

COMPENSATED DENSITY/NEUTRON PE/LOG

Company PICKRELL DRILLING CO., INC.

Well PETERSILIE BT#1

Field PETERSILIE NE

County NESS State KANSAS

Location: API # : 15-135-26103-0000

2310' FNL & 1320' FEL

SEC 12 TWP 20S RGE 24W

Permanent Datum GROUND LEVEL Elevation 2321
Log Measured From KELLY BUSHING 7' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DIL
ML

Elevation

K.B. 2328
D.F. 2326
G.L. 2321

Date 07/01/21

Run Number ONE

Depth Driller 4535

Depth Logger 4534

Bottom Logged Interval 4514

Top Log Interval 3700

Casing Driller 8 5/8" @ 221

Casing Logger 221

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.4/46

pH / Fluid Loss 10.5/9.6

Source of Sample FLOWLINE

Rm @ Meas. Temp .5@ 80F

Rmf @ Meas. Temp .38@ 80F

Rmc @ Meas. Temp .60 @ 80F

Source of Rmf / Rmc MEASURED

Rm @ BHT .34@ 120F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 1111

Maximum Recorded Temperature 120F

Equipment Number 1523

Location HAYS, KANSAS

Recorded By GUS PFANENSTIEL

Witnessed By AARON YOUNG

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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 ELI WIRELINE, HAYS, KS. (785) 628-6395

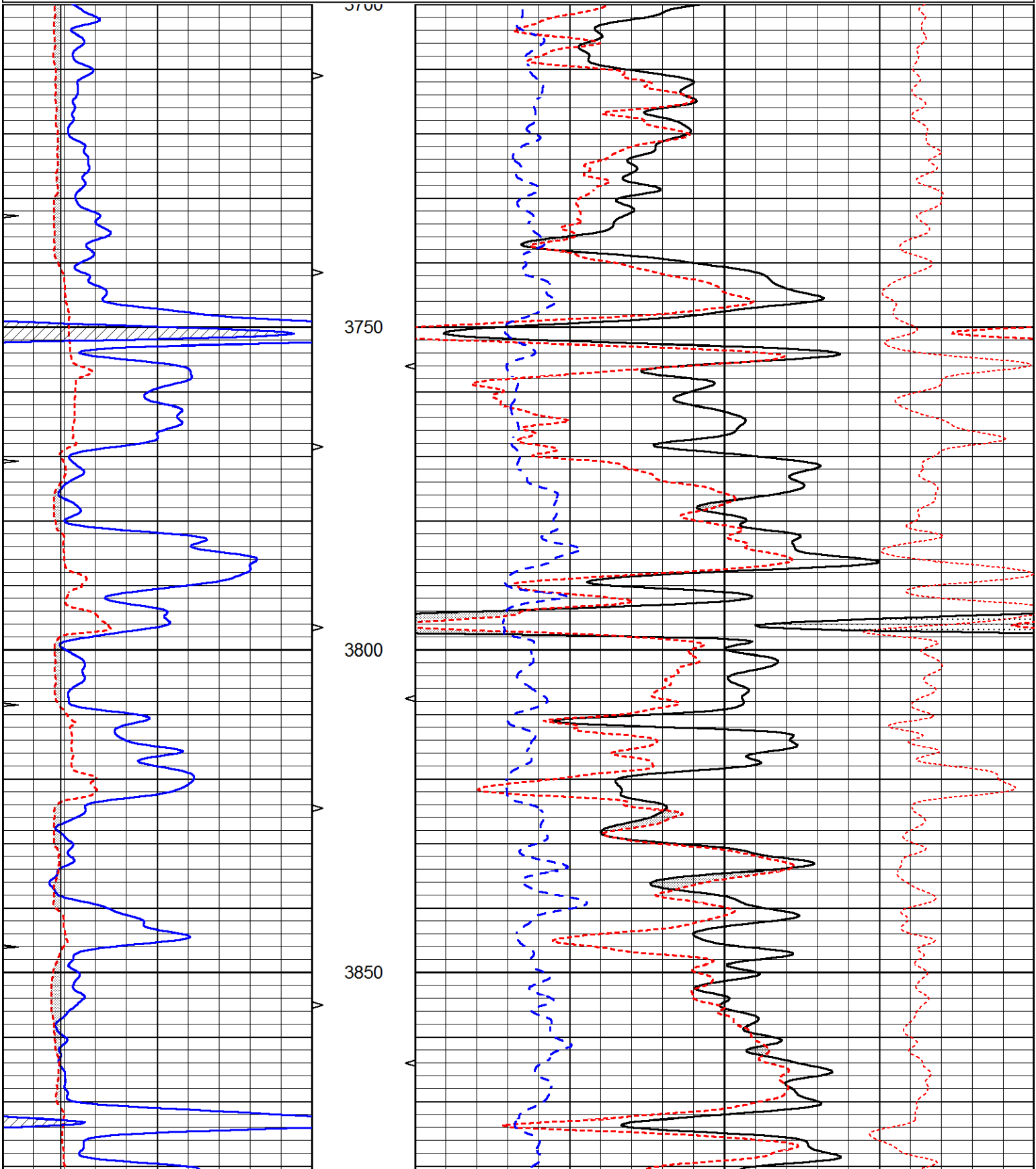
DIRECTIONS:NESS CITY SOUTH TO RD. W 40, 1 MILE WEST
1/4 NORTH, WEST INTO.

