



PIONEER
Pioneer Energy Services

MICRORESISTIVITY LOG

Company **CONCORDE RESOURCES CORP**
Well **MCDANIEL #1-13**
Field **WILDCAT**
County **LOGAN**
State **KANSAS**

Company **CONCORDE RESOURCES CORP**
Well **MCDANIEL #1-13**
Field **WILDCAT**
County **LOGAN** State **KANSAS**

Location: API #: 15-109-21581-00-00

1405' FSL & 1380' FEL

SEC 13 TWP 15S RGE 34W

Permanent Datum **GROUND LEVEL Elevation 2949'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Other Services
CNL/CDL
DIL
K.B. 2956'
D.F. N/A
G.L. 2949'

Date	5/4/2019		
Run Number	ONE		
Depth Driller	4670'		
Depth Logger	4671'		
Bottom Logged Interval	4670'		
Top Log Interval	3500'		
Casing Driller	8.625" @ 305'		
Casing Logger	304'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	4500		
Density / Viscosity	9.2 52		
pH / Fluid Loss	10.5 8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.60 @ 70		
Rmt @ Meas. Temp	0.45 @ 70		
Rmc @ Meas. Temp	0.81 @ 70		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	0.34 @ 123		
Operating Rig Time	3 HOURS		
Max Rec. Temp. F	123		
Equipment Number	P-24		
Location	HAYS		
Recorded By	D. SCHMIDT		
Witnessed By	LARRY NICHOLSON		

<<< 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.

OAKLEY,
SOUTH TO GOLD RD, WEST TO 390 RD, SOUTH TO ELK RD,
WEST TO 340, 3/4 SOUTH, WEST INTO

Log Measured From: KELLY BUSHING 7 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: LARRY NICHOLSON
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 123	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 60	degF 60	Off	ft 4671

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (233-M&W)	3.00	3.50	50.00
CNLSC	37.48			CNT-M&W (207-MW)	5.50	3.50	100.00
CNSSC	36.73						
LSD	28.43			CDL-M&W (96-916)	8.50	4.00	250.00
	DCAL	28.42					
	SSD	27.93					
MCAL	19.83			ML-PSIML (PSI-01)	7.58	4.00	65.00
	MI	19.83		GO Micro log tools converted to Simplec electronics			
	MN	19.83					
RLL3F	15.80						
RLL3	15.80						
CILD	8.00			DIL-PSI HIGH TEMP (967 (HT))	18.50	3.50	220.00

CILM

4.70

SP

0.20

Dataset: concorde_mcdaniel 1-13.db: field/well/STKML/pass4.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

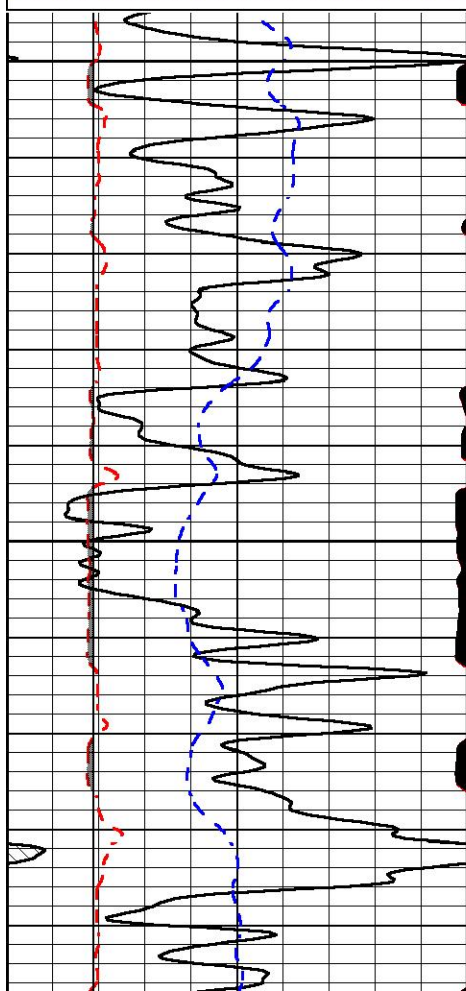


MAIN PASS

Database File concorde_mcdaniel 1-13.db
 Dataset Pathname STKML/pass5.1
 Presentation Format _micro
 Dataset Creation Sat May 04 23:53:24 2019
 Charted by Depth in Feet scaled 1:240

