



COMPENSATED DENSITY/NEUTRON PE LOG

Company SHAKESPEARE OIL COMPANY, INC.

Well OTTLEY #2-8

Field SMOKEY VALLEY SOUTHEAST

County LOGAN State KANSAS

Location: API #: 15-109-21642-0000

1485' FNL & 1563' FEL
SE - SE - NW - SE

SEC 8 TWP 14S RGE 32W

Other Services
DIL/MEL

Elevation

Permanent Datum GROUND LEVEL Elevation 2832
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

K.B. 2842
D.F. 2840
G.L. 2832

Date 7/3/22

Run Number ONE

Depth Driller 4555

Depth Logger 4556

Bottom Logged Interval 4532

Top Log Interval 3500

Casing Driller 8 5/8" @ 269'

Casing Logger 269

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.1/54

pH / Fluid Loss 11.0/7.2

Source of Sample FLOWLINE

Rm @ Meas. Temp .500 @ 79F

Rmf @ Meas. Temp .375 @ 79F

Rmc @ Meas. Temp .600 @ 79F

Source of Rmf / Rmc MEASURED

Rm @ BHT .326 @ 121F

Time Circulation Stopped 2.5 HOURS

Time Logger on Bottom 6:00 A.M.

Maximum Recorded Temperature 121F

Equipment Number 8916

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By VERN SCHRAG

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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

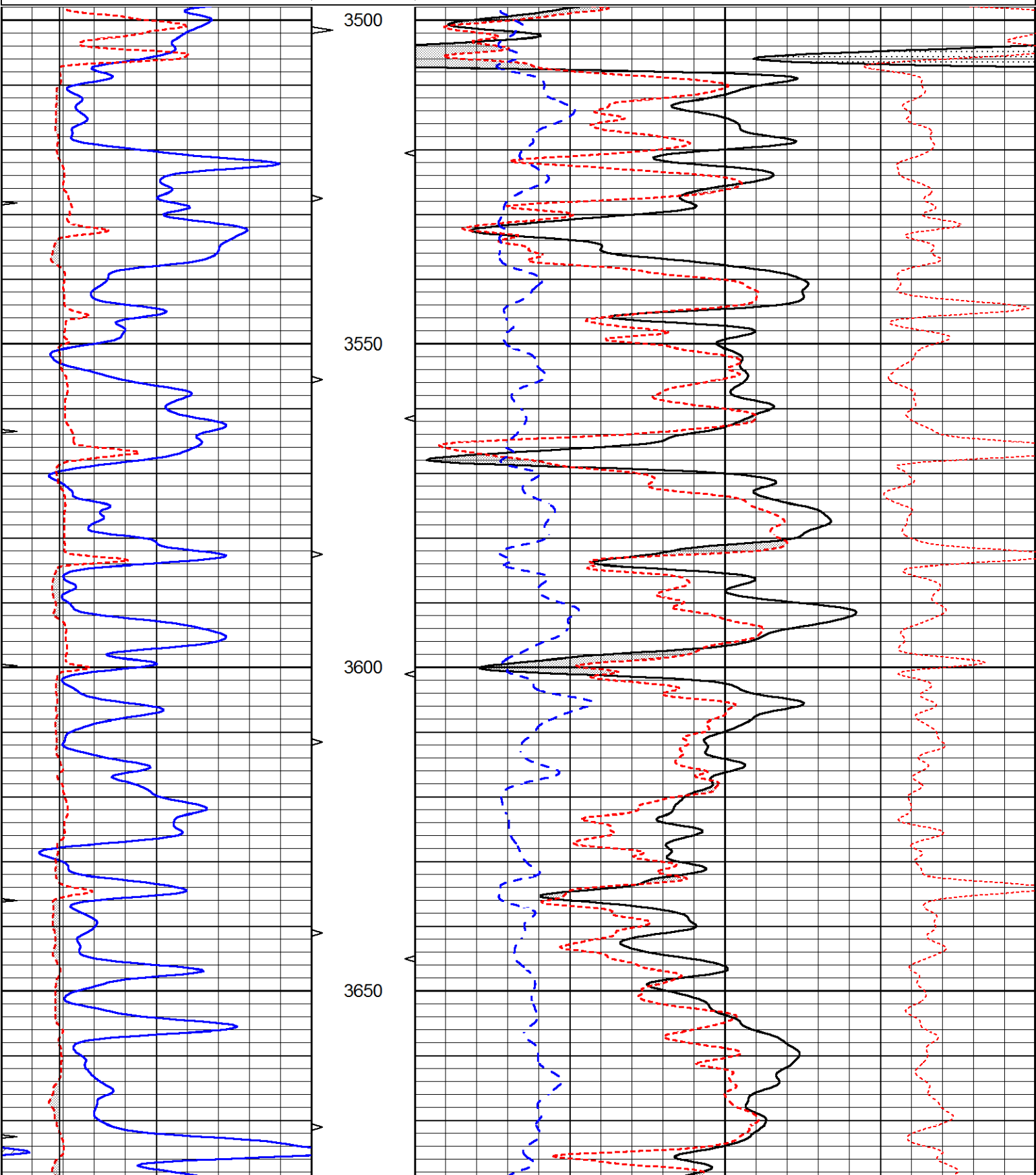
DIRECTIONS:

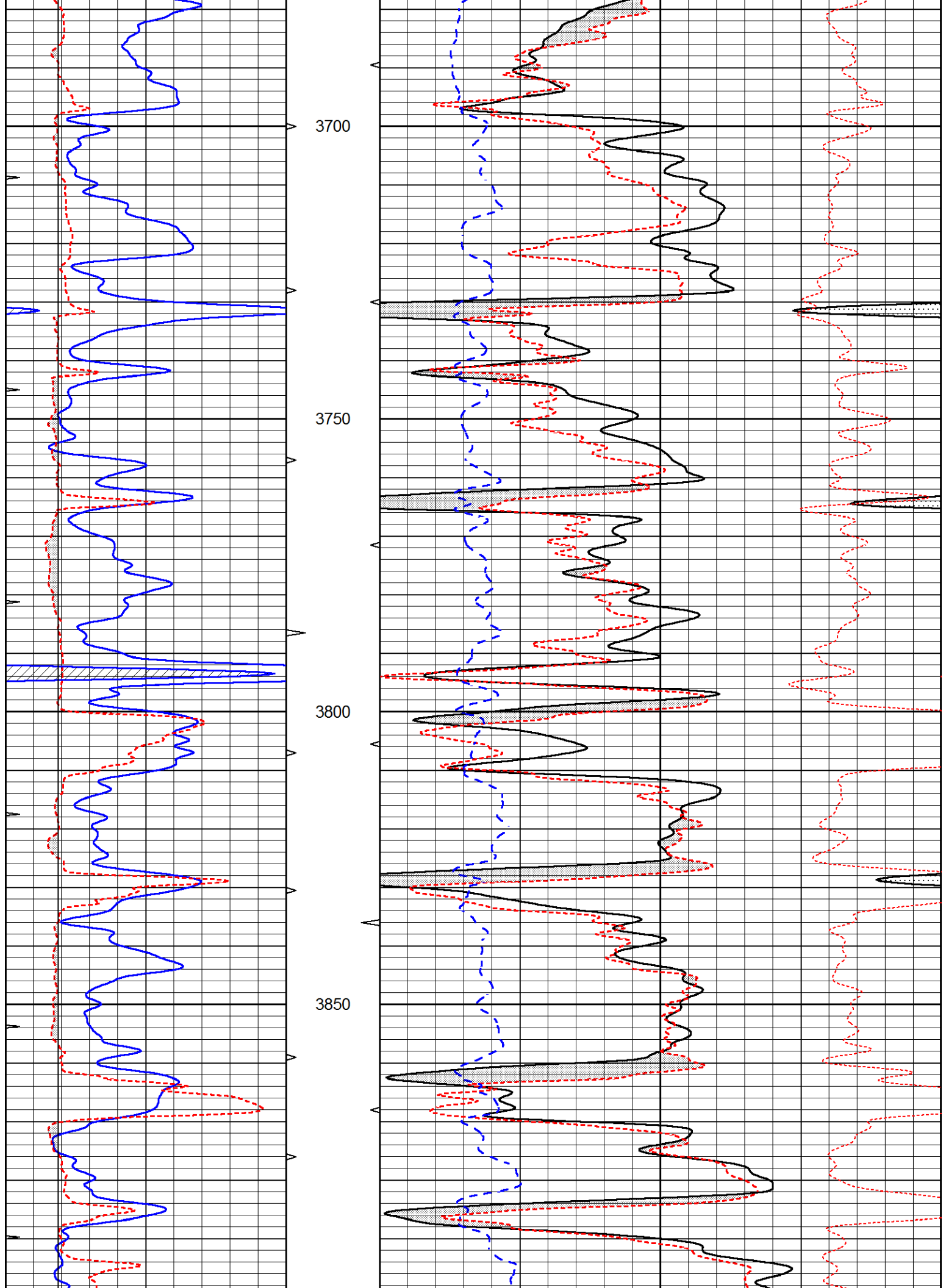
OAKLEY, KS., 17S. ON HWY 83 TO "MUSTANG RD.", 3W. TO "RD. 410", 2S. TO "KIOWA RD.", 1/2E.,
N. INTO