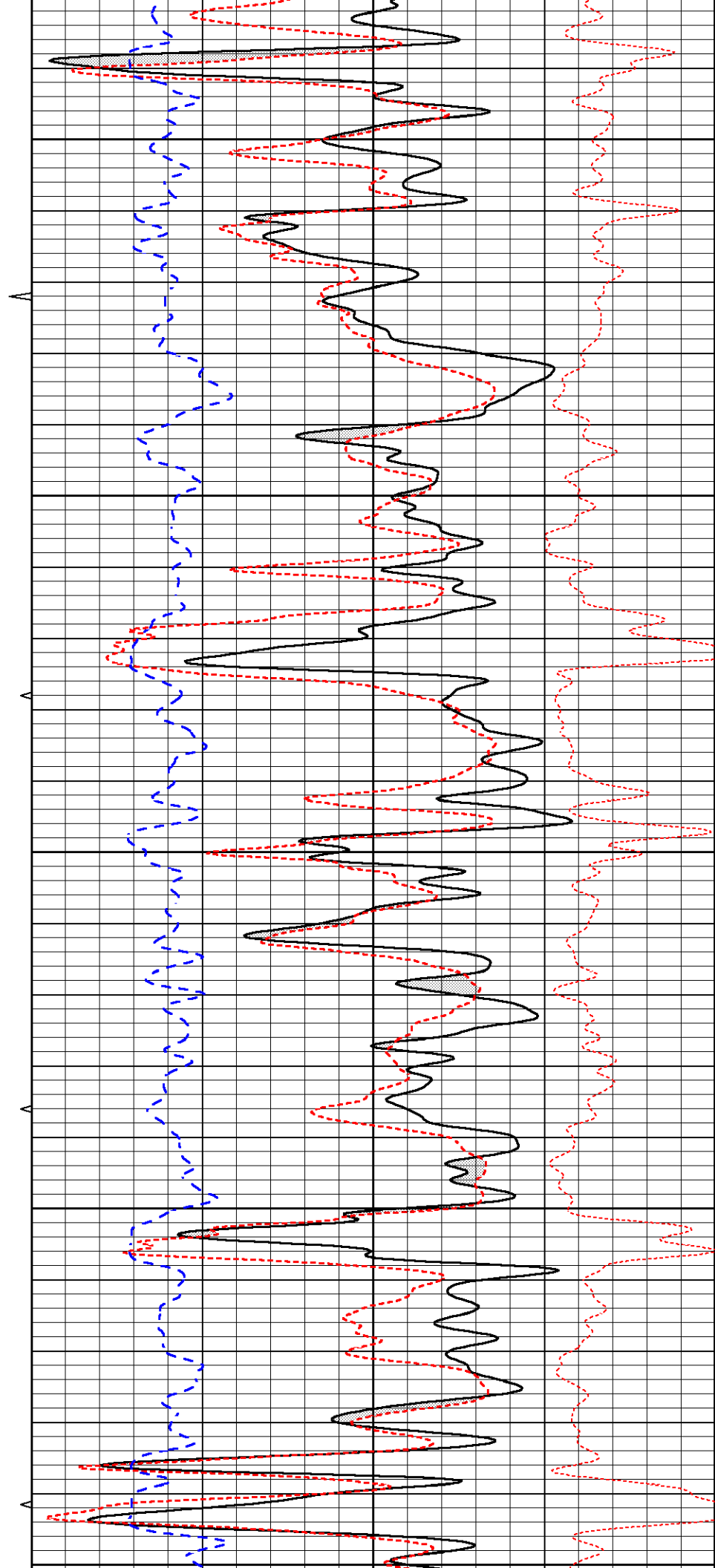
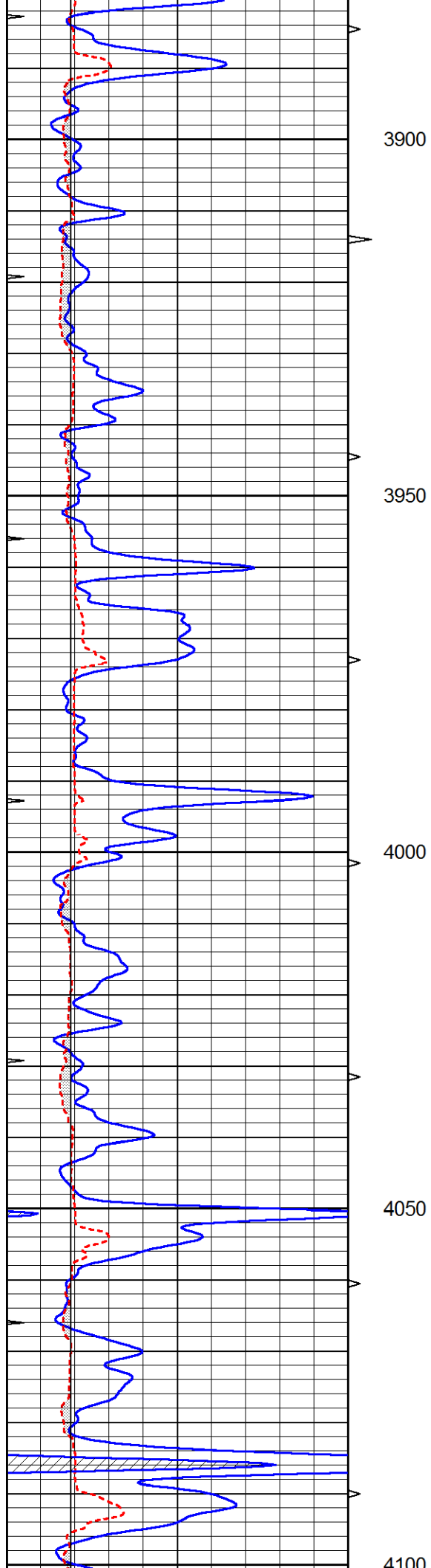


