



Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **PIONEER RESOURCES**

Well MAIER NO. 1

Field WILDCAT

County **ELLIS** State **KANSAS**

Location: API #: 15-051-26840-00-00

620' FNL & 1,520' FWL

SEC 33 TWP 12S RGE 19W

Permanent Datum
GROUND LEVEL Elevation 2135

Drilling Measured From	KELLY BUSHING	2135'
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	10/15/2016
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CNL/CDL	

	3884'
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al	3100
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6000	7
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	FULL

	2 1/2 HOUR
e	

	J. LONG
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Whole Record	
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00'	232'	
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[illegible][illegible]

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.

YOCEMENTO (I-70 EXIT), 3 1/2 NORTH TO HOPEWELL ROAD, 2/3 WEST, SOUTH INTO

Log Measured From: KELLY BUSHING 7 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

www.pioneeres.com

785-625-3858

Your Pioneer Energy Services Crew

This Log Record Was Witnessed By

Engineer: J. LONG

Primary Witness: JANEL STAAB

Operator: C. PFEIFER

Secondary Witness:

Operator:

Secondary Witness:

Operator:

Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 115	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 -365	degF 81	Off	ft 3884

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	37.48			CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	36.73						
LSD DCAL SSD	28.43 28.42 27.93			CDL-M&W (71-914)	8.50	4.00	250.00
ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58				7.58	4.00	65.00
MCAL	19.83						
MI	19.83						
MN	19.83						
RLL3	15.80						
RLL3F	15.79						
CILD	8.00			DIL-M&W (1987)	18.50	3.50	220.00

CILM

4.70

SP

0.20

Dataset: pioneerresources_maier_1.db: field/well/stackmel/pass1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in



