



MICRORESISTIVITY LOG

PIONEER
Pioneer Energy Services

Company PALOMINO PETROLEUM, INC.
Well UEHLING-SCHWIEN #1
Field WILDCAT
County NESS
State KANSAS

Company PALOMINO PETROLEUM, INC.
Well UEHLING-SCHWIEN #1
Field WILDCAT
County NESS State KANSAS

Location: API #: 15-135-25992-00-00

587 FNL & 2477' FEL

SEC 11 TWP 20S RGE 22W

Permanent Datum GROUND LEVEL Elevation 2235'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2240'
D.F. N/A
G.L. 2235'

Date	2/21/2018		
Run Number	ONE		
Depth Driller	4545'		
Depth Logger	4546'		
Bottom Logged Interval	4545'		
Top Log Interval	3600'		
Casing Driller	8.625" @ 218'		
Casing Logger	217'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	11,700		
Density / Viscosity	9.35 47		
pH / Fluid Loss	10.0 9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.30 @ 40		
Rmf @ Meas. Temp	0.23 @ 40		
Rmc @ Meas. Temp	0.41 @ 40		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	0.10 @ 121		
Operating Rig Time	5 HOURS		
Max Rec. Temp. F	121		
Equipment Number	91		
Location	HAYS		
Recorded By	D. SCHMIDT		
Witnessed By	ANDREW STENZEL		

<<< Fold Here >>>

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.

BAZINE,
8 SOUTH TO ROAD 50, 1 1/2 WEST
SOUTH 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

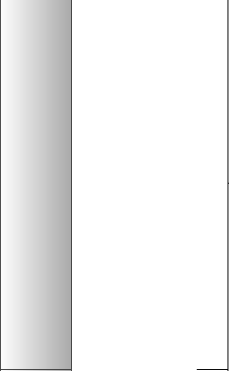
Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: ANDREW STENZEL
Secondary Witness:
Secondary Witness:
Secondary Witness:

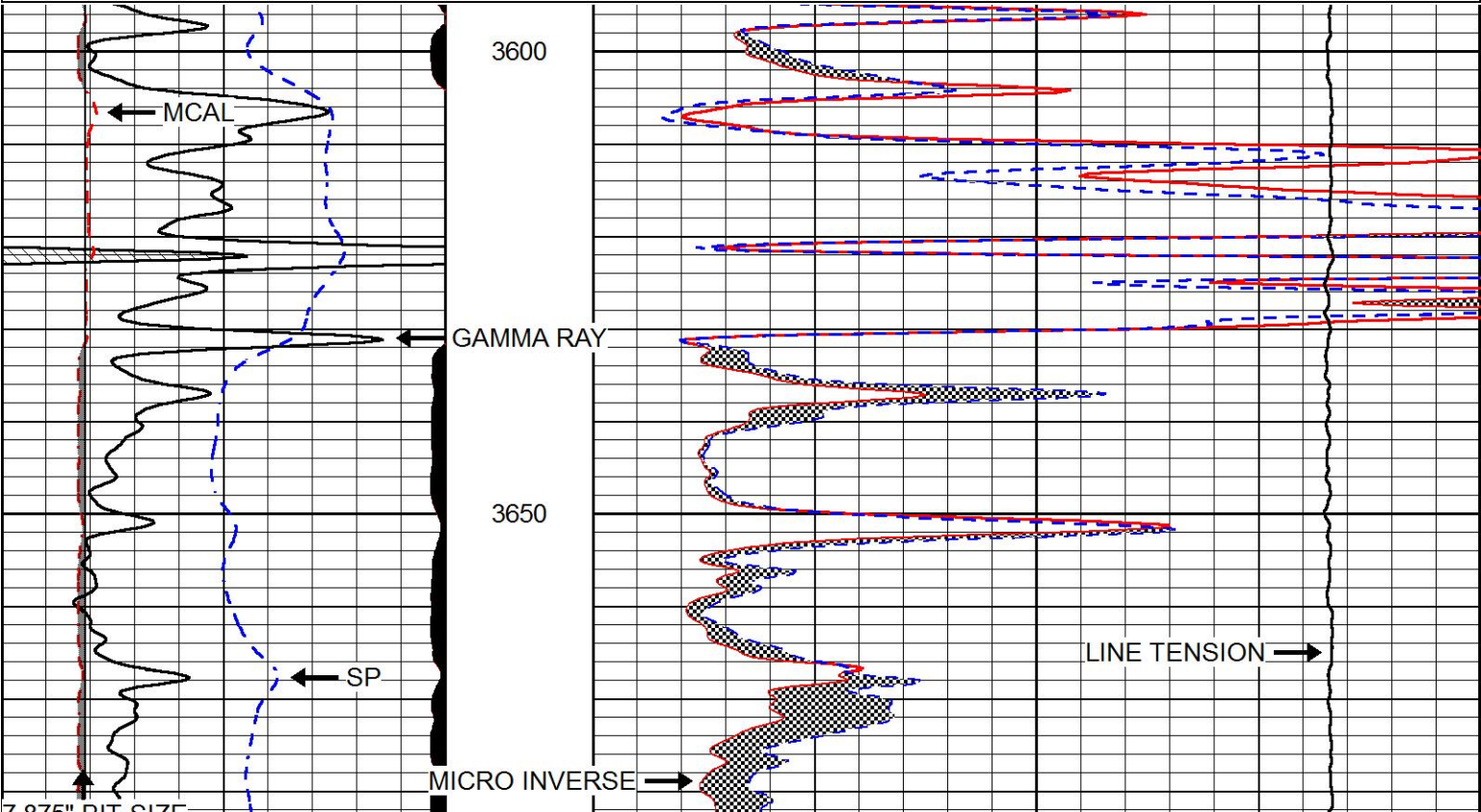
Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-143	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	20	0	5.5	0	4546	121	7.875

