



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Berexco LLC		Company Berexco LLC	
Well Fred #12	Well Fred #12		
Field Solomon	Field Solomon		
County Ellis	County Ellis		
State Kansas	State Kansas		
Location: API #: 15-051-27001-00-00		Other Services	
SE NE NW 990' FNL & 330' FEL SEC 15 TWP 11S RGE 19W		CNL/CDL DIL/BHCS	
Permanent Datum	Ground Level	Elevation	1957'
Log Measured From	Kelly Bushing		K.B. 1967'
Drilling Measured From	Kelly Bushing		D.F. N/A
			G.L. 1957'
Date	5/20/2021		
Run Number	Two		
Depth Driller	3574'		
Depth Logger	3581'		
Bottom Logged Interval	3580'		
Top Log Interval	2700'		
Casing Driller	8.625" @ 307'		
Casing Logger	307'		
Bit Size	7.875"		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	6000		
Density / Viscosity	9.2 46		
pH / Fluid Loss	9.0 10.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.7 @ 74		
Rmt @ Meas. Temp	0.53 @ 74		
Rmc @ Meas. Temp	0.95 @ 74		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.46 @ 112		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	112 Deg F		
Equipment Number	P-24		
Location	HAYS		
Recorded By	T. Martin		
Witnessed By	Pete Vollmer		

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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.

Hays, KS, N on 183 to Saline River Rd, 6 W, S into

Log Measured From: Kelly Bushing

10 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: Pete Vollmer
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\berexco_fred #12.db
Dataset field/Fred_#12/StkMI/pass4.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	112	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	0	0	290	70	Off	3581

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



MIDWEST WIRELINE

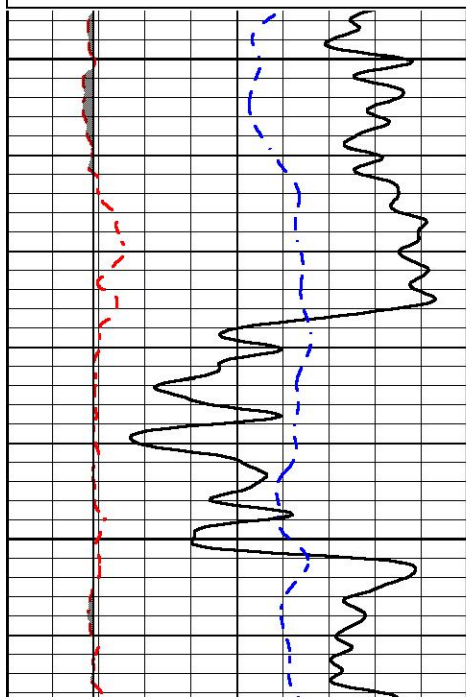
DETAIL SECTION

MAIN PASS

Database File berexco_fred #12.db
Dataset Pathname Fred_#12/StkMI/pass4.1
Presentation Format _micro
Dataset Creation Thu May 20 02:30:24 2021
Charted by Depth in Feet scaled 1:240

