



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Canyon Operating LLC		Company Canyon Operating LLC	
Well	Finley #19-1	Well	Finley #19-1
Field		Field	
County	Graham	County	Graham
State	Kansas	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		CNL/CDL DIL/BHCS	
Permanent Datum	Ground Level	Elevation	2548
Log Measured From	Kelly Bushing	K.B.	2555
Drilling Measured From	Kelly Bushing	D.F.	
		G.L.	2548
Date	7/28/2022		
Run Number	One		
Depth Driller	4210		
Depth Logger	4208		
Bottom Logged Interval	4207		
Top Log Interval	3500		
Casing Driller	8.625 @ 219		
Casing Logger	218		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4400		
Density / Viscosity	9.1	82	
pH / Fluid Loss	10.5	8.0	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.75 @ 72		
Rmf @ Meas. Temp	0.56 @ 72		
Rmc @ Meas. Temp	1.01 @ 72		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.46 @ 118		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	118		
Equipment Number	P-24		
Location	Hays		
Recorded By	T. Martin		
Witnessed By	Clayton Erickson		

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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, 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



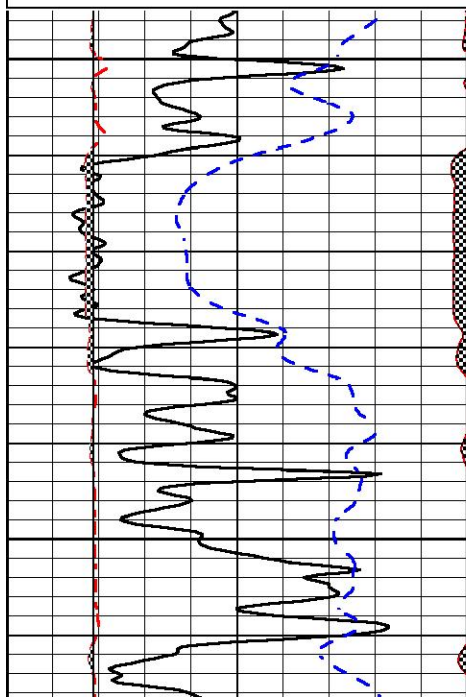
DETAIL SECTION

MAIN PASS

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

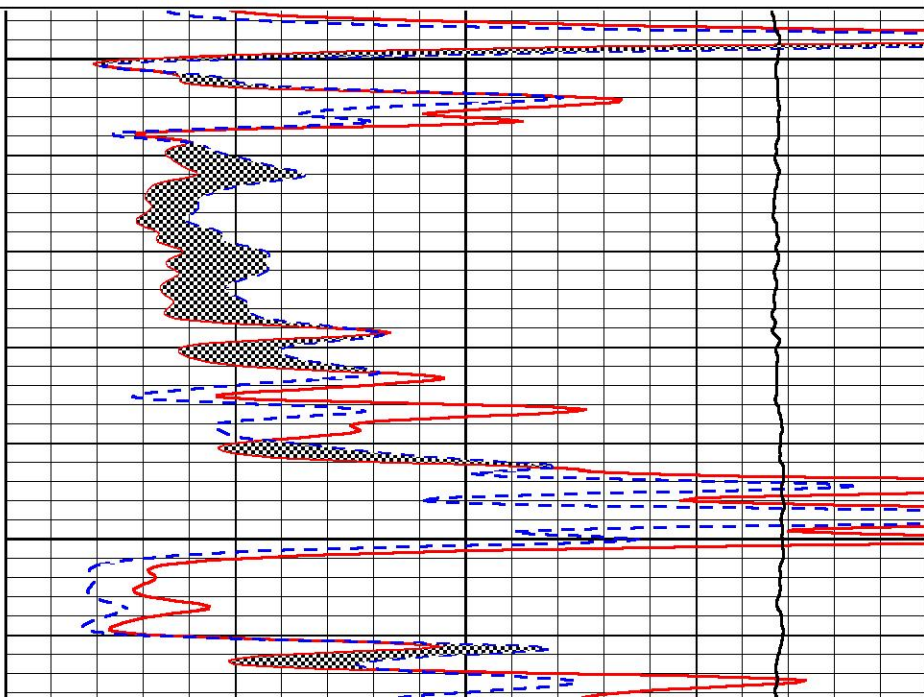
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	mcal (in)	7.875
-200	sp (mV)	0

