



COMPENSATED
DENSITY/NEUTRON
PE/LOG

Company	WHITE EXPLORATION INC.	Company	WHITE EXPLORATION INC.
Well	SPENCER'S BLUFFS #1-21	Well	SPENCER'S BLUFFS #1-21
Field	WILDCAT	Field	WILDCAT
County	BARBER	County	BARBER
State	KANSAS	State	KANSAS
Location:	API # : 15-007-24367-0000 3590' FSL & 880' FEL	Other Services DIL/MEL SON	
Permanent Datum	SEC 21 TWP 31S RGE 12W	Elevation	
Log Measured From	GROUND LEVEL Elevation 1639	K.B. 1646	
Drilling Measured From	KELLY BUSHING 7' A.G.L. KELLY BUSHING	D.F. 1642	
		G.L. 1639	
Date	03/12/20		
Run Number	ONE		
Depth Driller	4680		
Depth Logger	4677		
Bottom Logged Interval	4657		
Top Log Interval	3300		
Casing Driller	8 5/8" @ 348		
Casing Logger	348		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3/51		
pH / Fluid Loss	10.5/10.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.52 @ 62F		
Rmf @ Meas. Temp	.39 @ 62F		
Rmc @ Meas. Temp	.62 @ 62F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.26 @ 122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	122F		
Equipment Number	1523		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	ANDY WHITE		

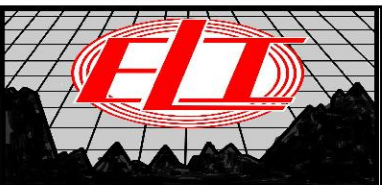
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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

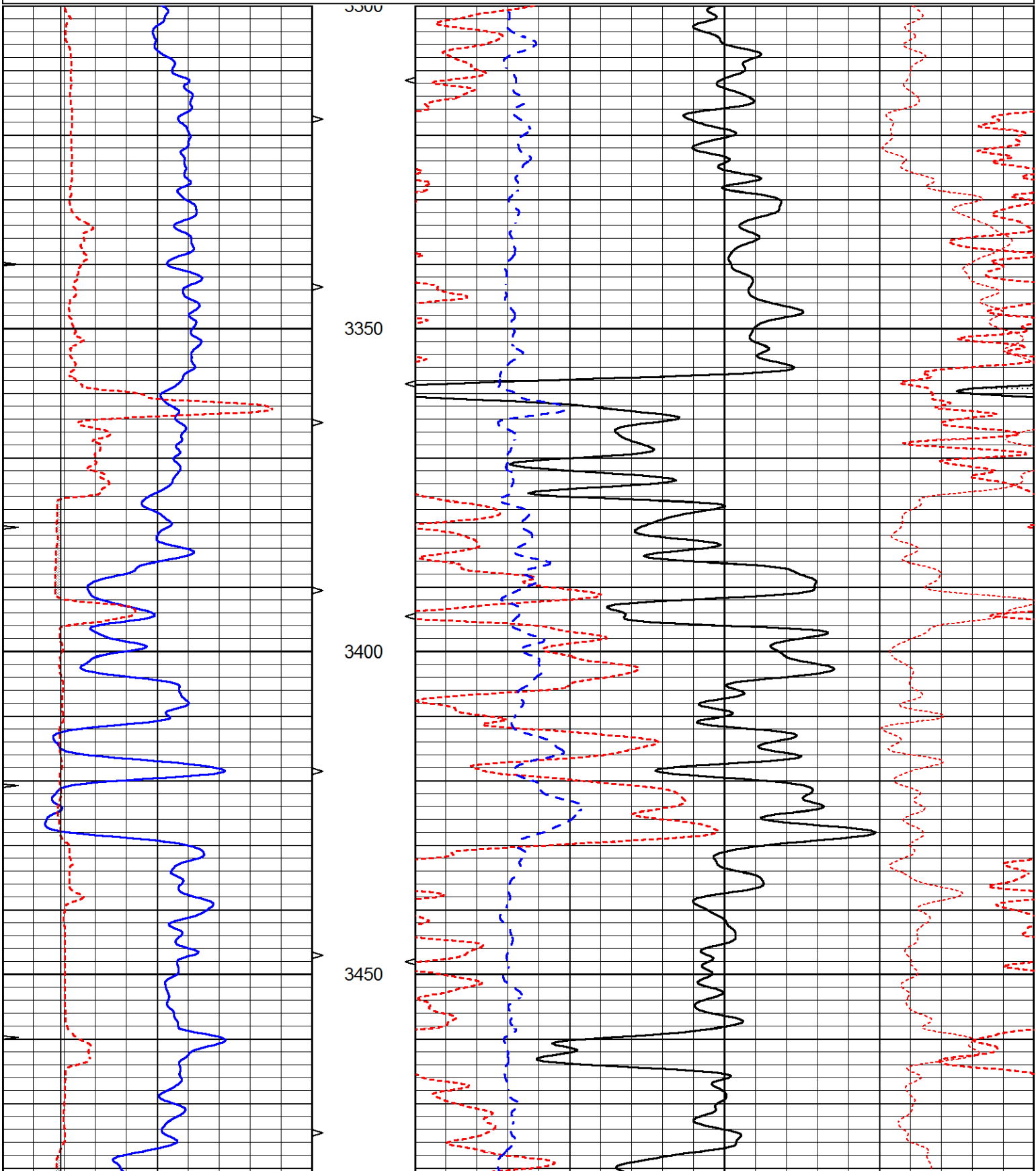
DIRECTIONS: SUN CITY RD FROM MEDICINE WEST 3 MILES TO SPRING CREEK RD.
NORTH 3.3 MILES, SE INTO.

