



MIDWEST WIRELINE

MICRORESISTIVITY LOG

Company: WEBCO Oil Company, Inc.
 Well: Schauf W #1
 Field: Kraft-Prusa
 County: Barton
 State: Kansas

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 County: Barton
 State: Kansas

Location: API #: 15-009-26377-00-00
 730 FSL & 473 FEL
 SEC 2 TWP 16S RGE 12W
 Permanent Datum: Ground Level Elevation: 1905
 Log Measured From: Kelly Bushing
 Drilling Measured From: Kelly Bushing
 Other Services: CNL/CDL DIL/BHCS
 Elevation: 1915
 K.B. 1915
 D.F.
 G.L. 1905

Date	1/29/2023
Run Number	One
Depth Driller	3410
Depth Logger	3410
Bottom Logged Interval	3409
Top Log Interval	2800
Casing Driller	8:625 @ 341
Casing Logger	351
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	5000
Density / Viscosity	9.3 53
pH / Fluid Loss	9.5 9.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.50 @ 45
Rmt @ Meas. Temp	0.38 @ 45
Rmc @ Meas. Temp	0.68 @ 45
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.20 @ 110
Operating Rig Time	4 Hours
Max Rec. Temp. F	110
Equipment Number	P-108
Location	HAYS
Recorded By	D. Schmidt
Witnessed By	Jim Musgrove

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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.

Beaver,
 2 East, 2 1/2 North,
 West 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: D. Schmidt	Operator:	Primary Witness: Jim Musgrove	Secondary Witness:
Operator:	Operator:	Secondary Witness:	Secondary Witness:
Operator:		Secondary Witness:	

Operator	Offset (ft)	Substrate	Description	Length (ft)	O.D. (in)	Weight (lb)
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Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (103)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (210)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (306-06)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSI STKBL ML (402)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (504 HT)	18.25	3.50	220.00
CILM	4.50					
SP	0.20					

Dataset: webco_schauf w 1.db: field/well/stkml/pass8.1
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\webco_schauf w 1.db
 Dataset field/well/stkml/pass8.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	110	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	348	10	Off	3410