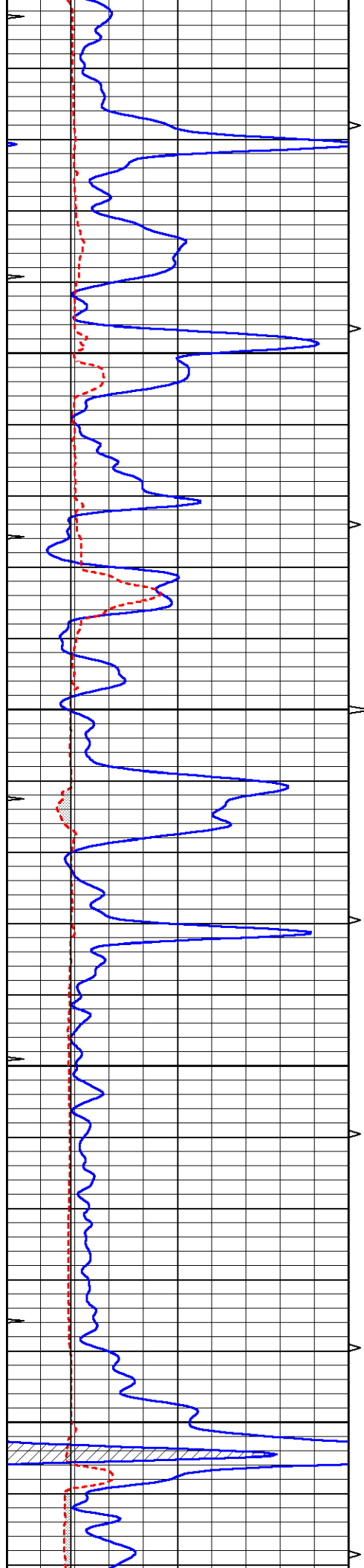
MAIN PASS

Database File	5448pe.db
Dataset Pathname	pass3.1
Presentation Format	_ldt_neu
Dataset Creation	Thu Jul 01 01:57:30 2021
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
0	MINMK	20	TBHV	0	PE	10 -0.25
			0 (ft3)	10	CORRECTION (g/cc)	0.25







