



COMPENSATED DENSITY/NEUTRON LOG

Company RL INVESTMENT, LLC.

Well SMOKEY #1

Field UNNAMED

County LOGAN State KANSAS

Location: API #: 15-109-21627-0000

2305' FNL & 2015' FWL

Other Services
DIL/MEL

SEC 29 TWP 14S RGE 33W

Elevation

Permanent Datum GROUND LEVEL Elevation 2927
Log Measured From KELLY BUSHING 7' A.G.L.
Drilling Measured From KELLY BUSHING

K.B. 2934
D.F. 2932
G.L. 2927

Date 10/05/21

Run Number ONE

Depth Driller 4666

Depth Logger 4665

Bottom Logged Interval 4645

Top Log Interval 3400

Casing Driller 8 5/8" @ 214

Casing Logger 214

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.2/67

pH / Fluid Loss 9.1/10.5

Source of Sample FLOWLINE

Rm @ Meas. Temp .4@ 65F

Rmf @ Meas. Temp .30@ 65F

Rmc @ Meas. Temp .48 @ 65F

Source of Rmf / Rmc MEASURED

Rm @ BHT .21 @ 122F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 122F

Maximum Recorded Temperature 1523

Equipment Number 1523

Location HAYS, KANSAS

Recorded By GUS PFANENSTIEL

Witnessed By CLAYTON ERICKSON

<<< Fold Here >>>

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

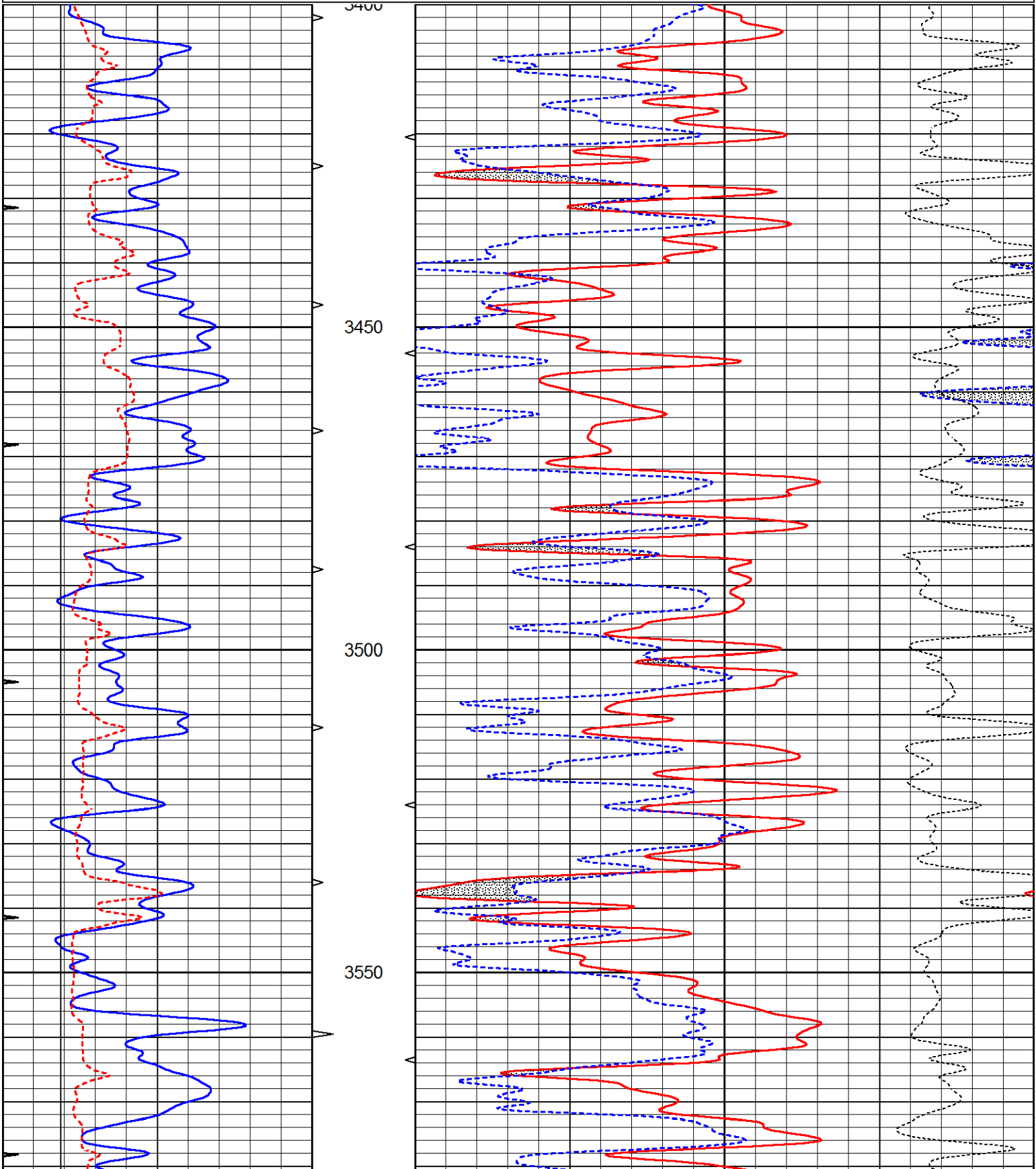
DIRECTIONS: MONUMENT SOUTH TO INDIAN RD., THEN 1/2 SOUTH, EAST INTO.

