



**SUPERIOR
Hays,
Kansas**

**COMPENSATED
DENSITY/NEUTRON
PE LOG**

Company	BEREXCO, INC.	Location:	API # : 15-057-20629-0000	Other Services
Well	MELBA #1-32			
Field	WILDCAT			
County	FORD			
State	KANSAS			
		Permanent Datum	GROUND LEVEL	Elevation
		Log Measured From	KELLY BUSHING 13' A.G.L.	2473
		Drilling Measured From	KELLY BUSHING	
		SEC 32	TWP 29S	RGE 22W
		DIL MEL/SONIC		
		Elevation		
		K.B. 2486		
		D.F. 2484		
		G.L. 2473		
Date	27 JAN 09			
Run Number	CNE			
Depth Driller	5459			
Depth Logger	5452			
Bottom Logged Interval	5428			
Top Log Interval	4350			
Casing Driller	8 5/8 @ 645'			
Casing Logger	645			
Bit Size	7 7/8			
Type Fluid in Hole	CHEMICAL MUD			
Density / Viscosity	9.4/43	CHLORIDES 8,500		
pH / Fluid Loss	9.0/11.2			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	0.58 @ 64			
Rmf @ Meas. Temp	0.43 @ 64			
Rmc @ Meas. Temp	0.69 @ 64			
Source of Rmf / Rmc	CAL/CAL			
Rm @ BHT	0.28 @ 129F			
Time Circulation Stopped	2 HOURS			
Time Logger on Bottom	0001			
Maximum Recorded Temperature	129F			
Equipment Number	680			
Location	HAYS, KS			
Recorded By	DUGAN DENTON	JOE CRATHORNE		
Witnessed By	JIM HICKMAN	G. KORALEGEDARA		

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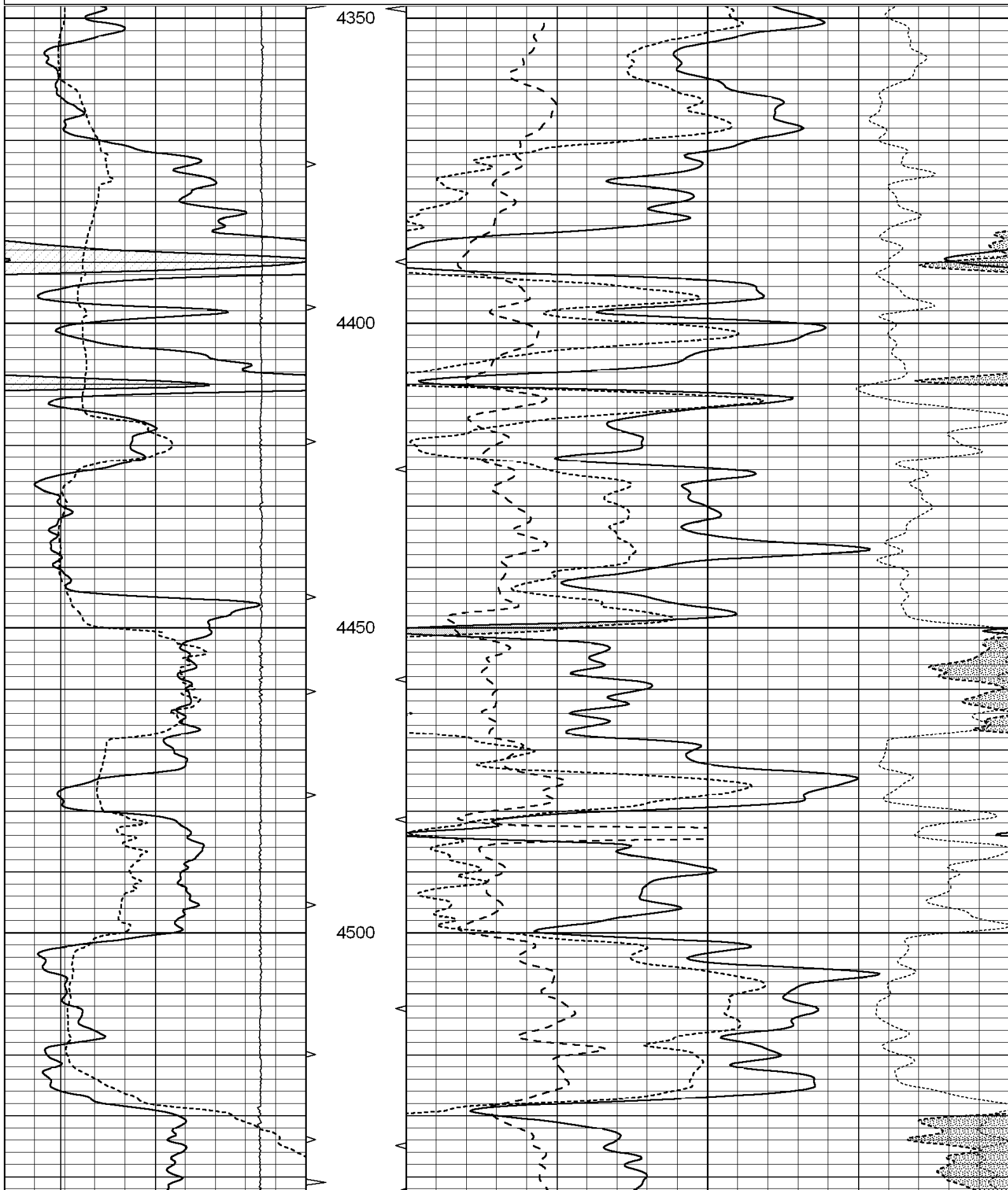
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

