



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Canyon Operating LLC

Well Finley #19-1

Field

County Graham

State Kansas

Location: API #: 15-065-24221-00-00

Other Services

NE SE SE NW
2261 FNL & 2337 FWL

SEC 19 TWP 9S RGE 24W

DIL
MEL/BHCS

Permanent Datum Ground Level Elevation 2548
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

K.B. 2555
D.F.
G.L. 2548

Date 7/28/2022

Run Number One

Type Log CNL/CDL

Depth Driller 4210

Depth Logger 4208

Bottom Logged Interval 4180

Top Logged Interval 3500

Type Fluid In Hole Chemical

Salinity, PPM CL 4400

Density 9.1

Level 340

Max. Rec. Temp. F 118

Operating Rig Time 4 Hours

Equipment -- Location P-24 Hays

Recorded By T. Martin

Witnessed By Clayton Erickson

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

One 12.25 00 219 8.625 23 00 219

Two 7.875 219 TD

<<< Fold Here >>>

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.

St Peter, KS, 6 N to K Rd,
1.5 E, S & E into 1.25 mi

Log Measured From: Kelly Bushing

7 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

Engineer: T. Martin
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Clayton Erickson
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\canyon_finley #19-1.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	118	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	50	70		4208

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



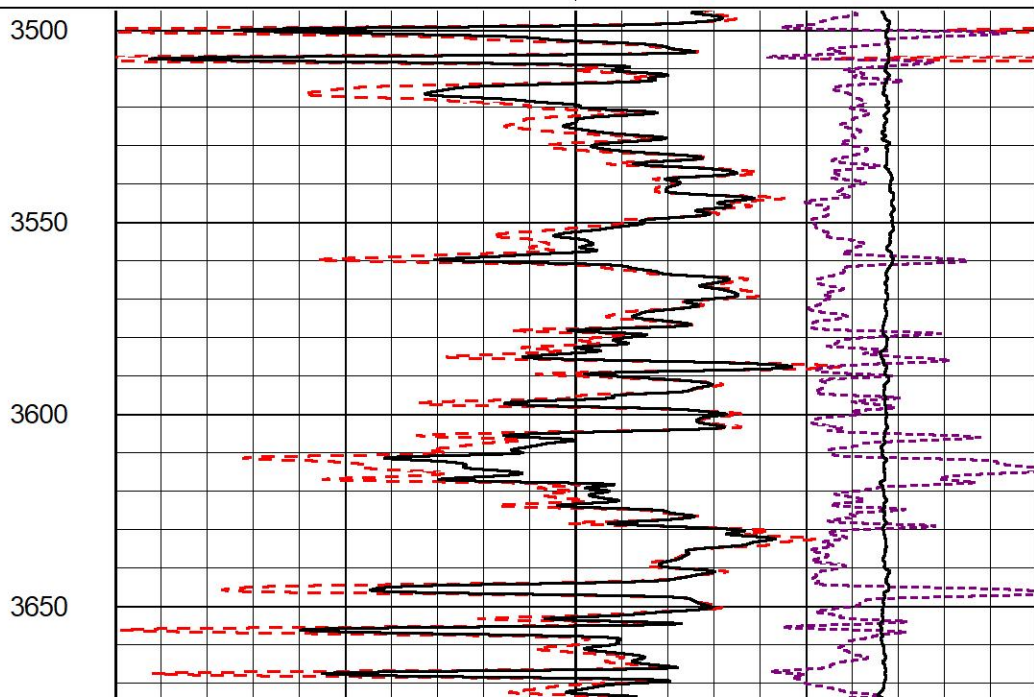
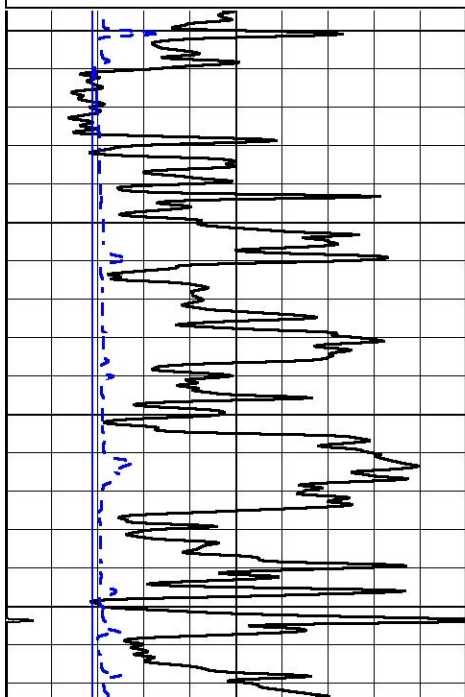
2" SCALE BULK DENSITY

