



MICRORESISTIVITY LOG

Company CHIZUM OIL, LLC
Well LAZY HEART #1-26
Field WILDCAT
County SHERMAN **State** KANSAS

Company CHIZUM OIL, LLC
Well LAZY HEART #1-26
Field WILDCAT
County SHERMAN **State** KANSAS

Date	05/03/2018	
Run Number	ONE	
Depth Driller	5000'	
Depth Logger	4996'	
Bottom Logged Interval	4995'	
Top Log Interval	3900'	
Casing Driller	8.625" @ 347'	
Casing Logger	347'	
Bit Size	7.875"	
Type Fluid in Hole	CHEMICAL	
Salinity, ppm CL	7800	
Density / Viscosity	9.4	77
pH / Fluid Loss	9.5	9.6
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	0.65 @ 55	
Rmt @ Meas. Temp	0.49 @ 55	
Rmc @ Meas. Temp	0.88 @ 55	
Source of Rmf / Rmc	CHARTS	
Rm @ BHT	0.31 @ 116	
Operating Rig Time	3 HOURS	
Max Rec. Temp. F	116	
Equipment Number	91	
Location	HAYS	
Recorded By	D. SCHMIDT	
Witnessed By	TIM PRIEST	

Location: API #: 15-181-20613-00-00
 440' FNL & 560' FEL
 SEC 26 TWP 7S RGE 37W
 Permanent Datum GROUND LEVEL Elevation 3440'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services CNL/CDL DIL
 Elevation K.B. 3448'
 D.F. N/A
 G.L. 3440'

<<< 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.
 BREWSTER, KS
 5 SOUTH TO T ROAD,
 3 WEST, 1 NORTH,
 EAST INTO
 Log Measured From: KELLY BUSHING 8 Ft. Above Permanent Datum
 THANK YOU FOR USING PIONEER ENERGY SERVICES
 www.pioneerenergy.com 785-625-3858

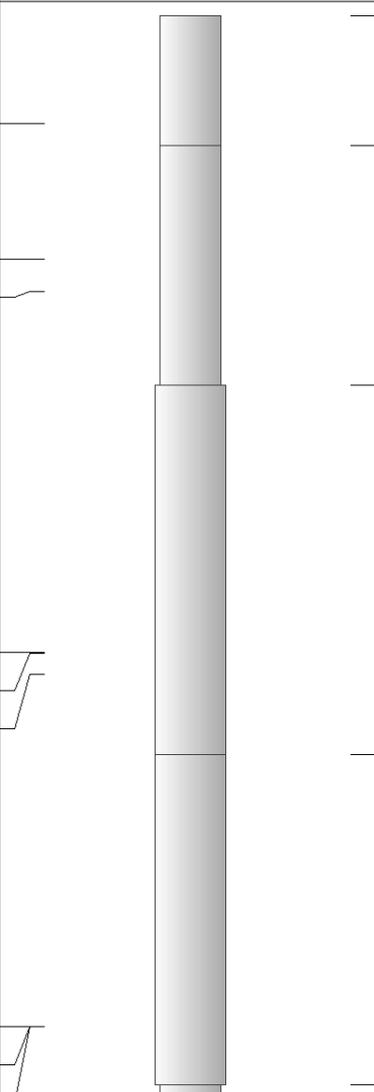
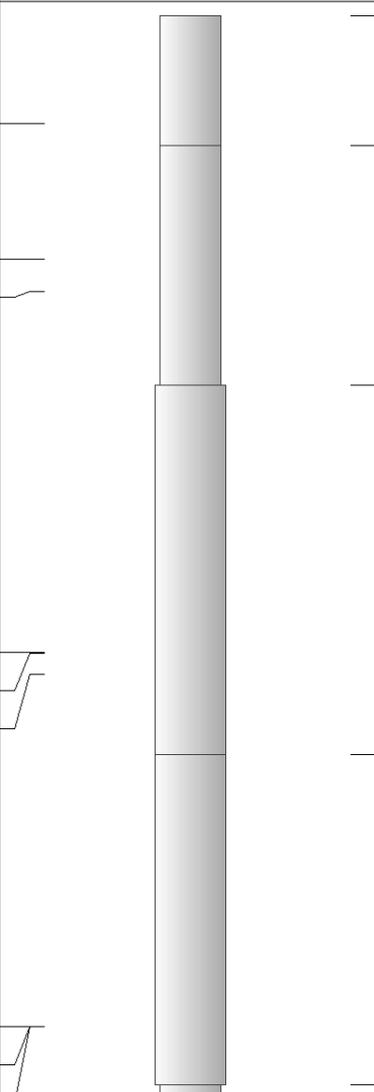
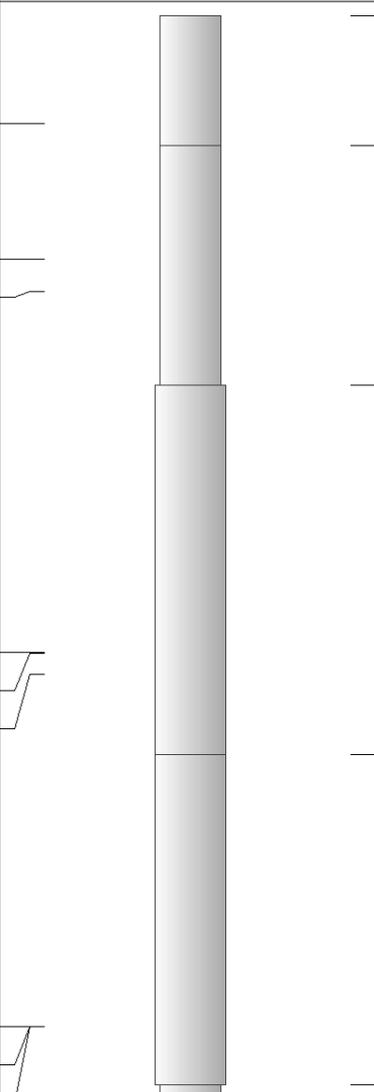
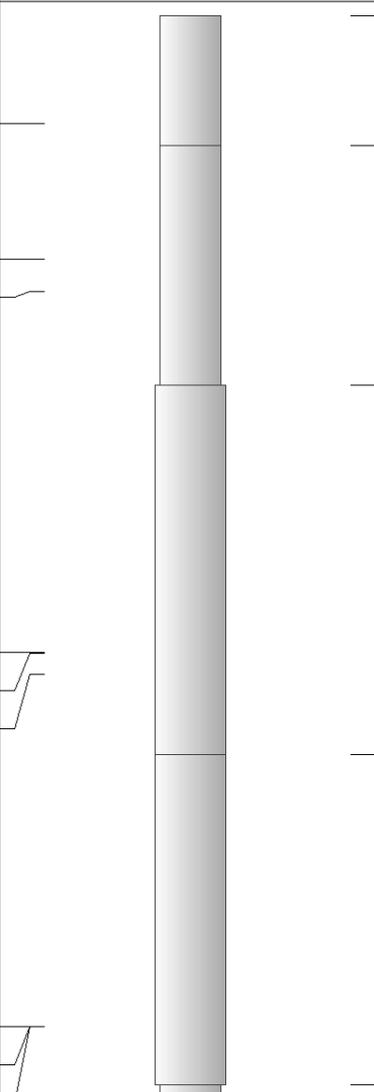
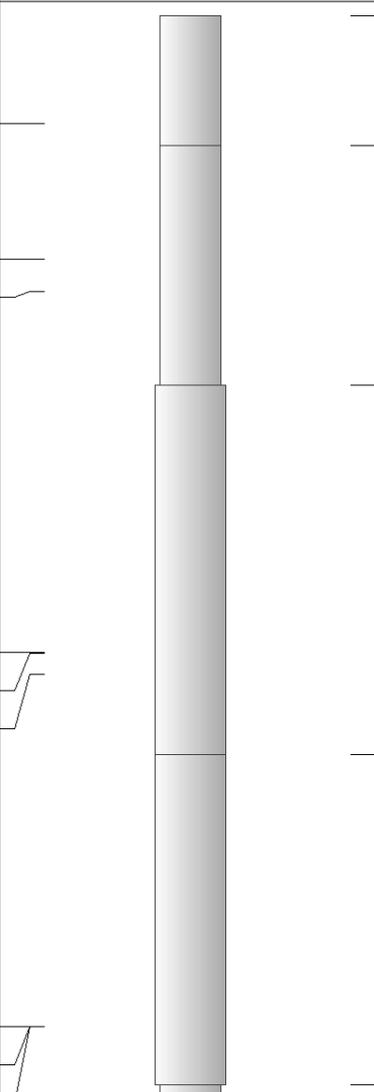
Your Pioneer Energy Services Crew Engineer: D. SCHMIDT Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: TIM PRIEST Secondary Witness: Secondary Witness: Secondary Witness:
---	--

