



COMPENSATED DENSITY/NEUTRON LOG

Company MAI OIL OPERATIONS, INC.
Well #1 KRUG - DRISCOLL UNIT
Field KENNEBEC
County RUSSELL State KANSAS

Location: API #: 15-167-24135-0000

2565' FSL & 330' FWL

N/2 - NW - NW - SW

SEC 4 TWP 15S RGE 14W

DIL/MEL

Other Services

Elevation

K.B. 1778
D.F. 1776
G.L. 1768

Permanent Datum GROUND LEVEL Elevation 1768
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

Date	12/5/23		
Run Number	ONE		
Depth Driller	3296		
Depth Logger	3296		
Bottom Logged Interval	3272		
Top Log Interval	2200		
Casing Driller	8.625@477		
Casing Logger	477		
Bit Size	7.785		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7,700 PPM	
Density / Viscosity	9.2/60		
pH / Fluid Loss	10.0/6.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.650@64F		
Rmf @ Meas. Temp	.488@64F		
Rmc @ Meas. Temp	.780@64F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.378@110F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	2:00 P.M.		
Maximum Recorded Temperature	110F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KIM SHOEMAKER		

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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.

15-167-24135-0000

Comments

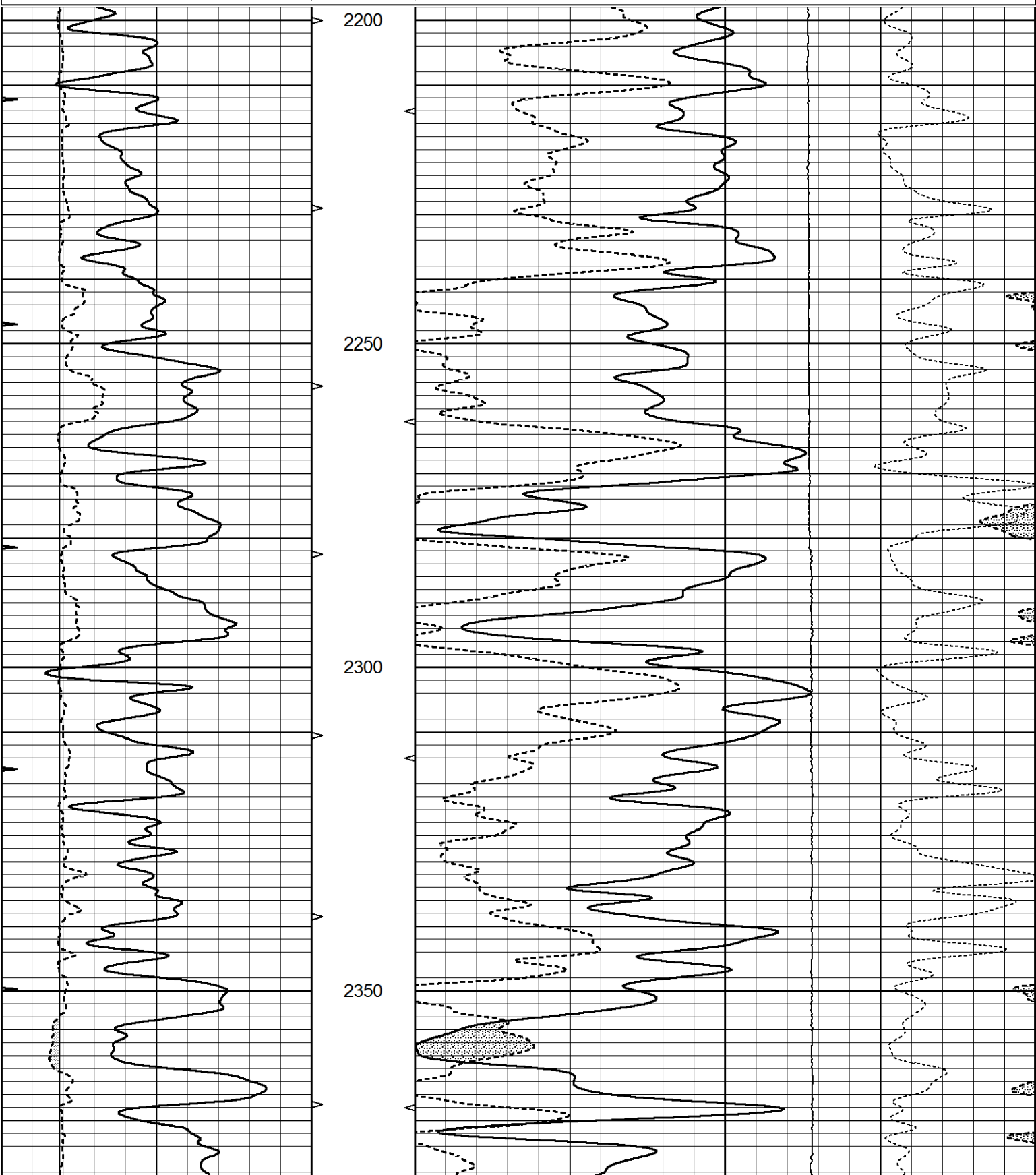
THANK YOU FOR USING ELI WIRELINE HAYS. KANSAS (785) 628-6395
DIRECTIONS
RUSSELL, KS. & I-70, S. ON HWY 281 TO RIVER BRIDGE, 2W. ON "WALTERS LN", S. INTO