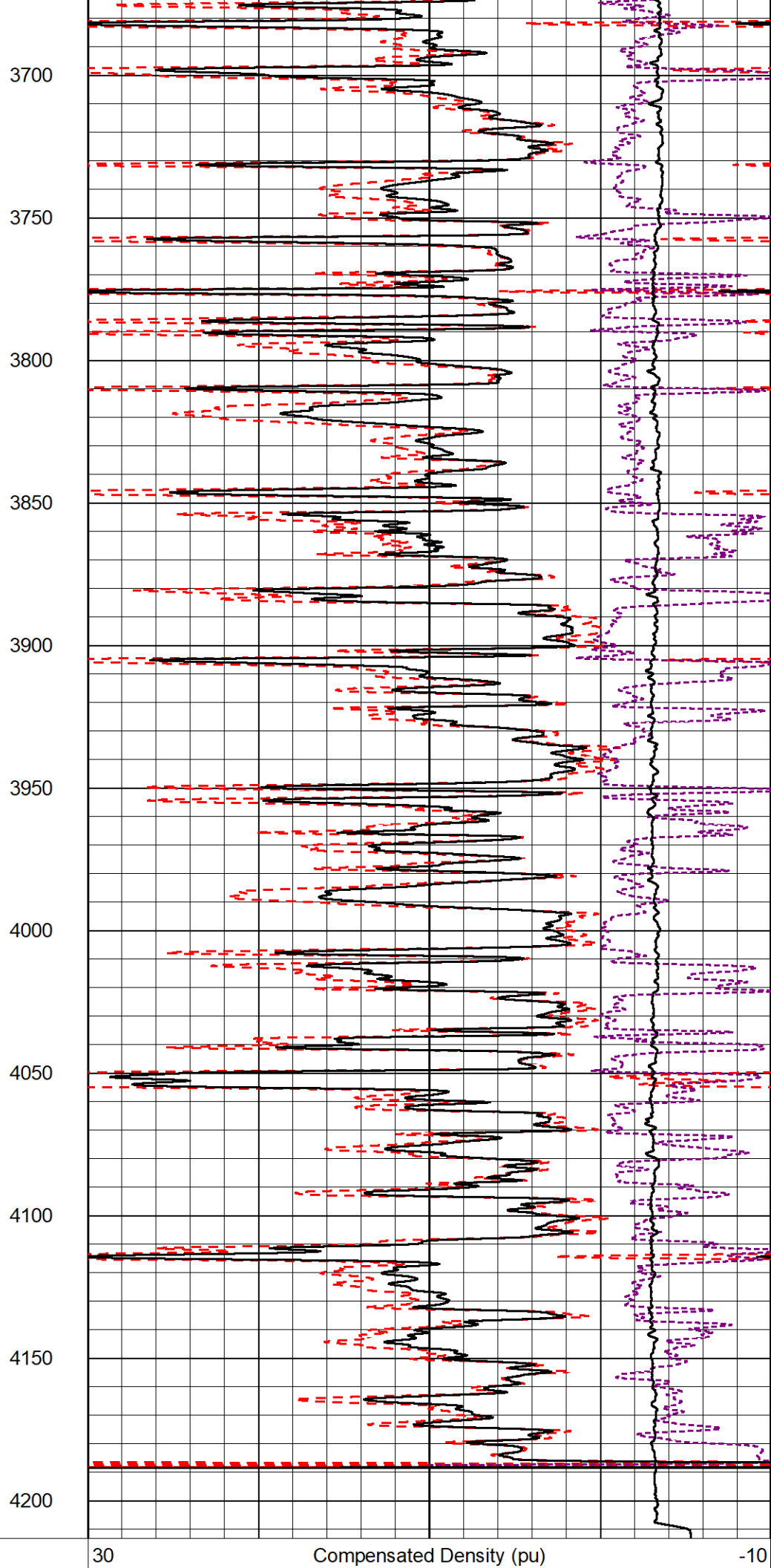
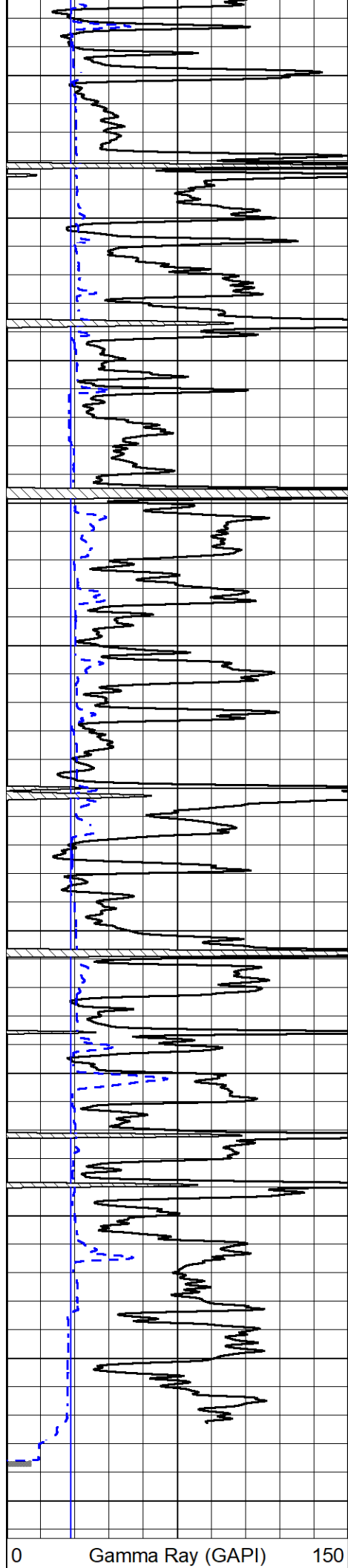
MAIN PASS