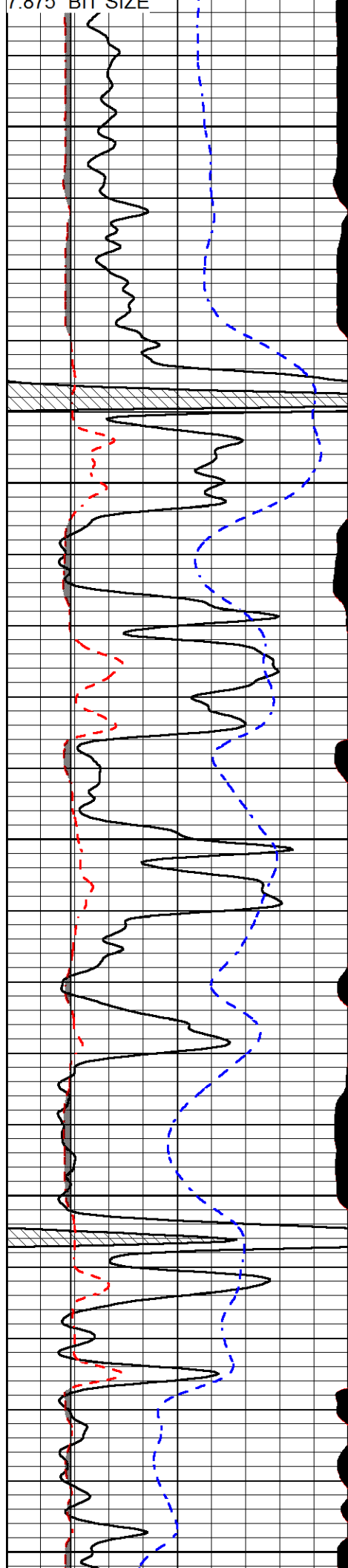
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (182-152)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools 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: palomino_uehling-schwien#1.db: field/well/STACKML/pass3.6 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in						

		MAIN PASS	
Database File	palomino_uehling-schwieen#1.db		
Dataset Pathname	STACKML/pass3.6		
Presentation Format	micro		
Dataset Creation	Wed Feb 21 03:44:13 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	



