



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Canyon Operating, LLC
Well Rush Trust #17-1
Field High Hill
County Graham State Kansas

Location: API #: 15-065-24205-00-00

Other Services

Permanent Datum E2 W2 NE SW
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
SEC 17 TWP 10S RGE 24W

Elevation 2467

K.B. 2474
D.F. 2467
G.L. 2467

Date 5/25/2022

Run Number One

Type Log CNL/CDL

Depth Driller 4120

Depth Logger 4122

Bottom Logged Interval 4093

Top Logged Interval 3400

Type Fluid In Hole Chemical

Salinity, PPM CL 5000

Density 9.2

Level Full

Max. Rec. Temp. F 117

Operating Rig Time 4 Hours

Equipment -- Location P-108 HAYS

Recorded By D. Schmidt

Witnessed By Macklin Armstrong

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

One 12.25 0 221 8.625 23 0 221

Two 7.875 221 TD

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline 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,
3 East on Cemetery Rd, 1 South, 1/2 East,
North into

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: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Macklin Armstrong
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\canyon_rush trust 17-1.db
Dataset field/well/stkml/pass3.11/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 117	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 570	degF 50	Off	ft 4122

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



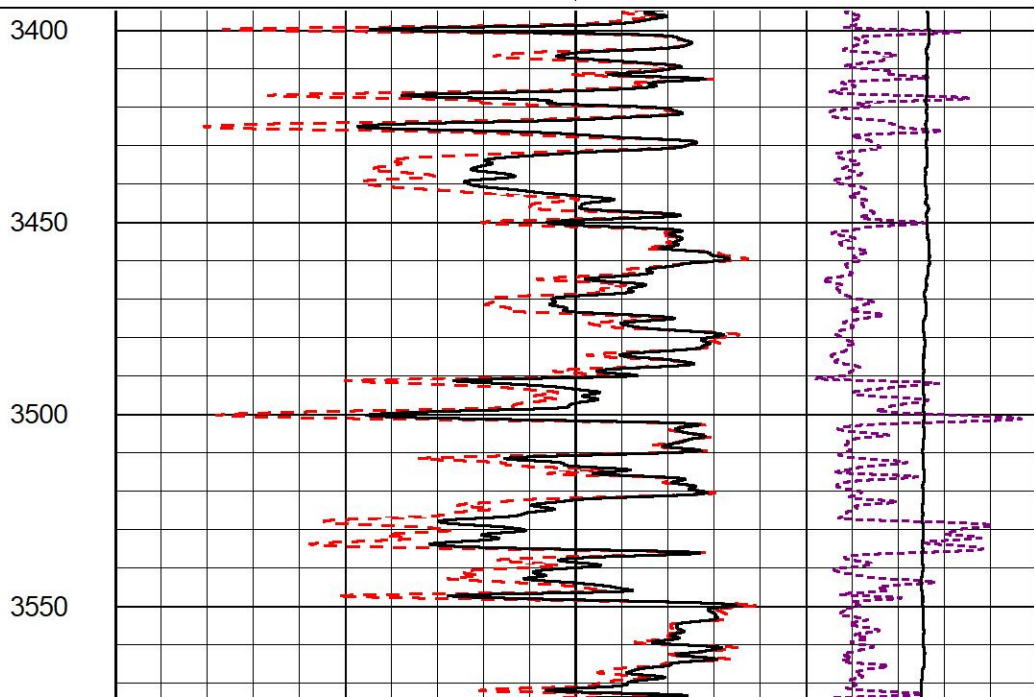
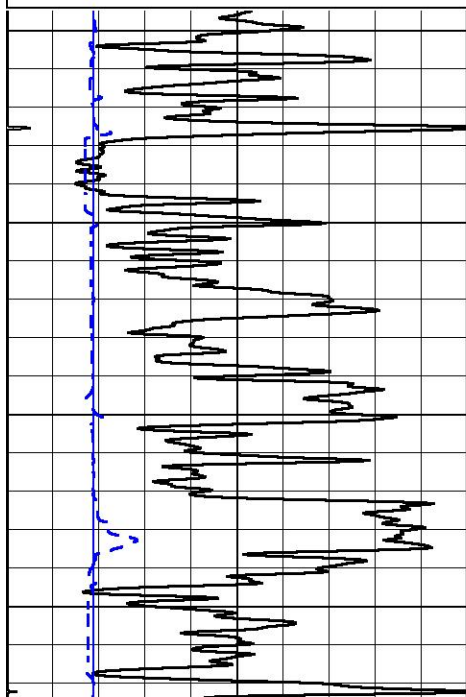
2" SCALE BULK DENSITY