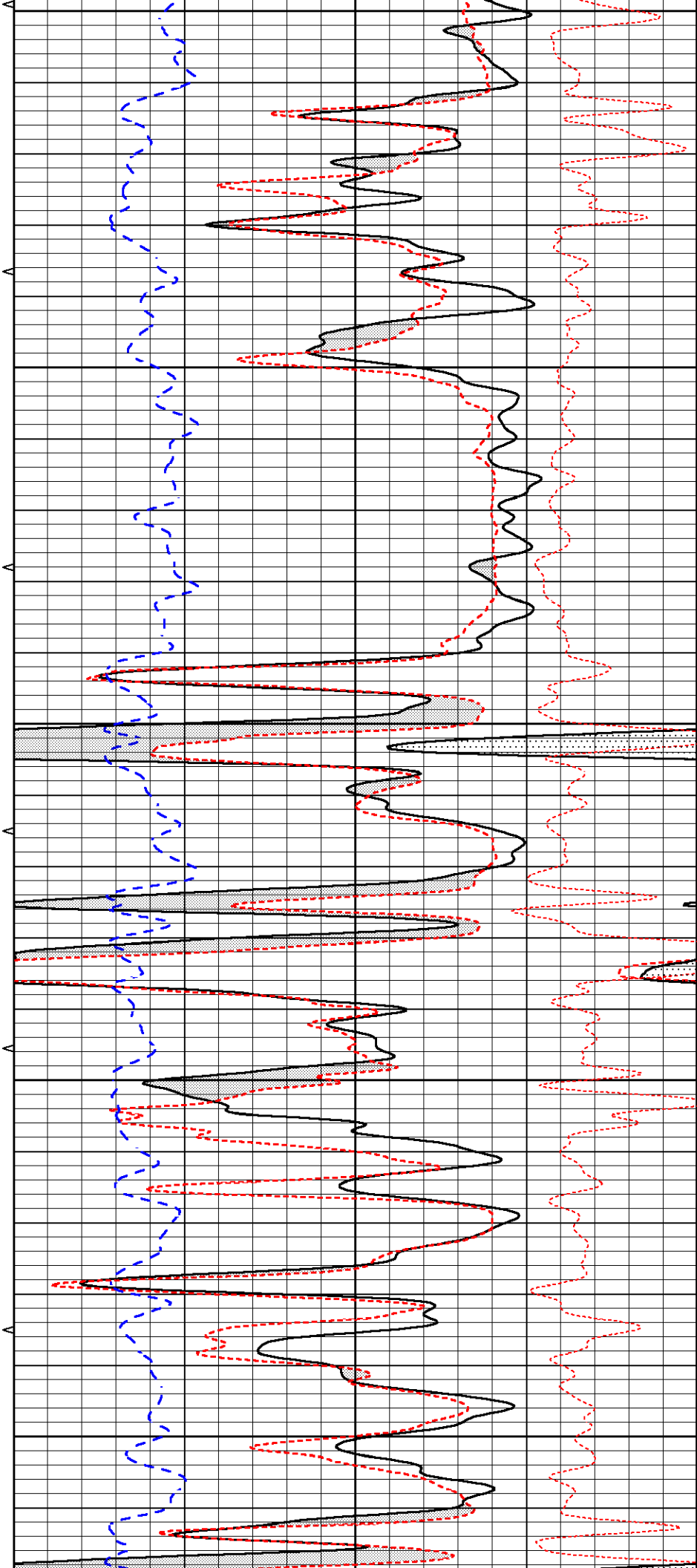
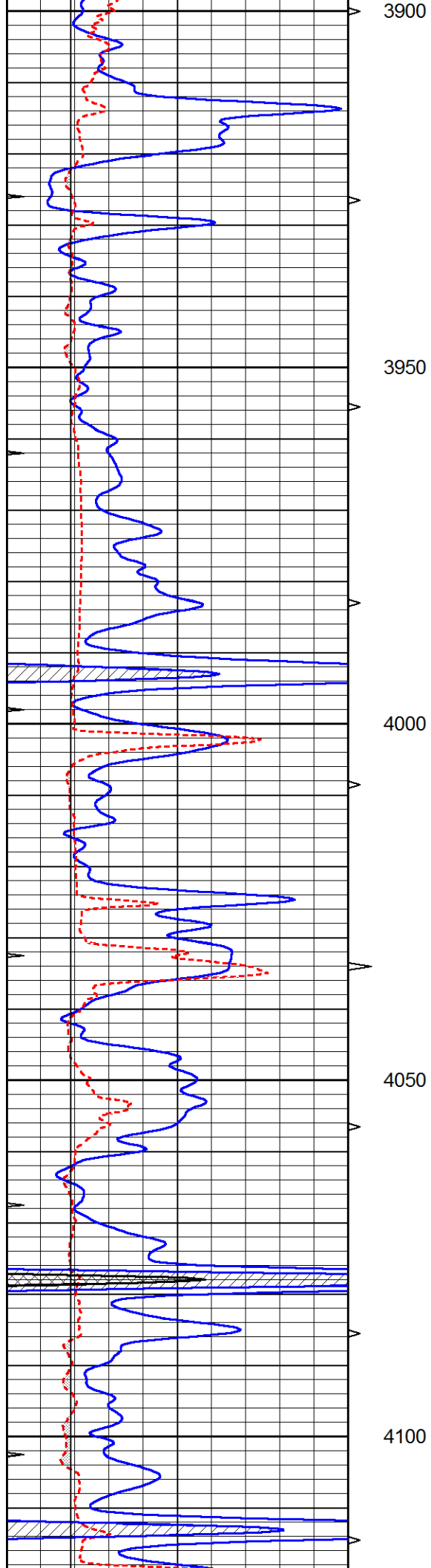