7.675 BIT SIZE



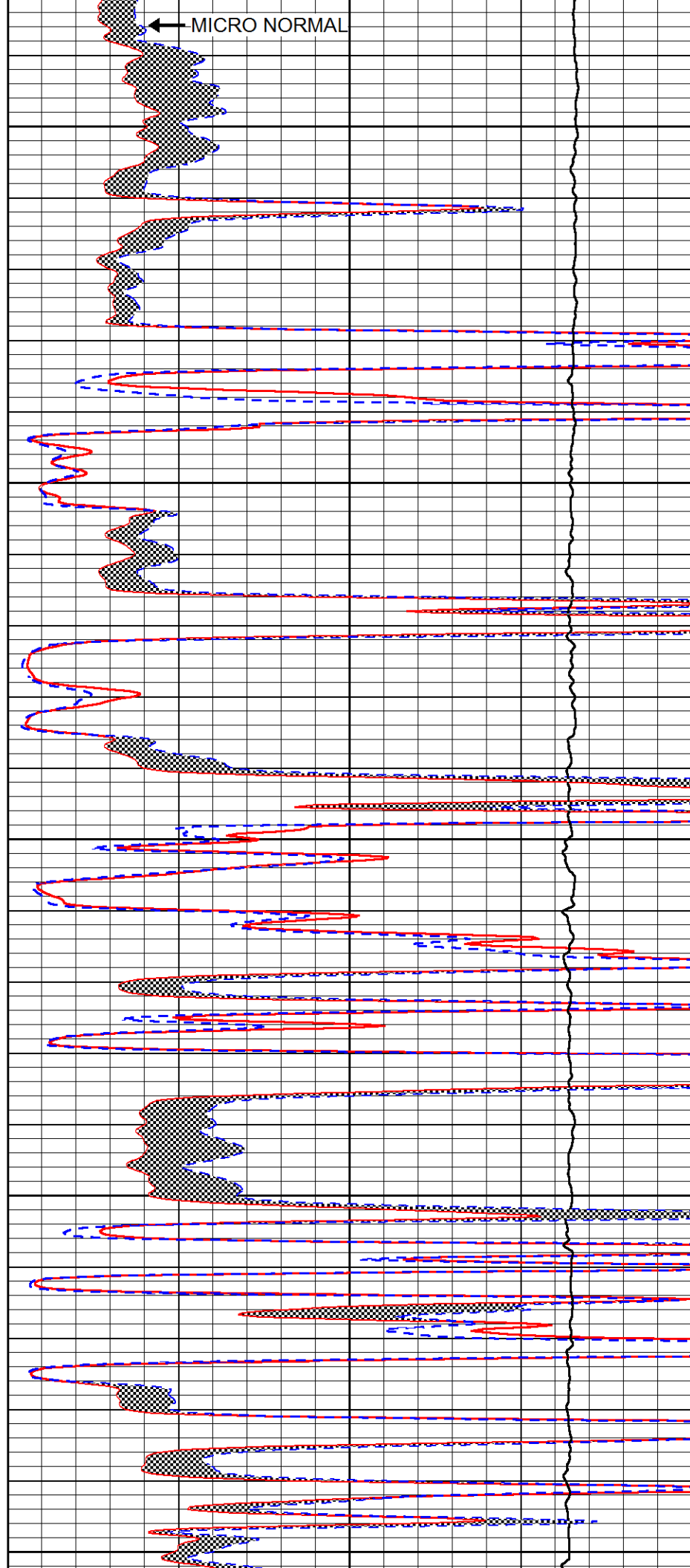
3700

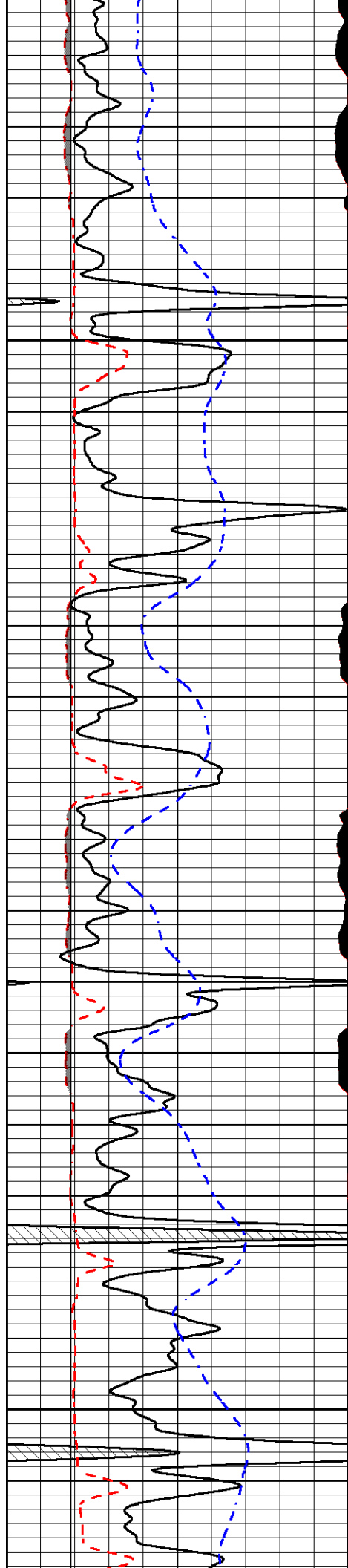