Log Variables

Database C:\ProgramData\Warrior\Data\chizum_lazyheart#1-26.db
 Dataset field/well/STKML/pass5.1/_vars_

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	280	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	50	0	5.5	0	4997	116	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 (227-771)	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					

CILD	8.00		DIL-PSI HIGH TEMP (967 (HT))	18.50	3.50	220.00
CILM	4.70					
SP	0.20					

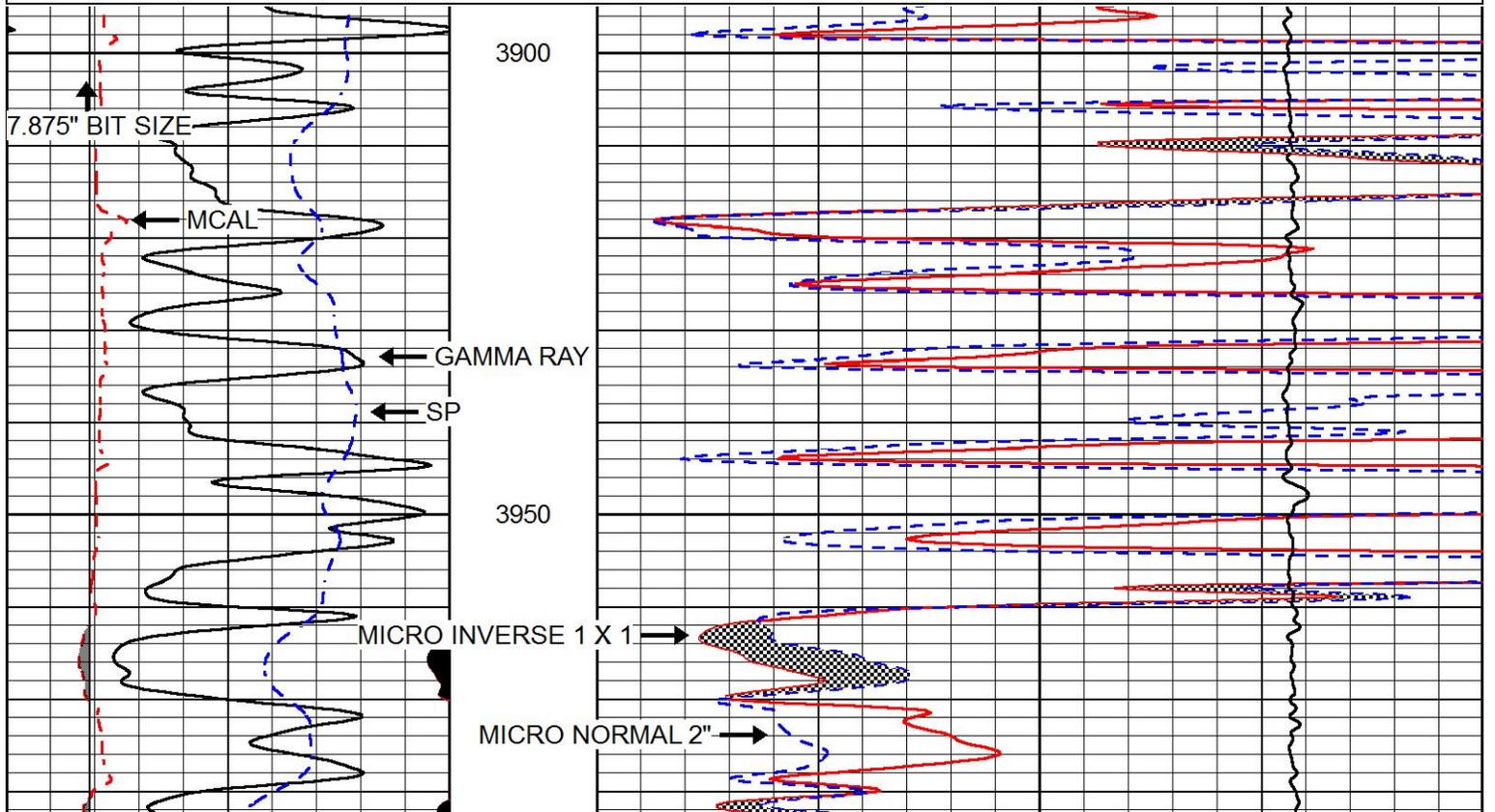
Dataset: chizum_lazyheart#1-26.db: field/well/STKML/pass5.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