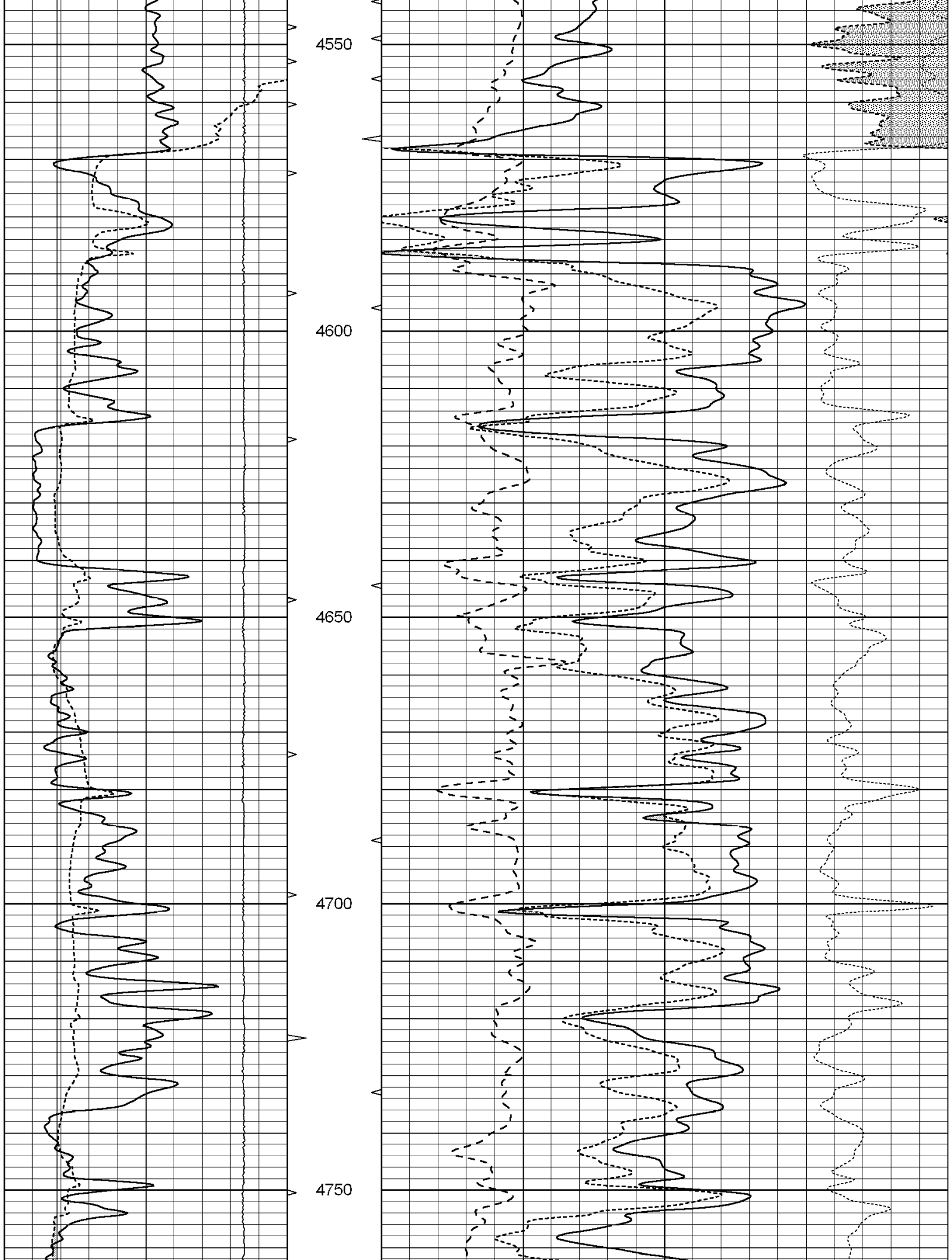
Comments

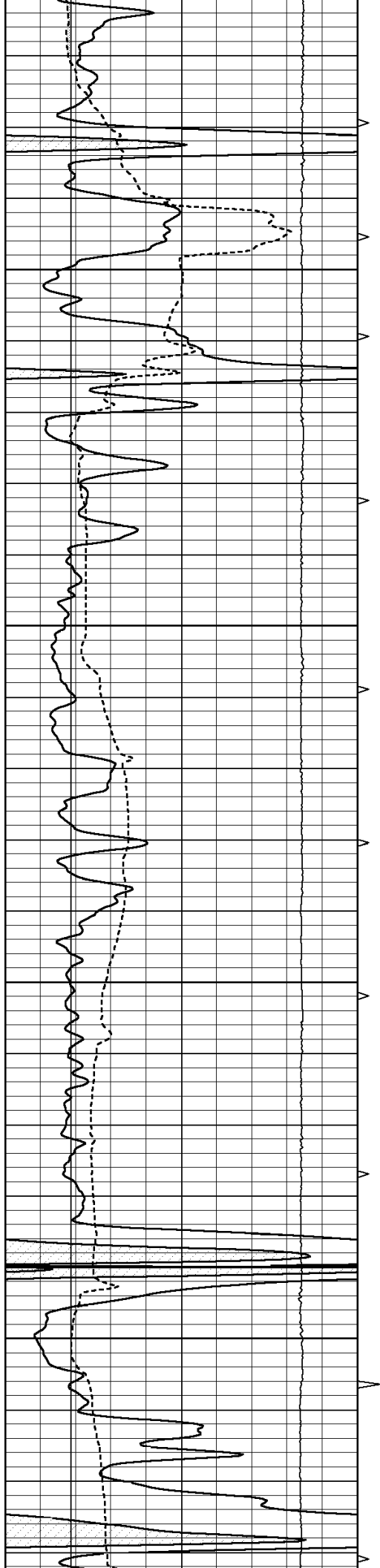
THANK YOU FOR USING SUPERIOR WELL SERVICES
HAYS, KS. 785-628-6395

DIRECTIONS: KINGSDOWN; 3 1/4 MILES SOUTH ON BLACKTOP, 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
10000	LTEN (lb)	0	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10			





