



**COMPENSATED
DENSITY/NEUTRON
LOG**

Company MAI OIL OPERATIONS, INC.
Well S & S UNIT #1
Field KRAFT - PRUSA
County RUSSELL
State KANSAS

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County RUSSELL State KANSAS

Location: API #: 15-167-24123-0000
2507' FNL & 618' FEL
SW - SW - SE - NE
SEC 36 TWP 15S RGE 12W
Permanent Datum GROUND LEVEL Elevation 1836
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
DILMEL
SONIC
Elevation
K.B. 1846
D.F. 1844
G.L. 1836

Date	6/20/22
Run Number	ONE
Depth Driller	3420
Depth Logger	3421
Bottom Logged Interval	3397
Top Log Interval	2200
Casing Driller	8 5/8" @ 721'
Casing Logger	721
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.4/54
pH / Fluid Loss	10.0/5.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.750 @ 91F
Rmf @ Meas. Temp	.563 @ 91F
Rmc @ Meas. Temp	.900 @ 91F
Source of Rmf / Rmc	MEASURED
Rm @ BHT	.615 @ 111F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	7.45 P.M.
Maximum Recorded Temperature	111F
Equipment Number	8916
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	JIM MUSGROVE

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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

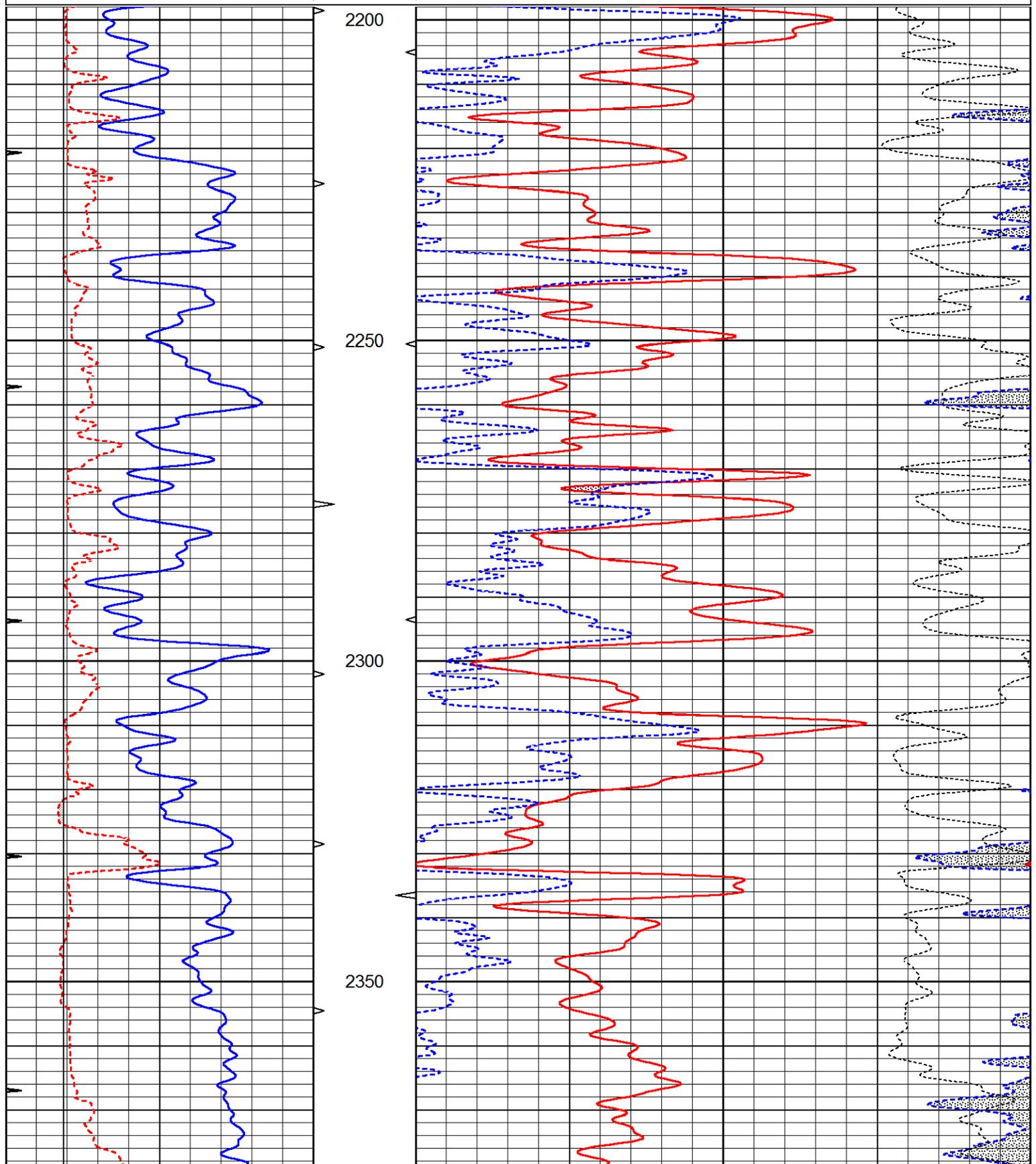
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395
DIRECTIONS:
DUBUQUE, KS., 1/2 W. TO "198TH", 1N., 1/2E., S. INTO @ ORANGE GATE