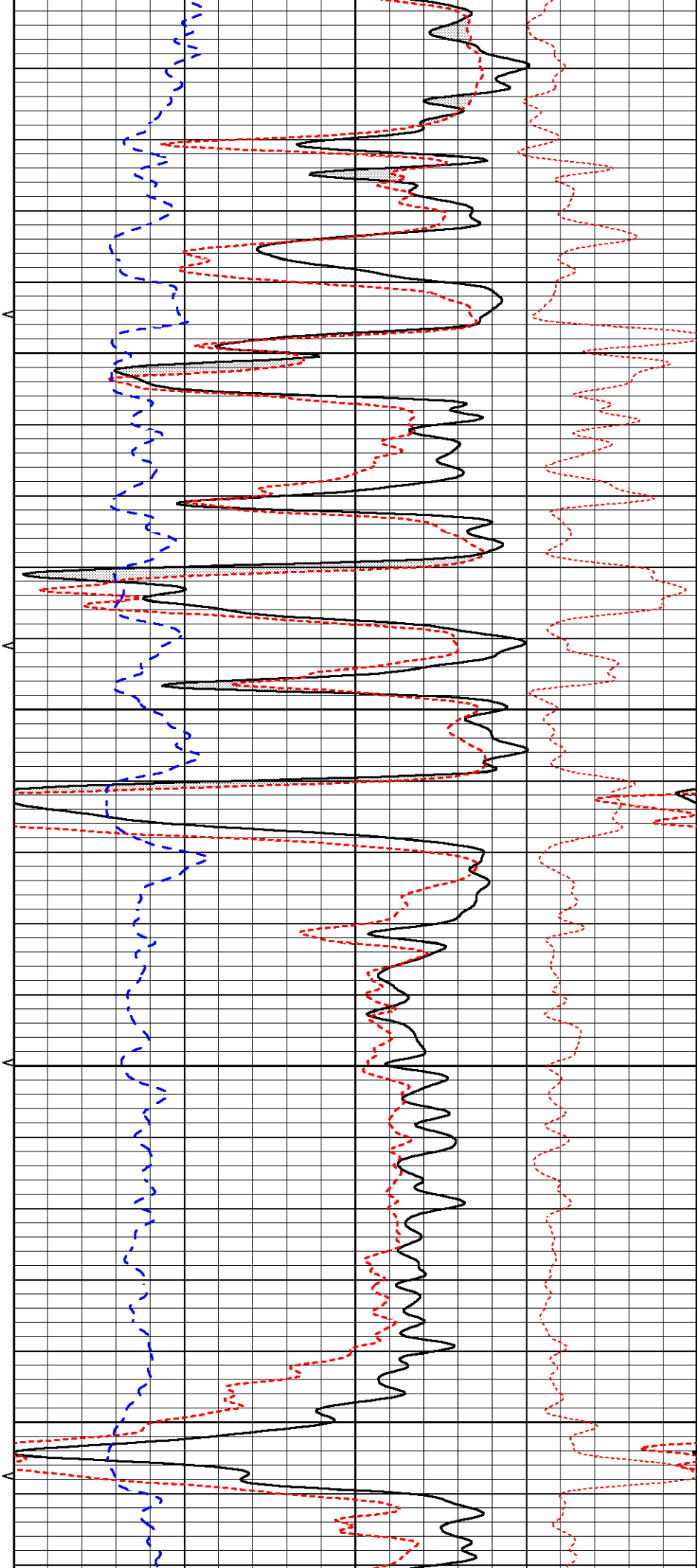
4100

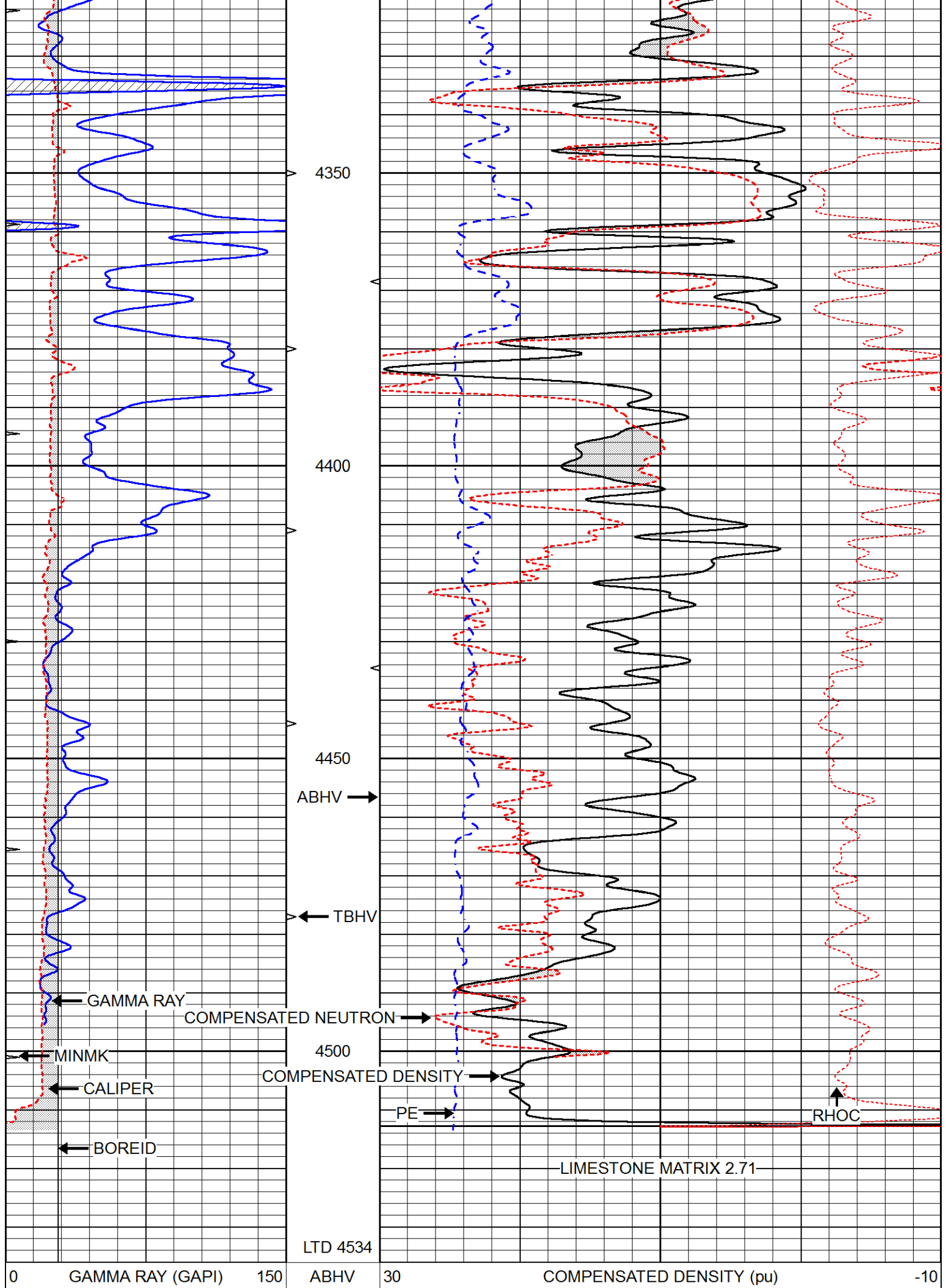
