



MIDWEST WIRELINE

MICRORESISTIVITY
LOG

Company TDI, Inc. Well Linda #1 Field Dechant County Ellis State Kansas		Company TDI, Inc. Well Linda #1 Field Dechant County Ellis State Kansas		Location: API #: 15-051-26999-00-00 SE NE NW NW 595' FNL & 1155' FWL SEC 11 TWP 15S RGE 19W Permanent Datum Ground Level Elevation 2046' Log Measured From Kelly Bushing Drilling Measured From Kelly Bushing Other Services CNL/CDL DIL	
Date	7/1/2021	Run Number	One		
Depth Driller		3750'			
Depth Logger		3754'			
Bottom Logged Interval		3753'			
Top Log Interval		2900'			
Casing Driller	8.625" @ 213.56'				
Casing Logger	212'				
Bit Size	7.875"				
Type Fluid in Hole	Chemical				
Salinity, ppm CL	11600				
Density / Viscosity	9.2 58				
pH / Fluid Loss	10.5 8.0				
Source of Sample	FLOWLINE				
Rm @ Meas. Temp	0.55 @ 74				
Rmt @ Meas. Temp	0.41 @ 74				
Rmc @ Meas. Temp	0.74 @ 74				
Source of Rmt / Rmc	CHARTS				
Rm @ BHT	0.36 @ 114				
Operating Rig Time	2.5 Hours				
Max Rec. Temp. F	114 Deg F				
Equipment Number	P-108				
Location	HAYS				
Recorded By	T. Martin				
Witnessed By	Herb Deines	Tom Denning			

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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

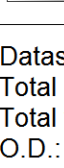
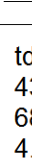
N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Antonino, KS, 1 S, 1.5 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		This Log Record Was Witnessed By	
Engineer: T. Martin		Primary Witness: Herb Deines	
Operator:		Secondary Witness: Tom Denning	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73			CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93			CDL-M&W (915-956)	8.50	4.00	250.00
ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools					7.58	4.00	65.00
MCAL MI MN	19.83 19.83 19.83						
RLL3F RLL3	15.80 15.80						
CILD	8.00			DIL-PSI HIGH TEMP (959-1032)	18.50	3.50	220.00
CILM	4.70						
SP	0.20						
Dataset: tdi_linda_#1.db: field/well/StkMI/pass3.1 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in							

Log Variables

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

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	114	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	205	80	Off	3754