3750

3800

3850

3900



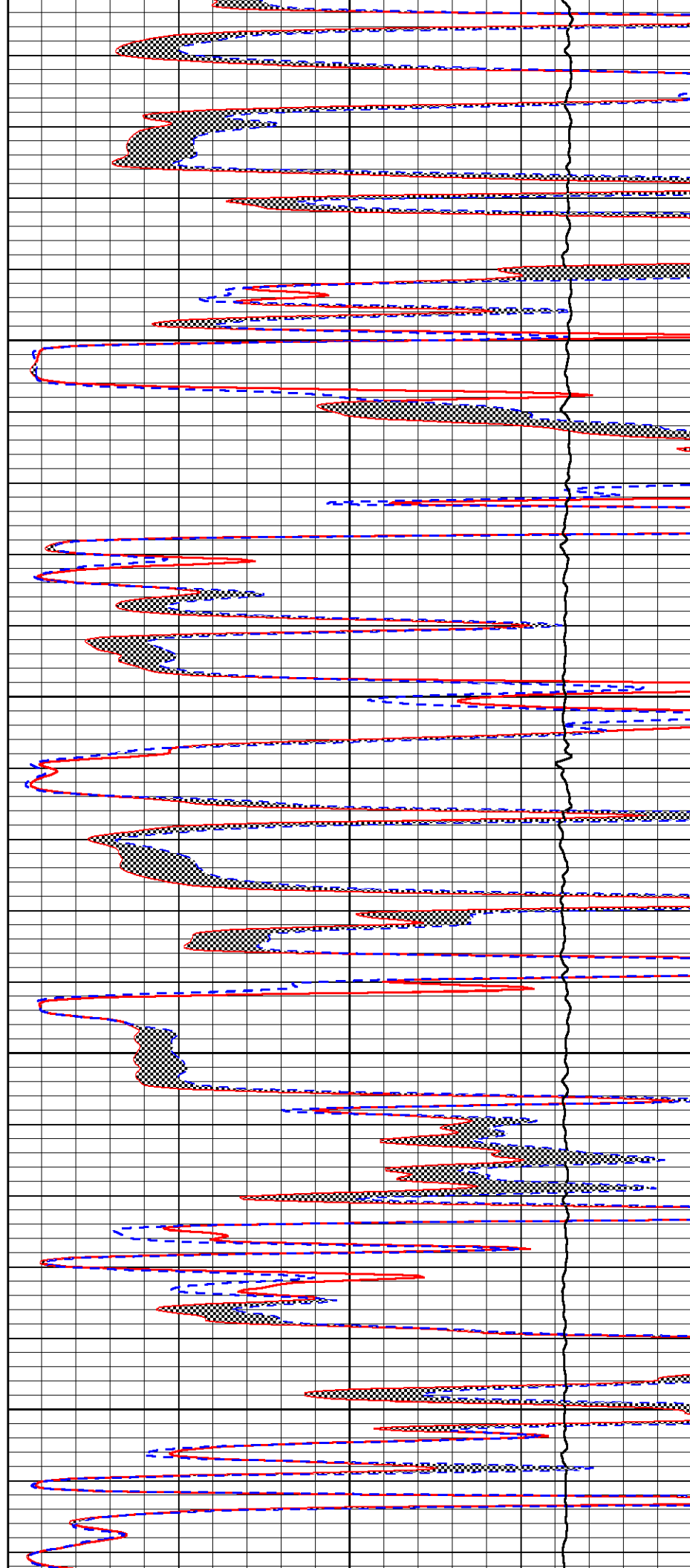