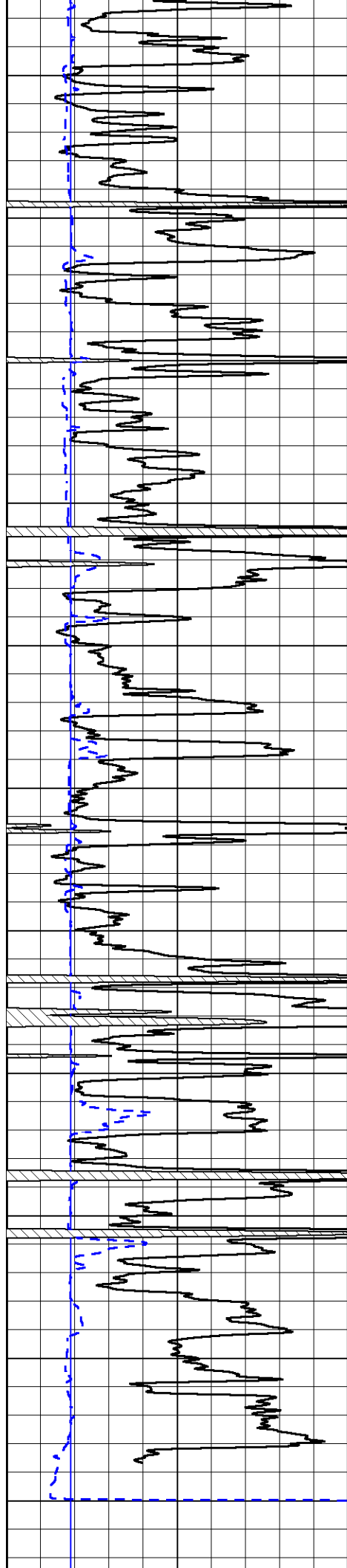
MAIN PASS

Database File canyon_rush trust 17-1.db
Dataset Pathname stkml/pass3.2
Presentation Format _cdl
Dataset Creation Wed May 25 11:54:31 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
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25