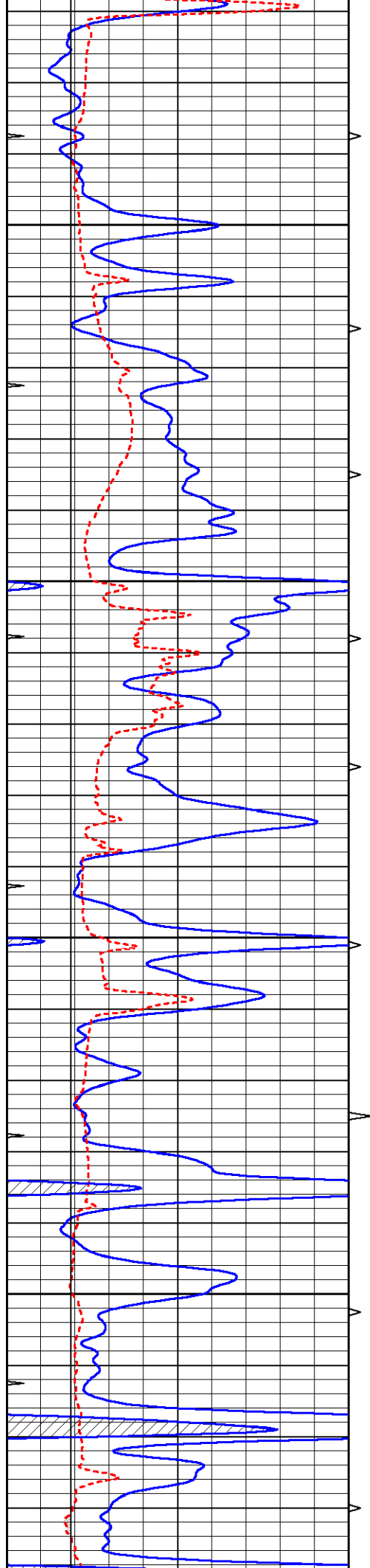
MAIN SECTION

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
			0 (ft3) 10		CORRECTION (g/cc)	0.25