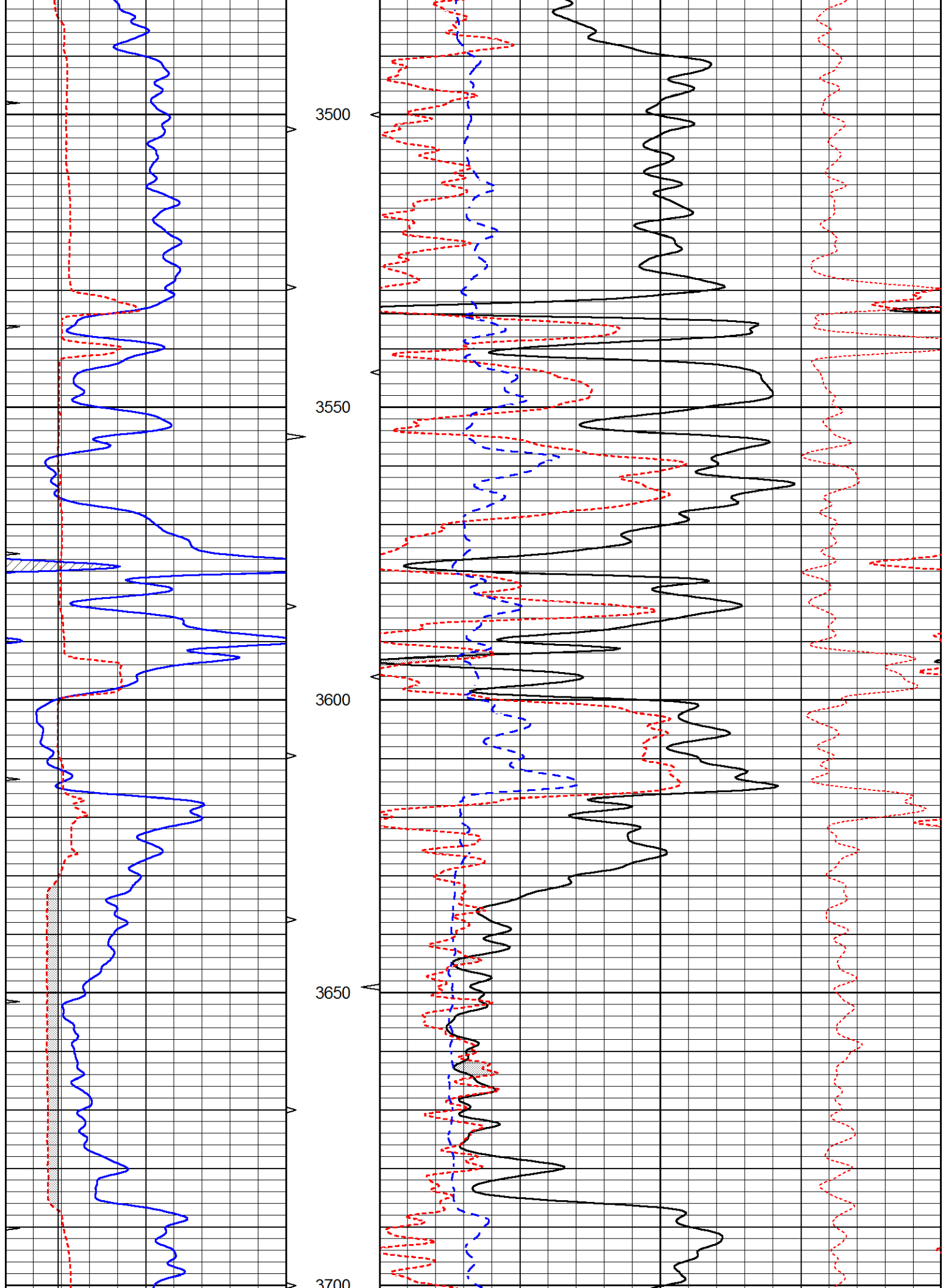


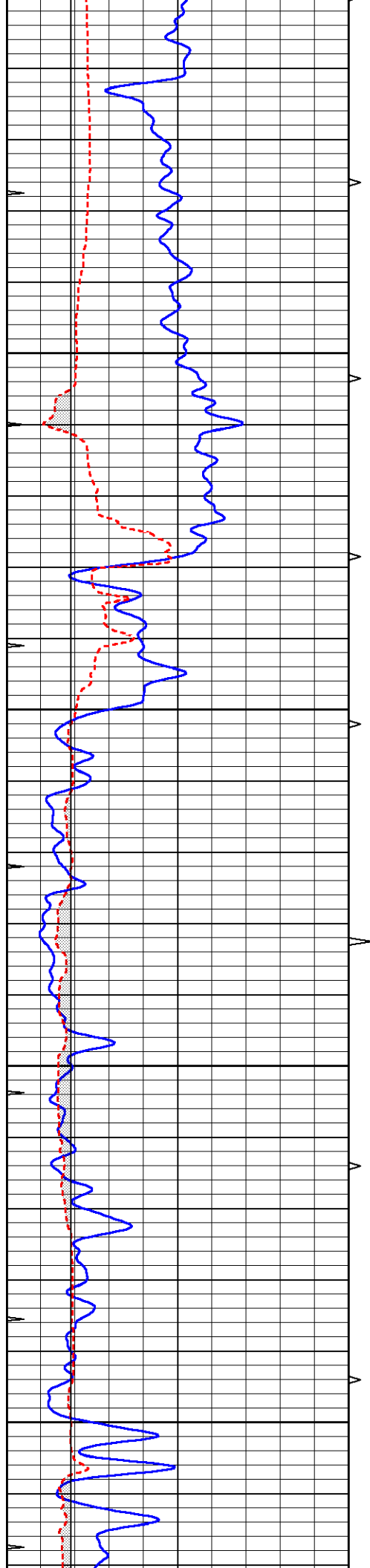
MAIN PASS

Database File	4683pe.db
Dataset Pathname	pass5.1
Presentation Format	_ldt_neu
Dataset Creation	Thu Mar 12 11:54:56 2020
Charted by	Depth in Feet scaled 1:240