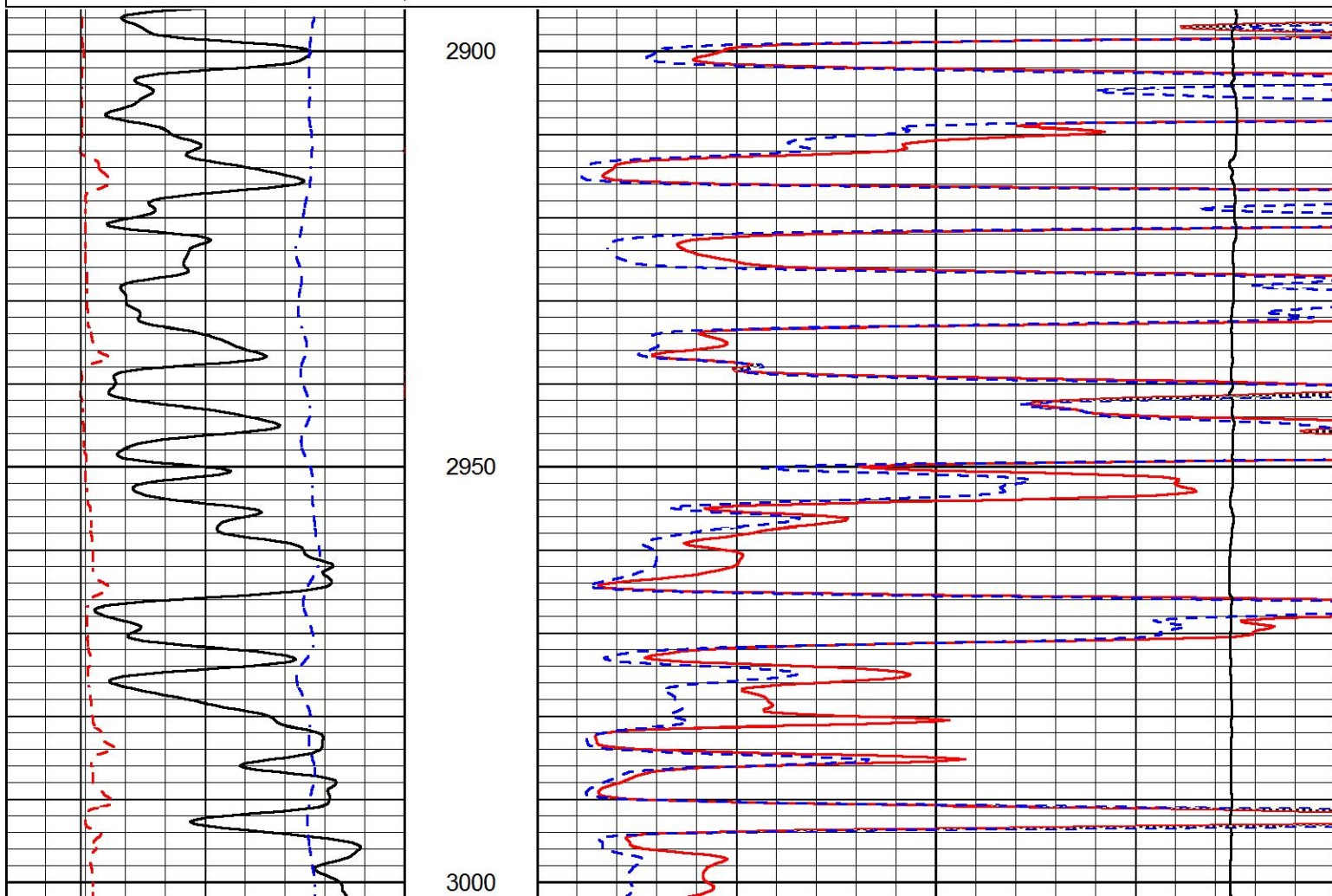
DETAIL SECTION

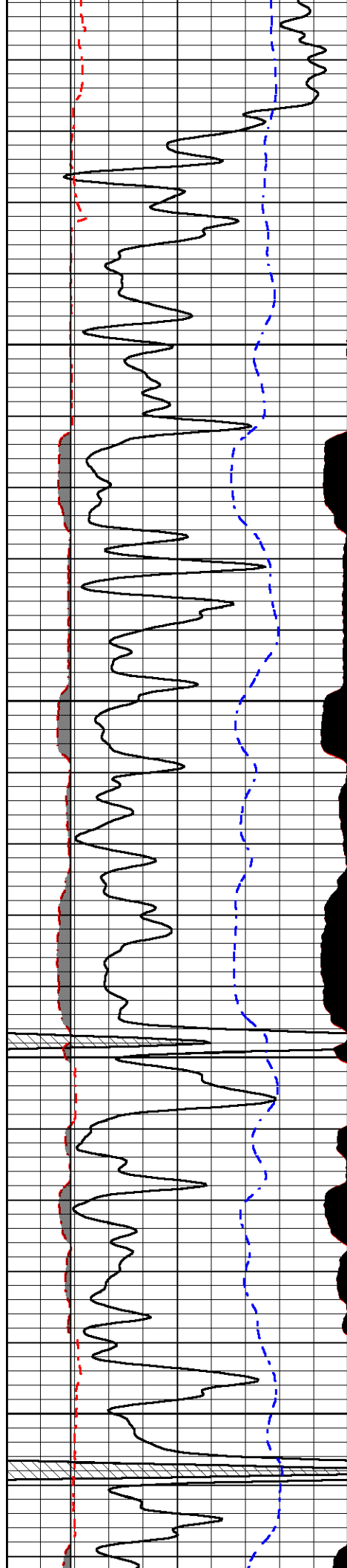
MAIN PASS

Database File tdi_linda_#1.db
Dataset Pathname StkMI/pass3.1
Presentation Format micro
Dataset Creation Thu Jul 01 11:49:38 2021
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (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
15000	LINE TENSION (lb)	0