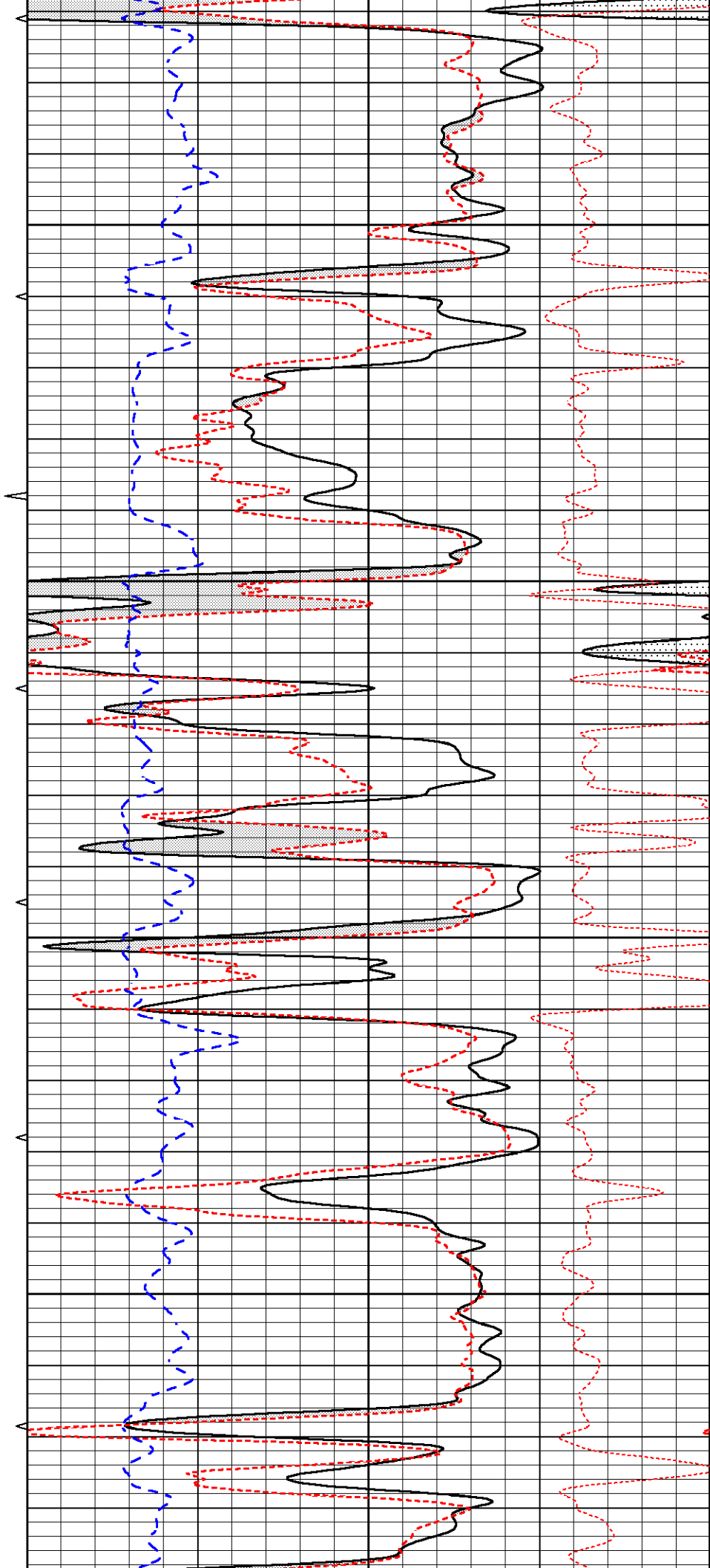


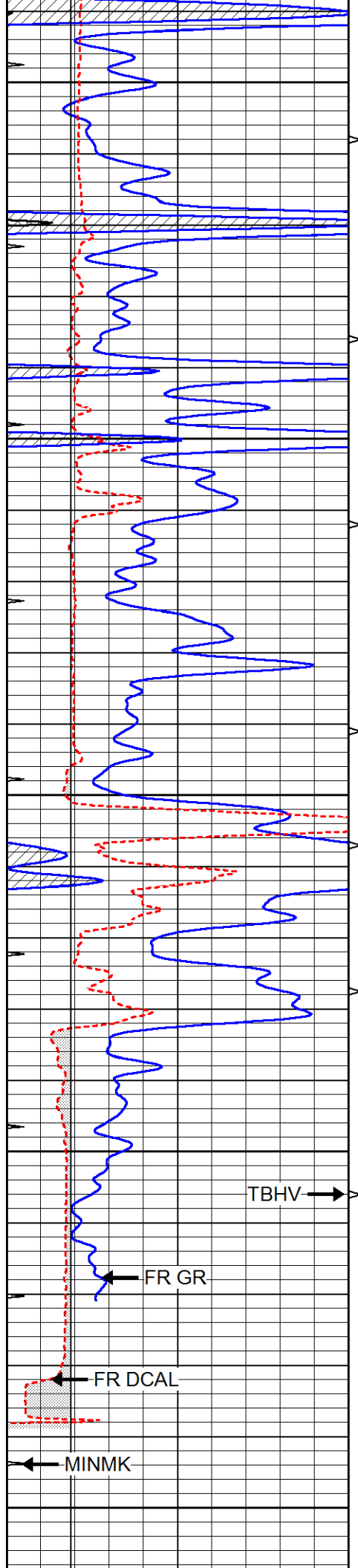
4150

4200