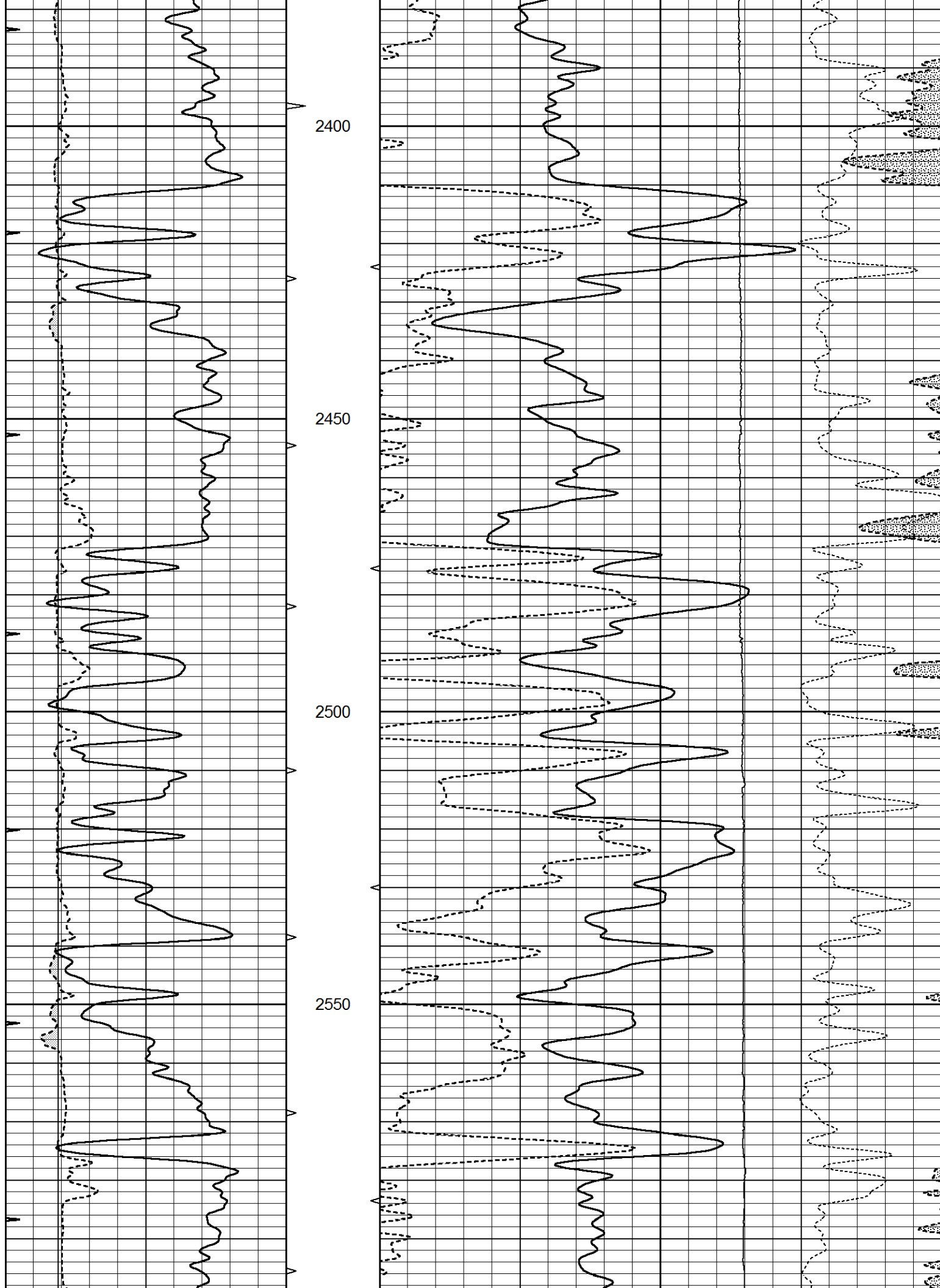


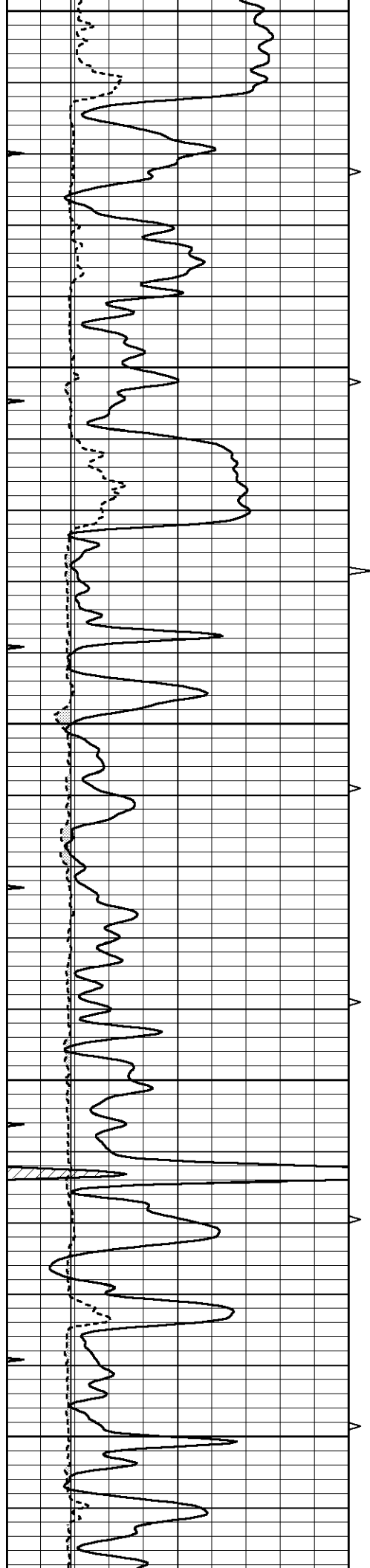
MAIN SECTION

Database File	8343ddn.db
Dataset Pathname	pass3.1M
Presentation Format	_den_neu
Dataset Creation	Tue Dec 05 15:41:28 2023
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10	
6	DCAL (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)			-10
0	MINMK	20	TBHV			-0.25	CORRECTION (g/cc)	0.25	
			0 (ft3)	10		0	LTEN (lb)	5000	







