

**COMPENSATED  
DENSITY/NEUTRON  
PE/LOG**

Company DARRAH OIL CO.,LLC.  
Well YOUNKIN #2-35  
Field WILDCAT  
County LOGAN  
State KANSAS

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County LOGAN State KANSAS

Location: 2225' FSL & 2223' FEL  
API #: 15-109-21621-0000  
Other Services  
DIL  
ML/SO  
Elevation  
SEC 35 TWP 13S RGE 34W  
Permanent Datum GROUND LEVEL Elevation 2802  
Log Measured From KELLY BUSHING 11' A.G.L.  
Drilling Measured From KELLY BUSHING  
K.B. 2813  
D.F. 2811  
G.L. 2802

Date	07/08/21
Run Number	ONE
Depth Driller	4530
Depth Logger	4527
Bottom Logged Interval	4507
Top Log Interval	3000
Casing Driller	8 5/8" @ 325
Casing Logger	325
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	NA
pH / Fluid Loss	NA
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.4 @ 80F
Rmf @ Meas. Temp	1.05 @ 80F
Rmc @ Meas. Temp	1.68 @ 80F
Source of Rmf / Rmc	MEASURED
Rm @ BHT	.93 @ 121F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	////
Maximum Recorded Temperature	121F
Equipment Number	1523
Location	HAYS, KANSAS
Recorded By	GUS PFANENSTIEL
Witnessed By	SETH EVENSON

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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

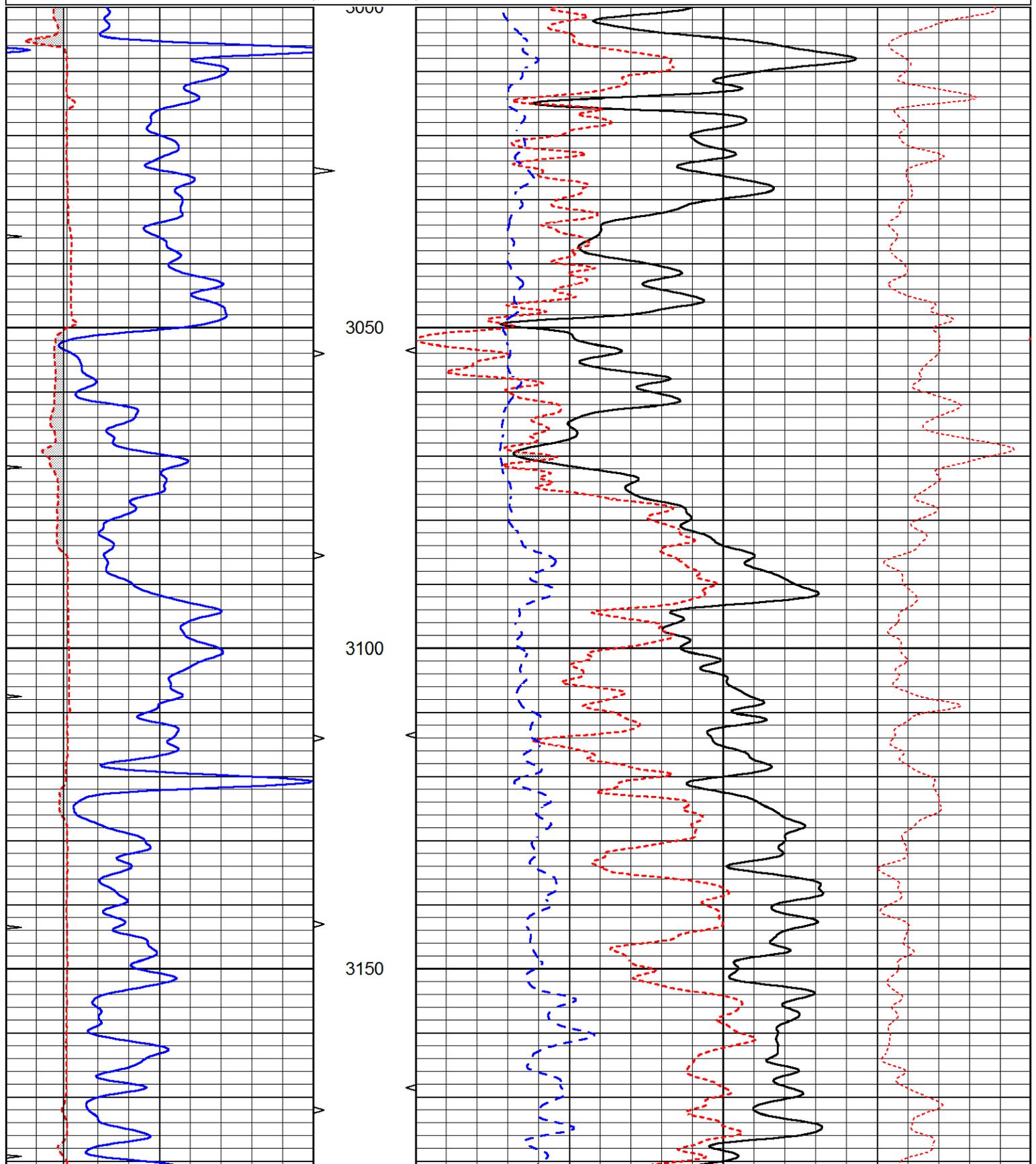
DIRECTIONS: OAKLEY KS SOUTH TO QUAIL RD, 7W TO RD 370, 1S TO PLAINS RD, 2W TO 350, 4S TO LARIAT RD, 1W THROUGH RED CATTLE GUARD, 2 MILES NW IN PASTURE

