2009					
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.667	V	0.000	400.000	mmho-m	650.000	6.000
Medium	-0.003	0.739	V	0.000	462.500	mmho-m	750.000	-15.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.658	V	0.000	400.000	mmho-m	609.010	-0.700
Medium	0.015	0.761	V	0.000	462.500	mmho-m	620.392	-9.326

Litho Density Calibration Report Serial: 003N Model: PRB Performed Mon Jun 08 10:53:05 2009					
Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	2028.8	12047.1	4181.3	13199.9	cps
Window 2	1822.8	9337.8	3431.4	10000.3	cps
Window 3	1564.8	5811.2	2442.8	6095.5	cps
Window 4	469.1	474.6	468.9	469.9	cps
Long Space	0.0	7514.9	1608.6	8177.4	cps
Short Space	1.9	2397.2	1539.5	2522.0	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.0	Rib Slope	: 0.965	Density/Spine Ratio	: 0.549
Spine Angle	: 74.0	Spine Slope	: 3.481	Spine Intercept	: -18.2
Caliper	Readings	Reference			
Low Ref	2.1	6.4			
High Ref	4.4	14.0			
	Gain: 3.2		Offset: -0.3		
Compensated Neutron Calibration Report					
	Serial Number:		NEU_3I		
	Tool Model:		G		
CALIBRATION					
	Detector	Readings	Target	Normalization	
	Short Space	997.00 cps	1000.00 cps	1.0000	
	Long Space	986.00 cps	1000.00 cps	1.0000	
Gamma Ray Calibration Report					
	Serial Number:	GR3			
	Tool Model:	OPEN			
	Performed:	Fri Jun 26 13:53:36 2009			
	Calibrator Value:	200.0	GAPI		
	Background Reading:	3.0	cps		
	Calibrator Reading:	186.0	cps		
	Sensitivity:	0.4500	GAPI/cps		