3600

3650

3700

3750

3800

3850

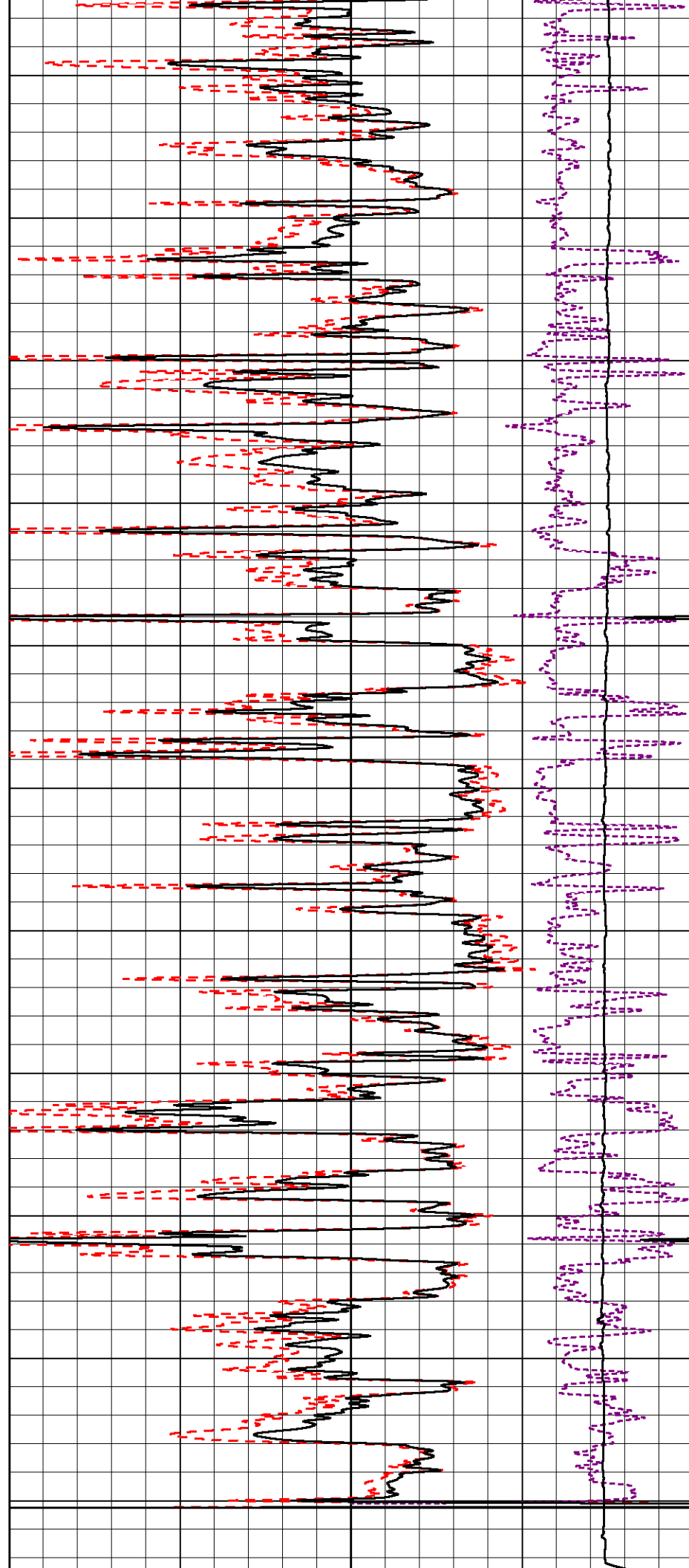
3900

3950

4000

4050

4100