Database File canyon_finley #19-1.db
Dataset Pathname StkMI/pass3.3
Presentation Format _cdl
Dataset Creation Fri Jul 29 00:21:40 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





6	Caliper (in)	16

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



MIDWEST WIRELINE

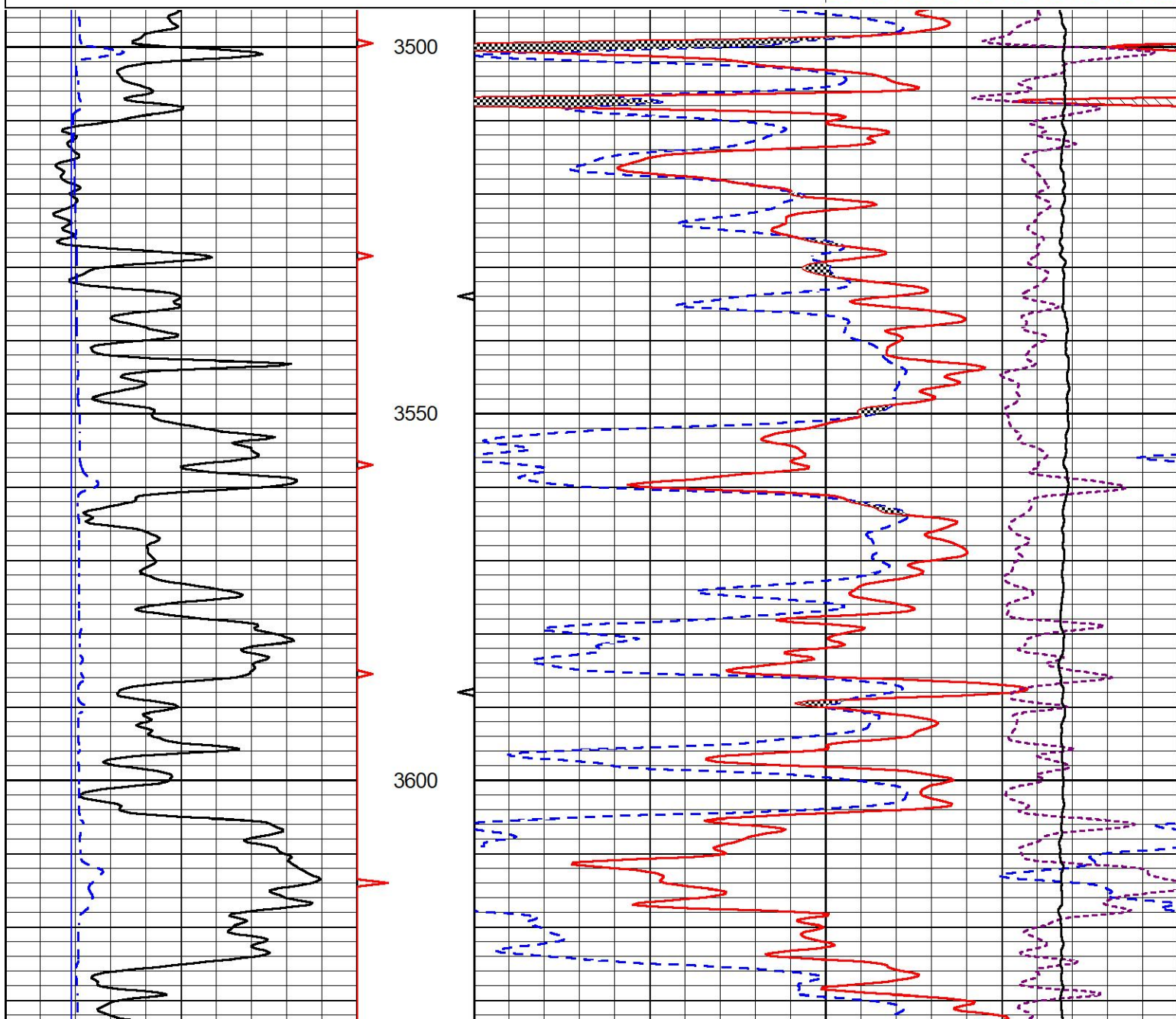
DETAIL SECTION

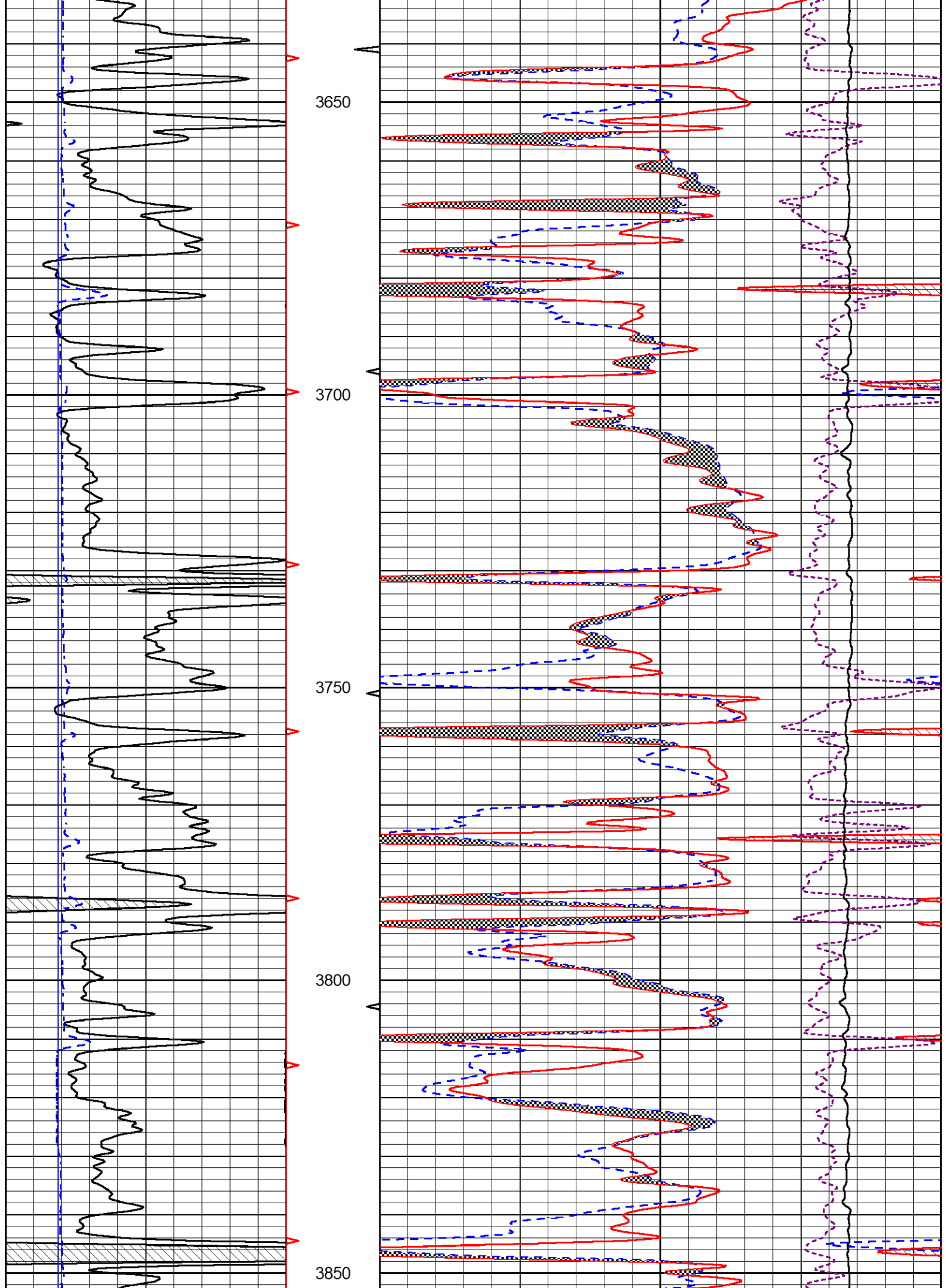
MAIN PASS