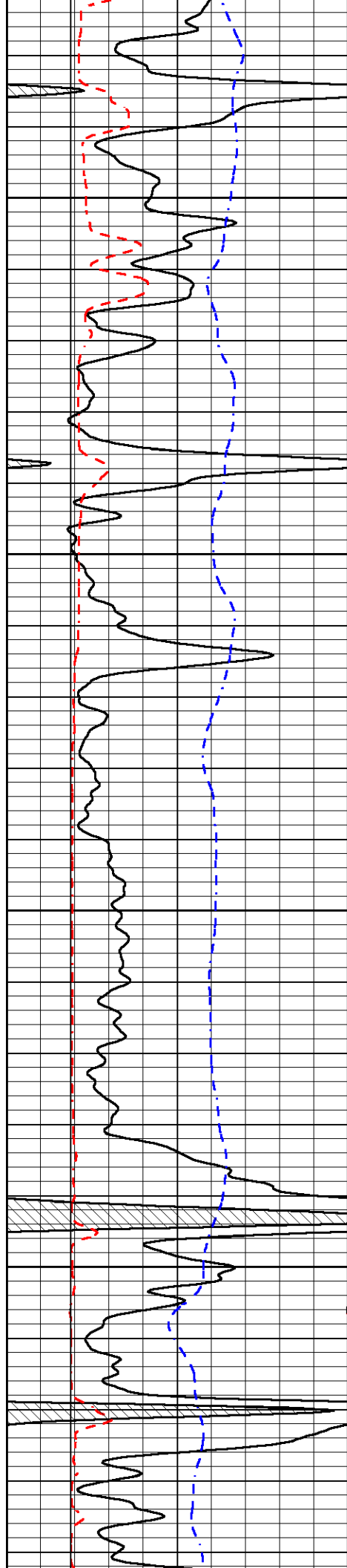
3950

4000

4050

4100



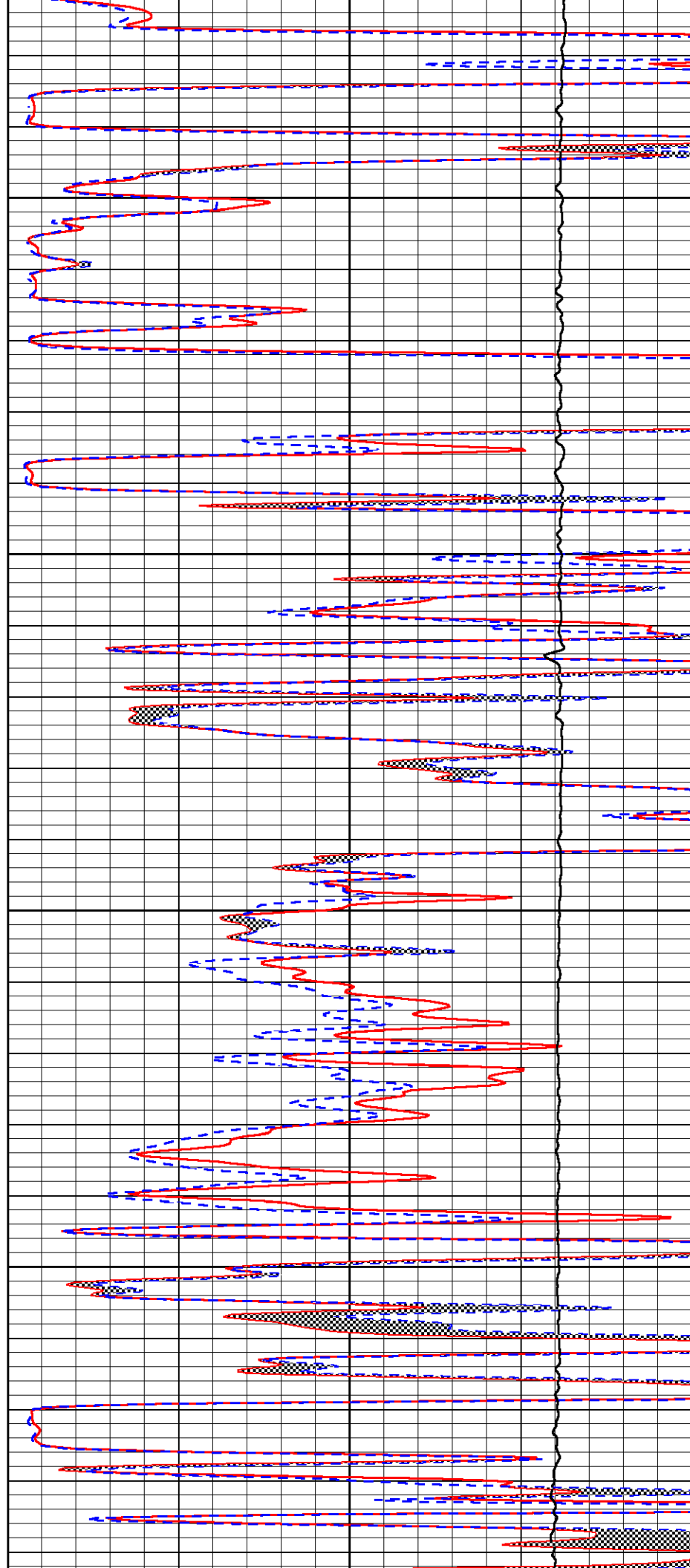