4250

4300





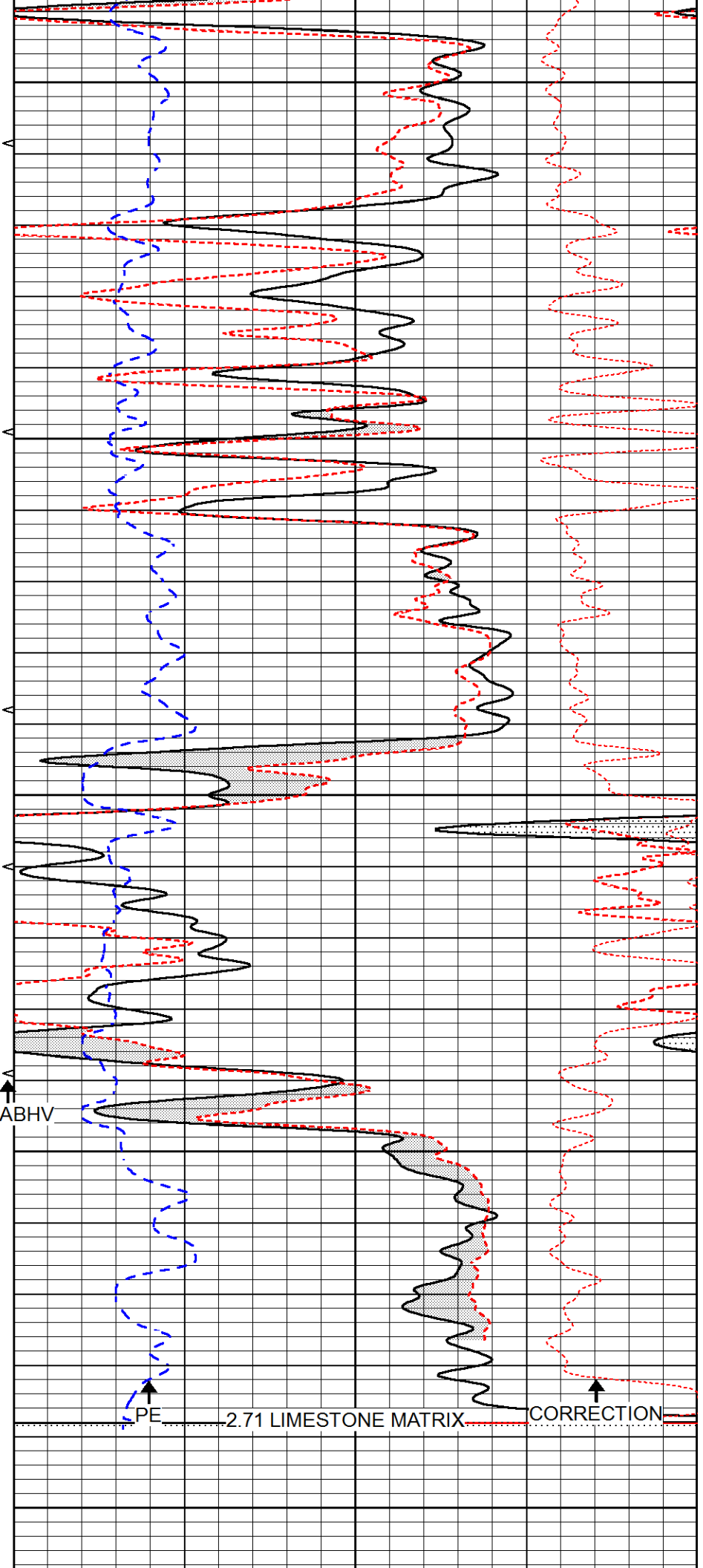
4350

4400

4450

4500

4550