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



MIDWEST WIRELINE

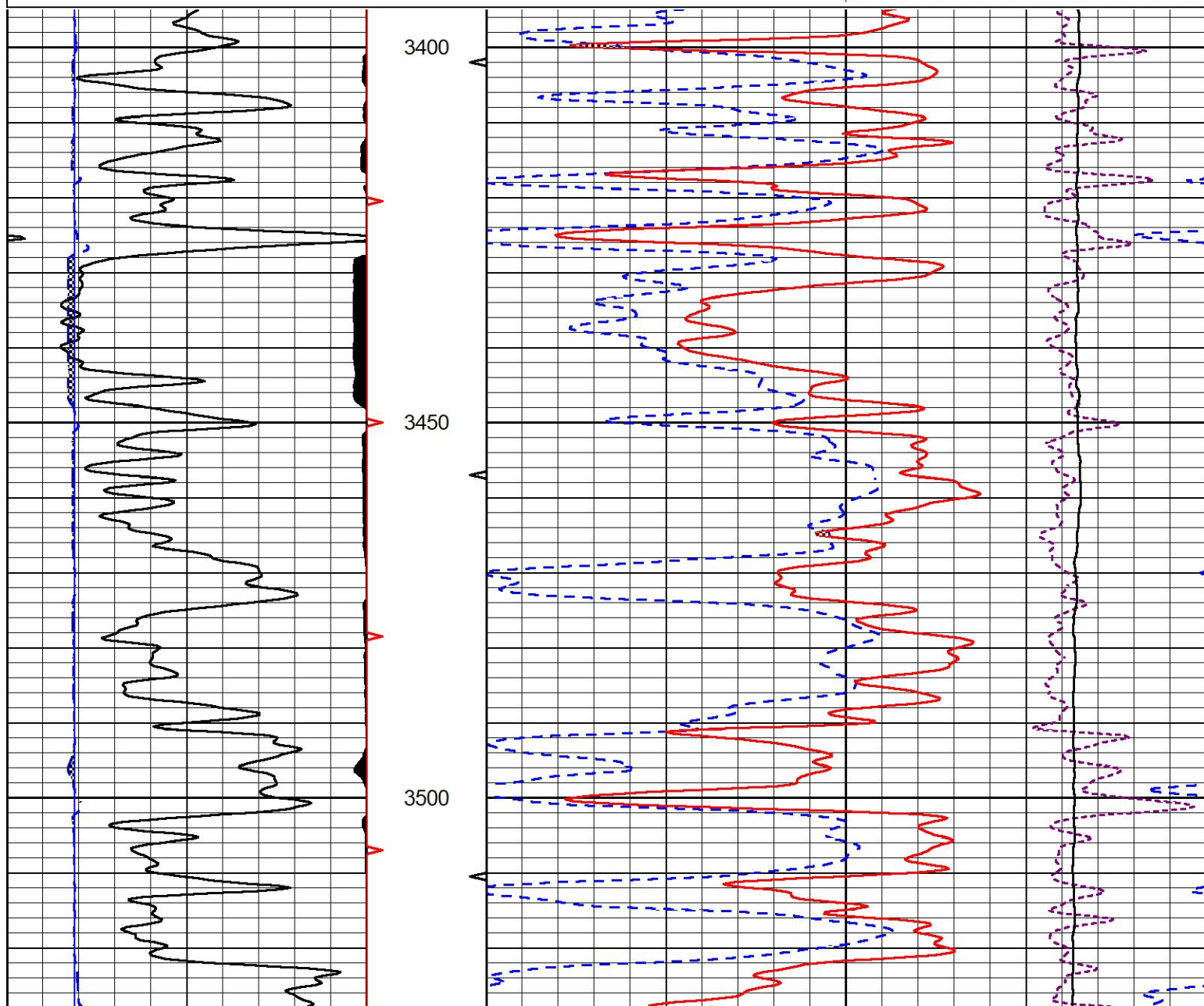
DETAIL SECTION

