



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **MAREXCO, INC.**
Well **STUCKY #14-2**
Field **WILDCAT**
County **SCOTT** State **KANSAS**

Location: API #: 15-171-21243-00-00

Other Services

SEC 2 TWP 19S RGE 31W
875' FSL & 920' FWL

DIL/MEL
BHCS

Permanent Datum GROUND LEVEL Elevation 2928'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2933'
D.F. N/A
G.L. 2928'

Date 5/1/2019

Run Number ONE

Type Log CNL/CDL

Depth Driller 4670'

Depth Logger 4668'

Bottom Logged Interval 4647'

Top Logged Interval 3400'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 3000

Density 8.9

Level FULL

Max. Rec. Temp. F 123 DEG/F

Operating Rig Time 4 HOURS

Equipment -- Location P-108 HAYS

Recorded By J. HENRICKSON

Witnessed By RICK HALL

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0	219'	8.625"	23#	0	219'
TWO	7.875"	219'	TD				

<<< Fold Here >>>

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

DIGHTON KANSAS

14 WEST TO VENISON ROAD, 3 SOUTH, EAST INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

www.pioneerenergy.com

785-625-3858

Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON

Operator:

Operator:

Operator:

This Log Record Was Witnessed By

Primary Witness: RICK HALL

Secondary Witness:

Secondary Witness:

Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 123	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 143	degF 53	Off	ft 4668

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	33.00			GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	29.90			CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	29.15						
LSD DCAL SSD	20.85			CDL-M&W (144-84)	8.50	4.00	250.00
	20.83						
	20.35						
RLL3	15.80			DIL-M&W (PSI 988)	18.50	3.50	220.00
RLL3F	15.79						
CILD	8.00						

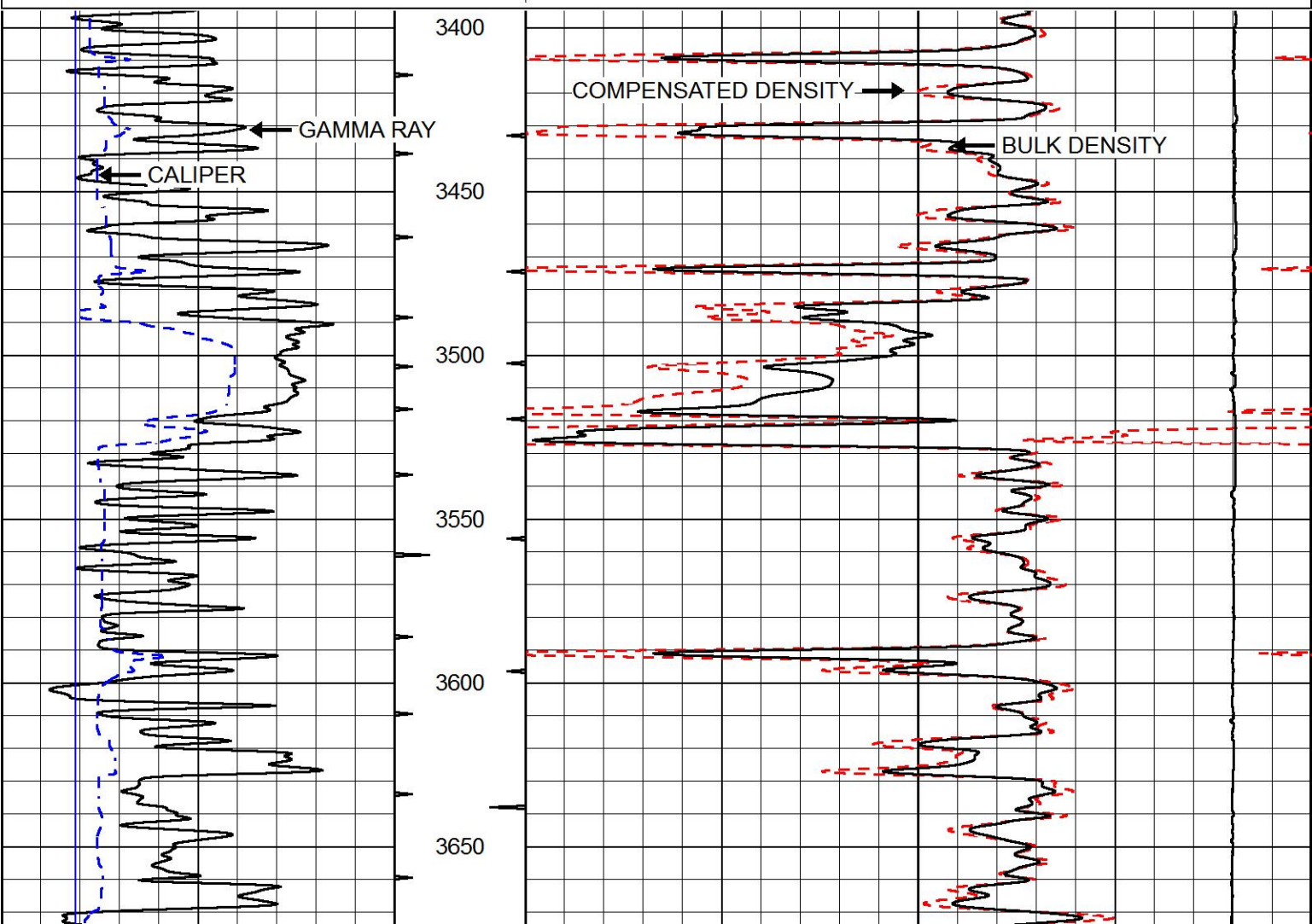
CILM	4.70								
SP	0.20								
Dataset: marexco_stucky_14_2.db: field/well/stack/pass3.1 Total length: 35.50 ft Total weight: 620.00 lb O.D.: 4.00 in									