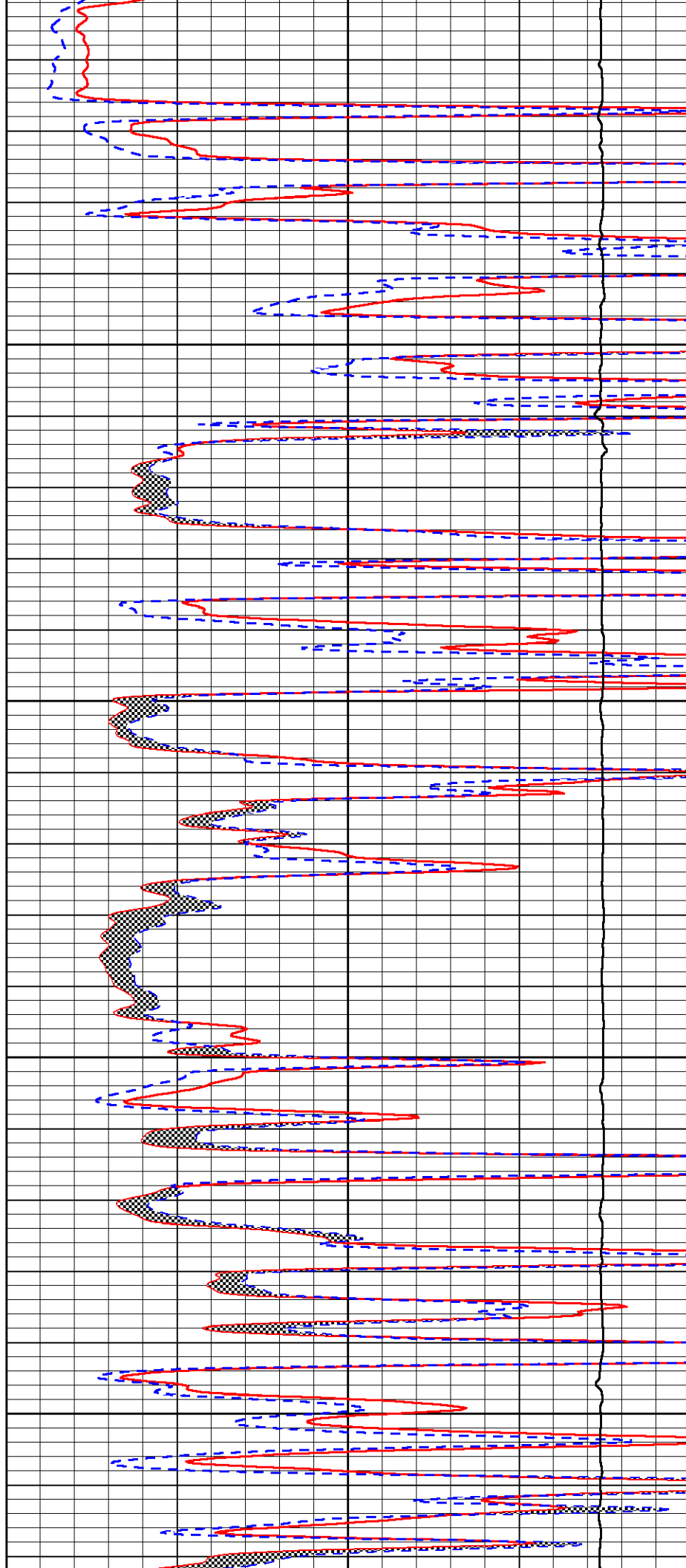


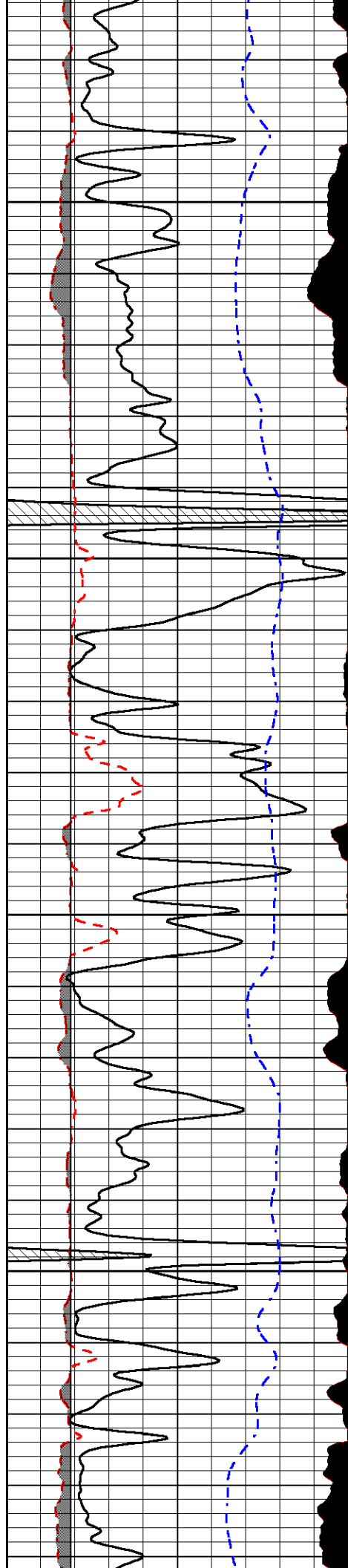
3050

3100

3150

3200



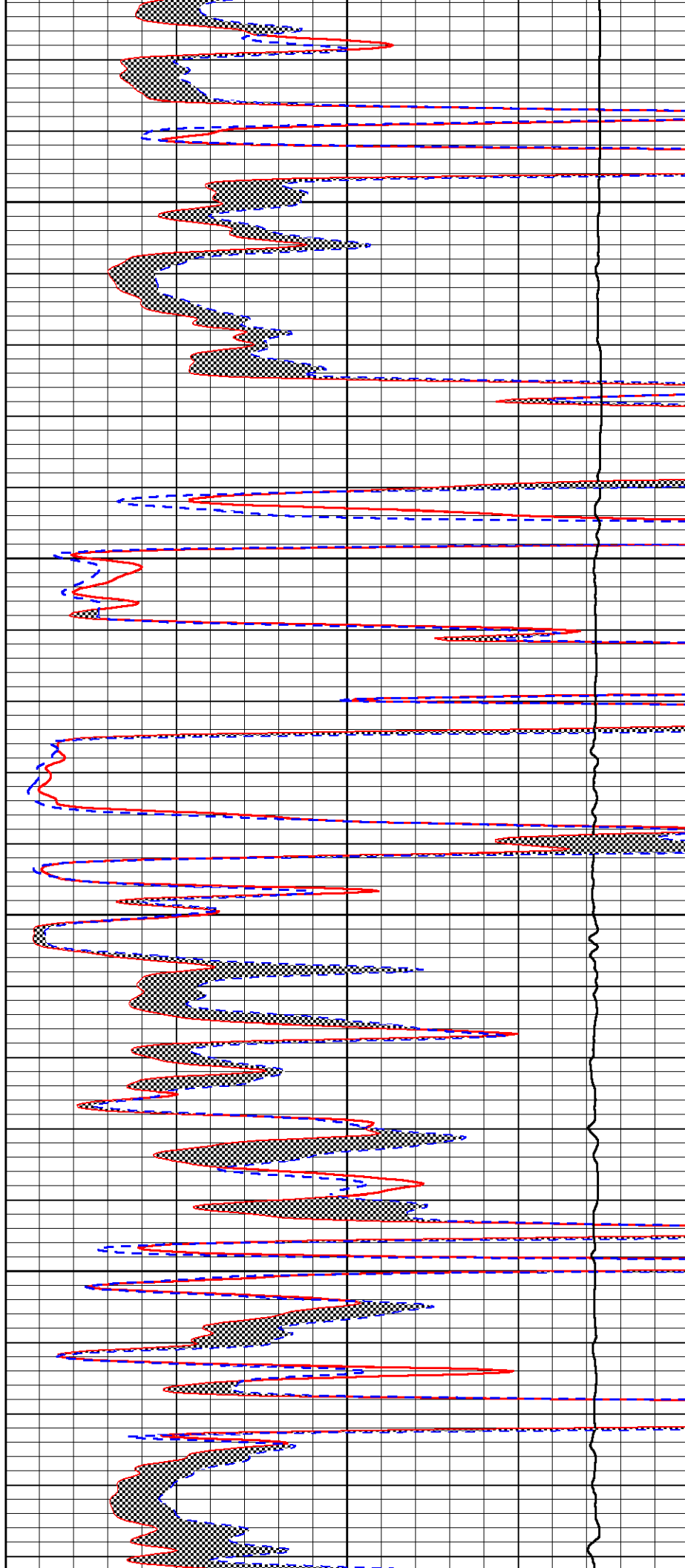


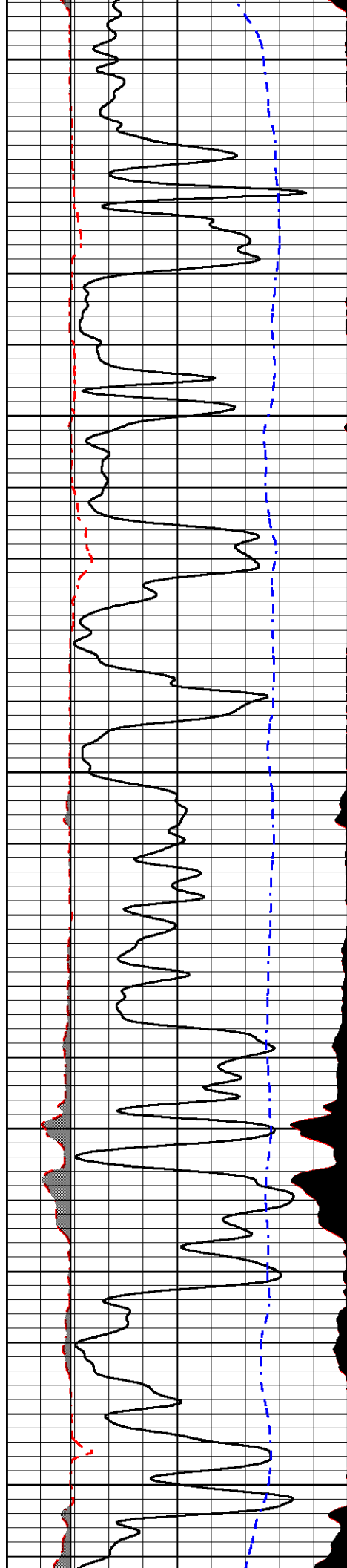
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3300

3350

3400





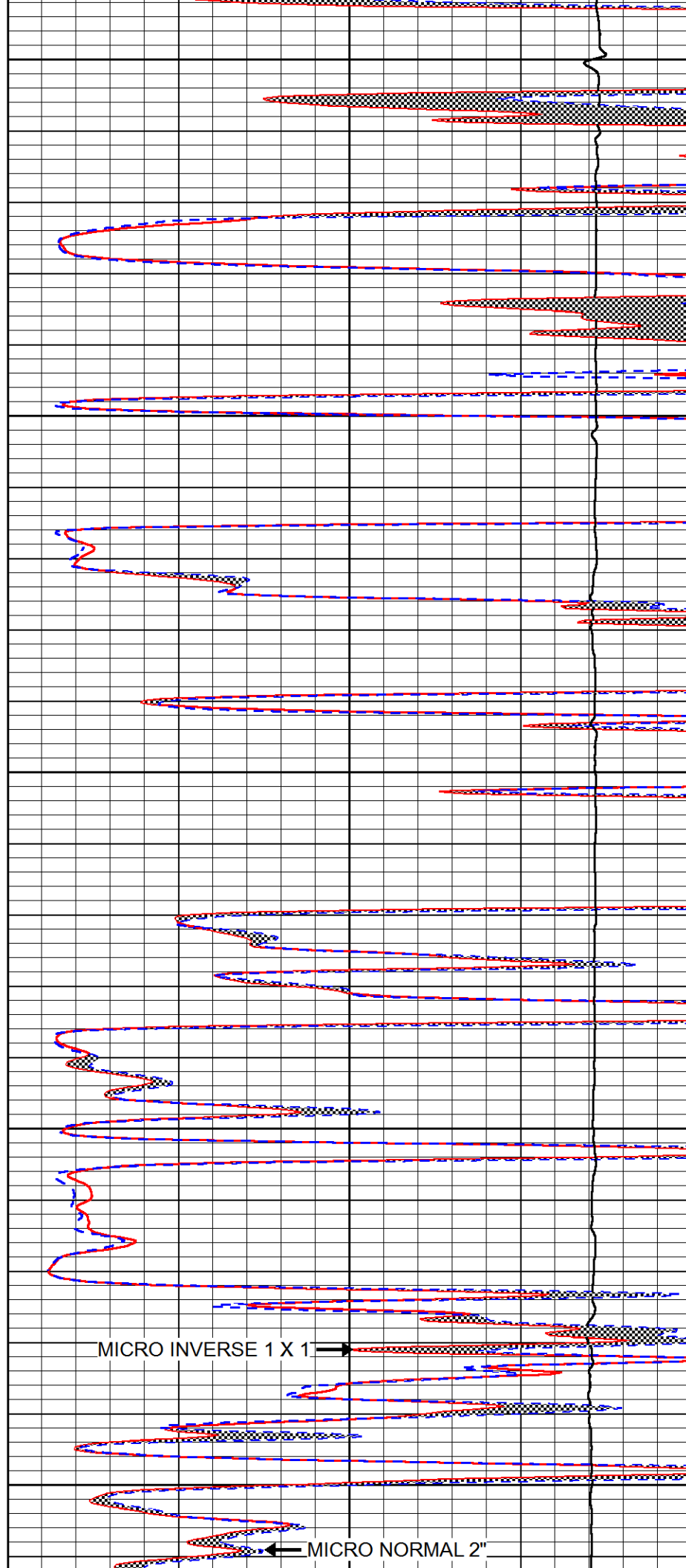
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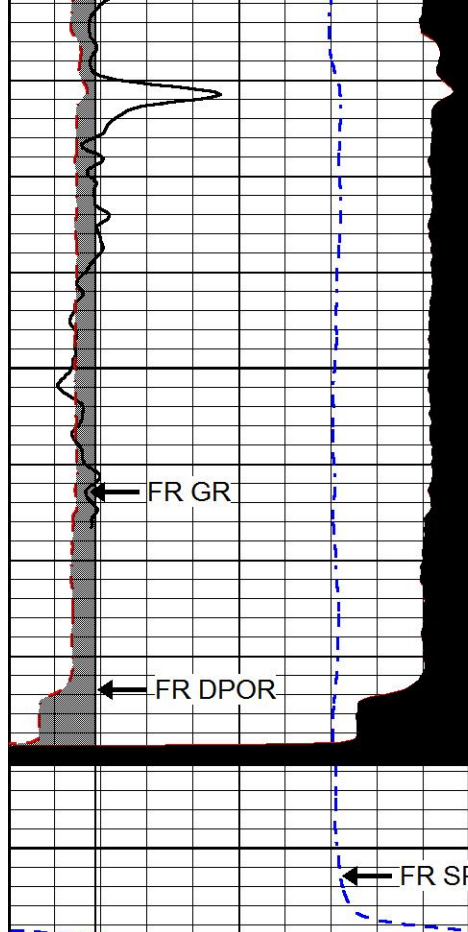
3500

3550

3600

3650

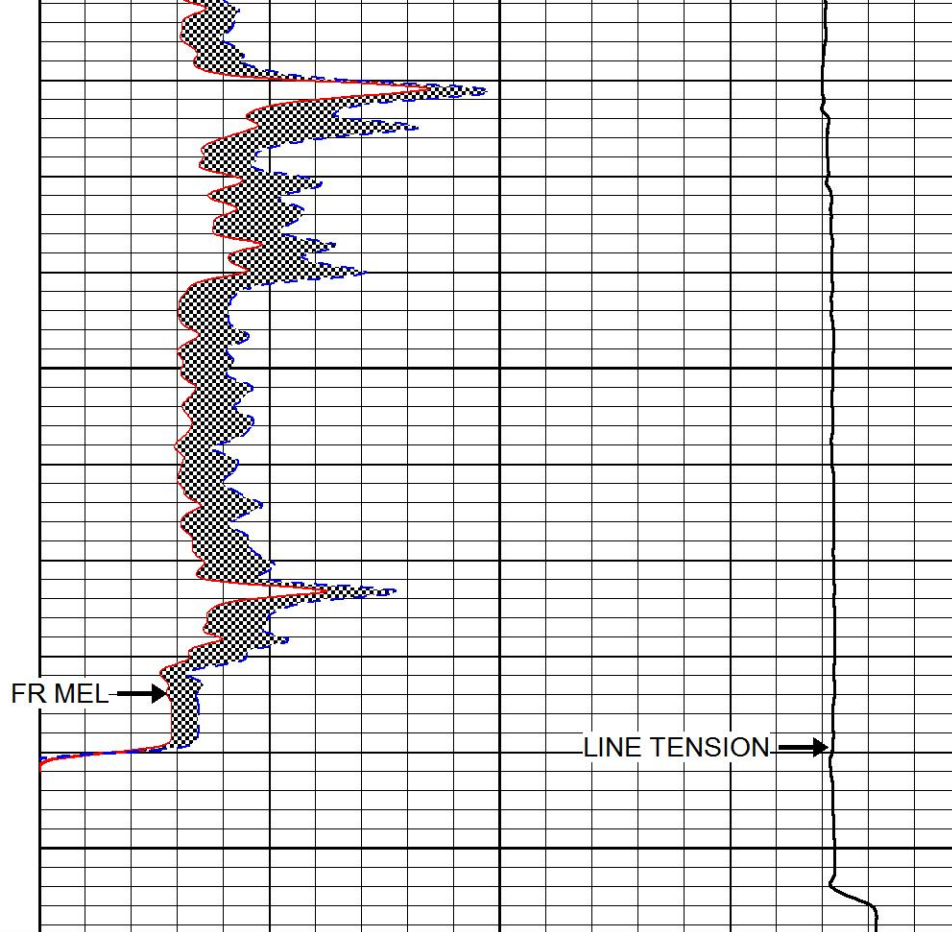




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MIDWEST WIRELINE

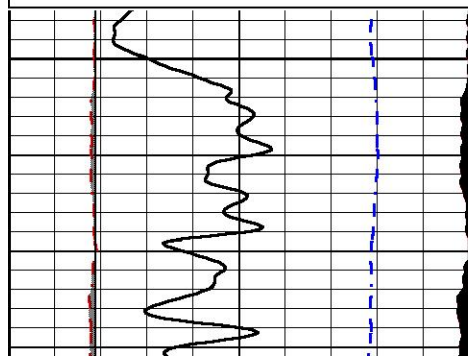
REPEAT SECTION

REPEAT PASS

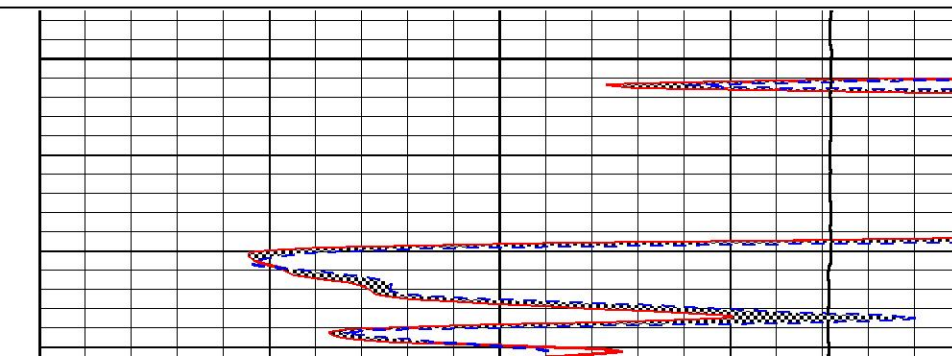
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 Dataset Pathname StkMI/pass2.1
 Presentation Format micro
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 Charted by Depth in Feet scaled 1:240

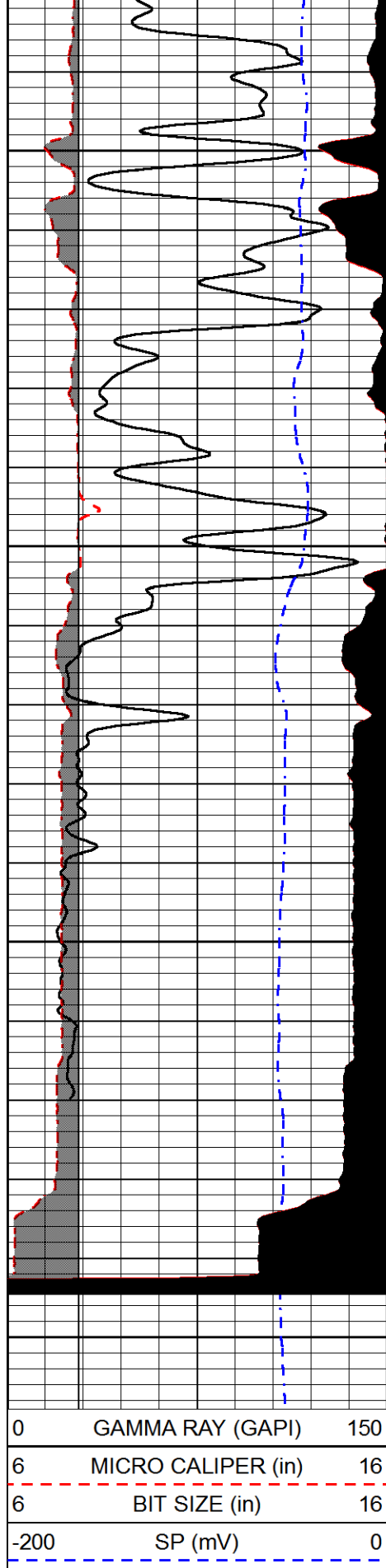
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3550