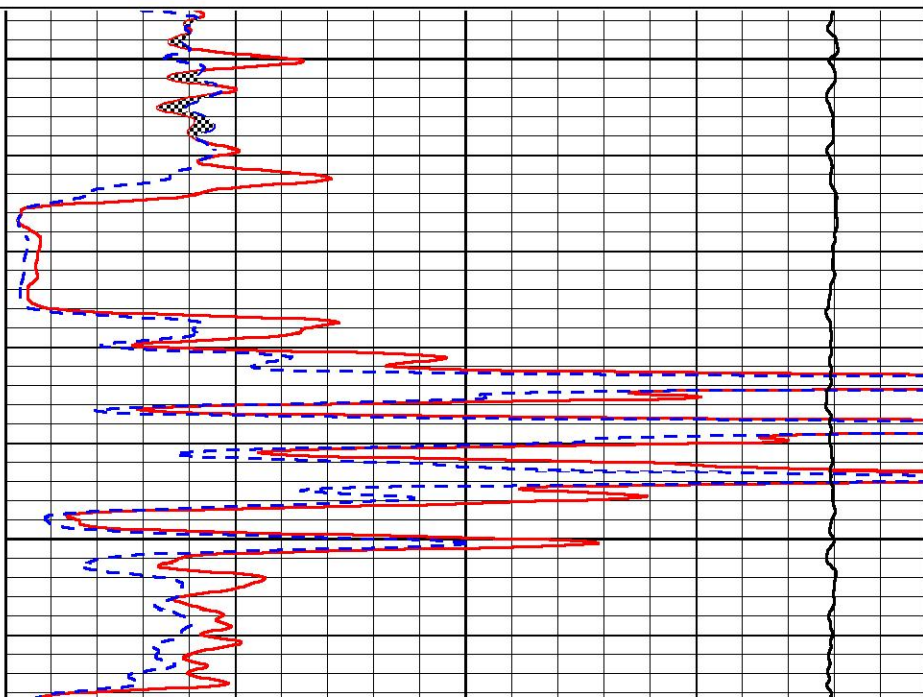
0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
6	Bit Size (in)	16
-200	sp (mV)	0

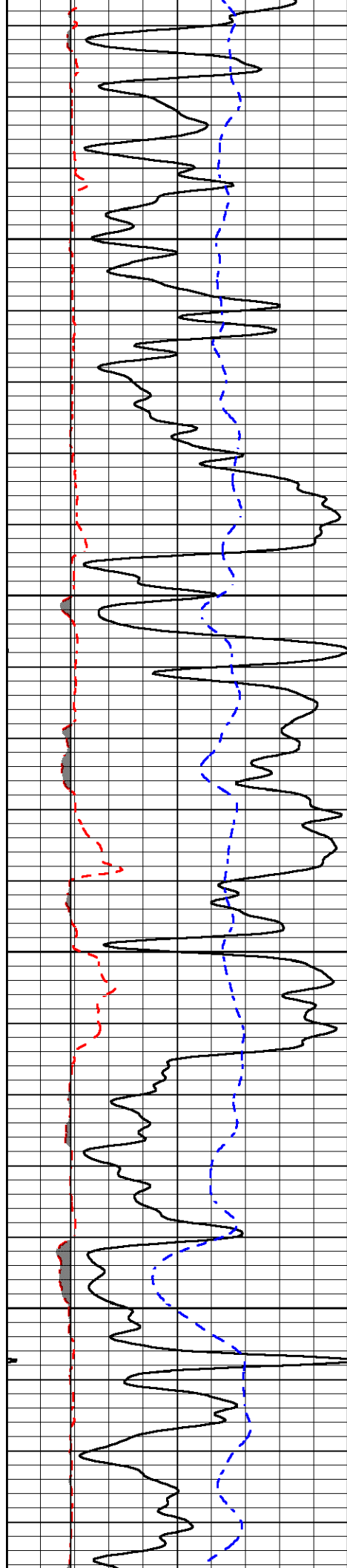
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0