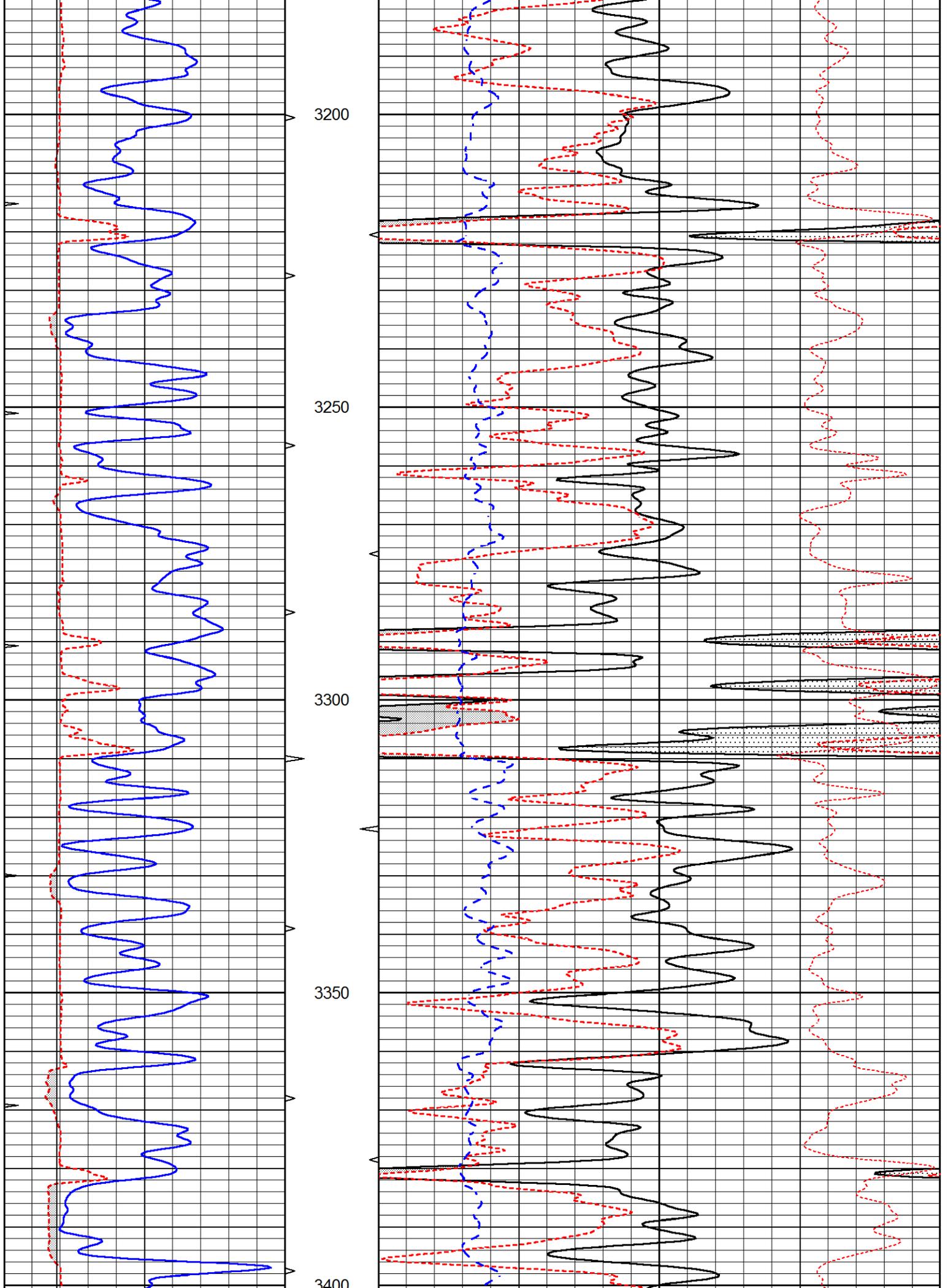


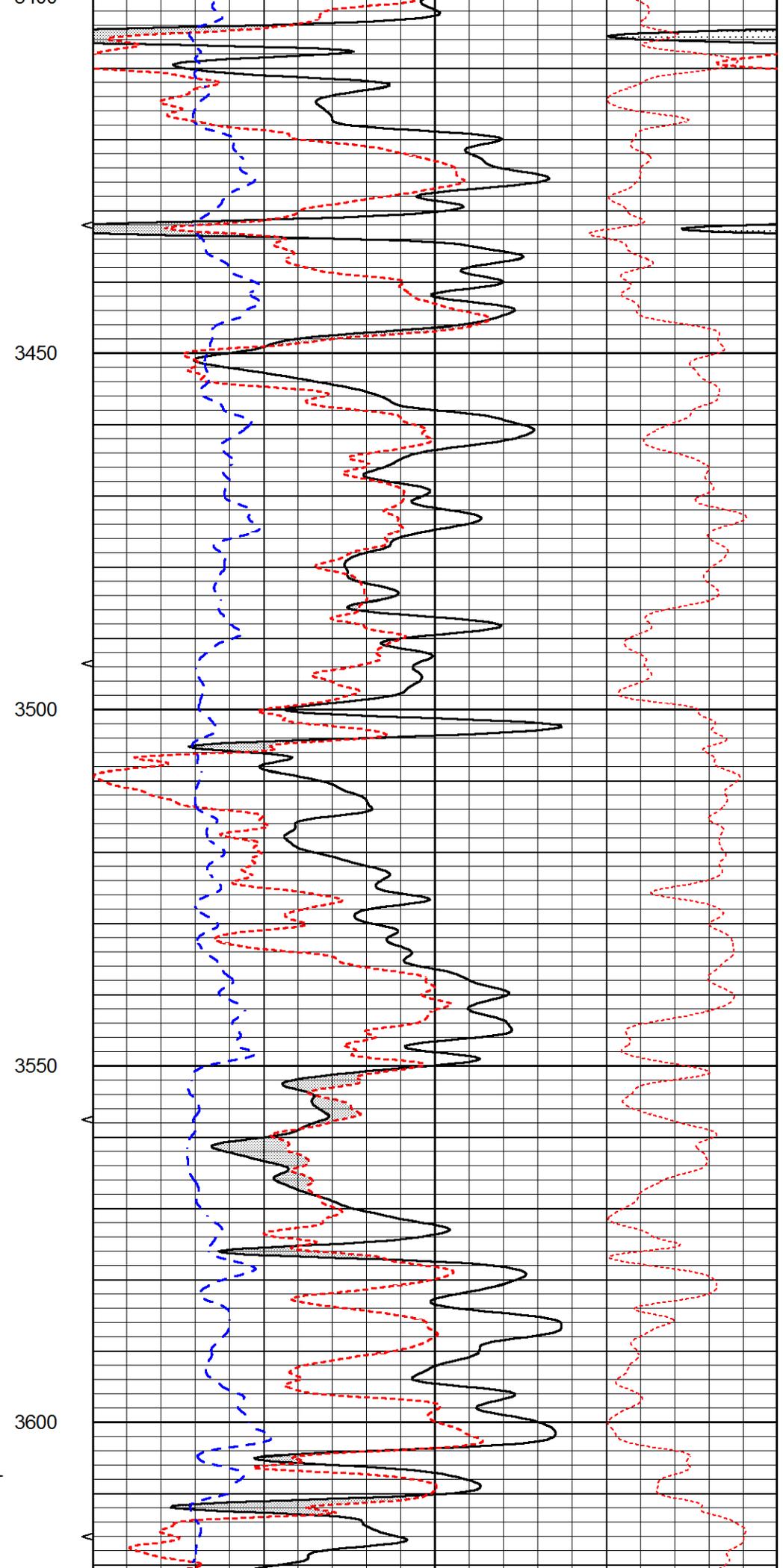
