



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Brehm Asset Management LLC
 Well Dettmer-Wilkens #2-32
 Field Slate East
 County Rooks
 State Kansas

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Location: API #: 15-163-24457-00-00
 NE SW SW NW
 2298 FNL & 335 FWL
 SEC 32 TWP 6S RGE 19W
 Permanent Datum Ground Level Elevation 2049
 Log Measured From Kelly Bushing
 Drilling Measured From Kelly Bushing
 Other Services
 DIL/MEL
 K.B. 2057
 D.F. G.L. 2049

Date	8/16/2022						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	3590						
Depth Logger	3591						
Bottom Logged Interval	3589						
Top Logged Interval	3200						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	1900						
Density	8.9						
Level	Full						
Max. Rec. Temp. F	112						
Operating Rig Time	3.5 Hours						
Equipment -- Location	P-24 Hays						
Recorded By	T. Martin						
Witnessed By	Dwight Brehm						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	224	8.625	23	00	224
Two	7.875	224	TD				
Casing Record							

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All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Stockton, KS, W on Hwy 24
 to Rd 8, 5.5 N, E into

Log Measured From: Kelly Bushing Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
 785-625-3858

Your Midwest Wireline Crew		This Log Record Was Witnessed By	
Engineer: T. Martin	Operator:	Primary Witness: Dwight Brehm	Secondary Witness: Ken Keltner
Operator:	Operator:	Secondary Witness:	Secondary Witness:
Operator:			

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	32.75		GR-M&W (106)	3.00	3.50	50.00
CNLSC CNSSC	29.65 28.90		CNT-M&W (207-MW)	5.00	3.50	100.00
LSD DCAL SSD	20.60 20.58 20.10		CDL-M&W (305-24)	8.50	4.00	250.00
RLL3F RLL3	15.50 15.50		DIL-M&W (507)	18.25	3.50	220.00
CILD	8.33					
CILM	4.50					
SP	0.20					

Dataset: brehm_dettmer-wilkens #2-32.db: field/well/Stack/pass3.1
 Total length: 34.75 ft
 Total weight: 620.00 lb
 O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrion\Data\brehm_dettmer-wilkens #2-32.db
 Dataset field/well/Stack/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	112	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	0	80	Off	3591

Variable Description

A : Cement Factor (a)
 BOREID : Borehole I.D.
 BOTTEMP : Bottom Hole Temperature
 CASEOD : Casing O.D.
 CASETHCK : Casing Thickness
 FLUIDDEN : Fluid Density
 M : Cement Exp (m)
 MATRXDEN : Matrix Density

NPORSEL : Neutron Porosity Curve Select
 PERFS : Perforation Flag
 SNDERR : Deep Sonde Error Correction
 SNDERRM : Medium Sonde Error Correction
 SPSHIFT : S.P. Baseline Offset
 SRFTEMP : Surface Temperature
 SZCOR : CN Size Cor. ?
 TDEPTH : Total Depth