2700

2750



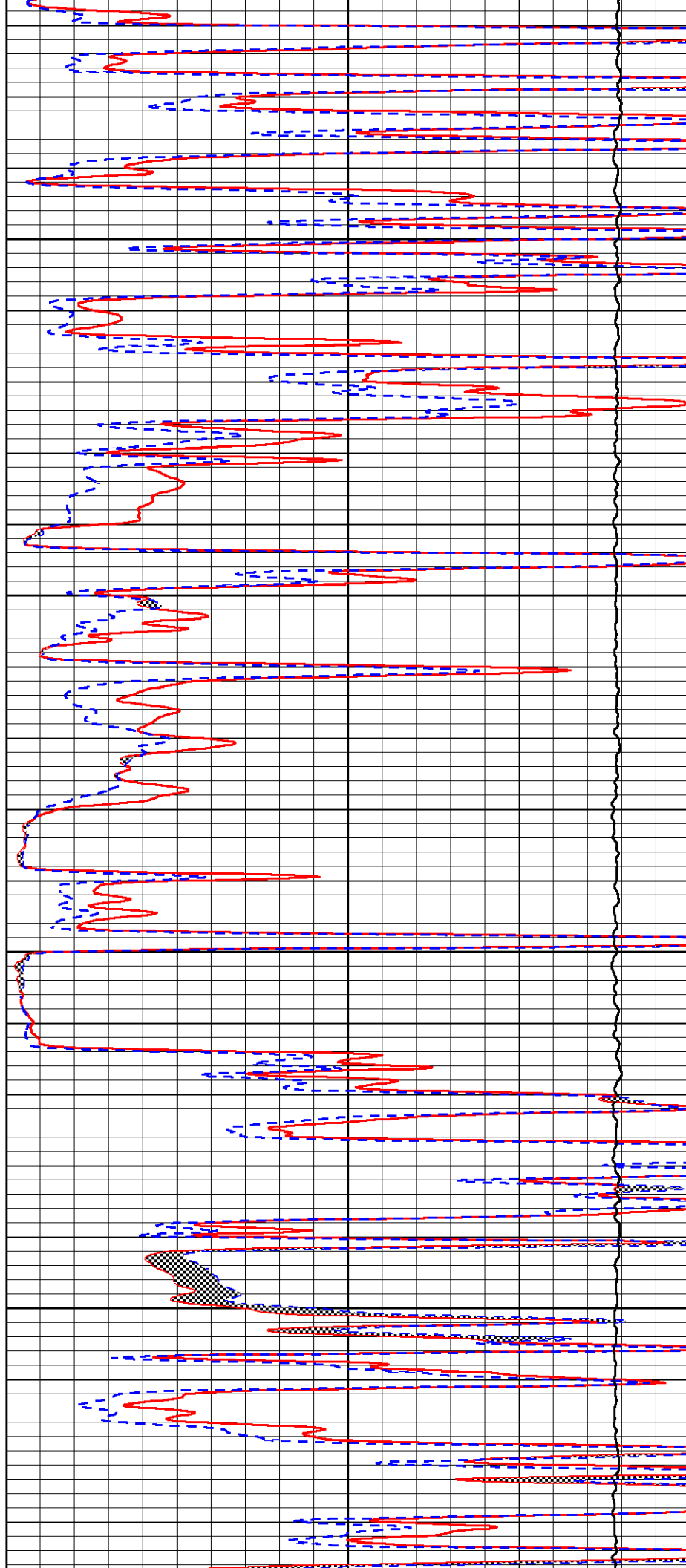


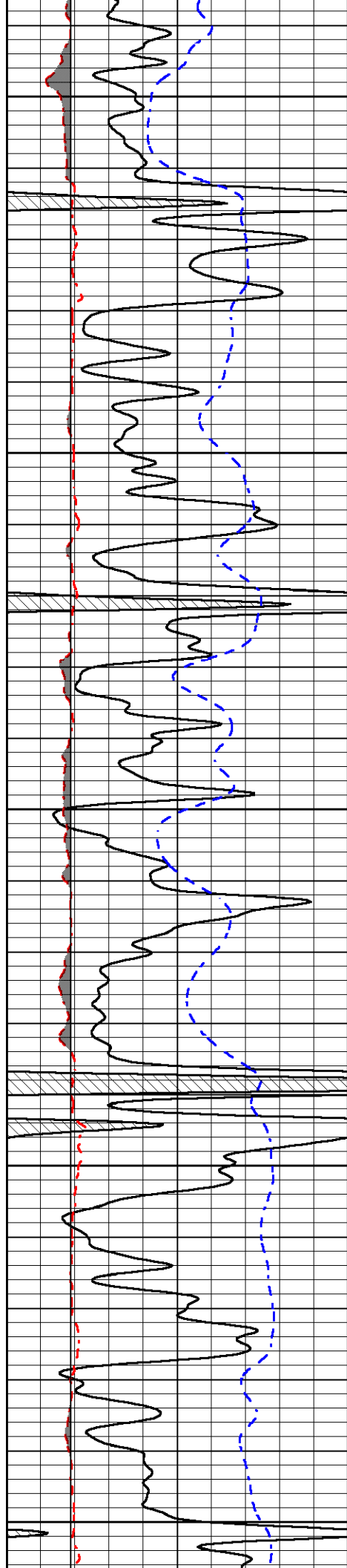