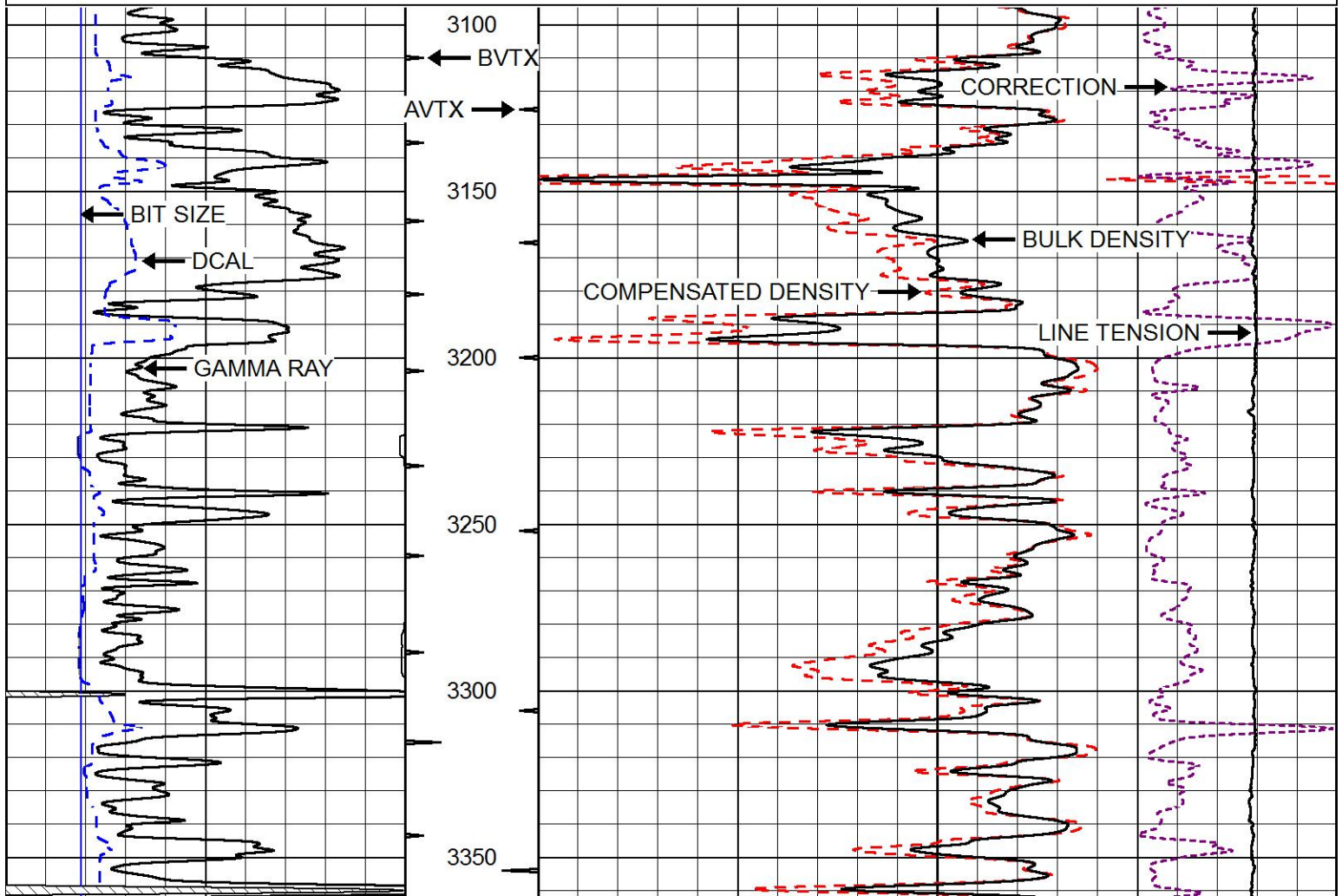
MAIN PASS

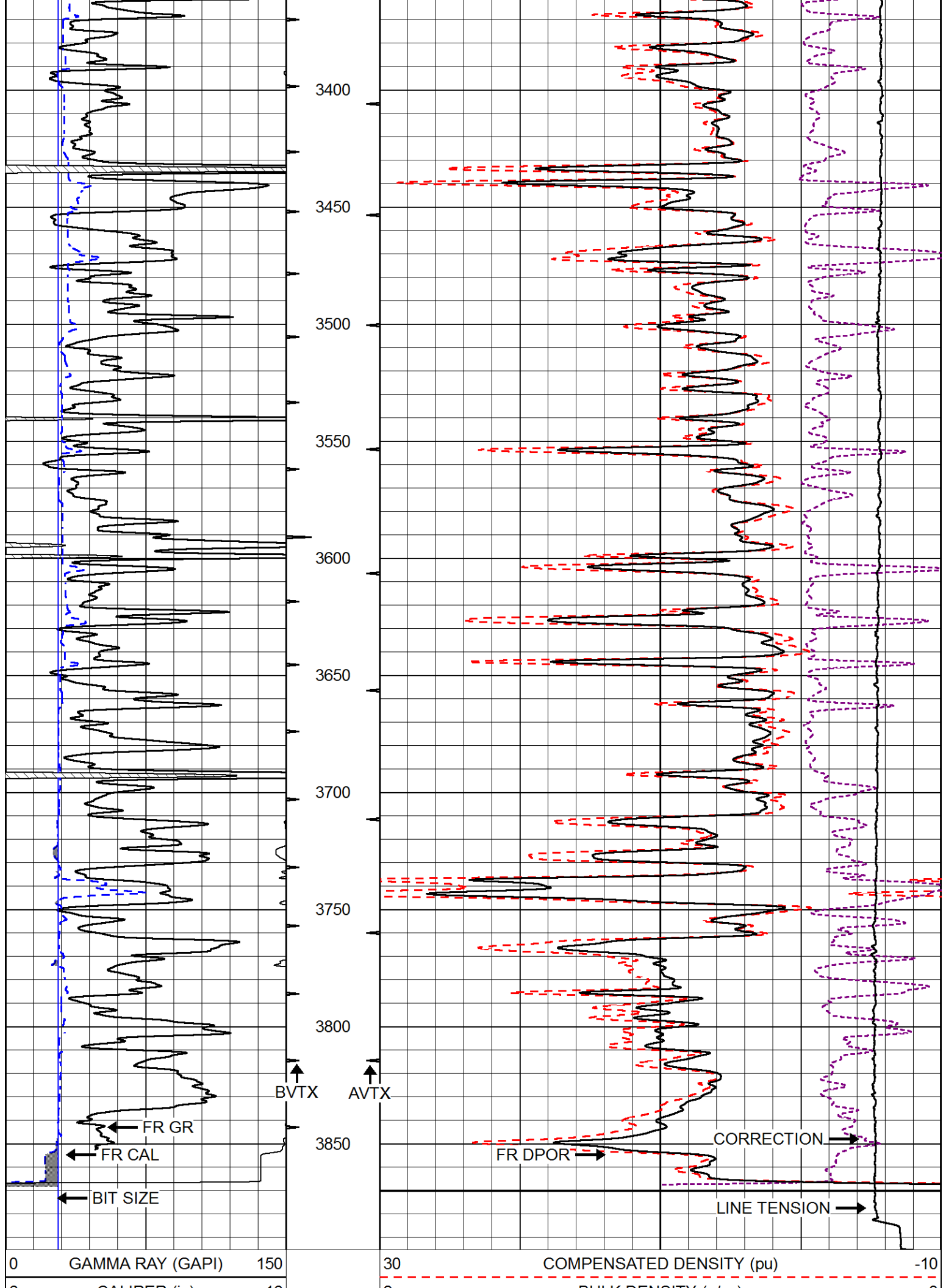
2" SCALE BULK DENSITY

Database File pioneerresources_maier_1.db
Dataset Pathname stackmel/pass4.3
Presentation Format cdl
Dataset Creation Sat Oct 15 18:39:54 2016