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



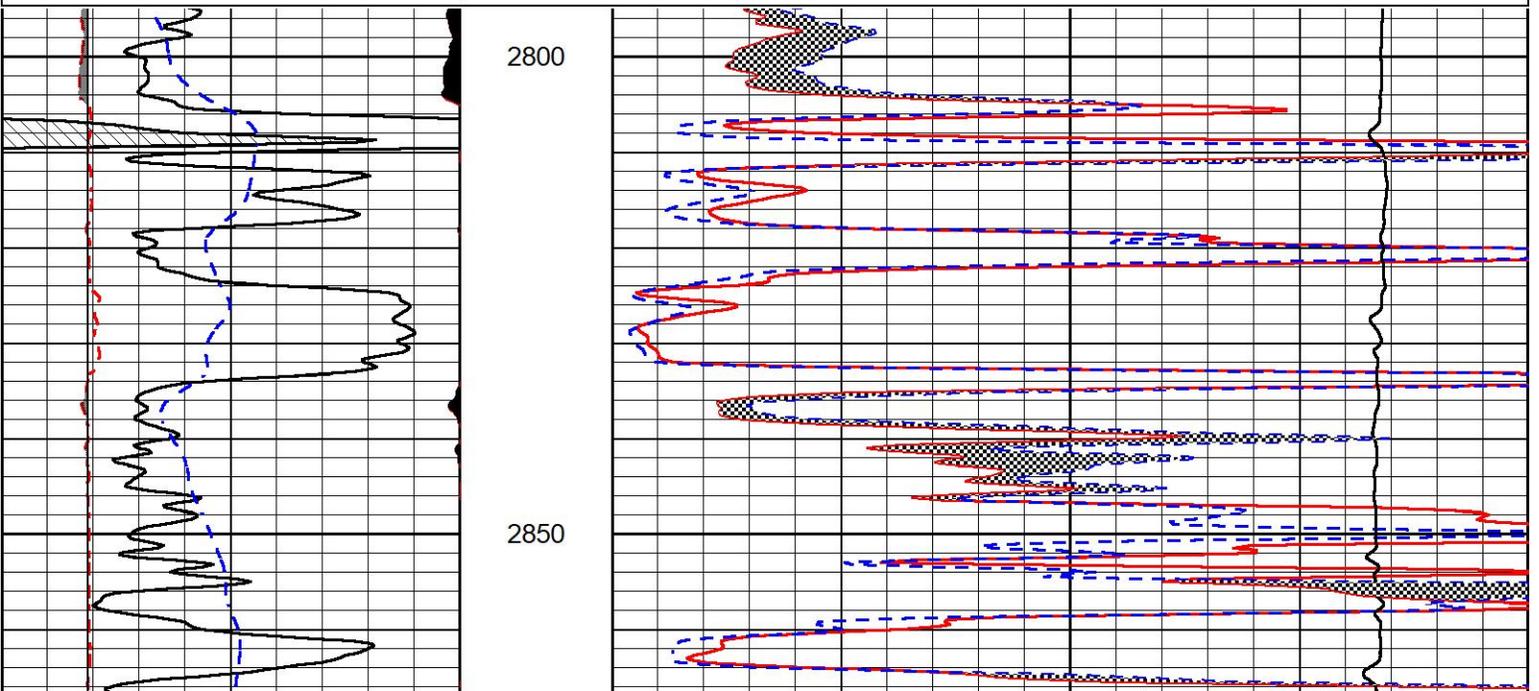
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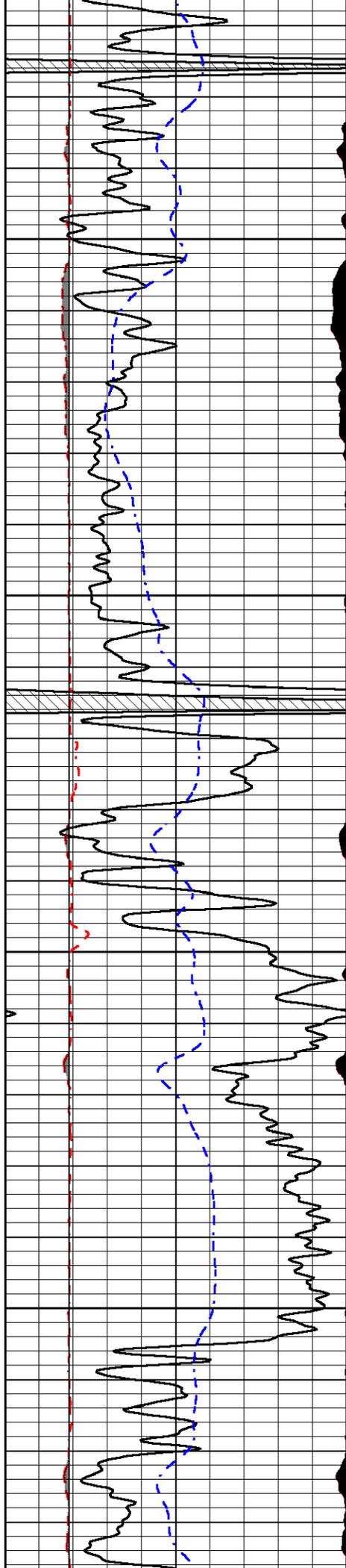
MAIN PASS

Database File webco_schauf w 1.db
 Dataset Pathname stkml/pass8.1
 Presentation Format _micro
 Dataset Creation Sun Jan 29 12:18:18 2023
 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