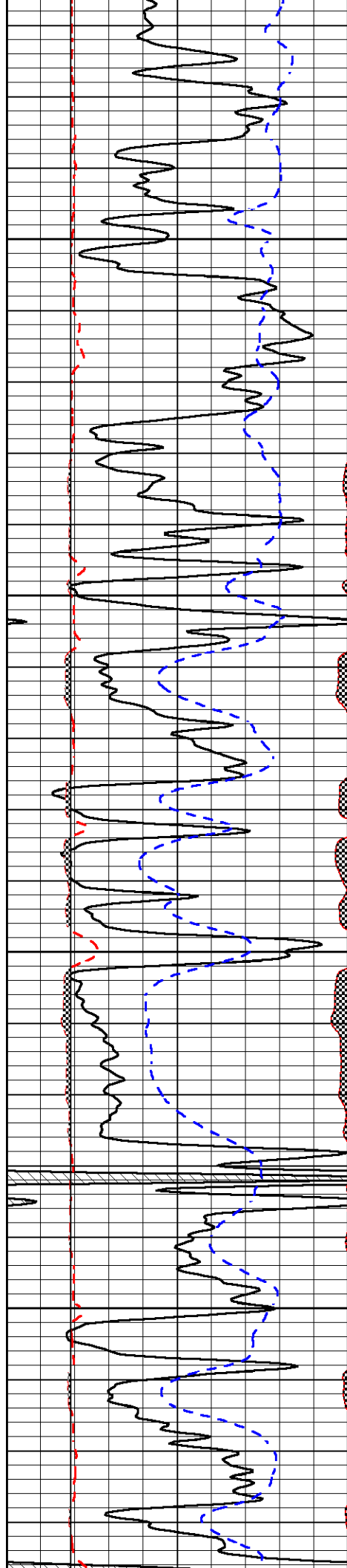
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3500