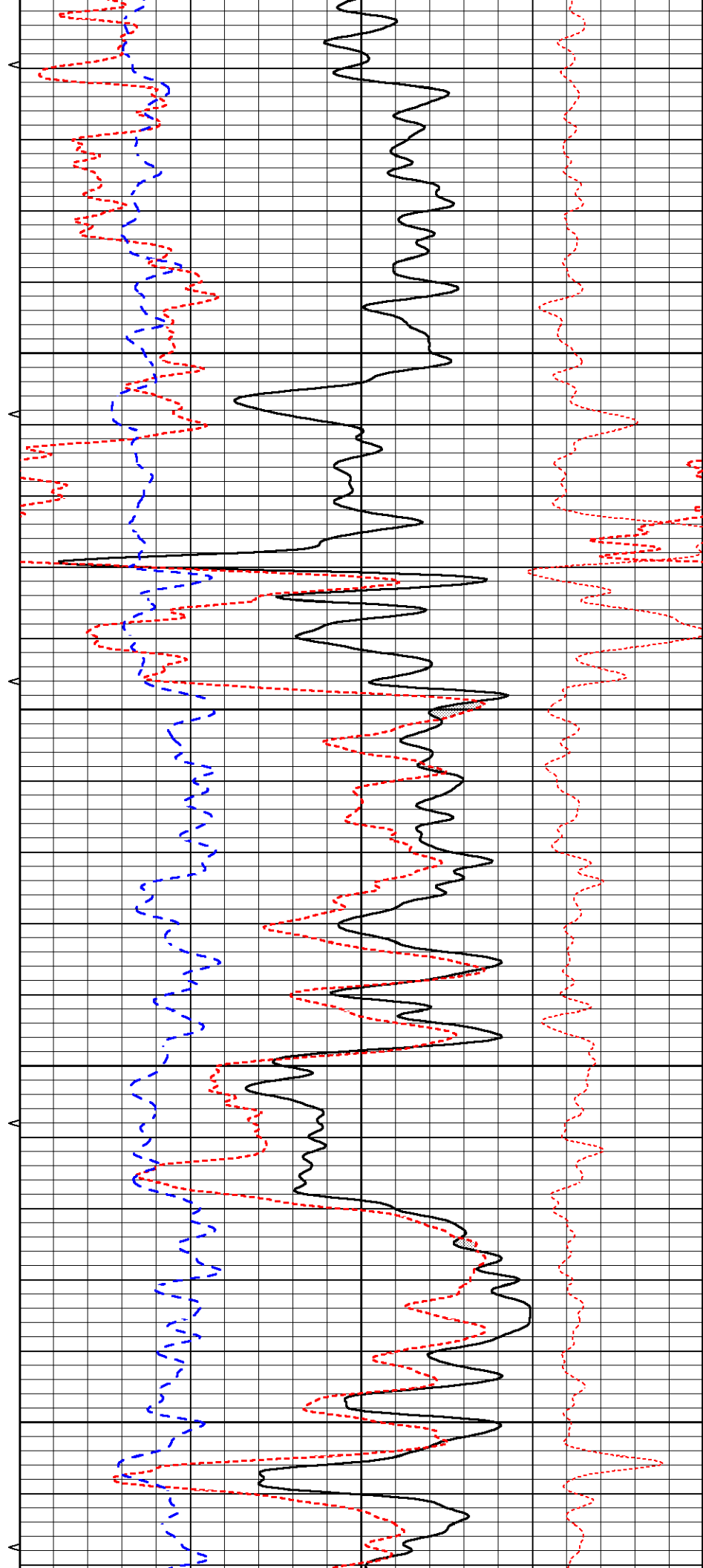
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25
			0 (ft3)	10	CORRECTION (g/cc)	0.25