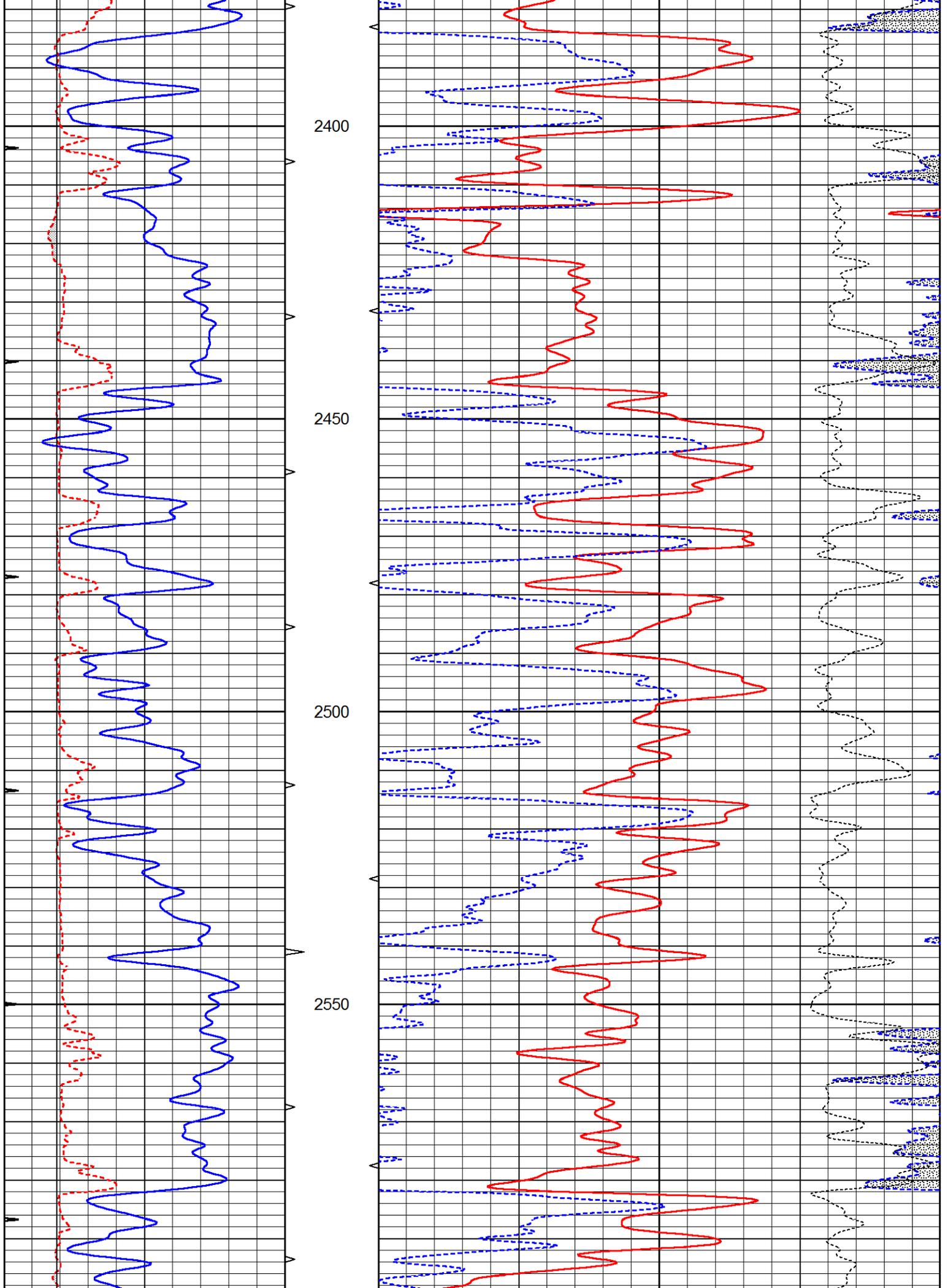


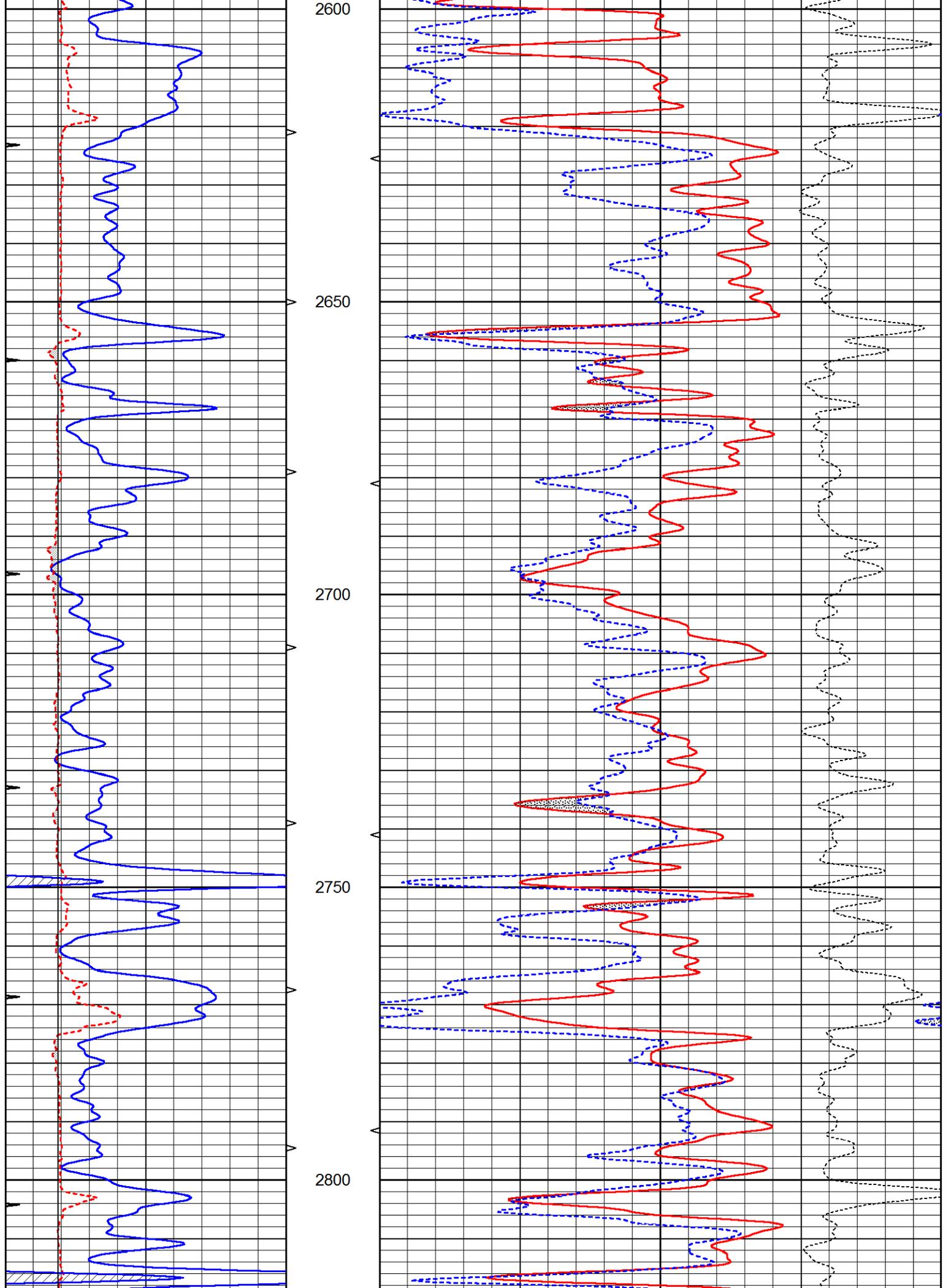
MAIN SECTION

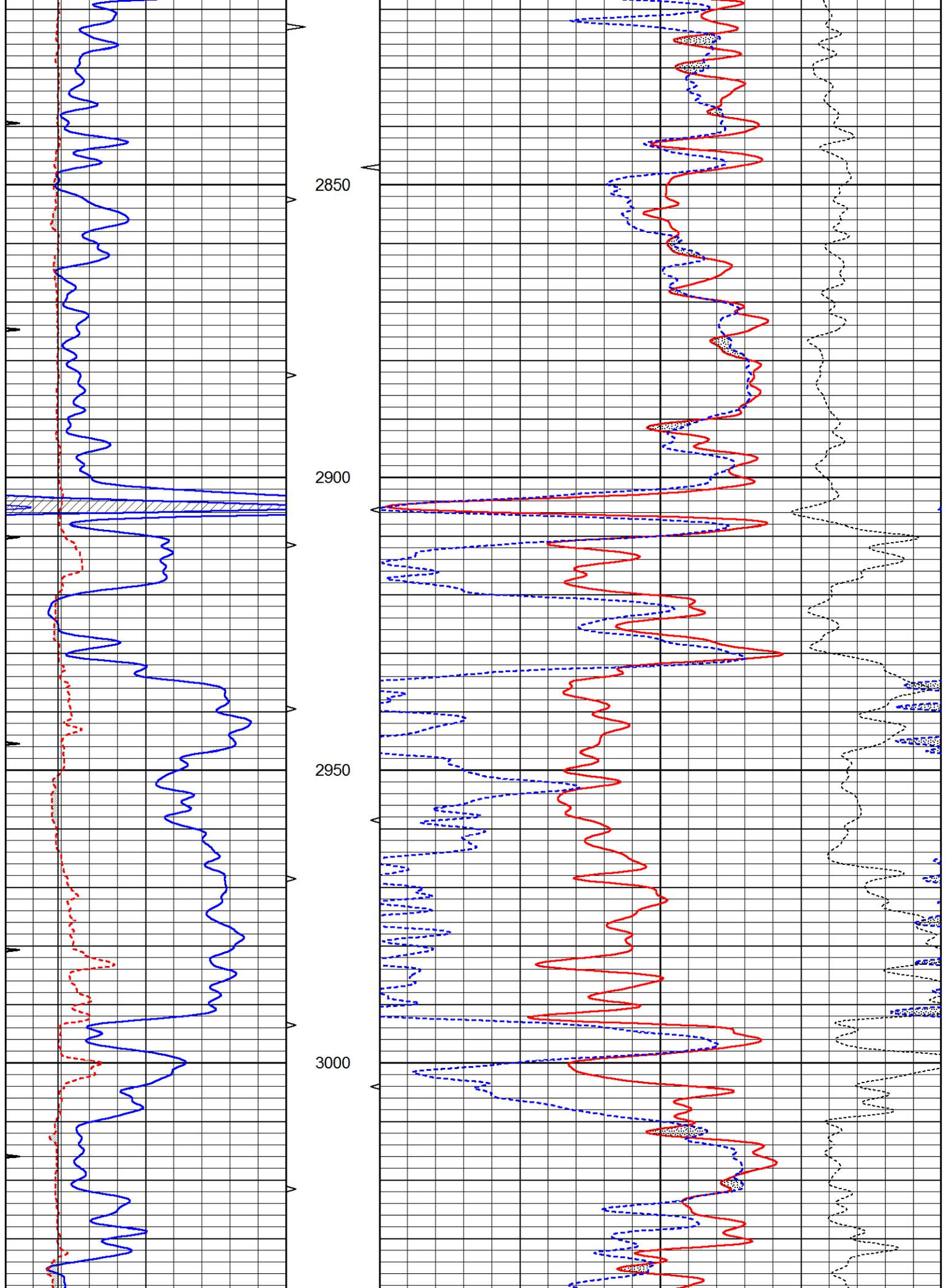
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 Dataset Pathname pass3.1M
 Presentation Format den_neu
 Dataset Creation Mon Jun 20 21:18:36 2022
 Charted by Depth in Feet scaled 1:240