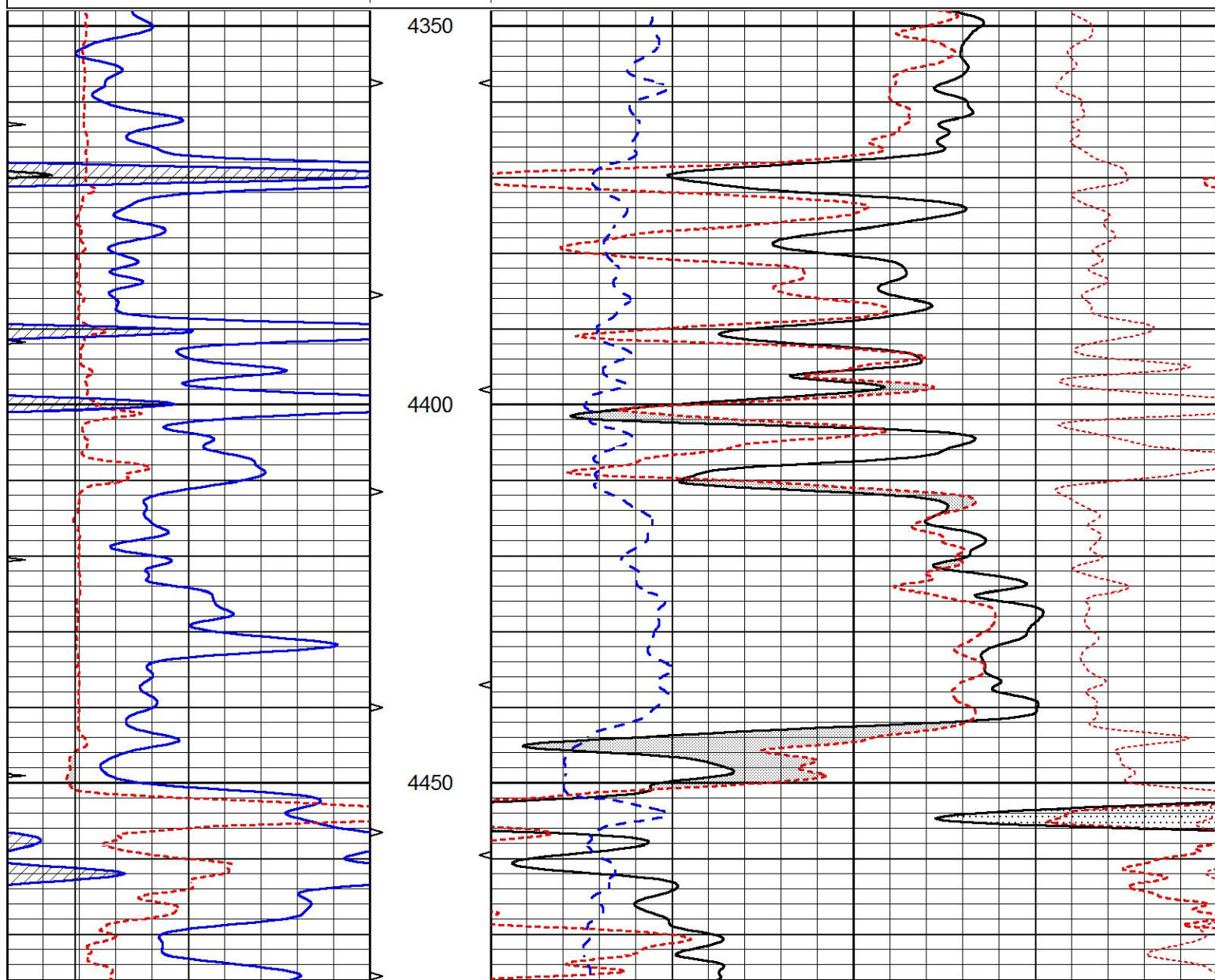
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10			