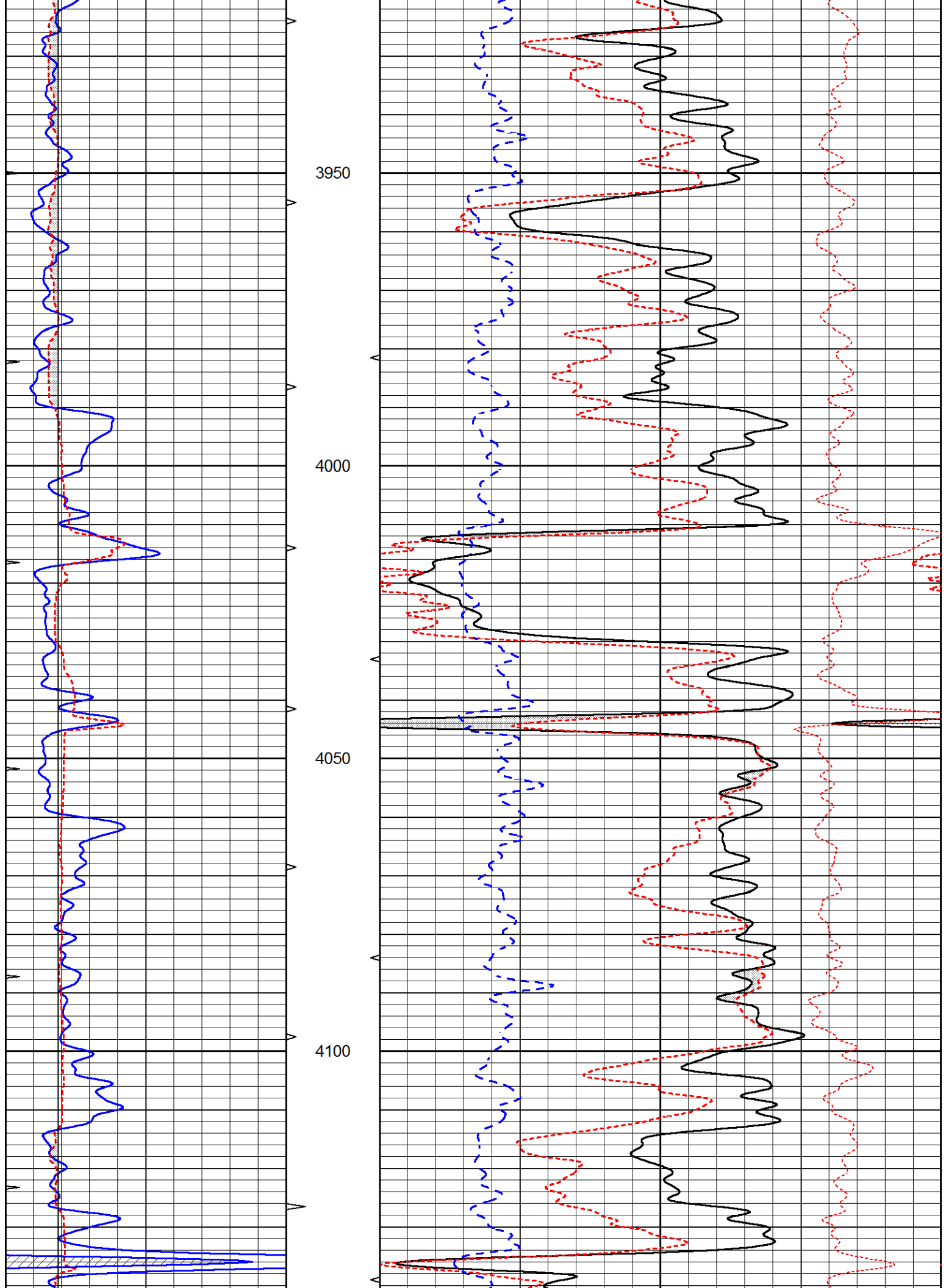


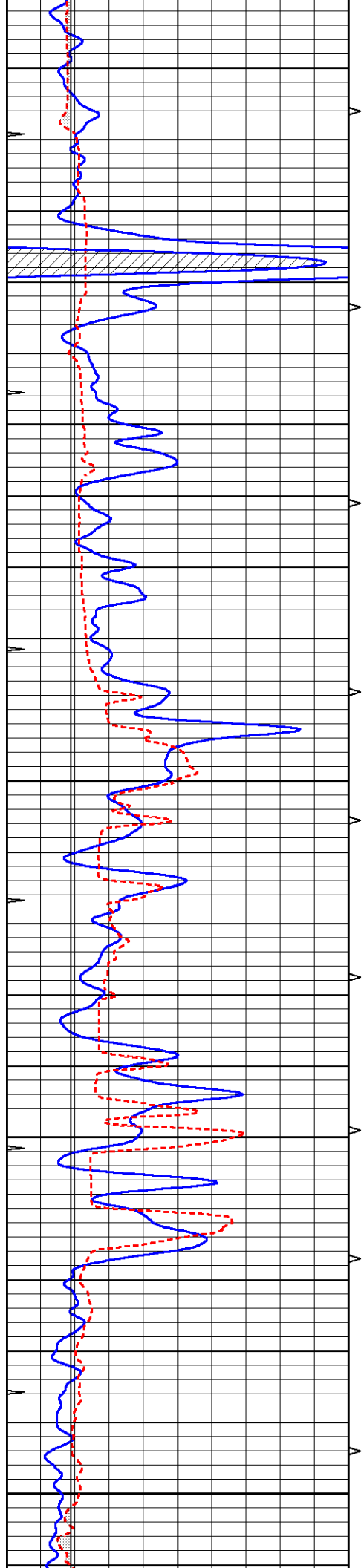




3700
3750
3800
3850
3900







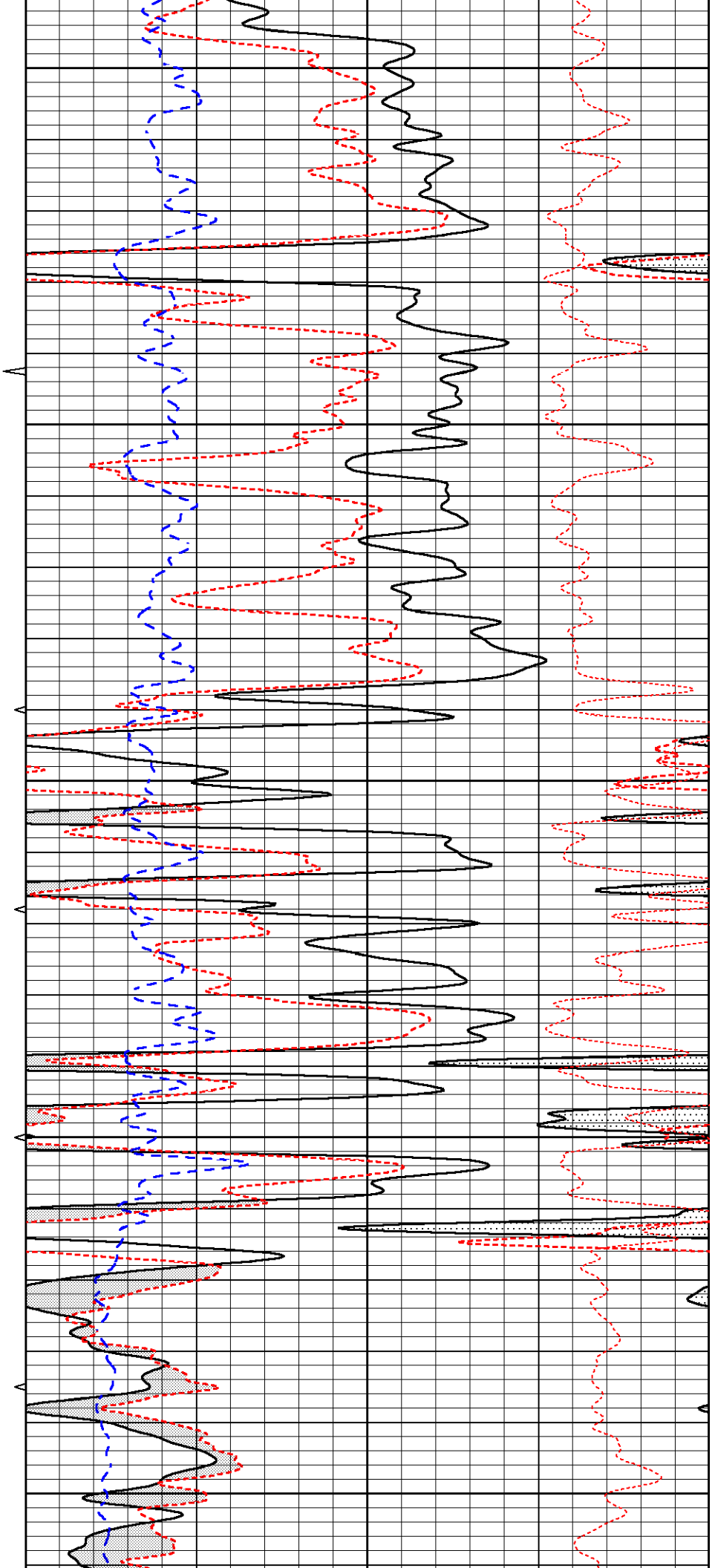