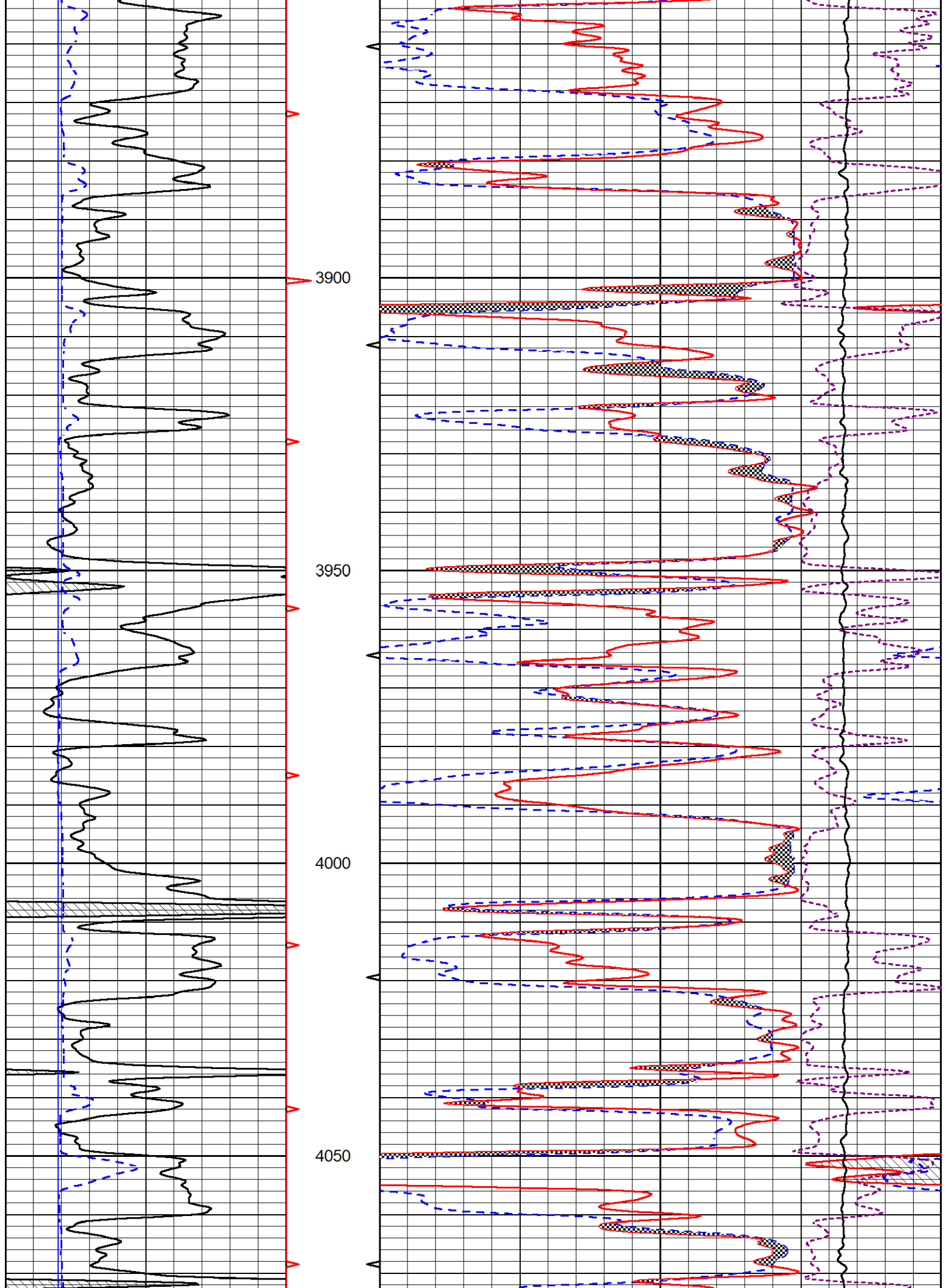
Database File canyon_finley #19-1.db
Dataset Pathname StkMI/pass3.1
Presentation Format _cndlspec
Dataset Creation Fri Jul 29 00:48:12 2022
Charted by Depth in Feet scaled 1:240