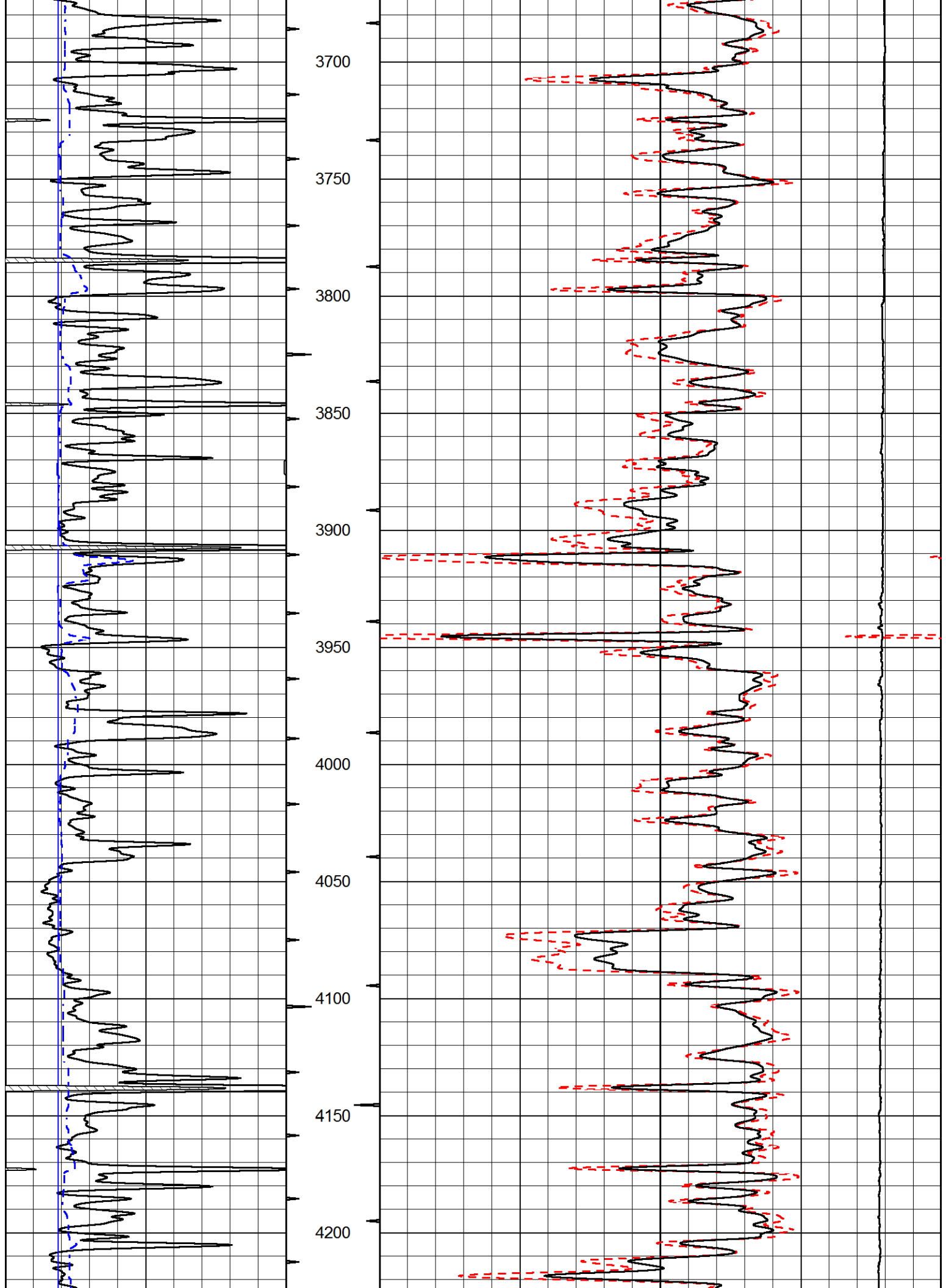


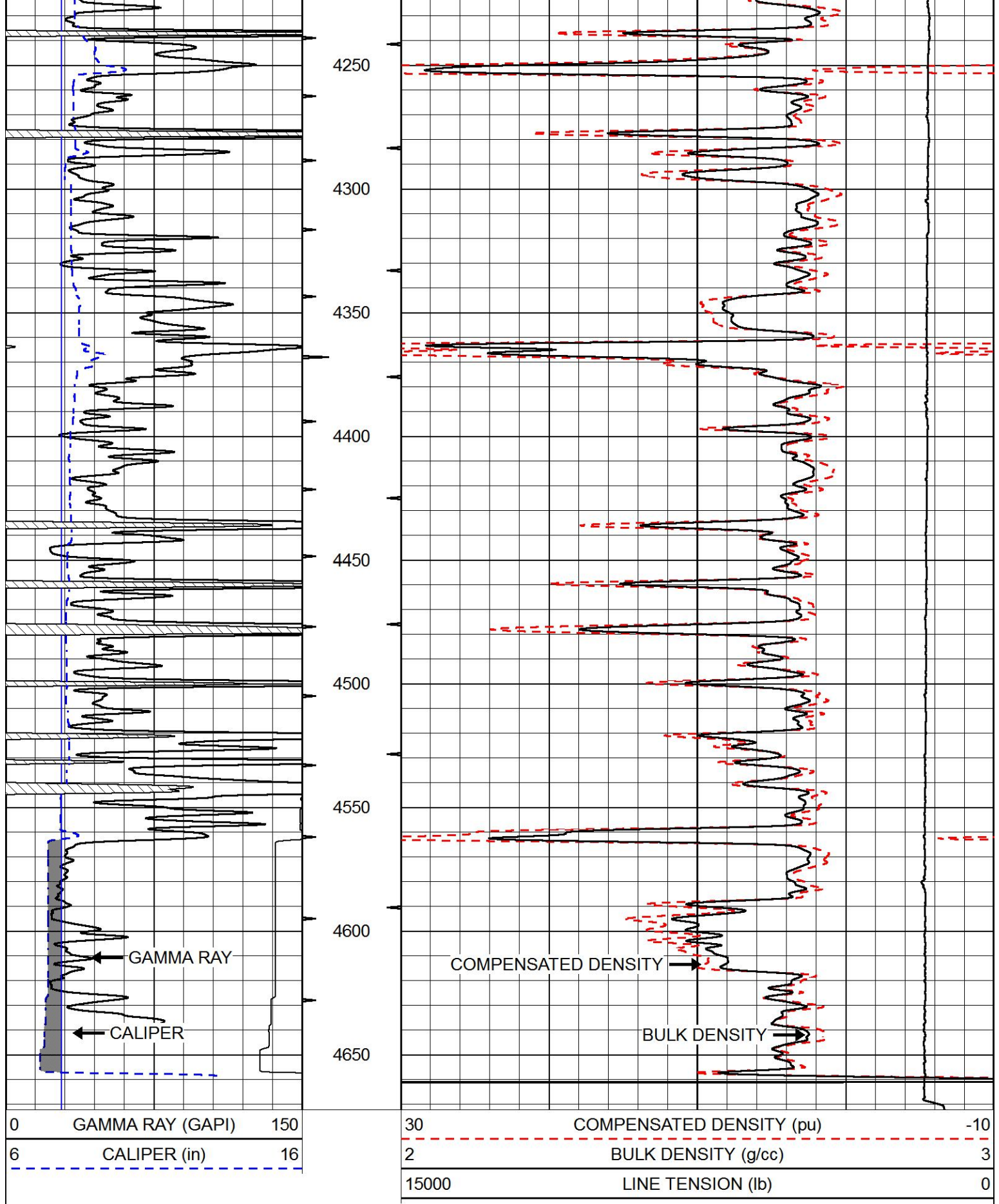
MAIN PASS

Database File	marexco_stucky_14_2.db
Dataset Pathname	stack/pass3.1
Presentation Format	cdl
Dataset Creation	Wed May 01 13:59:50 2019
Charted by	Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	150	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	2	BULK DENSITY (g/cc)	3
			15000	LINE TENSION (lb)	0