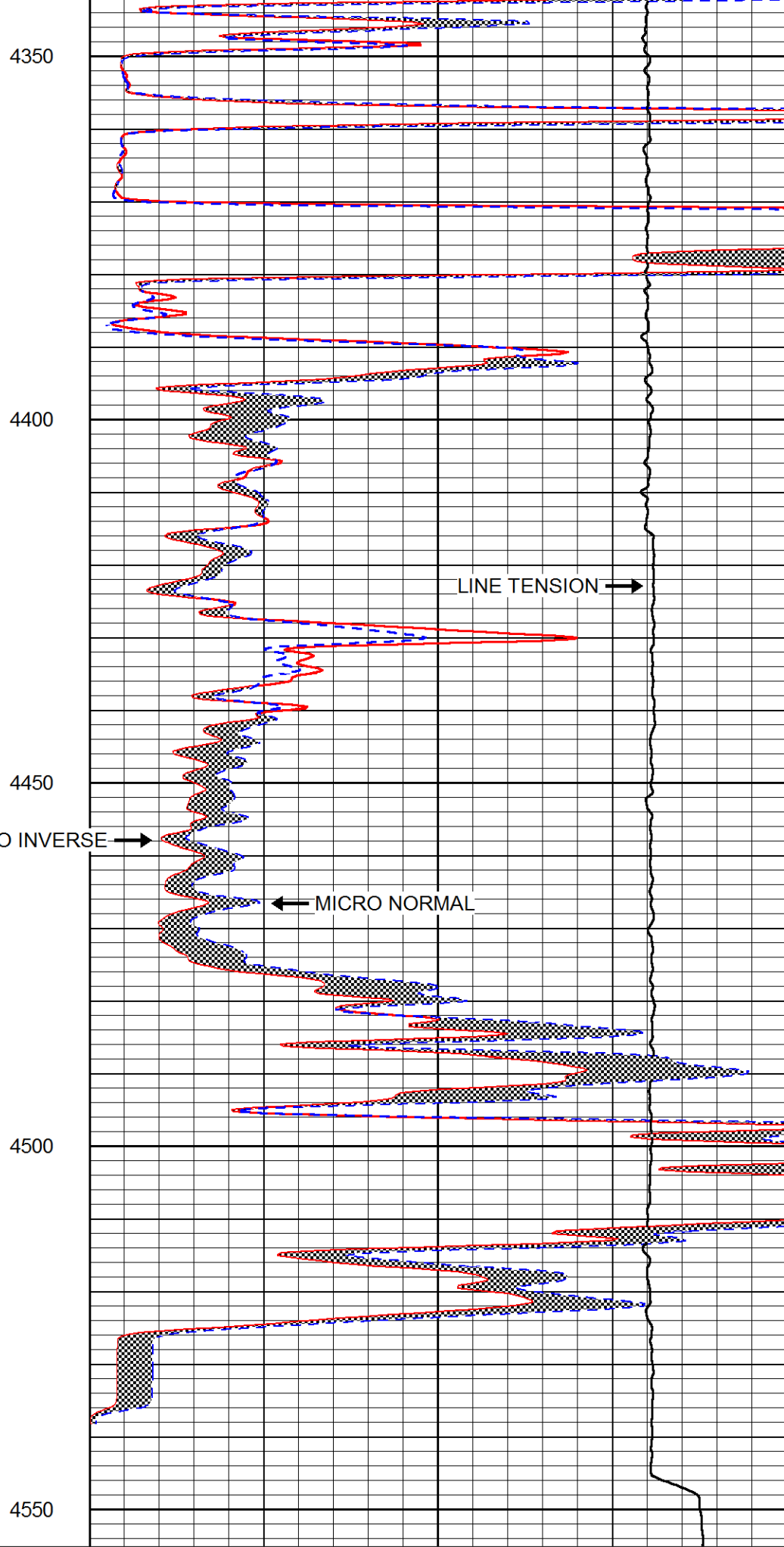
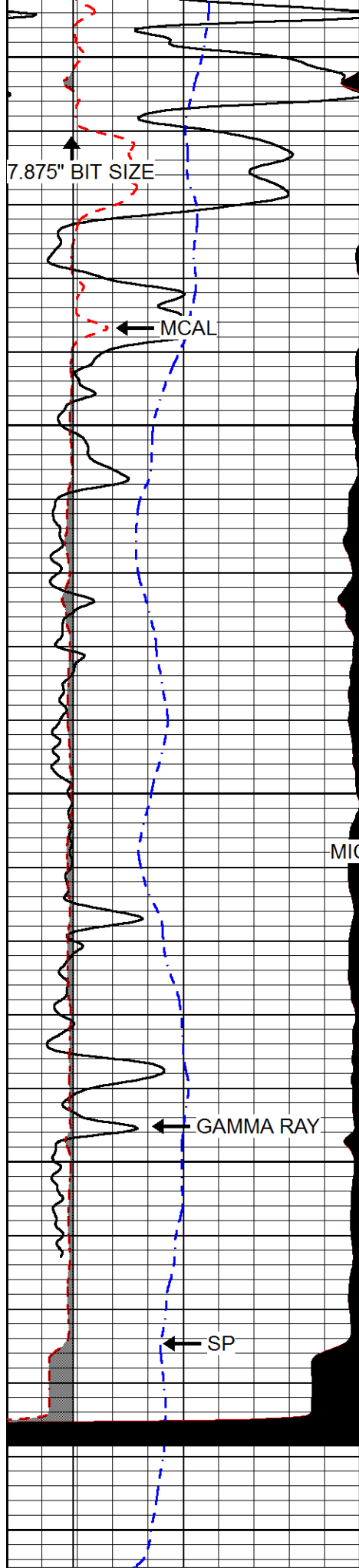
4150

