



MIDWEST WIRELINE

MICRORESISTIVITY LOG

Company Berexco LLC		Company Berexco LLC	
Well Wolf GMC #7		Well Wolf GMC #7	
Field Disneyland		Field Disneyland	
County Ellis		County Ellis	
State Kansas		State Kansas	
Location: API #: 15-051-27017-00-00		Other Services	
1170 FNL & 1550 FEL		CNL/CDL DIL/BHCS	
SEC 7 TWP 13S RGE 19W			
Permanent Datum	Ground Level	Elevation	2092
Log Measured From	Kelly Bushing	K.B.	2102
Drilling Measured From	Kelly Bushing	D.F.	
		G.L.	2092
Date	12/2/2021		
Run Number	One		
Depth Driller	3850		
Depth Logger	3850		
Bottom Logged Interval	3849		
Top Log Interval	3100		
Casing Driller	8.625 @ 309		
Casing Logger	300'		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4000		
Density / Viscosity	9.4 58		
pH / Fluid Loss	10.0 8.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.45 @ 69		
Rmt @ Meas. Temp	.34 @ 69		
Rmc @ Meas. Temp	.61 @ 69		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.27 @ 115		
Operating Rig Time	2 Hours		
Max Rec. Temp. F	115		
Equipment Number	P-108		
Location	HAYS		
Recorded By	J. Henrickson		
Witnessed By	Bryan Bynog		

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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.

Ellis Kansas
East on Old 40 to 160th, 1 North,
East 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: J. Henrickson
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

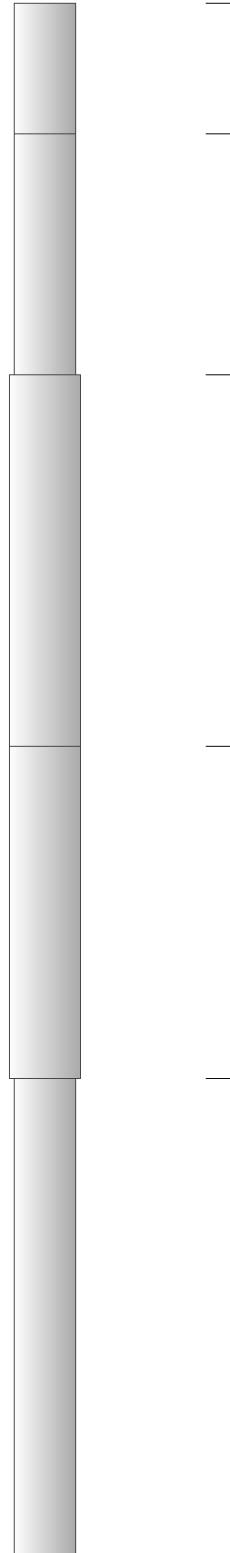
Primary Witness: Bryan Bynog
Secondary Witness:
Secondary Witness:
Secondary Witness:

DatabaseC:\ProgramData\Warrior\Data\berexco_wolf_gmc_7.db
Dataset field/well/stackml/pass4.1/_vars_

DatabaseC:\ProgramData\Warrior\Data\berexco_wolf_gmc_7.db
Dataset field/well/stackml/pass4.1/_vars_