2800

2850

2900

2950





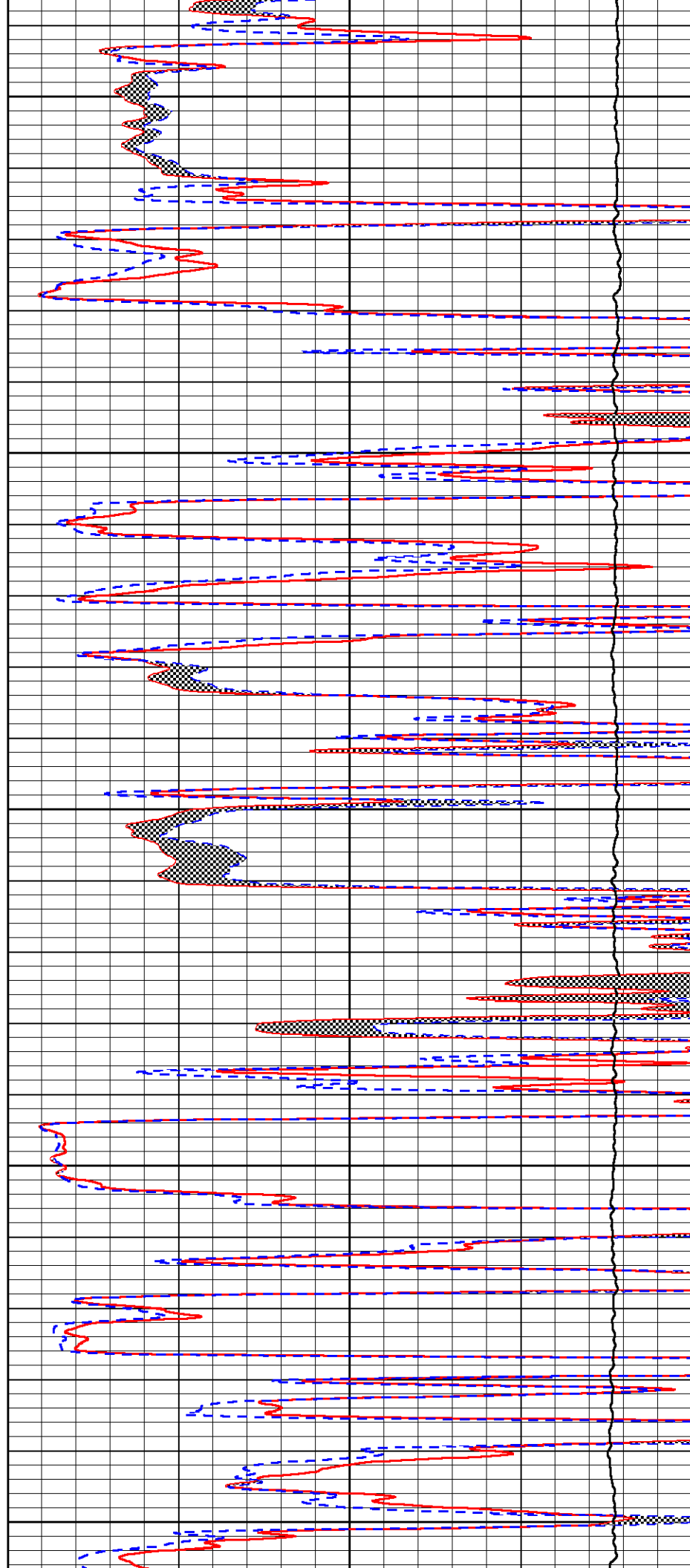
3000