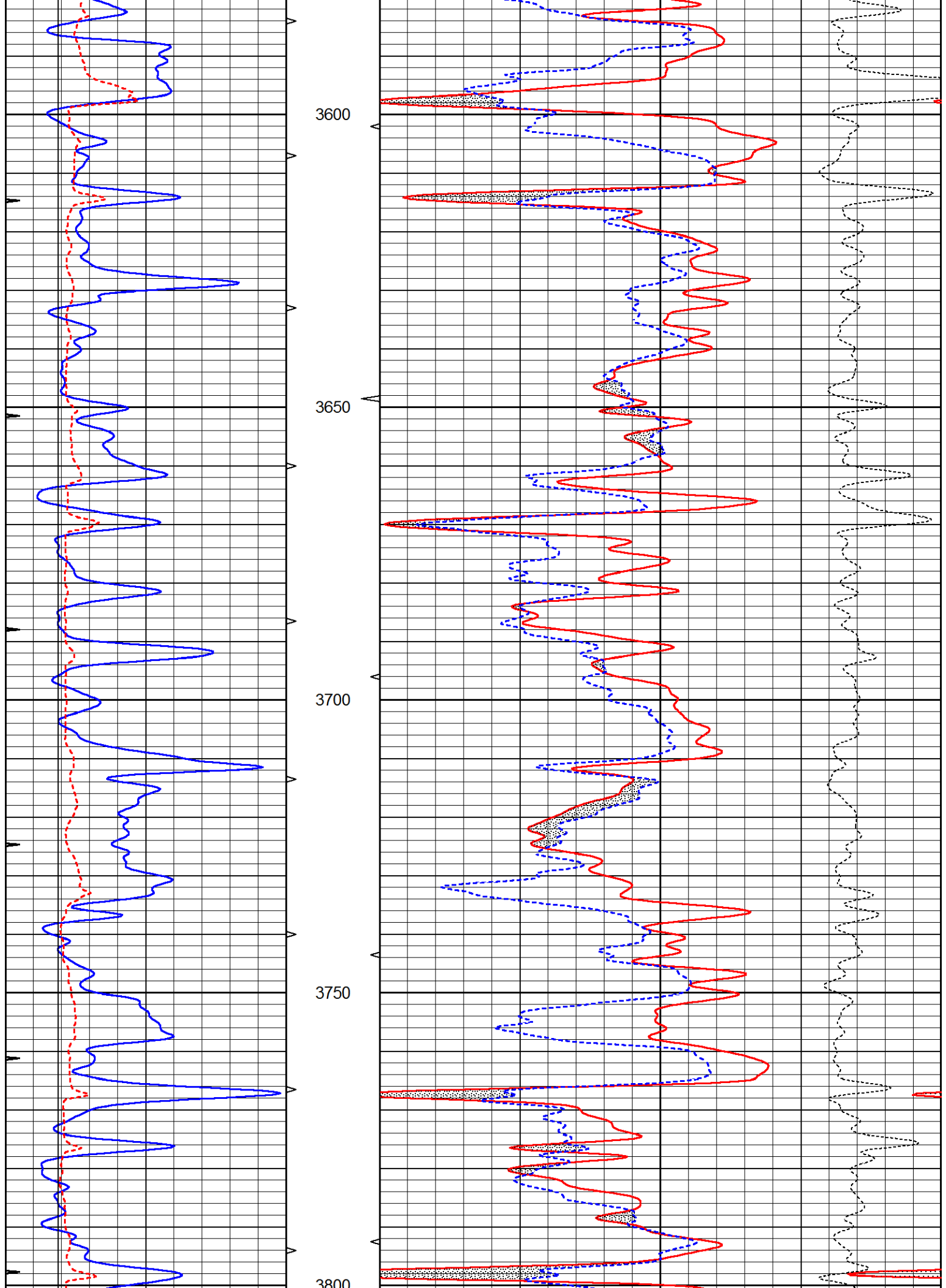


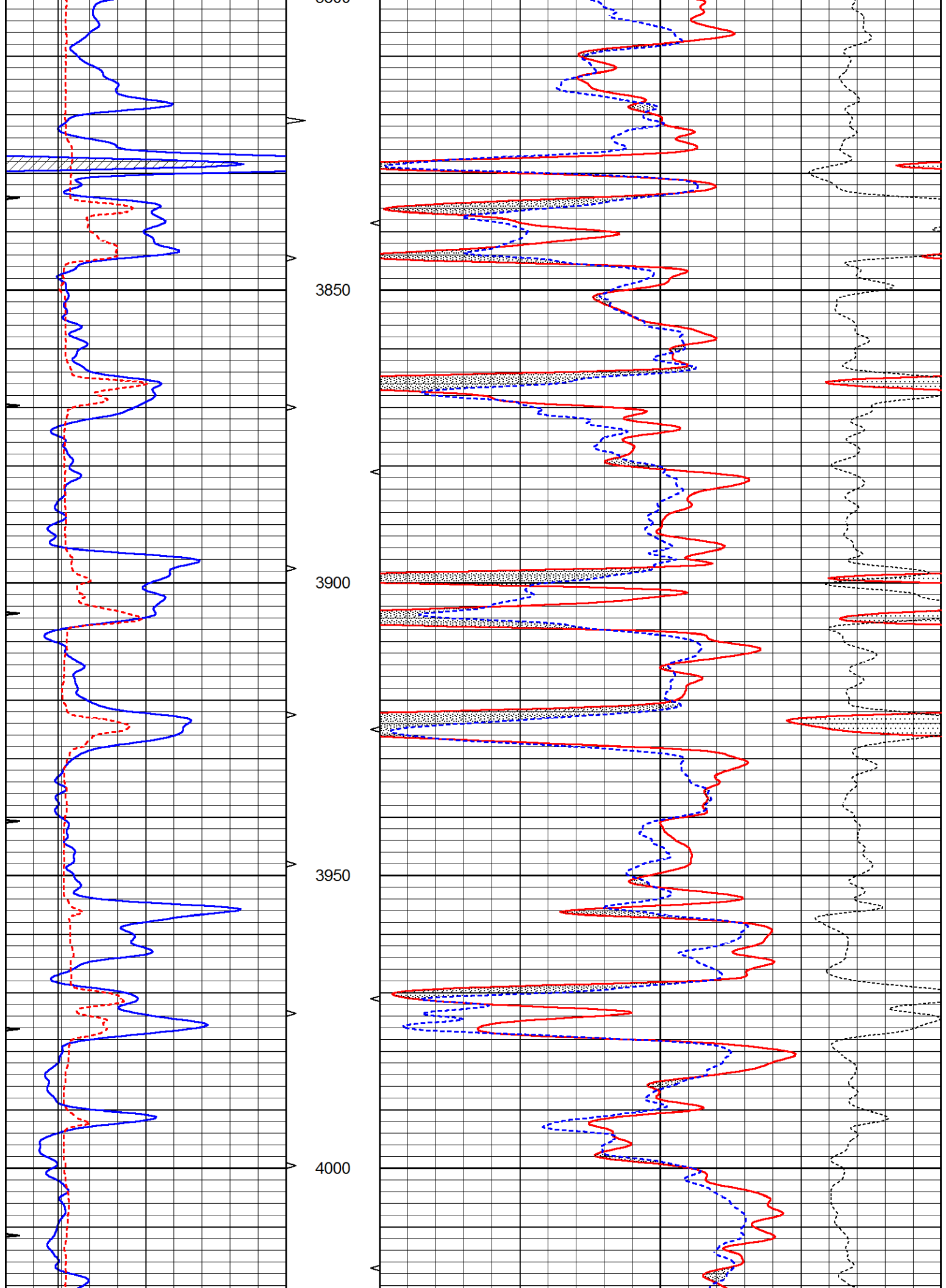
MAIN PASS