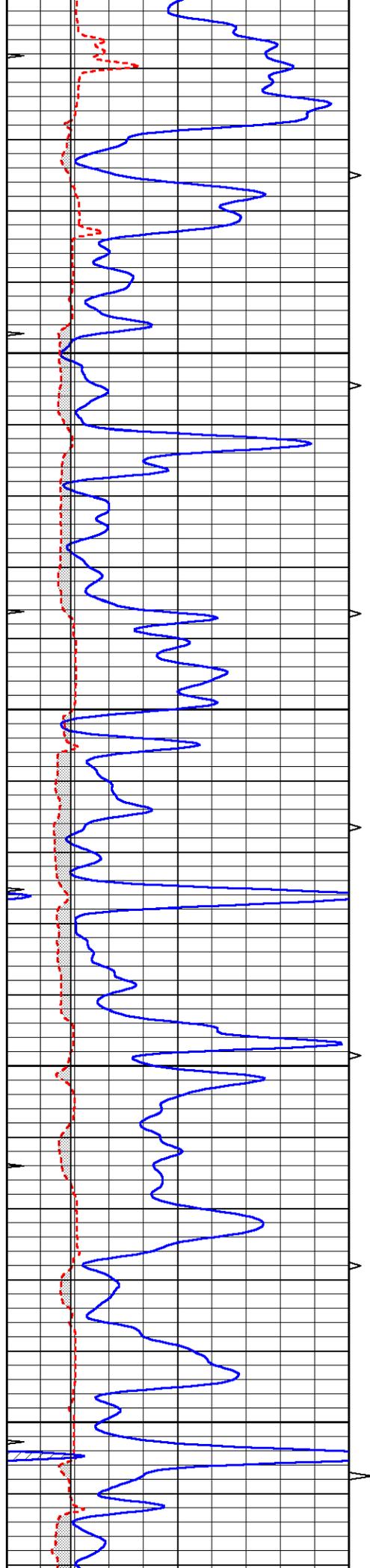
**MAIN PASS**