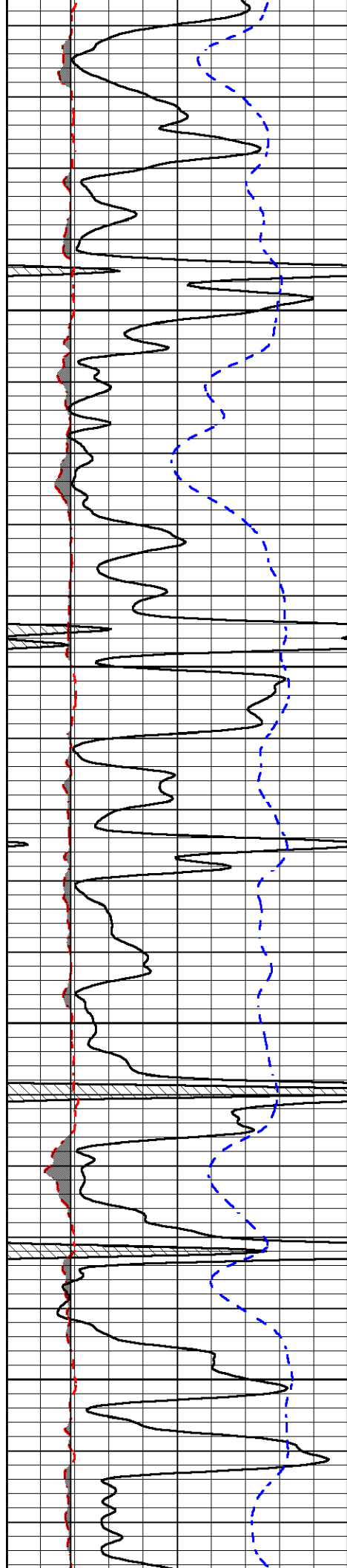
3050

3100

3150

3200



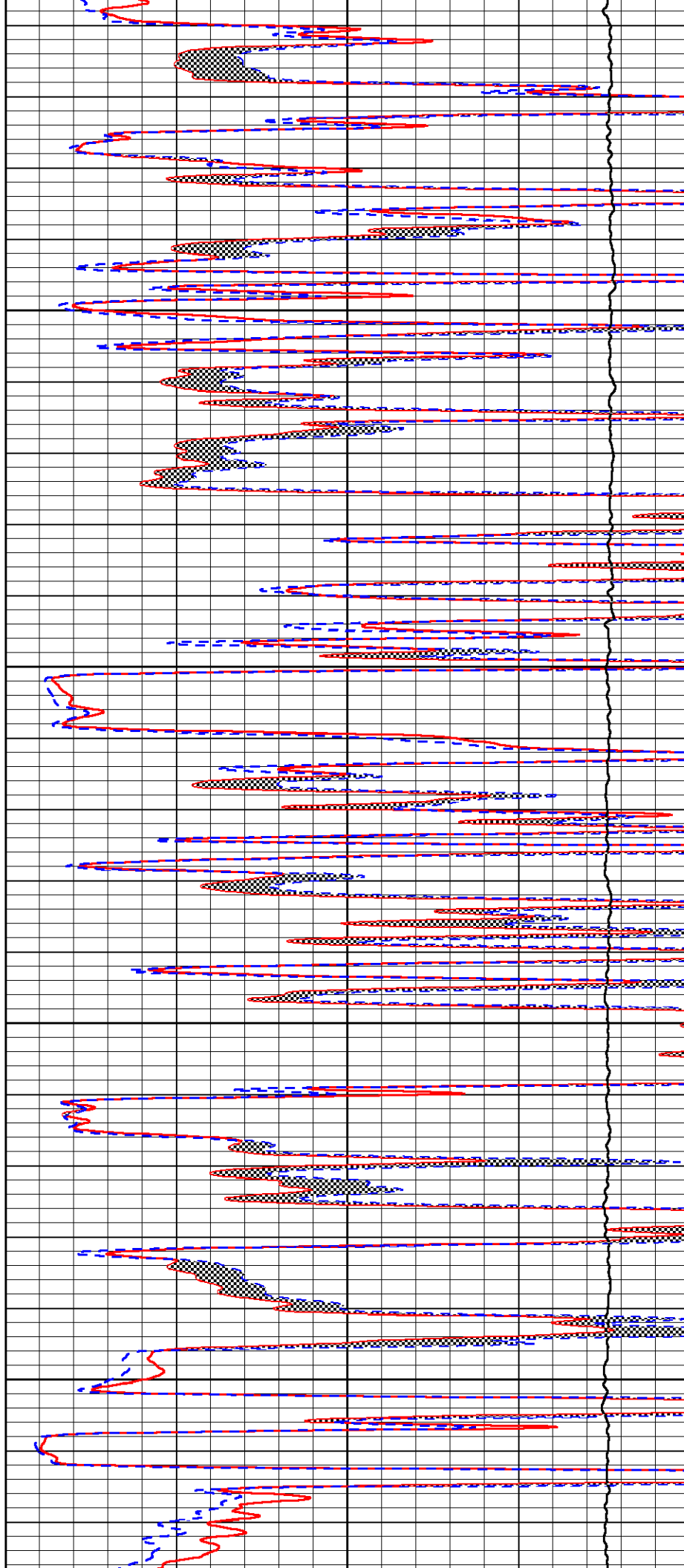