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
15000 LINE TENSION (lb) 0
-0.25 CORRECTION (g/cc) 0.25





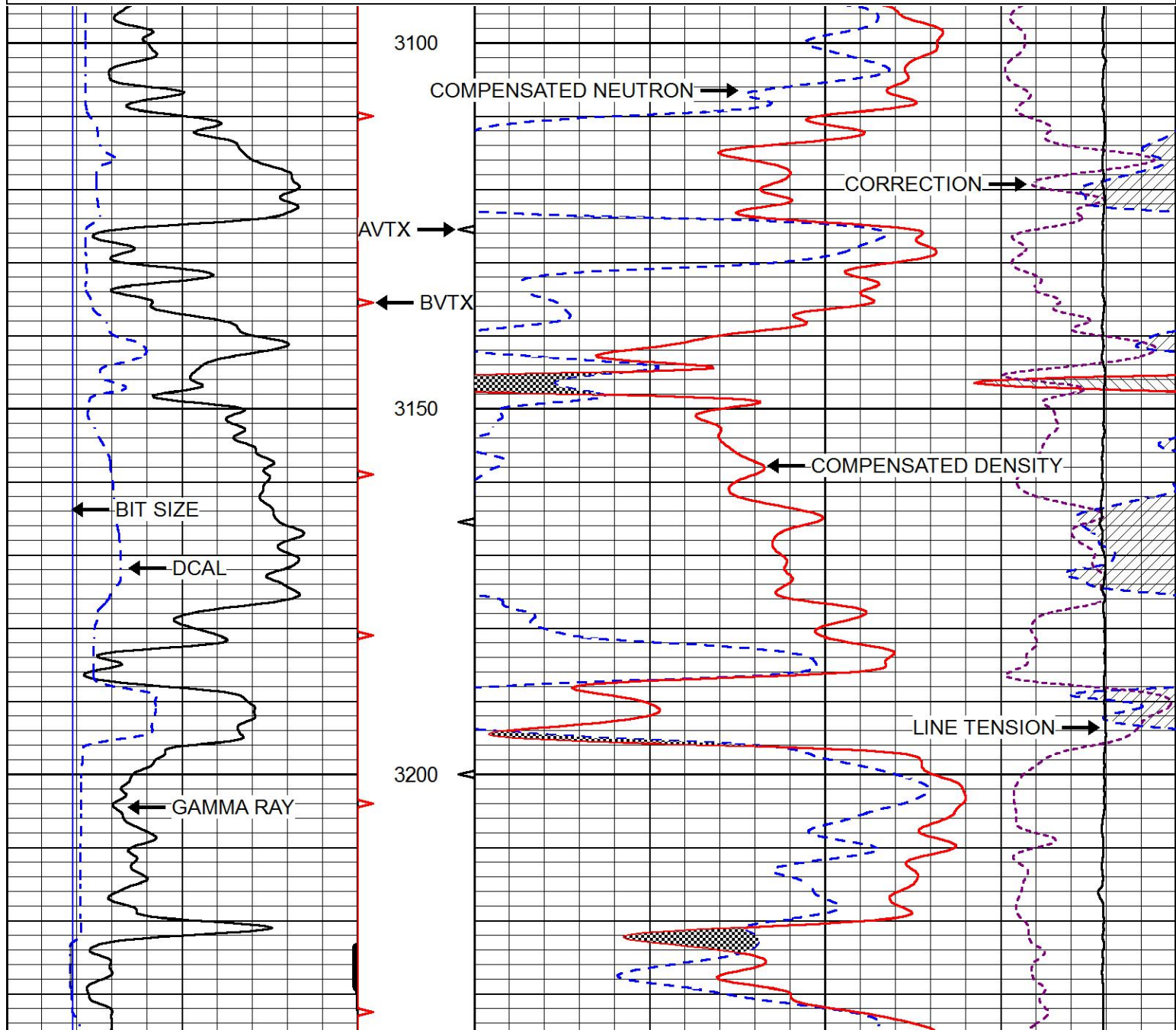
6	CALIPER (in)	16	2	BULK DENSITY (g/cc)	3
			15000	LINE TENSION (lb)	0
				-0.25	CORRECTION (g/cc) 0.25