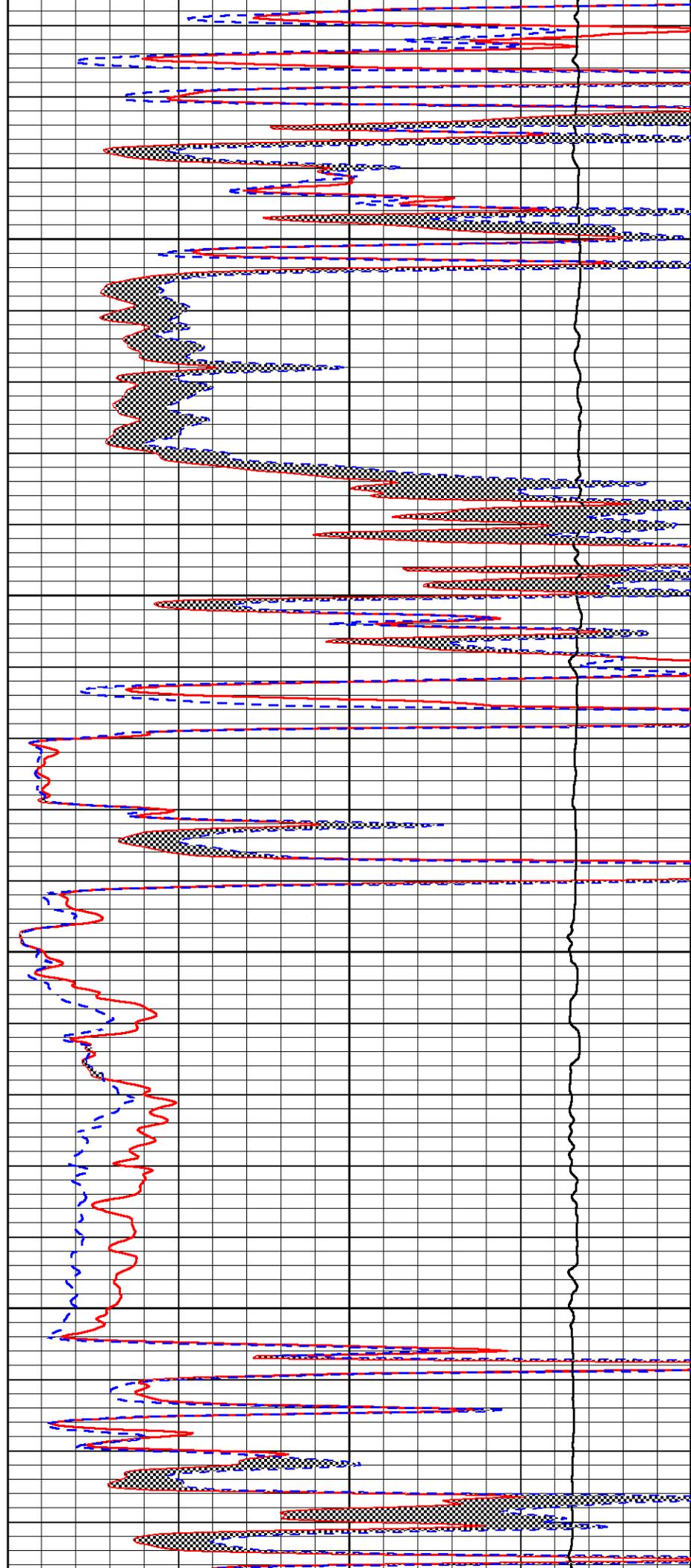


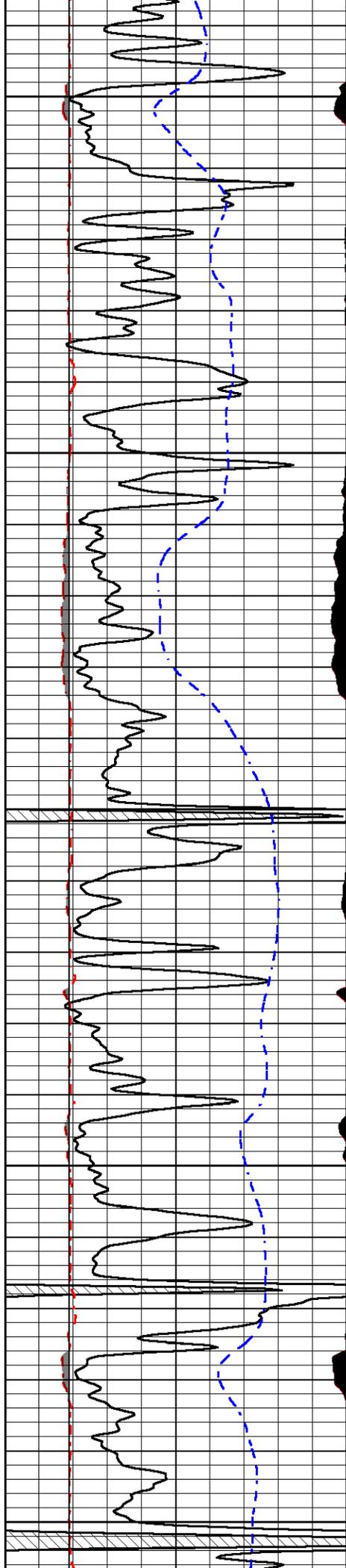
2900

2950

3000

3050