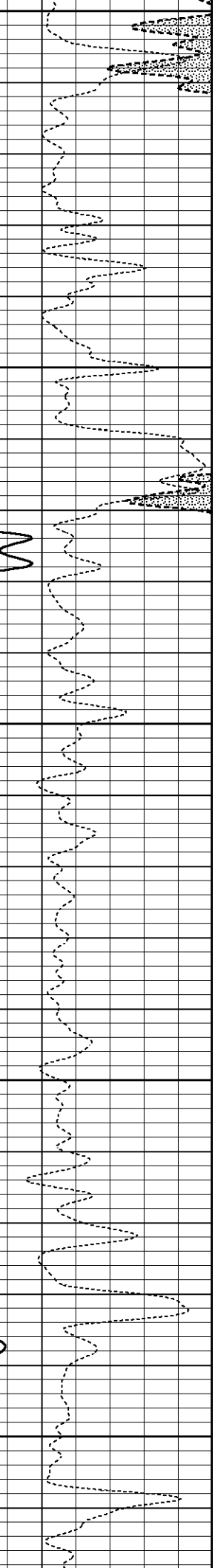
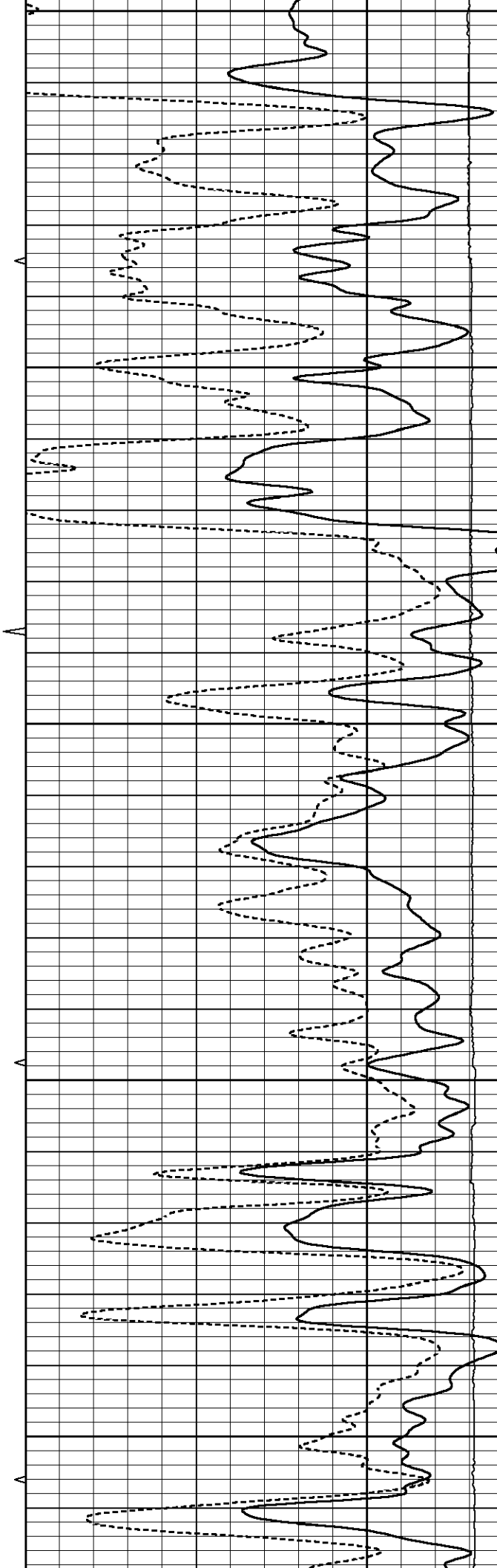
2600