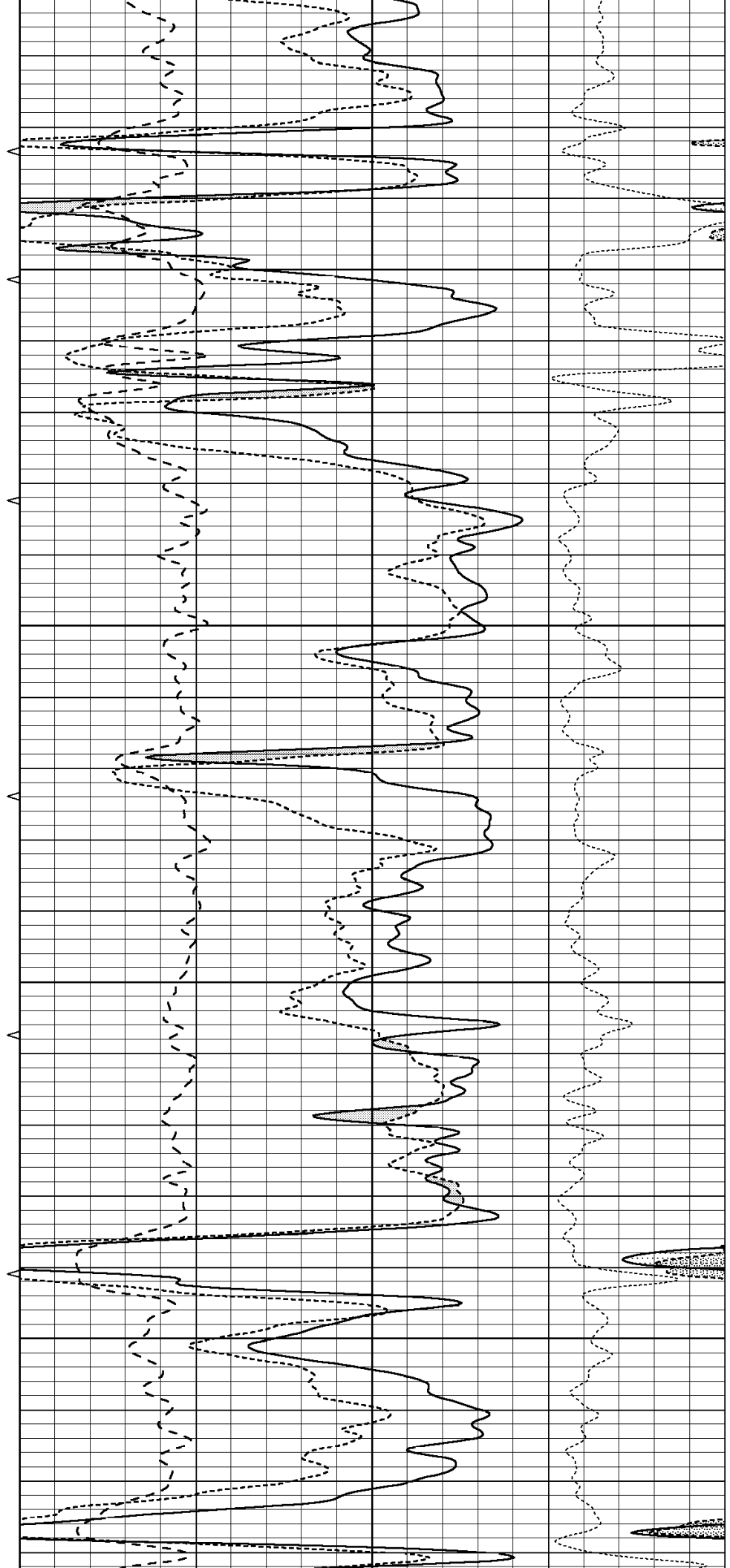


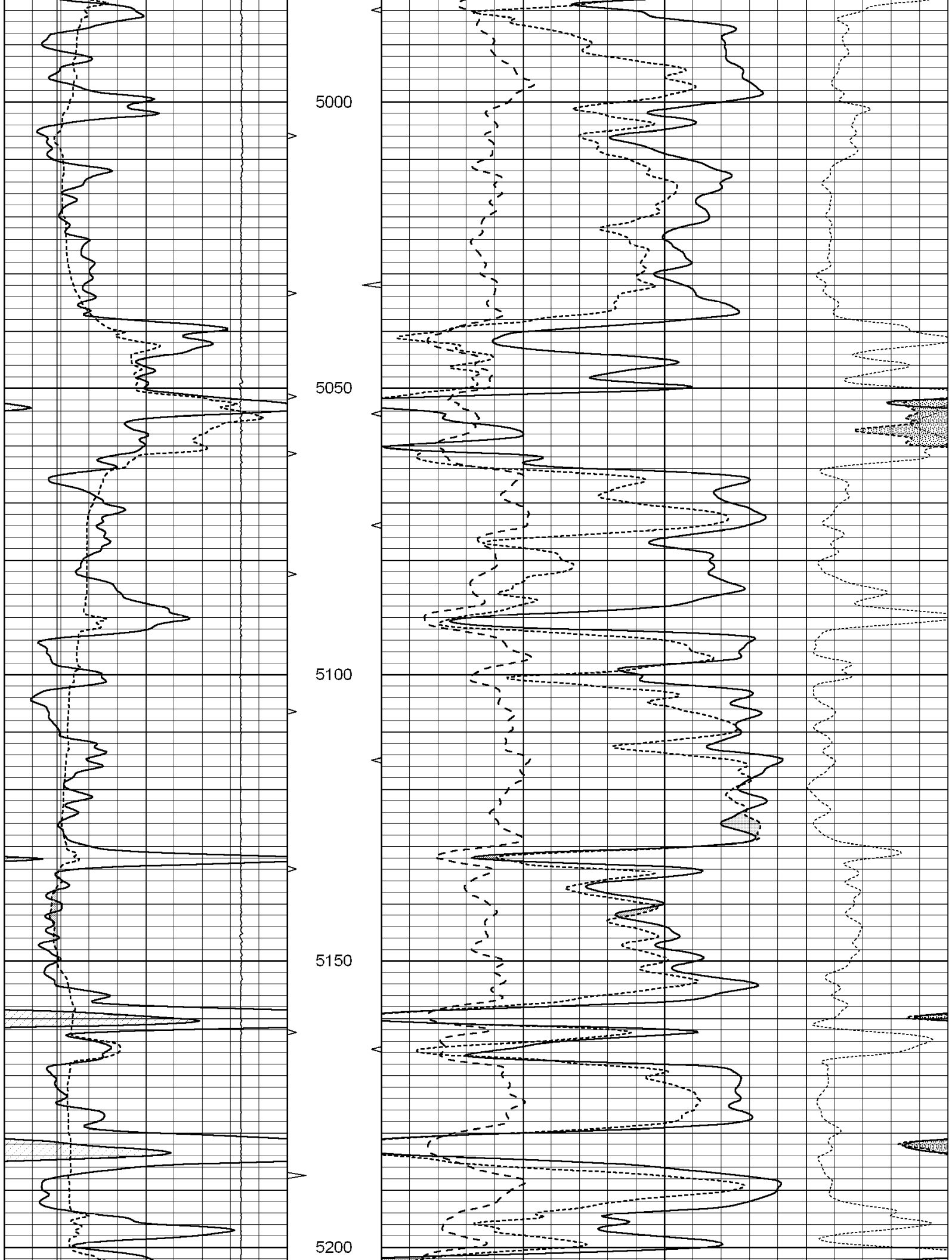