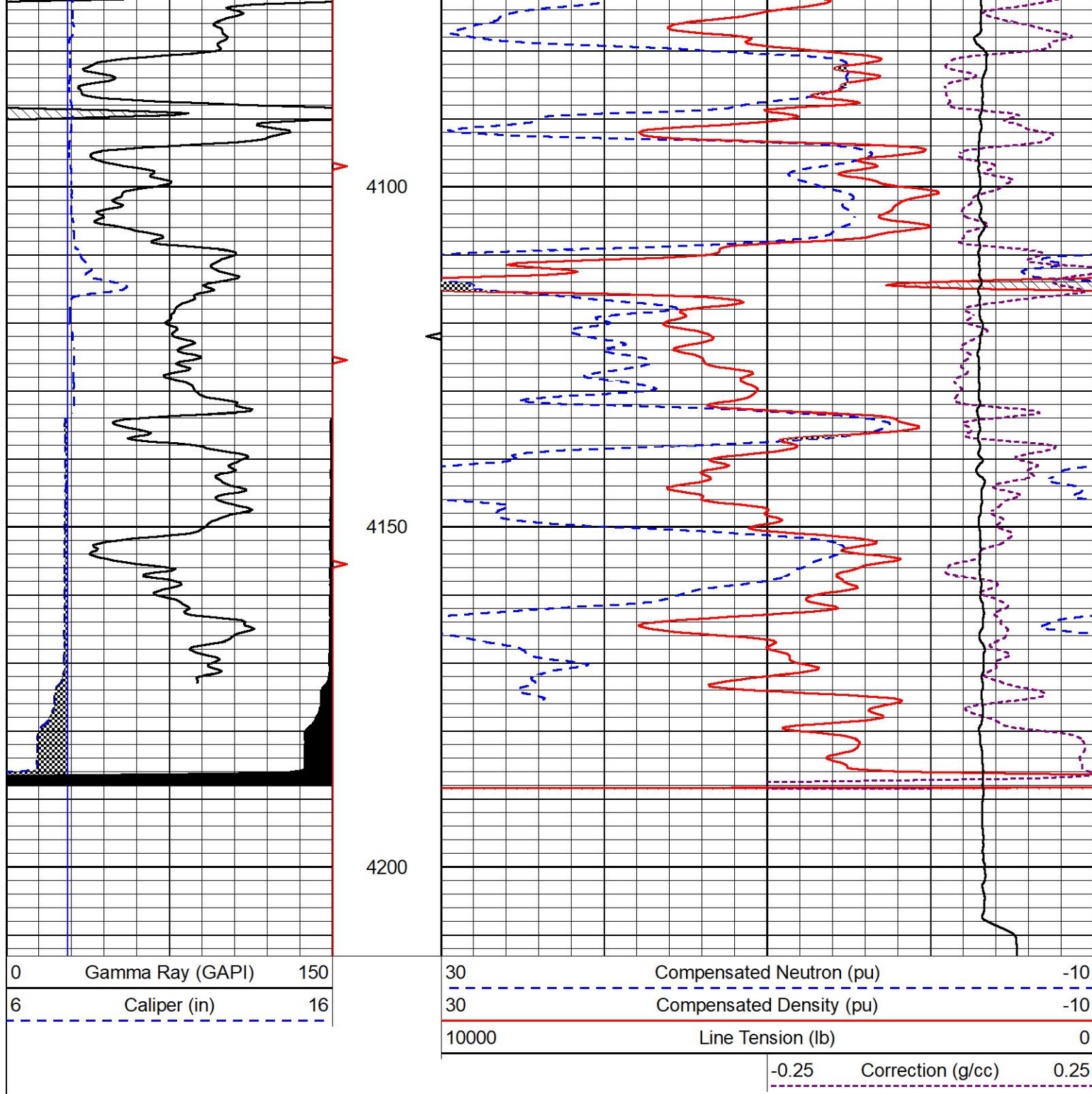
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