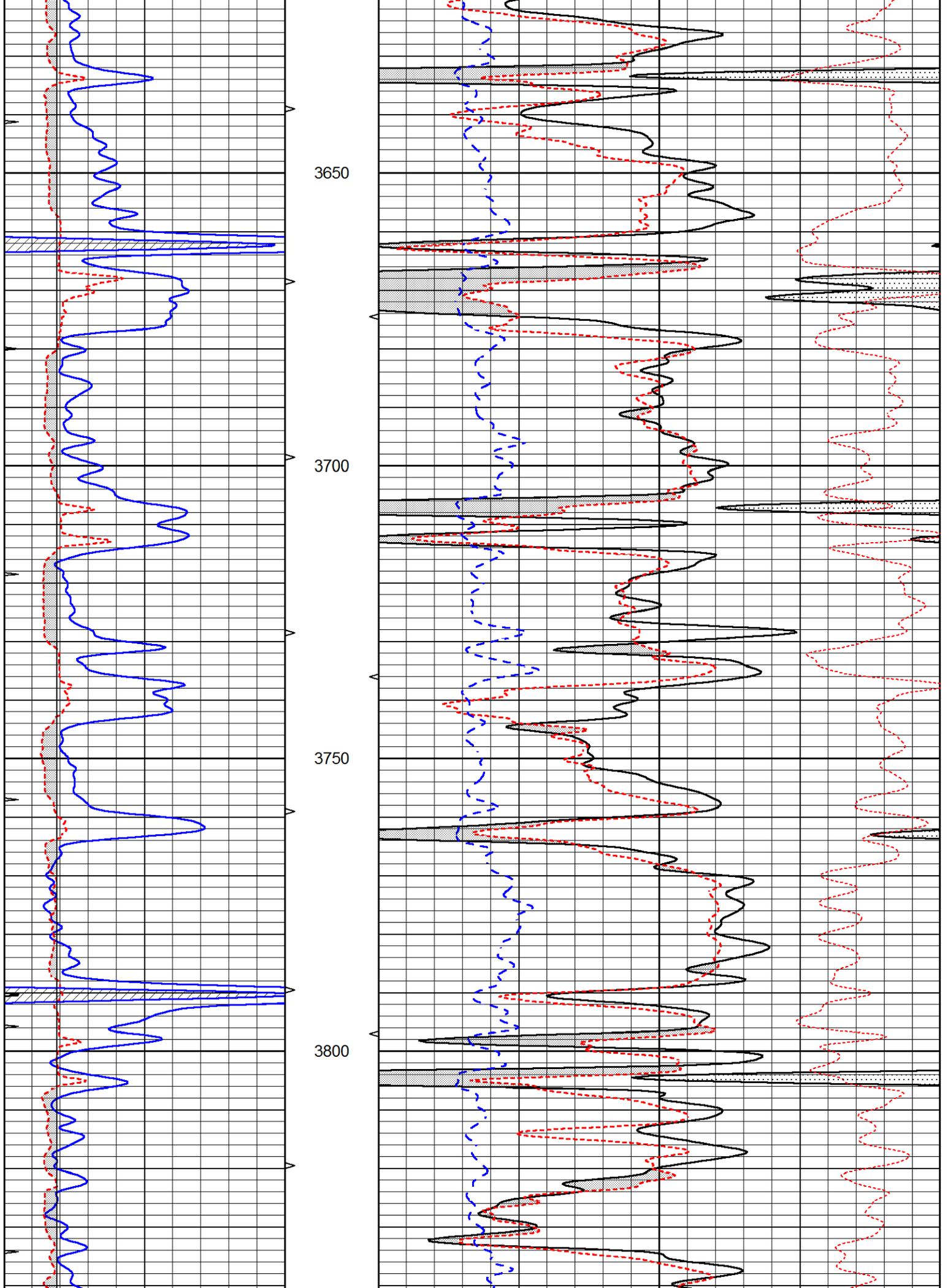
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 Presentation Format \_ldt\_neu  
 Dataset Creation Thu Jul 08 07:14:48 2021  
 Charted by Depth in Feet scaled 1:240