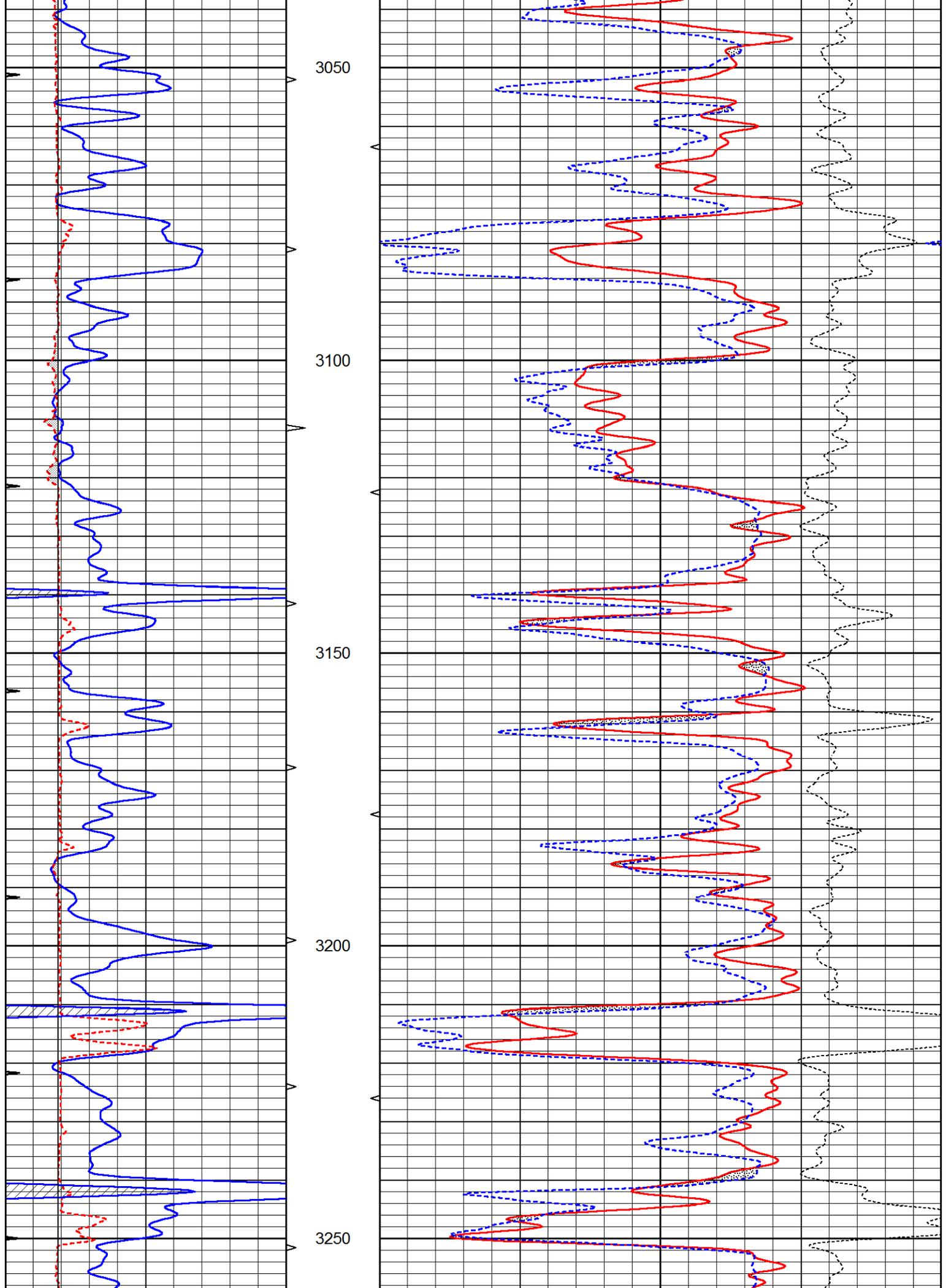
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10			

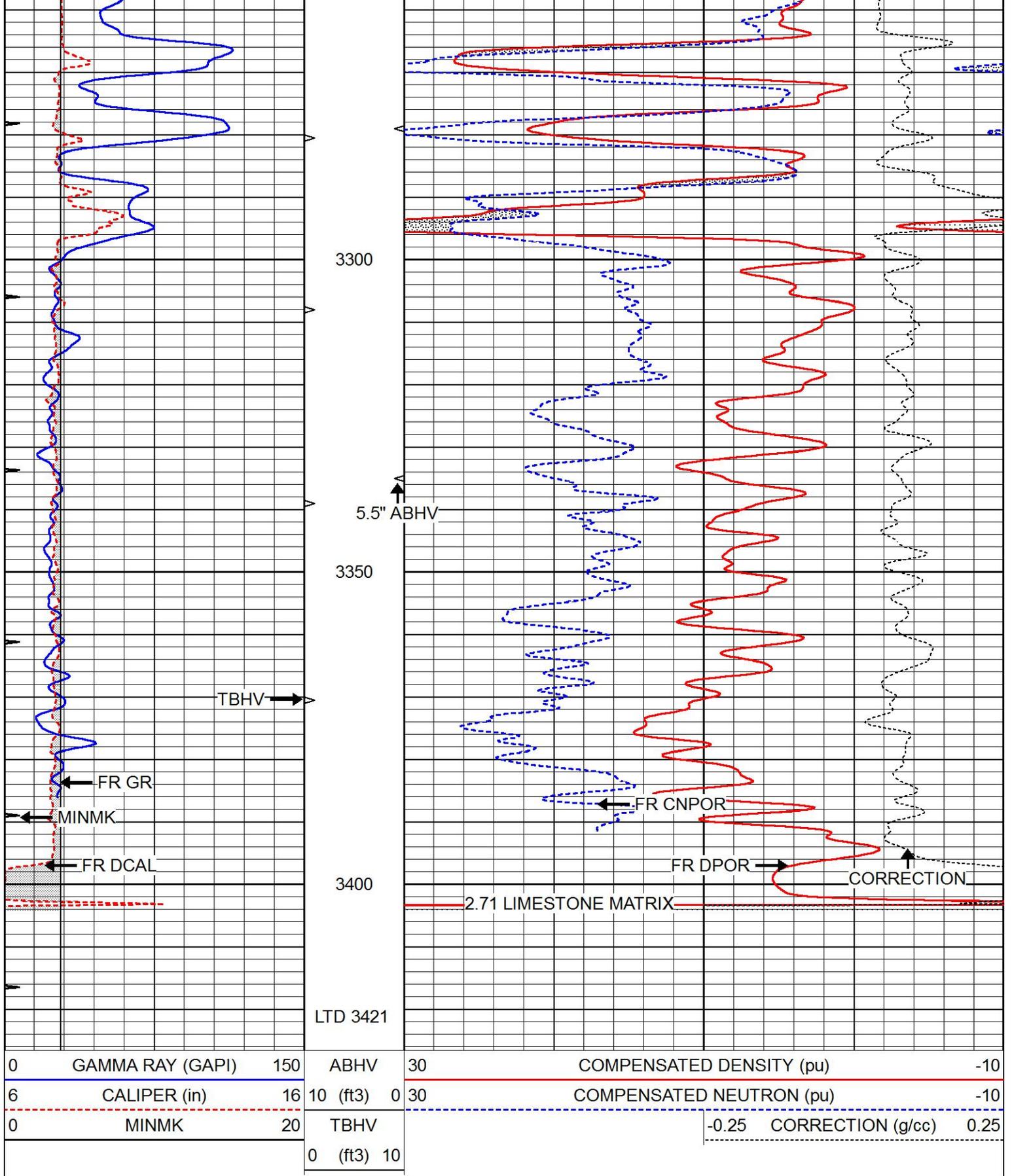








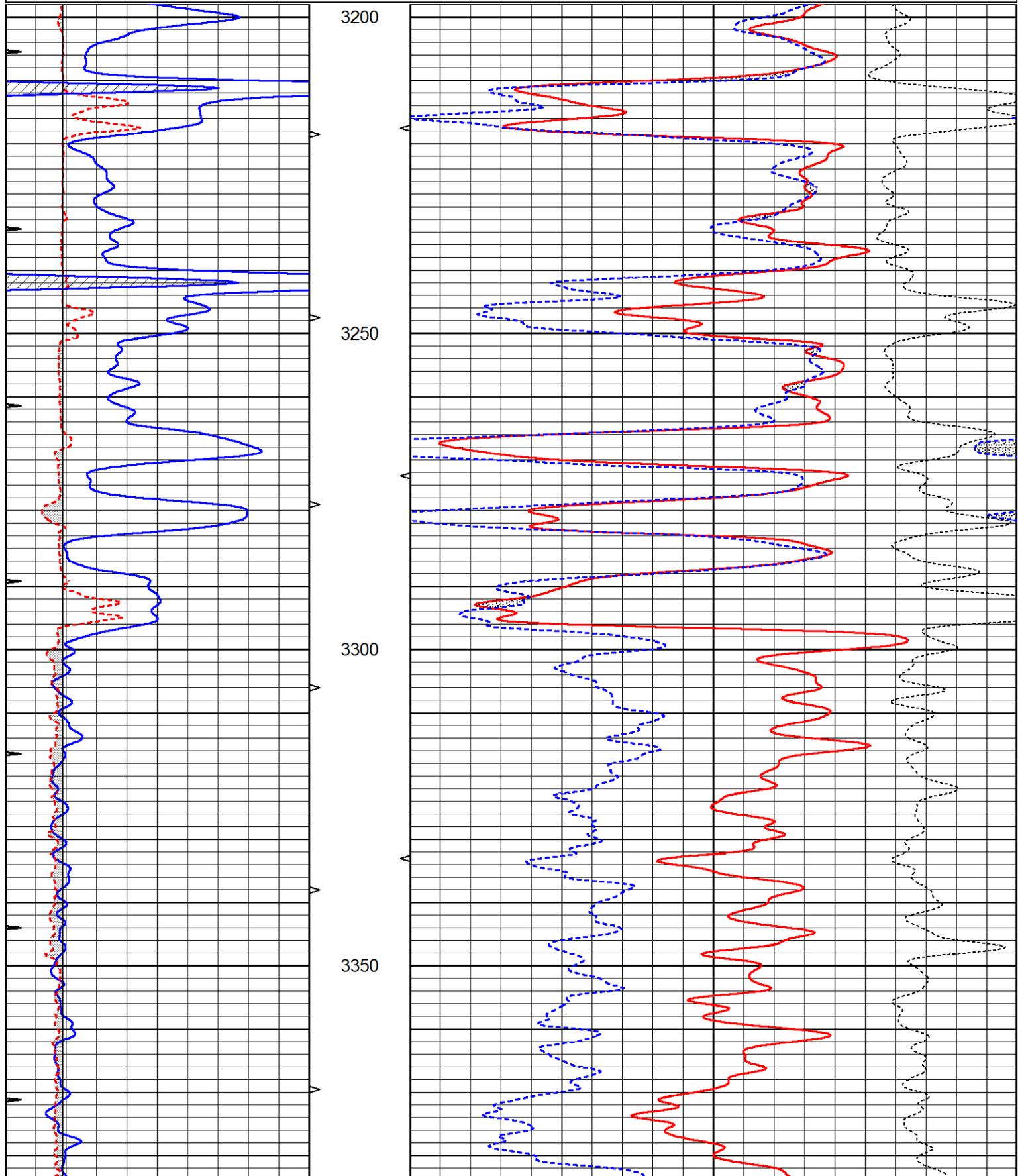


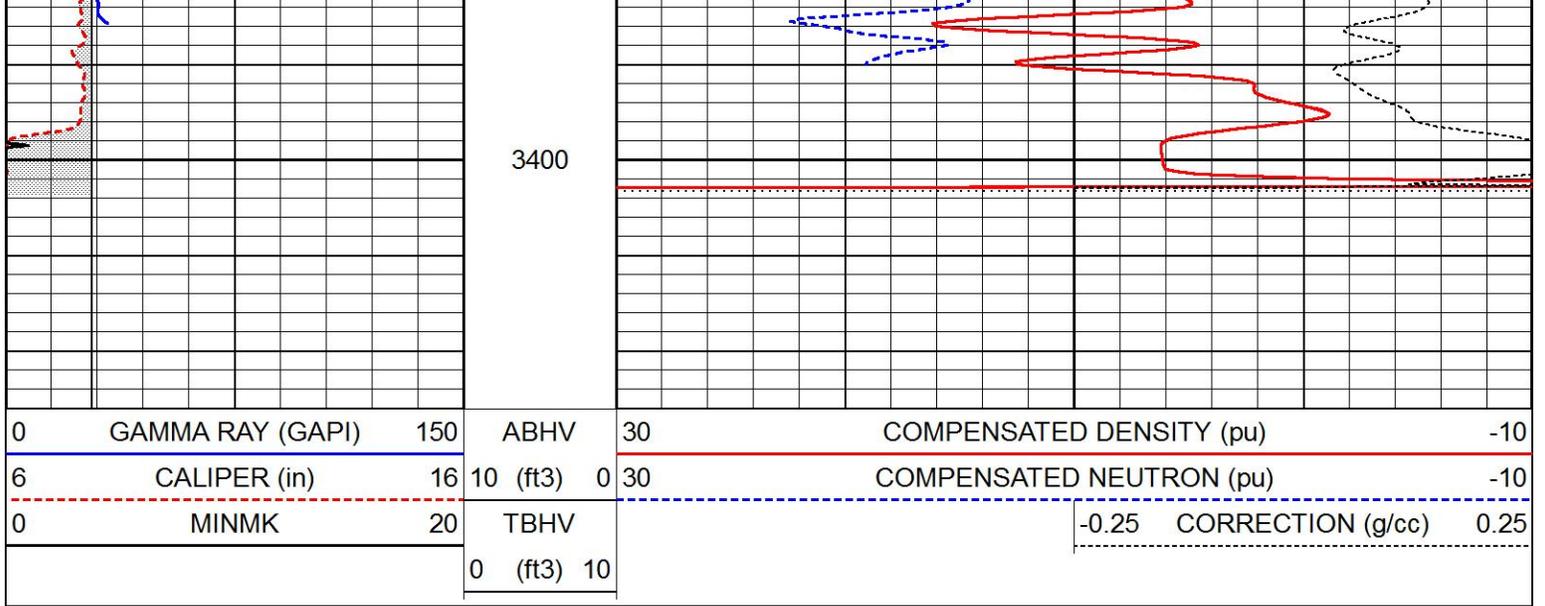


REPEAT SECTION

Dataset Pathname: pass2.2R
 Presentation Format: den_neu
 Dataset Creation: Mon Jun 20 20:25:52 2022
 Charted by: Depth in Feet scaled 1:240

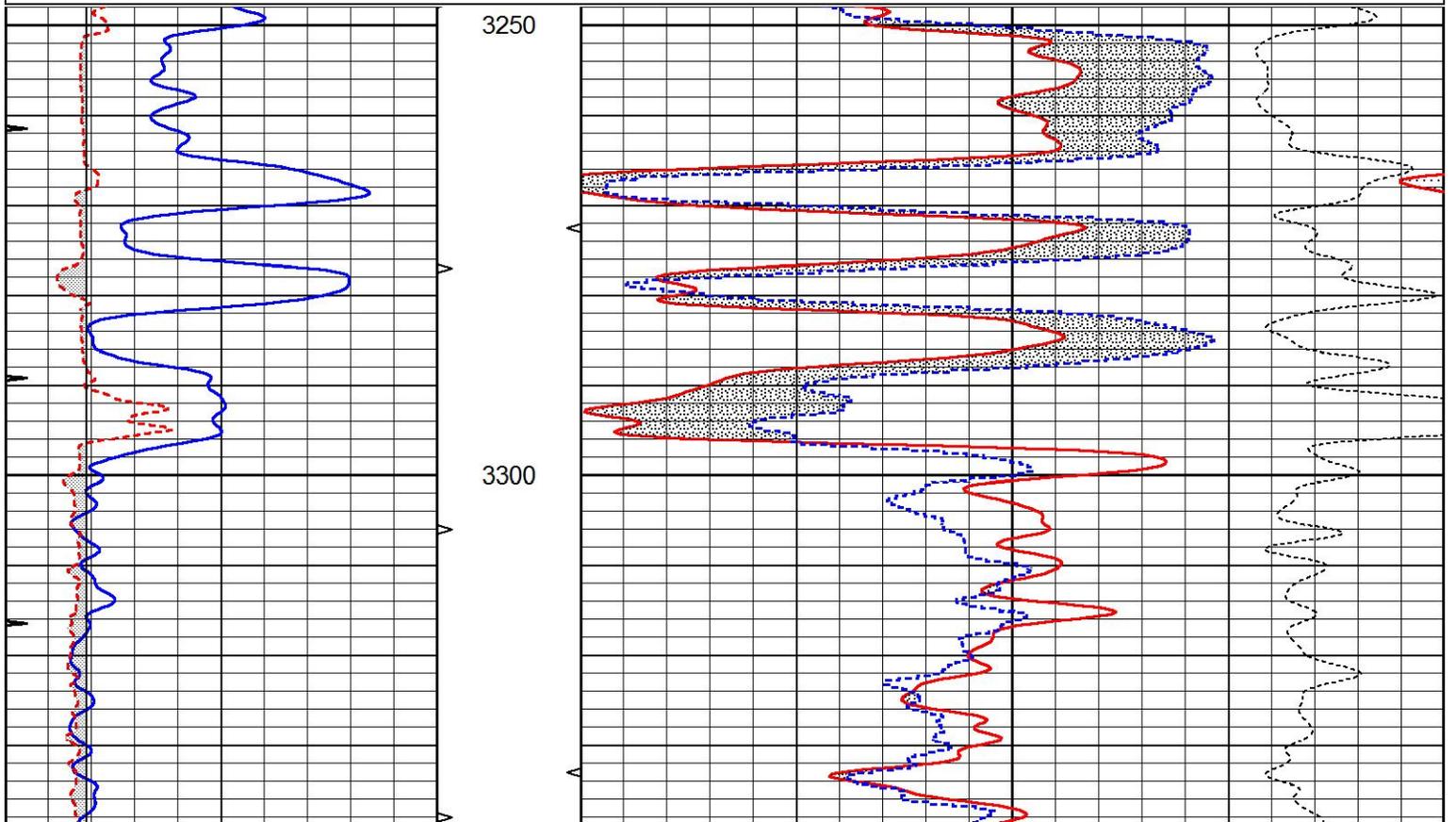
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		

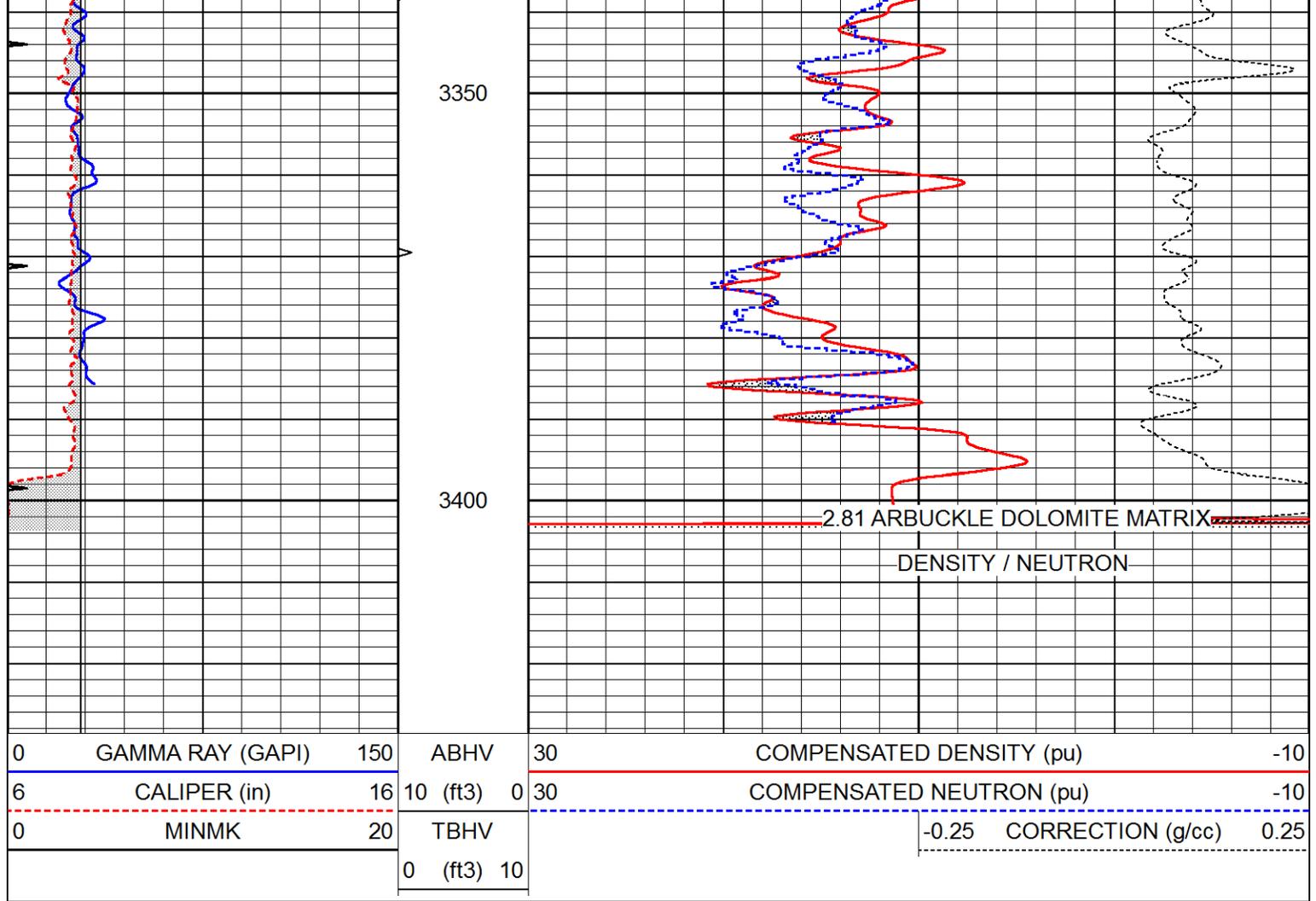




DOLOMITE MATRIX

Database File 6568ddn.db
 Dataset Pathname pass2.2D
 Presentation Format den_neu
 Dataset Creation Mon Jun 20 20:29:50 2022
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File 6568ddn.db
 Dataset Pathname pass3.1M
 Dataset Creation Mon Jun 20 21:18:36 2022

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
 Surface Cal Performed: Mon Jun 20 20:27:34 2022
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008
 After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	625.000	-4.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	650.000	-25.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000

LL3	7.500	V	1400.000	Ohm-m
	0.000	V	20.000	Ohm-m
	-7.200	V	4000.000	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: 004 Model: PRB

Master Calibration		Performed Mon May 23 11:44:16 2022			
	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	1148.7	7216.0	2498.2	2291.5	cps
Window 2	1052.1	6193.6	2181.7	2034.2	cps
Window 3	896.0	3827.3	1530.0	1472.6	cps
Window 4	252.1	258.7	255.1	254.3	cps
Long Space	0.0	5141.5	1129.6	982.1	cps
Short Space	3.4	1390.2	903.9	792.3	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	
Rib Angle	: 44.1	Rib Slope	: 0.970	Density/Spine Ratio	: 0.559
Spine Angle	: 74.1	Spine Slope	: 3.520	Spine Intercept	: -16.9

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: 61

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