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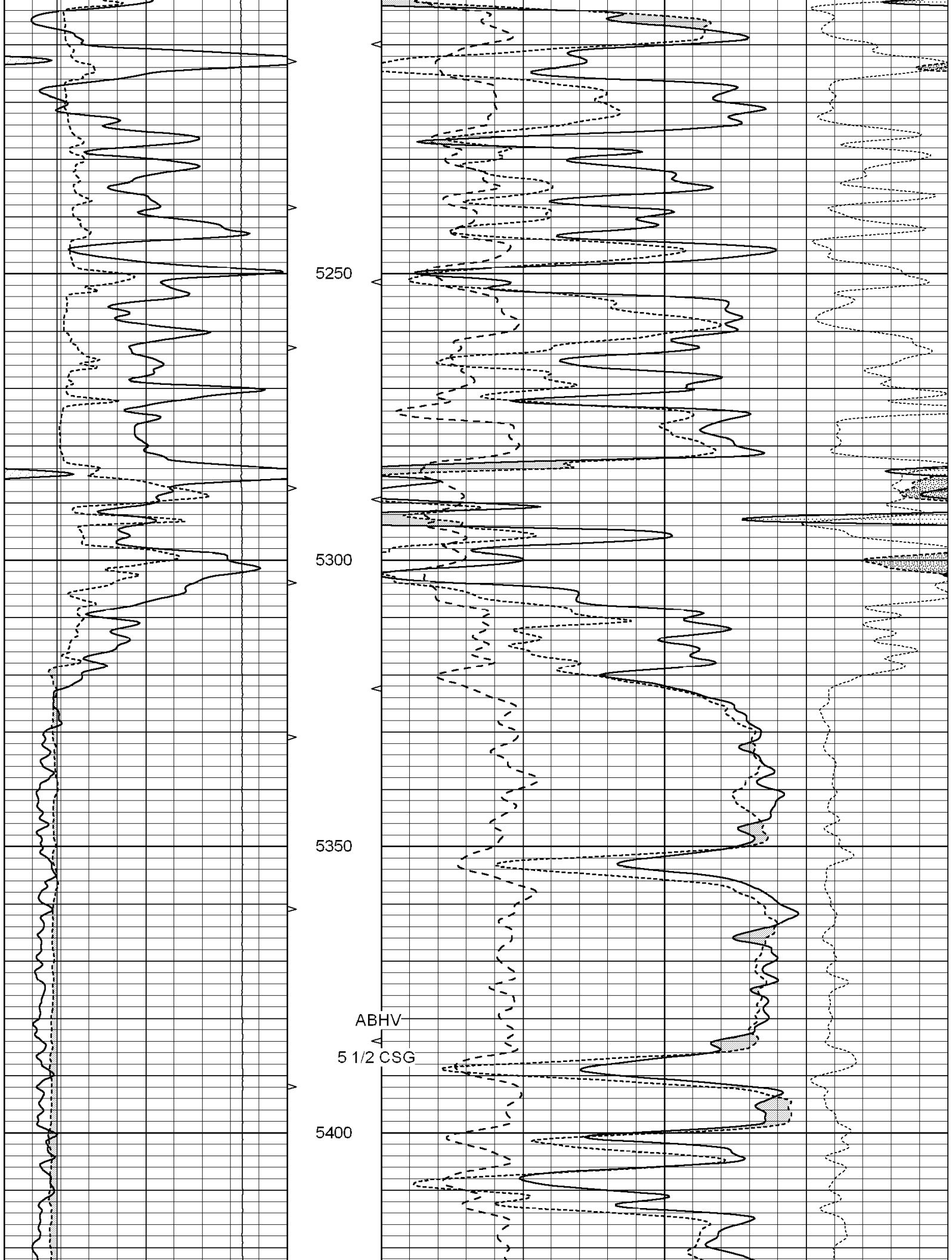
