



PIONEER
Pioneer Energy Services

MICRORESISTIVITY LOG

Company CARMEN SCHMITT, INC.
Well WP UNIT #5-7
Field WILDCAT
County TREGO
State KANSAS

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Location: API #: 15-195-23053-00-00

2200' FSL & 2310' FWL

SEC 7 TWP 14S RGE 25W

Permanent Datum GROUND LEVEL Elevation 2424'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Other Services
CNL/CDL
DIL
Elevation
K.B. 2429'
D.F. N/A
G.L. 2424'

Date 05/21/2018

Run Number	ONE		
Depth Driller	4340'		
Depth Logger	4343'		
Bottom Logged Interval	4342'		
Top Log Interval	3400'		
Casing Driller	8.625" @ 217'		
Casing Logger	216'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	2000		
Density / Viscosity	9.3 57		
pH / Fluid Loss	10.5 6.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.70 @ 68		
Rmt @ Meas. Temp	0.53 @ 68		
Rmc @ Meas. Temp	0.95 @ 68		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.40 @ 119		
Operating Rig Time	3 HOURS		
Max Rec. Temp. F	119		
Equipment Number	91		
Location	HAYS		
Recorded By	IAN MABB		
Witnessed By	BRAD RINE		

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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.

COLLYER KANSAS,
SOUTH TO U ROAD, WEST TO FIRST TANK BATTERIES,
NORTH INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: IAN MABB
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: BRAD RINE
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	0	0
SNDERR mmho/m 0	SRFTEMP degF 68	CASETHCK in 0	CASEOD in 5.5	PERFS 0	TDEPTH ft 4343	BOTTEMP degF 119	BOREID in 7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (817-947)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

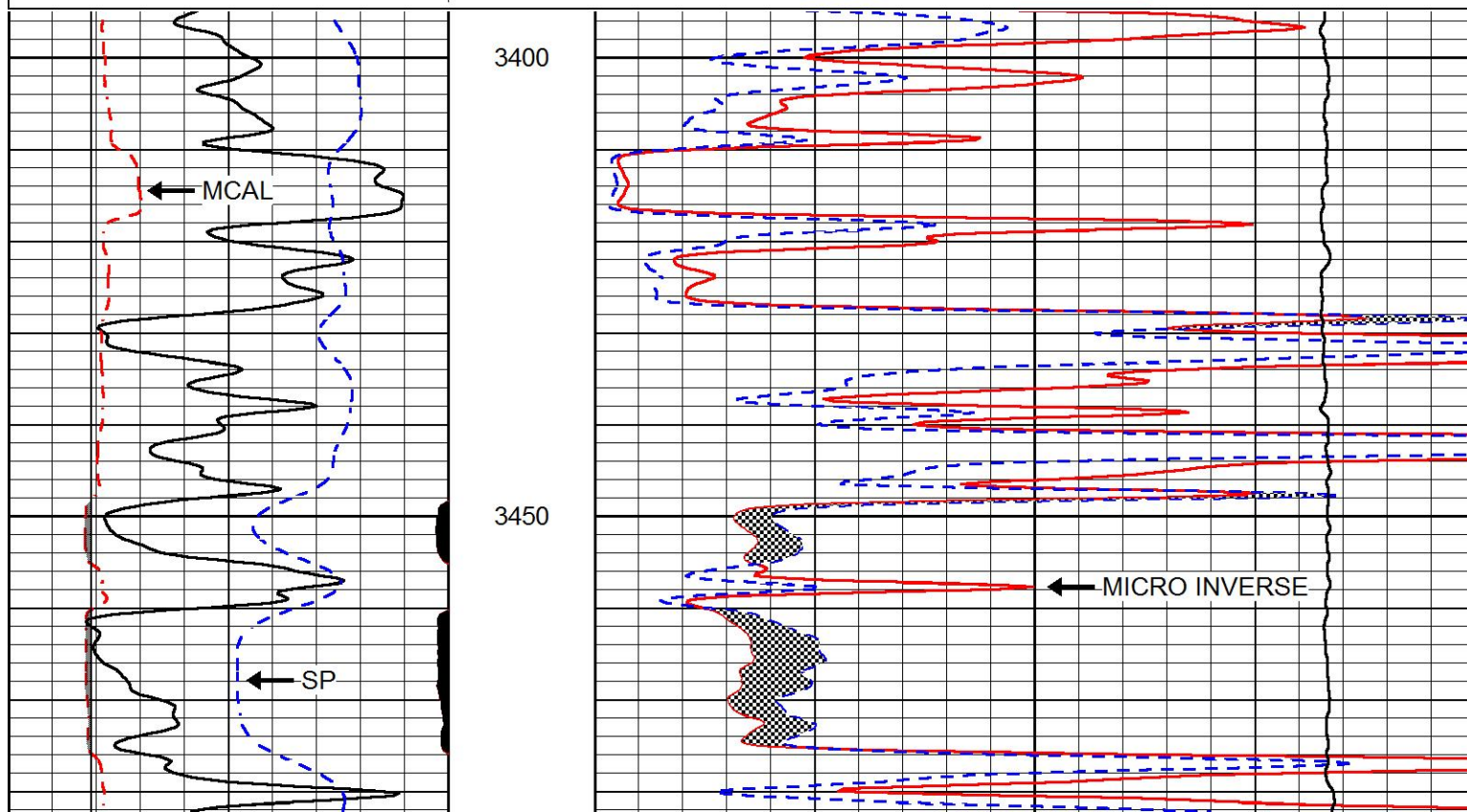
				DIL-PSI HIGH TEMP (933 (HT))	18.50	3.50	220.00
CILD	8.00						
CILM	4.70						
SP	0.20						
Dataset: carmen_schmitt_wp_unit_5_7.db: field/well/stkml/pass3.1 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in							