4150

4200

4250

4300





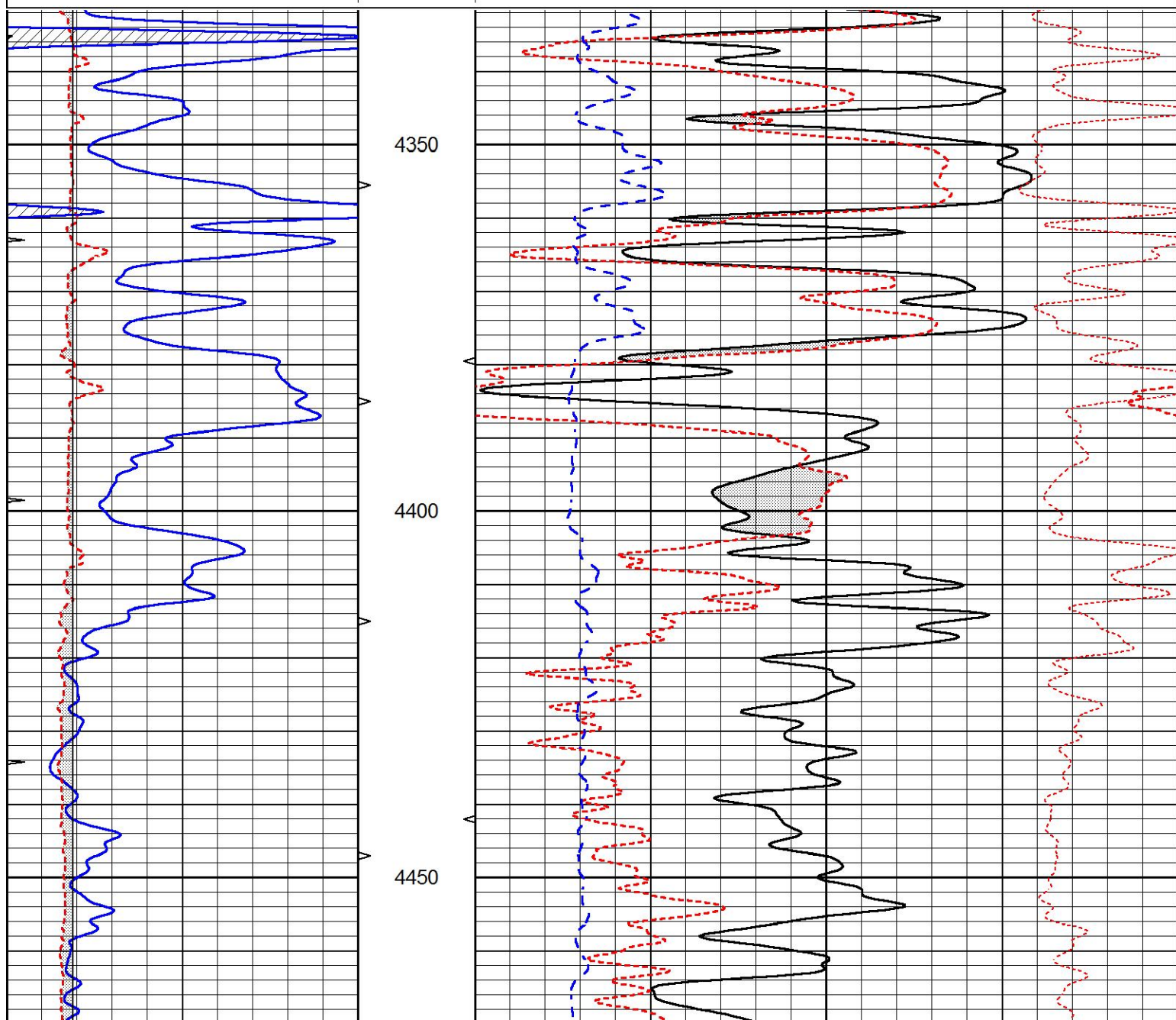
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25	CORRECTION (g/cc) 0.25
			0 (ft3)	10			