3550



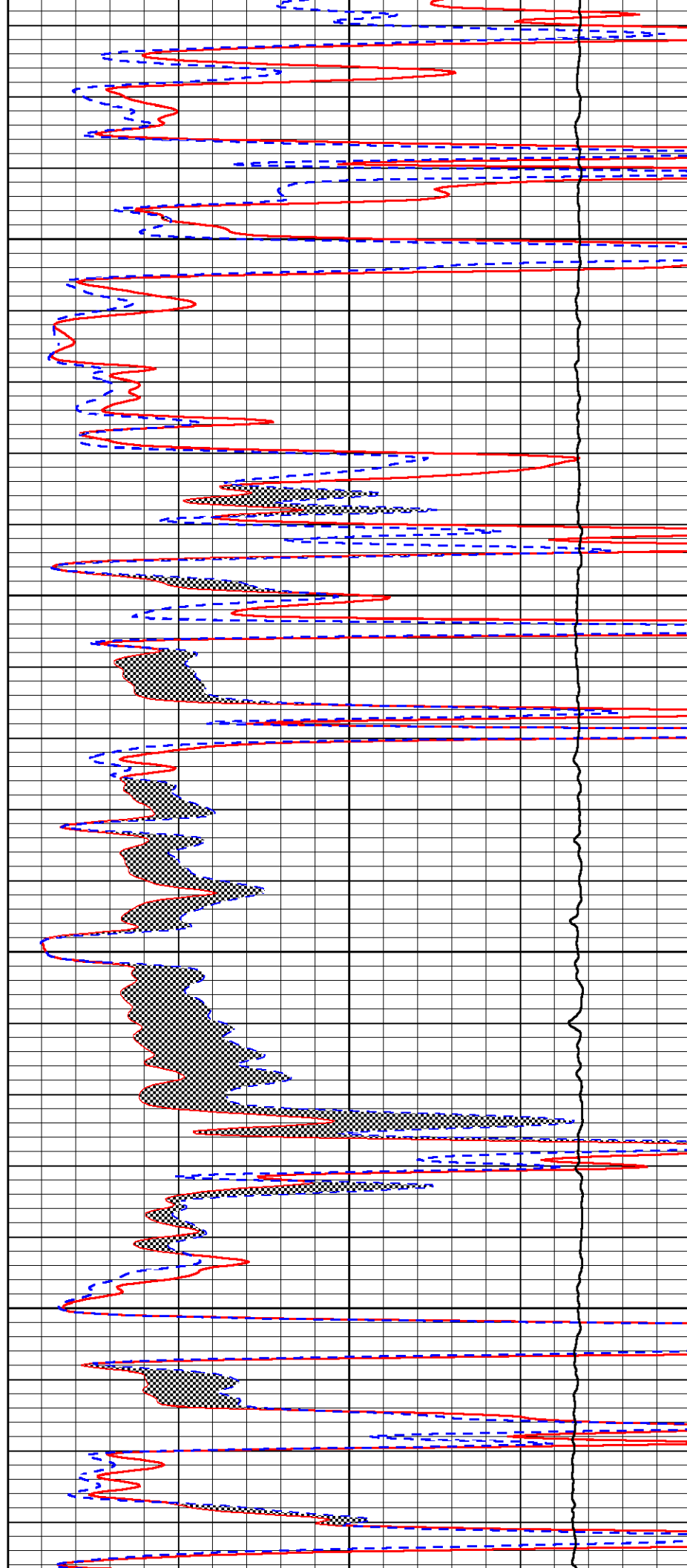


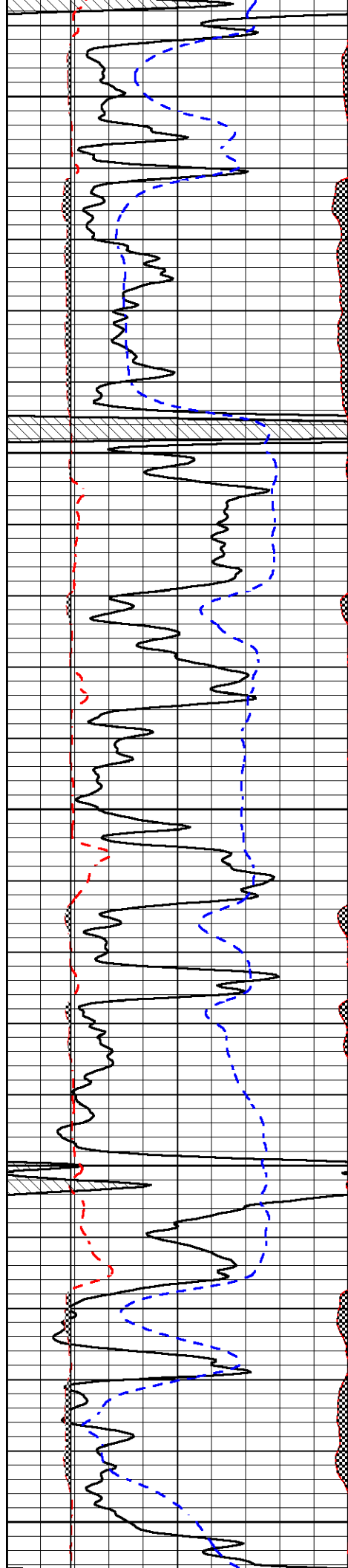
3600

3650

3700

3750





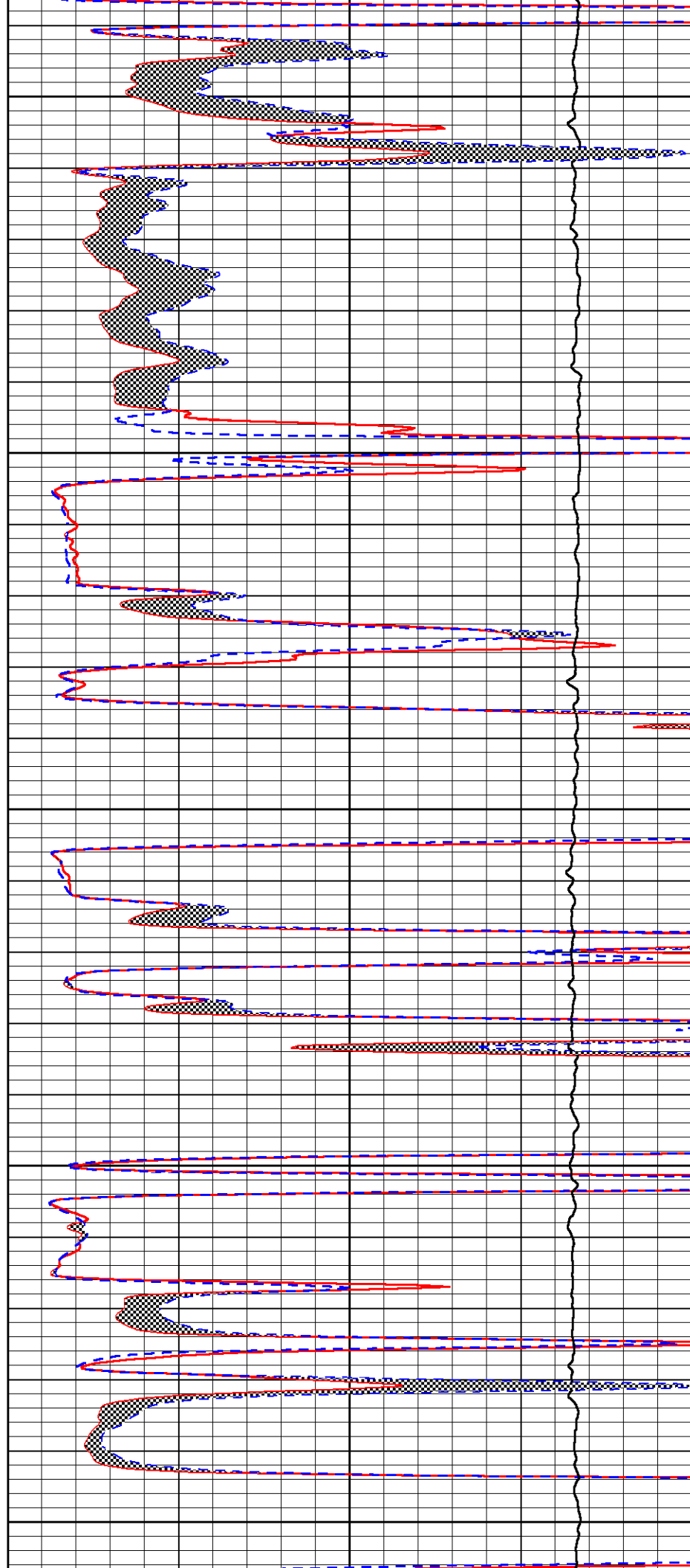
3800

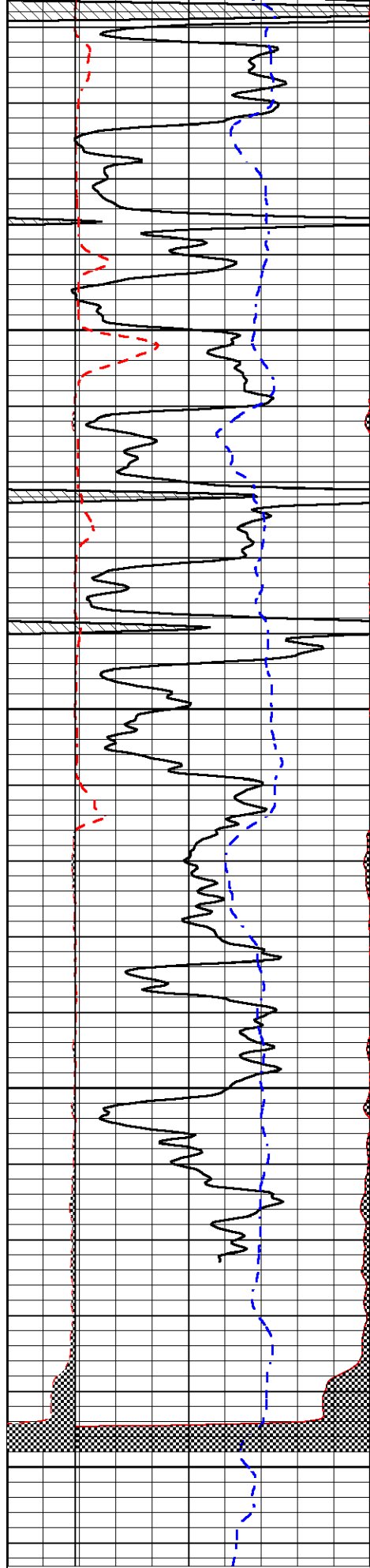