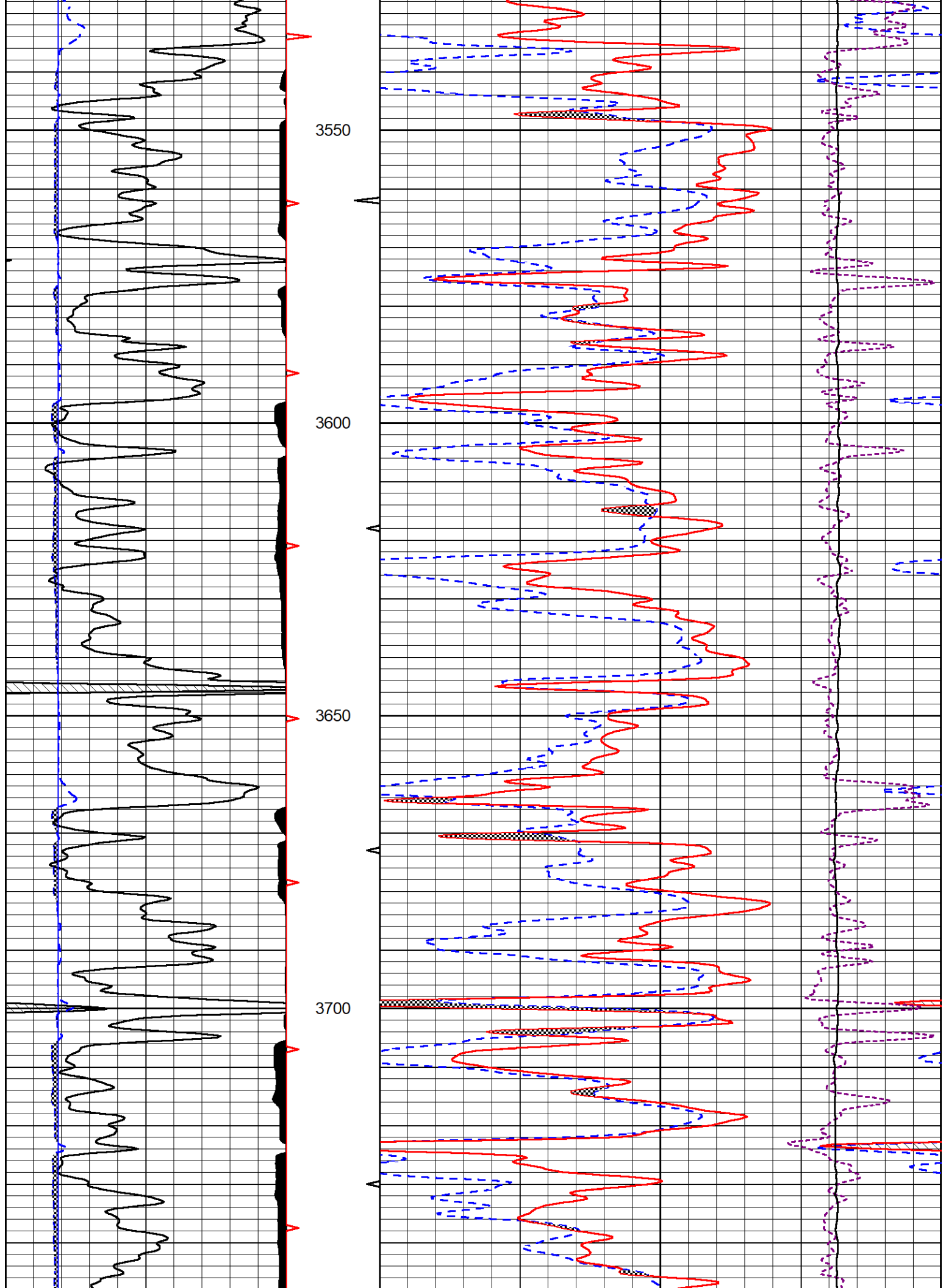
MAIN PASS

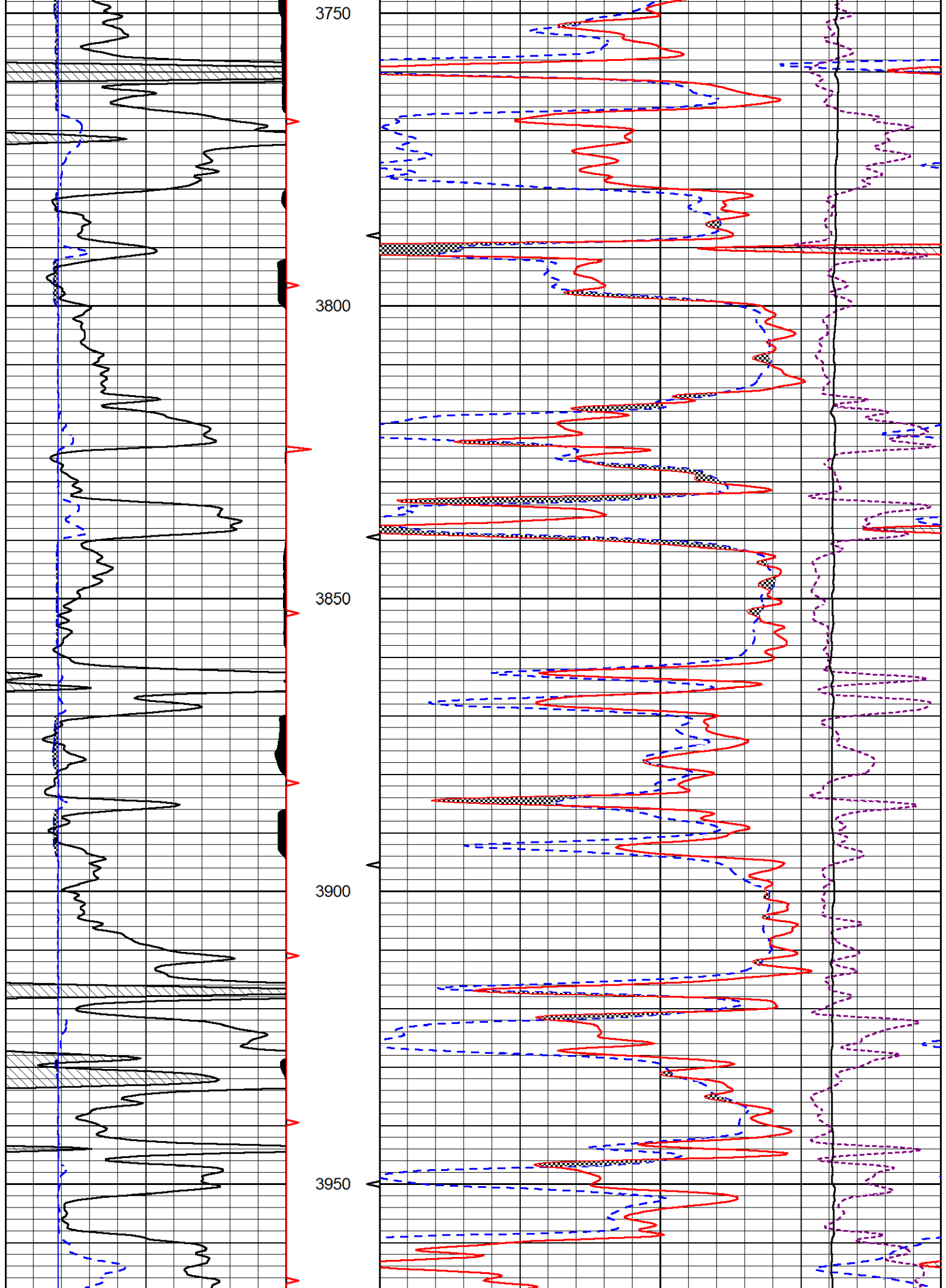
Database File canyon_rush trust 17-1.db
Dataset Pathname stkml/pass3.11
Presentation Format _CNDLS~1
Dataset Creation Wed May 25 11:50:17 2022
Charted by Depth in Feet scaled 1:240