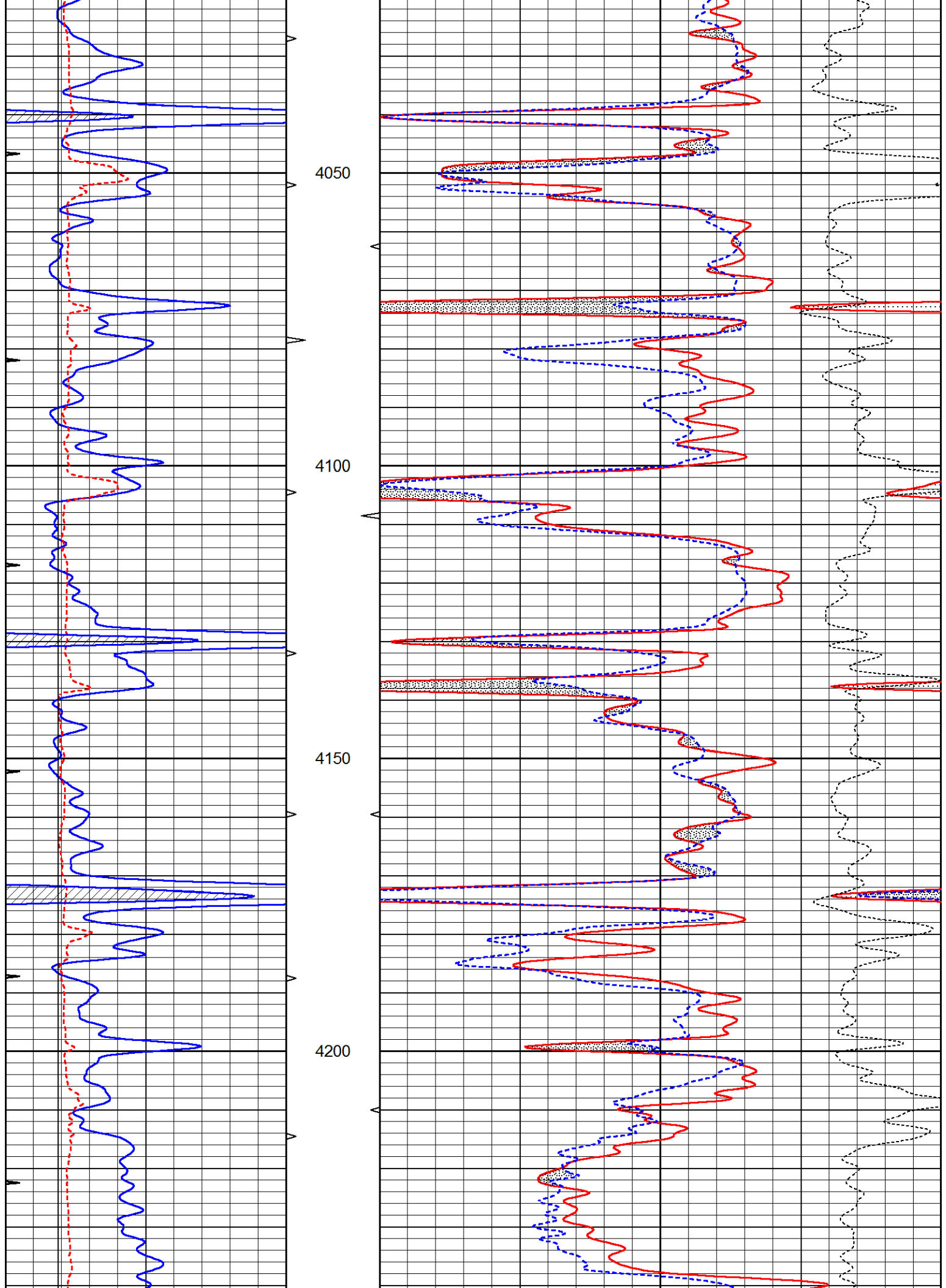
Database File	5880ddn.db
Dataset Pathname	pass4.1
Presentation Format	den_neu
Dataset Creation	Tue Oct 05 08:16:05 2021
Charted by	Depth in Feet scaled 1:240