3850

3900

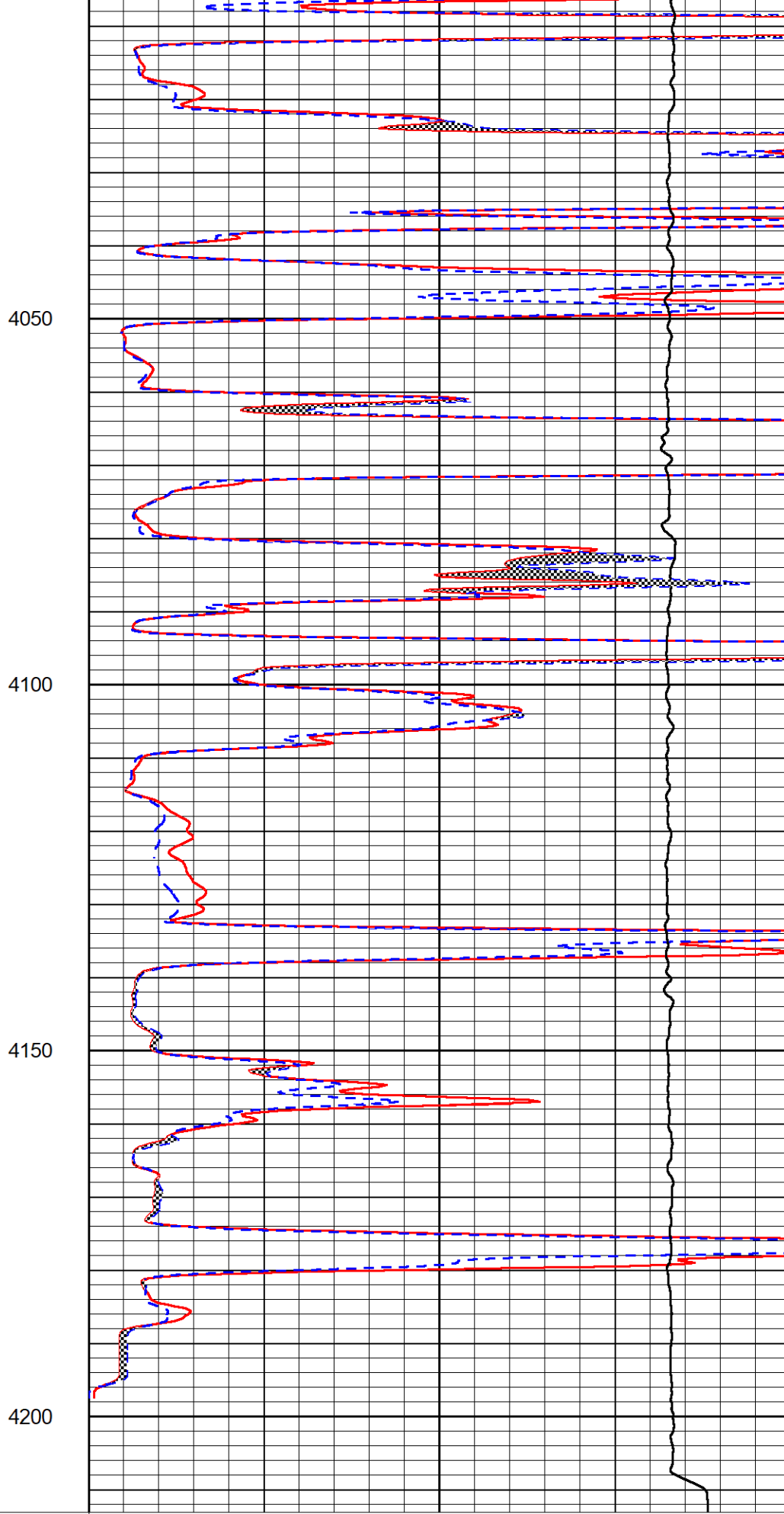
3950

4000





0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	mcal (in)	7.875



0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