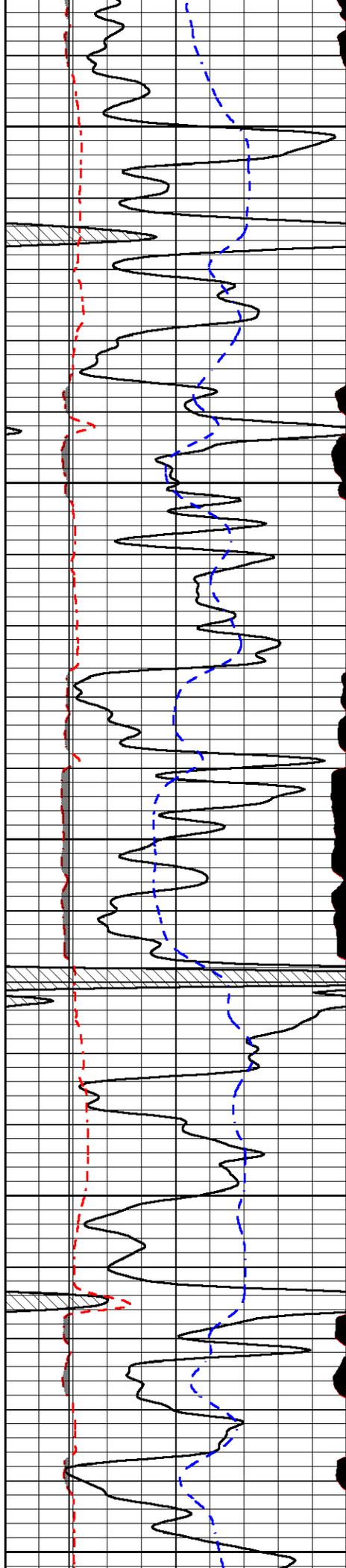


MAIN PASS

Database File: chizum_lazyheart#1-26.db
 Dataset Pathname: STKML/pass6.1
 Presentation Format: micro
 Dataset Creation: Fri May 04 03:37:45 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	mcal (in)	7.875	10000	Line Weight (lb)	0
6	Bit Size (in)	16			
-200	SP (mV)	0			