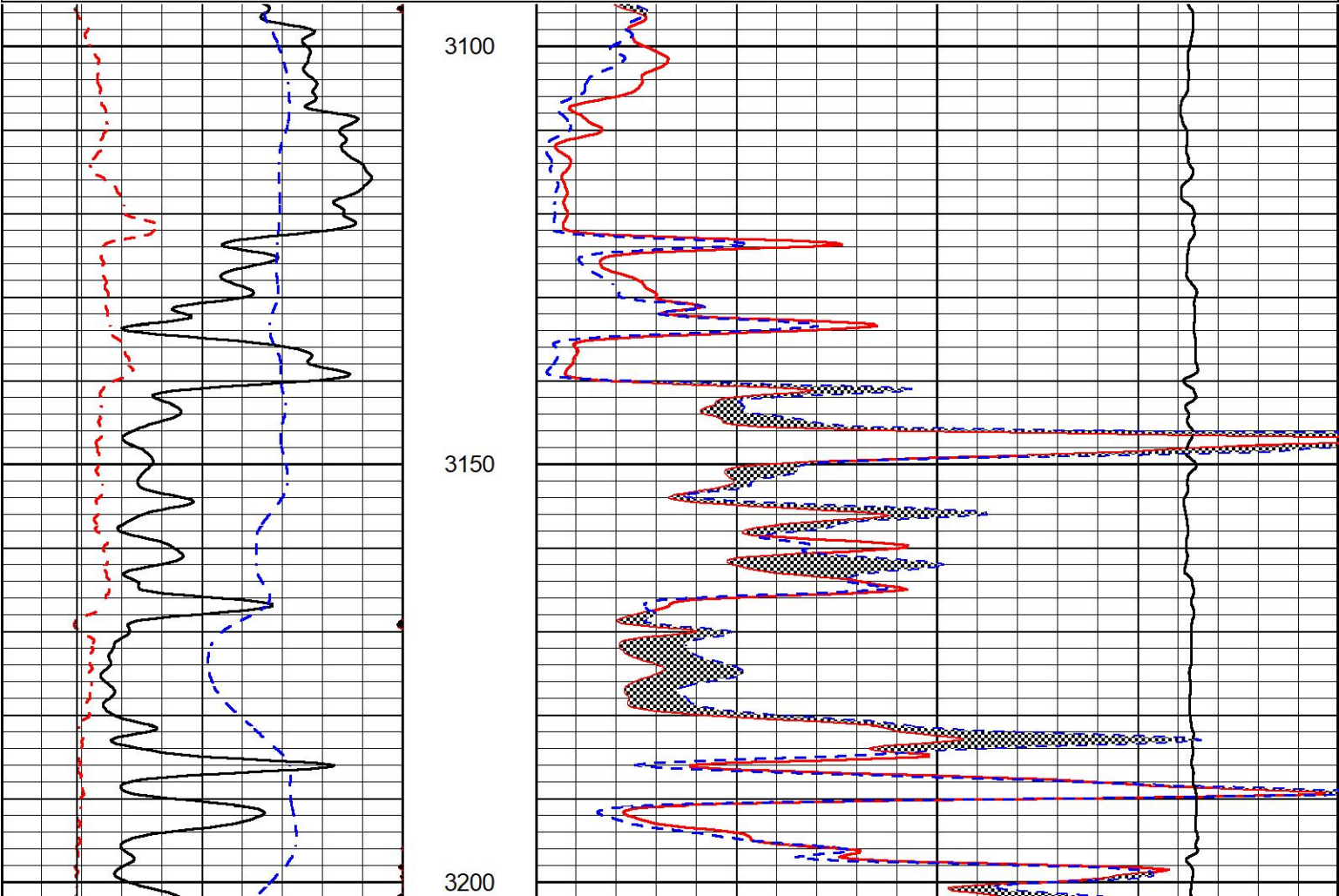
Top - Bottom

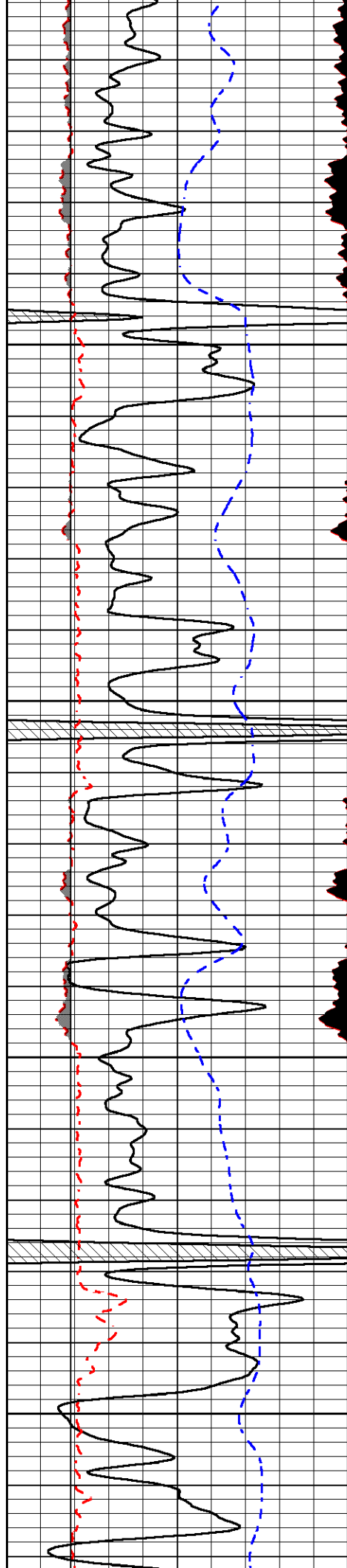
A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	117	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	540	50	Off	3850

