



COMPENSATED DENSITY/NEUTRON PE LOG

Company SHAKESPEARE OIL COMPANY, INC.

Well CALE #3-27

Field CALE

County GOVE State KANSAS

Location: API #: 15-063-22412-0000

1940' FNL & 1965' FEL

SW - NE - SW - NE

SEC 27 TWP 11S RGE 31W

Other Services
DIL/MEL

Elevation

K.B. 2930

D.F. 2928

G.L. 2919

Permanent Datum GROUND LEVEL Elevation 2919
Log Measured From KELLY BUSHING 11' A.G.L.
Drilling Measured From KELLY BUSHING

Date 6/25/22

Run Number ONE

Depth Driller 4600

Depth Logger 4598

Bottom Logged Interval 4574

Top Log Interval 3500

Casing Driller 8 5/8" @ 266'

Casing Logger 266

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.2/56

pH / Fluid Loss 10.5/8.0

Source of Sample FLOWLINE

Rm @ Meas. Temp 1.40 @ 73F

Rmf @ Meas. Temp 1.05 @ 73F

Rmc @ Meas. Temp 1.68 @ 73F

Source of Rmf / Rmc MEASURED

Rm @ BHT .845 @ 121F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 10:45 P.M.

Maximum Recorded Temperature 121F

Equipment Number 8916

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By KENT MATSON

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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

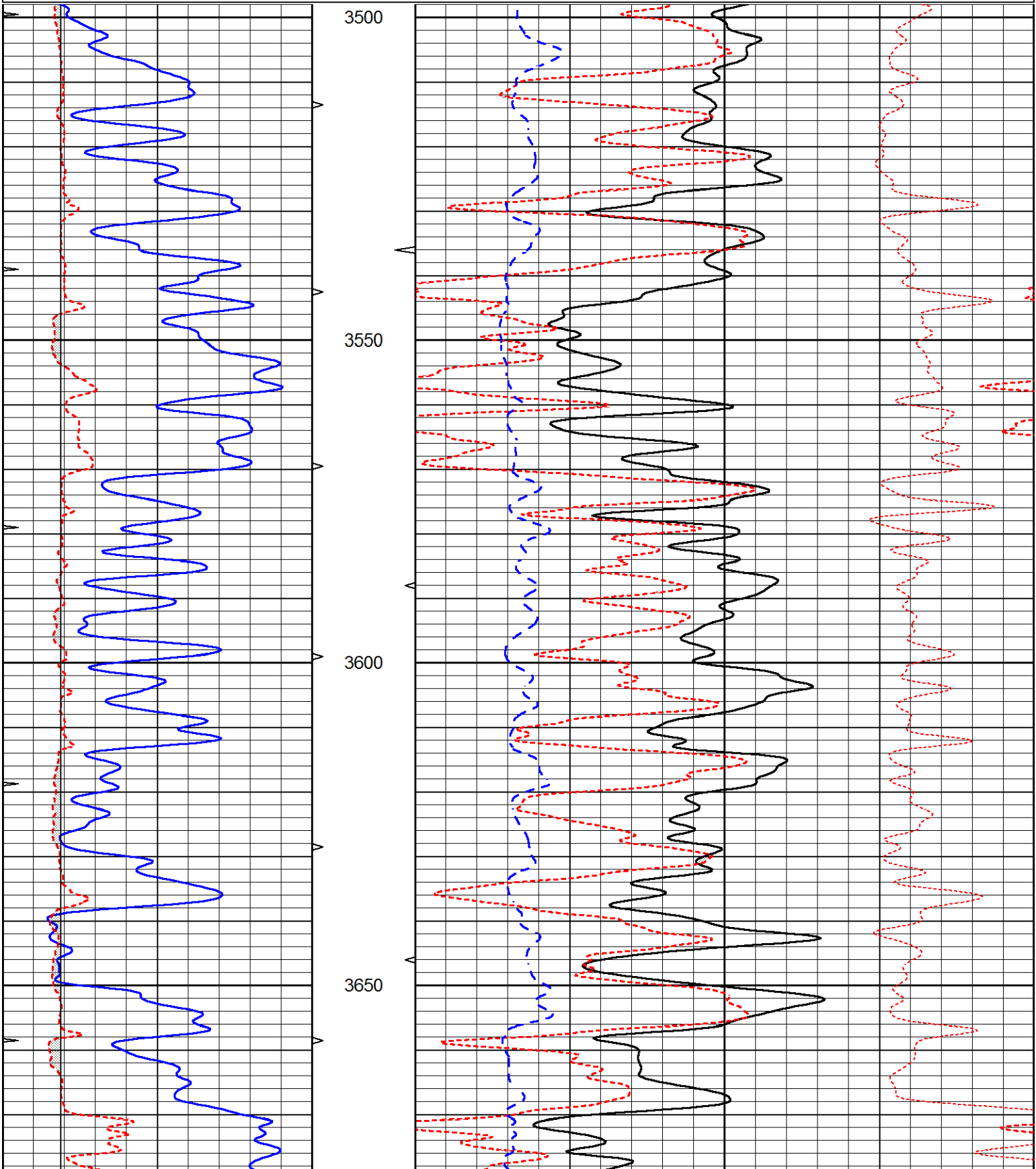
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395
DIRECTIONS:
I-70 & CAMPUS EXIT, 2 1/2 S., 1W., S. INTO