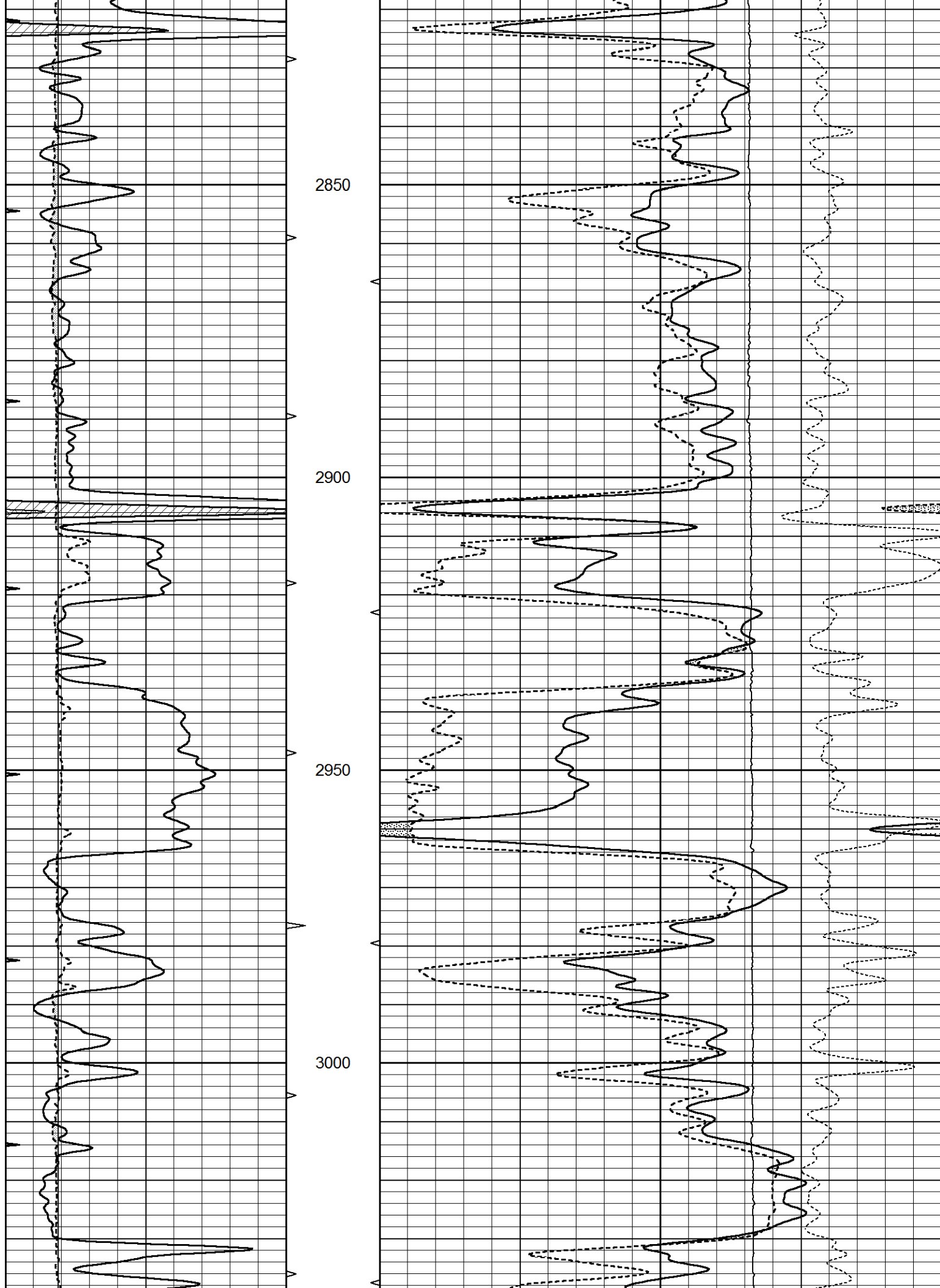
2650

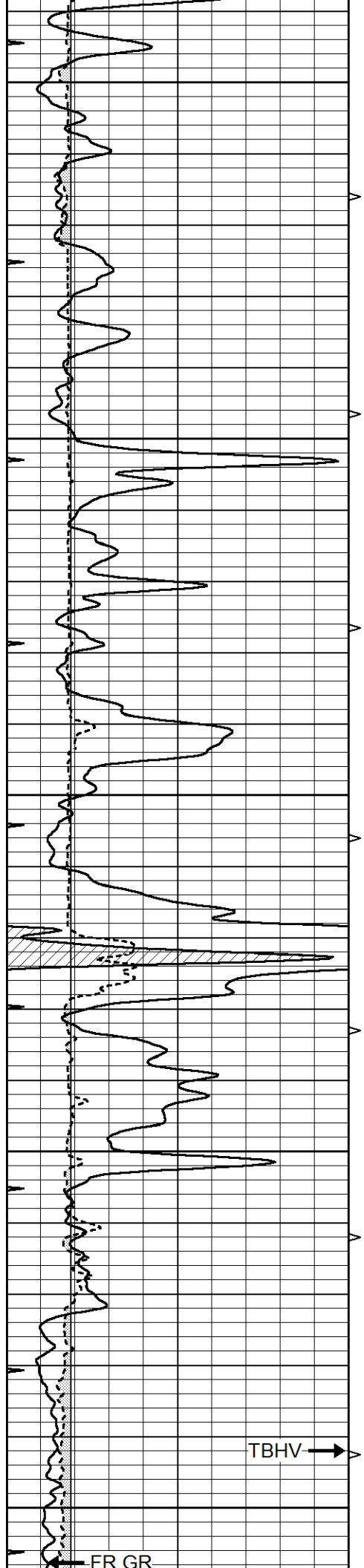
2700

2750