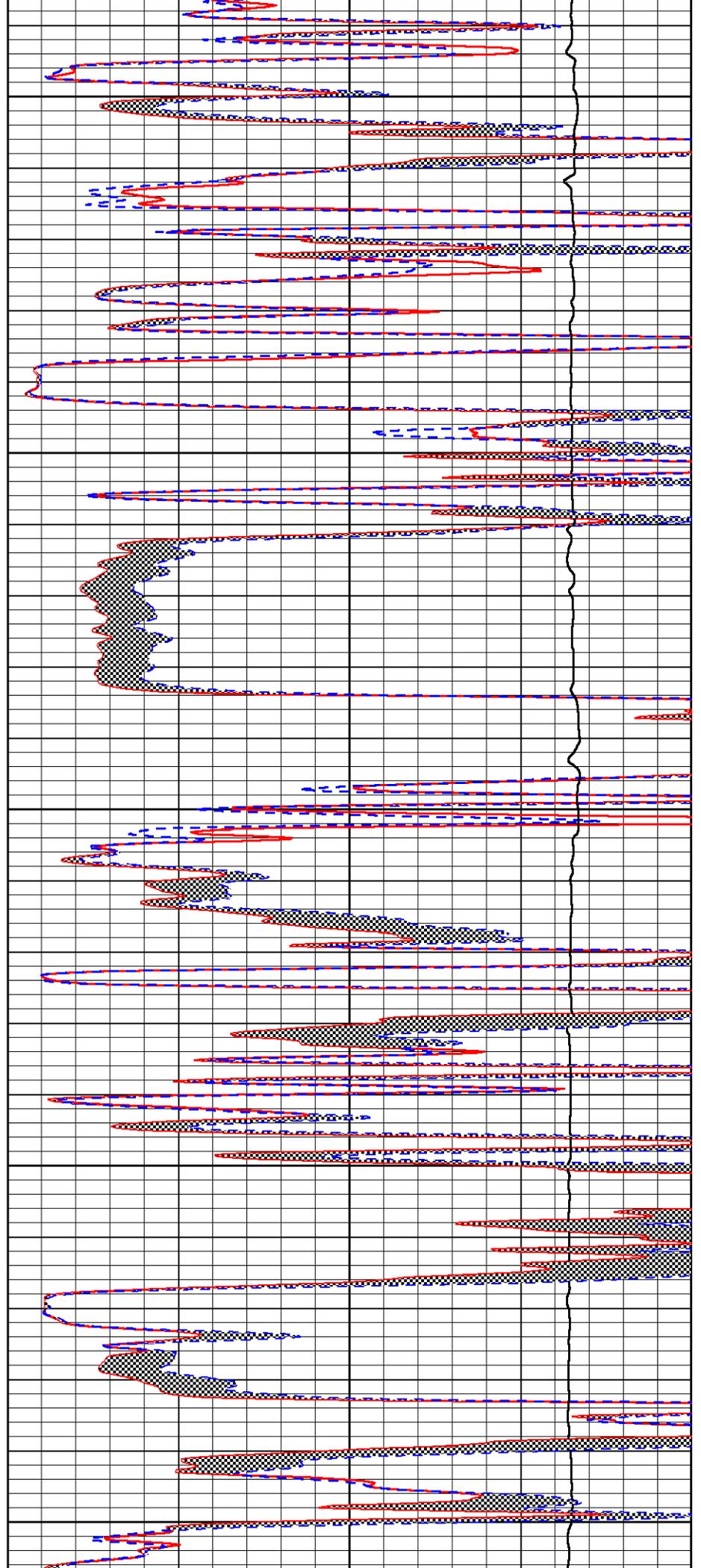
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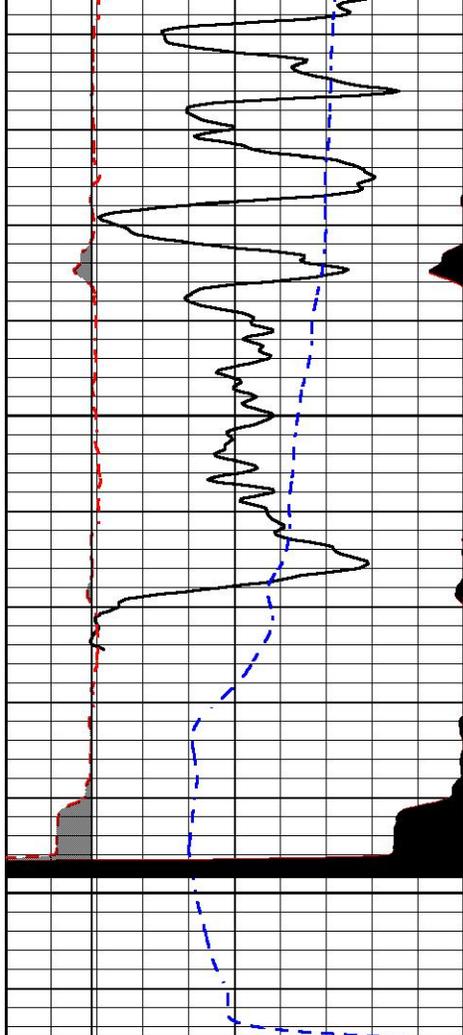
3150