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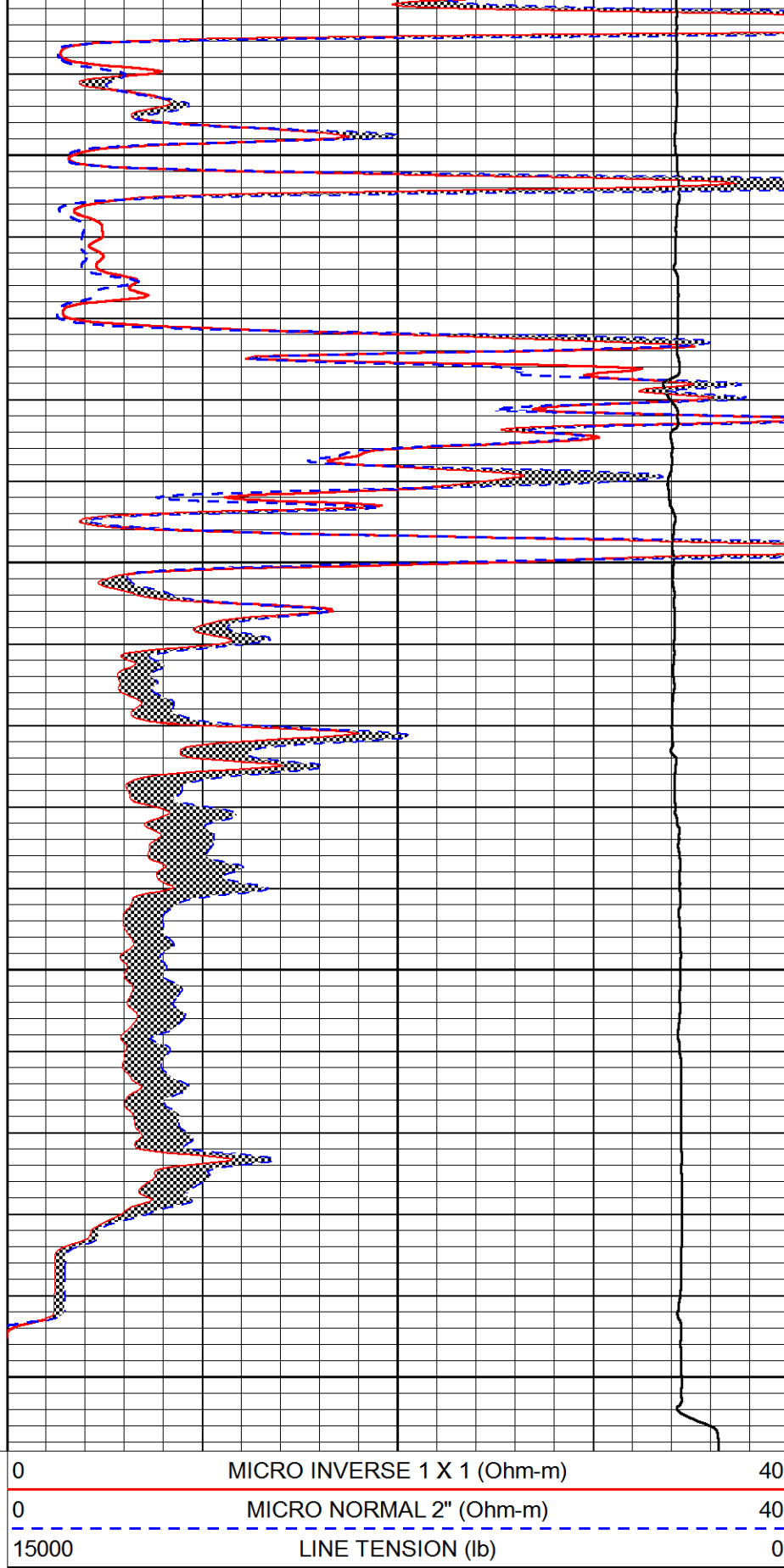


3600

3650

3700

3750



Calibration Report

Database File tdi_linda_#1.db
 Dataset Pathname StkMI/pass3.1
 Dataset Creation Thu Jul 01 11:49:38 2021

Dual Induction Calibration Report							
Serial-Model: Calibration Performed:				959-1032-PSI HIGH TEMP Thu Feb 25 23:27:57 2021			
		Readings		References		Results	
Loop:	Air	Loop		Air	Loop	Gain	Offset
Deep	178.615	710.235		0.000	255.800 mmho/m	0.650	-5.750
Medium	161.982	1441.110		0.000	255.800 mmho/m	0.450	-42.500

Microlog Calibration Report							
Serial-Model: Performed:				PSI-02-PSI STKBL ML Sat Apr 07 12:01:20 2018			
		Readings		References		Results	
	Zero	Cal		Zero	Cal	m	b
Normal	0.0031	0.0043		0.0000	10.0000 Ohm-m	25000.0000	-1.0000
Inverse	0.0000	0.0013		0.0000	10.0000 Ohm-m	25000.0000	0.0000
Caliper	1.0020	1.0834		5.5000	16.5000 in	135.1560	-131.3000

Compensated Density Calibration Report					
Serial-Model:		915-956-M&W			
Source / Verifier:		/			
Master Calibration Performed:		Mon May 10 06:44:16 2021			
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 Performed:		Wed Nov 16 11:21:36 2016		
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: Tool Model: Calibration Performed:				89-M&W M&W Mon May 10 06:44:25 2021			

Calibration performed:

Monday, 16 Oct 11:20 2011

Calibrator Value:

1000.0

GAPI

Background Reading:

0.0

cps

Calibrator Reading:

6.2

cps

Sensitivity:

0.5200

GAPI/cps



MIDWEST WIRELINE

Company

TDI, Inc.

Well

Linda #1

Field

Dechant

County

Ellis

State

Kansas