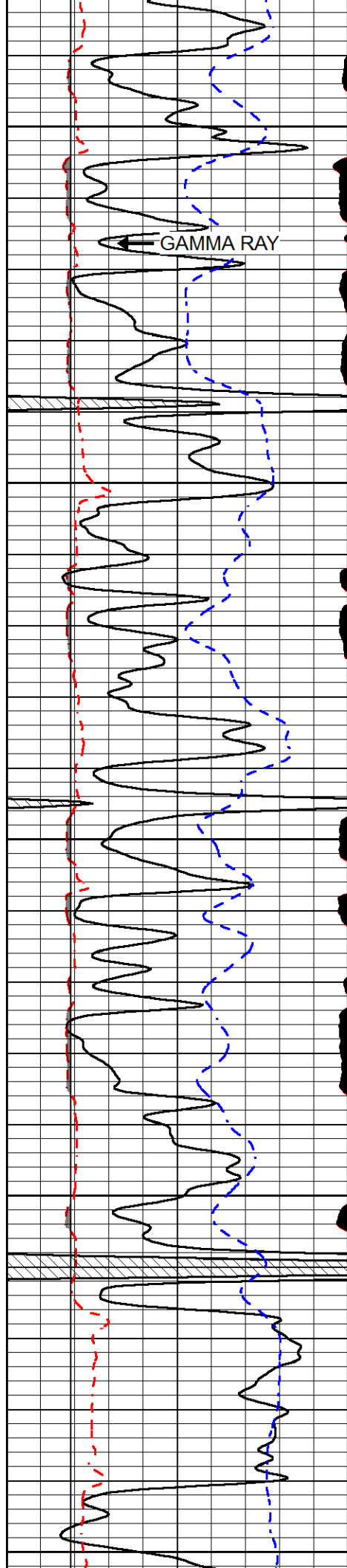


MAIN PASS

Database File	carmen_schmitt_wp_unit_5_7.db
Dataset Pathname	stkml/pass3.1
Presentation Format	micro
Dataset Creation	Mon May 21 12:27:21 2018
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0	MICRO INVERSE 1 X 1 (Ohm-m)	40
6	MCAL (in)	16	0	MICRO NORMAL 2" (Ohm-m)	40
2.875	mcals (in)	7.875	10000	Line Weight (lb)	0
6	Bit Size (in)	16			
-200	SP (mV)	0			