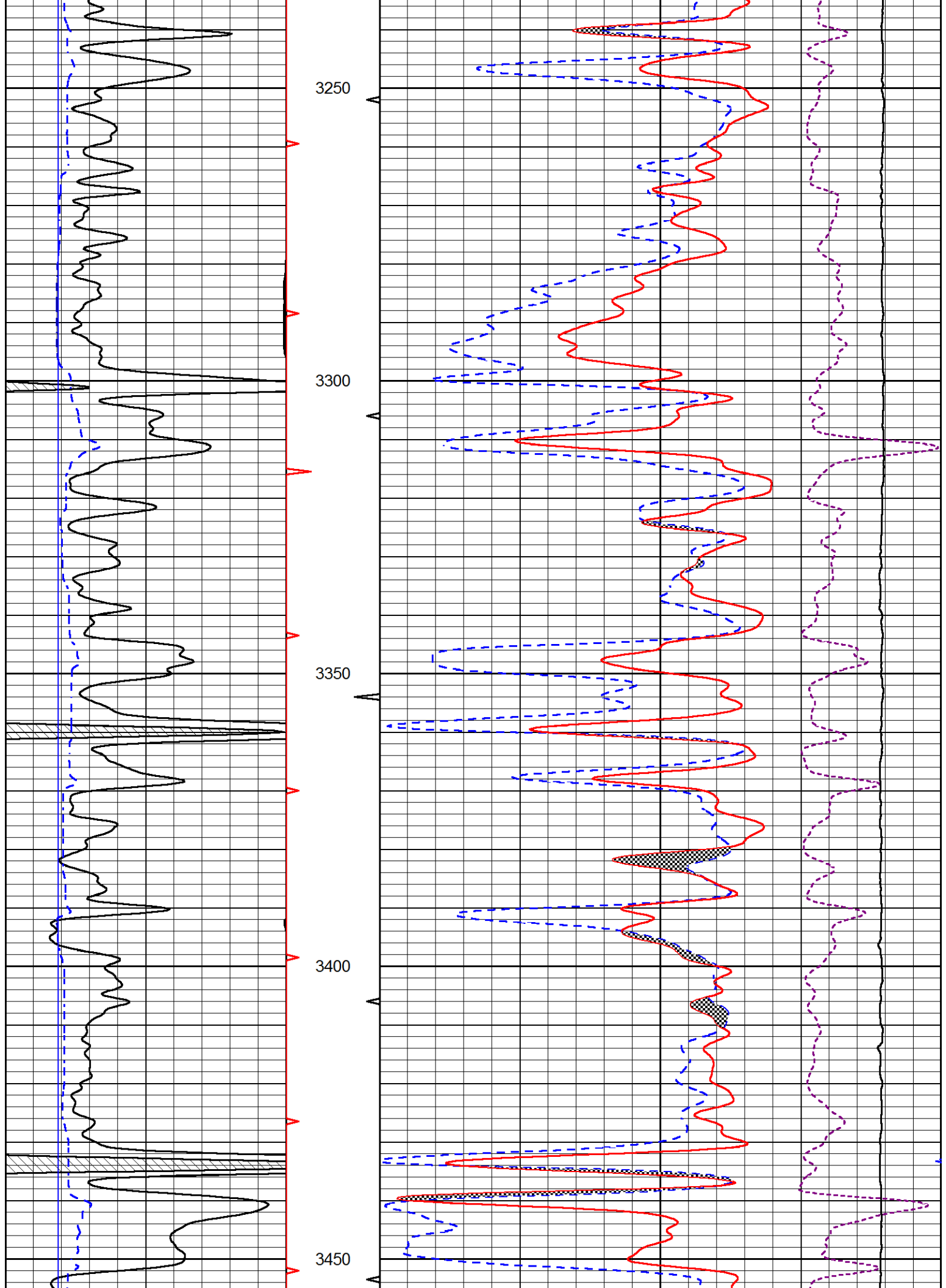


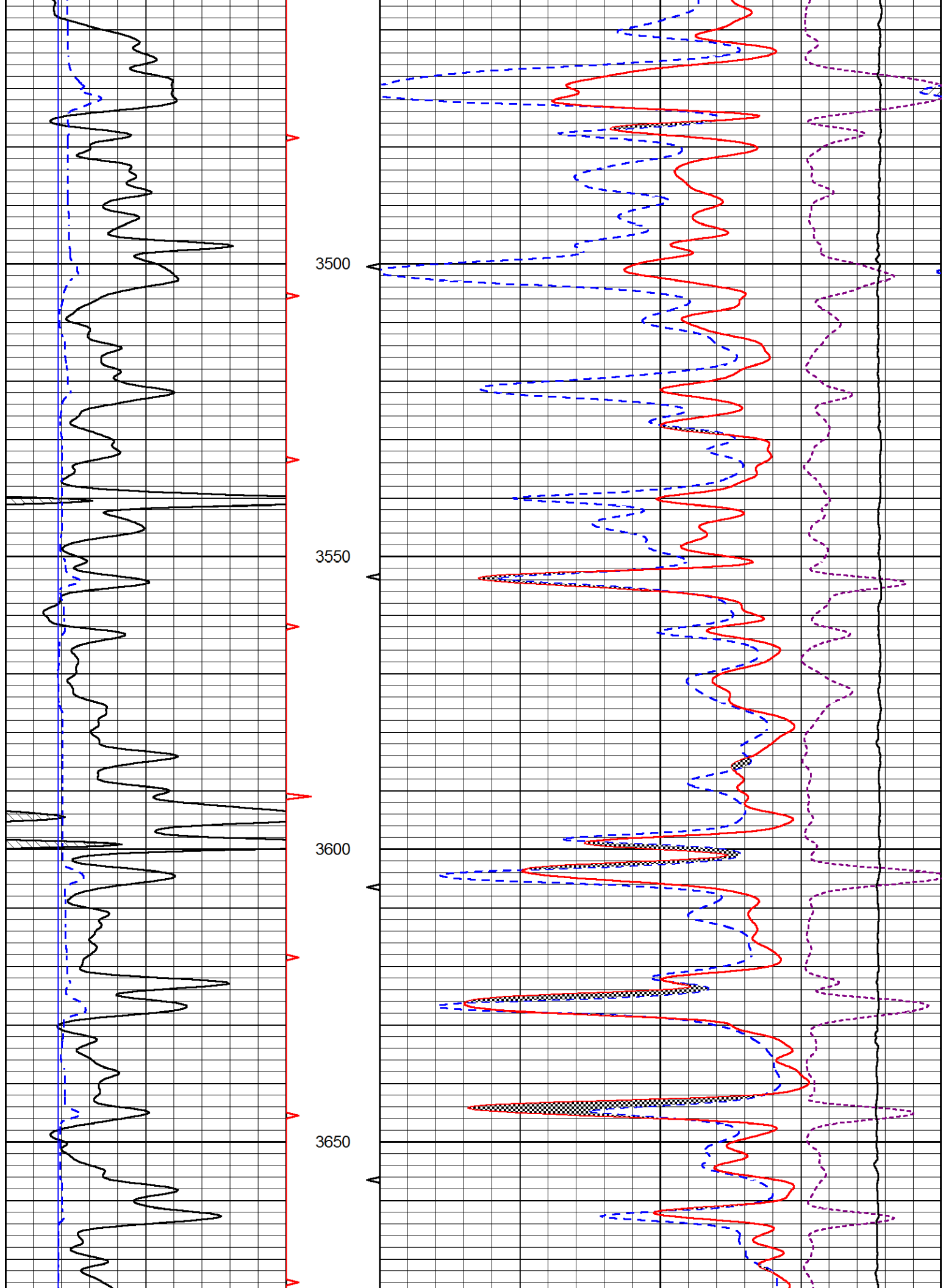
MAIN PASS

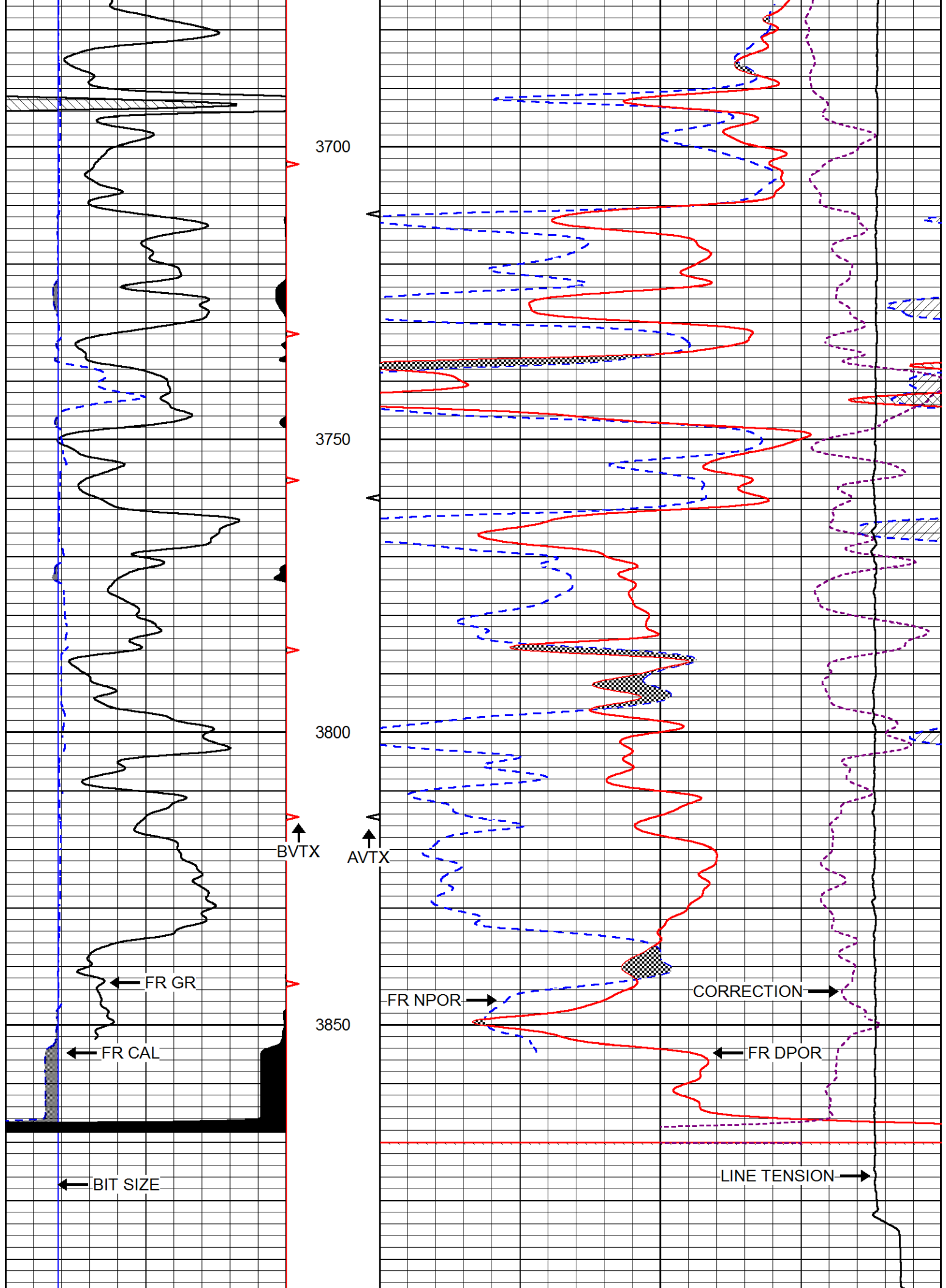
Database File	pioneerresources_maier_1.db
Dataset Pathname	stackmel/pass4.1
Presentation Format	cnldspec
Dataset Creation	Sat Oct 15 18:39:35 2016
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	30	COMPENSATED NEUTRON (pu)	-10
6	CALIPER (in)	16	30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
6	BIT SIZE (in)	16	15000	LINE TENSION (lb)	0
				-0.25	CORRECTION (g/cc) 0.25