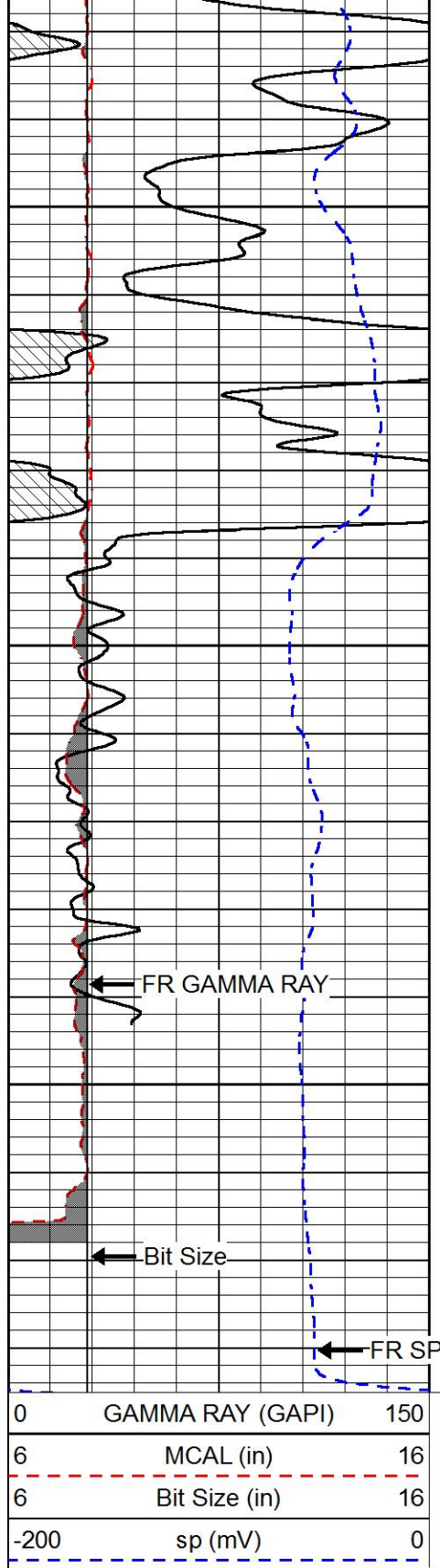
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3300