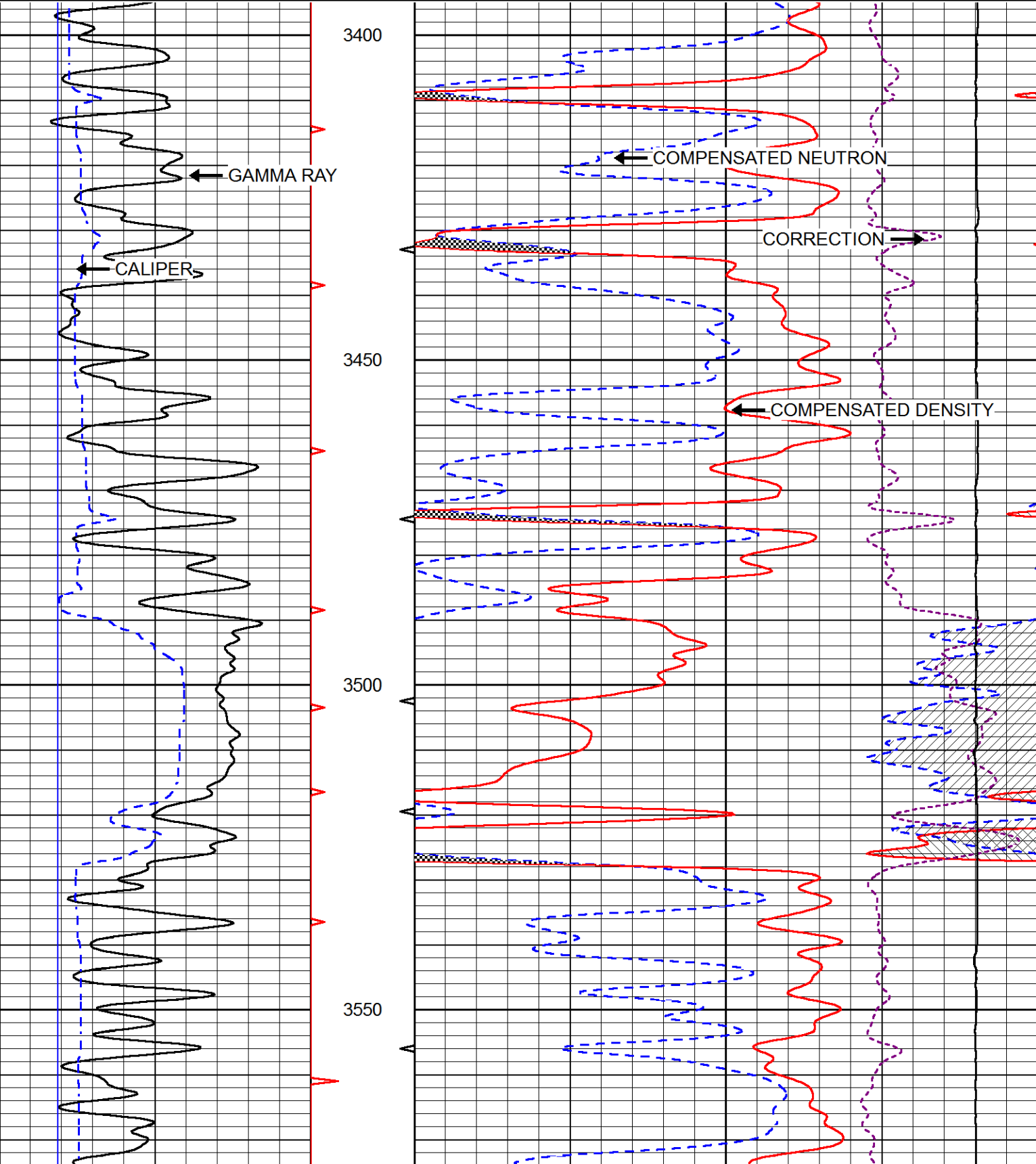


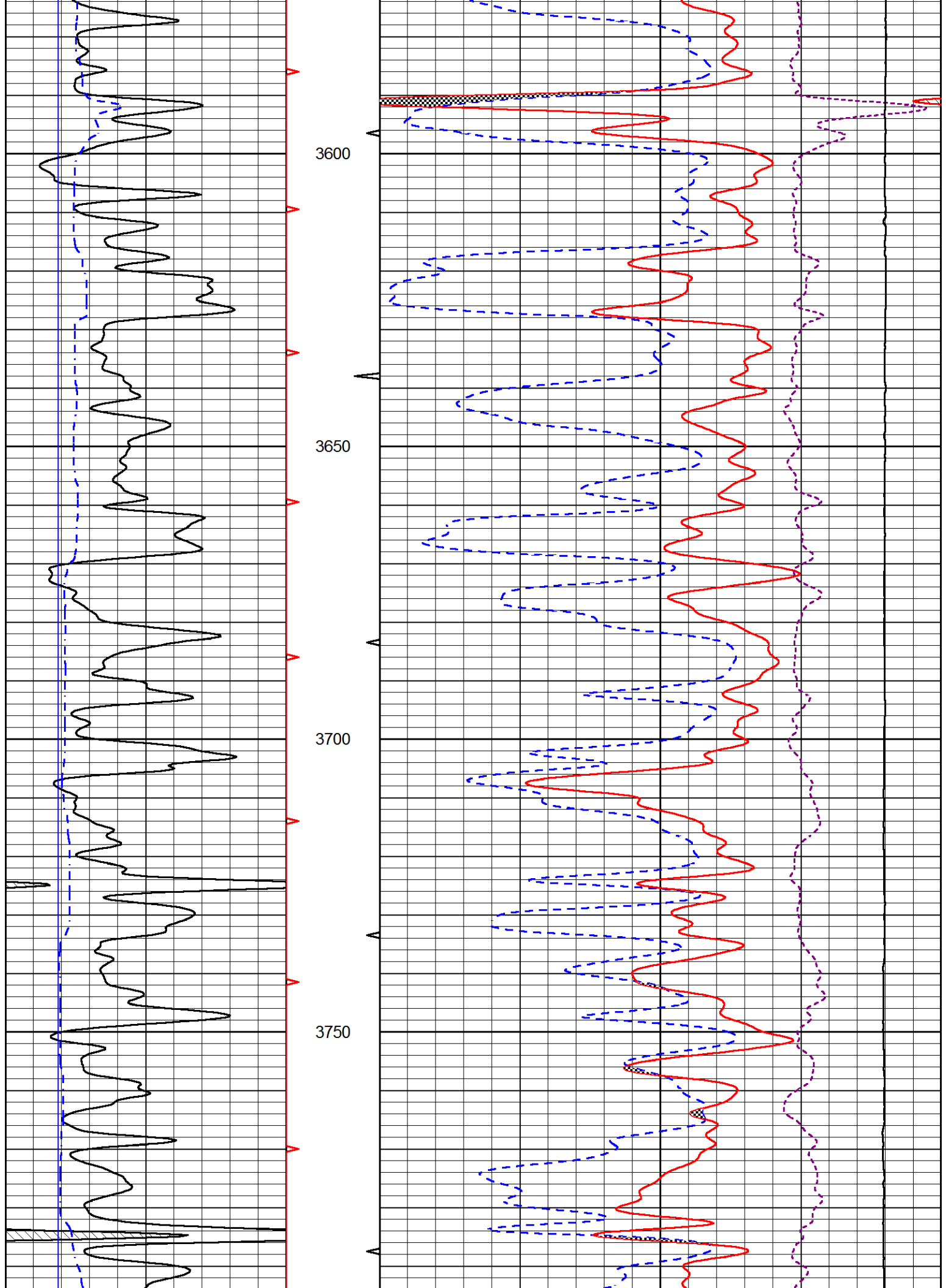
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Dataset Pathname stack/pass3.1
Presentation Format cndlspec
Dataset Creation Wed May 01 13:59:50 2019
Charted by Depth in Feet scaled 1:240