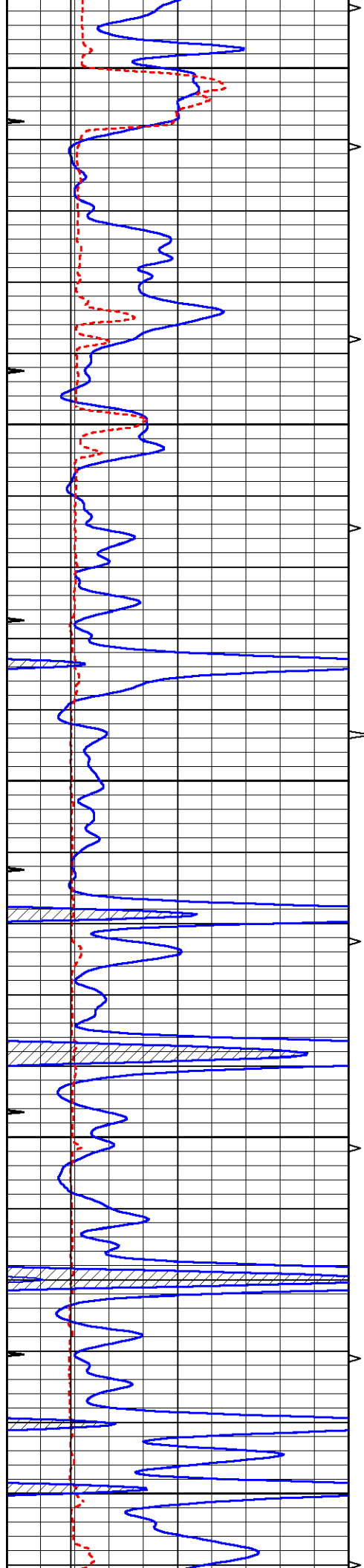
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)			-10
0	MINMK	20	TBHV			-0.25	CORRECTION (g/cc)	0.25	
			0 (ft3)	10					