3200

3250

3300

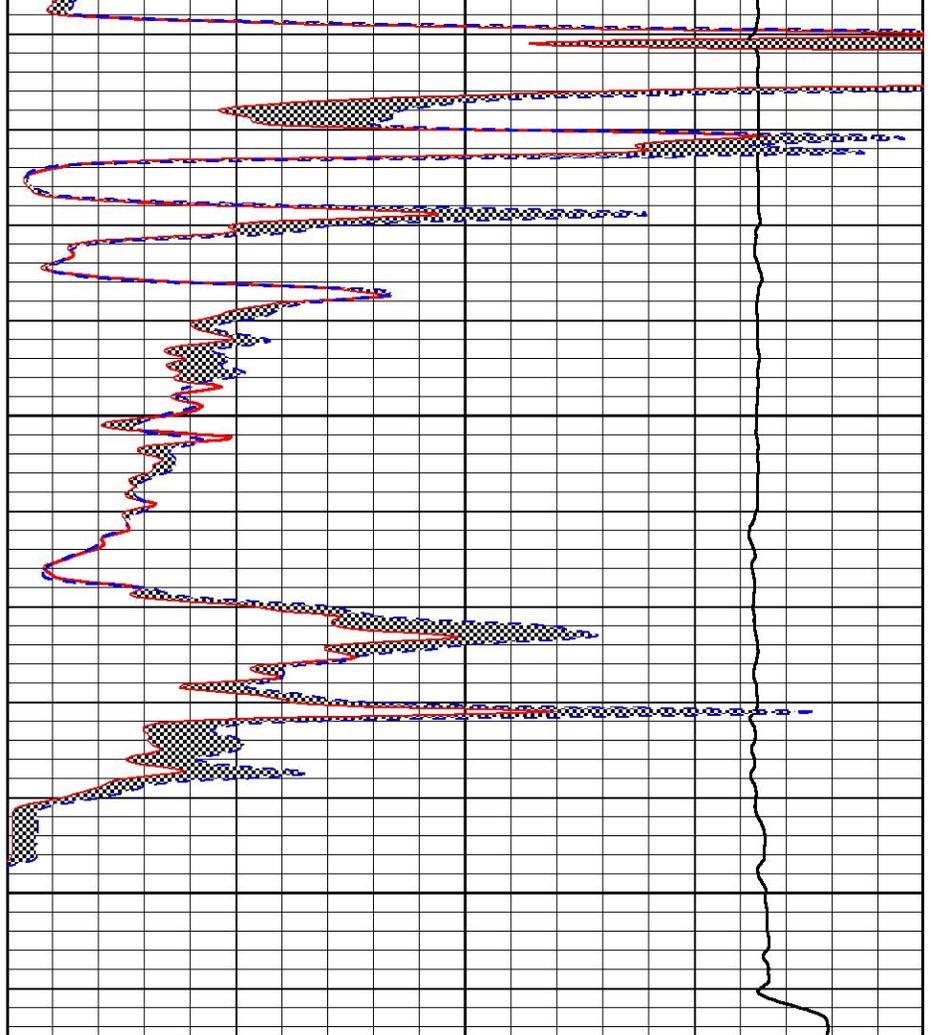




3350

3400

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	mcal (in)	7.875
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0	Micro Inverse 1 X 1 (Ohm-m)	40
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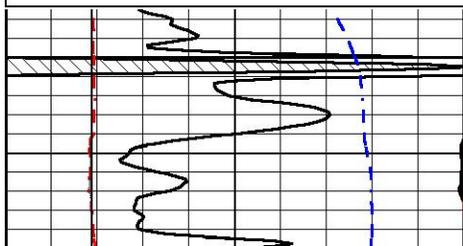
REPEAT SECTION