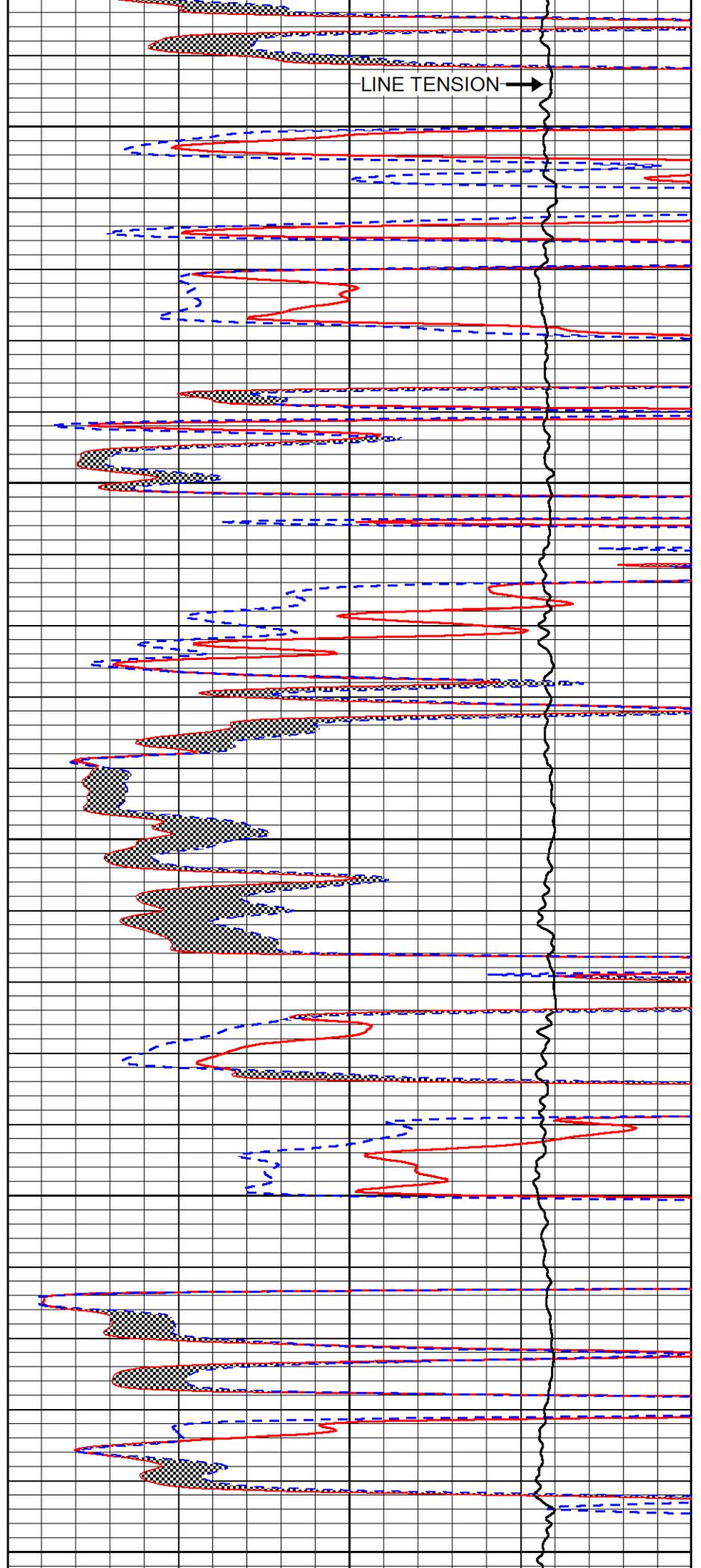
4000

4050

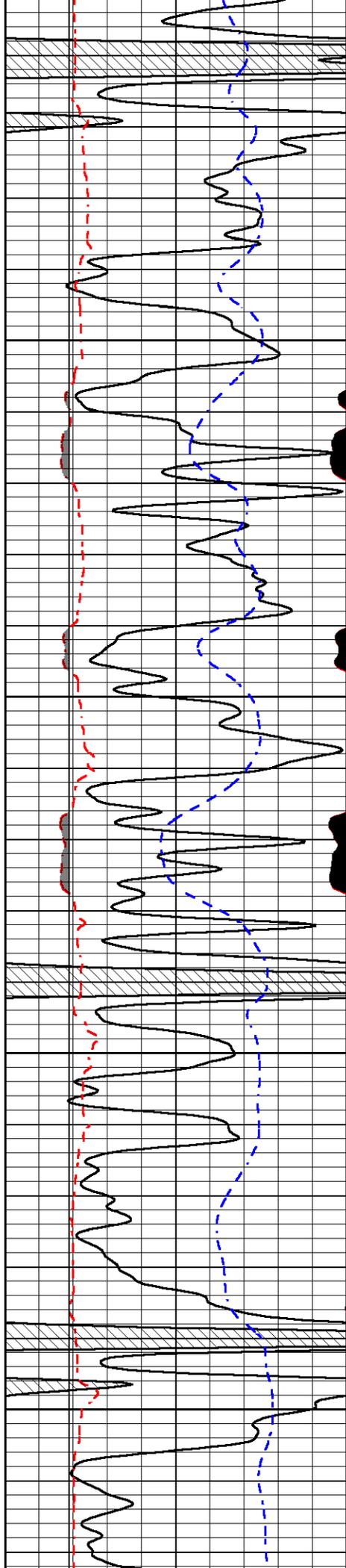
4100

4150

4200



LINE TENSION →

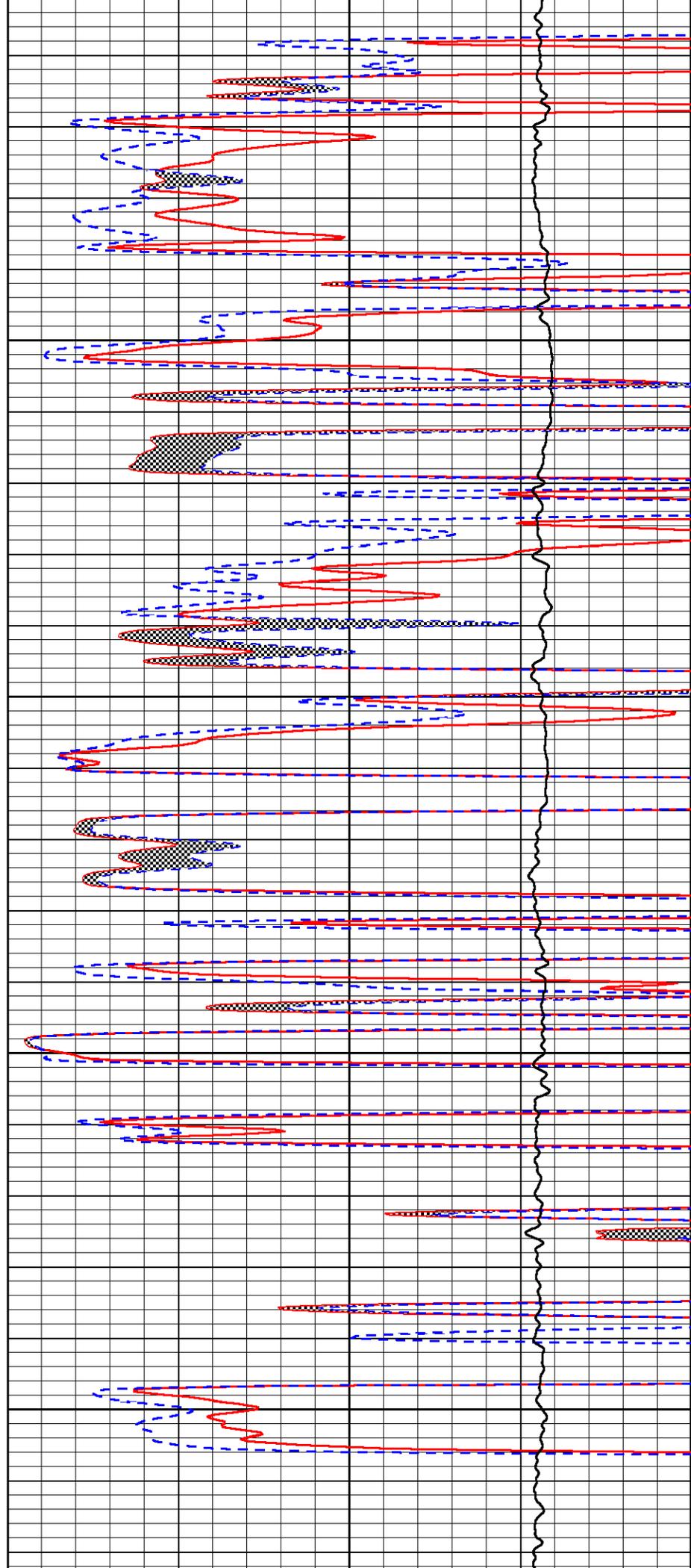


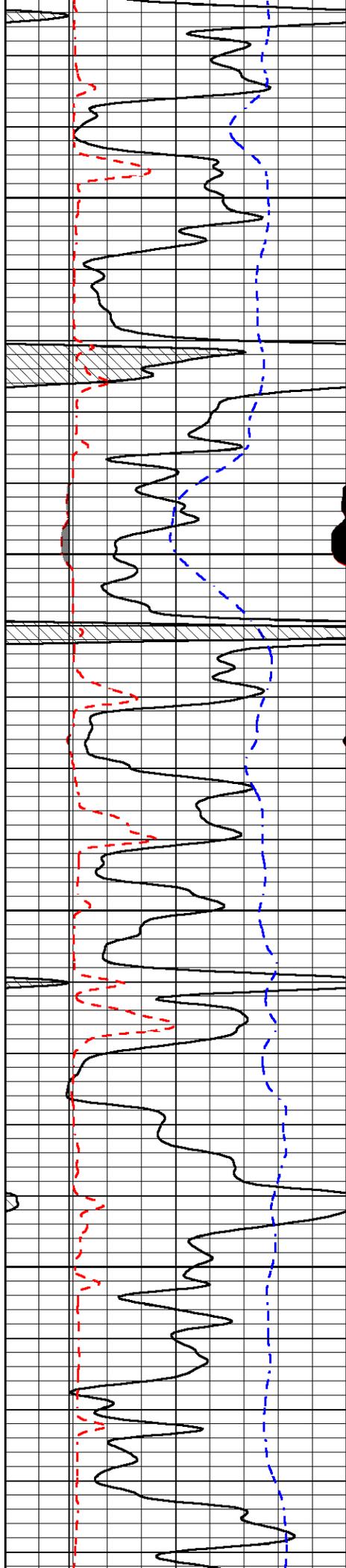