3500

GAMMA RAY

3550

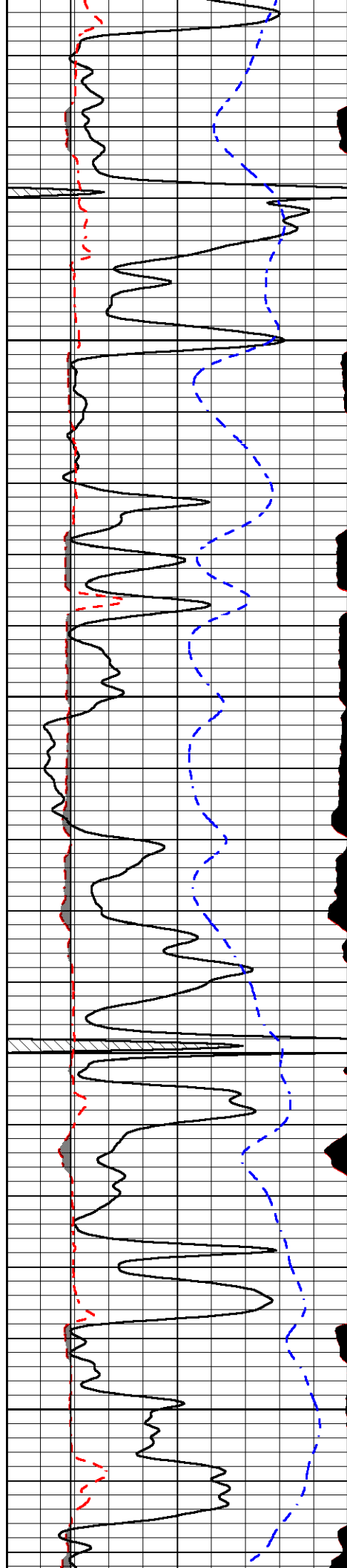
MICRO NORMAL

LINE WEIGHT

3600

3650

3700

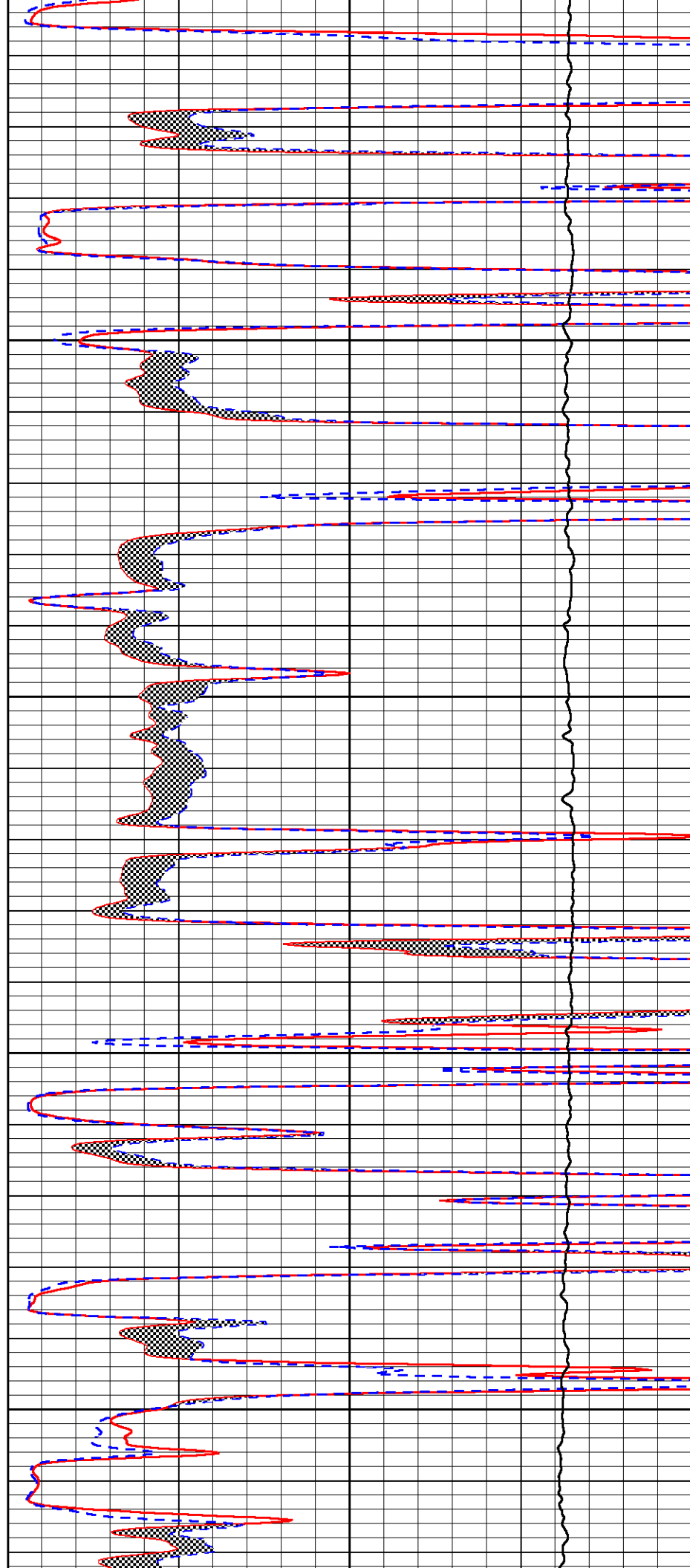


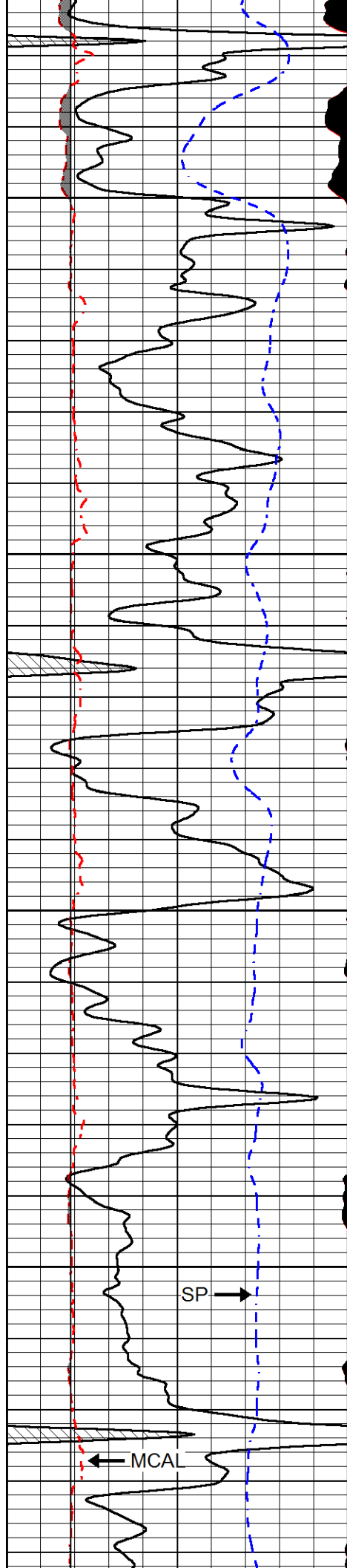