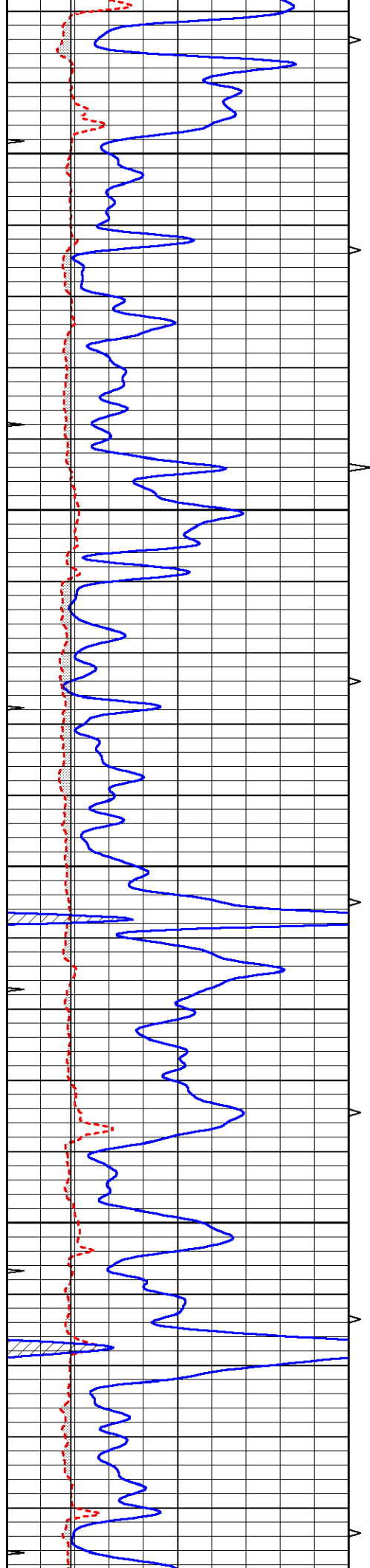


MAIN SECTION

Database File	6573pe.db
Dataset Pathname	pass3.1M
Presentation Format	_ldt_neu
Dataset Creation	Sun Jun 26 00:34:56 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	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25
			0 (ft3)	10	CORRECTION (g/cc)	0.25