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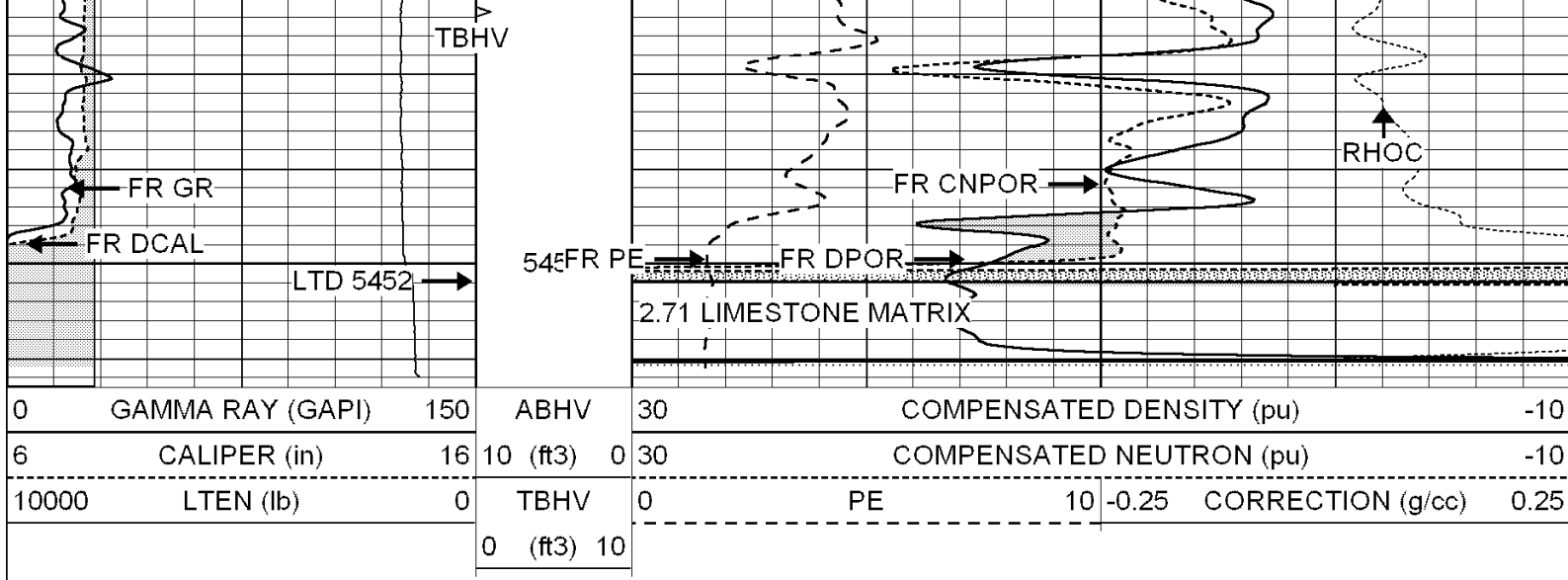