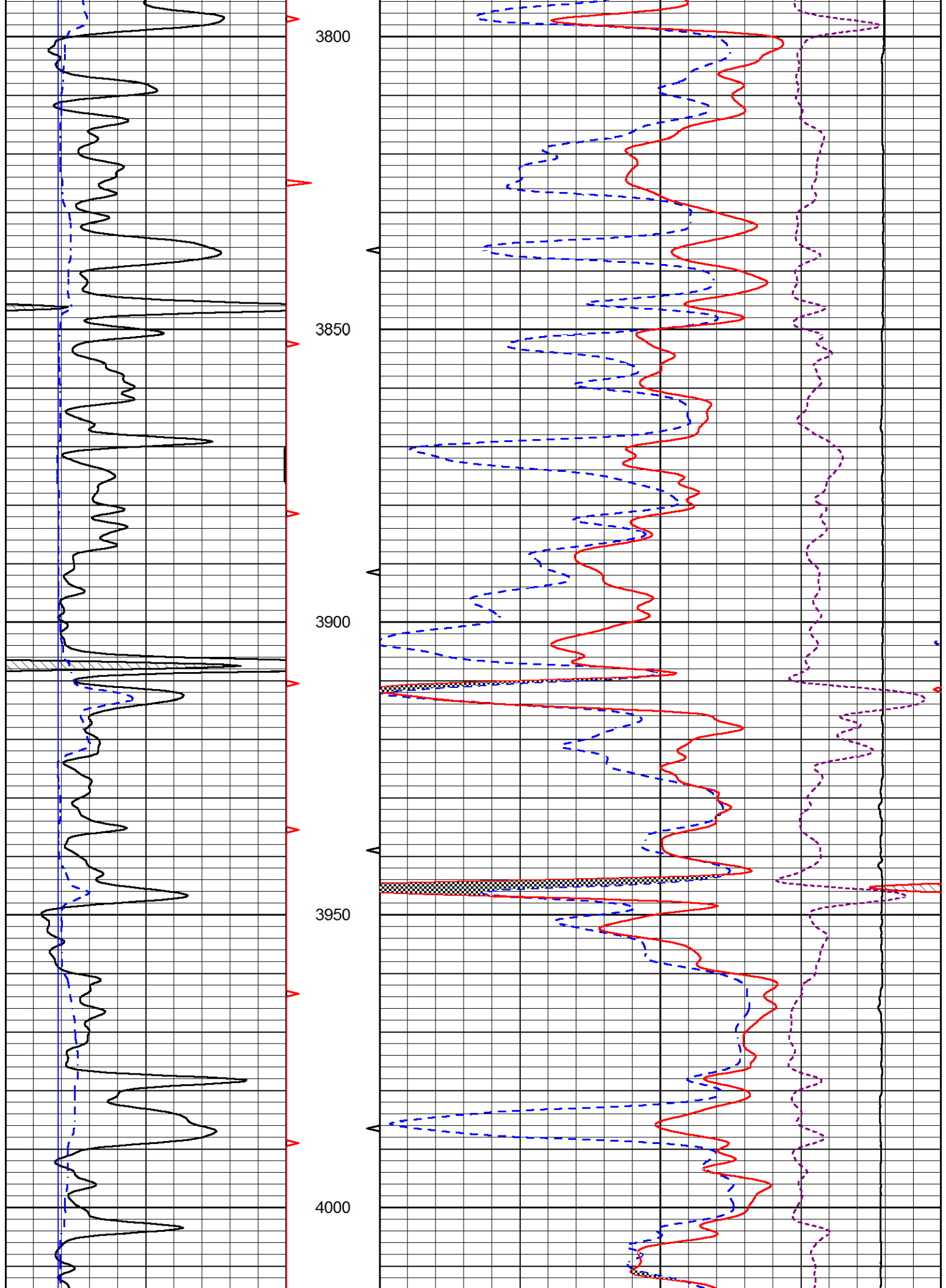
0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

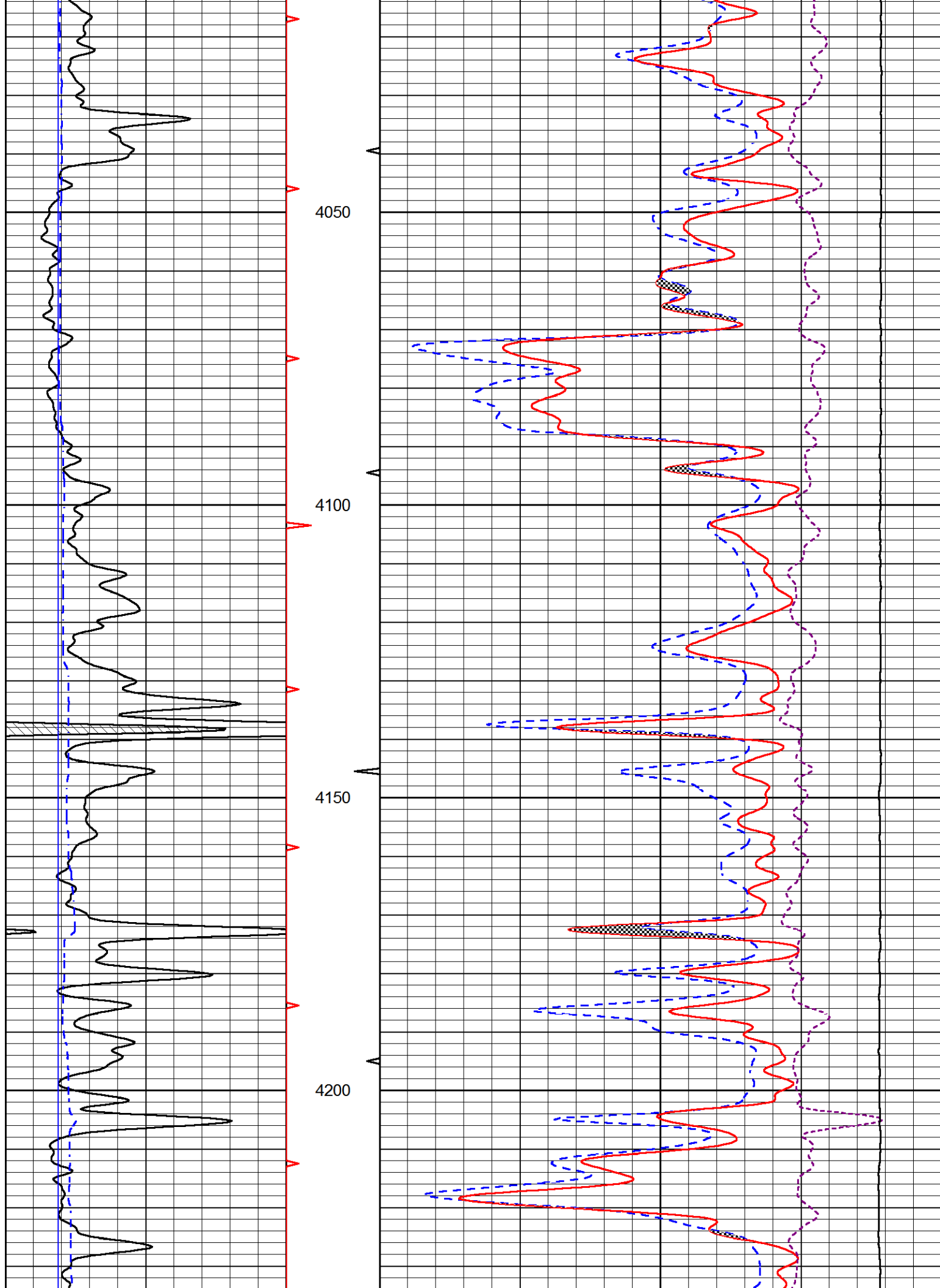
30	CNLS (pu)	-10
30	DPOR (pu)	-10
15000	LINE TENSION (lb)	0