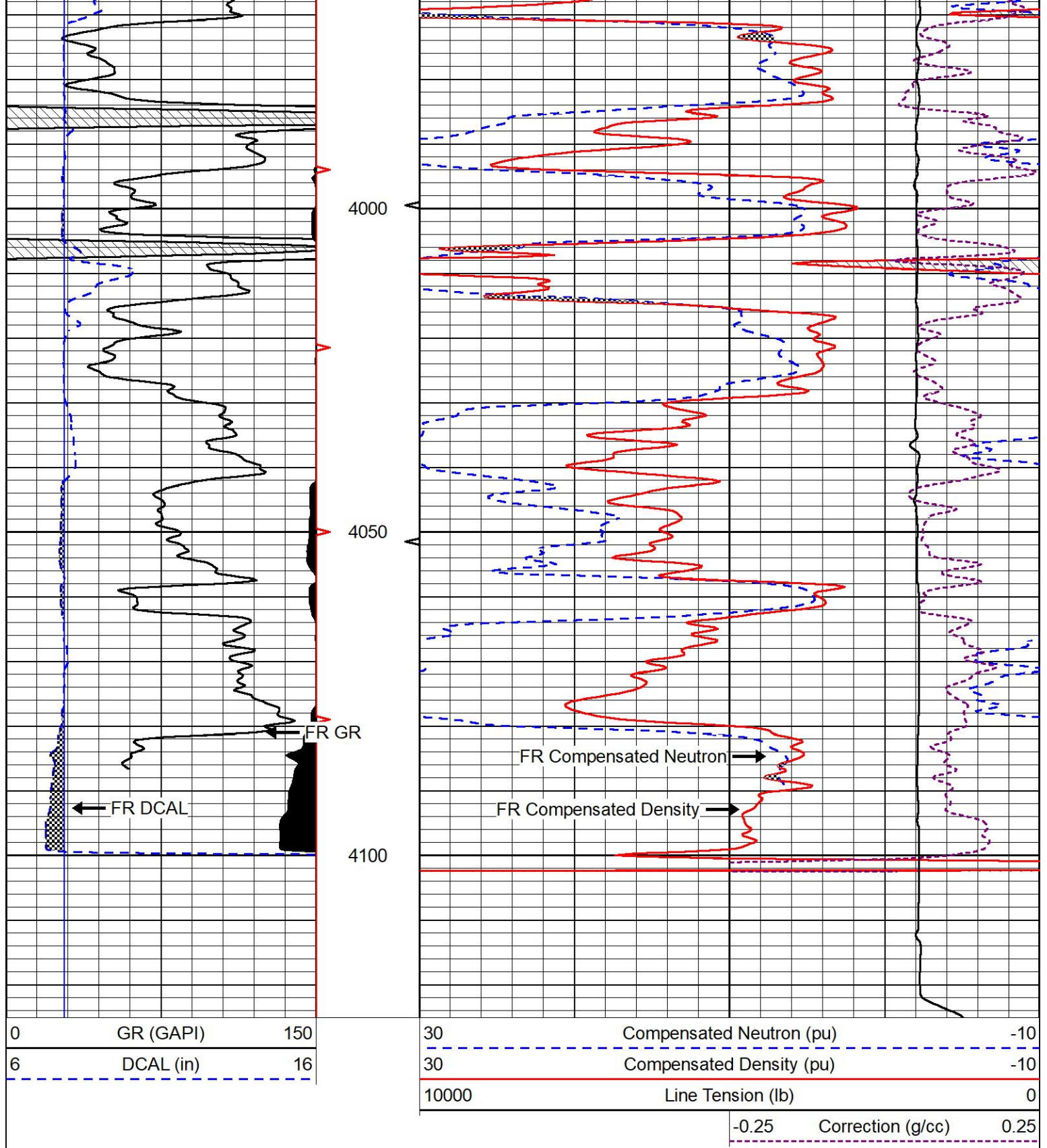
0	GR (GAPI)	150
6	DCAL (in)	16

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







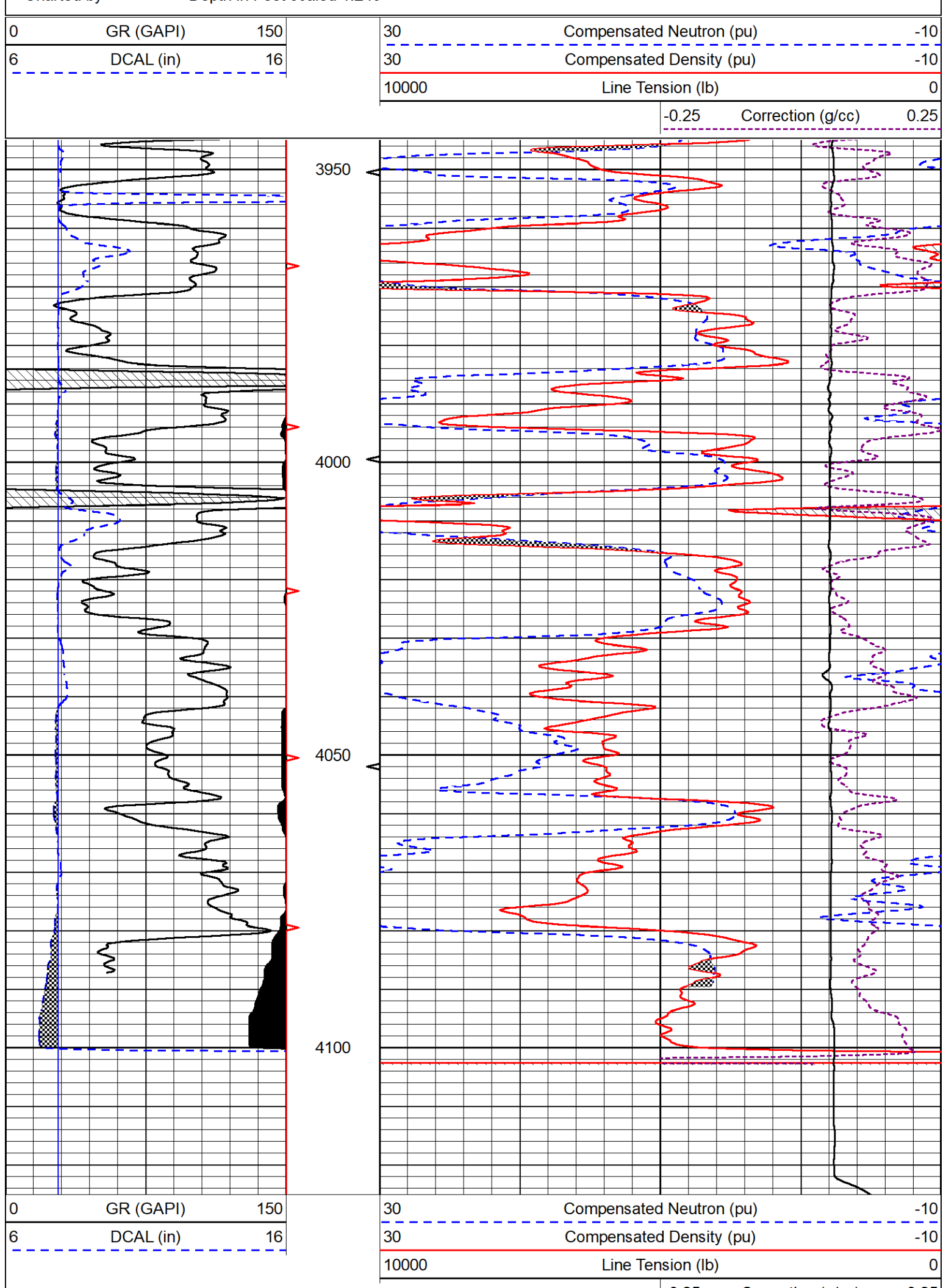


MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File canyon_rush trust 17-1.db
 Dataset Pathname stkml/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Wed May 25 11:38:42 2022
 Charted by Depth in Feet scaled 1:240



Calibration Report	
Database File	canyon_rush trust 17-1.db
Dataset Pathname	stkml/pass3.11
Dataset Creation	Wed May 25 11:50:17 2022

Dual Induction Calibration Report

Serial-Model:	504 HT-M&W
Surface Cal Performed:	Thu Dec 16 22:32:49 2021

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-18.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-45.500

Microlog Calibration Report

Serial-Model:	402-PSI STKBL ML
Performed:	Mon May 23 16:31:54 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	14000.0000	-0.9000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	12500.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1520	-131.3550

Compensated Density Calibration Report

Serial-Model:	303-03-M&W
Source #:	21170B
Master Calibration Performed:	Thu Dec 16 23:28:34 2021

Master Calibration						
	Density			Far Detector	Near Detector	
Magnesium	1.755	g/cc		3841.78	5151.73	cps
Aluminum	2.670	g/cc		700.98	3068.49	cps
Spine Angle = 73.06			Density/Spine Ratio = 0.515			
	Size			Reading		
Small Ring	4.00	in		1.17		
Large Ring	14.00	in		1.03		

Compensated Neutron Calibration Report

Serial-Model:	210-M&W
Source #:	N-1238
Master Calibration Performed:	Fri Dec 3 09:16:24 2021

Master 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

Gamma Ray Calibration Report					
Serial Number:	103				
Tool Model:	M&W				
Performed:	Fri Dec 3 12:13:24 2021				
Calibrator Value:	500.0	GAPI			
Background Reading:	28.0	cps			
Calibrator Reading:	986.0	cps			
Sensitivity:	0.5700	GAPI/cps			

 MIDWEST WIRELINE	Company	Canyon Operating, LLC
	Well	Rush Trust #17-1
	Field	High Hill
	County	Graham
	State	Kansas