4250

4300

4350

4400



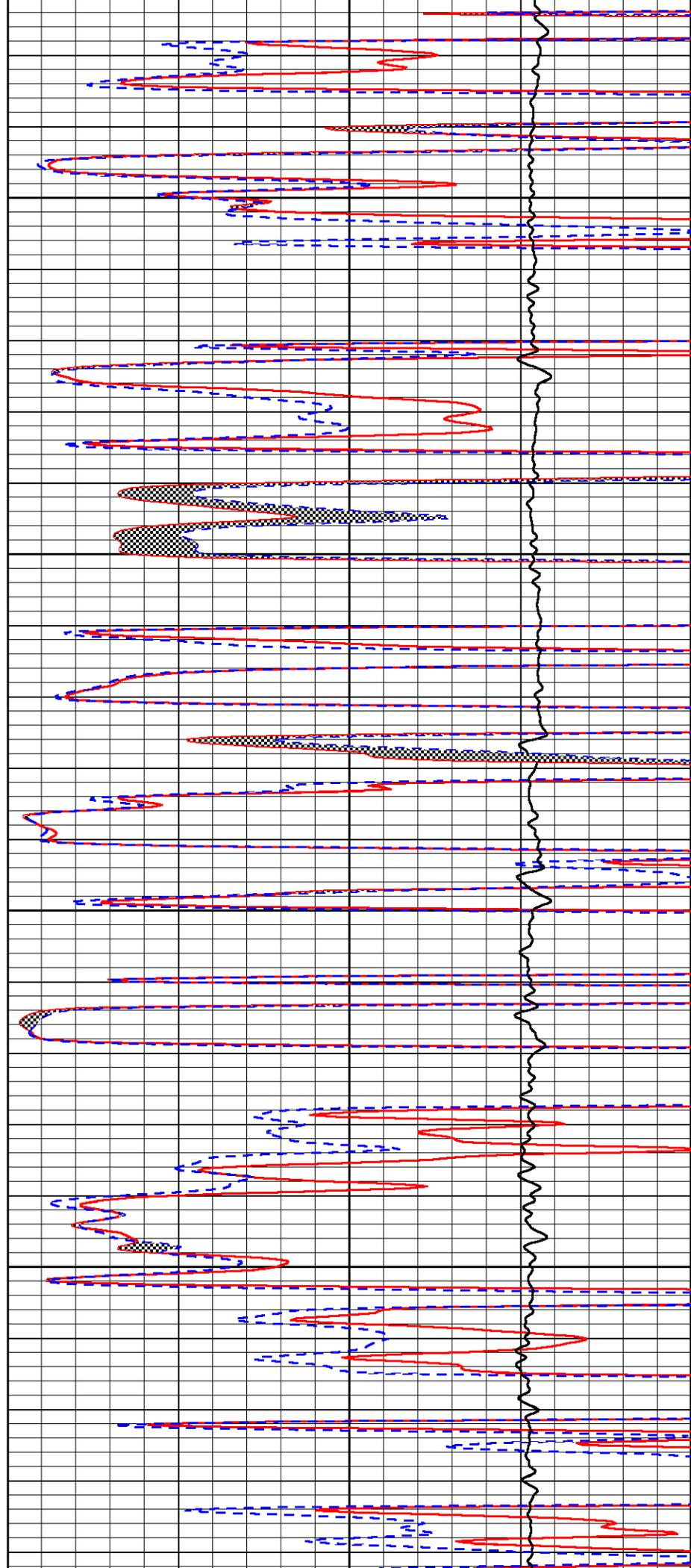


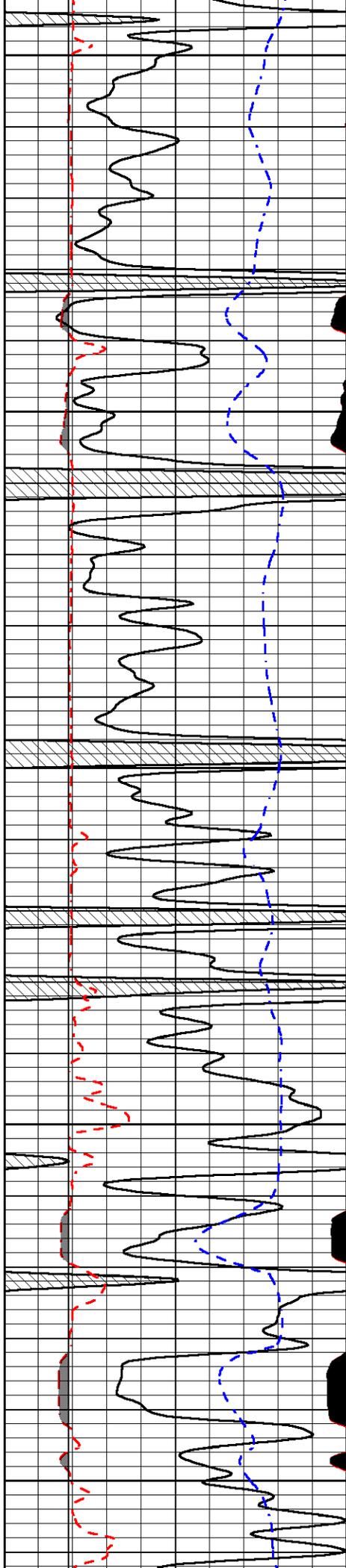
4450

4500

4550

4600





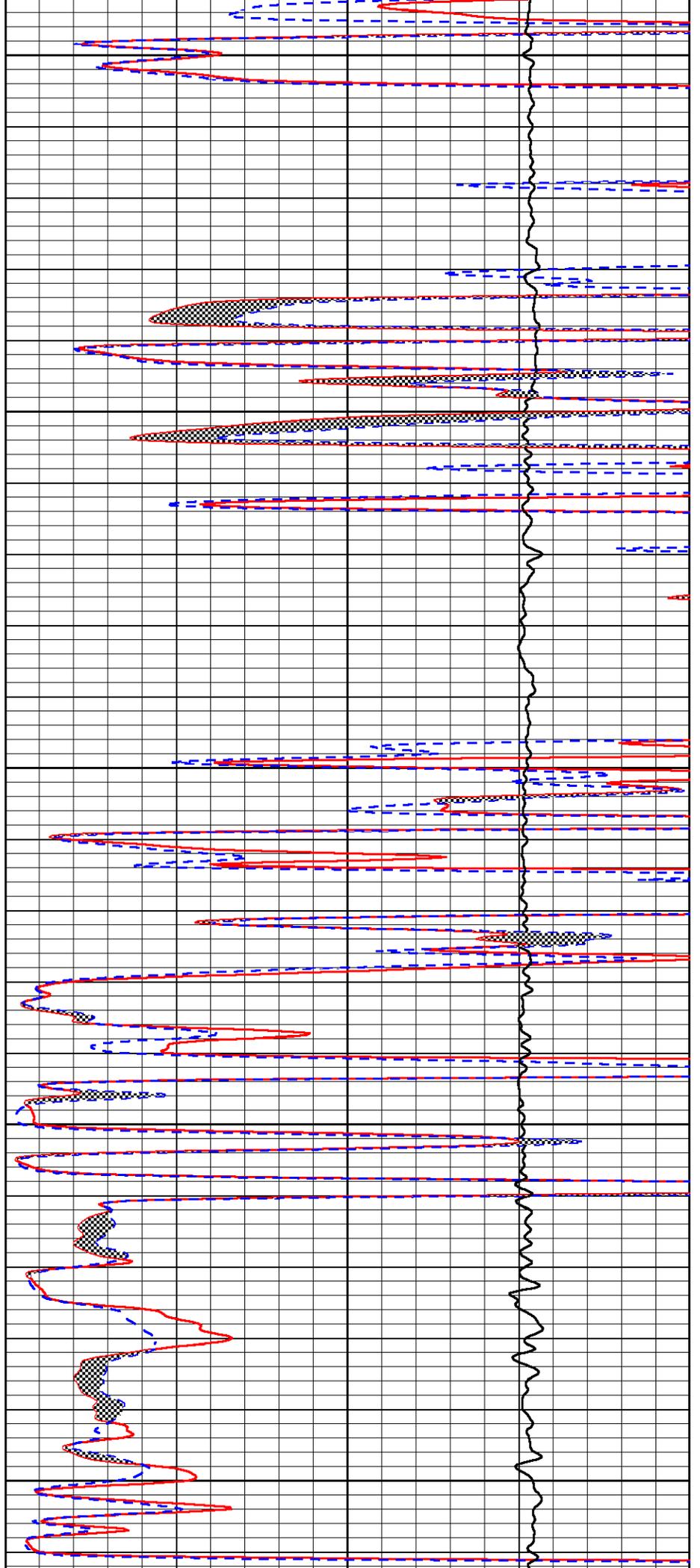
4650