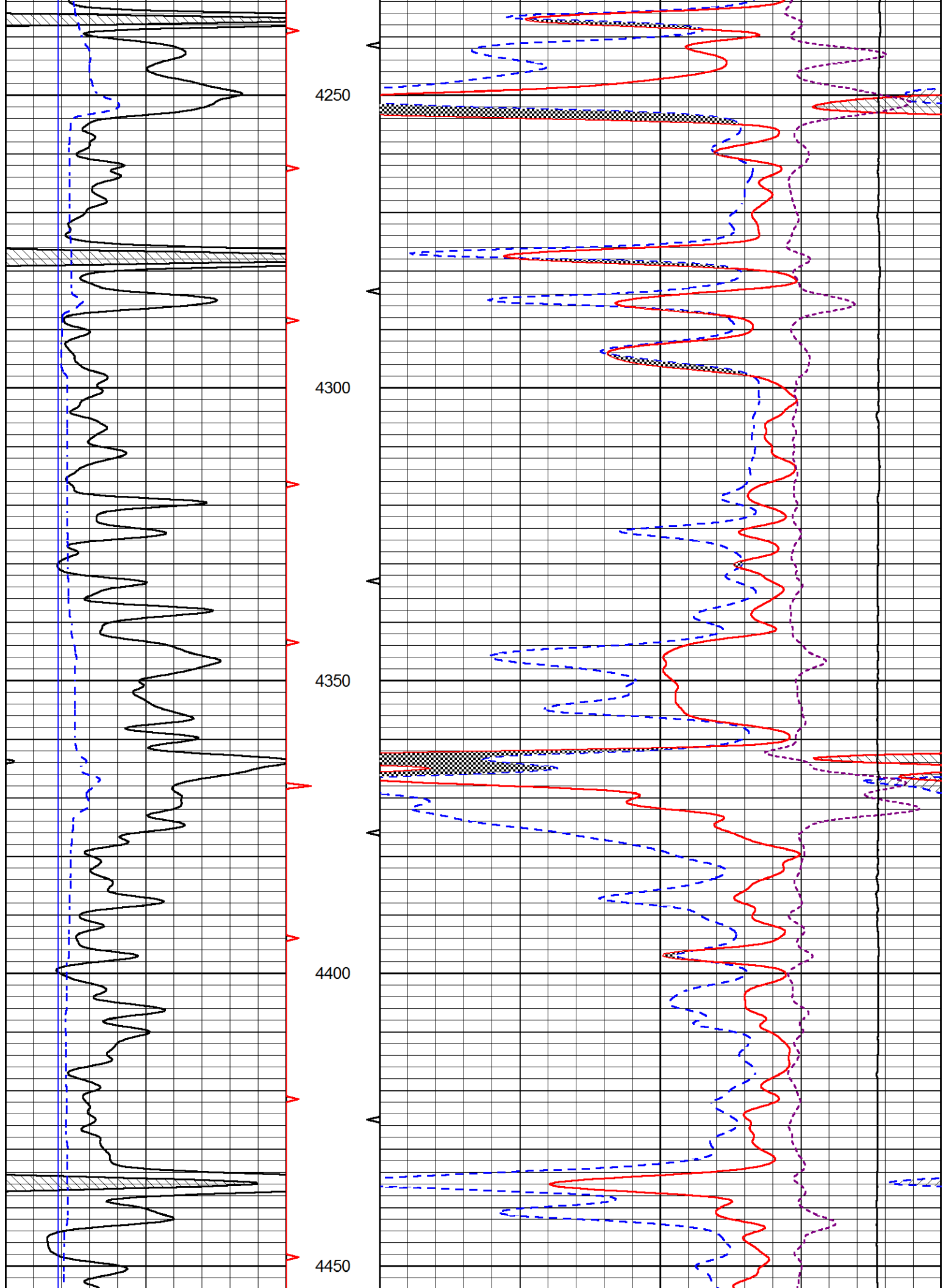
-0.25	RHOC (g/cc)	0.25
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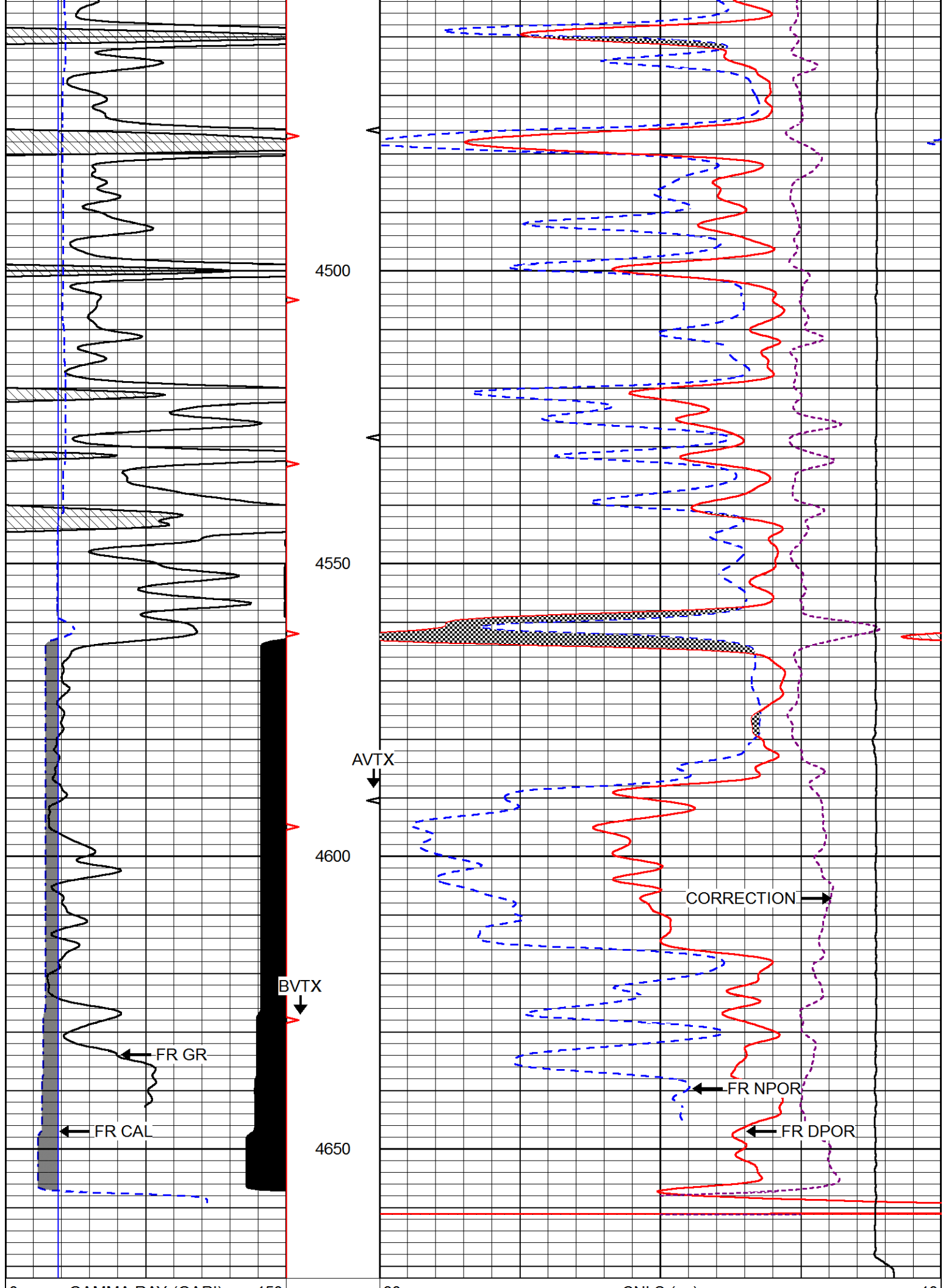