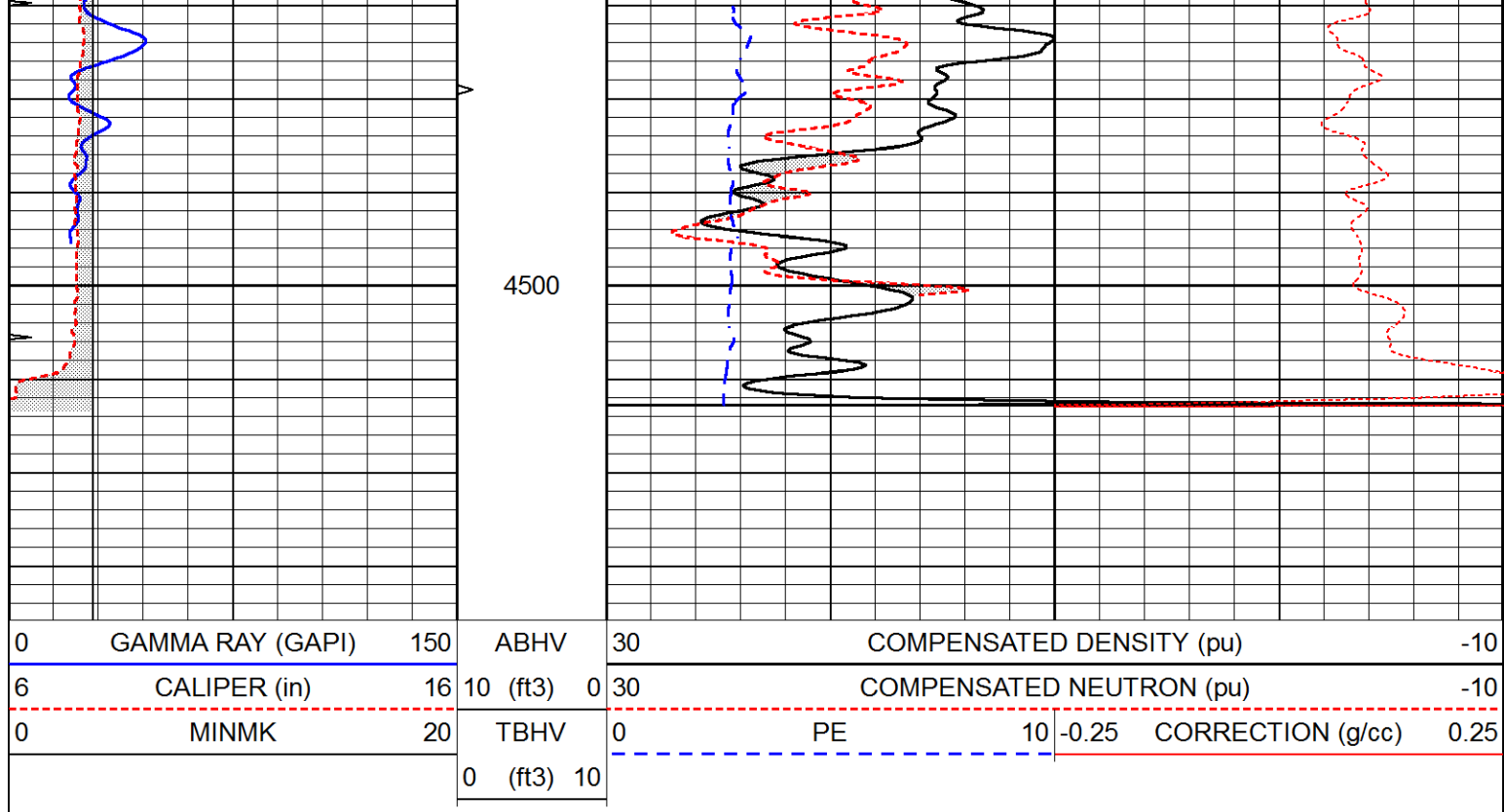


REPEAT SECTION

Database File 5448pe.db
 Dataset Pathname pass2.1
 Presentation Format _ldt_neu
 Dataset Creation Thu Jul 01 01:02:07 2021
 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	PE	10	-0.25	CORRECTION (g/cc)	0.25	
			0 (ft3)	10						





Calibration Report									
Database File	5448pe.db								
Dataset Pathname	pass2.1								
Dataset Creation	Thu Jul 01 01:02:07 2021								
Dual Induction Calibration Report									
Serial-Model:					PROBE8-DILG				
Surface Cal Performed:					Mon Sep 10 14:28:35 2018				
Downhole Cal Performed:					Mon Sep 10 14:28:38 2018				
After Survey Verification Performed:					Mon Sep 10 14:28:40 2018				
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.015	0.648	V	0.000	400.000	mmho/m	620.000	0.000	
Medium	0.029	0.796	V	0.000	464.000	mmho/m	590.000	-12.000	
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			
		-7.200	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: 002N Model: PRB

Master Calibration			Performed Tue Mar 10 15:08:00 2020					
	Background	Magnesium	Aluminum	Aluminum+Fe				
Window 1	780.1	6981.9	2088.6	1871.2			cps	
Window 2	718.6	5898.2	1813.8	1664.1			cps	