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









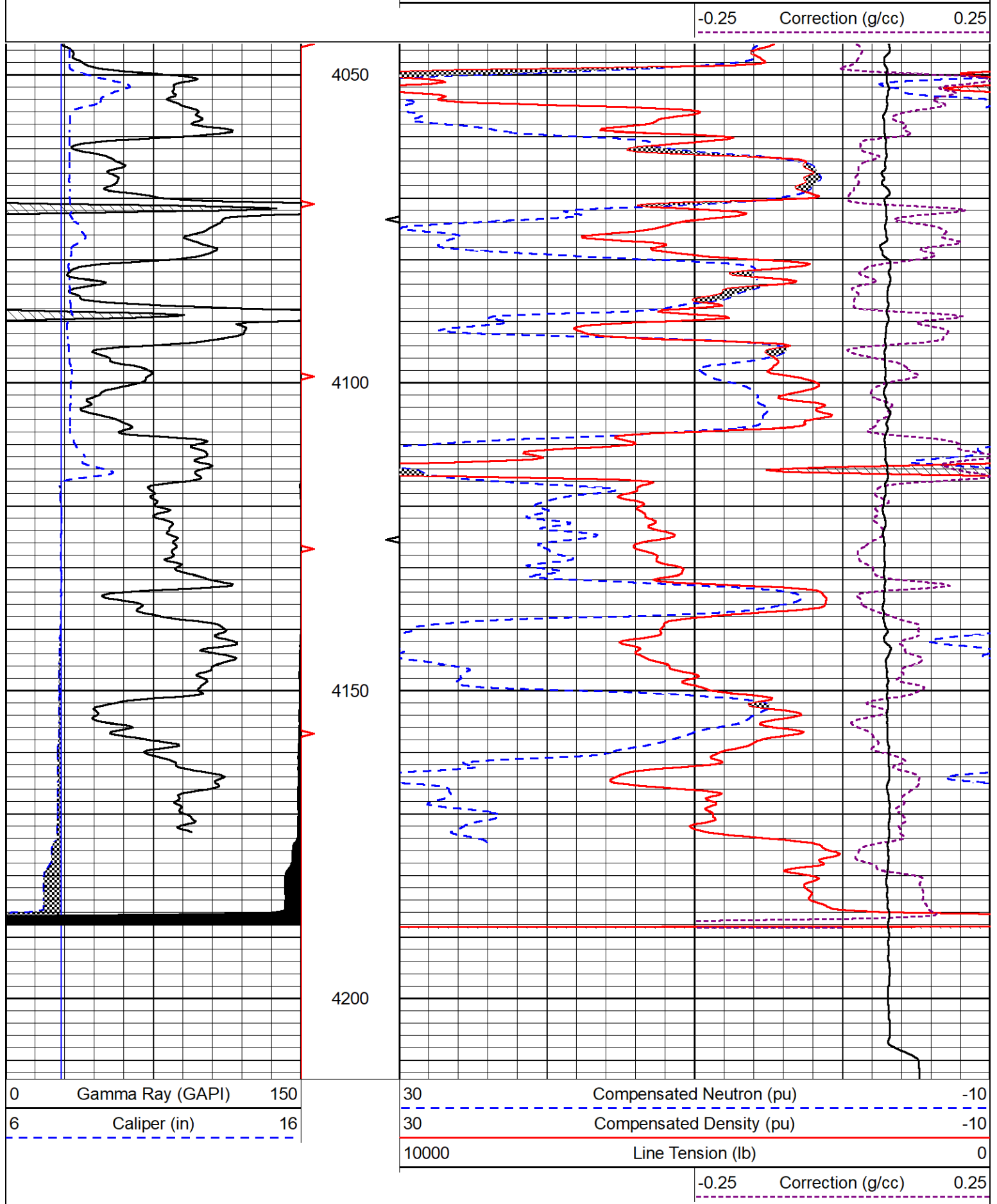
REPEAT SECTION

REPEAT PASS

Database File canyon_finley #19-1.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Fri Jul 29 00:25:24 2022
 Charted by Depth in Feet scaled 1:240

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

30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
10000	Line Tension (lb)	0



Calibration Report

Database File canyon_finley #19-1.db
Dataset Pathname StkMI/pass3.1
Dataset Creation Fri Jul 29 00:48:12 2022

Dual Induction Calibration Report

Serial-Model:
Surface Cal Performed:501 HT-M&W
Sat Apr 30 02:12:10 2022

		Readings		References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	83.639	487.104		0.000	183.000	mmho/m	0.455	-39.000
Medium	113.335	1585.690		0.000	442.000	mmho/m	0.305	-33.000

Microlog Calibration Report

Serial-Model:
Performed:402-PSIML
Sun Jul 17 13:11:21 2022

		Readings		References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0000	1.0000		0.0000	1.0000	Ohm-m	24500.0000	0.0000
Inverse	0.0000	1.0000		0.0000	1.0000	Ohm-m	28500.0000	0.3000
Caliper	1.0052	1.0858		5.0000	16.5000	in	65.0000	-59.8000

Compensated Density Calibration Report

Serial-Model:
Source #:
Master Calibration Performed:302-02-M&W
20762B
Wed Jun 22 01:19:51 2022

Master Calibration

	Density			Far Detector		Near Detector
Magnesium	1.755	g/cc		4422.04		6163.44 cps
Aluminum	2.665	g/cc		835.14		3912.91 cps
Spine Angle = 74.75				Density/Spine Ratio = 0.527		
	Size			Reading		
Small Ring	8.00	in		0.53		
Large Ring	30.00	in		0.60		

Compensated Neutron Calibration Report

Serial Number:
Tool Model:207-MW
M&W

CALIBRATION

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

PRE-SURVEY VERIFICATION

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

2)	Short Space Long Space	cps cps	pu
3)	Short Space Long Space	cps 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

	Company	Canyon Operating LLC
	Well	Finley #19-1
	Field	
	County	Graham
	State	Kansas