3750

3800

3850

3900



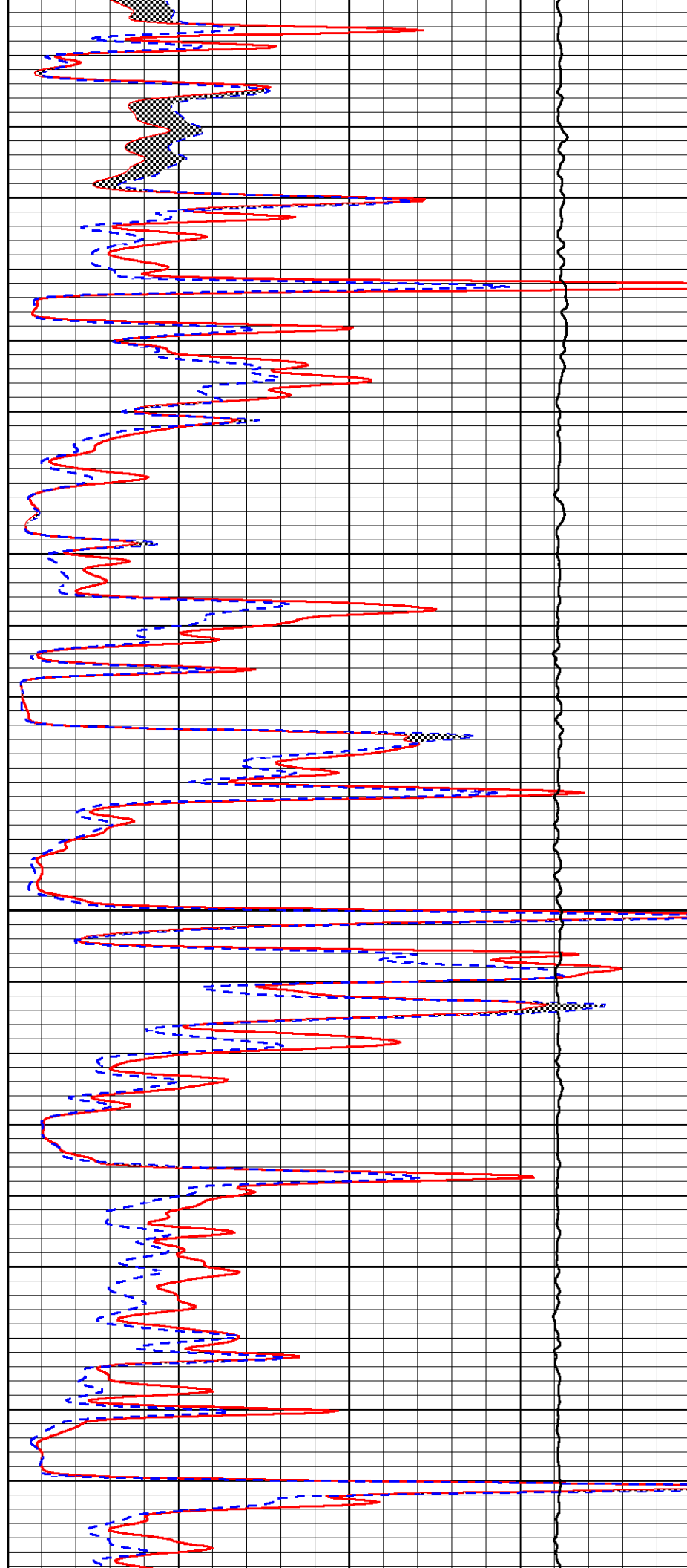


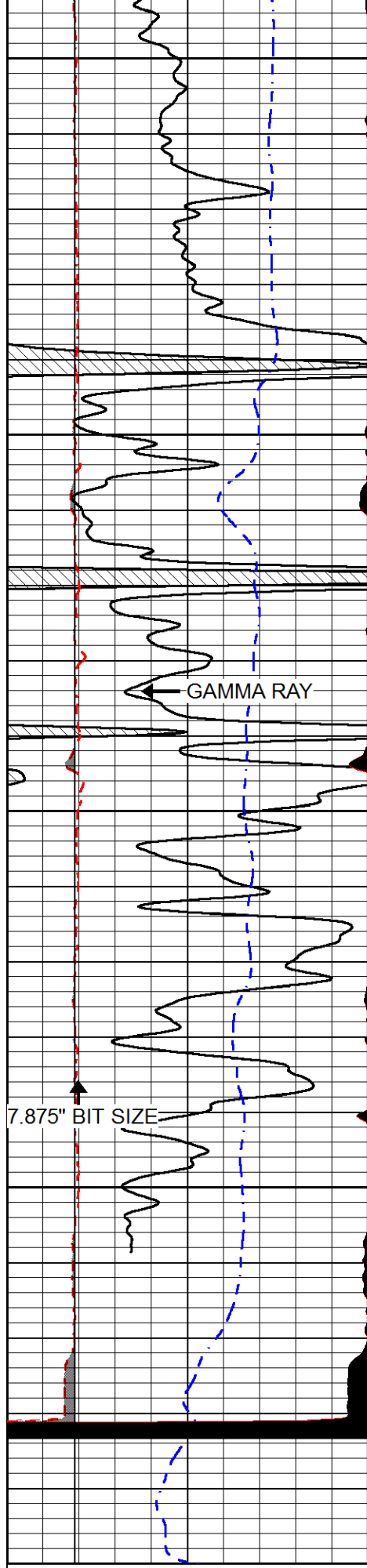
3950

4000

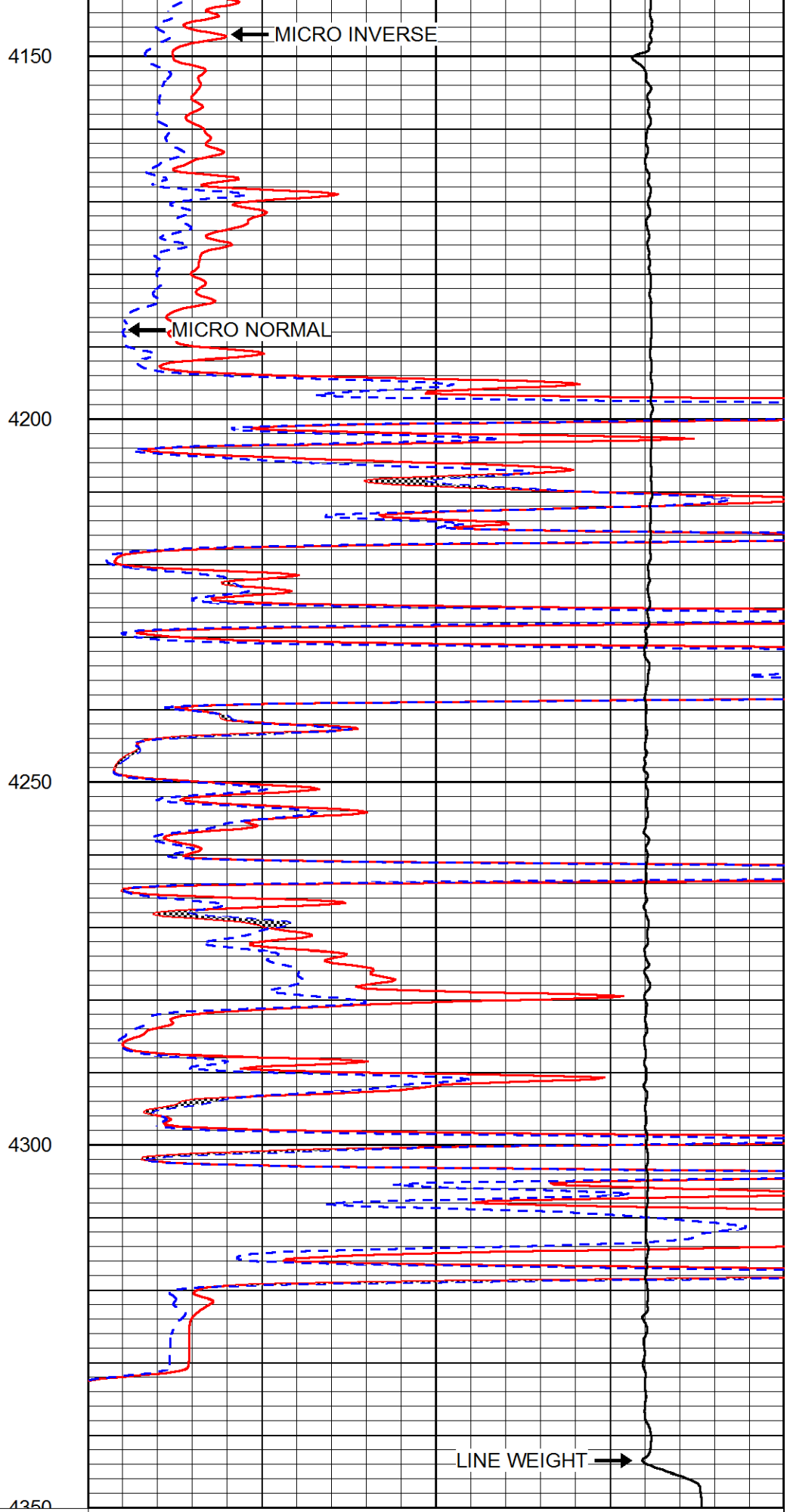
4050

4100





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



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

2.875	MCAL (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

10000	Line Weight (lb)	0
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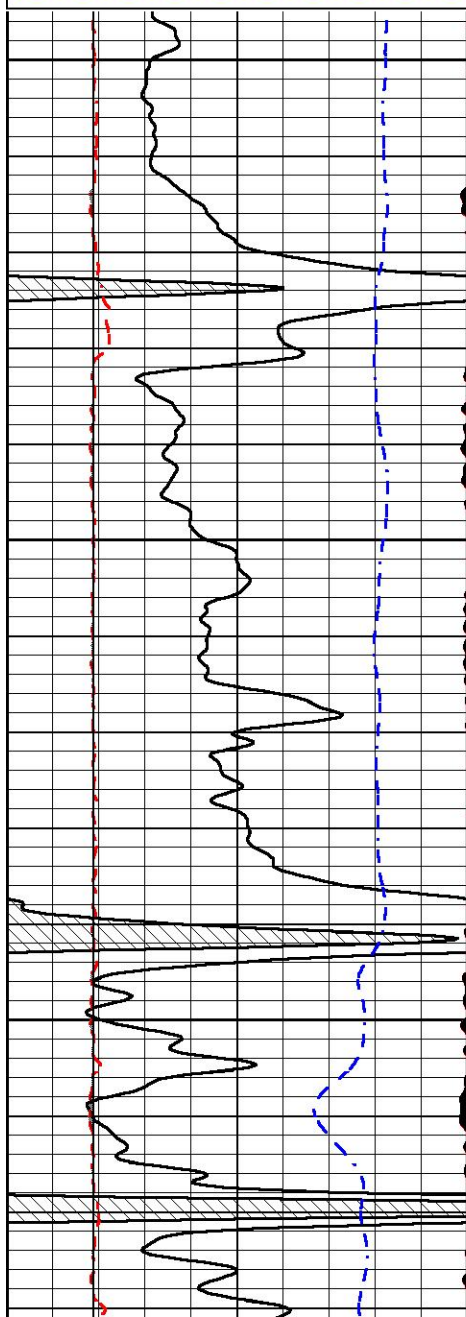


REPEAT SECTION

Database File carmen_schmitt_wp_unit_5_7.db
Dataset Pathname stkml/pass2.1
Presentation Format micro
Dataset Creation Mon May 21 12:28:34 2018
Charted by Depth in Feet scaled 1:240

