



MICRORESISTIVITY LOG

PIONEER
Pioneer Energy Services

Company BENNETT & SCHULTE OIL CO.
Well G MAULER #22-1
Field N/A
County BARTON
State KANSAS

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County BARTON
State KANSAS

Location: API #: 15-009-26213-00-00

Other Services

SEC 22 TWP 18S RGE 15W
2146' FSL & 1294' FEL

RAG

Permanent Datum GROUND LEVEL Elevation 1924'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1930'
D.F. N/A
G.L. 1924'

Date	4/26/2018		
Run Number	TWO		
Depth Driller	3631'		
Depth Logger	3629'		
Bottom Logged Interval	3628'		
Top Log Interval	2800'		
Casing Driller	8.625" @ 935'		
Casing Logger	934'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	5000		
Density / Viscosity	9.4 50		
pH / Fluid Loss	9.0 8.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.60 @ 50		
Rmt @ Meas. Temp	0.45 @ 50		
Rmc @ Meas. Temp	0.81 @ 50		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.27 @ 112		
Operating Rig Time	4 HOURS		
Max Rec. Temp. F	112		
Equipment Number	91		
Location	HAYS		
Recorded By	D. SCHMIDT		
Witnessed By	BOB HOPKINS		

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, 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.

OLMITZ,
3 SOUTH OF HWY 4,
1 WEST, 1 1/2 SOUTH,
WEST INTO

Log Measured From: KELLY BUSHING 6 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew

Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: BOB HOPKINS
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

SPSHIFT mV -10	AIR_HOLE? No	NPORSEL Limestone	MudWgt lb/gal 9.5	SRFTEMP degF 50	CASETHCK in 0	CASEOD in 5.5	PERFS 0
TDEPTH ft 3629	BOTTEMP degF 112	BOREID in 7.875					

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			ML-Armadillo (ARM001) Pengo Mandrel & Armadillo ML Electronics (2014)	5.50	3.50	100.00
MCAL	1.00					
MI	1.00					
MN	1.00					

Dataset: bennett schulte_g mauler 22-1.db: field/well/MEL/pass2

Total length: 5.50 ft

Total weight: 100.00 lb

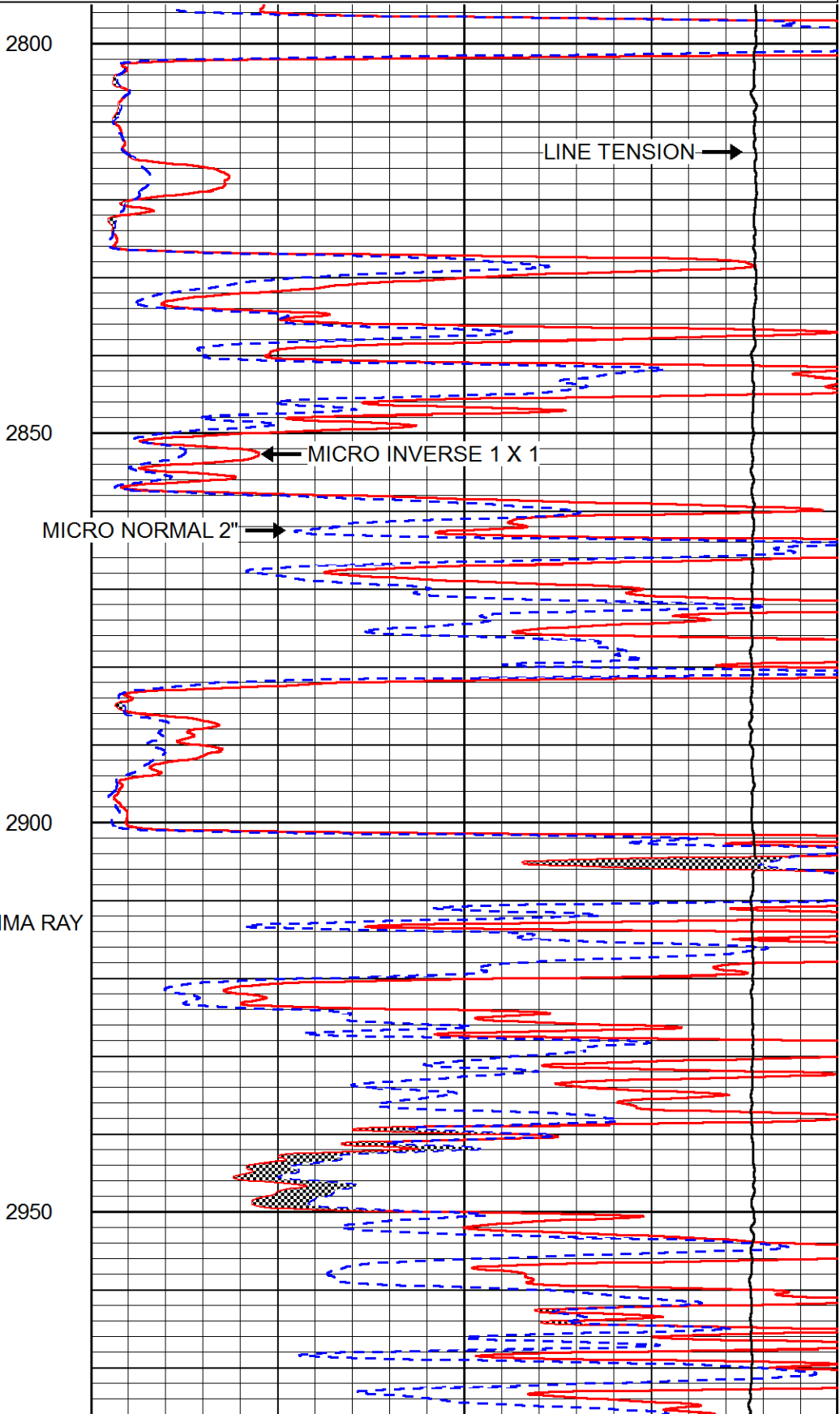
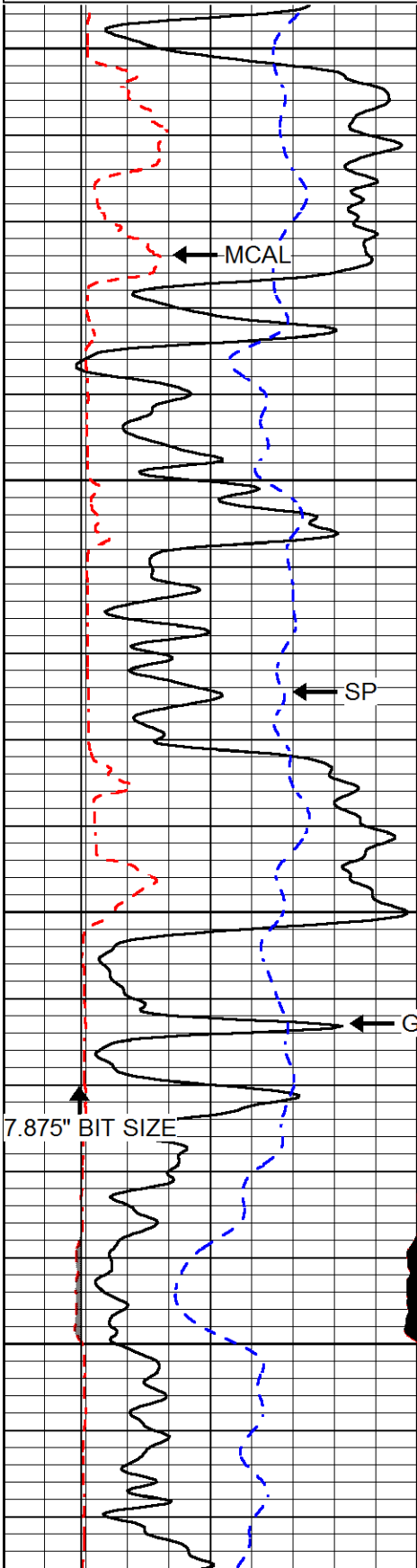
O.D.: 3.50 in

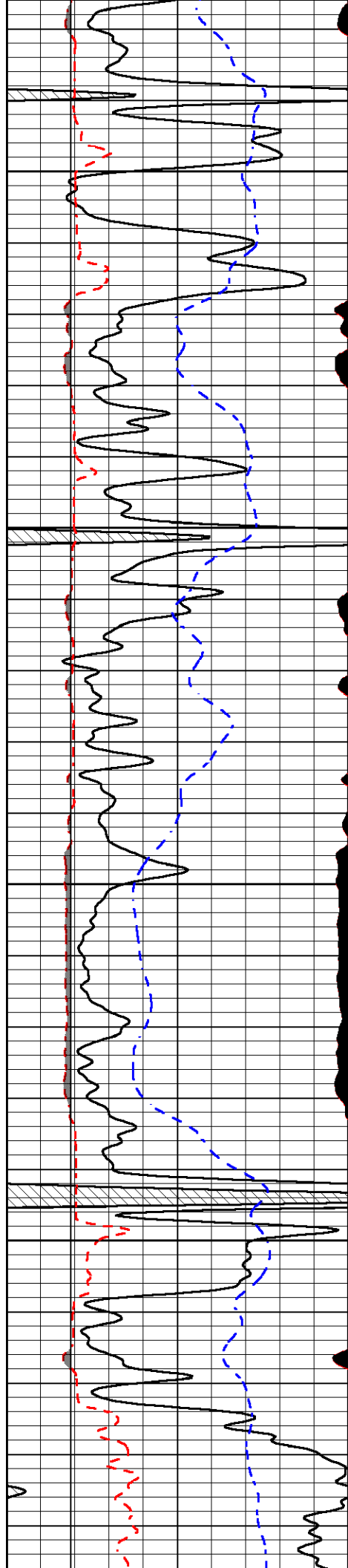


MAIN PASS

0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
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



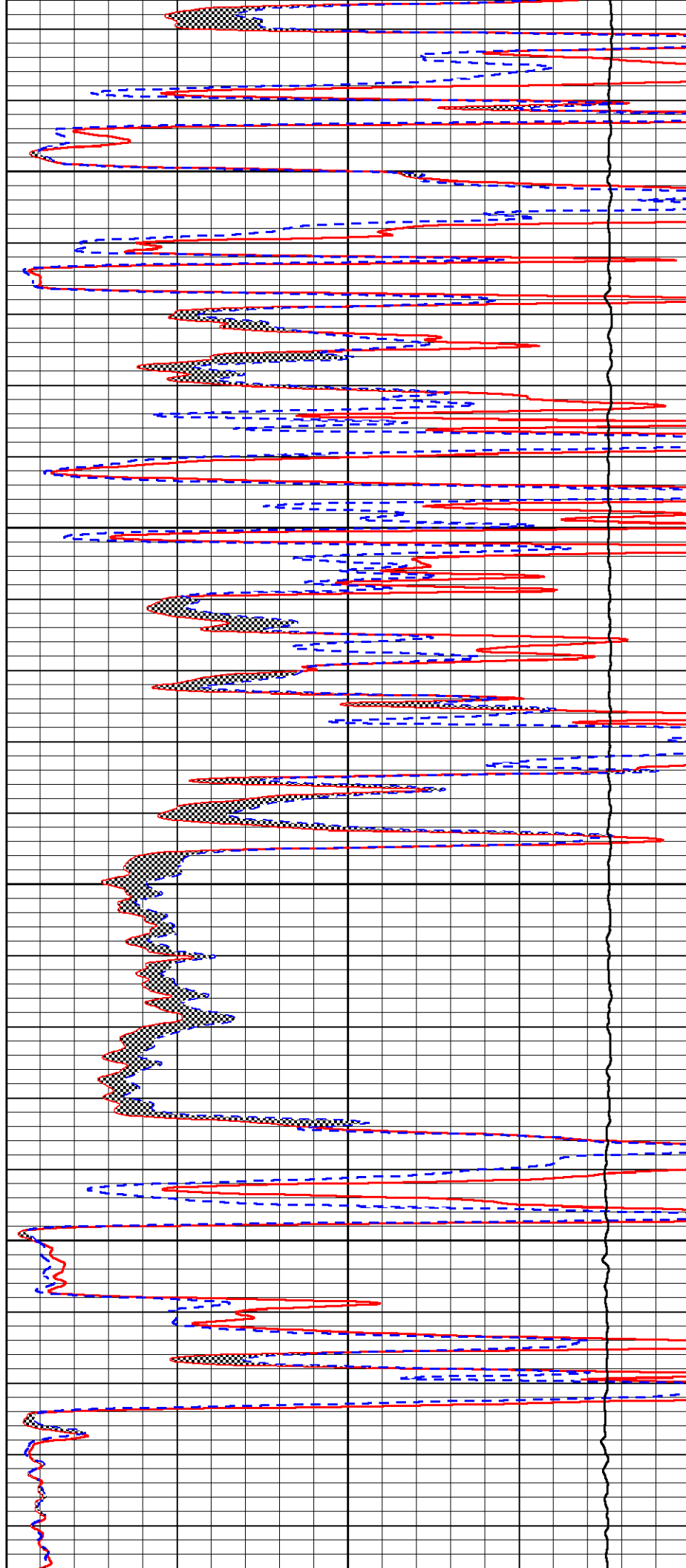


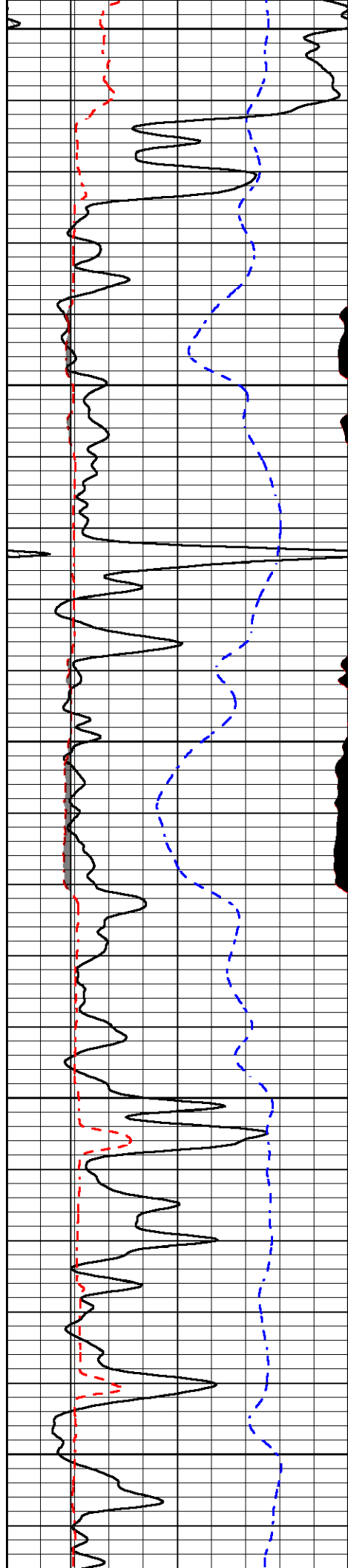
3000

3050

3100

3150





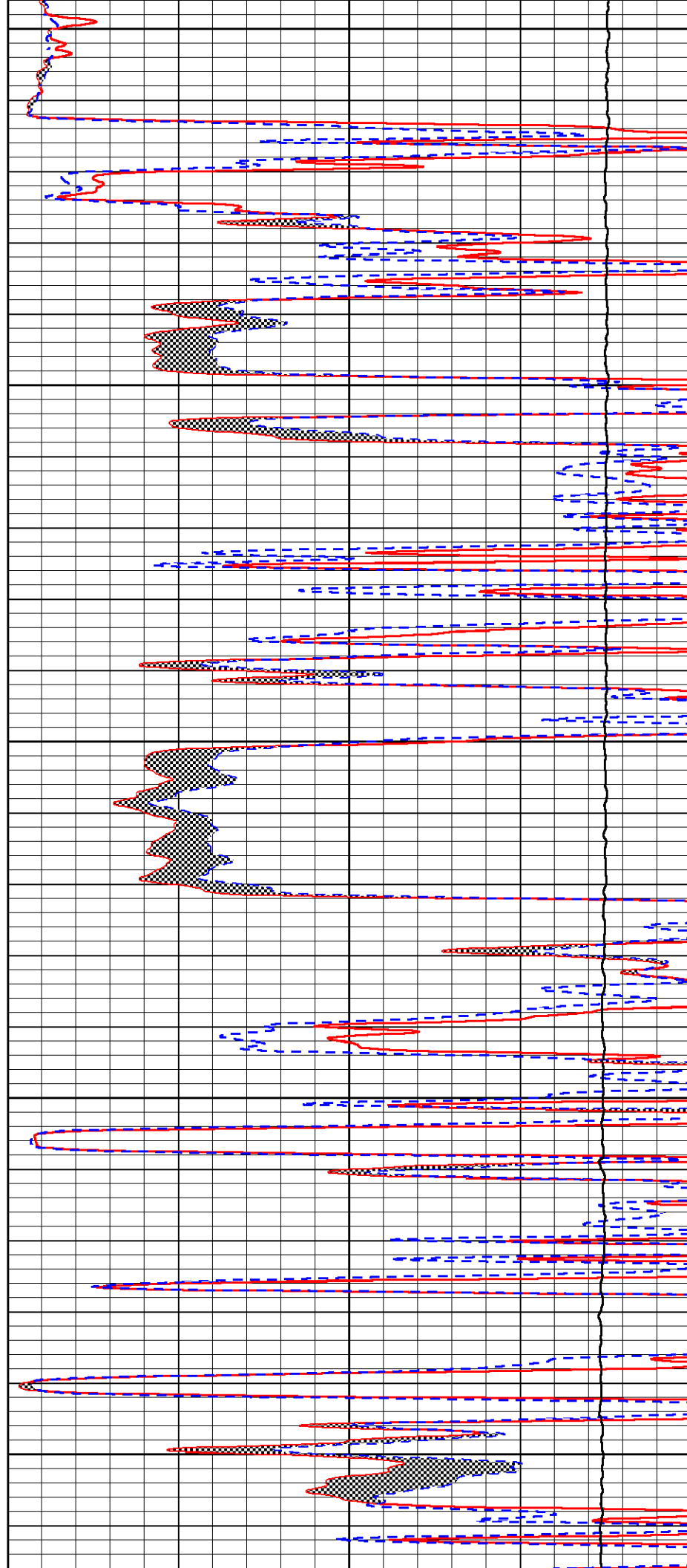
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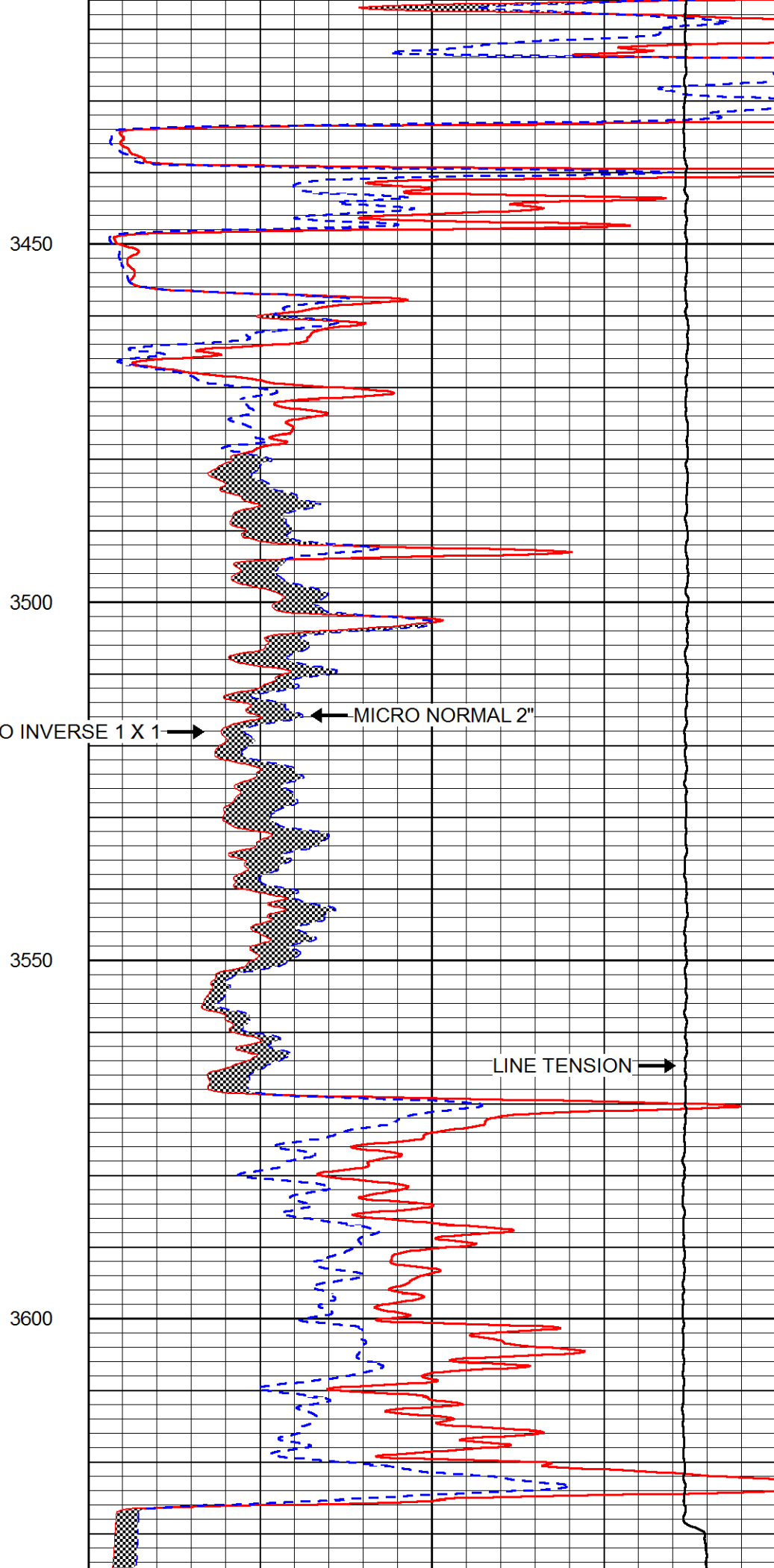
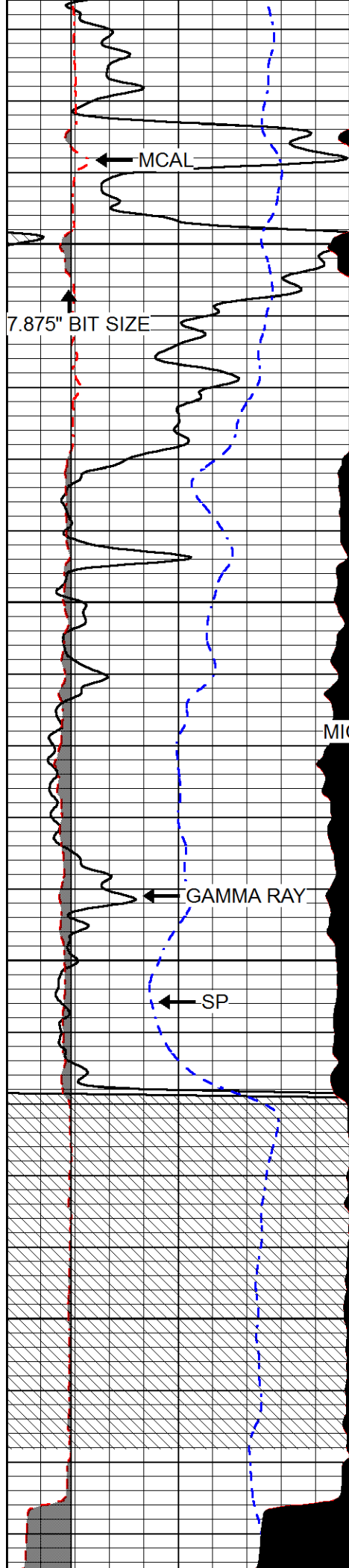
3250

3300

3350

3400





0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
2.875	mcals (in)	7.875
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

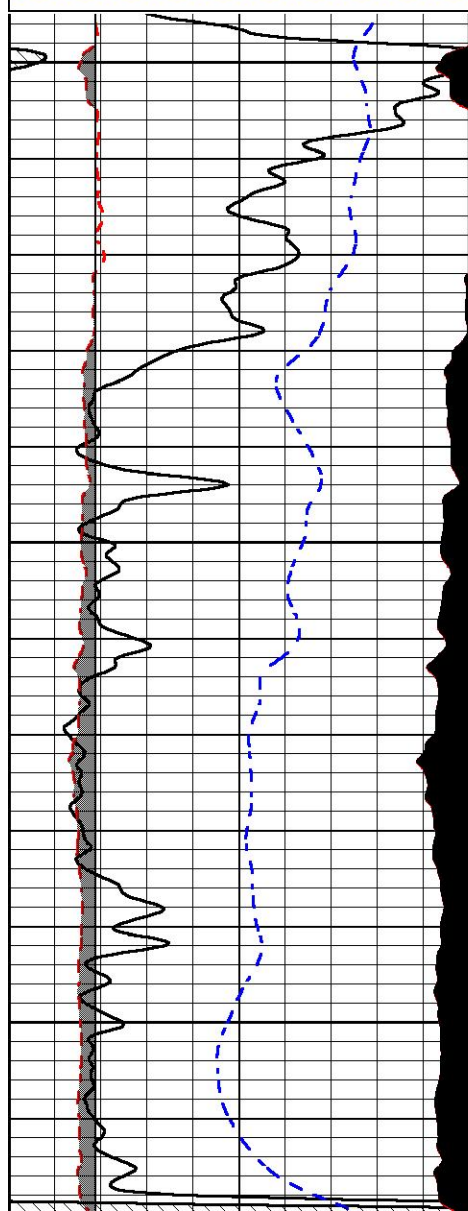


REPEAT SECTION

Database File bennett schulte_g mauler 22-1.db
Dataset Pathname RAG/pass2.1
Presentation Format micro
Dataset Creation Thu Apr 26 07:02:12 2018
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
2.875	mcals (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

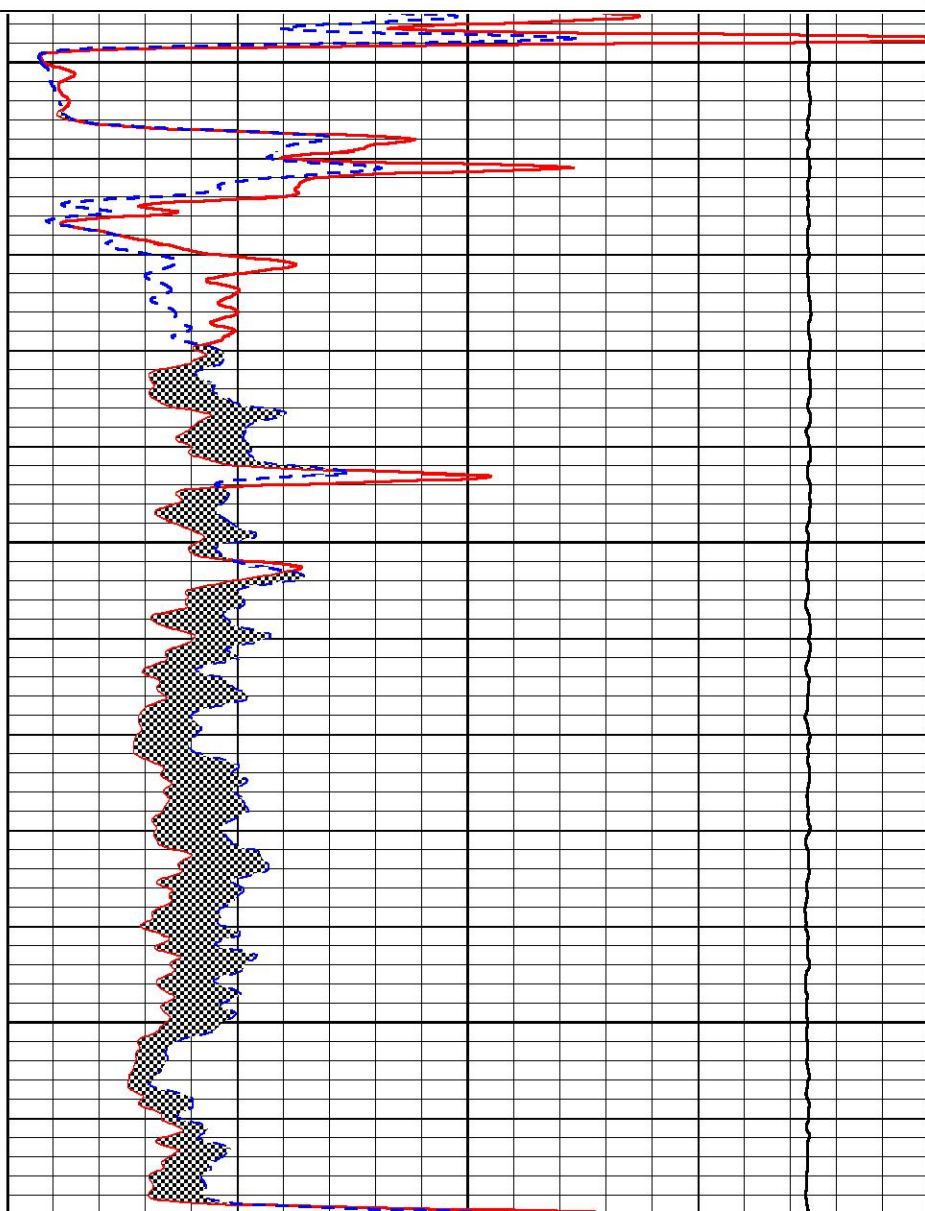
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0

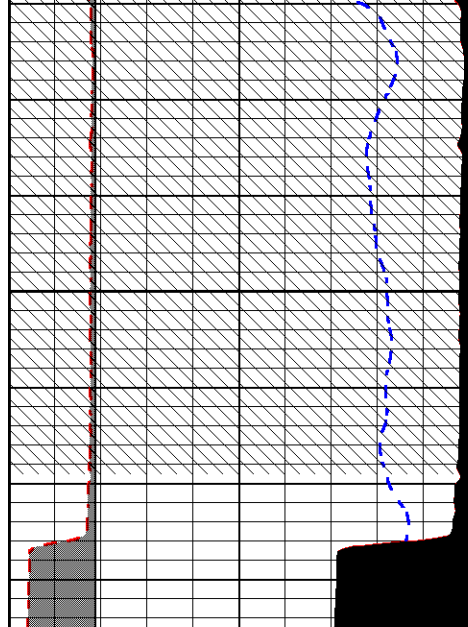


3450

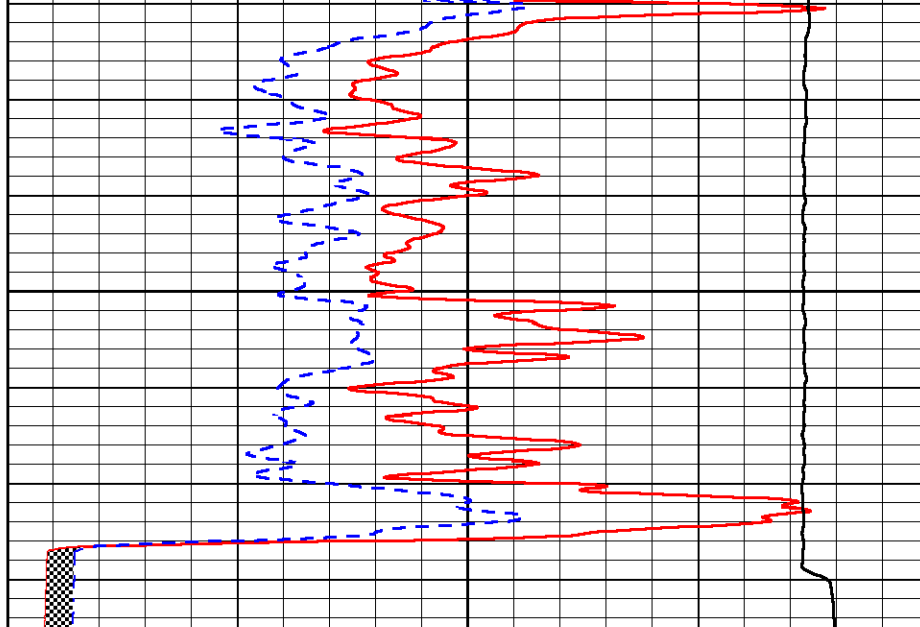
3500

3550





3600



0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
2.875	mcals (in)	7.875
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

Calibration Report

Database File bennett schulte_g mauler 22-1.db
 Dataset Pathname RAG/pass3.1
 Dataset Creation Thu Apr 26 07:36:41 2018

Sidewall Neutron Calibration Report

Serial Number: SP162-87
 Tool Model: M&W-SP

SWN Calibration Mon Aug 08 12:41:49 2016

Readings	Target	Normalization
2566.42 cps	1085.00 cps	0.5200

Caliper Calibration Mon Aug 08 12:41:49 2016

Readings	Reference	Gain	Offset
0.86	4.00	-24.00	21.70
0.26	14.00		

Gamma Ray Calibration Report

Serial Number: 89
 Tool Model: M&W
 Calibration Performed: Mon Jan 15 11:20:44 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps

Calibration Report

Database File bennett schulte_g mauler 22-1.db
Dataset Pathname MEL/pass2
Dataset Creation Thu Apr 26 08:25:49 2018

Microlog Calibration Report

Serial-Model: ARM001-Armadillo
Performed: Fri Jul 14 14:07:44 2017

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0127	0.6730	V	0.0000	10.0000	Ohm-m	25.5000	-2.4000
Inverse	0.0029	0.8729	V	0.0000	10.0000	Ohm-m	22.0000	-1.5000
Caliper	1.1319	8.2966	V	6.0000	19.0000	in	3.0000	1.2750

			Company	BENNETT & SCHULTE OIL CO.
			Well	G MAULER #22-1
			Field	N/A
			County	BARTON
			State	KANSAS