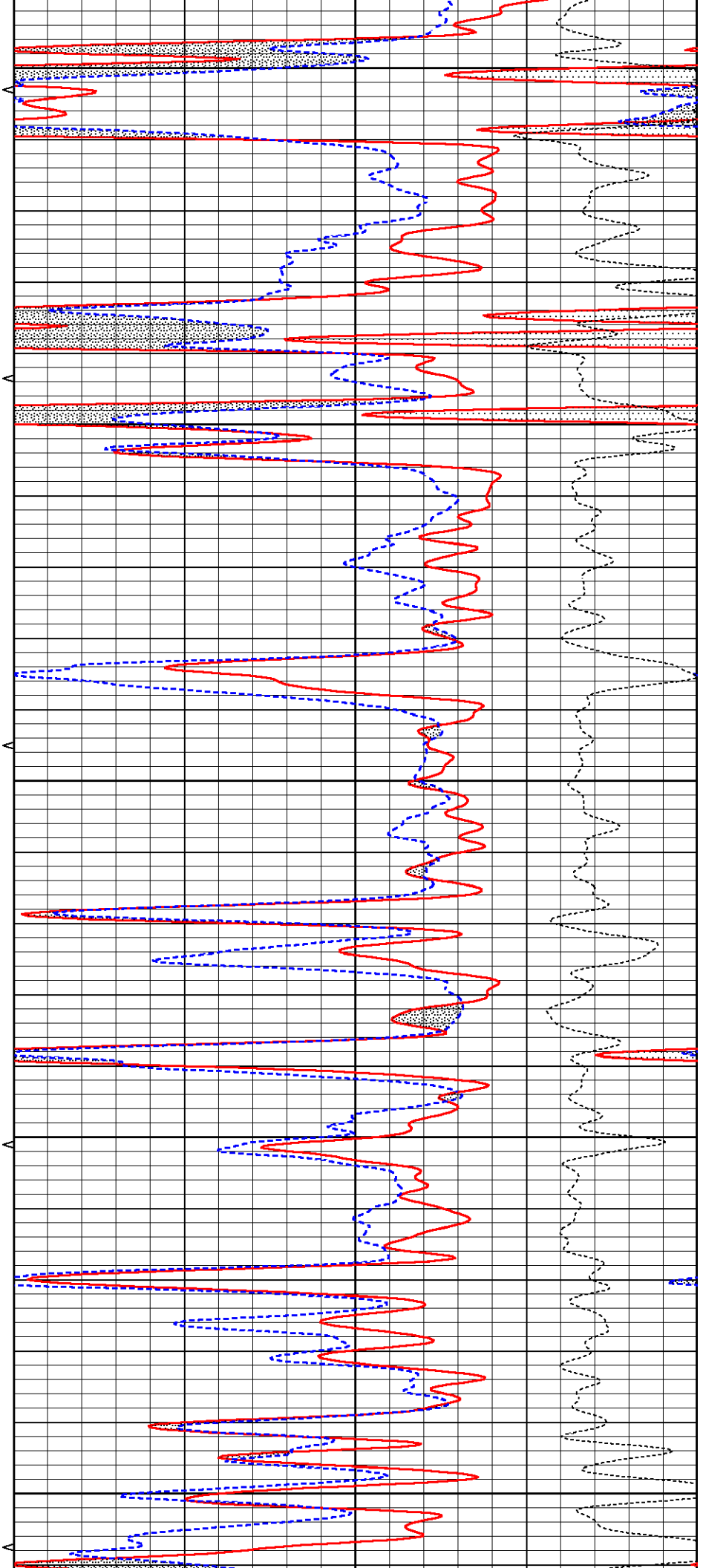
4250

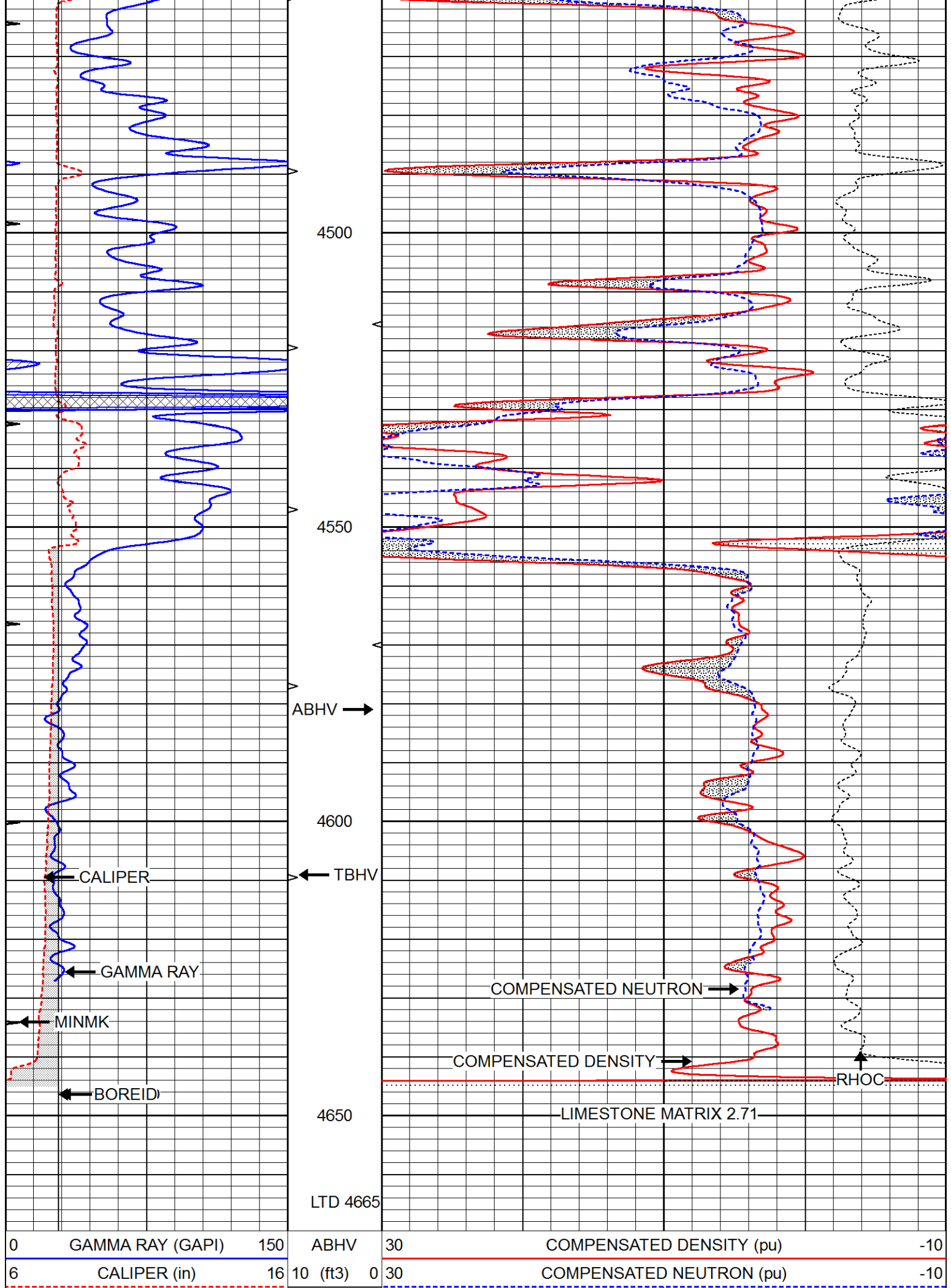
4300

4350

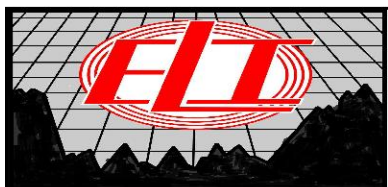