4150

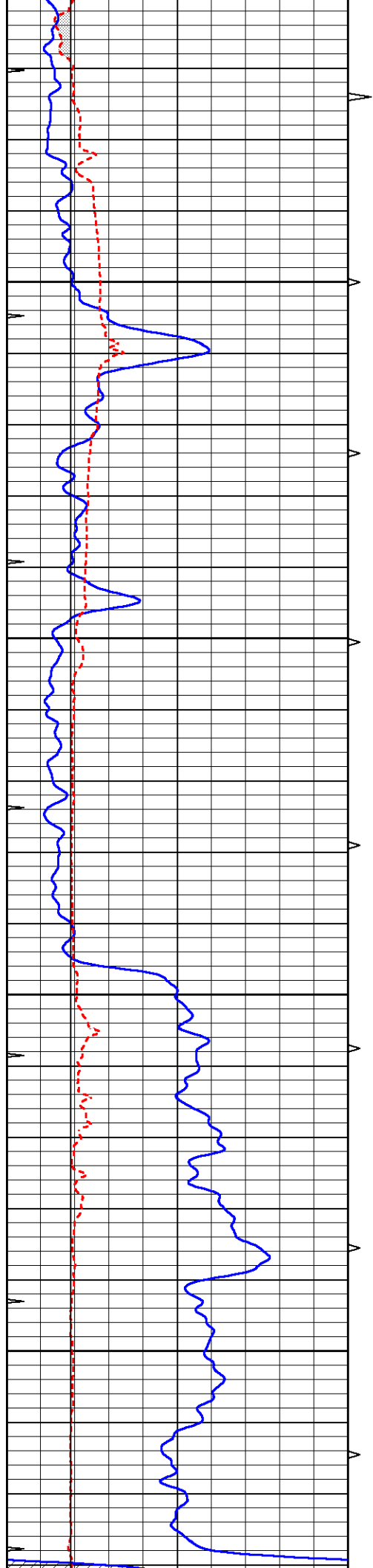
4200

4250

4300

4350



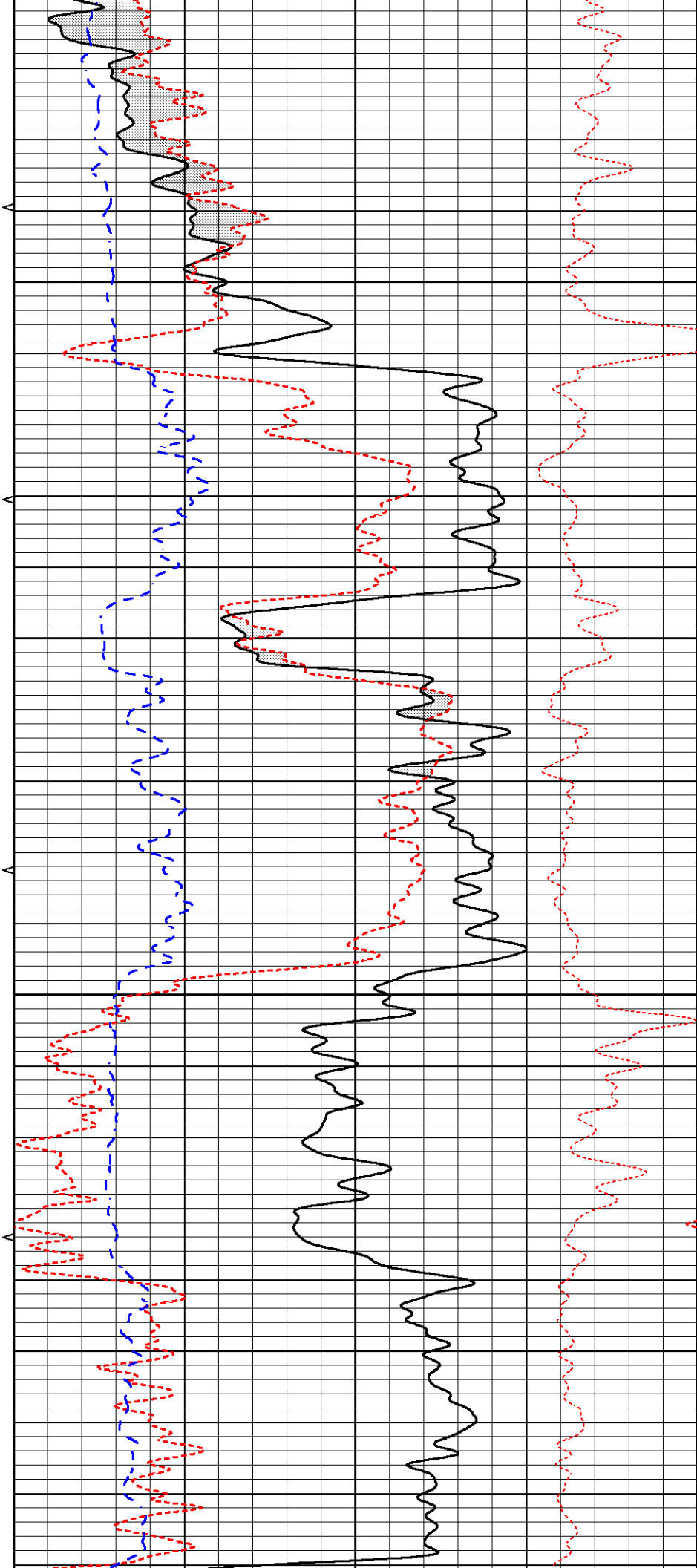


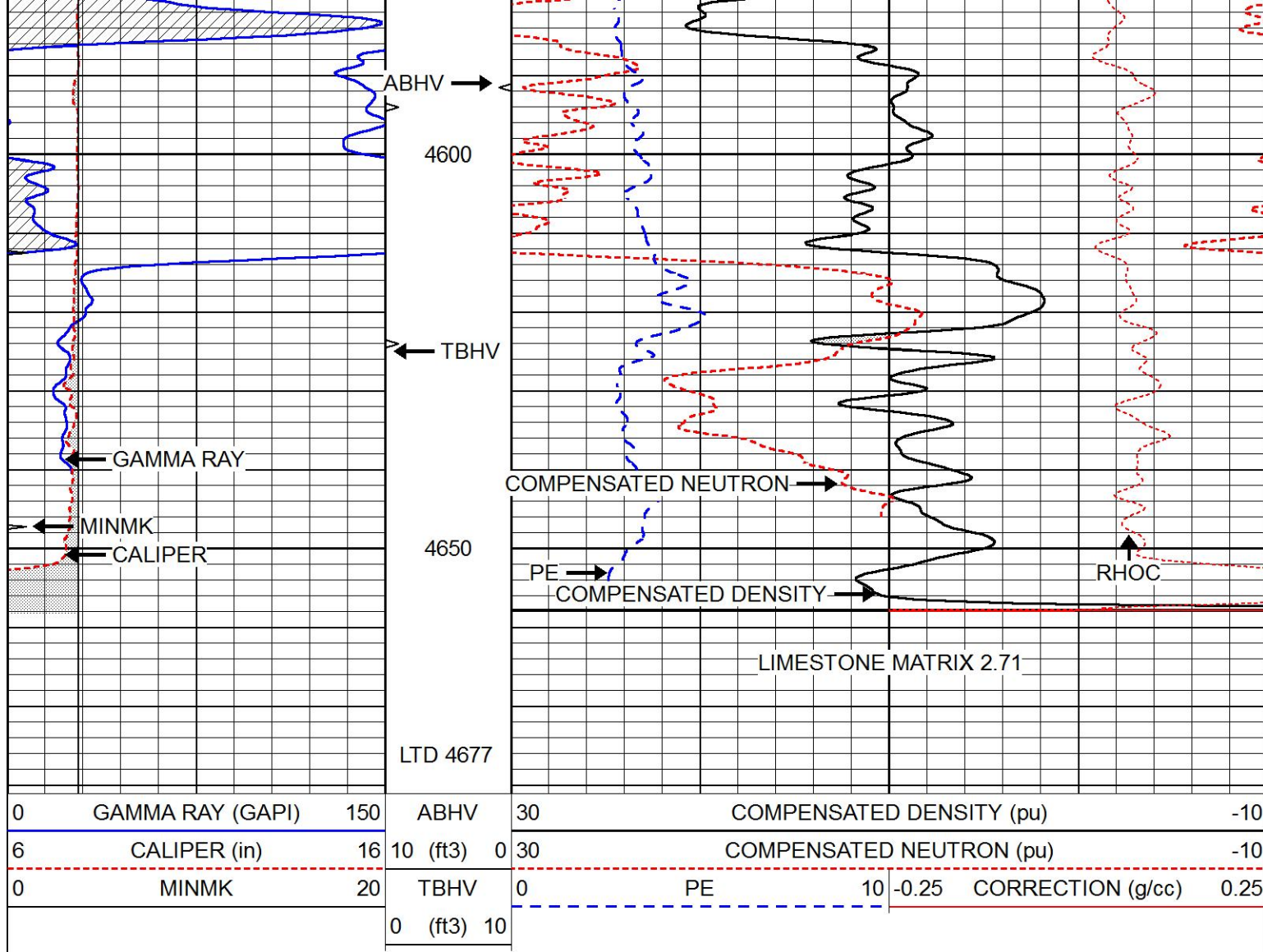
4400