3350

3400

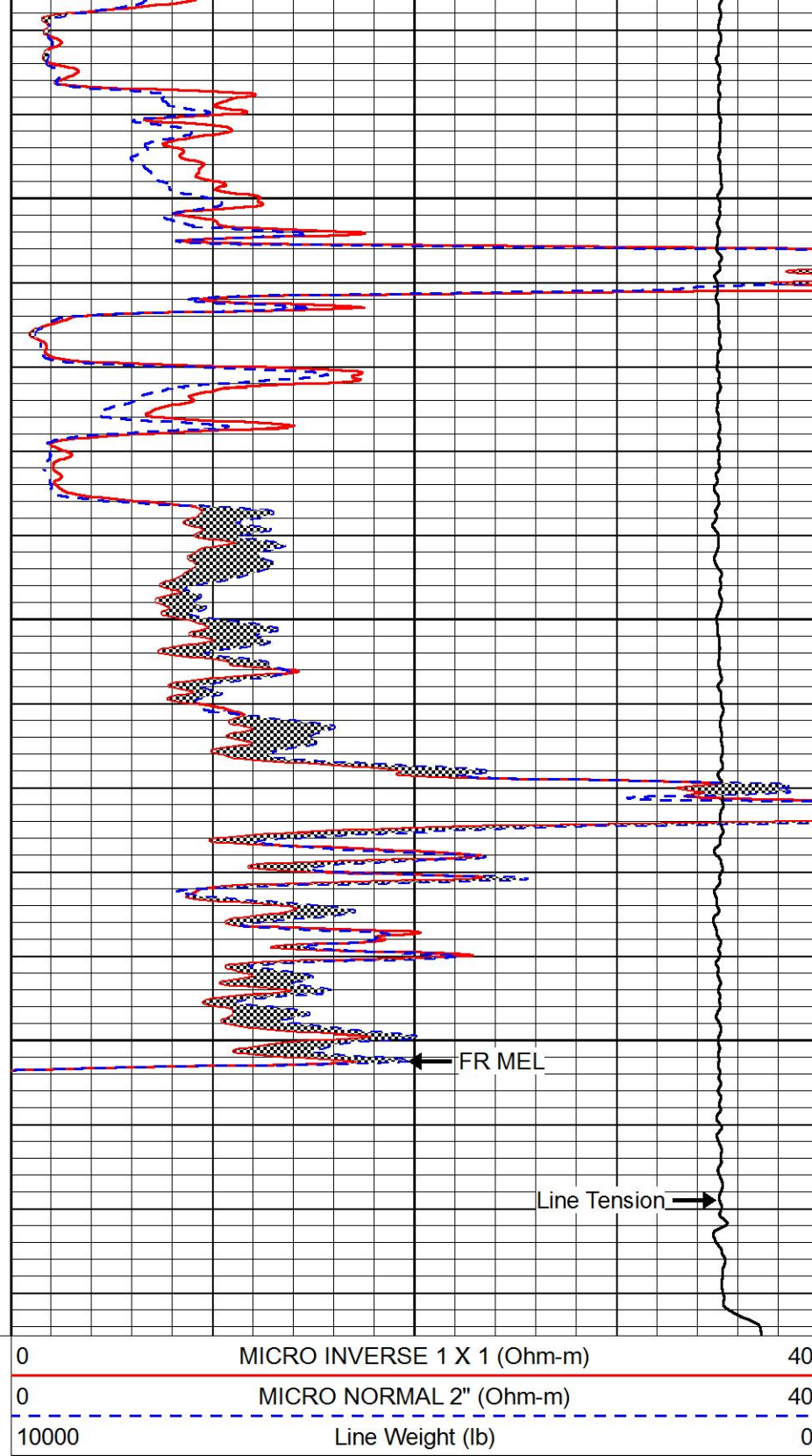




3450

3500

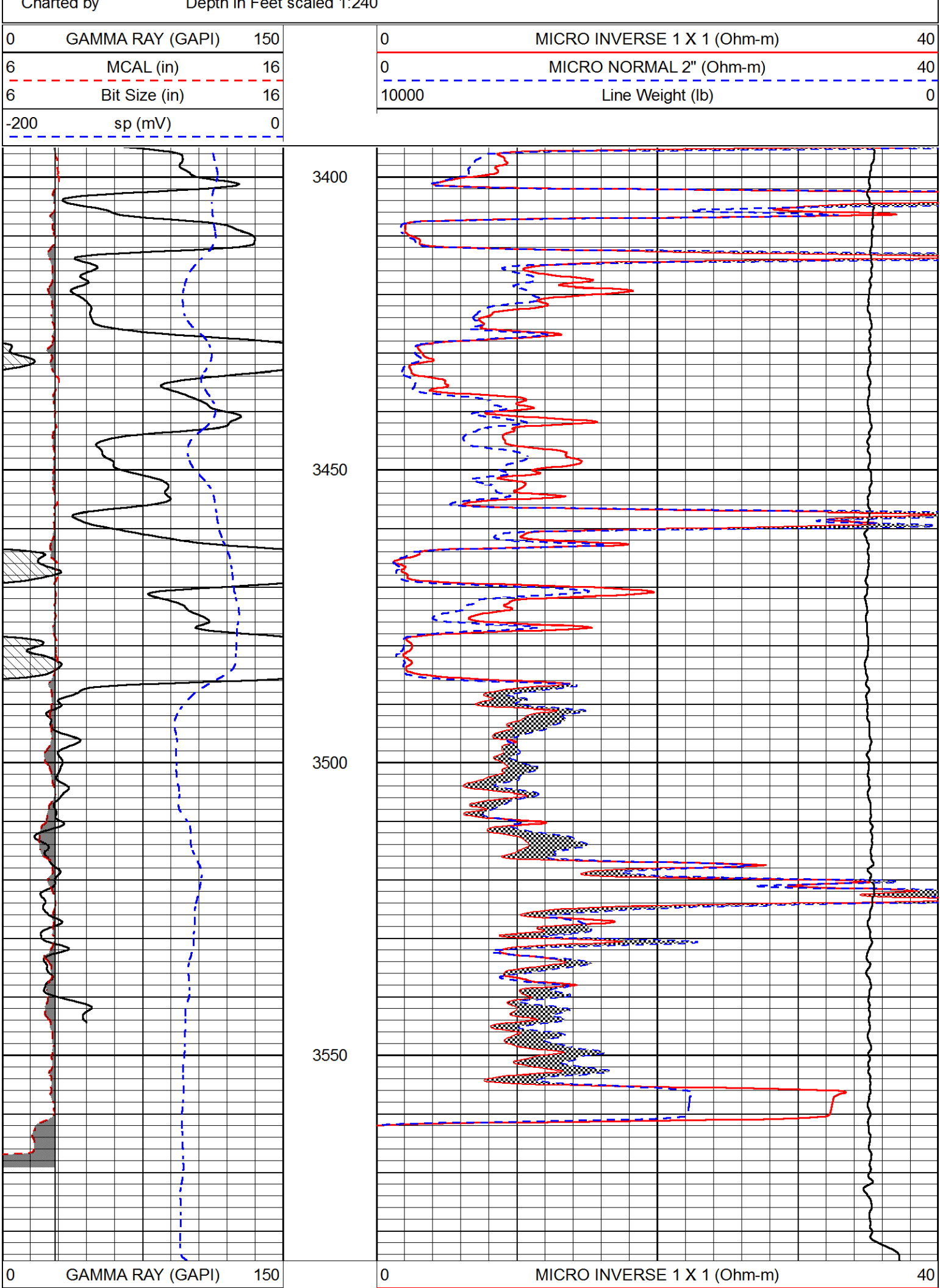
3550



REPEAT SECTION

REPEAT PASS

Database File berexco_fred #12.db
 Dataset Pathname Fred_#12/StkMI/pass3.1
 Presentation Format _micro
 Dataset Creation Thu May 20 01:55:04 2021
 Charted by



6	MCAL (in)	16
6	Bit Size (in)	16
-200	sp (mV)	0

0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0

	Company	Berexco LLC
	Well	Fred #12
	Field	Solomon
	County	Ellis
	State	Kansas