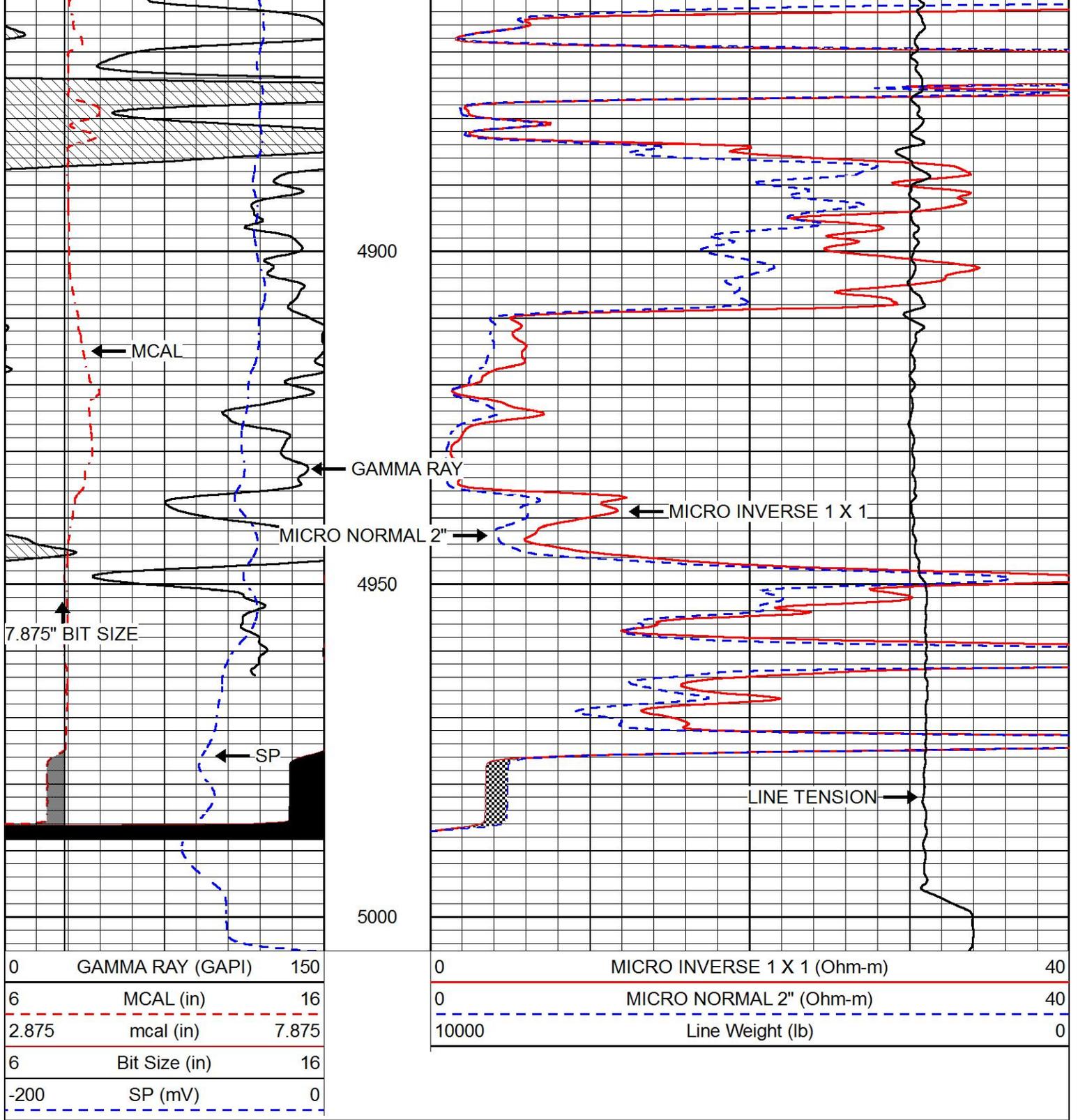
4700

4750

4800

4850





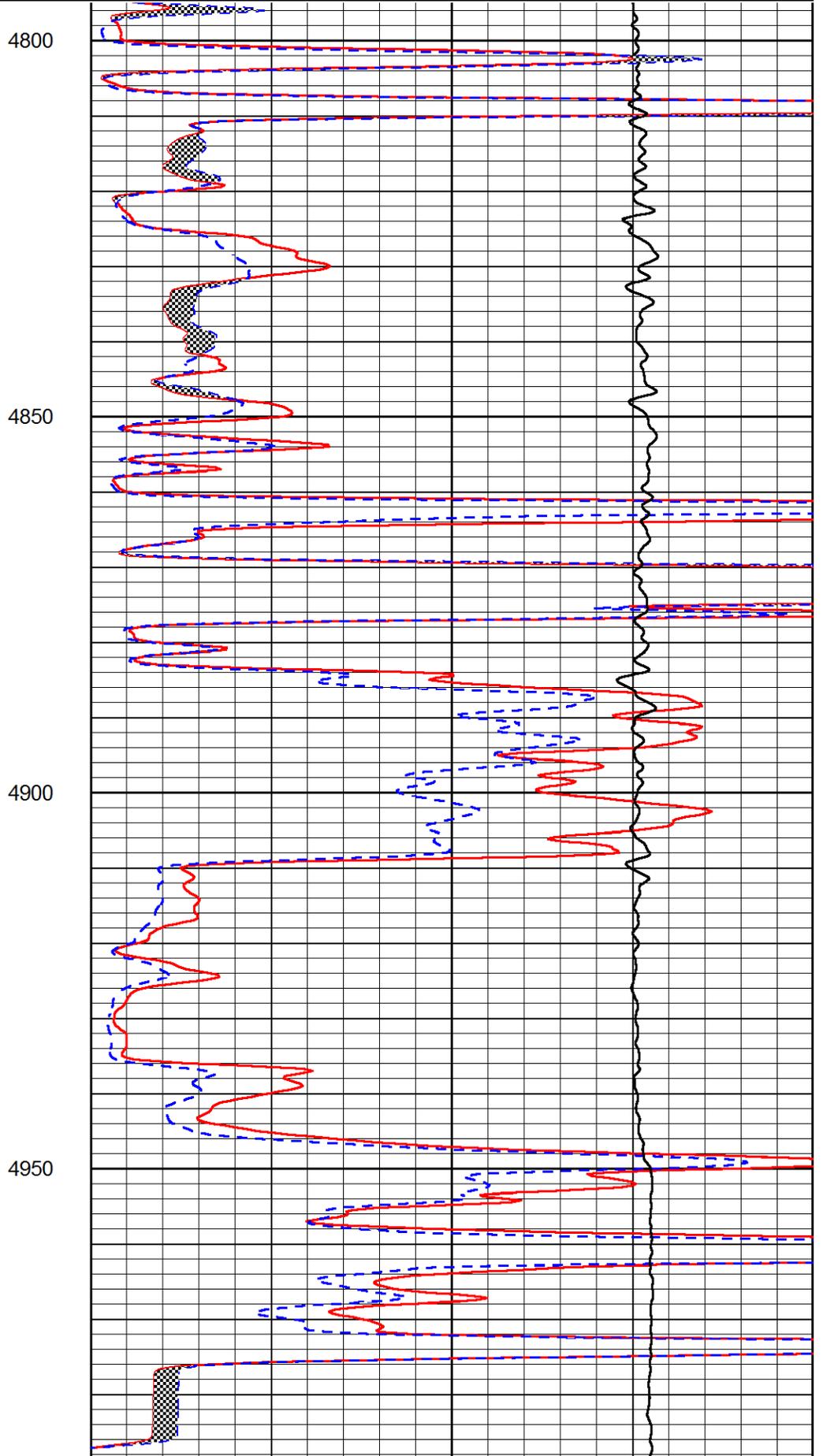
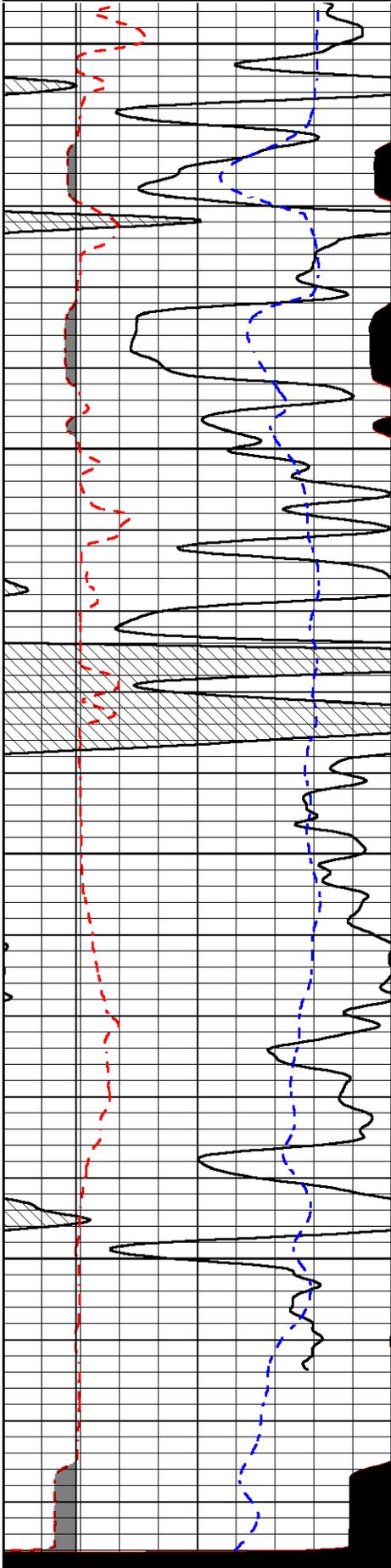
REPEAT SECTION

Database File chizum_lazyheart#1-26.db
 Dataset Pathname STKML/pass3.1
 Presentation Format micro
 Dataset Creation Fri May 04 02:51:03 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	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

0	MICRO NORMAL Z' (Onm-m)	40
10000	Line Weight (lb)	0



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



PIONEER
Pioneer Energy Services

Company CHIZUM OIL, LLC
Well LAZY HEART #1-26
Field WILDCAT
County SHERMAN
State KANSAS