-200 sp (mV) 0



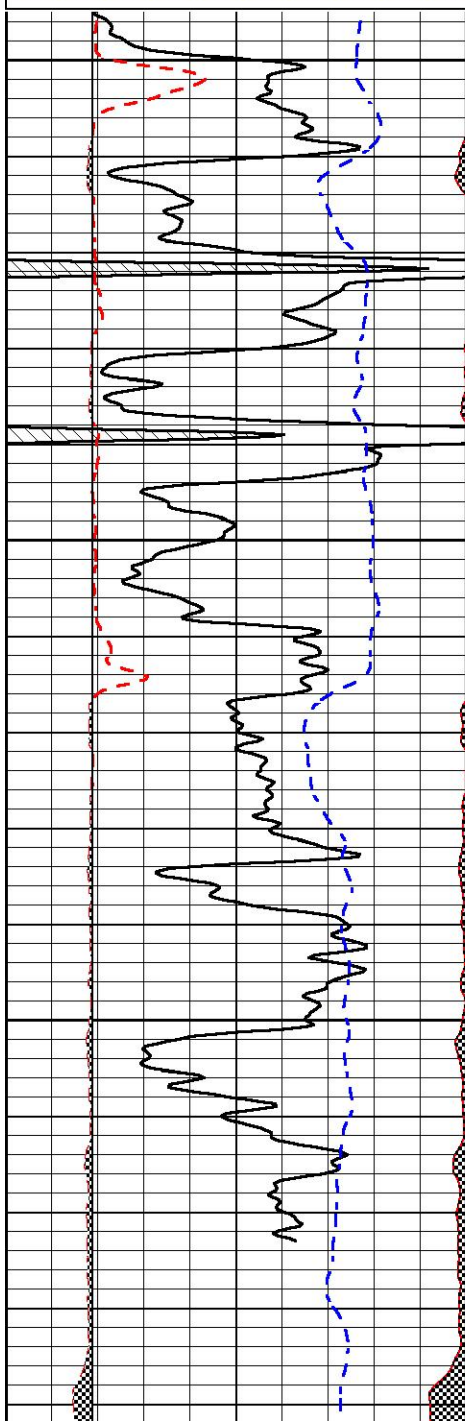
REPEAT SECTION

REPEAT PASS

Database File canyon_finley #19-1.db
Dataset Pathname StkMI/pass2.1
Presentation Format _micro