4400

4450





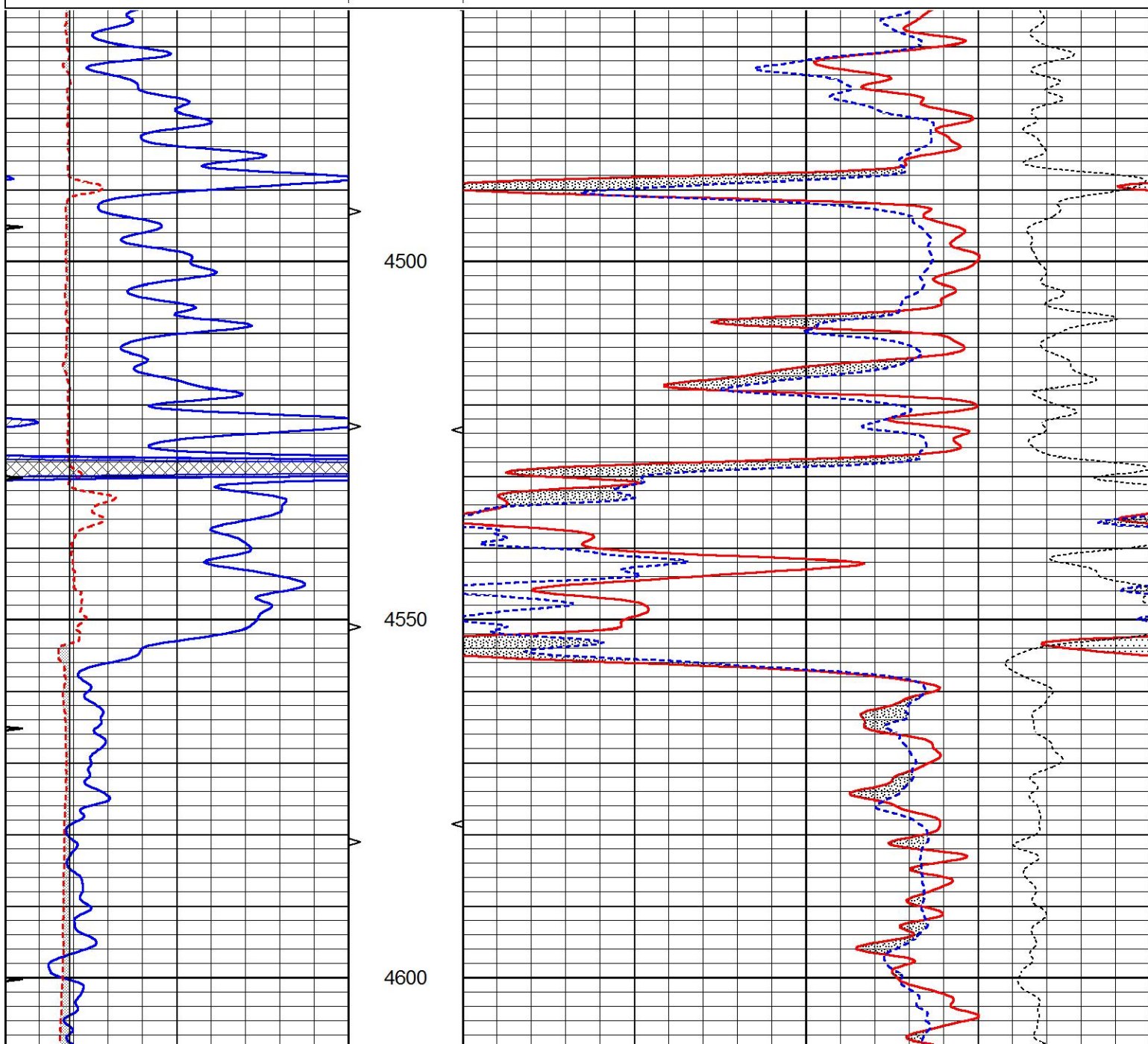
0	MINMK	20	TBHV	-0.25	CORRECTION (g/cc)	0.25
		0	(ft3) 10			