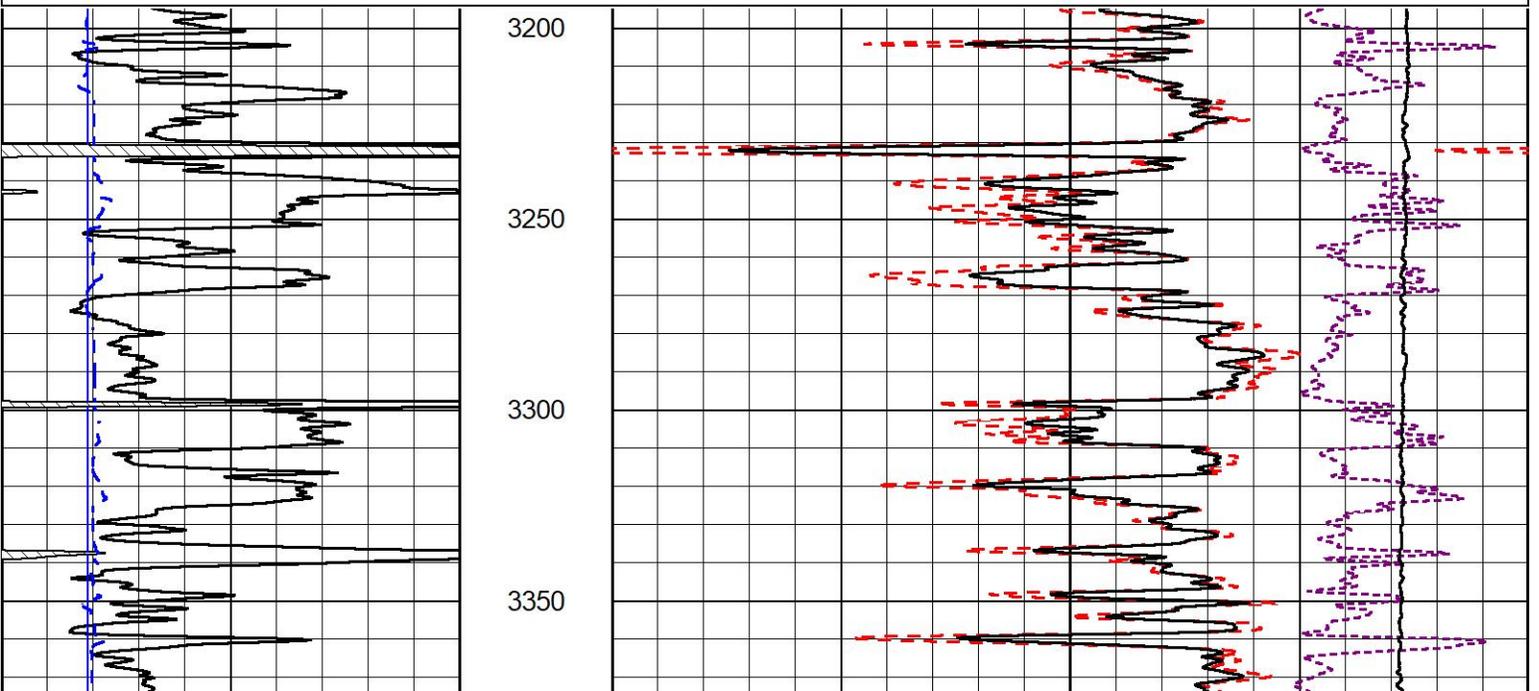
2" SCALE BULK DENSITY

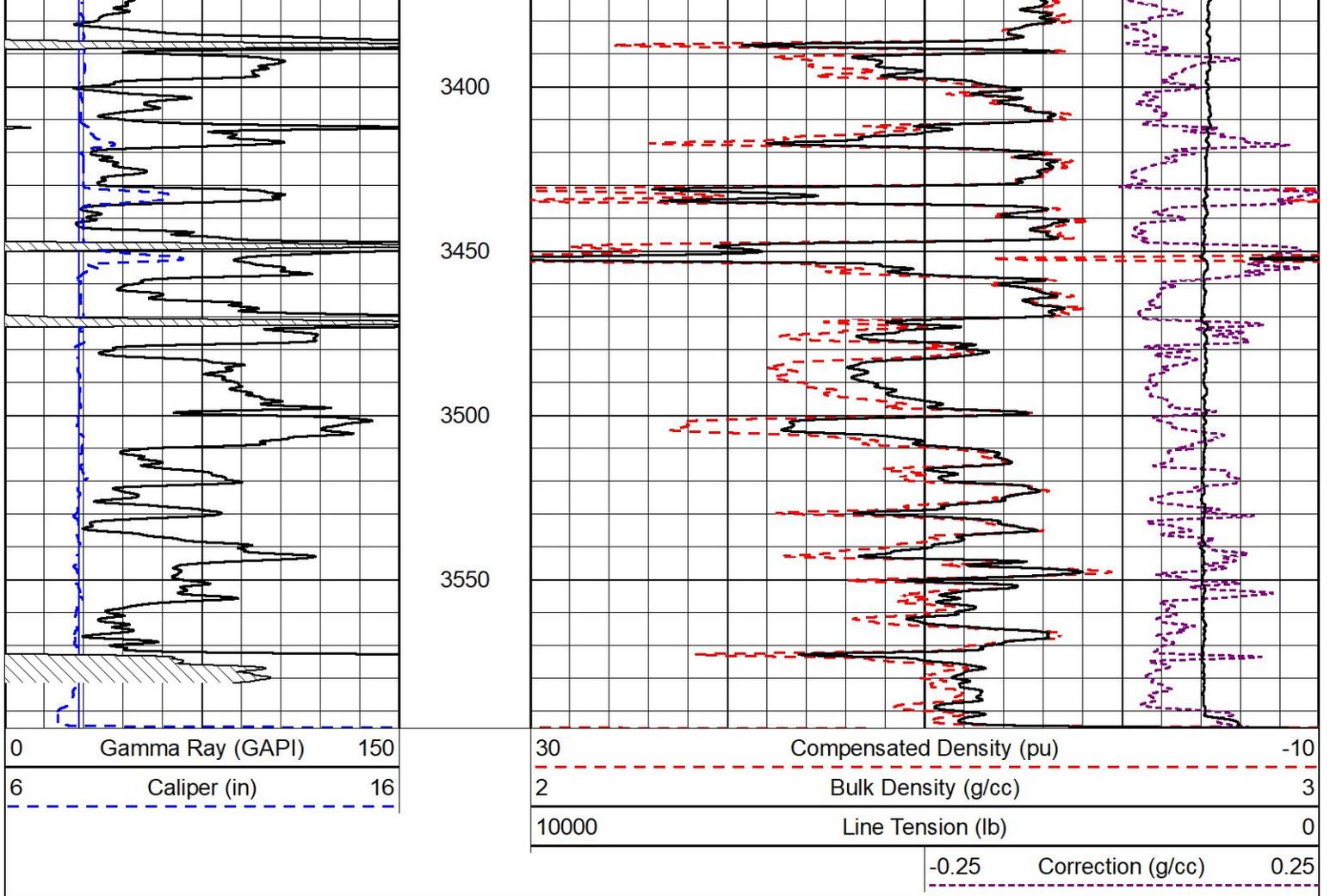
MAIN PASS

Database File brehm_dettmer-wilkens #2-32.db
 Dataset Pathname Stack/pass3.3
 Presentation Format _cdl
 Dataset Creation Tue Aug 16 03:47:33 2022
 Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25

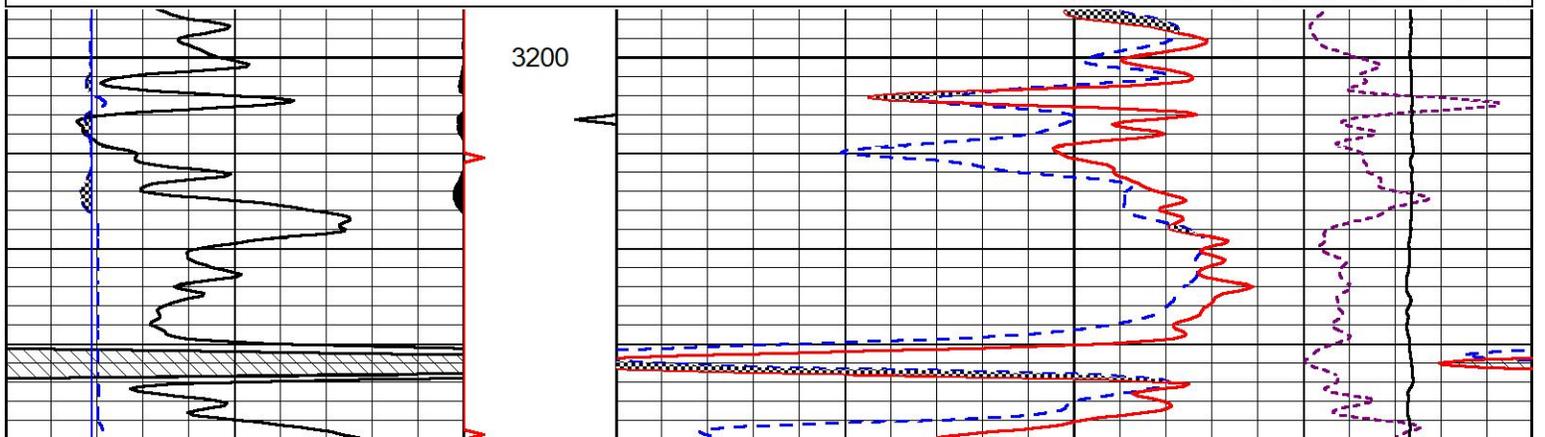
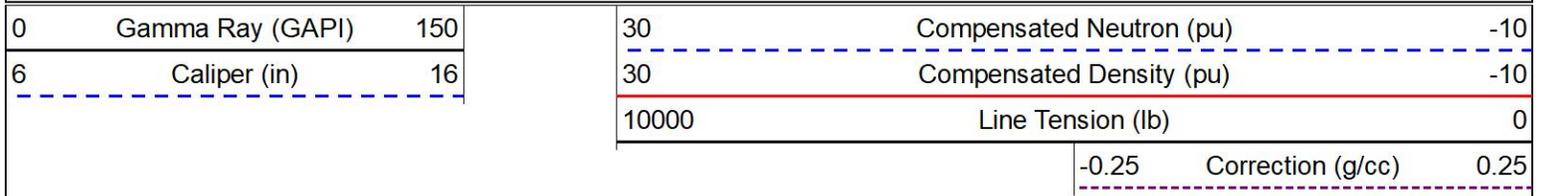


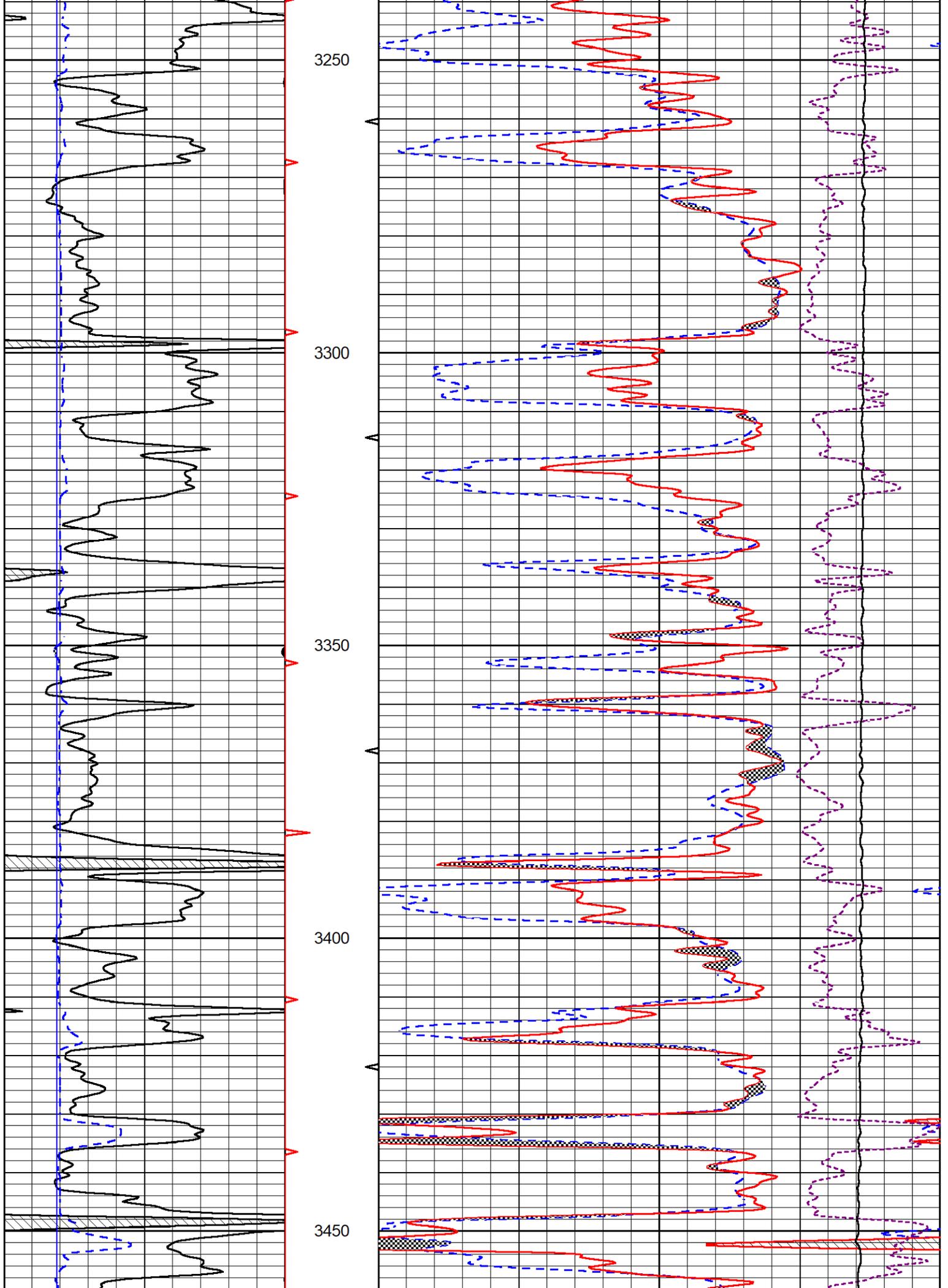


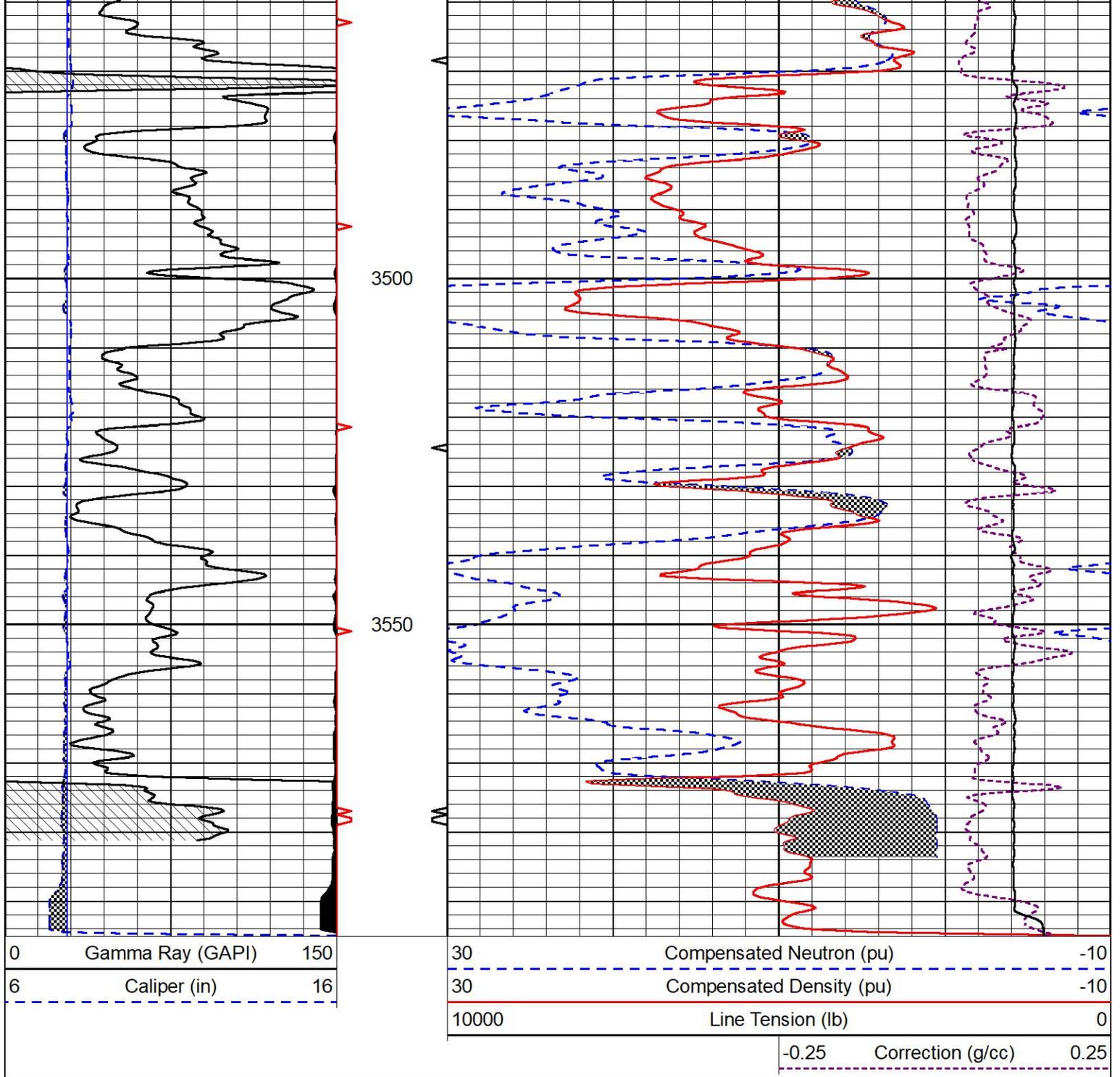
DETAIL SECTION

MAIN PASS

Database File brehm_dettmer-wilkens #2-32.db
 Dataset Pathname Stack/pass3.1
 Presentation Format _CNDLS~1
 Dataset Creation Tue Aug 16 04:13:17 2022
 Charted by Depth in Feet scaled 1:240





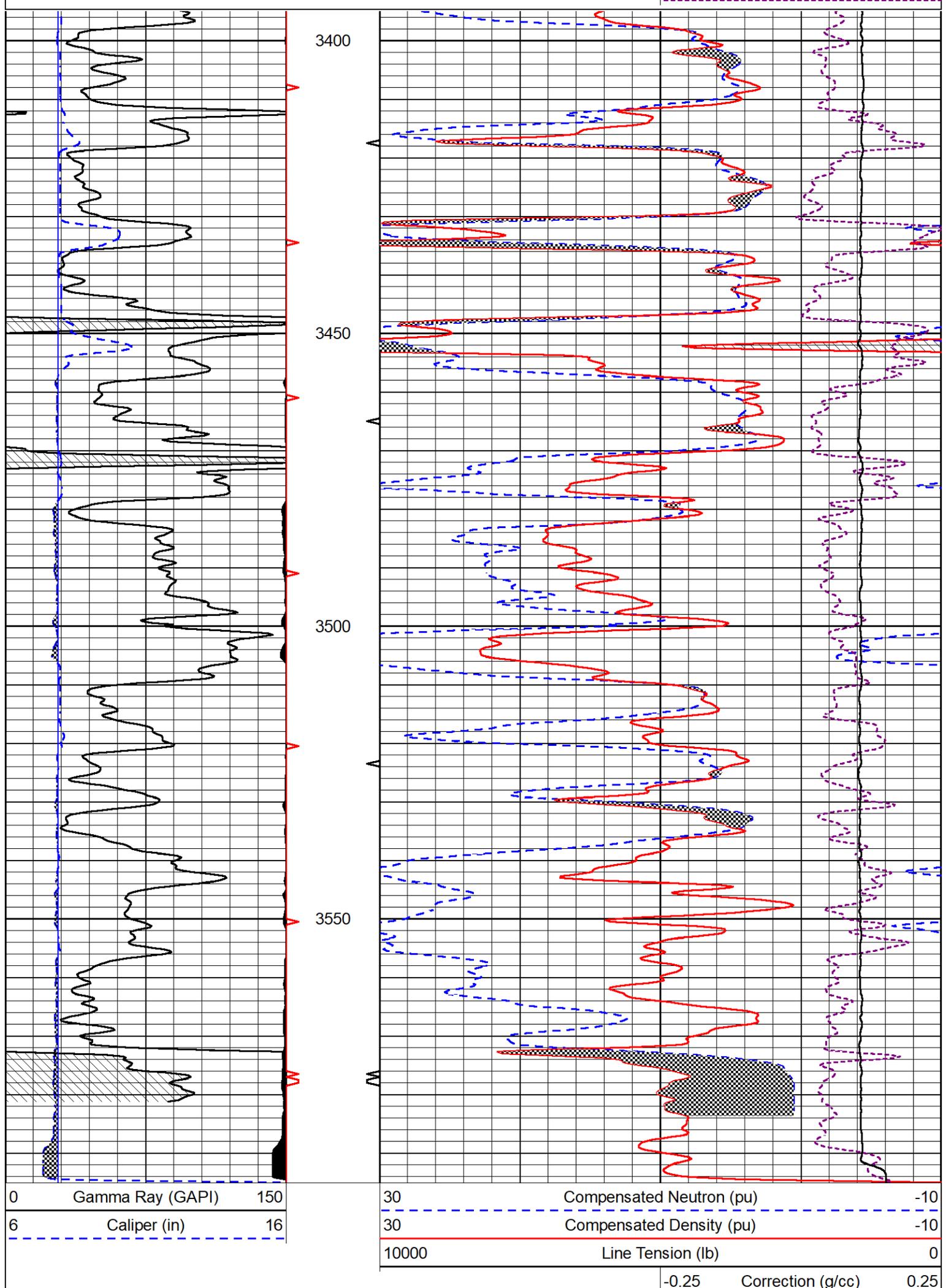


REPEAT SECTION

REPEAT PASS

Database File brehm_dettmer-wilkens #2-32.db
 Dataset Pathname Stack/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Tue Aug 16 03:46:03 2022
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	30	Compensated Neutron (pu)	-10
6	Caliper (in)	16	30	Compensated Density (pu)	-10
			10000	Line Tension (lb)	0
				-0.25 Correction (g/cc)	0.25



0 Gamma Ray (GAPI) 150
 6 Caliper (in) 16

30 Compensated Neutron (pu) -10
 30 Compensated Density (pu) -10

10000 Line Tension (lb) 0

-0.25 Correction (g/cc) 0.25

Long Space

cps

pu

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	pu
3)	Short Space Long Space	cps cps	pu	pu

Gamma Ray Calibration Report

Serial Number: 106
 Tool Model: M&W
 Performed: Fri Dec 3 15:10:46 2021

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps
 Calibrator Reading: 637.0 cps

Sensitivity: 0.5500 GAPI/cps



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