6	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

30	CNLS (pu)		-10
30	DPOR (pu)		-10
15000	LINE TENSION (lb)		0
	-0.25	RHOC (g/cc)	0.25

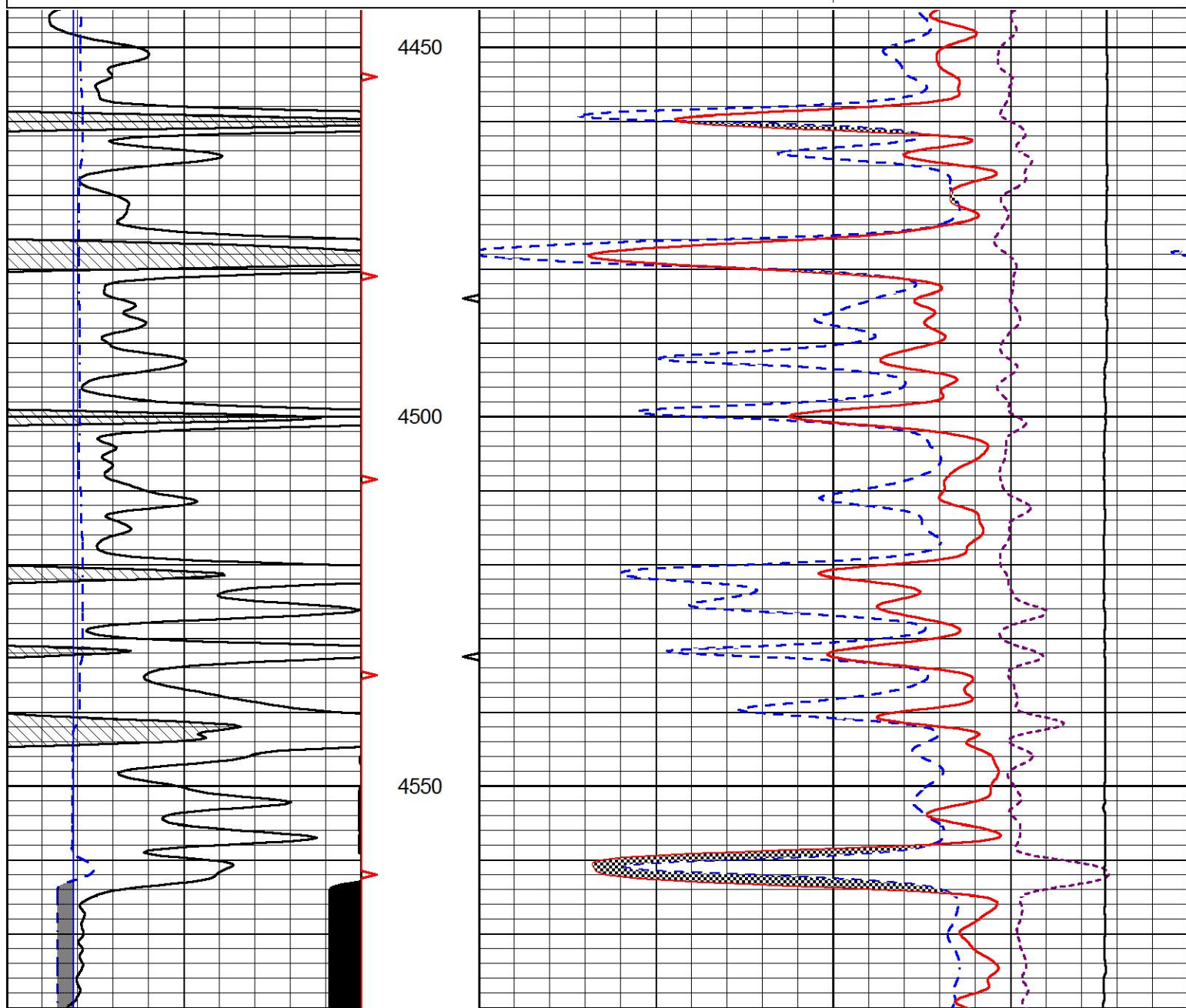


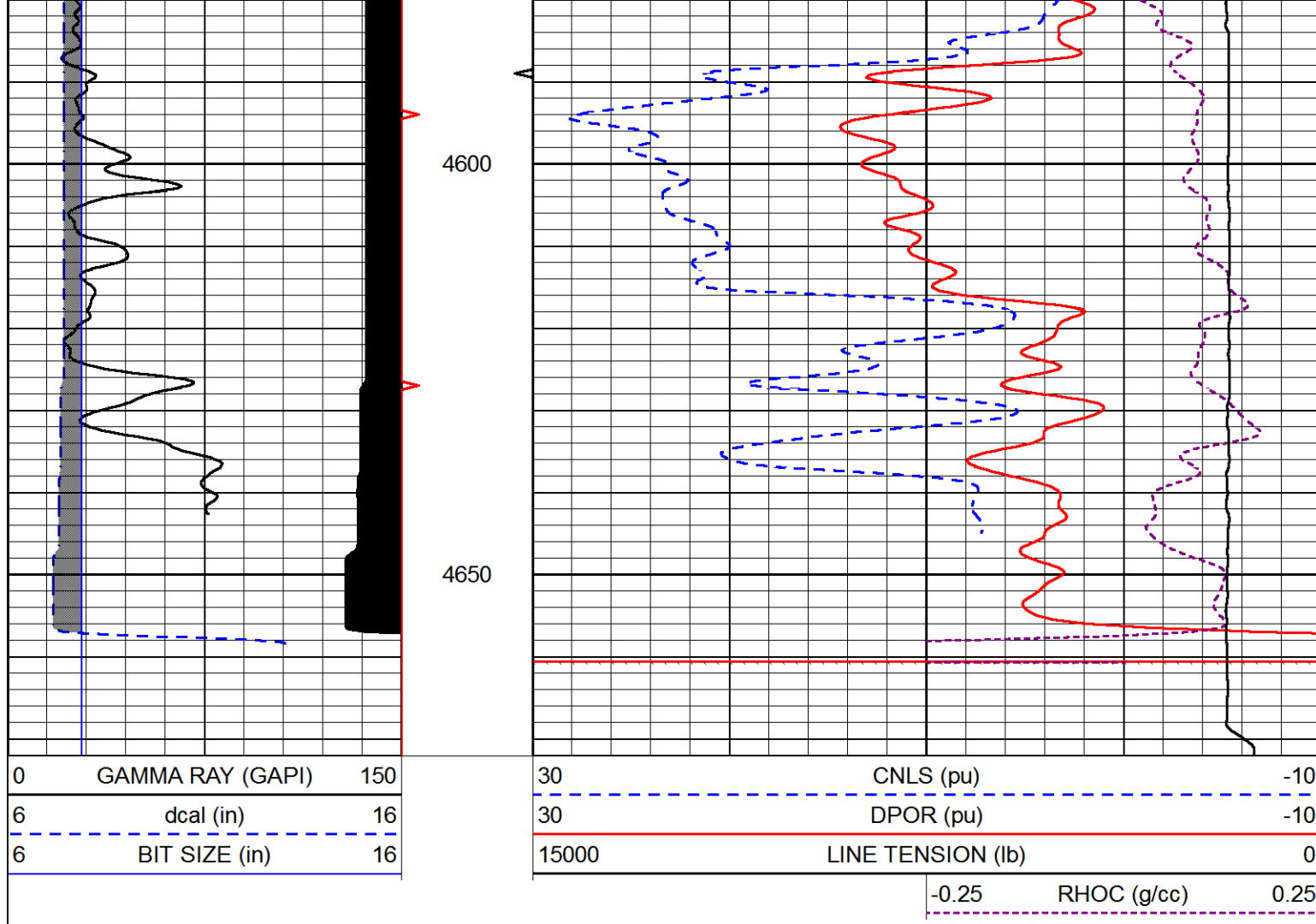
REPEAT SECTION

Database File marexco_stucky_14_2.db
Dataset Pathname stack/pass2.1
Presentation Format cndlspec
Dataset Creation Wed May 01 13:08:22 2019
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

30	CNLS (pu)		-10
30	DPOR (pu)		-10
15000	LINE TENSION (lb)		0
	-0.25	RHOC (g/cc)	0.25





Calibration Report

Database File marexco_stucky_14_2.db
Dataset Pathname stack/pass3.1
Dataset Creation Wed May 01 13:59:50 2019

Dual Induction Calibration Report

Serial-Model: PSI 988-M&W
Calibration Performed: Tue Nov 20 10:50:19 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.525	-44.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.380	-17.000

Compensated Density Calibration Report

Serial-Model: 144-84-M&W
Source / Verifier: /
Master Calibration Performed: Mon Jan 07 15:00:31 2019

Master Calibration

Density

Far Detector

Near Detector

Magnesium	1.755	g/cc	4315.49	5309.89	cps
Aluminum	2.675	g/cc	825.26	3443.46	cps

Spine Angle = 75.33

Density/Spine Ratio = 0.538

	Size		Reading
Small Ring	4.00	in	0.69
Large Ring	14.00	in	0.04

Compensated Neutron Calibration Report

Serial Number:	tk10-MW
Tool Model:	M&W
Calibration Performed:	Wed Nov 16 11:21:36 2016

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number:	89-M&W
Tool Model:	M&W
Calibration Performed:	Tue Apr 11 17:08:01 2017
Calibrator Value:	1000.0 GAPI
Background Reading:	0.0 cps
Calibrator Reading:	6.2 cps
Sensitivity:	0.5200 GAPI/cps



Company	MAREXCO, INC.
Well	STUCKY #14-2
Field	WILDCAT
County	SCOTT
State	KANSAS