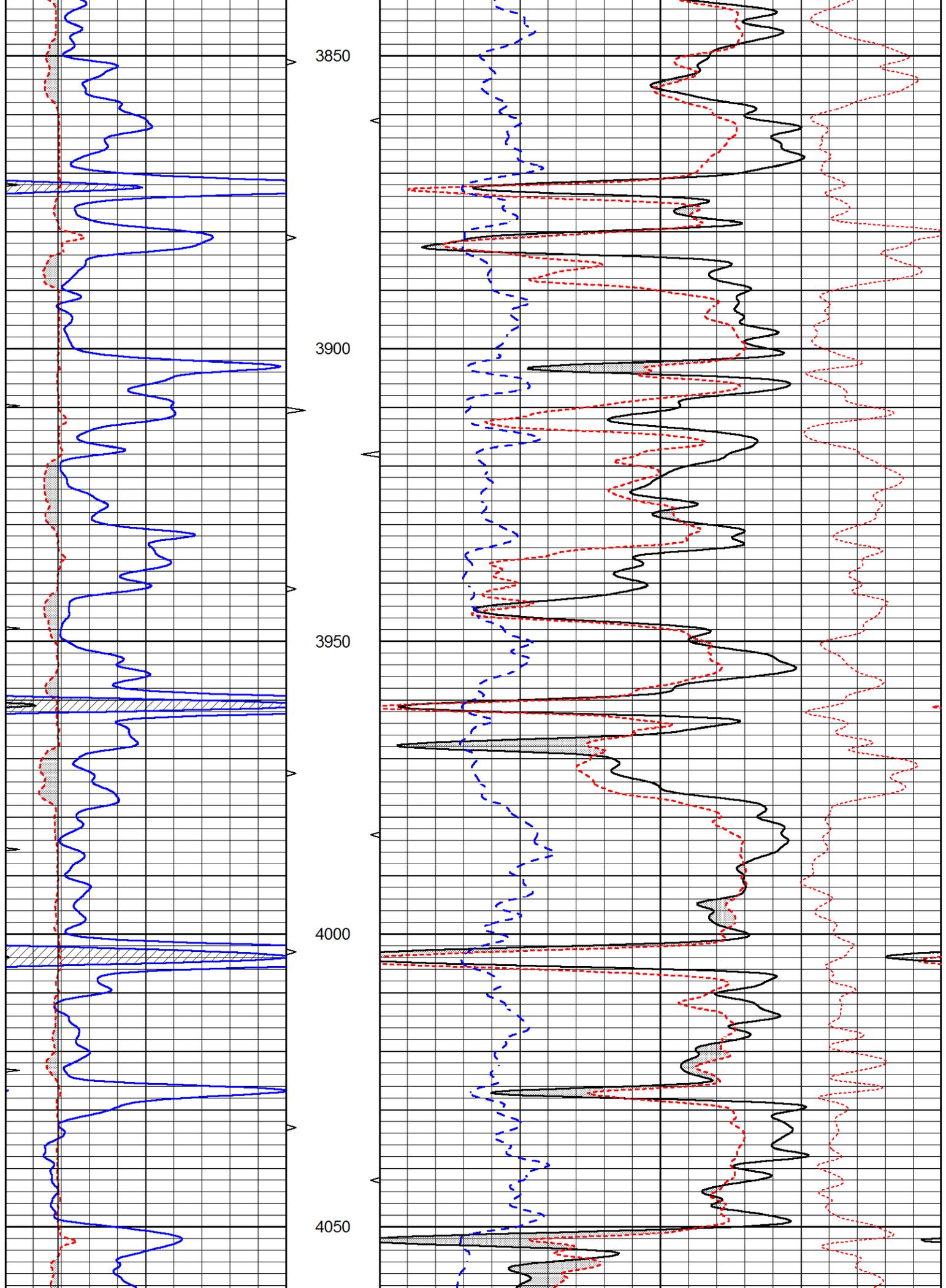
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)		-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)		-10
0	MINMK	20	TBHV	0	PE	10	-0.25
			0 (ft3)	10	CORRECTION (g/cc)		0.25