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

30	COMPENSATED NEUTRON (pu)	-10
30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25

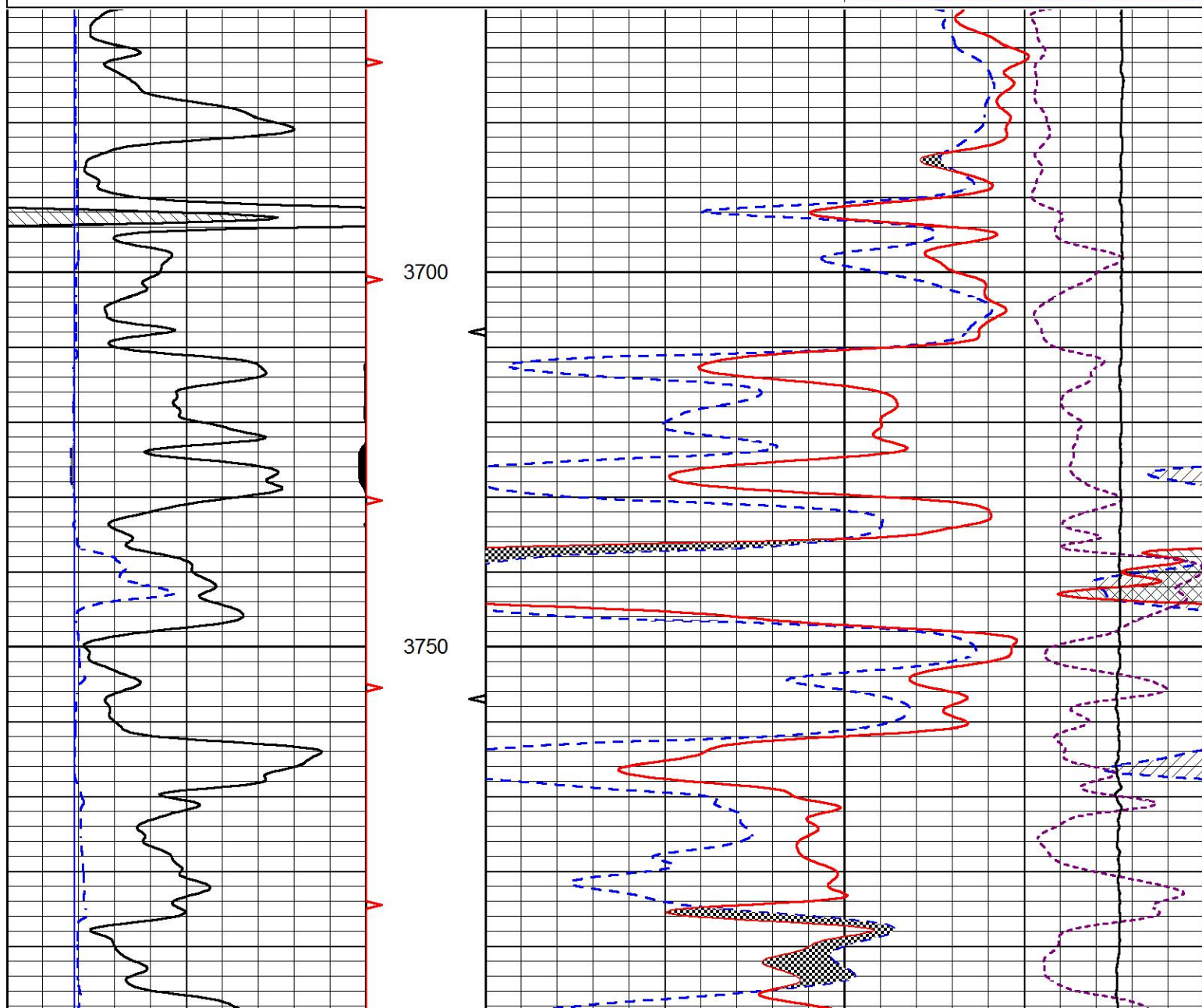


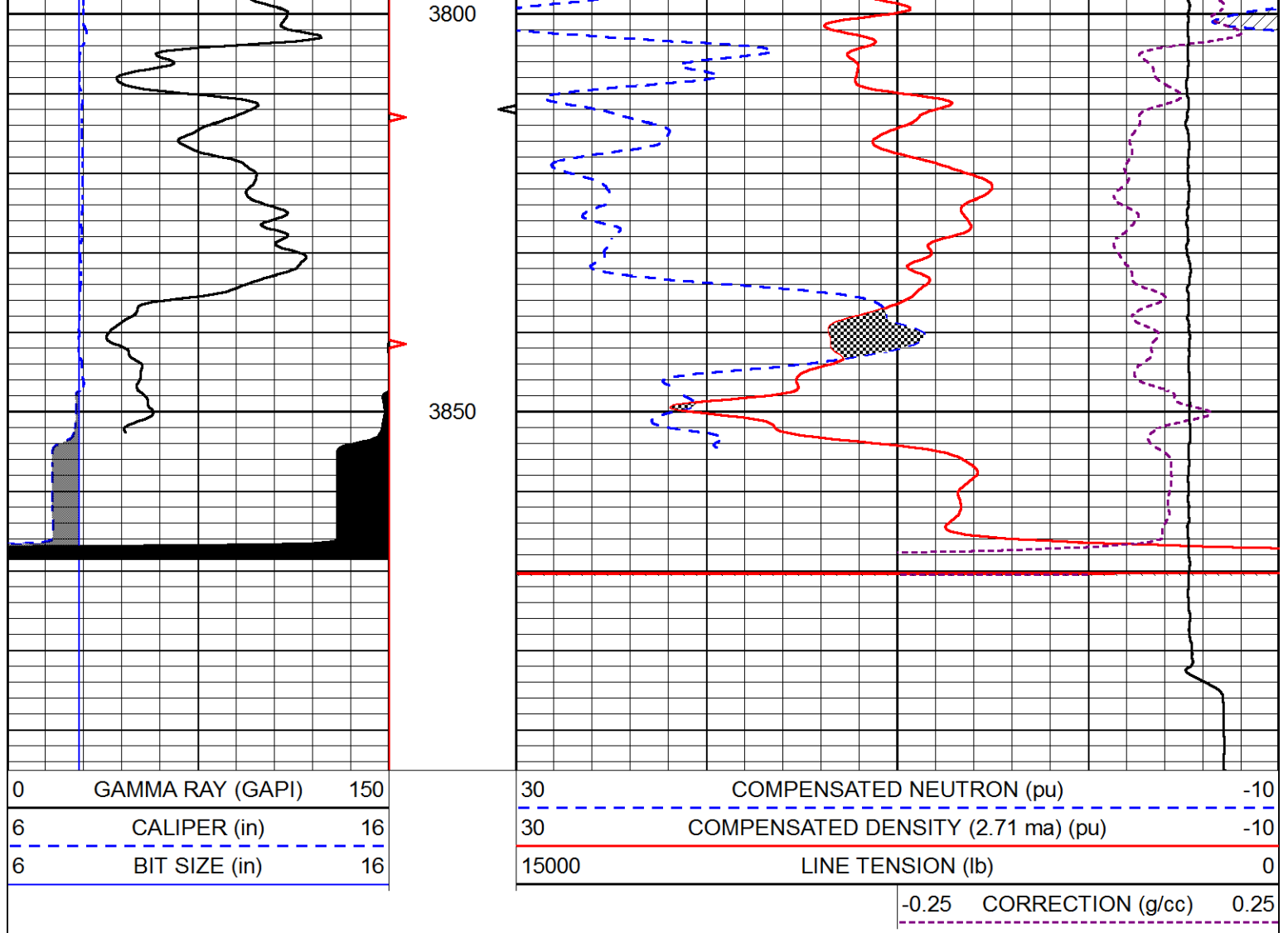
REPEAT SECTION

Database File pioneerresources_maier_1.db
Dataset Pathname stackmel/pass3.1
Presentation Format cndlspec
Dataset Creation Sat Oct 15 18:39:05 2016
Charted by Depth in Feet scaled 1:240

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

30	COMPENSATED NEUTRON (pu)	-10
30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25





Calibration Report							
Database File	pioneerresources_maier_1.db						
Dataset Pathname	stackmel/pass1						
Dataset Creation	Sat Oct 15 15:46:47 2016						
Dual Induction Calibration Report							
Serial-Model:				1987-M&W			
Calibration Performed:				Tue Aug 30 16:23:58 2016			
		Readings		References		Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.530	-36.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.440	-110.500
Compensated Density Calibration Report							
Serial-Model:				71-914-M&W			
Source / Verifier:				/			
Master Calibration Performed:				Fri Oct 07 08:39:26 2016			

	Density			Far Detector		Near Detector	
Magnesium	1.755	g/cc		4314.49		5307.52	cps
Aluminum	2.675	g/cc		822.19		3456.36	cps
Spine Angle = 75.49				Density/Spine Ratio = 0.537			
	Size			Reading			
Small Ring	4.00	in		1.16			
Large Ring	14.00	in		1.57			

Compensated Neutron Calibration Report

Serial Number:	tk10-MW
Tool Model:	M&W
Calibration Performed:	Sat Oct 1 10:01:53 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:	Fri Sep 30 22:06:47 2016	
Calibrator Value:	1000.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	6.2	cps
Sensitivity:	0.5200	GAPI/cps

	Company	PIONEER RESOURCES
	Well	MAIER NO. 1
	Field	WILDCAT
	County	ELLIS
	State	KANSAS