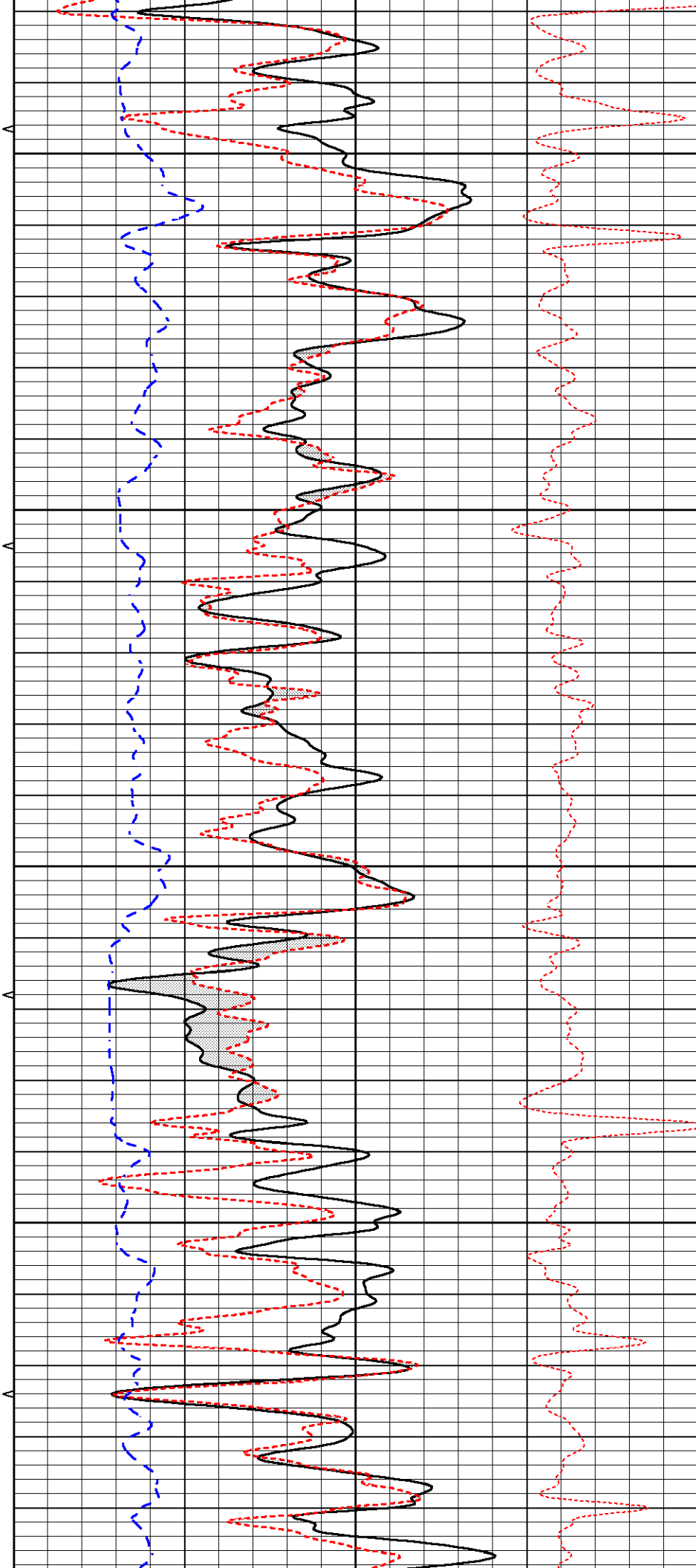


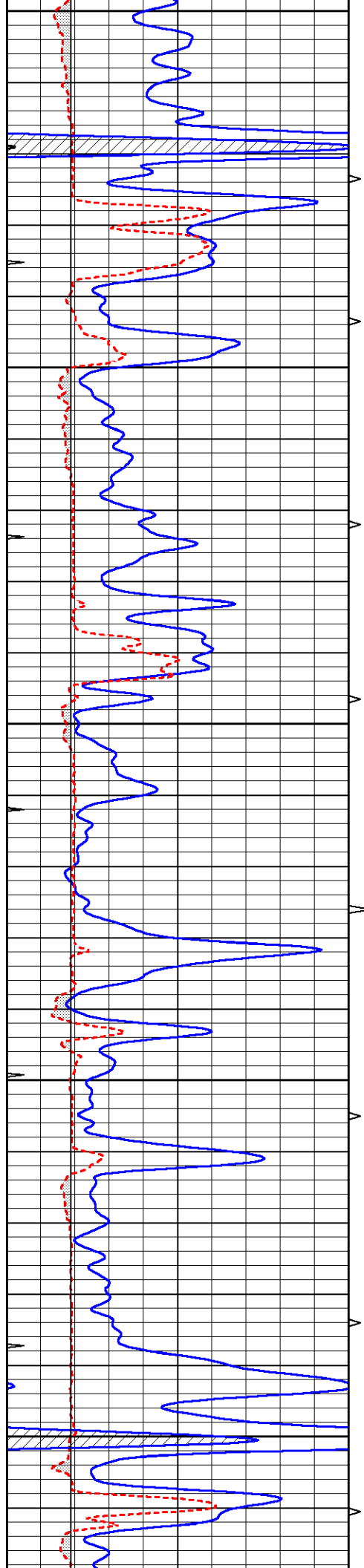
3700