4200

4250

4300





0 Gamma Ray (GAPI) 150
6 MCAL (in) 16

0 Micro Inverse 1 X 1 (Ohm-m) 40
0 Micro Normal 2\" (Ohm-m) 40

0	MCAL (in)	10
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

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

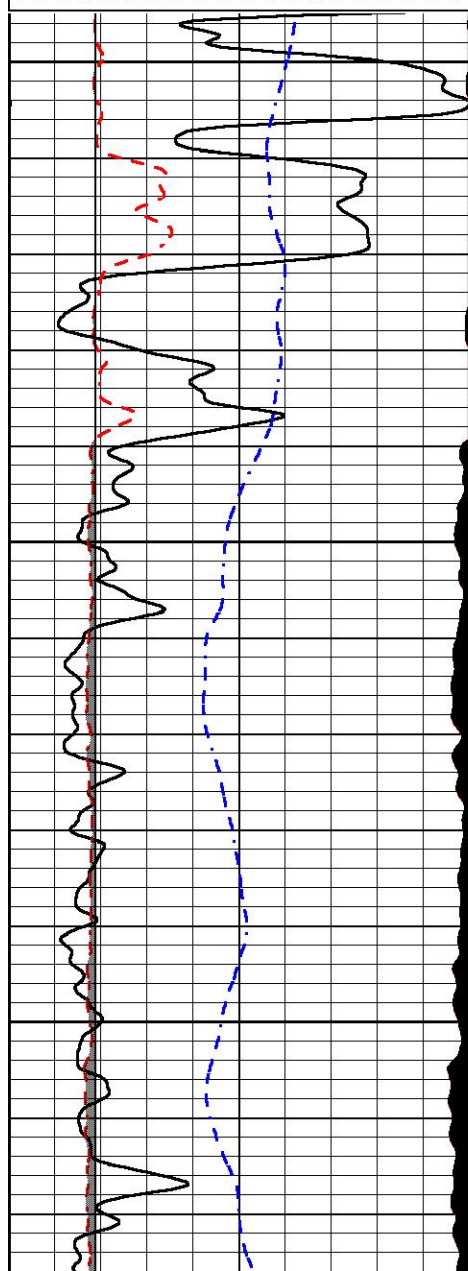


REPEAT SECTION

Database File palomino_uehling-schwien#1.db
Dataset Pathname STACKML/pass2.2
Presentation Format micro
Dataset Creation Wed Feb 21 04:00:29 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

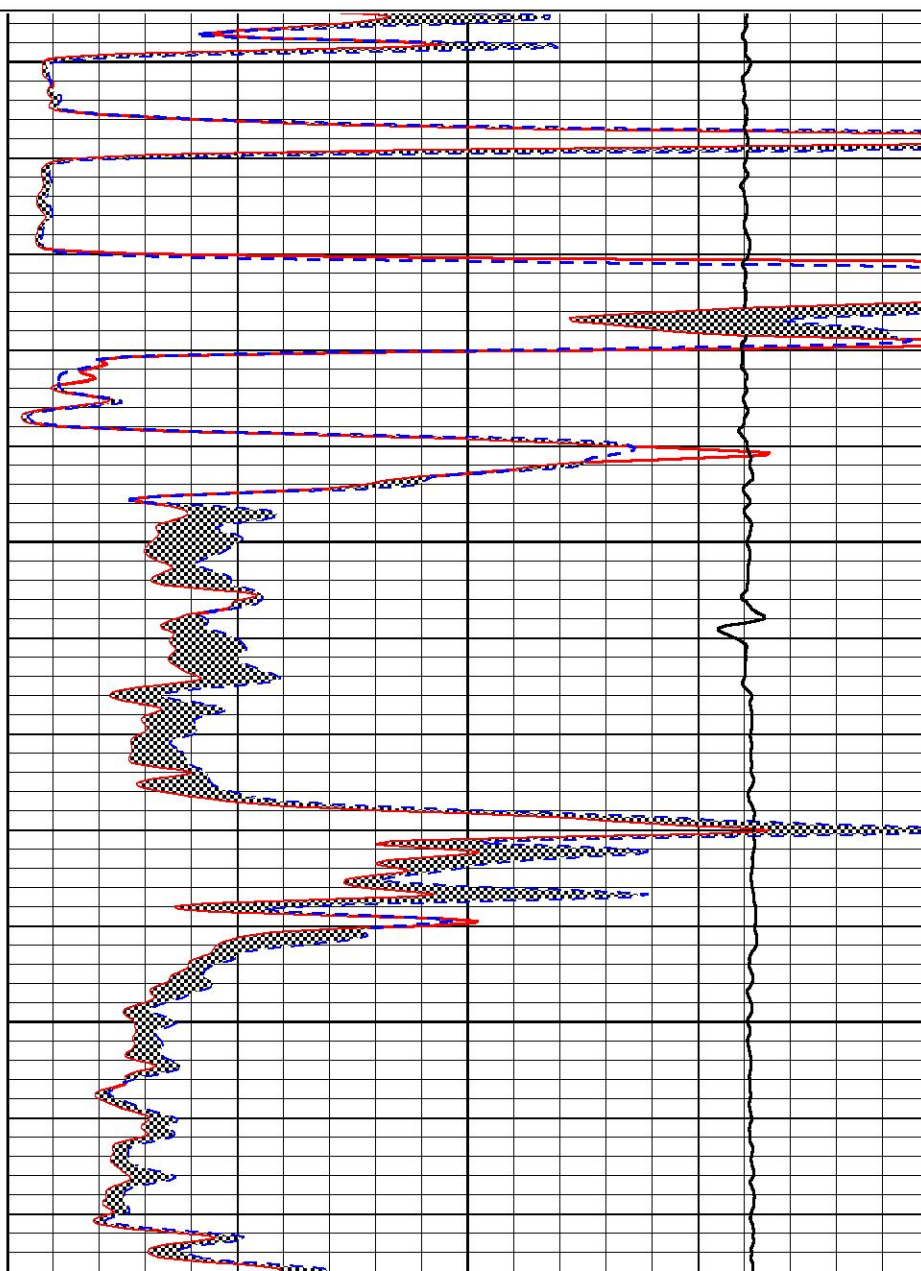
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