REPEAT PASS

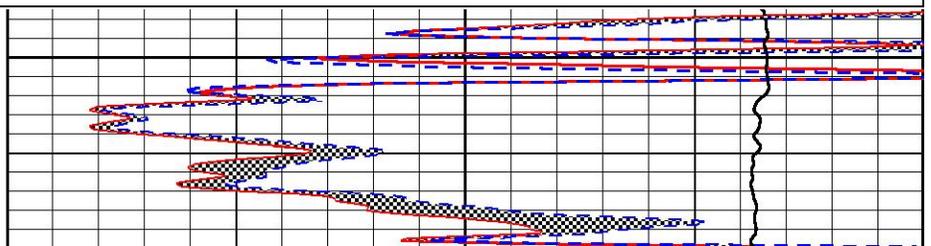
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 Presentation Format _micro
 Dataset Creation Sun Jan 29 05:27:22 2023
 Charted by Depth in Feet scaled 1:240

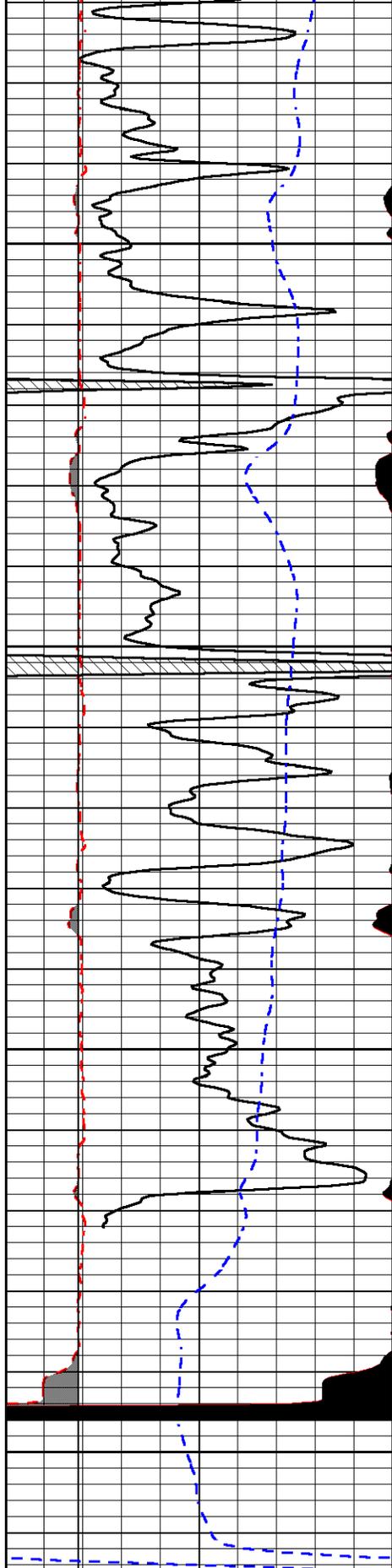
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2.875	mcal (in)	7.875
-200	SP (mV)	0