3750

3800

3850





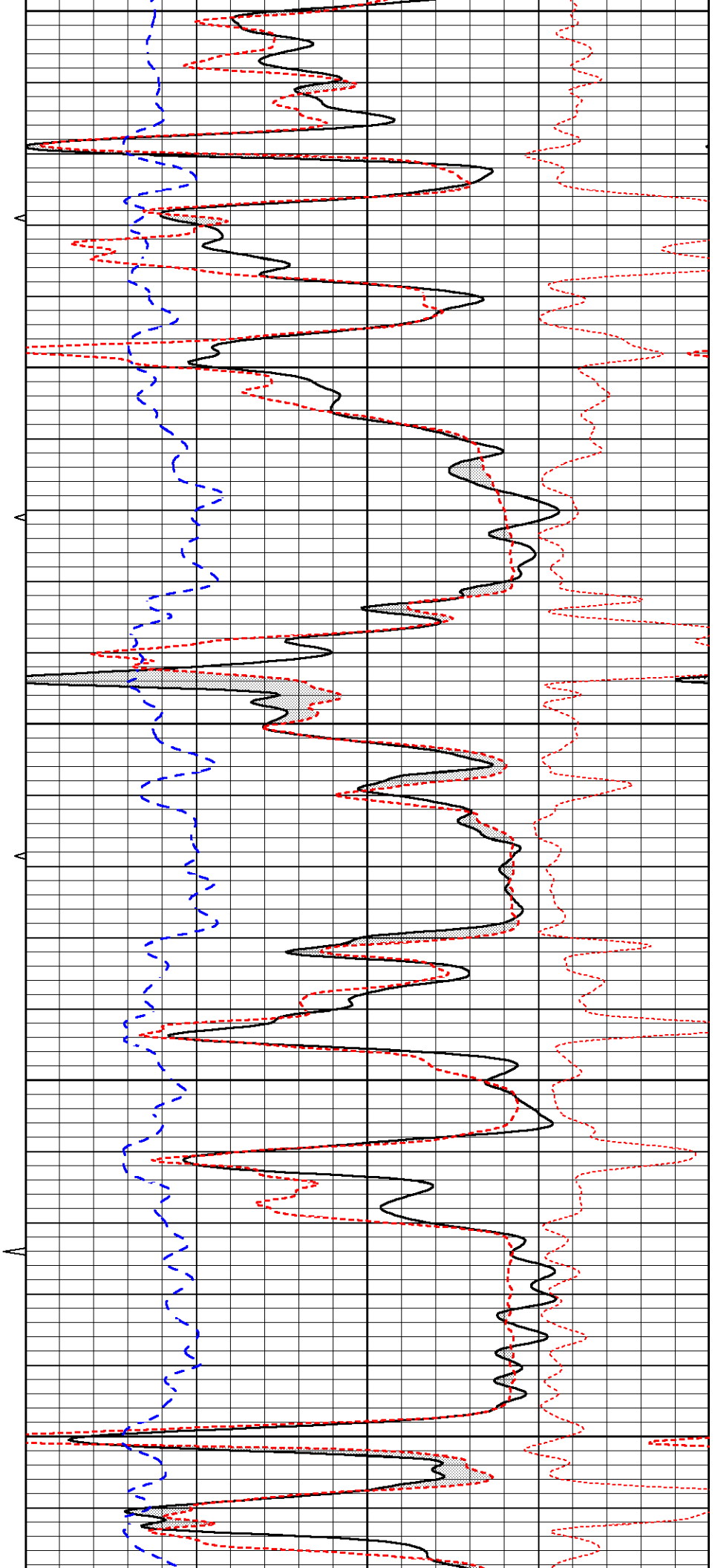
3900

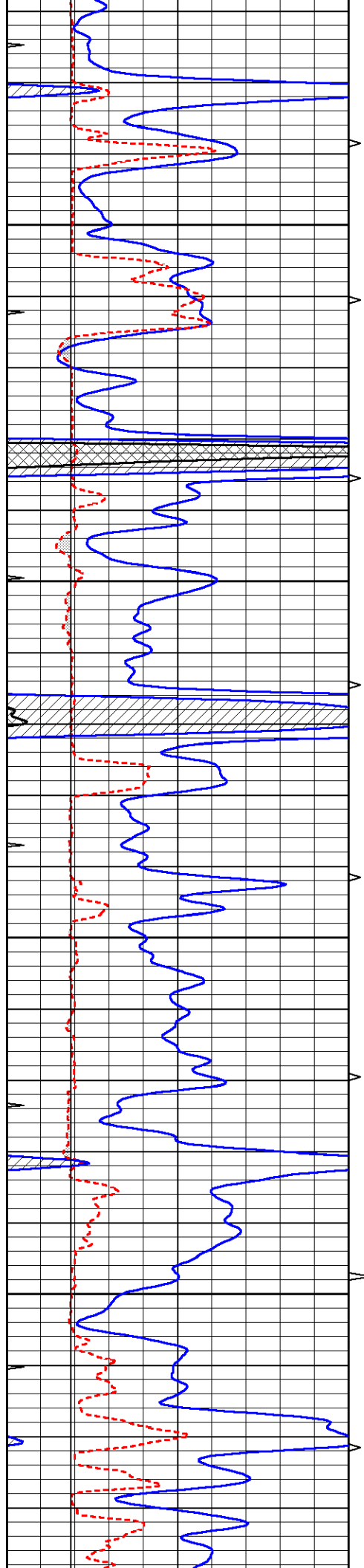
3950

4000

4050

4100



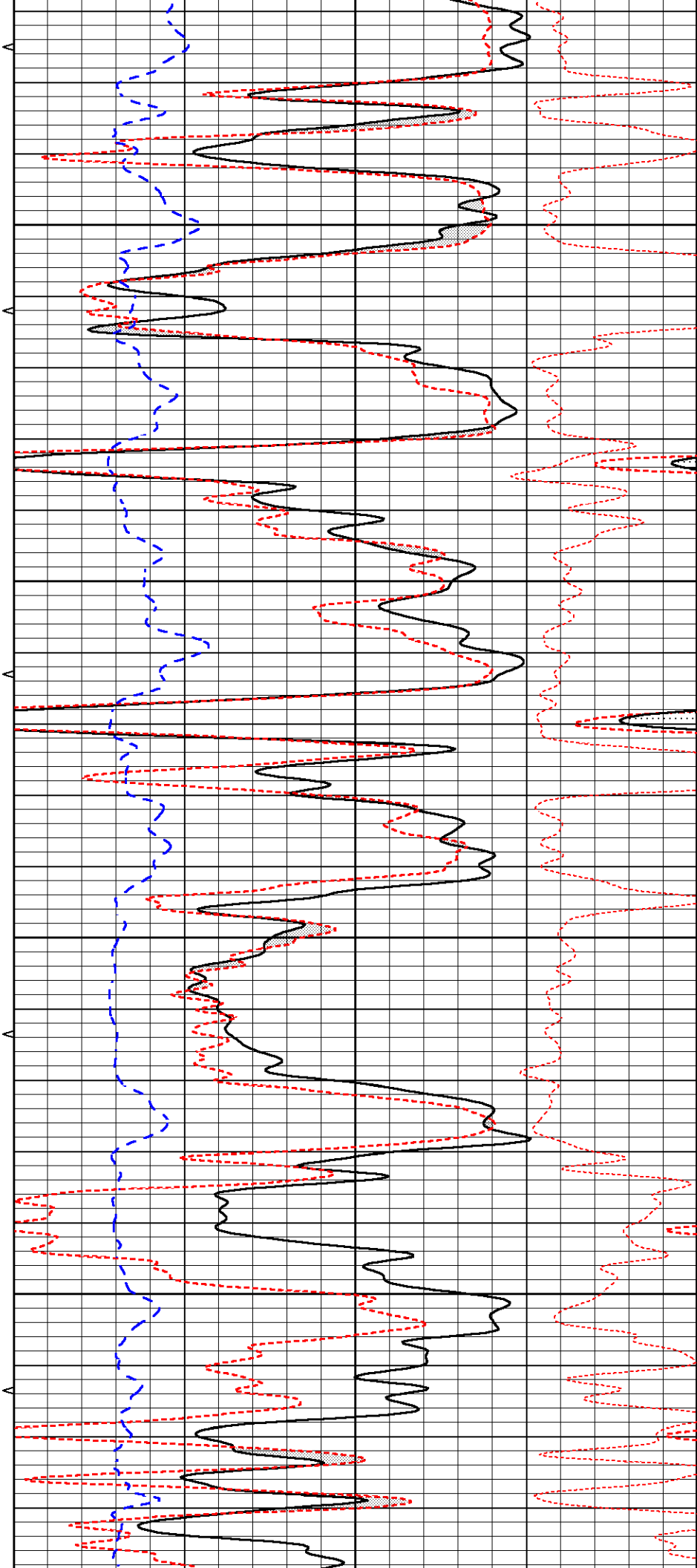