2800







3050

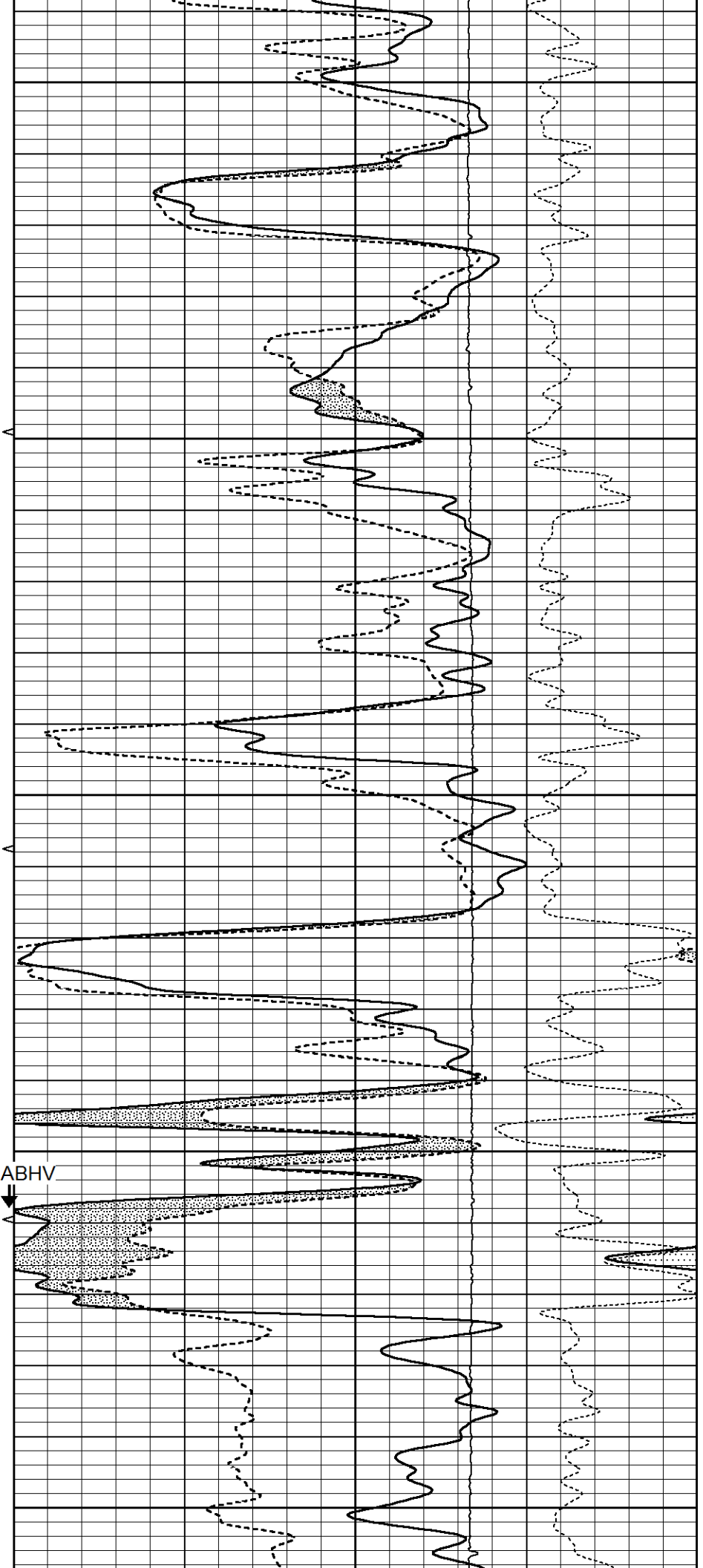
3100

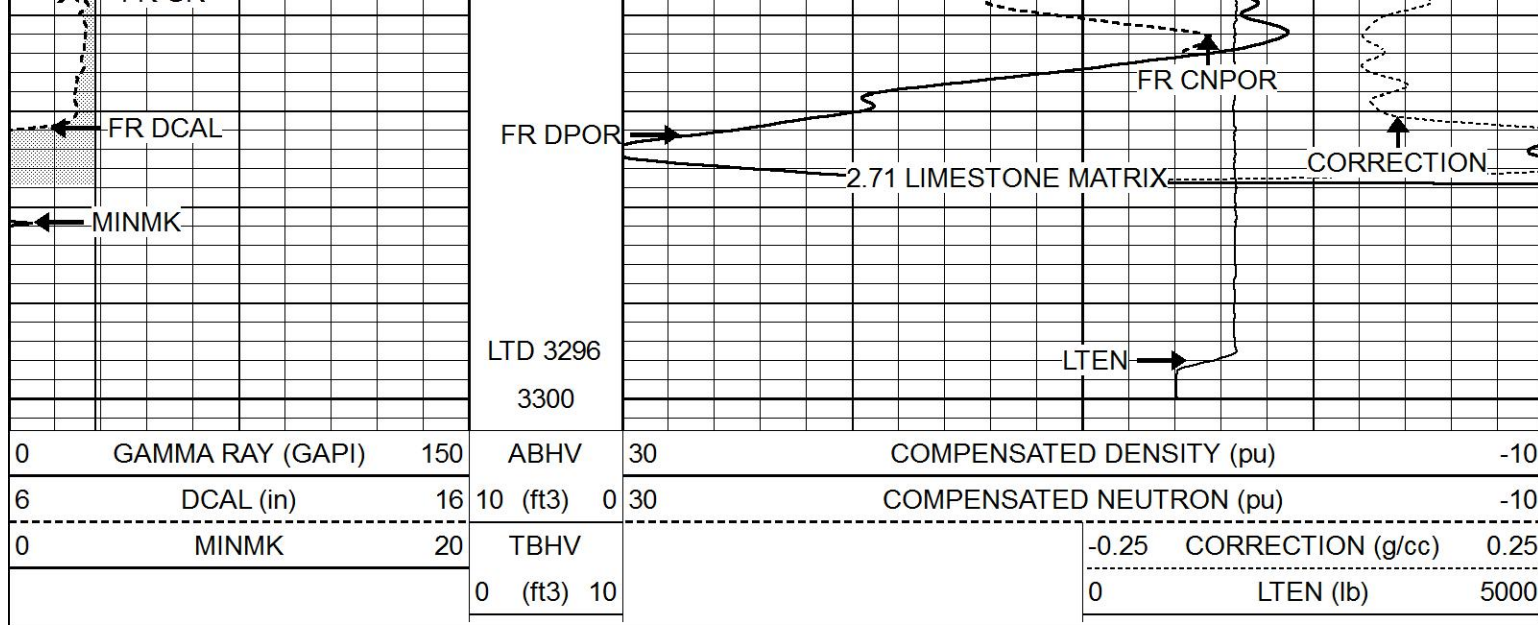
3150