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



3200





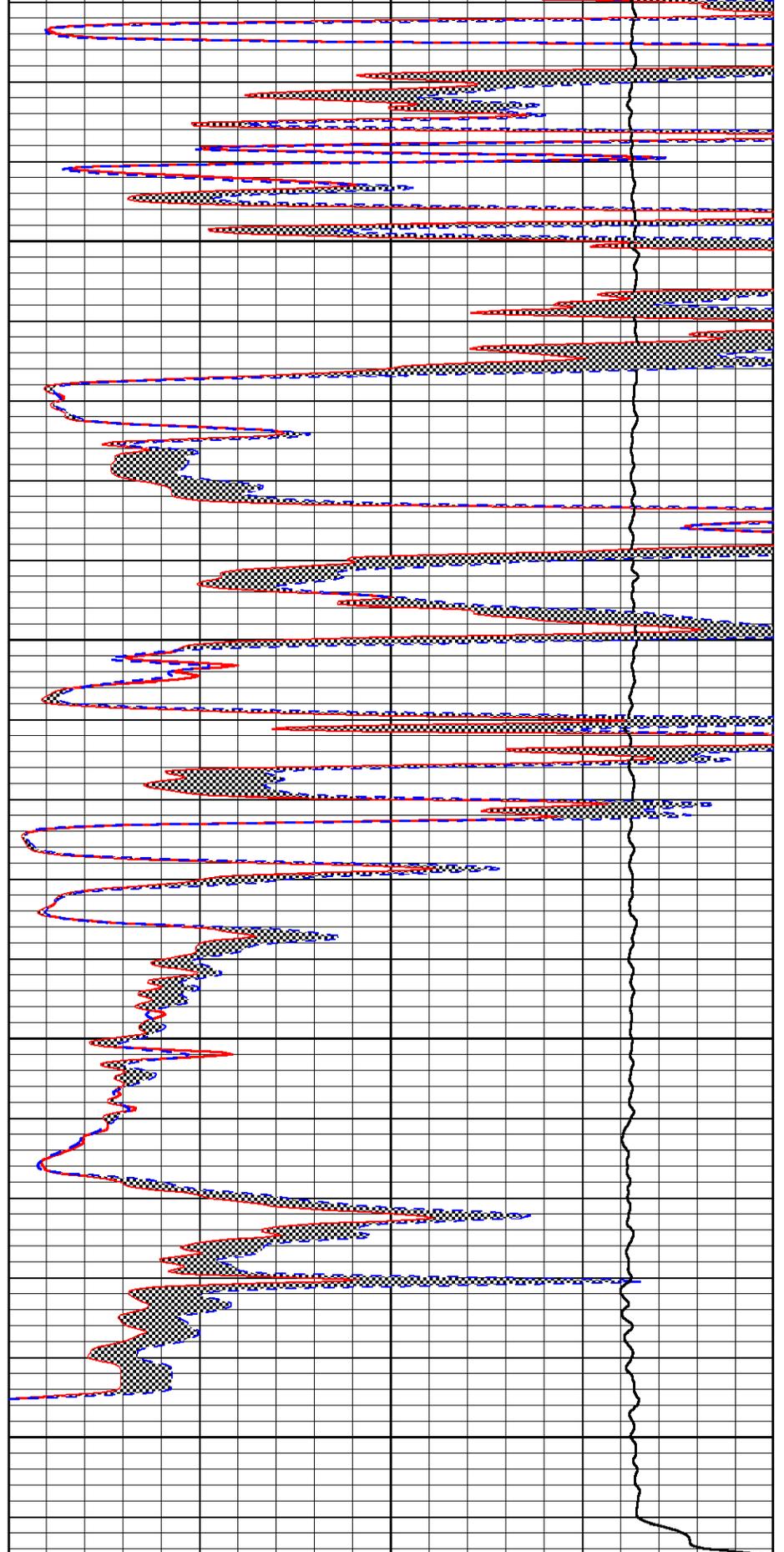
3250

3300

3350

3400

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

Gamma Ray Calibration Report

Serial Number:	103	
Tool Model:	M&W	
Performed:	Wed Jan 25 21:25:33 2023	
Calibrator Value:	500.0	GAPI
Background Reading:	28.0	cps
Calibrator Reading:	986.0	cps
Sensitivity:	0.5700	GAPI/cps



Company	WEBCO Oil Company, Inc.
Well	Schauf W #1
Field	Kraft-Prusa
County	Barton
State	Kansas