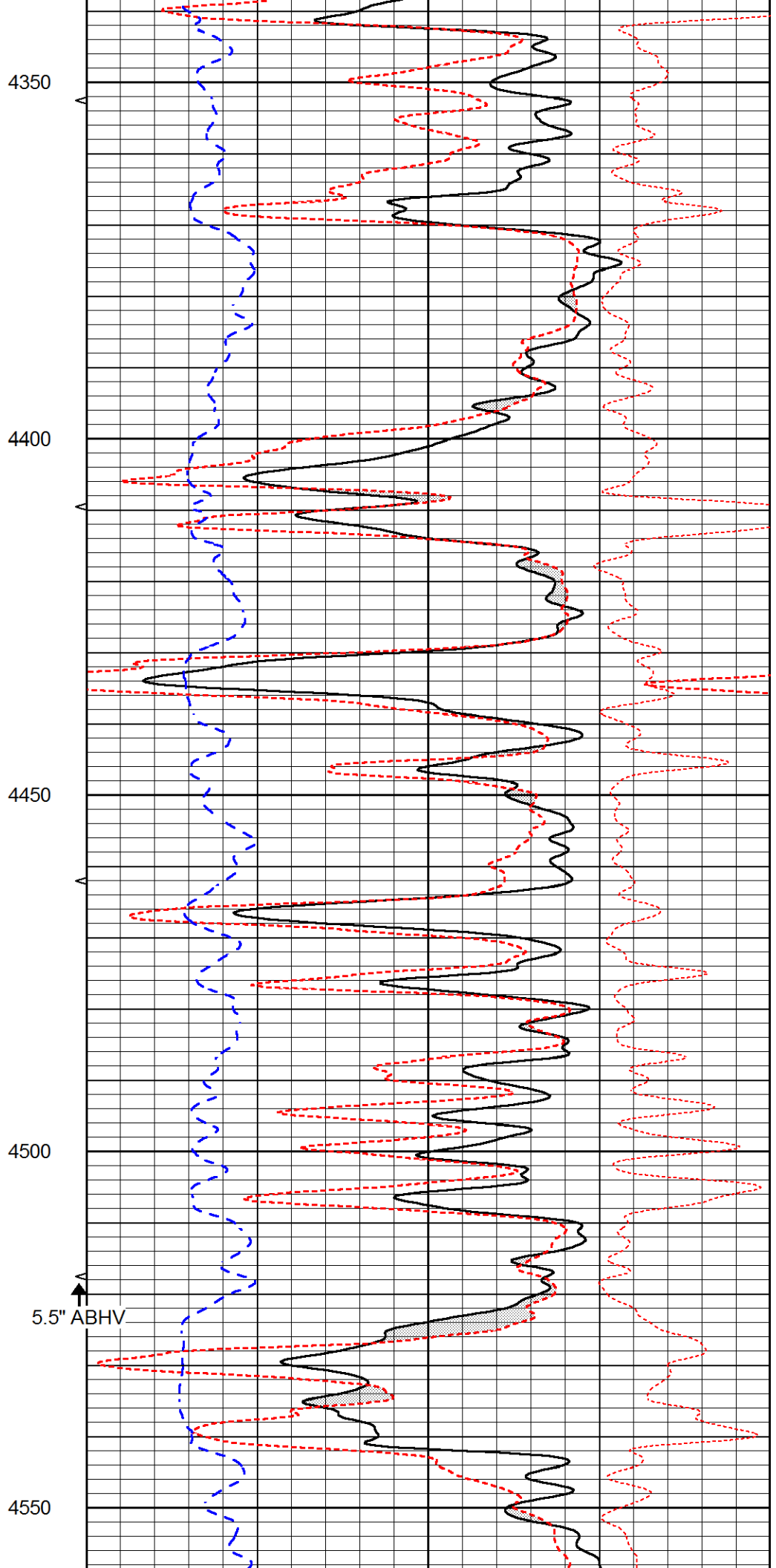
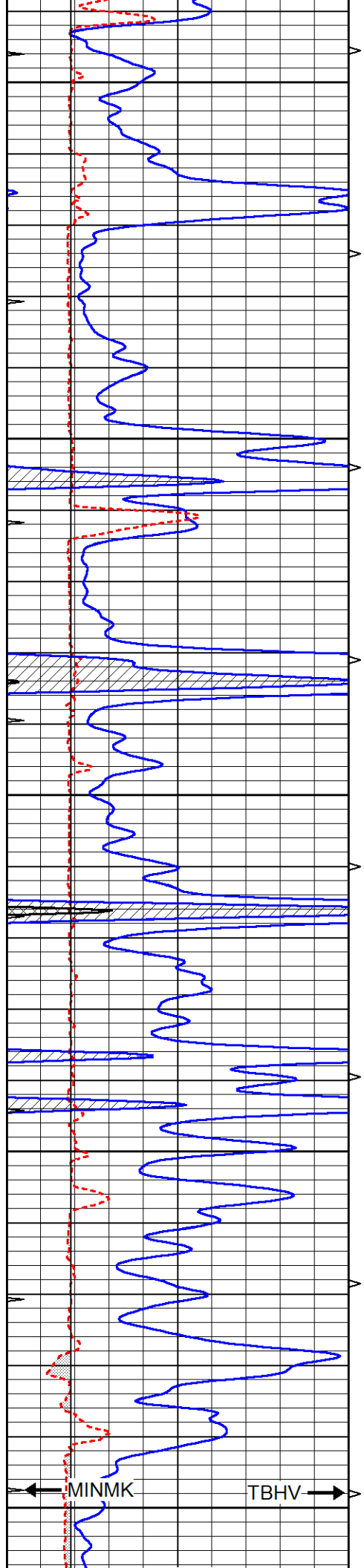
4150