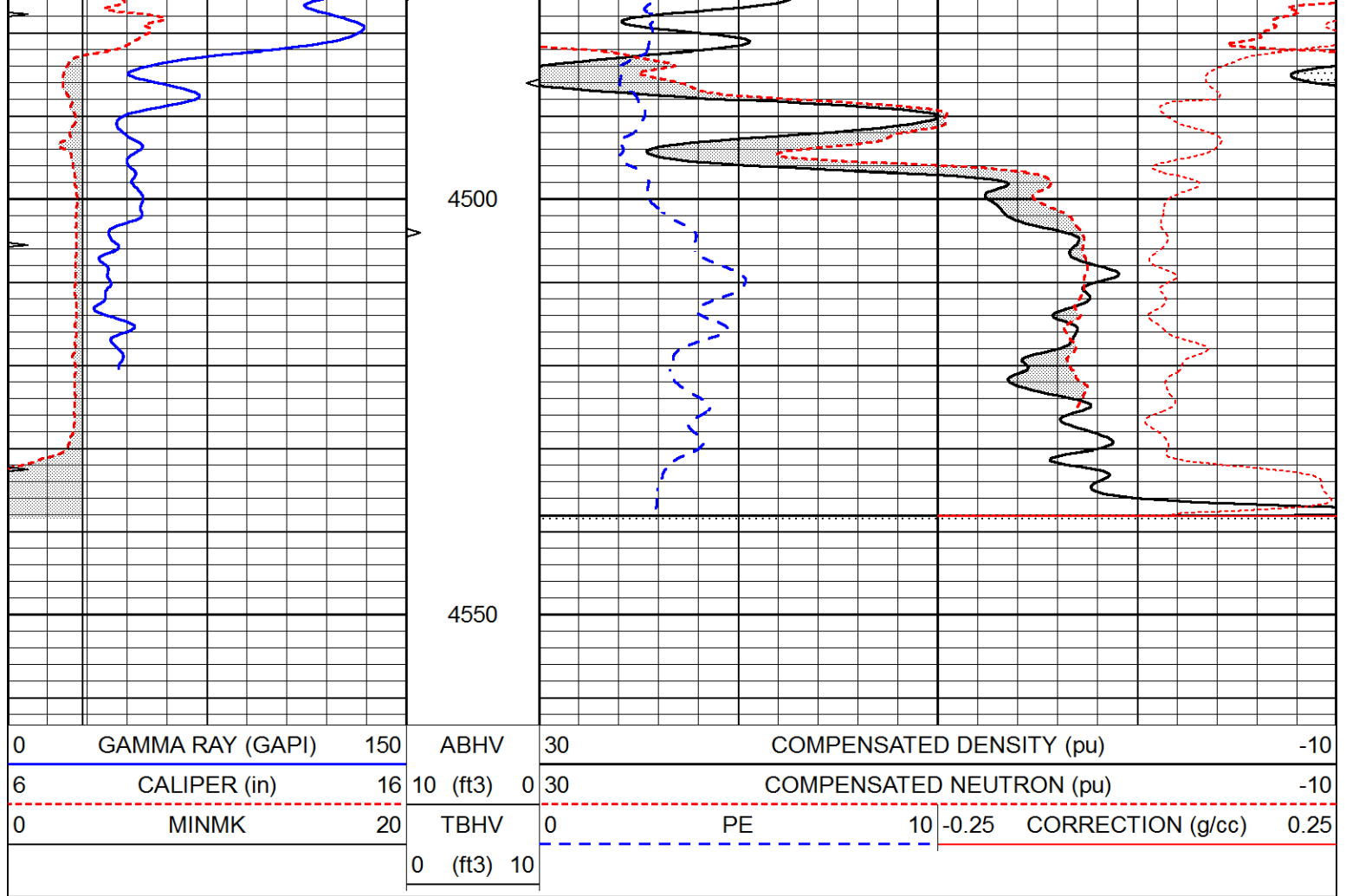


REPEAT SECTION

Database File 6703pe.db
 Dataset Pathname pass2.4R
 Presentation Format _ldt_neu
 Dataset Creation Sun Jul 03 08:30:07 2022
 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	6703pe.db								
Dataset Pathname	pass3.1M								
Dataset Creation	Sun Jul 03 07:57:39 2022								
Dual Induction Calibration Report									
Serial-Model:					PROBE8-DILG				
Surface Cal Performed:					Sun Jul 03 07:10:03 2022				
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	4.000	
Medium	0.029	0.796	V	0.000	464.000	mmho/m	600.000	-8.000	
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	
113		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		
Compensated Neutron Calibration Report								
Serial Number:			61					
Tool Model:			Q					

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:	Mon Jun 20 01:31:16 2022	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	276.0	cps
Sensitivity:	0.8500	GAPI/cps