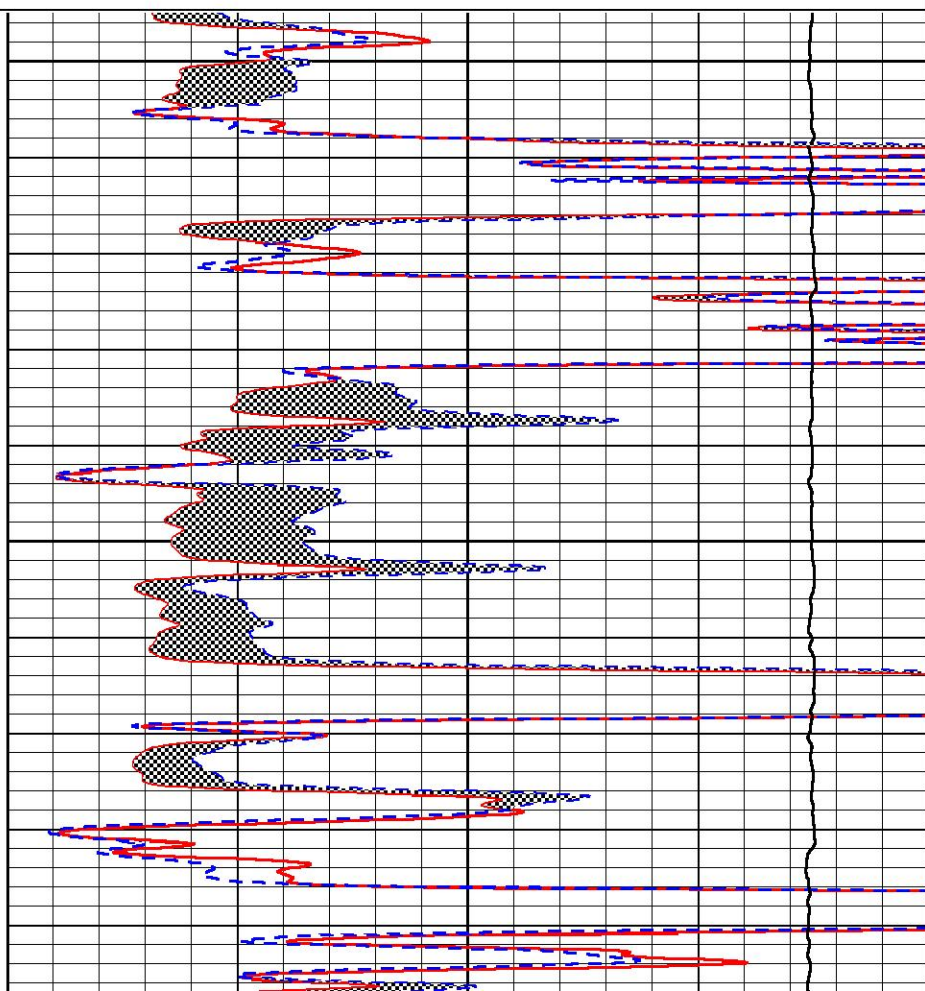
0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

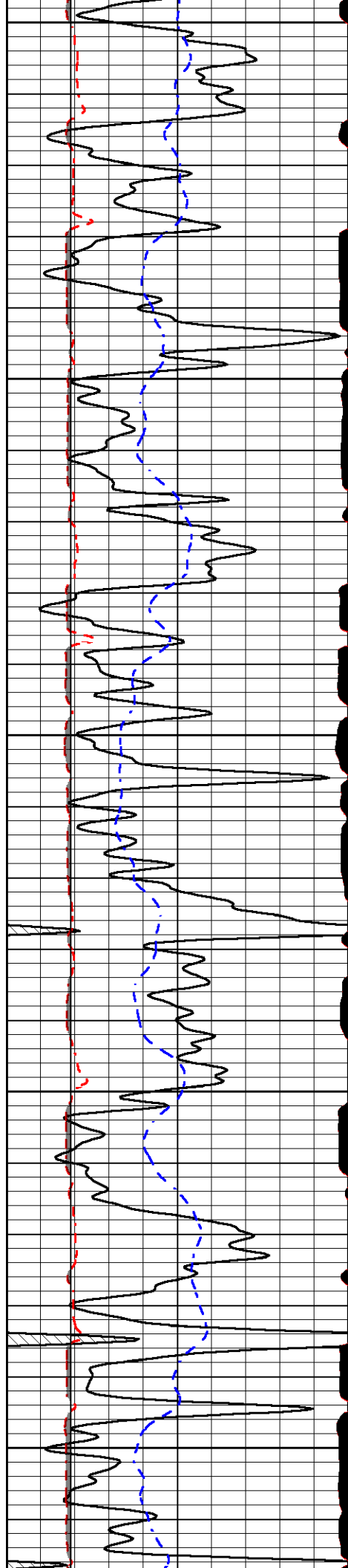
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3500

3550





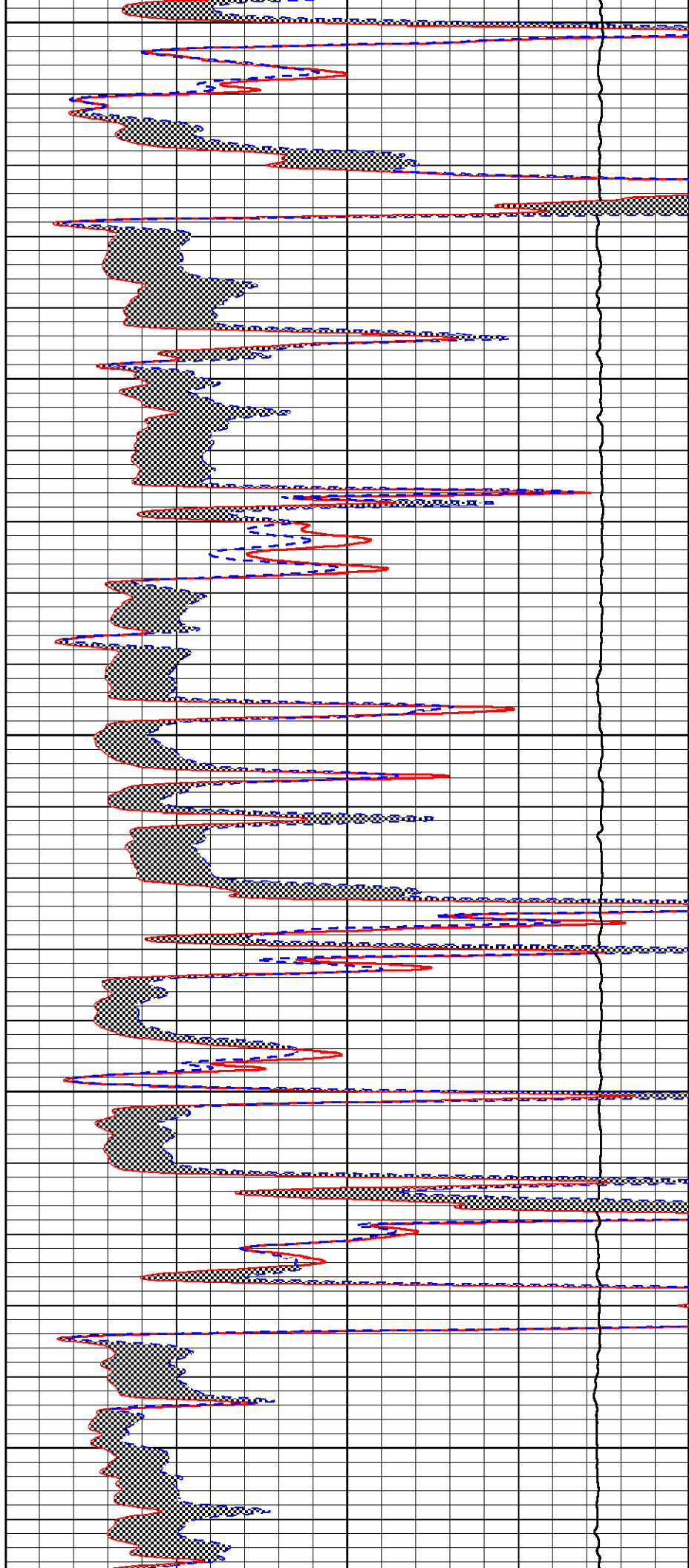
3600

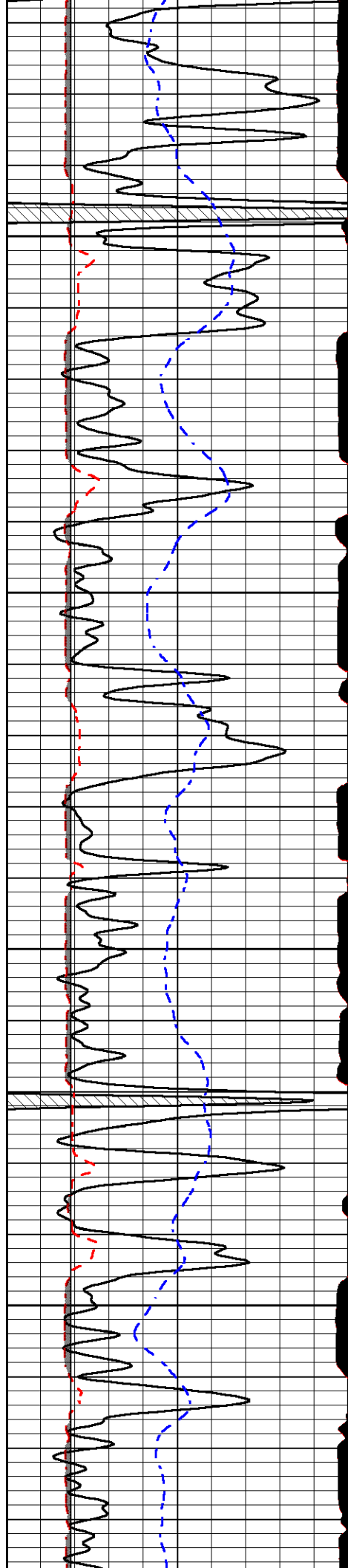
3650

3700

3750

3800



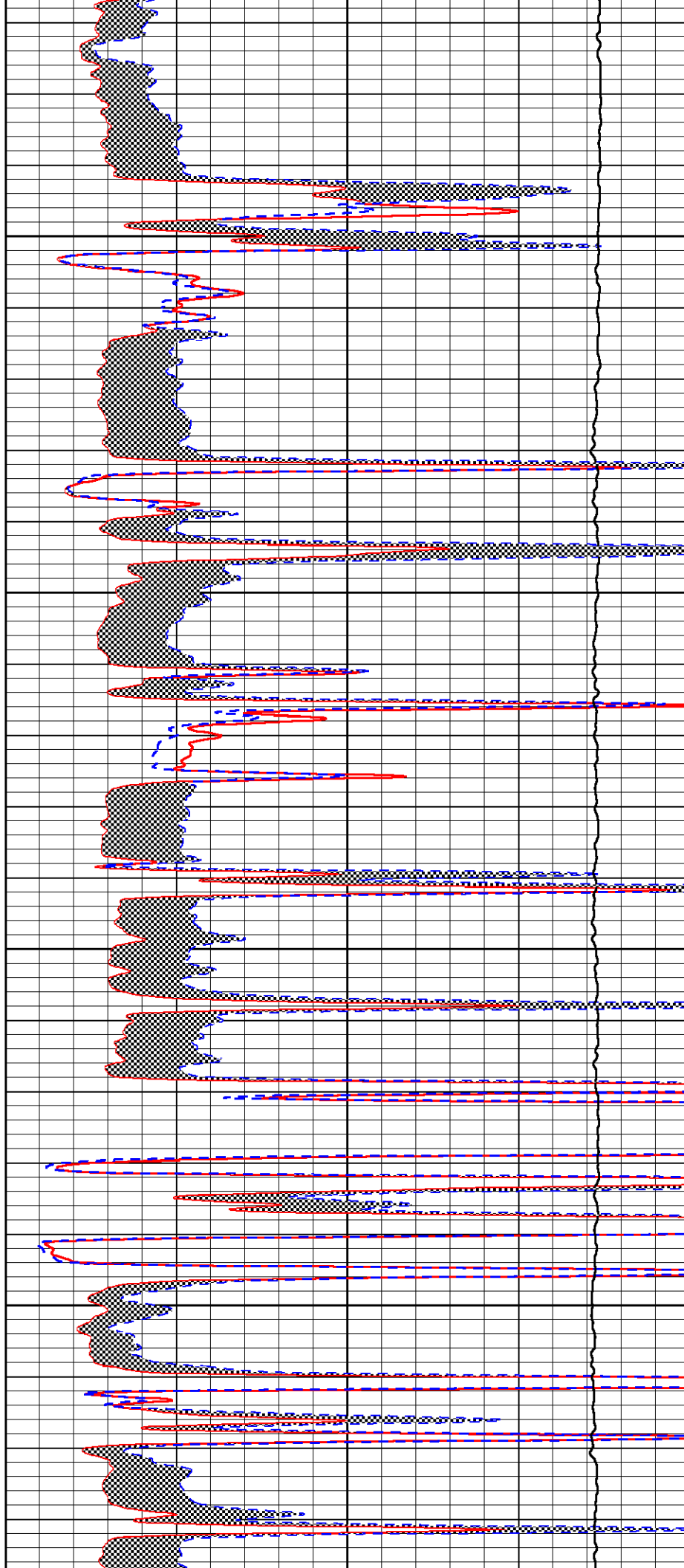


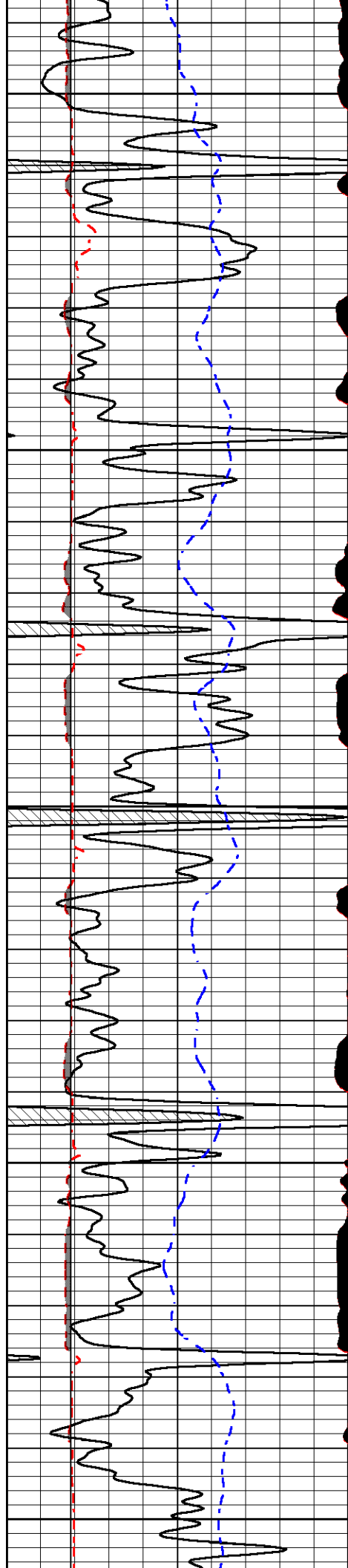
3850

3900

3950

4000





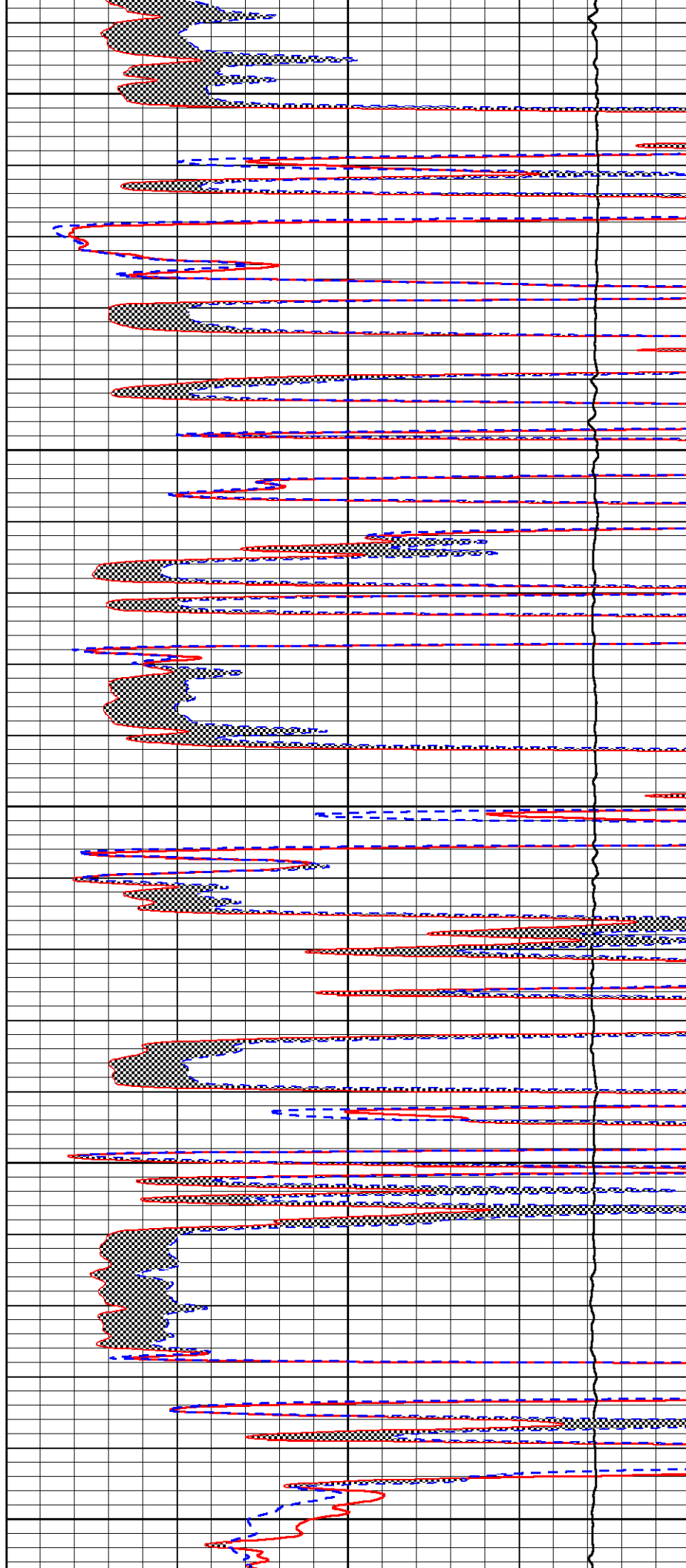
4050

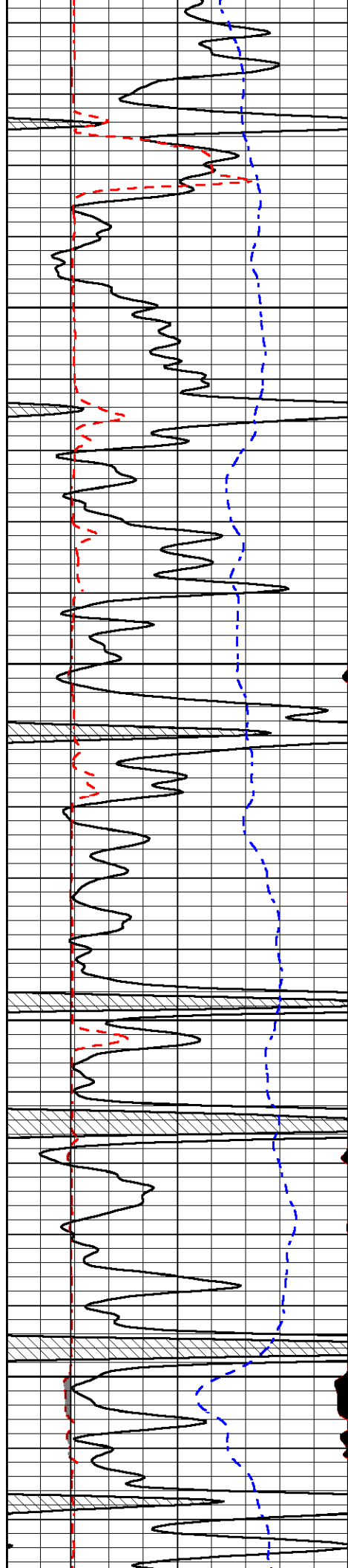
4100

4150

4200

4250



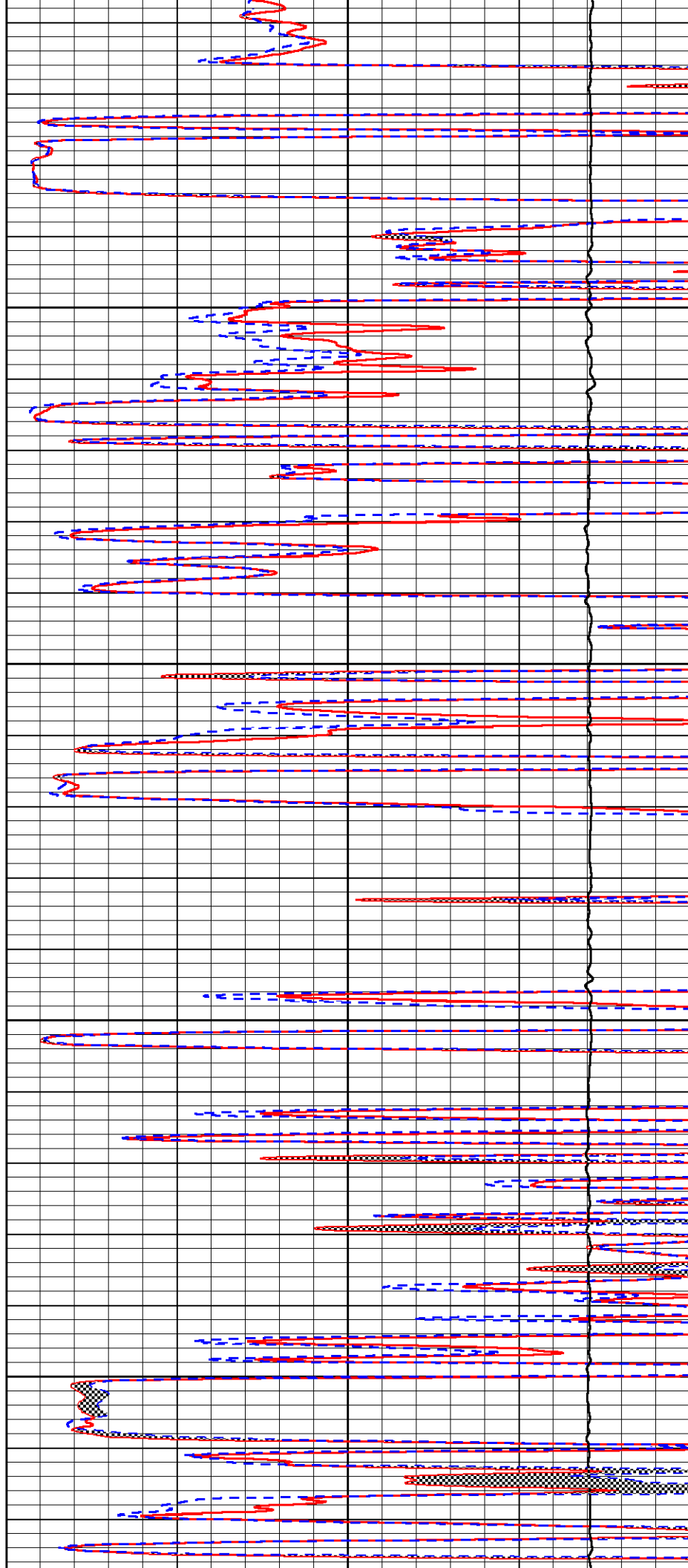


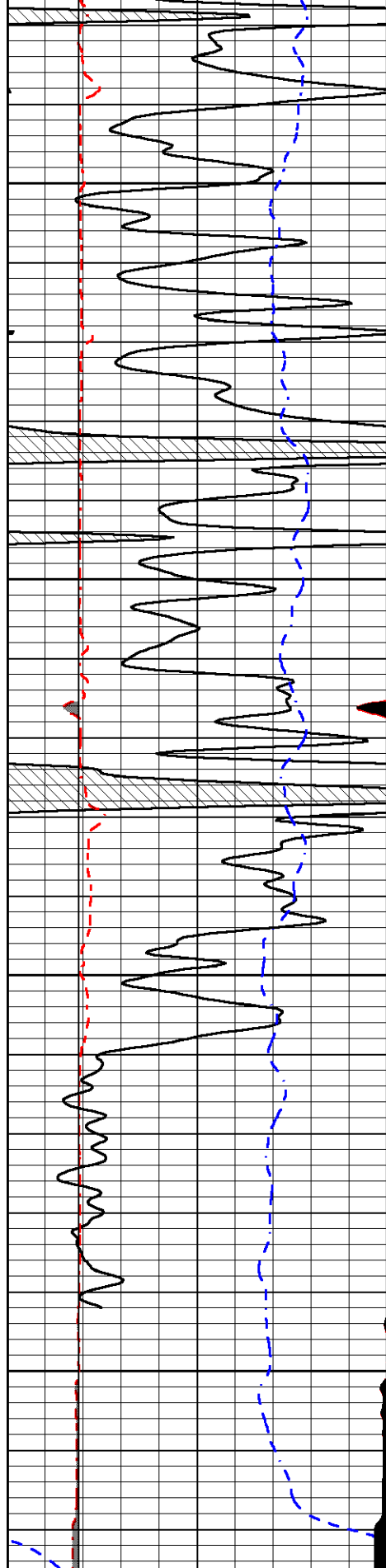
4300

4350

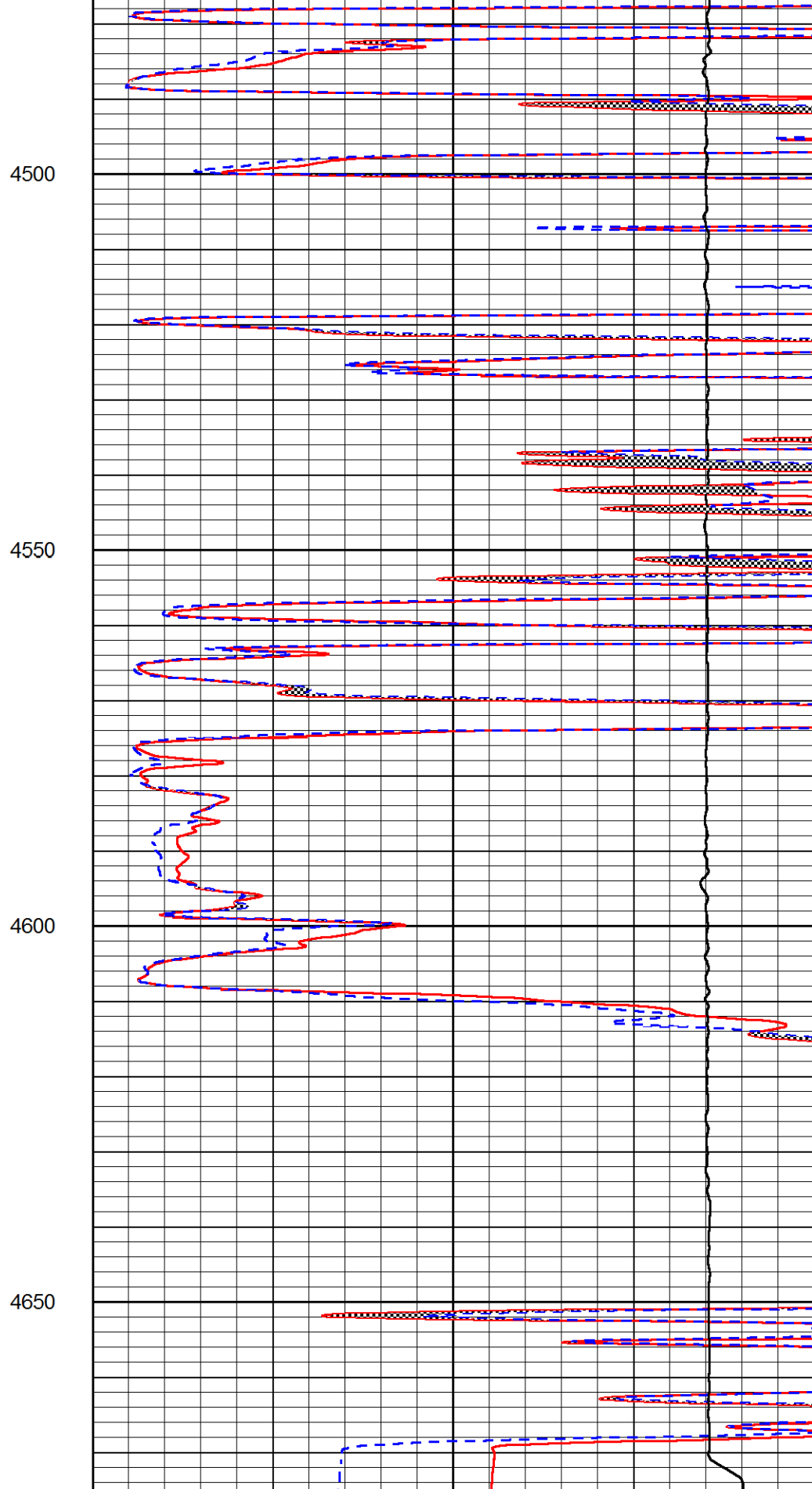
4400

4450





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

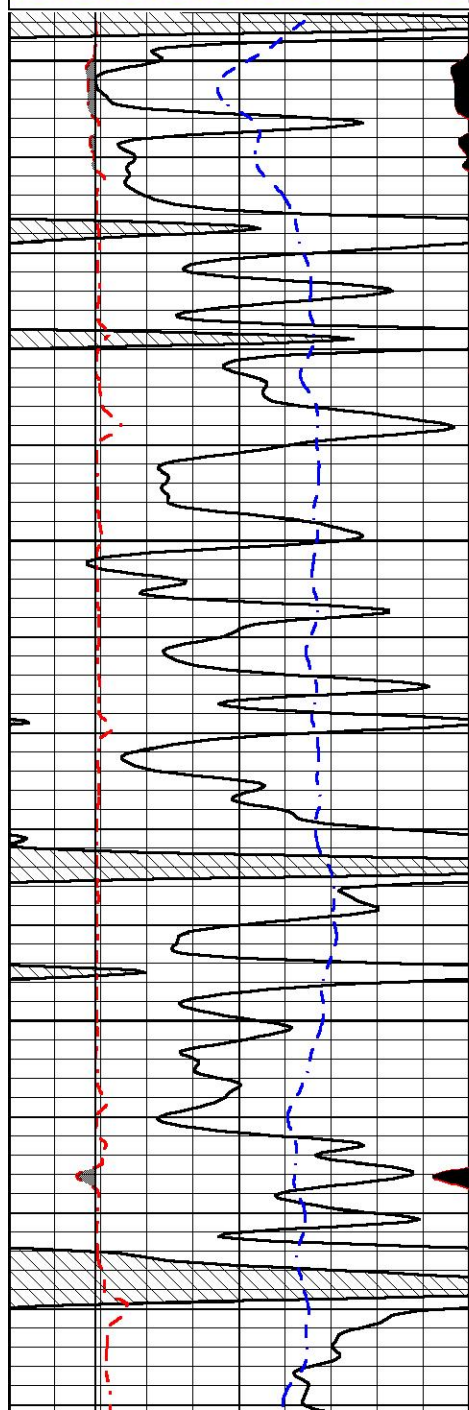


REPEAT SECTION

Database File concorde_mcdaniel 1-13.db
Dataset Pathname STKML/pass3.1
Presentation Format _micro
Dataset Creation Sat May 04 23:39:23 2019
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

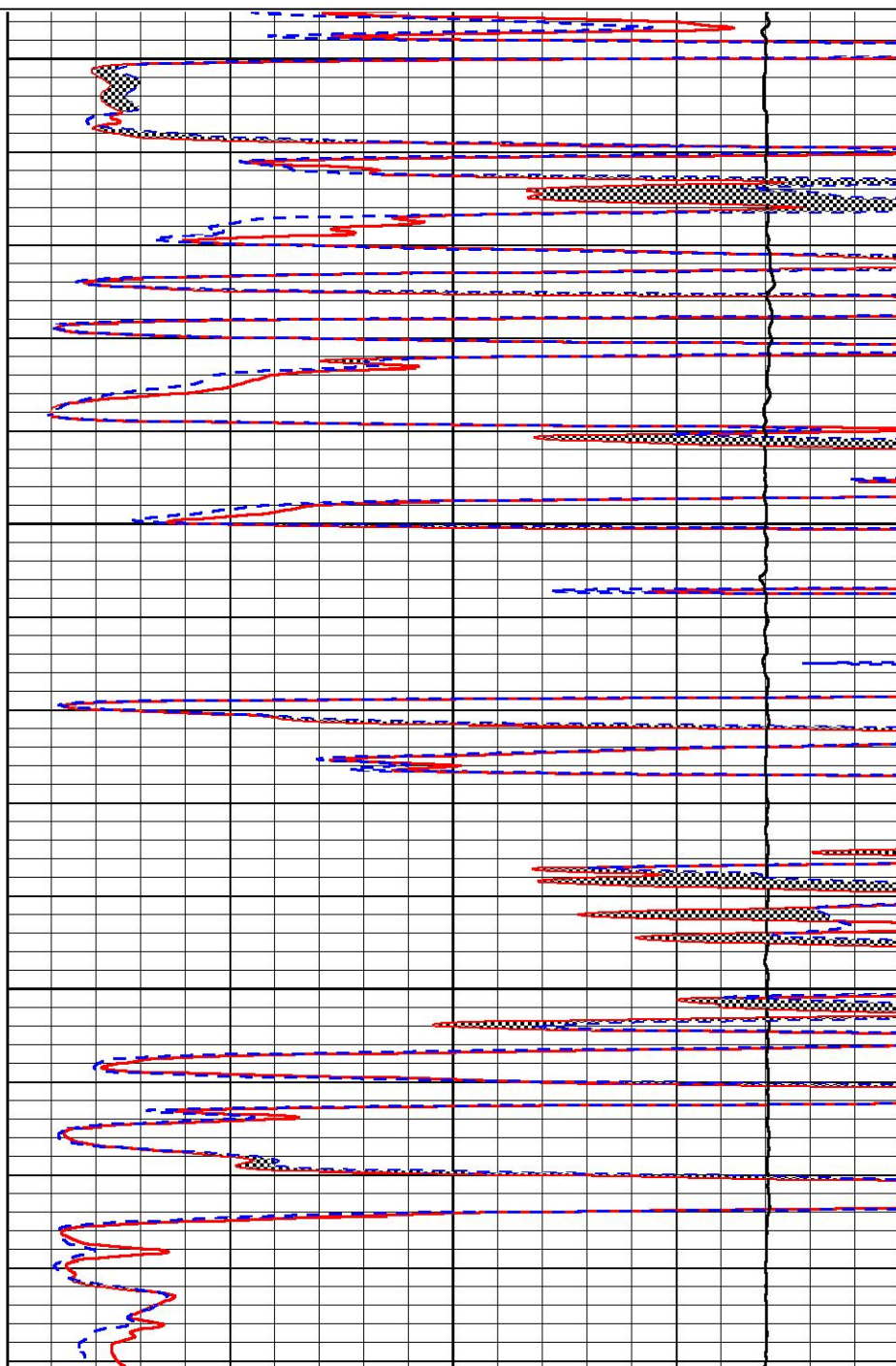
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0

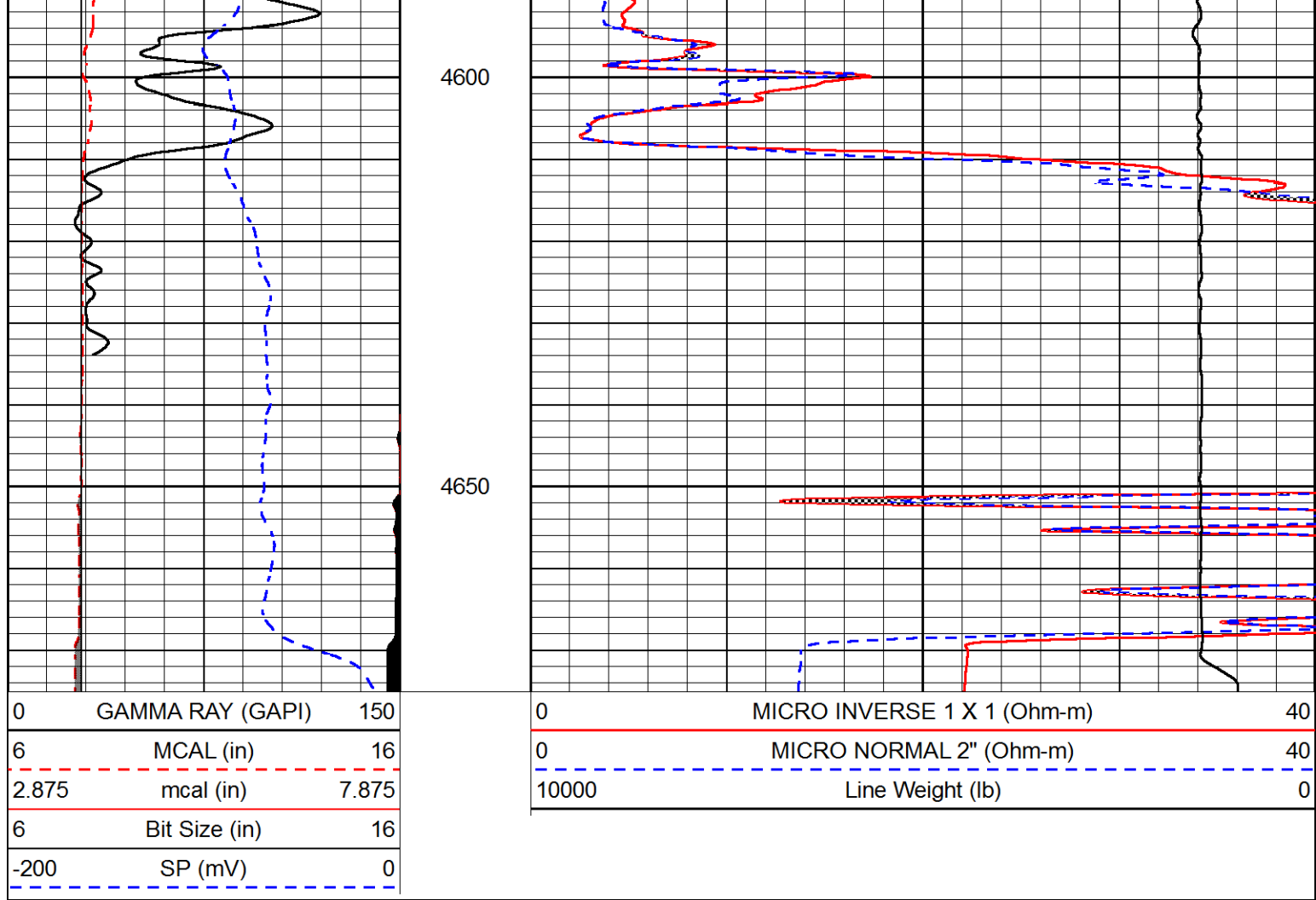


4450

4500

4550





Calibration Report							
Database File	concorde_mcdaniel 1-13.db						
Dataset Pathname	STKML/pass4.1						
Dataset Creation	Sat May 04 23:41:56 2019						
Dual Induction Calibration Report							
Serial-Model:				967 (HT)-PSI HIGH TEMP			
Calibration Performed:				Fri Apr 12 09:37:07 2019			
Readings			References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.800	mmho/m	0.565	-14.500
Medium	0.000	1348.000	142.000	255.800	mmho/m	0.390	-37.000

Microlog Calibration Report							
Serial-Model:				PSI-01-PSIML			
Performed:				Sun Feb 24 09:53:40 2019			
Readings		References			Results		
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	26000.0000	-0.7000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	43000.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.7000

Compensated Density Calibration Report

Serial-Model: 96-916-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Wed Mar 27 11:00:53 2019

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	8943.64	10054.60	cps
Aluminum	2.665	g/cc	1595.61	6242.82	cps
Spine Angle = 74.54			Density/Spine Ratio = 0.509		
	Size		Reading		
Small Ring	6.00	in	1.75		
Large Ring	16.00	in	1.46		

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: WED FEB 13 10:30:30 2019

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: 233-M&W
Tool Model: M&W
Calibration Performed: Fri Feb 07 01:42:40 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5500 GAPI/cps



Company CONCORDE RESOURCES CORP
Well MCDANIEL #1-13
Field WILDCAT
County LOGAN
State KANSAS