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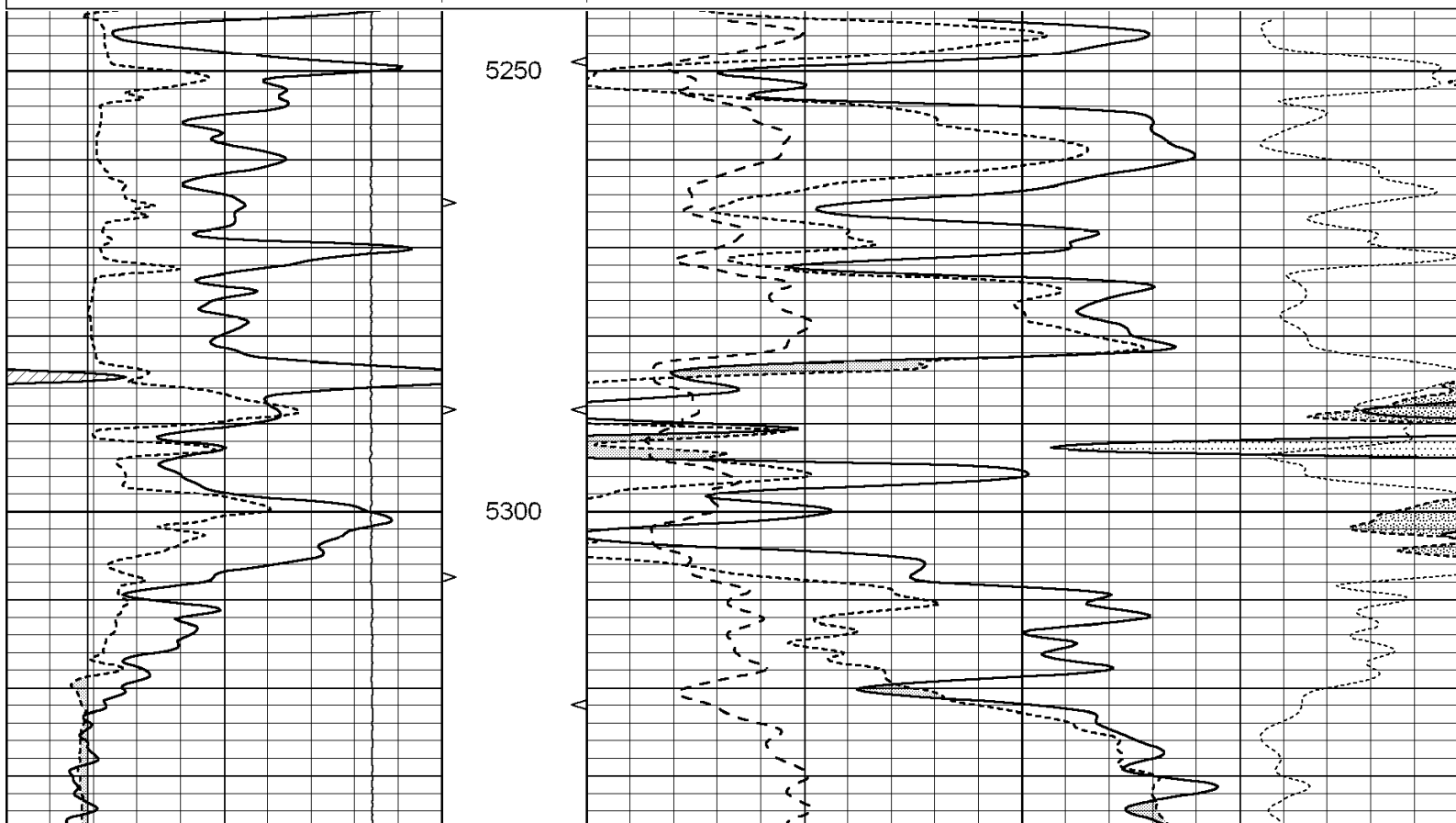