4450

4500

4550

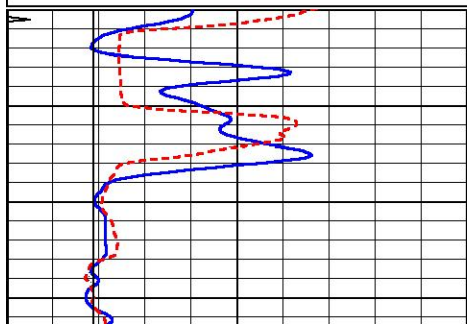




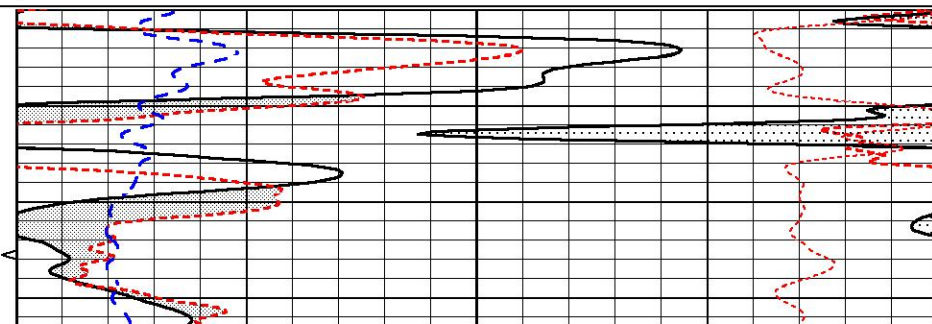
REPEAT SECTION

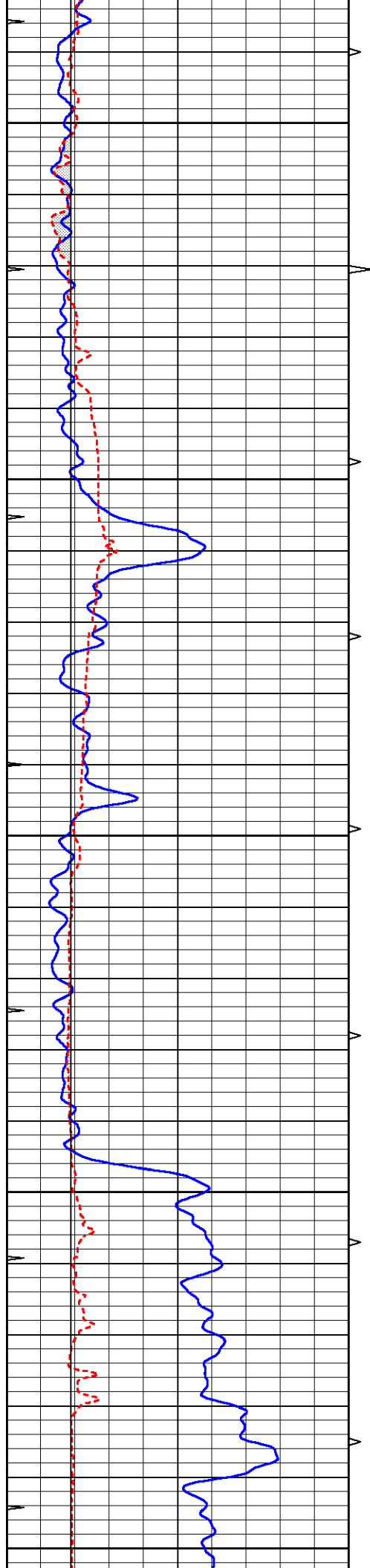
Database File 4683pe.db
 Dataset Pathname pass4.1
 Presentation Format _ldt_neu
 Dataset Creation Thu Mar 12 10:09:26 2020
 Charted by Depth in Feet scaled 1:240