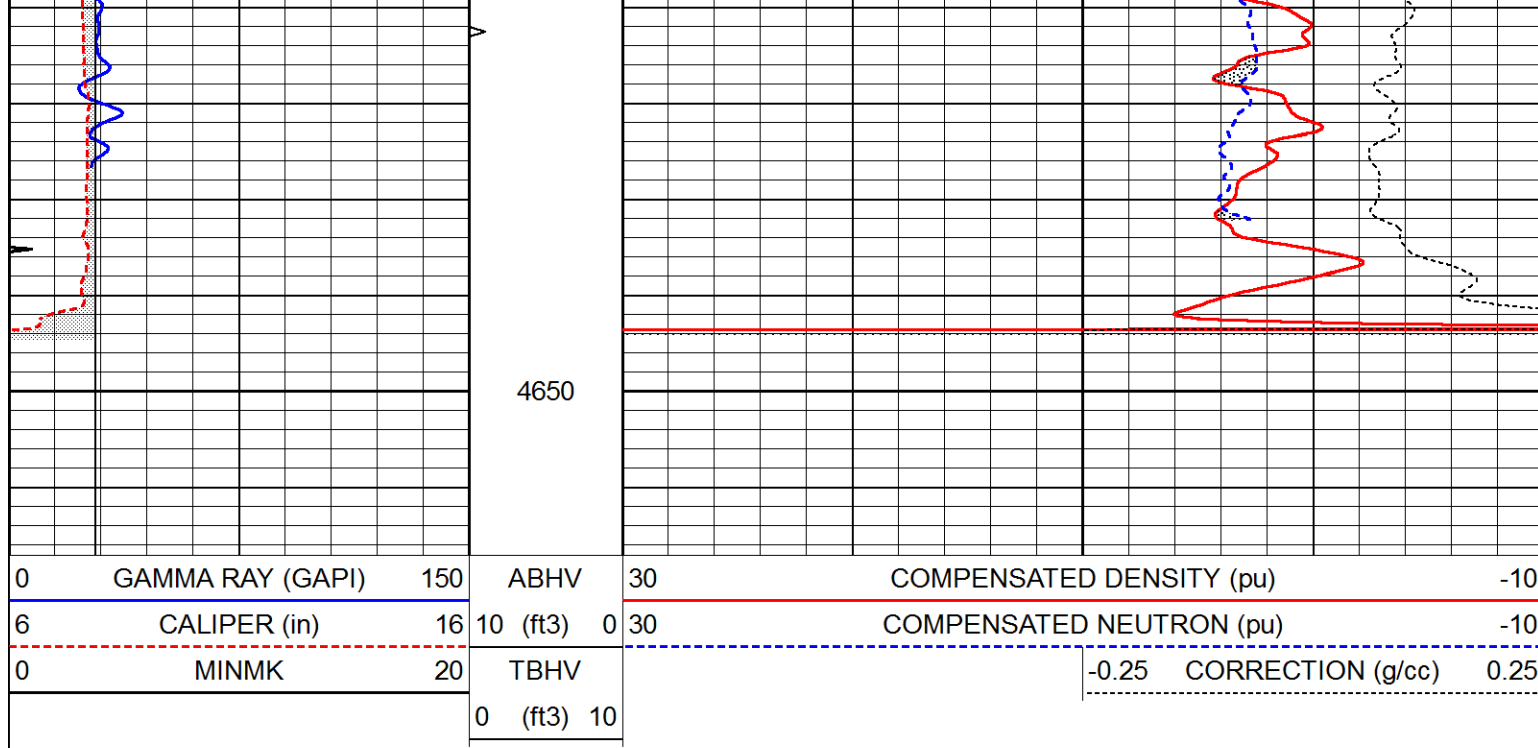


REPEAT SECTION

Database File 5880ddn.db
 Dataset Pathname pass3RP
 Presentation Format den_neu
 Dataset Creation Tue Oct 05 08:12:33 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		-0.25	CORRECTION (g/cc) 0.25
			0 (ft3) 10			





Calibration Report

Database File 5880ddn.db
Dataset Pathname pass3RP
Dataset Creation Tue Oct 05 08:12:33 2021

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
Surface Cal Performed: Fri Oct 01 14:24:33 2021
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	-15.000
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: 001N Model: PRB

Master Calibration			Performed Thu Mar 19 11:30:16 2020					
	Background		Magnesium		Aluminum		Aluminum+Fe	
Window 1	1572.2		7510.8		2837.3		2643.1	cps
Window 2	1446.2		6523.9		2552.8		2409.9	cps
Window 3	1060.9		3611.4		1731.5		1684.8	cps
Window 4	145.5		363.4		363.2		368.1	cps
Long Space	0.0		5077.7		1106.6		963.7	cps
Short Space	3.1		1709.3		1103.4		916.9	cps
Rho			1.7100		2.5900		0.0000	g/cc
Pe			2.0000		2.7500		5.7900	
Rib Angle	: 44.0		Rib Slope	: 0.965	Density/Spine Ratio		: 0.555	
Spine Angle	: 74.0		Spine Slope	: 3.481	Spine Intercept		: -17.4	

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:	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

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