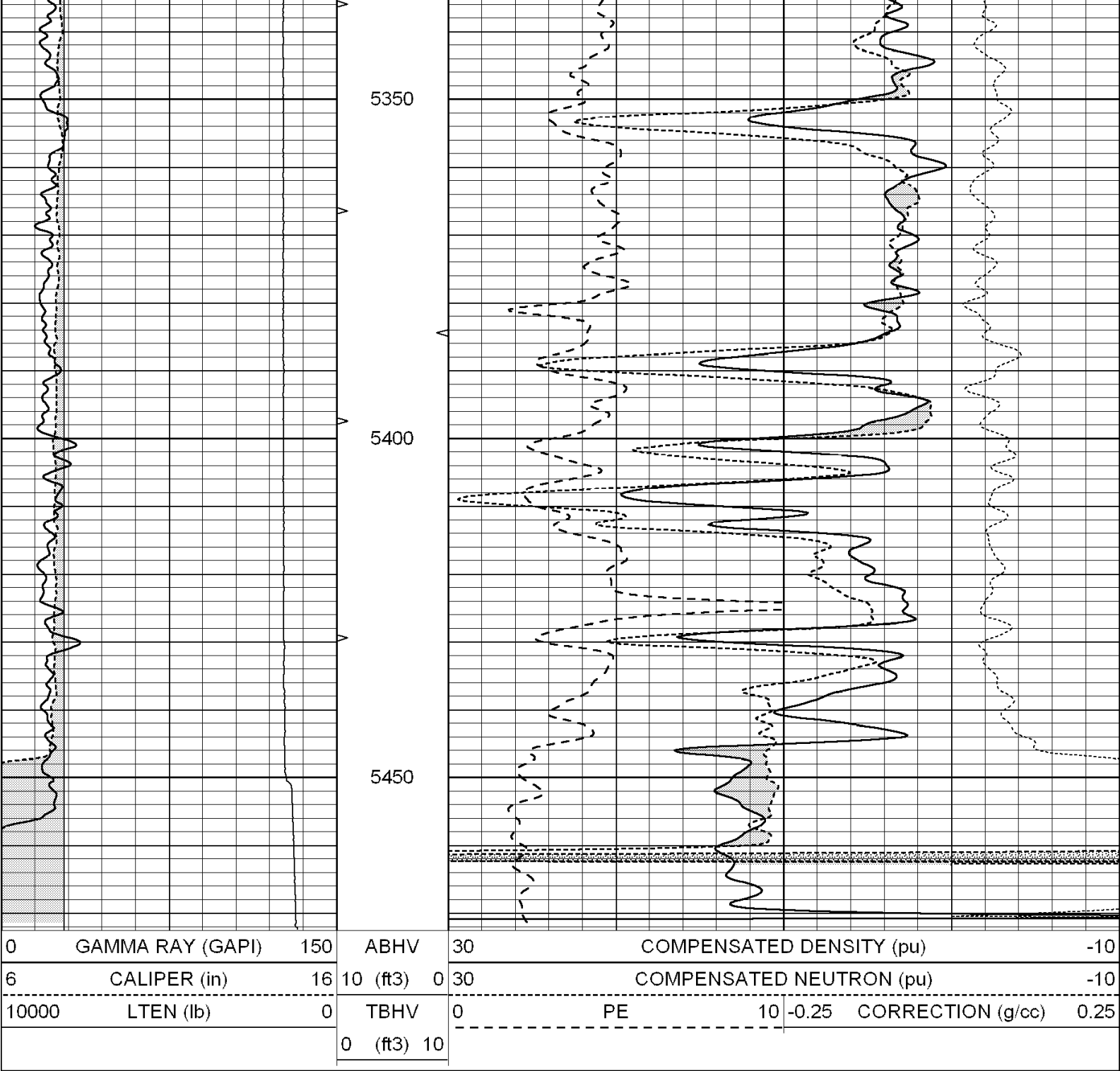
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 3190berexco.db
 Dataset Pathname: pass9.2
 Presentation Format: _ldt_neu
 Dataset Creation: Wed Jan 28 03:41:56 2009 by Calc Open-Cased 070814
 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
10000	LTEN (lb)	0	TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25
			0 (ft3) 10						