Window 3	580.0	2989.5	1088.0	1039.1			cps	
Window 4	172.8	175.7	175.3	173.5			cps	
Long Space	0.0	5179.6	1095.2	945.5			cps	
Short Space	1.1	1228.6	821.2	690.4			cps	
Rho		1.7100	2.5900	0.0000			g/cc	
Pe		2.0000	2.7500	5.7900				
Rib Angle	: 45.5	Rib Slope	: 1.016	Density/Spine Ratio			: 0.548	
Spine Angle	: 75.5	Spine Slope	: 3.857	Spine Intercept			: -18.9	

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					
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				

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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
PRE-SURVEY VERIFICATION						
	Detector	Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps		pu	pu
2)	Short Space		cps			
	Long Space		cps		pu	
3)	Short Space		cps			
	Long Space		cps		pu	
POST-SURVEY VERIFICATION						
	Detector	Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps		pu	pu
2)	Short Space		cps			
	Long Space		cps		pu	pu
3)	Short Space		cps			
	Long Space		cps		pu	pu
Gamma Ray Calibration Report						
	Serial Number:	GR6				
	Tool Model:	OPEN				
	Performed:	Thu Jul 30 20:04:35 2020				
	Calibrator Value:	150.0		GAPI		
	Background Reading:	0.0		cps		
	Calibrator Reading:	276.0		cps		
	Sensitivity:	0.7500		GAPI/cps		