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (915-956)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50		DIL-PSI HIGH TEMP (959-1032)	18.50	3.50	220.00

CILM	4.50								
SP	0.20								
Dataset: berexco_wolf_gmc_7.db: field/well/stackml/pass4.1 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in									

 MIDWEST WIRELINE									
Database File		berexco_wolf_gmc_7.db							
Dataset Pathname		stackml/pass4.1							
Presentation Format		_micro							
Dataset Creation		Fri Dec 03 00:27:41 2021							
Charted by		Depth in Feet scaled 1:240							
0	Gamma Ray (GAPI)	150		0	Micro Inverse 1 X 1 (Ohm-m)	40			
6	Caliper (in)	16		0	Micro Normal 2" (Ohm-m)	40			
2.875	mccl (in)	7.875		10000	Line Weight (lb)	0			
-200	SP (mV)	0							



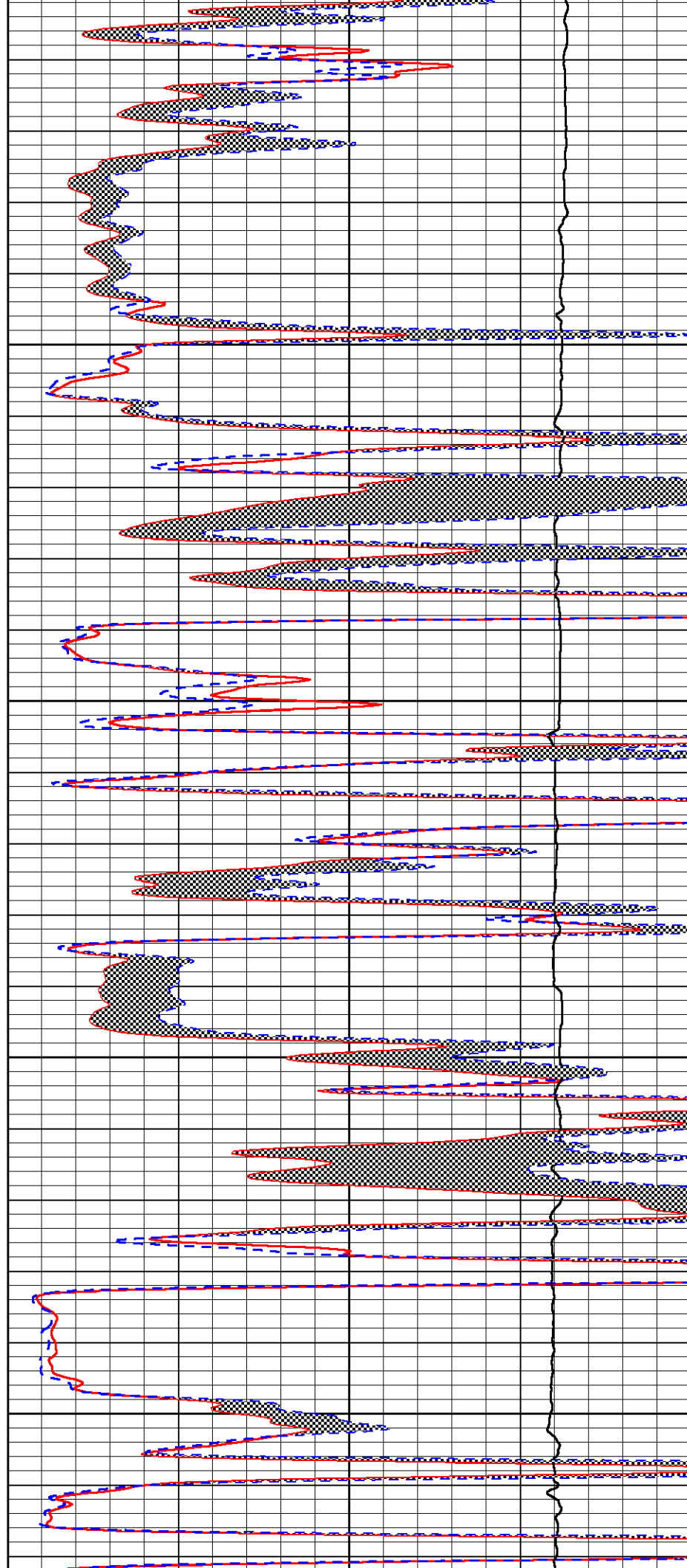


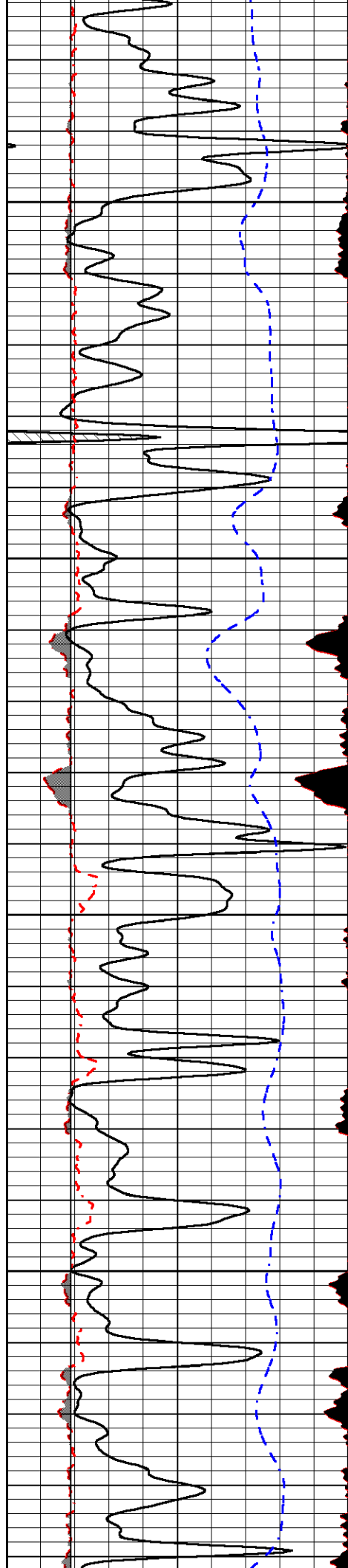
3250

3300

3350

3400



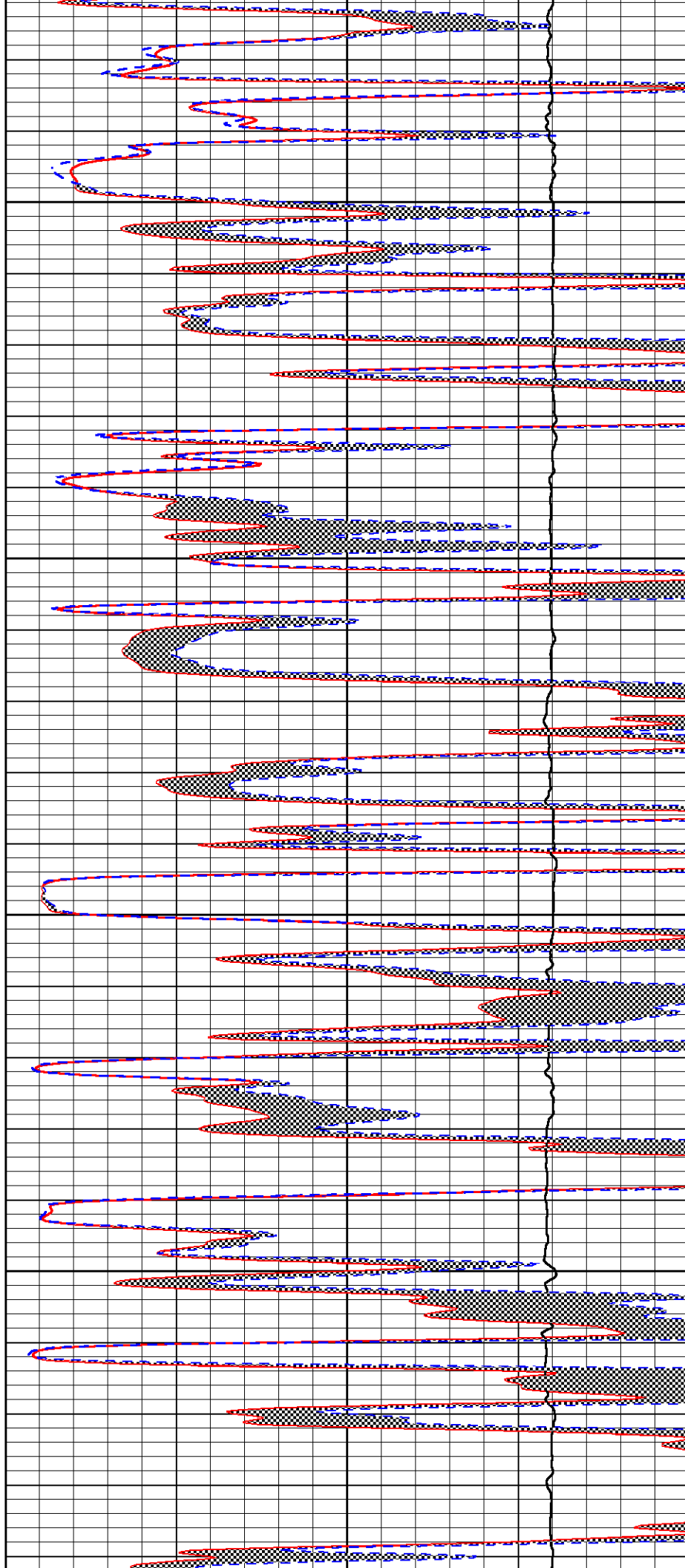


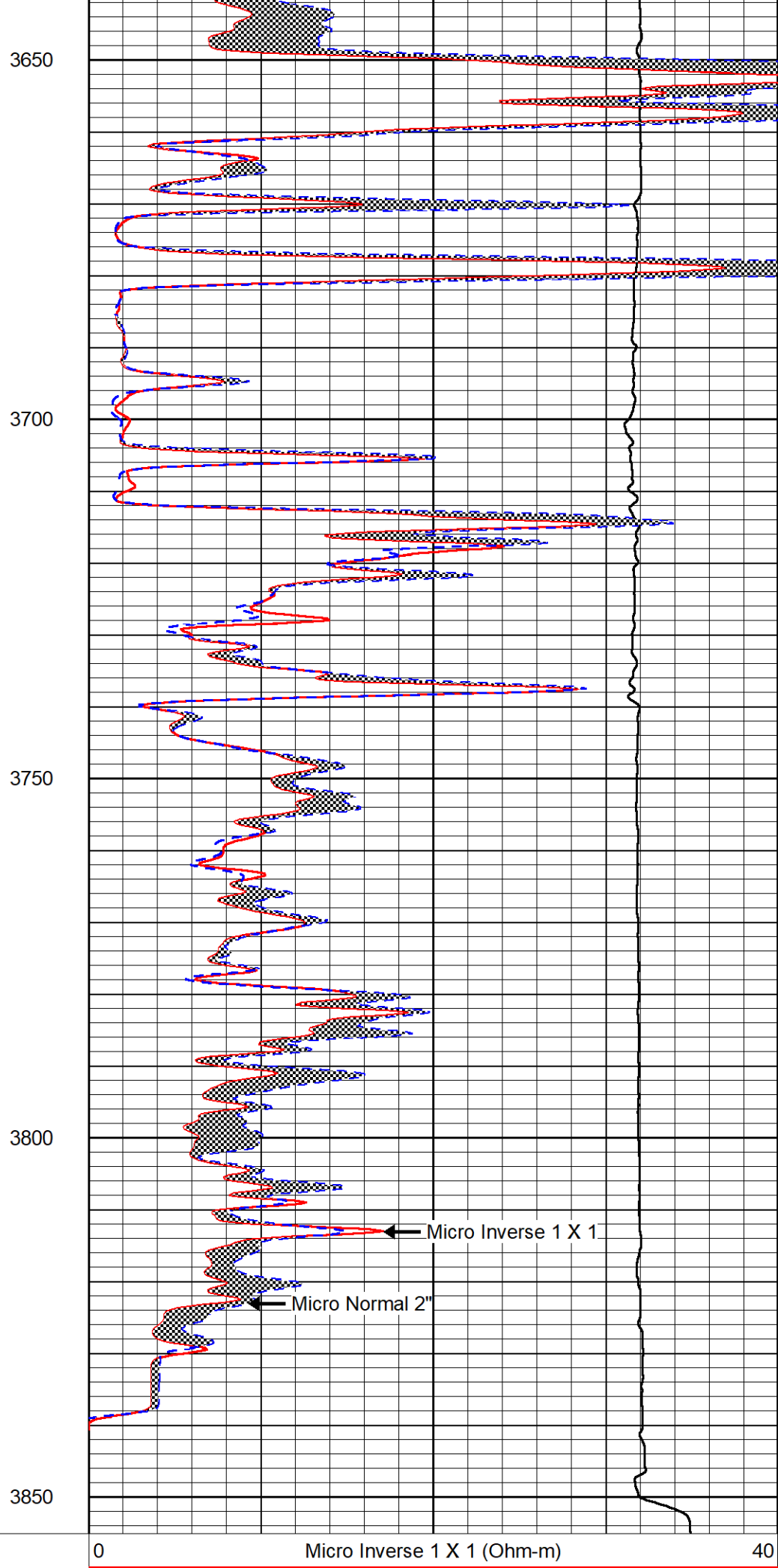
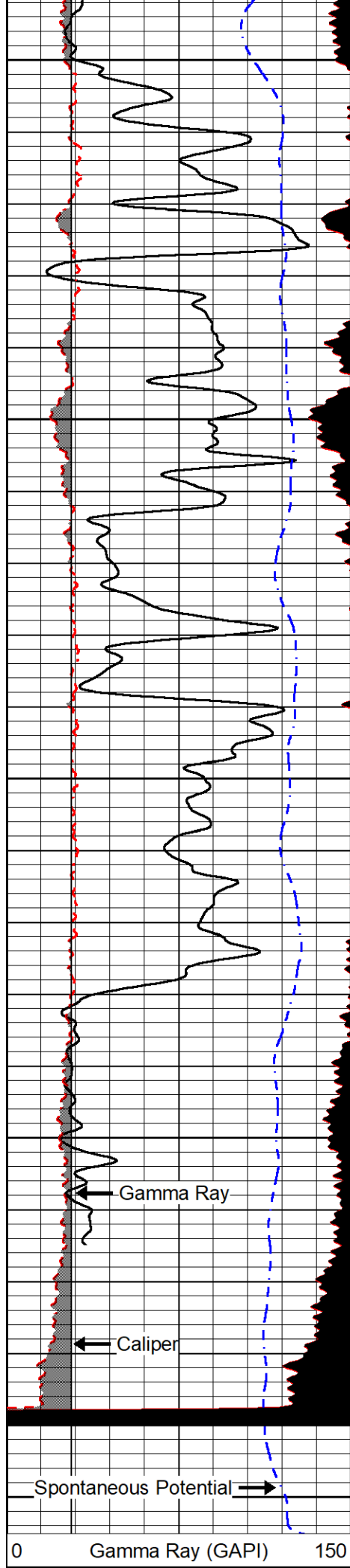
3450