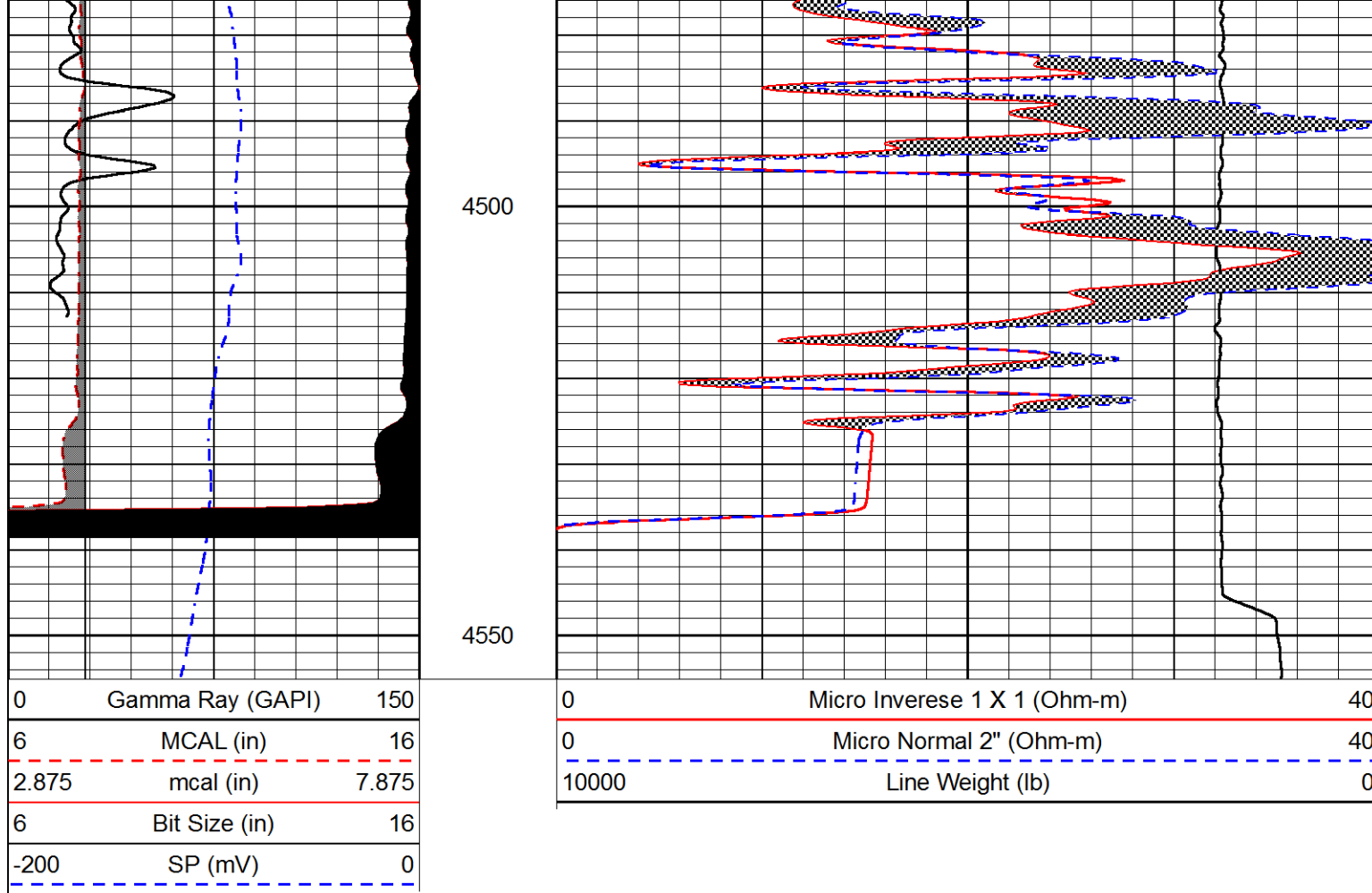


4350

4400

4450





Calibration Report

Database File palomino_uehling-schwieen#1.db
 Dataset Pathname STACKML/pass3.6
 Dataset Creation Wed Feb 21 03:44:13 2018

Dual Induction Calibration Report

Serial-Model: 933 (HT)-PSI HIGH TEMP
 Calibration Performed: Sun Feb 18 17:32:17 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.700	-17.500
Medium	142.000	1349.000	0.000	255.000	mmho/m	0.550	-61.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Mon Jan 15 11:19:55 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	24000.0000	-0.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	25500.0000	0.1000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.9000

Compensated Density Calibration Report

Serial-Model:	182-152-M&W
Source / Verifier:	16955B / 2ci
Master Calibration Performed:	Mon Feb 12 16:20:26 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4992.81	6098.44	cps
Aluminum	2.675	g/cc	945.67	3945.60	cps
Spine Angle = 75.33			Density/Spine Ratio = 0.535		
	Size		Reading		
Small Ring	4.50	in	1.09		
Large Ring	15.00	in	1.03		

Compensated Neutron Calibration Report

Serial Number:	207-MW
Tool Model:	M&W
Calibration Performed:	MON JAN 15 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



Company	PALOMINO PETROLEUM, INC.
Well	UEHLING-SCHWIEN #1
Field	WILDCAT
County	NESS
State	KANSAS