3200

3250

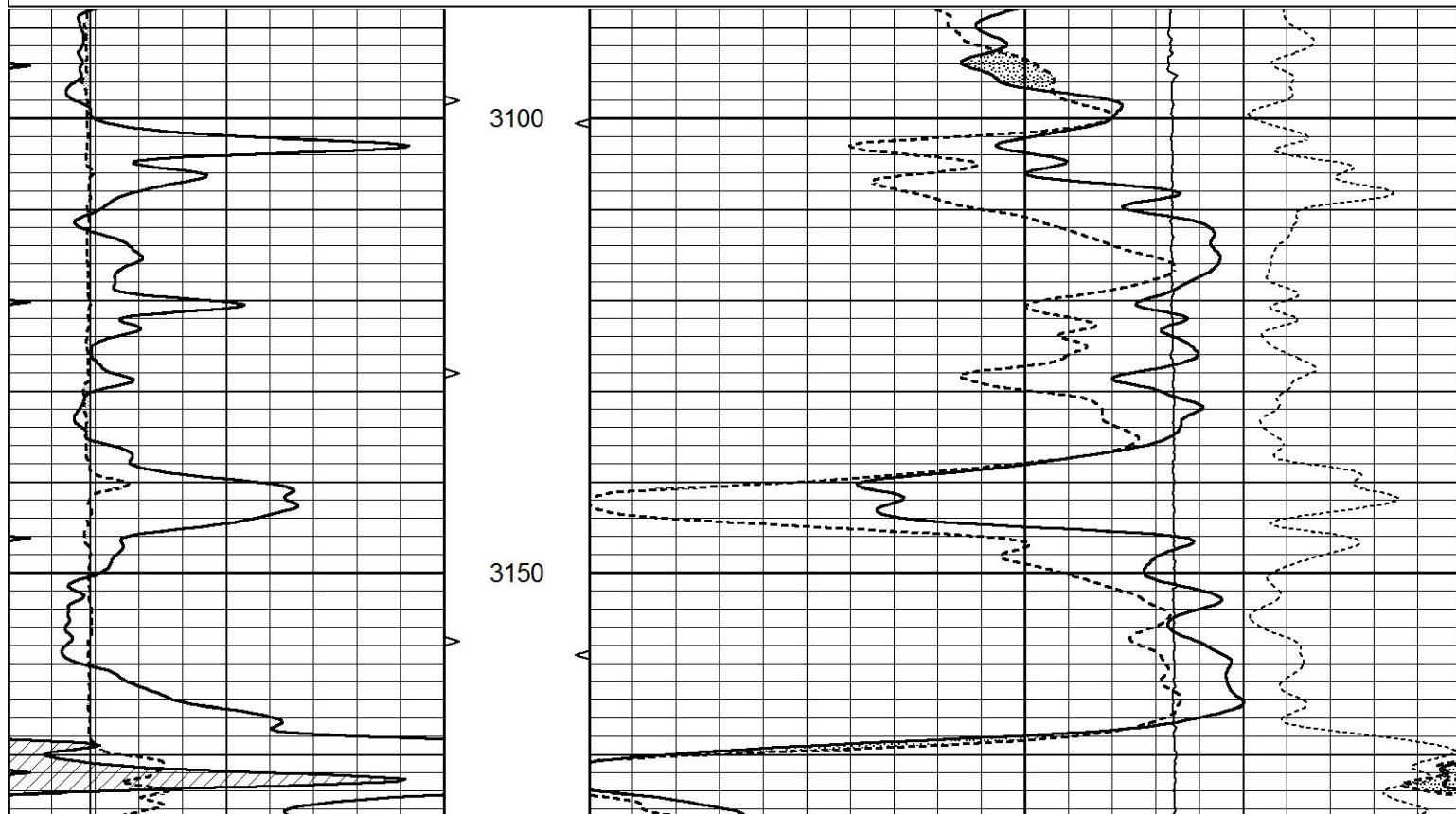
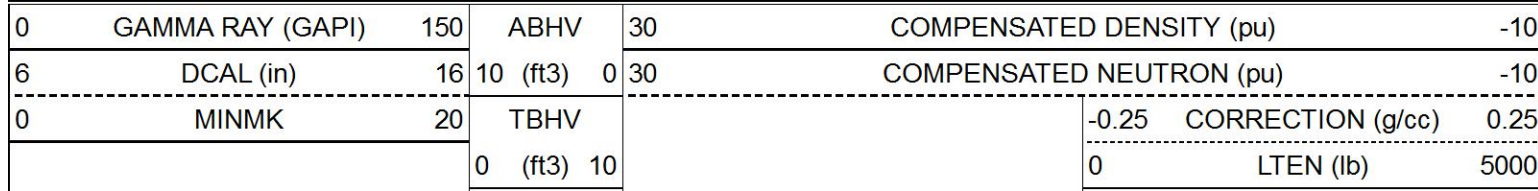
5.5" ABHV