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			



4500





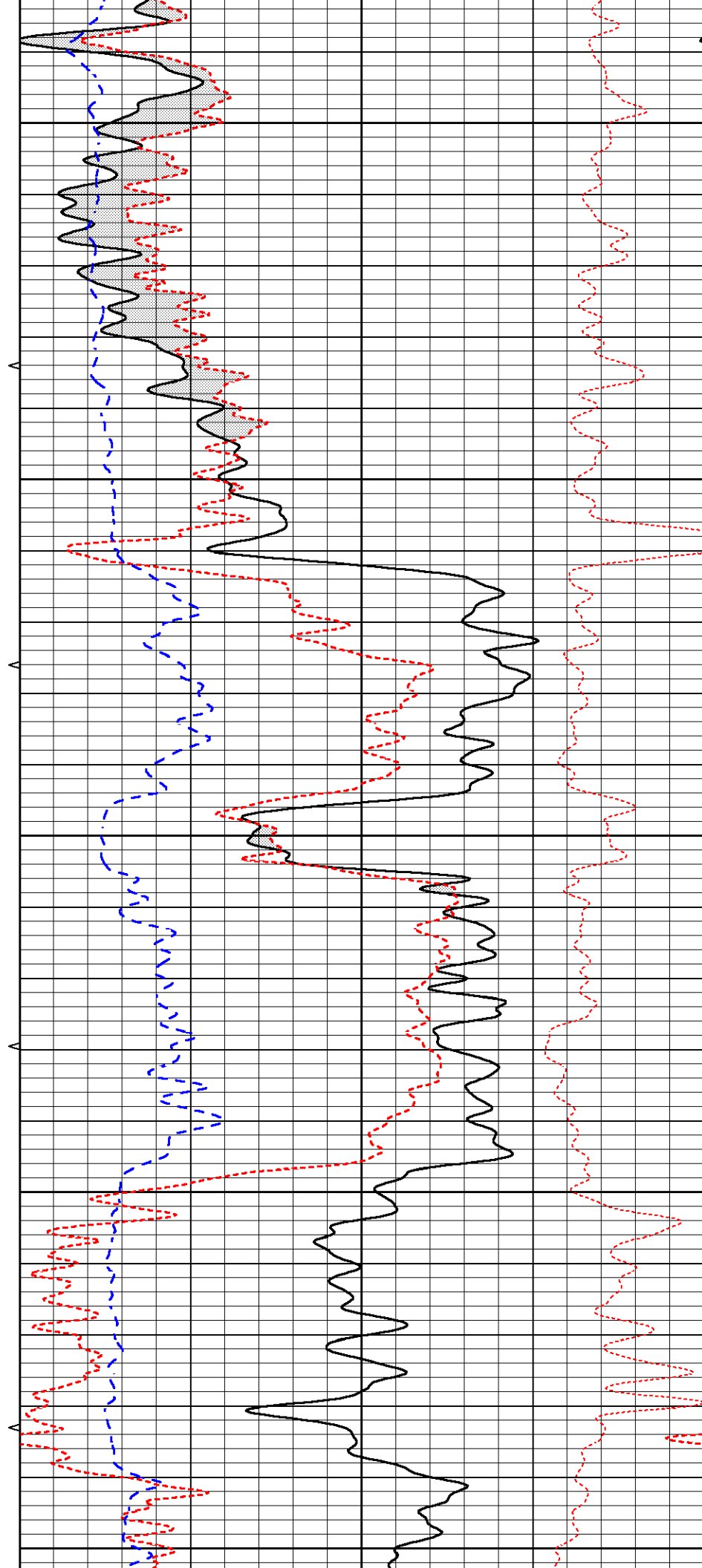
4350

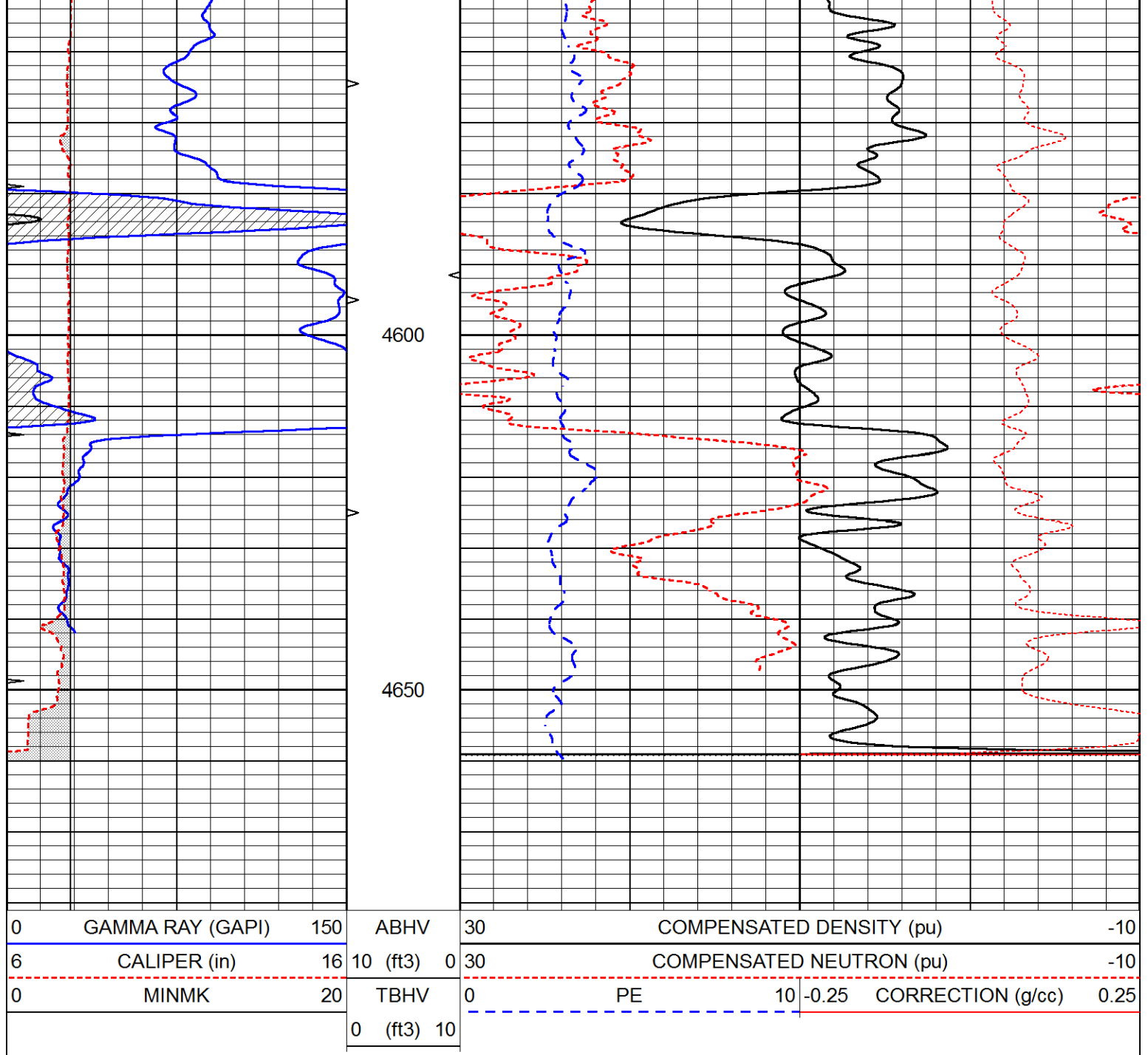
4400

4450

4500

4550





Calibration Report

Database File 4683pe.db
Dataset Pathname pass4.1
Dataset Creation Thu Mar 12 10:09:26 2020

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

Loop:	Readings			References			Results	
	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 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: Tool Model:		6I 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:		Wed Jul 03 12:57:34 2019				
Calibrator Value:		150.0	GAPI			
Background Reading:		0.0	cps			
Calibrator Reading:		276.0	cps			
Sensitivity:		0.5700	GAPI/cps			