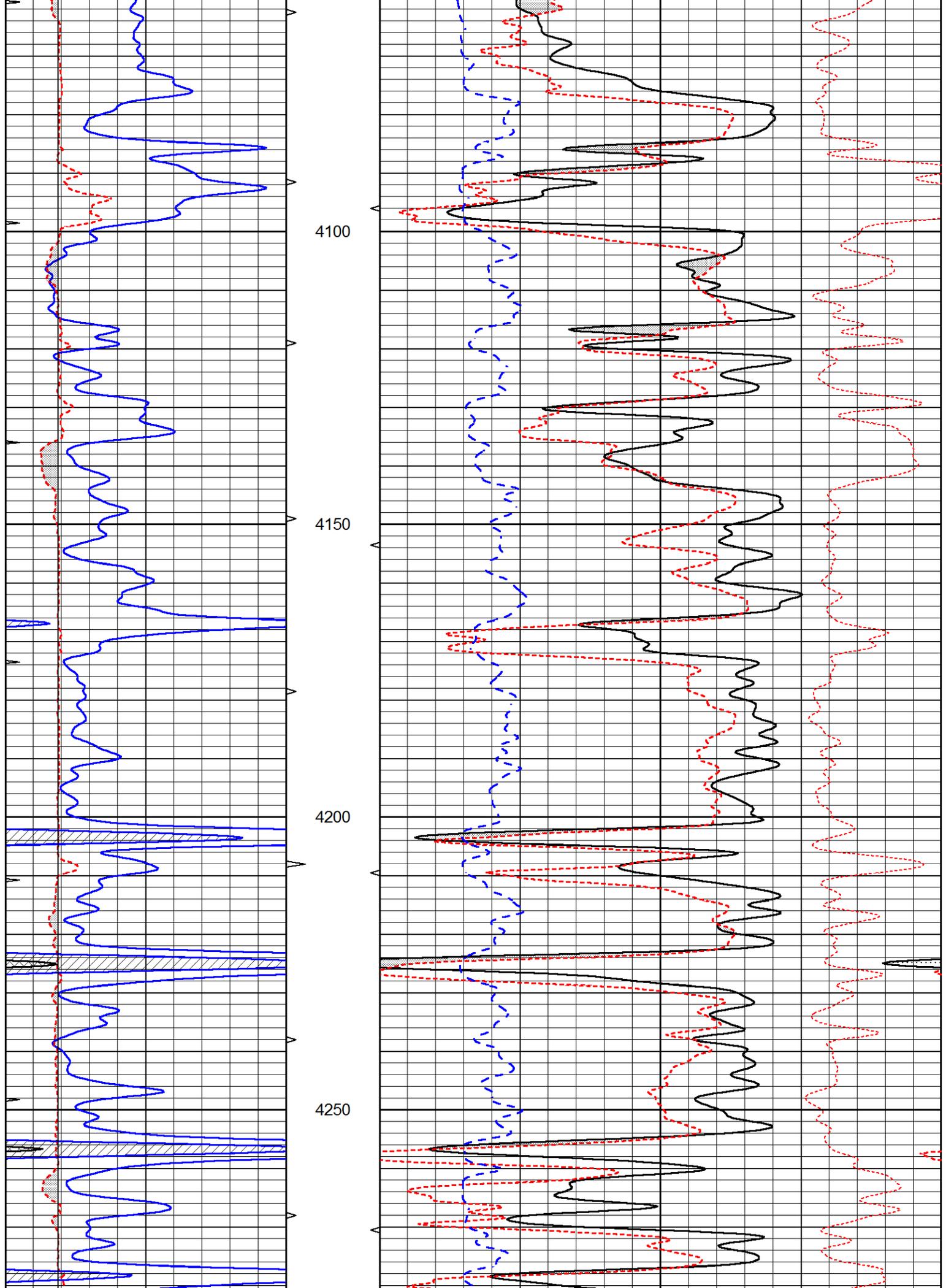


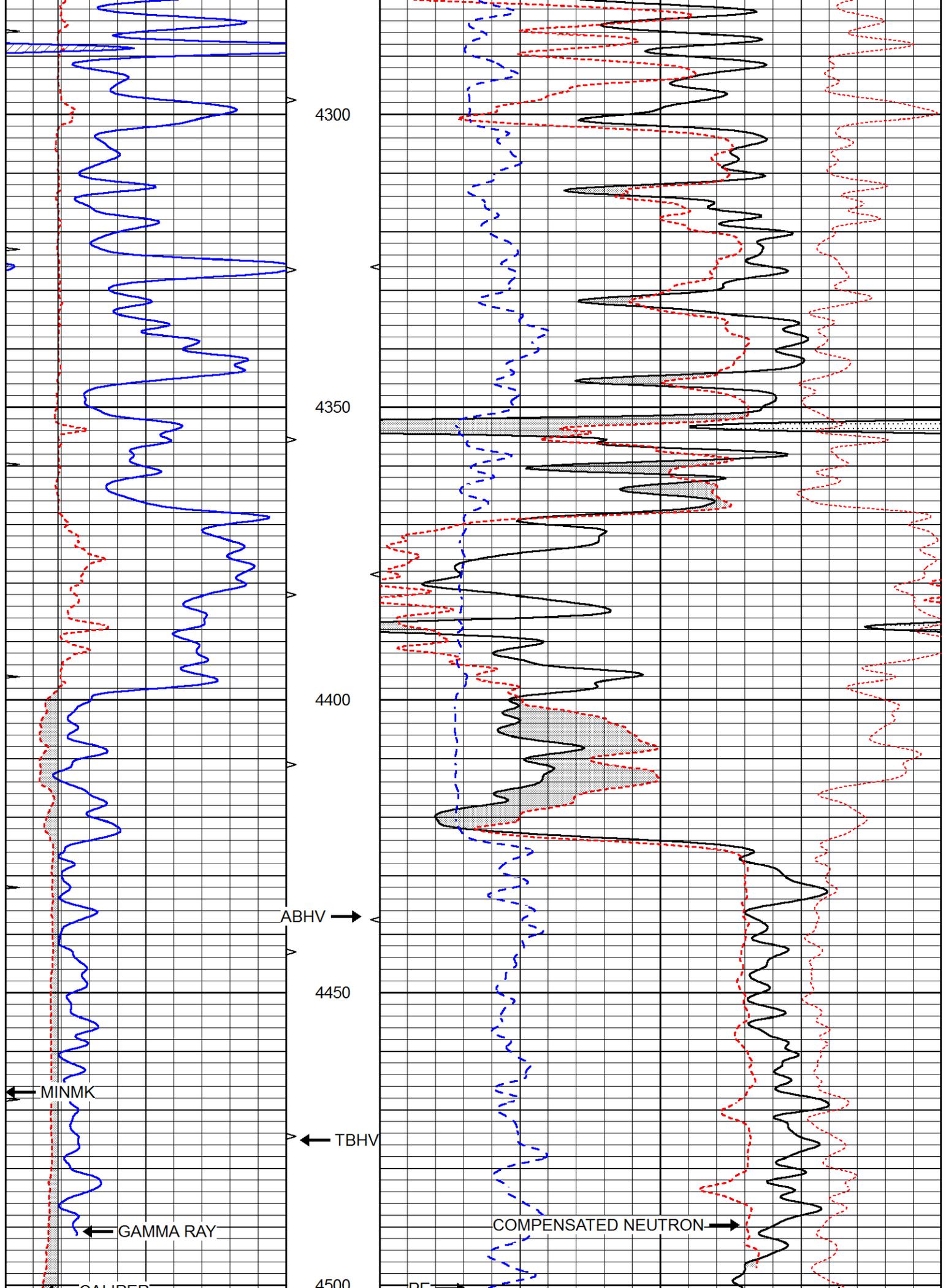


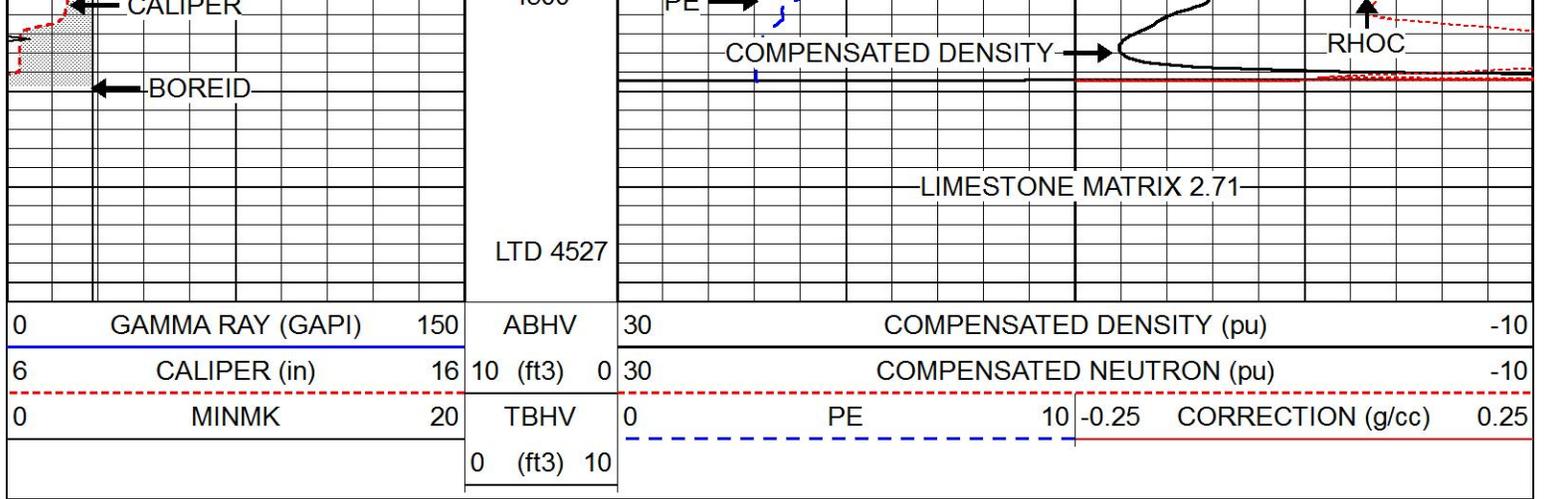








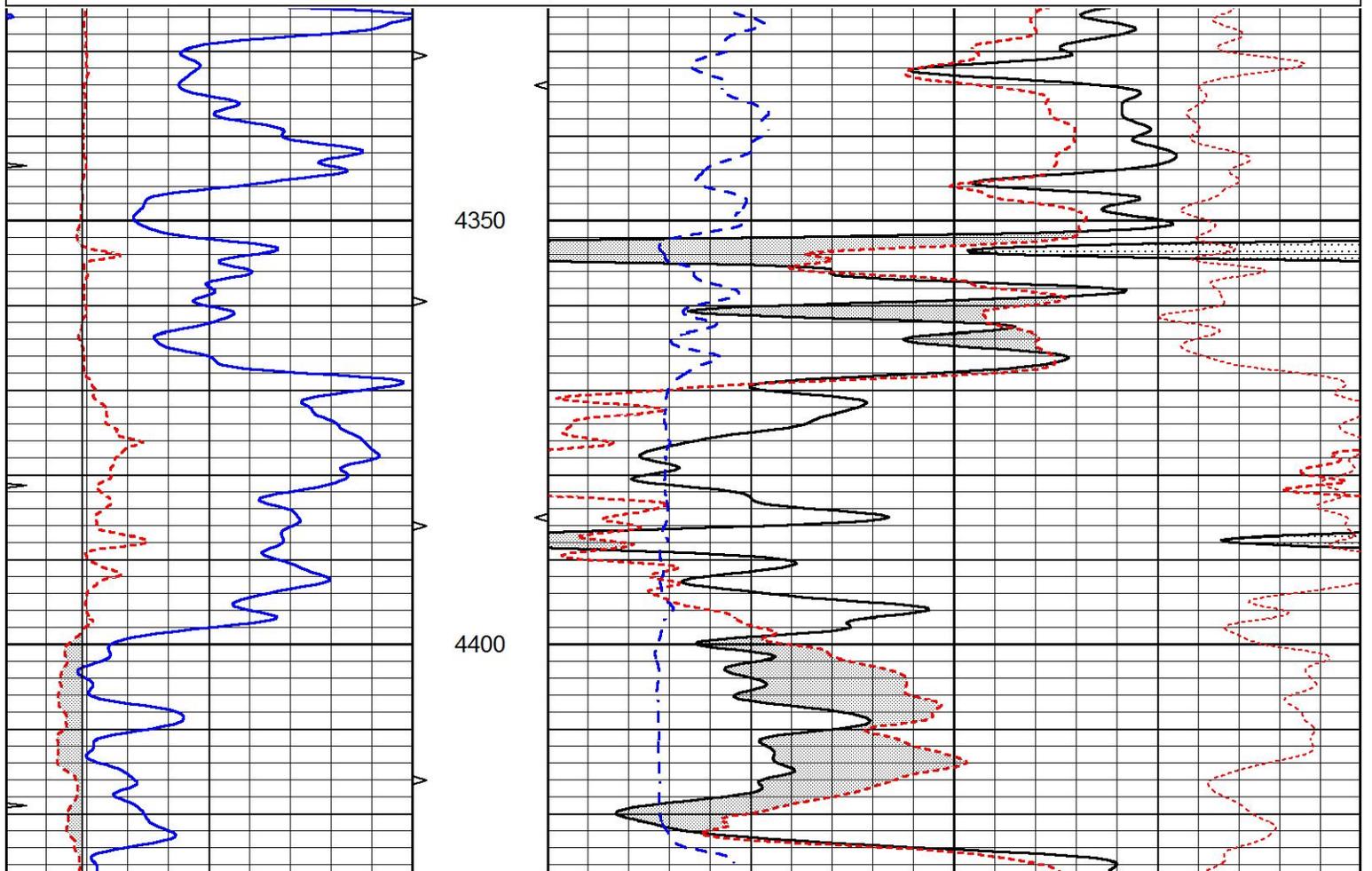


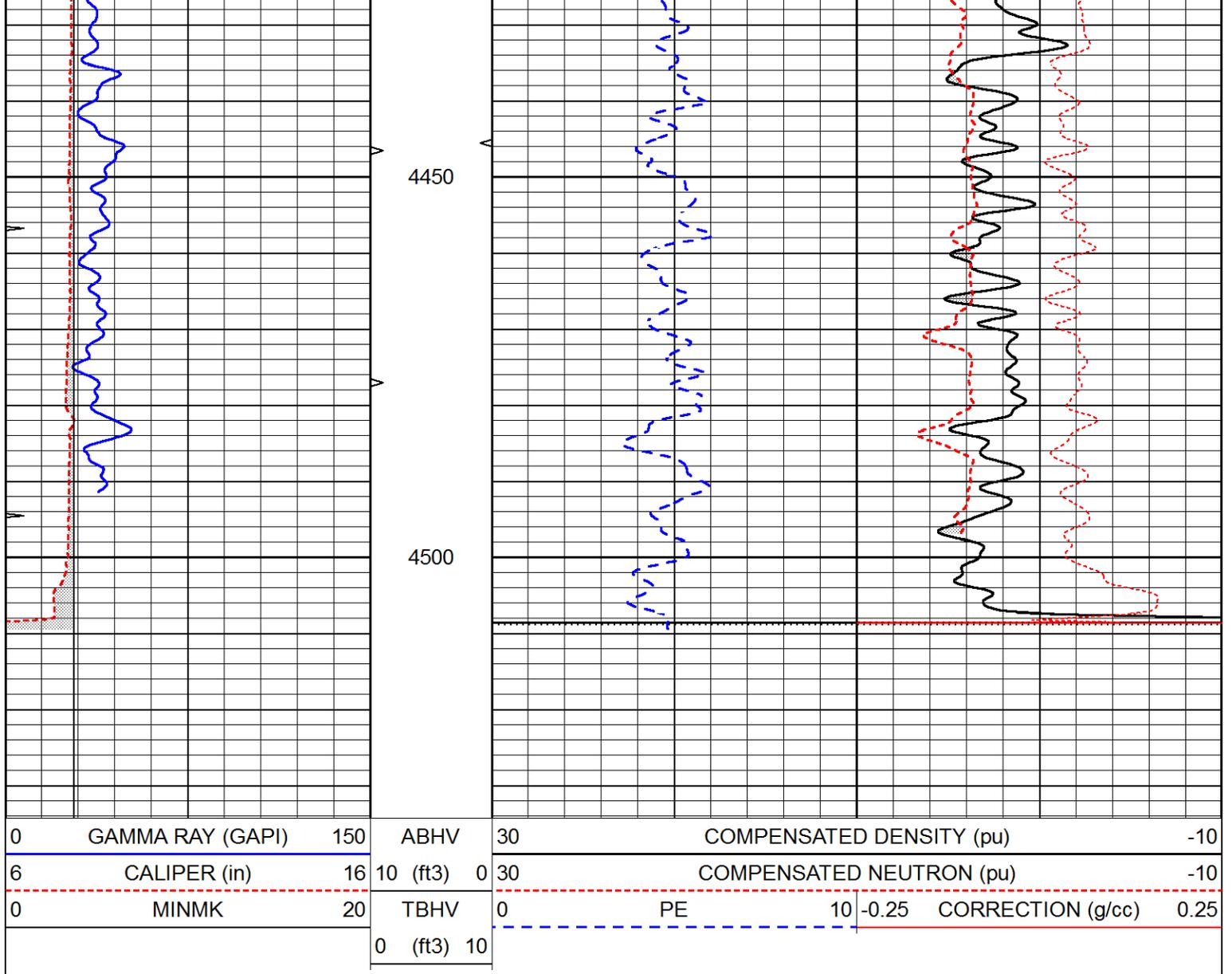


# REPEAT SECTION

Database File 5450pe.db  
 Dataset Pathname pass2RP.1  
 Presentation Format \_ldt\_neu  
 Dataset Creation Thu Jul 08 08:21:32 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 5450pe.db  
 Dataset Pathname pass2RP.1  
 Dataset Creation Thu Jul 08 08:21:32 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

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

	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					
	Background	Magnesium	Aluminum	Aluminum+Fe			
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					
	Background	Magnesium	Aluminum	Aluminum+Fe			
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

	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: 0.8000 GAPI/cps