Calibration Report

Database File: 3190berexco.db
Dataset Pathname: pass5
Dataset Creation: Wed Jan 28 00:37:11 2009 by Log Open-Cased 070814

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
Surface Cal Performed: Fri Aug 01 06:33:19 2008
Downhole Cal Performed: Mon Jul 28 11:08:27 2008
After Survey Verification Performed: Mon Jul 28 11:08:27 2008

Surface Calibration

Readings

References

Results

Loop:

Air

Loop

Air

Loop

m

b

Deep	0.015	0.648	V	0.000	400.000	mmho-m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho-m	605.128	-17.682
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho-m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho-m	625.992	-9.739
Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho-m	2.011	405.777	mmho-m	1.000	0.000
Medium	0.000	0.000	mmho-m	7.590	503.393	mmho-m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-6.500	V		3800.000	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		
Litho Density Calibration Report								
Serial: 001 Model: PRB								
Performed Mon Jul 02 08:27:41 2007								
Litho Density Calibration								
	Background		Magnesium		Aluminum		Sandstone	
Window 1	2174.9		9788.1		3812.3		11324.7	
Window 2	2030.7		8587.5		3443.0		9809.6	
Window 3	1666.7		4844.5		2341.2		5358.6	
Window 4	493.8		497.1		495.0		491.9	
Long Space	0.0		6556.8		1412.3		7778.9	
Short Space	4.7		2134.8		1399.2		2419.3	
Rho			1.7100		2.5900		1.3800	
Pe					2.5700		1.5500	
Rib Angle	: 44.6		Rib Slope	: 0.987		Density/Spine Ratio	: 0.553	
Spine Angle	: 74.6		Spine Slope	: 3.634		Spine Intercept	: -19.1	
Caliper								
Low Ref	Readings		Reference					
High Ref	3.1		8.4					
	4.3		14.3					
	Gain: 4.6		Offset: -7.9					
Compensated Neutron Calibration Report								
Serial Number:				6I				
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:	Thu Jan 24 17:24:37 2008	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	350.0	cps
Sensitivity:	0.5586	GAPI/cps