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

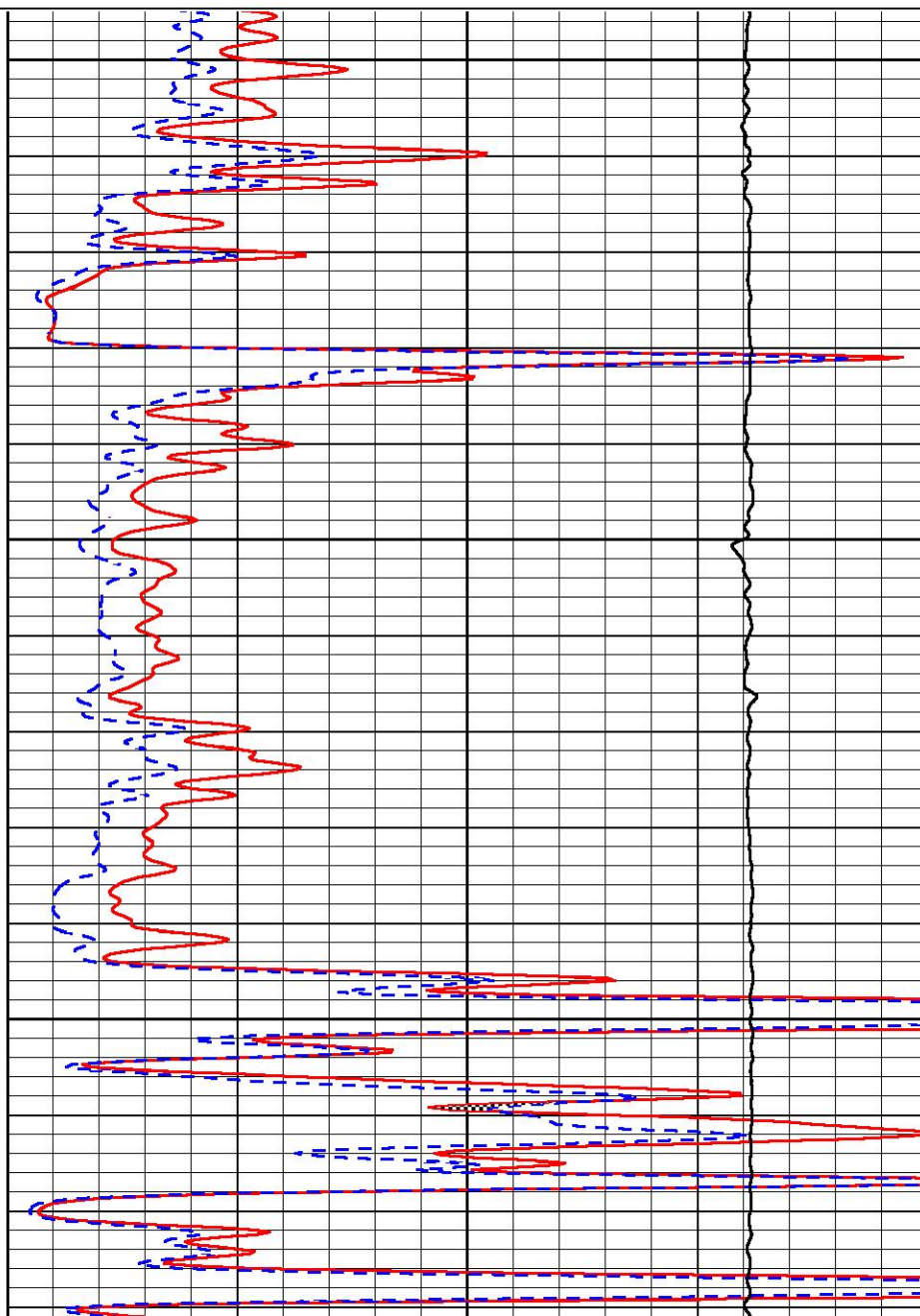
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0



4100

4150

4200



Serial-Model:
Performed:

PSI-01-PSIML
Mon Apr 16 11:11:21 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	19000.0000	-0.7000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	24000.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.8500

Compensated Density Calibration Report

Serial-Model: 817-947-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Tue May 01 14:00:17 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	6127.15	5922.31	cps
Aluminum	2.650	g/cc	1141.85	3762.09	cps
Spine Angle = 74.89			Density/Spine Ratio = 0.514		
	Size		Reading		
Small Ring	4.50	in	1.02		
Large Ring	15.00	in	1.15		

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: MON APR 16 10:30:30 2018

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
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



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Well WP UNIT #5-7
Field WILDCAT
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State

KANSAS