3500

3550

3600





6	Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

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



MIDWEST WIRELINE

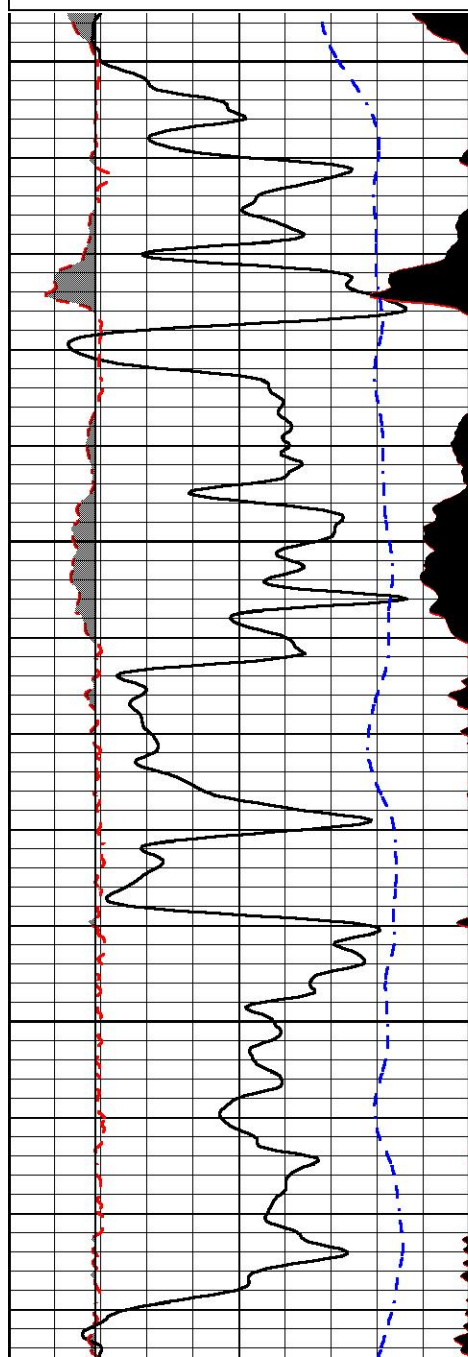
REPEAT SECTION

REPEAT PASS

Database File berexco_wolf_gmc_7.db
Dataset Pathname stackml/pass2.1
Presentation Format _micro
Dataset Creation Fri Dec 03 00:28:03 2021
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