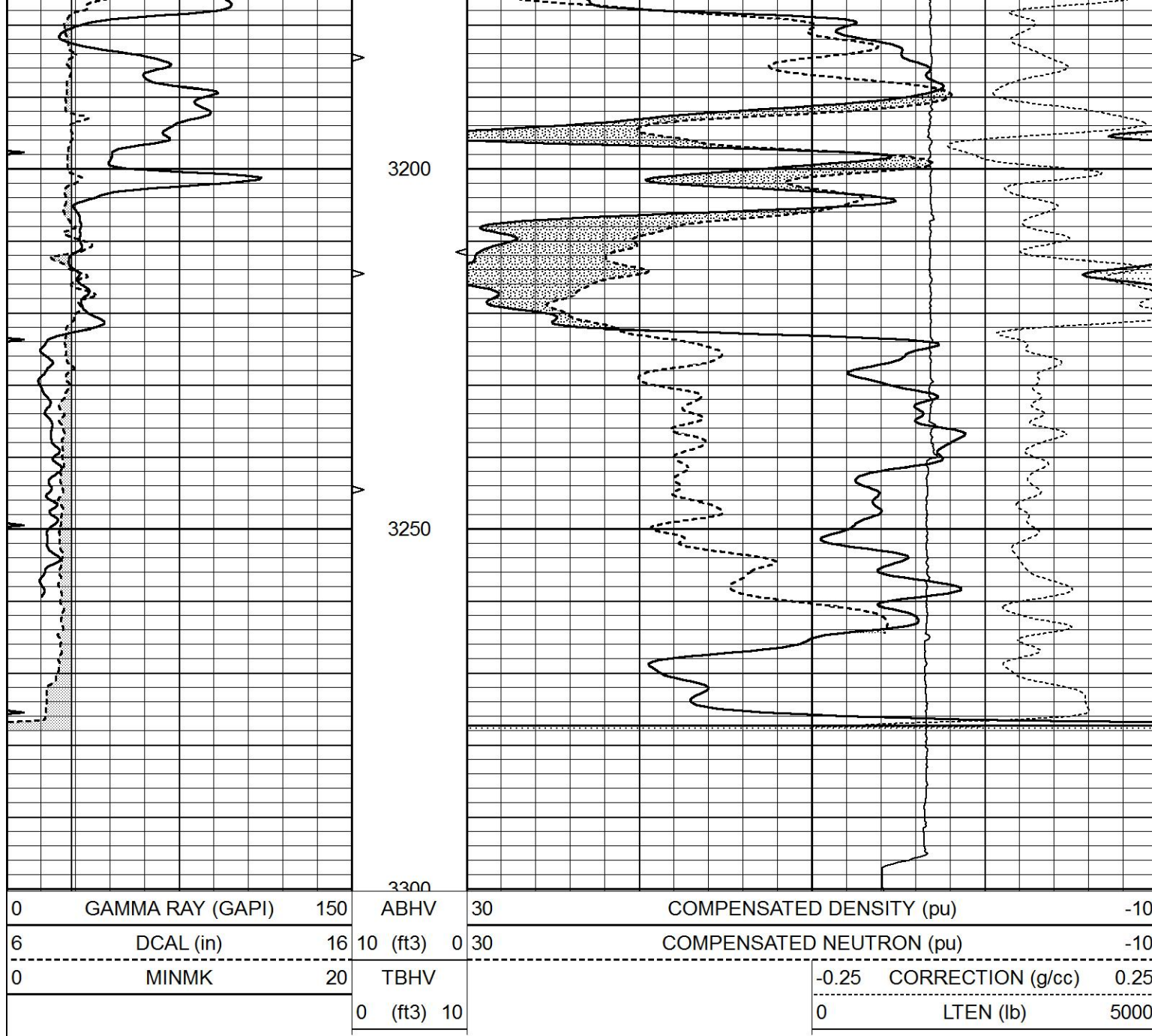




REPEAT SECTION

Database File 8343ddn.db
 Dataset Pathname pass2.1R
 Presentation Format _den_neu
 Dataset Creation Tue Dec 05 14:43:41 2023
 Charted by Depth in Feet scaled 1:240





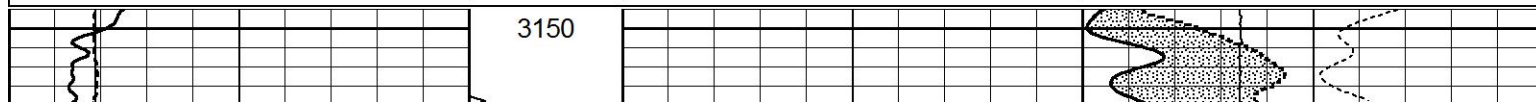
DOLOMITE MATRIX

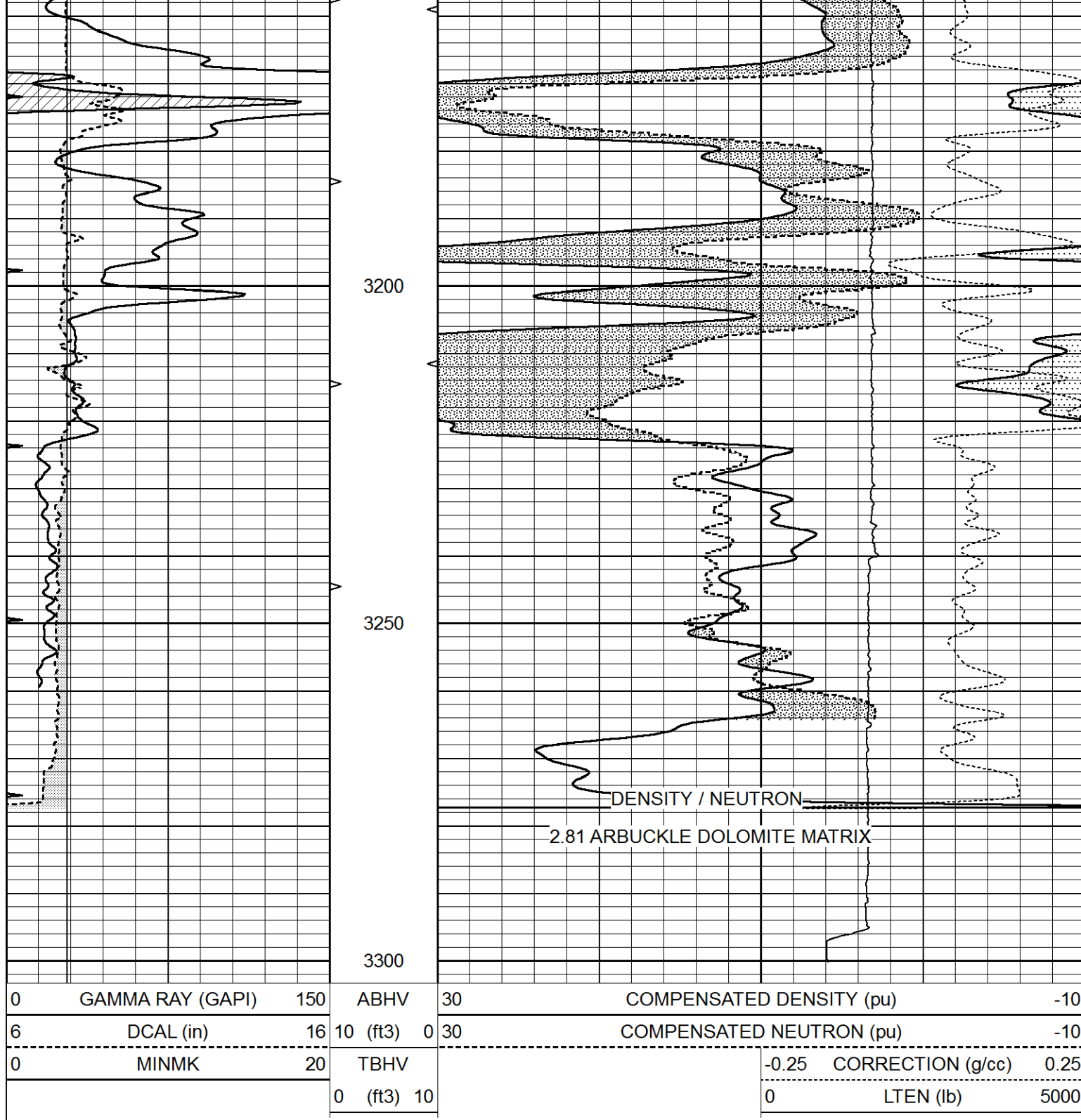
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Dataset Pathname pass2.1D
Presentation Format _den_neu
Dataset Creation Tue Dec 05 14:45:48 2023
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10
6	DCAL (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)			-10

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

			0 (ft3) 10		0	LTEN (lb)	5000	





Calibration Report

Database File 8343ddn.db
Dataset Pathname pass3.1M
Dataset Creation Tue Dec 05 15:41:28 2023

Dual Induction Calibration Report

Serial-Model: DIL7-GEAR
Surface Cal Performed: Tue Dec 05 15:00:07 2023
Downhole Cal Performed: Tue Apr 17 15:38:44 2007
After Survey Verification Performed: Tue Apr 17 15:38:40 2007

Surface Calibration

Readings

References

Results

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.019	0.660	V	0.000	400.000	mmho/m	660.000	22.000
Medium	-0.006	0.655	V	0.000	462.500	mmho/m	720.000	-25.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.010	0.665	V	0.000	400.000	mmho/m	610.018	-5.925
Medium	0.009	0.655	V	0.000	400.000	mmho/m	618.983	-5.564

Downhole Calibration								
Readings				References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	3.372	400.834	mmho/m	0.556	401.206	mmho/m	1.008	-2.843
Medium	13.557	467.446	mmho/m	9.465	462.114	mmho/m	0.997	-4.055
Shallow	2.521	0.019	V	500.000	2.000	Ohm-m	200.000	2.000

After Survey Verification								
Readings				Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	3.372	400.834	mmho/m	1.008	-2.843
Medium	0.000	0.000	mmho/m	13.557	467.446	mmho/m	0.997	-4.055
Shallow	2.500	0.000	Ohm-m	500.000	2.000	Ohm-m	200.000	0.000

Litho Density Calibration Report								
Serial: 004				Model: PRB				

Master Calibration				Performed Tue Aug 02 11:29:35 2022				
	Background	Magnesium		Aluminum	Aluminum+Fe			
Window 1	1154.2	10019.5		3137.9	2795.6			cps
Window 2	1054.4	8597.6		2733.4	2469.5			cps
Window 3	902.3	5241.4		1832.1	1719.3			cps
Window 4	251.9	261.1		255.8	252.9			cps
Long Space	0.0	7543.2		1679.0	1415.0			cps
Short Space	4.4	2049.3		1321.7	1116.8			cps
Rho		1.7100		2.5900	0.0000			g/cc
Pe		2.0000		2.7500	5.7900			
Rib Angle	: 43.7	Rib Slope	: 0.957	Density/Spine Ratio			: 0.562	
Spine Angle	: 73.7	Spine Slope	: 3.426	Spine Intercept			: -17.2	

Before Survey Verification				Performed Wed Dec 31 18:00:00 1969				
Window 1	0.0	0.0		0.0	0.0			cps
Window 2	0.0	0.0		0.0	0.0			cps
Window 3	0.0	0.0		0.0	0.0			cps
Window 4	0.0	0.0		0.0	0.0			cps
Long Space	0.0	0.0		0.0	0.0			cps
Short Space	0.0	0.0		0.0	0.0			cps
Measured Rho		0.0000		0.0000	0.0000			g/cc
Measured Correction		0.0000		0.0000	0.0000			g/cc
Measured Pe				0.0000	0.0000			

After Survey Verification				Performed Wed Dec 31 18:00:00 1969				
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Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	
Compensated Neutron Calibration Report					
		Serial Number:	070808PMC		
		Tool Model:	NABORS		
PRE-SURVEY VERIFICATION					
Detector		Readings	Measured	Target	
Short Space		cps			
Long Space		cps	pu	pu	
POST-SURVEY VERIFICATION					
Detector		Readings	Measured	Target	
Short Space		cps			
Long Space		cps	pu	pu	
Gamma Ray Calibration Report					
Serial Number:		070558			
Tool Model:		OPEN_GR			
Performed:		Wed Nov 15 06:07:43 2023			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		0.3000	GAPI/cps		