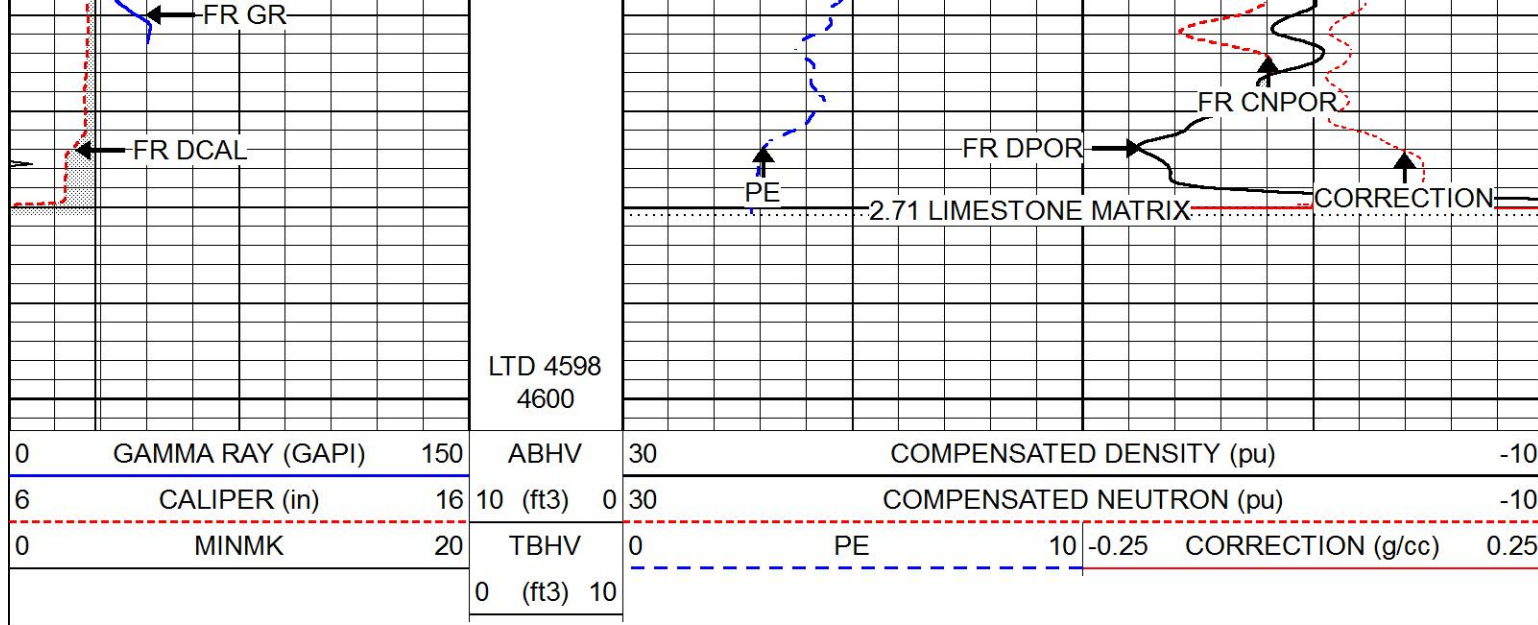
4200

4250

4300



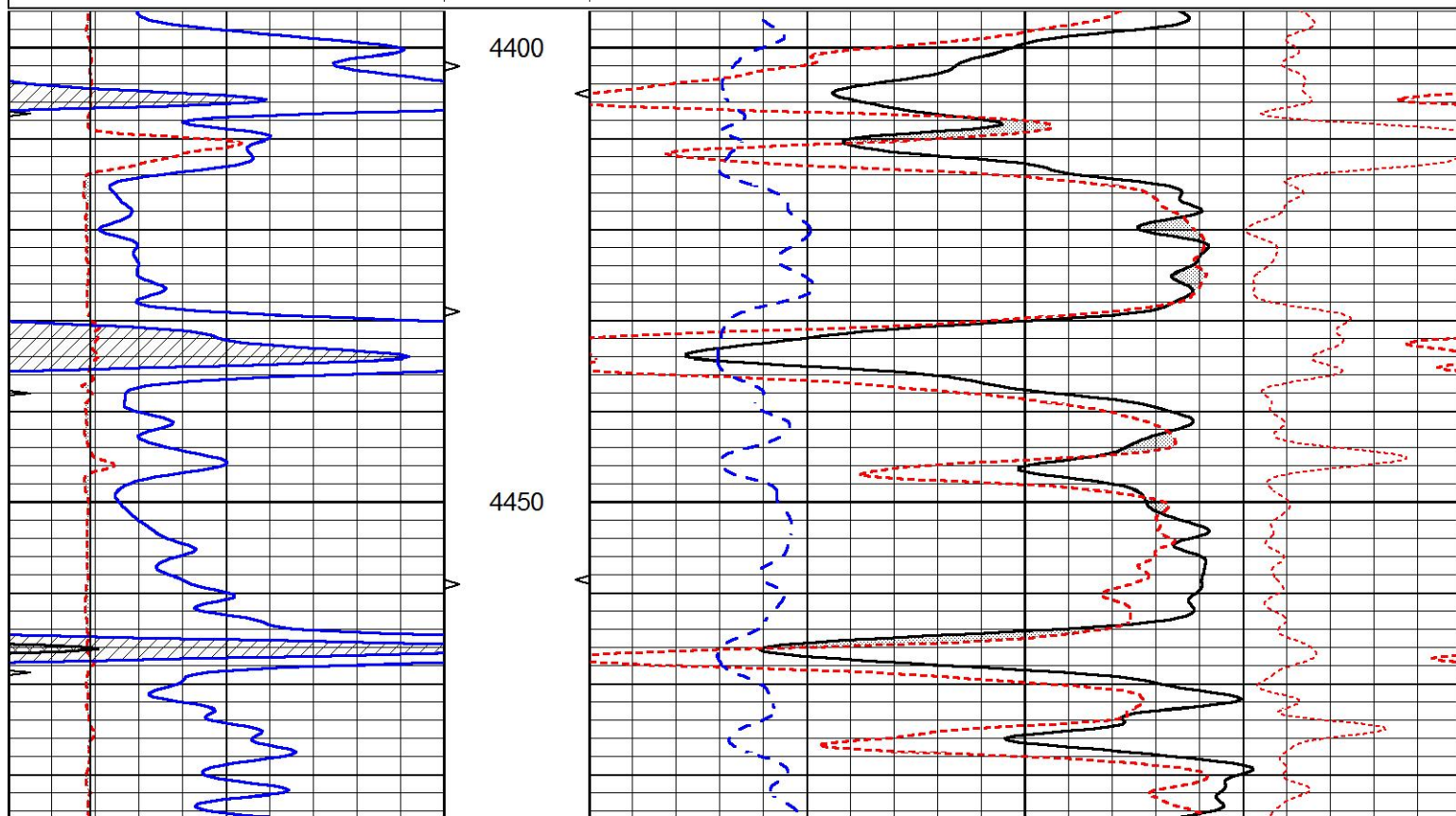


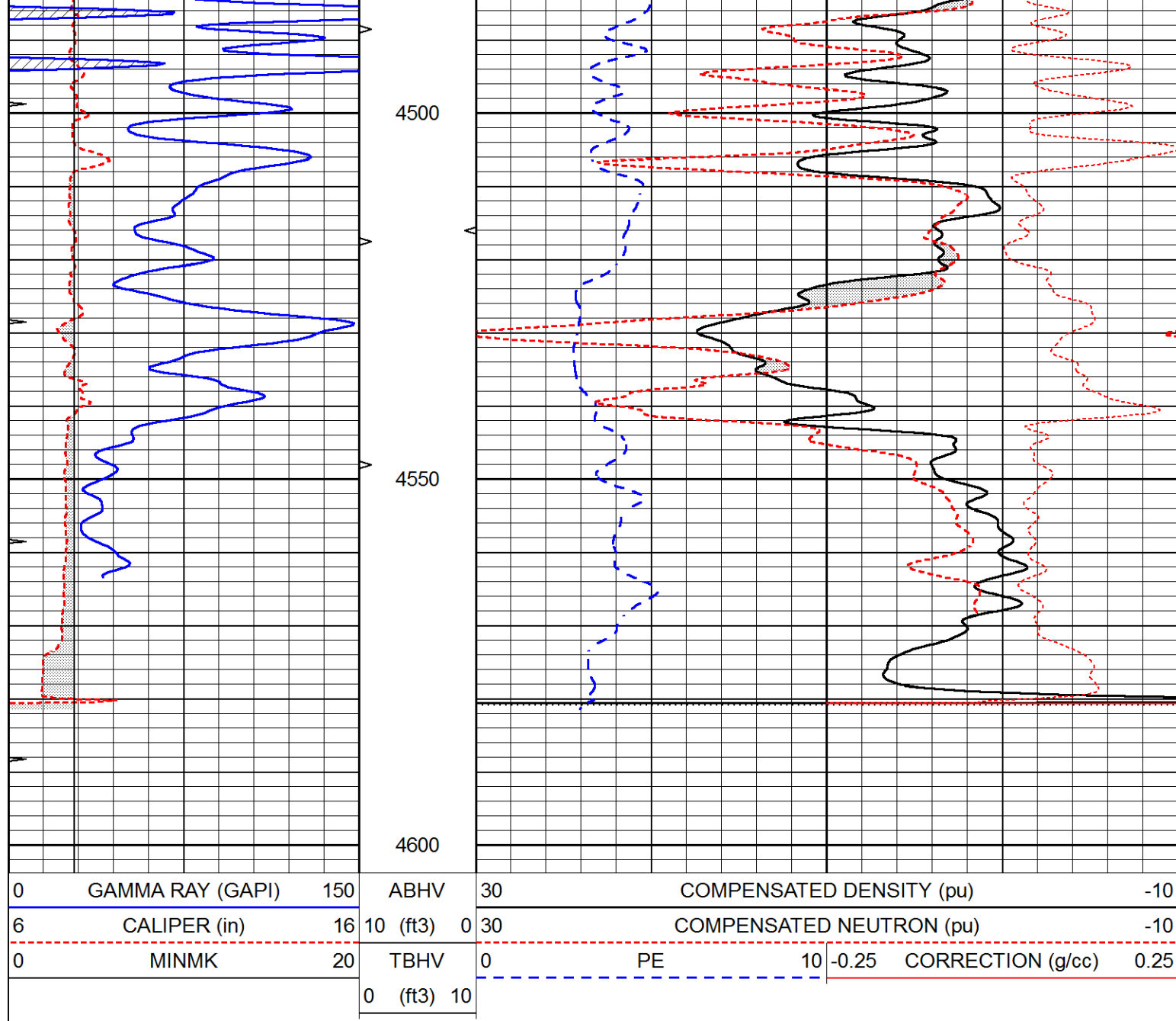


REPEAT SECTION

Database File 6573pe.db
 Dataset Pathname pass2.1R
 Presentation Format _ldt_neu
 Dataset Creation Sun Jun 26 00:44:06 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 6573pe.db
Dataset Pathname pass3.1M
Dataset Creation Sun Jun 26 00:34:56 2022

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
Surface Cal Performed: Sat Jun 25 23:49:39 2022
Downhole Cal Performed: Mon Sep 10 14:28:38 2018
After Survey Verification Performed: Mon Sep 10 14:28:40 2018

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	600.000	0.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	600.000	-12.000
Internal:	Zero			Cal			Results	
	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619

Deep	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

Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho	0.0000	0.0000	0.0000	0.0000	g/cc
Measured Correction	0.0000	0.0000	0.0000	0.0000	g/cc
Measured Pe		0.0000		0.0000	
Compensated Neutron Calibration Report					
Serial Number:		6I			
Tool Model:		G			
CALIBRATION					
	Detector	Readings		Target	Normalization
	Short Space	1.00	cps	1.00	cps
	Long Space	1.00	cps	1.00	cps
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		