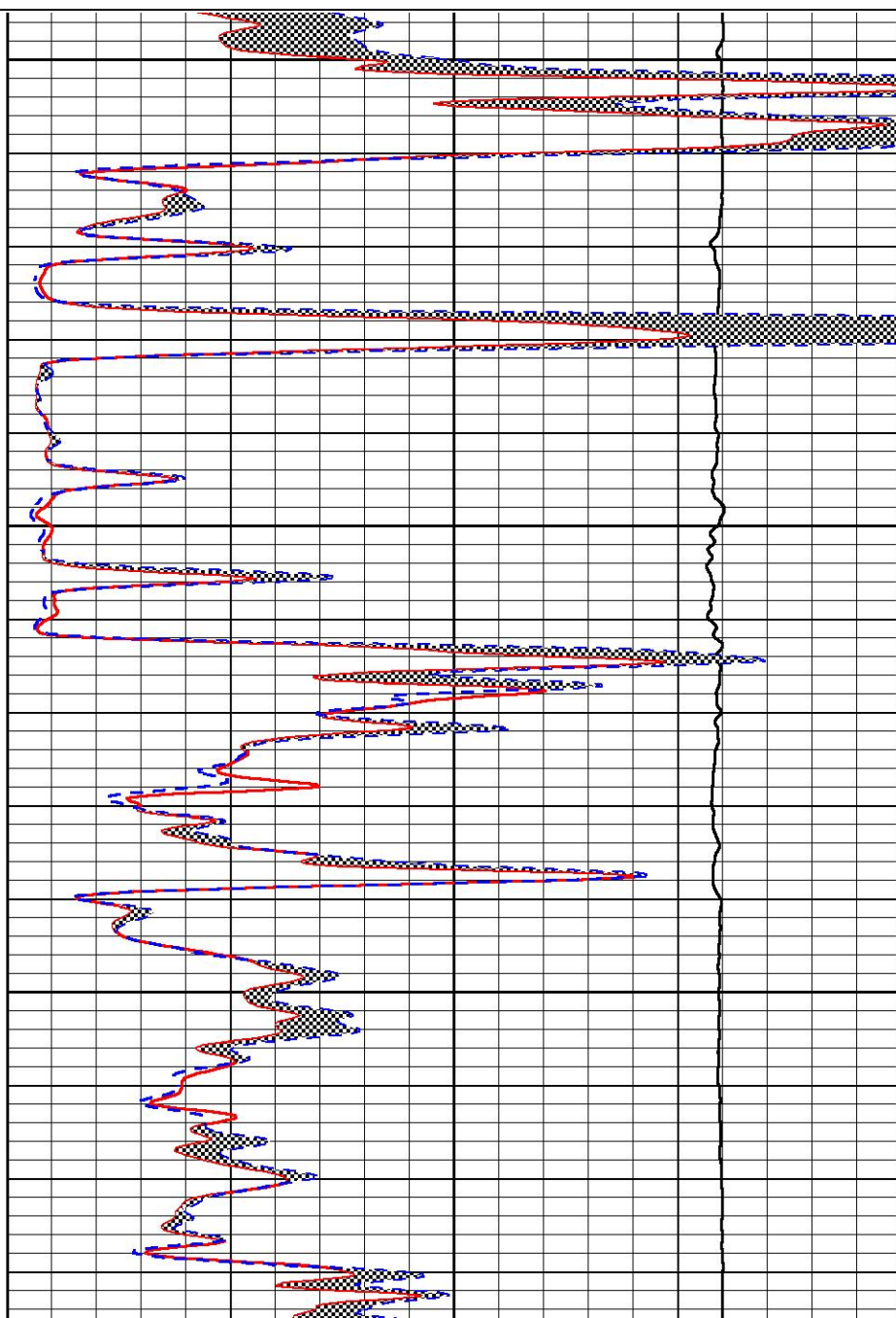
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