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
2.875 mcal (in) 7.875
-200 sp (mV) 0

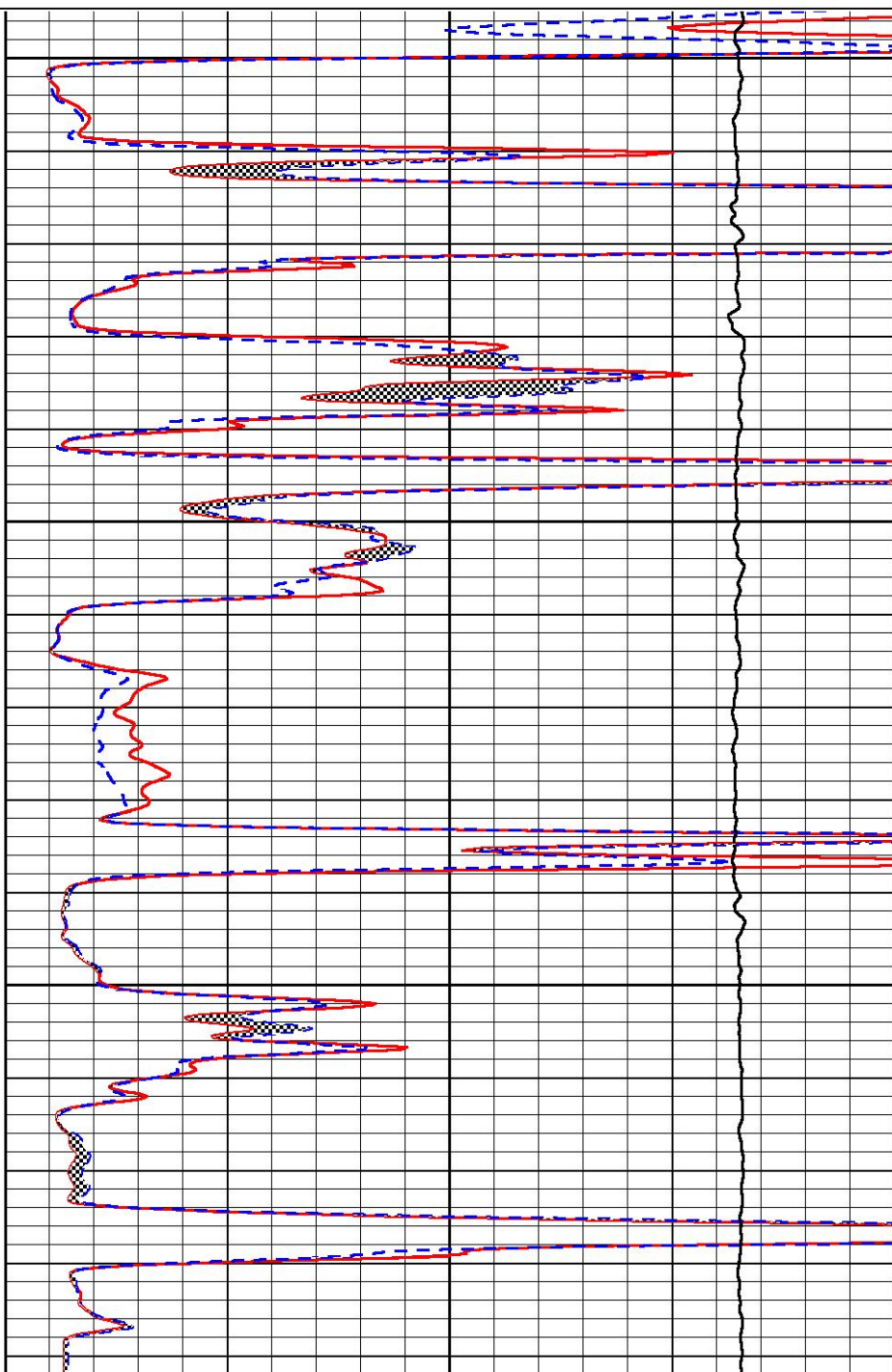
0 Micro Inverse 1 X 1 (Ohm-m) 40
0 Micro Normal 2" (Ohm-m) 40
10000 Line Weight (lb) 0

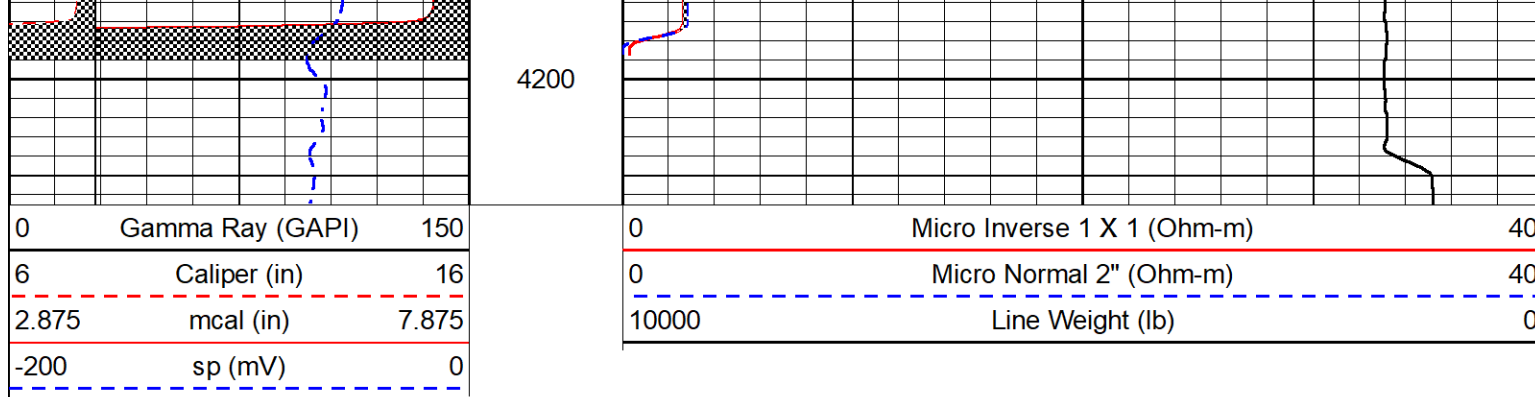


4050

4100

4150





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:	501 HT-M&W
Surface Cal Performed:	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:	402-PSIML
Performed:	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
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Serial-Model:	302-02-M&W
Source #:	20762B
Master Calibration Performed:	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: 207-MW
Tool Model: 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	cps		
	Long Space	cps	pu	
3)	Short Space	cps		
	Long Space	cps	pu	

POST-SURVEY VERIFICATION

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