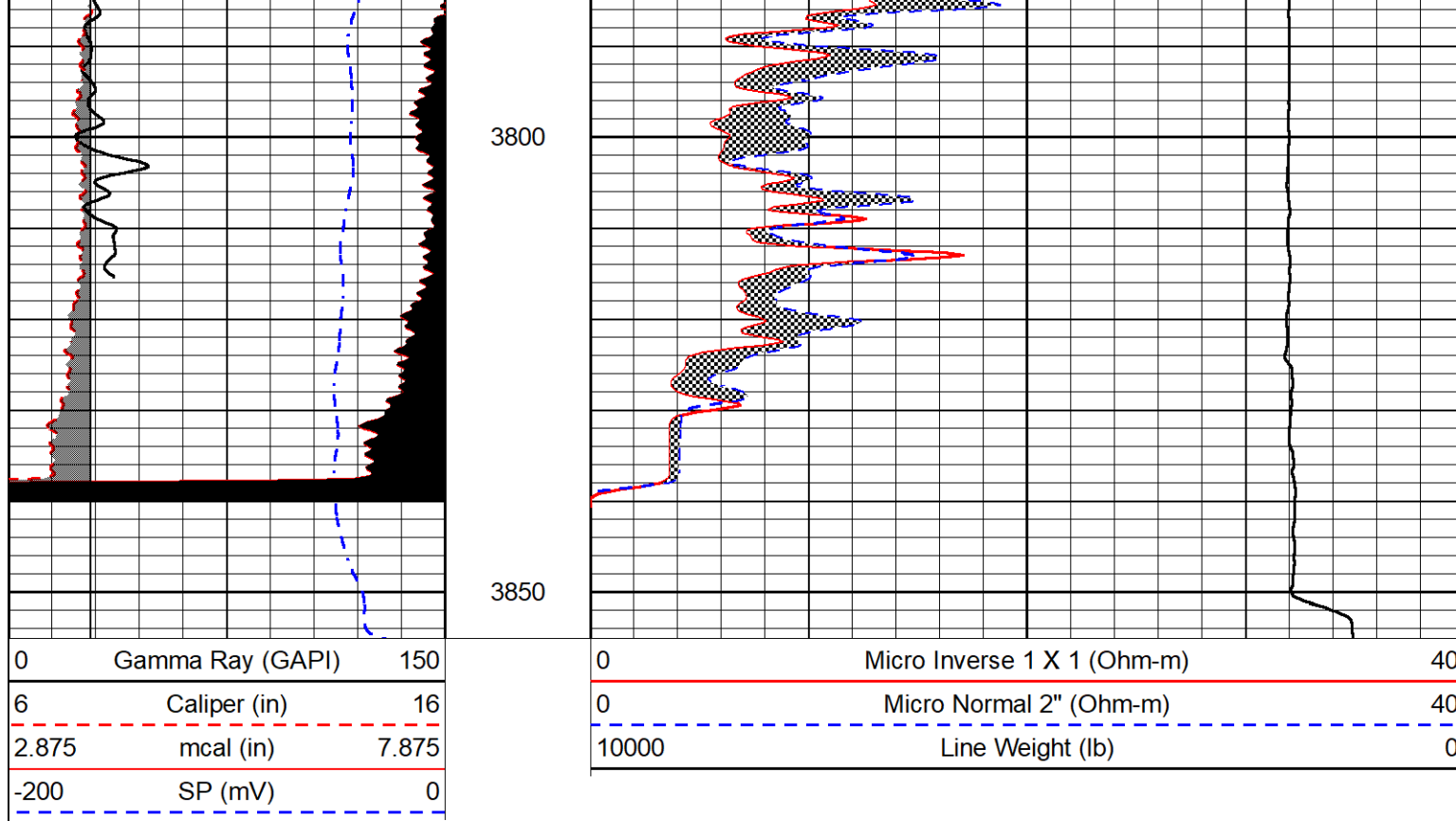


3650

3700

3750





Calibration Report	
Database File	berexco_wolf_gmc_7.db
Dataset Pathname	stackml/pass4.1
Dataset Creation	Fri Dec 03 00:27:41 2021

Dual Induction Calibration Report

Serial-Model:	959-1032-PSI HIGH TEMP
Surface Cal Performed:	

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.550	-10.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.400	-40.000

Microlog Calibration Report

Serial-Model:	PSI-02-PSI STKBL ML
Performed:	Sat Apr 7 11:01:20 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	27000.0000	-1.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	22000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-134.8000

Compensated Density Calibration Report
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Serial-Model:	915-956-M&W
Source / Verifier:	/
Master Calibration Performed:	Mon May 10 05:44:16 2021
Before Survey Verification Performed:	

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3668.53	4669.61	cps
Aluminum	2.675	g/cc	710.88	3056.05	cps
Spine Angle = 75.51			Density/Spine Ratio = 0.543		
	Size		Reading		
Small Ring	4.00	in	1.17		
Large Ring	14.00	in	1.05		

Compensated Neutron Calibration Report

Serial Number: tk10-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

Gamma Ray Calibration Report

Serial Number: 89-M&W
Tool Model: M&W
Performed: Mon May 10 05:44:25 2021

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps