



MICRORESISTIVITY LOG

PIONEER
Pioneer Energy Services

Company **CONCORDE RESOURCES CORP.**
Well **RETA NO. 2-27**
Field **WILDCAT**
County **LOGAN**
State **KANSAS**

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Location: API #: 15-109-21515-00-00
1924' FNL & 335' FEL
38.723883988
-101.077984948
SEC 27 TWP 15S RGE 34W
Permanent Datum **GROUND LEVEL Elevation 2977'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**
Other Services
CNL/CDL
DIL
Elevation
K.B. 2987'
D.F. N/A
G.L. 2977'

Date	8/2/2017
Run Number	ONE
Depth Driller	4658'
Depth Logger	4657'
Bottom Logged Interval	4656'
Top Log Interval	3600'
Casing Driller	8.625" @ 306'
Casing Logger	303'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	4,500
Density / Viscosity	9.1 51
pH / Fluid Loss	10.5 9.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.65 @ 65
Rmt @ Meas. Temp	.49 @ 65
Rmc @ Meas. Temp	.88 @ 65
Source of Rmt / Rmc	CHARTS
Rm @ BHT	.34 @ 123
Operating Rig Time	3 HOURS
Max Rec. Temp. F	123 DEGF
Equipment Number	108
Location	HAYS
Recorded By	J. HENRICKSON
Witnessed By	LARRY NICHOLSON

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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.

OAKLEY KANSAS

SOUTH TO GOLD, WEST TO 390, SOUTH TO ELK, WEST TO 340,
SOUTH TO COYOTE, WEST TO 320, 1/2 SOUTH, WEST INTO
(NEXT TO GRAIN BINS)

Log Measured From: KELLY BUSHING

10 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

www.pioneerenergy.com

785-625-3858

Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

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

DatabaseC:\ProgramData\Warrior\Data\concorde_reta_2_27.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	123	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-360	75	Off	4657

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	40.58			GR-M&W (89-M&W)	3.00	3.50	50.00	
CNLSC	37.48			CNT-M&W (tk10-MW)	5.50	3.50	100.00	
CNSSC	36.73							
					CDL-M&W (168-986)	8.50	4.00	250.00
LSD	28.43							
DCAL	28.42							
SSD	27.93				ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
MCAL	19.83							
MI	19.83							
MN	19.83							
RLL3	15.80							
RLL3F	15.79							

CILM

4.70

SP

0.20

Dataset: concorde_reta_2_27.db: field/well/stackml/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

**PIONEER**

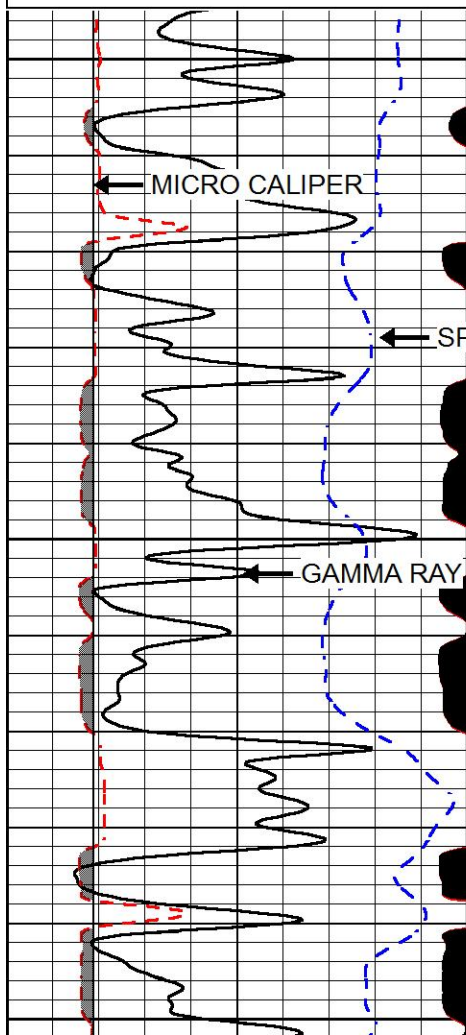
Pioneer Energy Services

MAIN PASS

Database File concorde_reta_2_27.db
Dataset Pathname stackml/pass3.1
Presentation Format micro
Dataset Creation Wed Aug 02 23:17:08 2017
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
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
15000	LINE TENSION (lb)	0



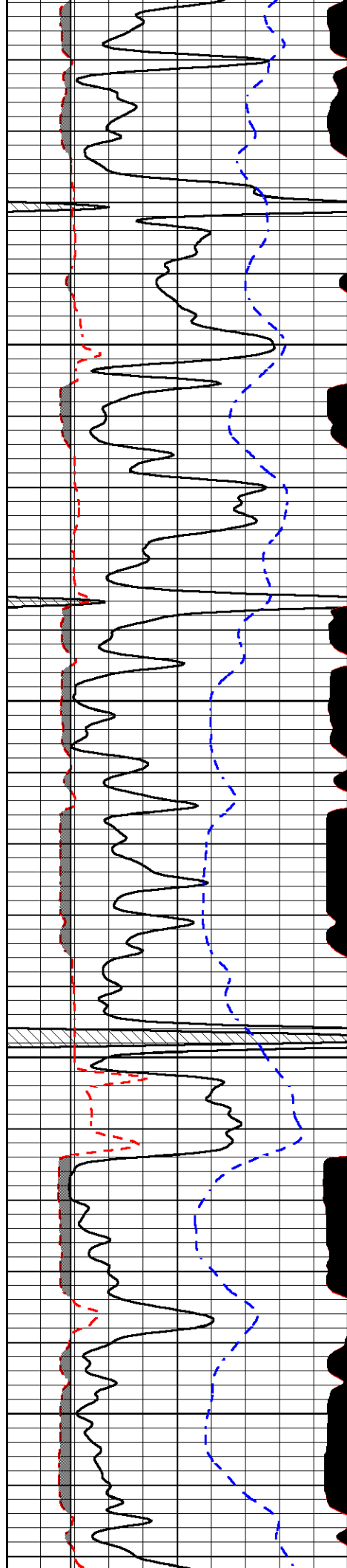
3600

MICRO INVERSE 1 X 1

MICRO NORMAL 2"

3650

3700

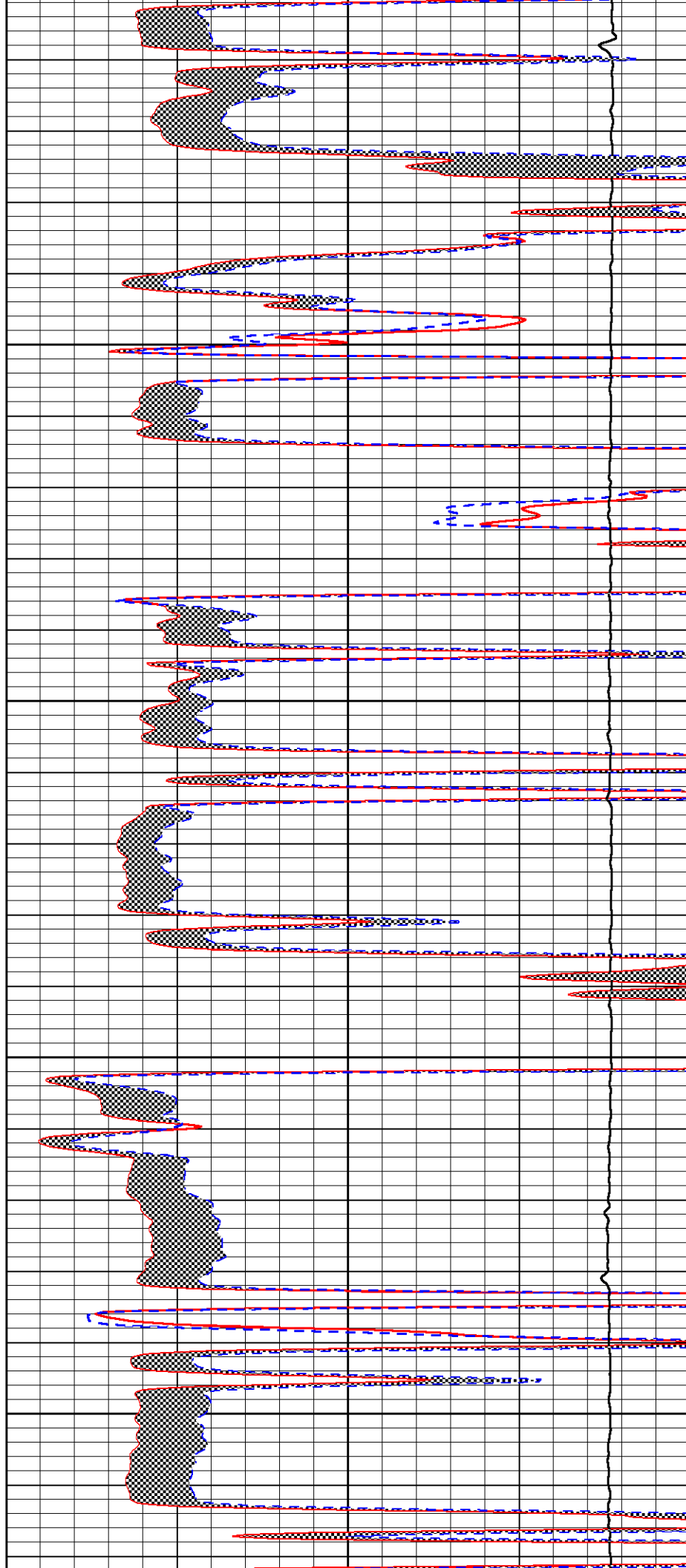


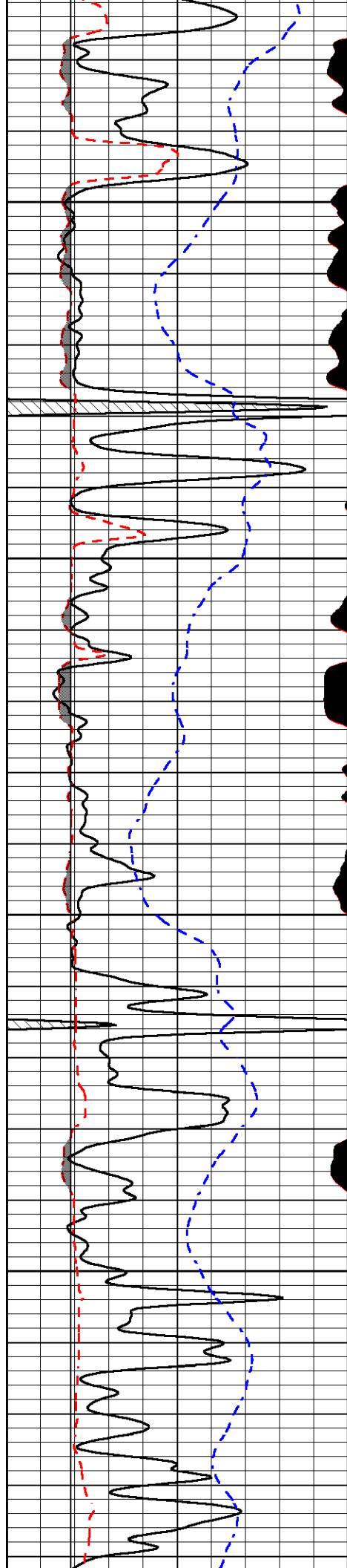
3750

3800

3850

3900



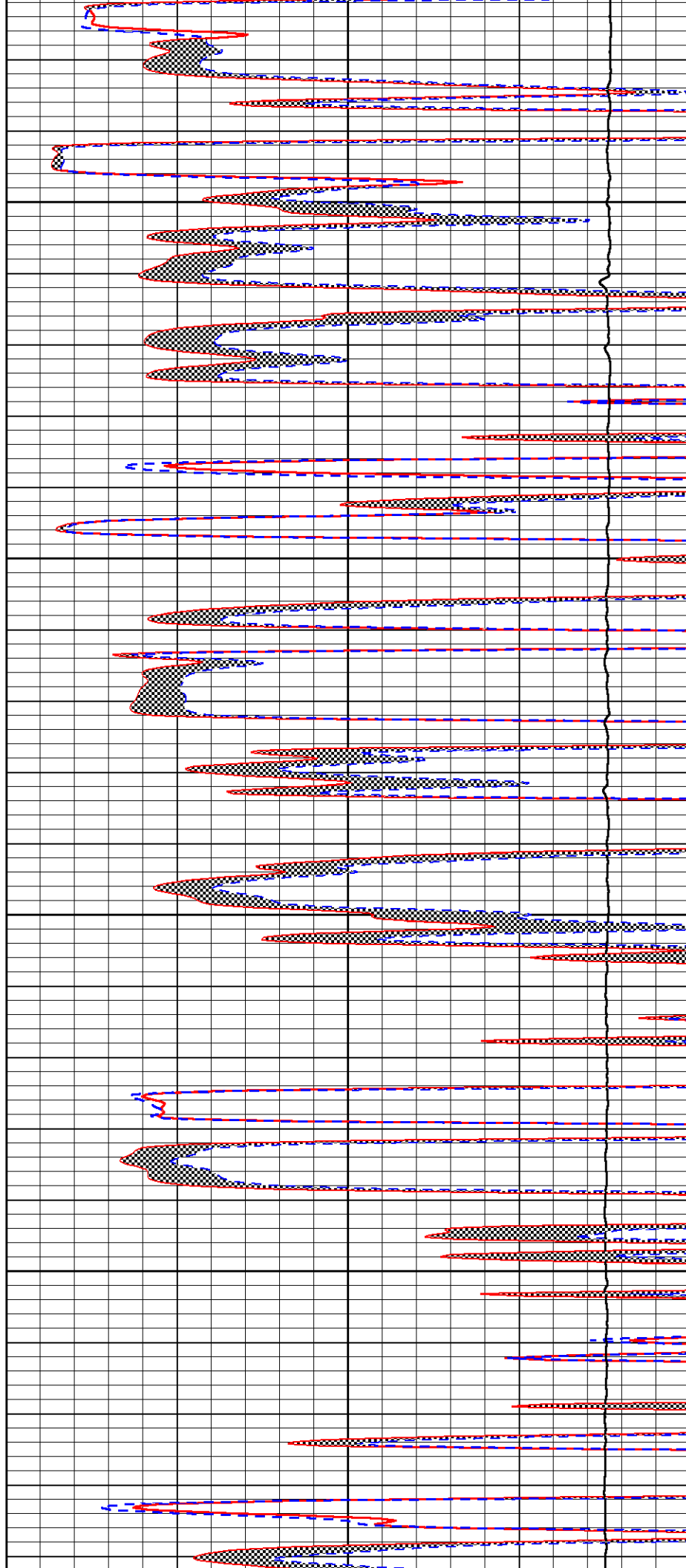


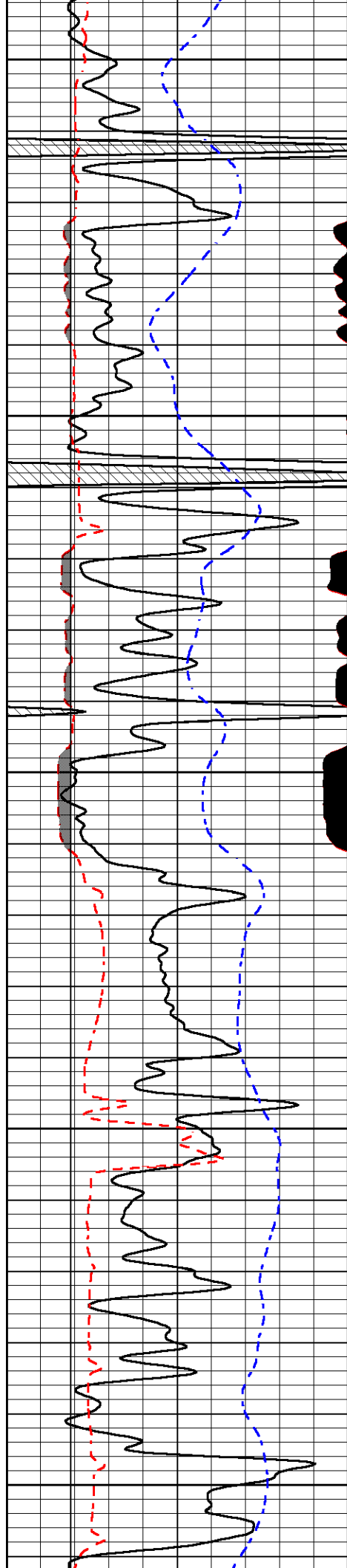
3950

4000

4050

4100





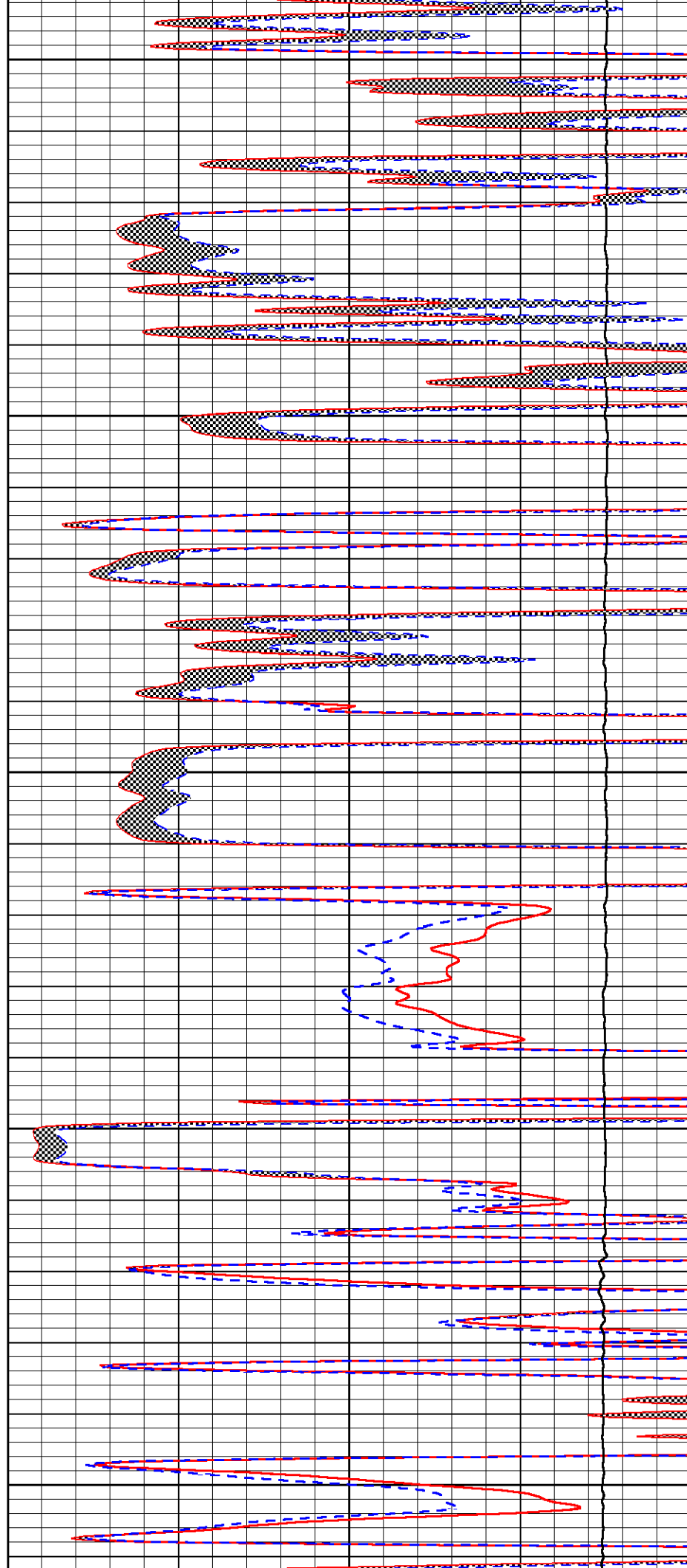
4150

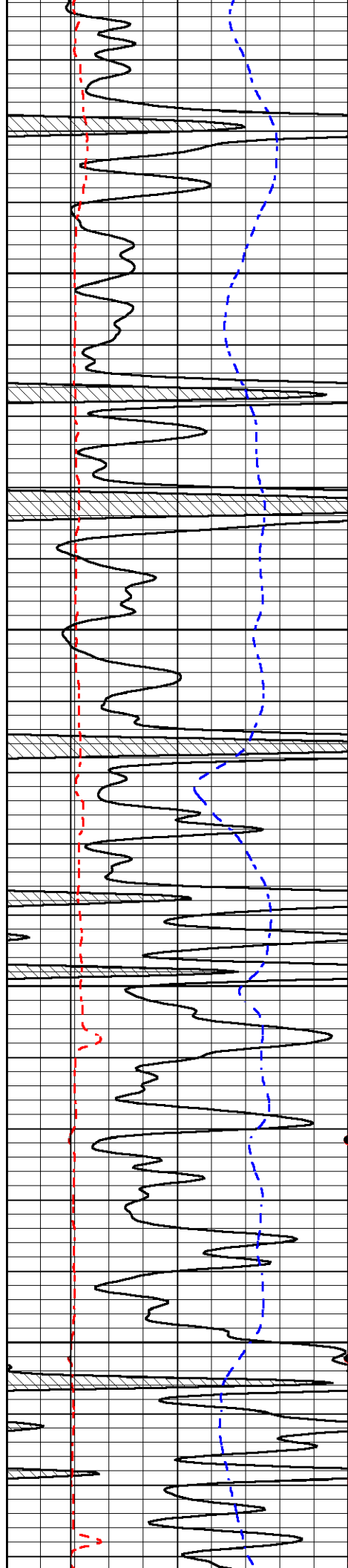
4200

4250

4300

4350



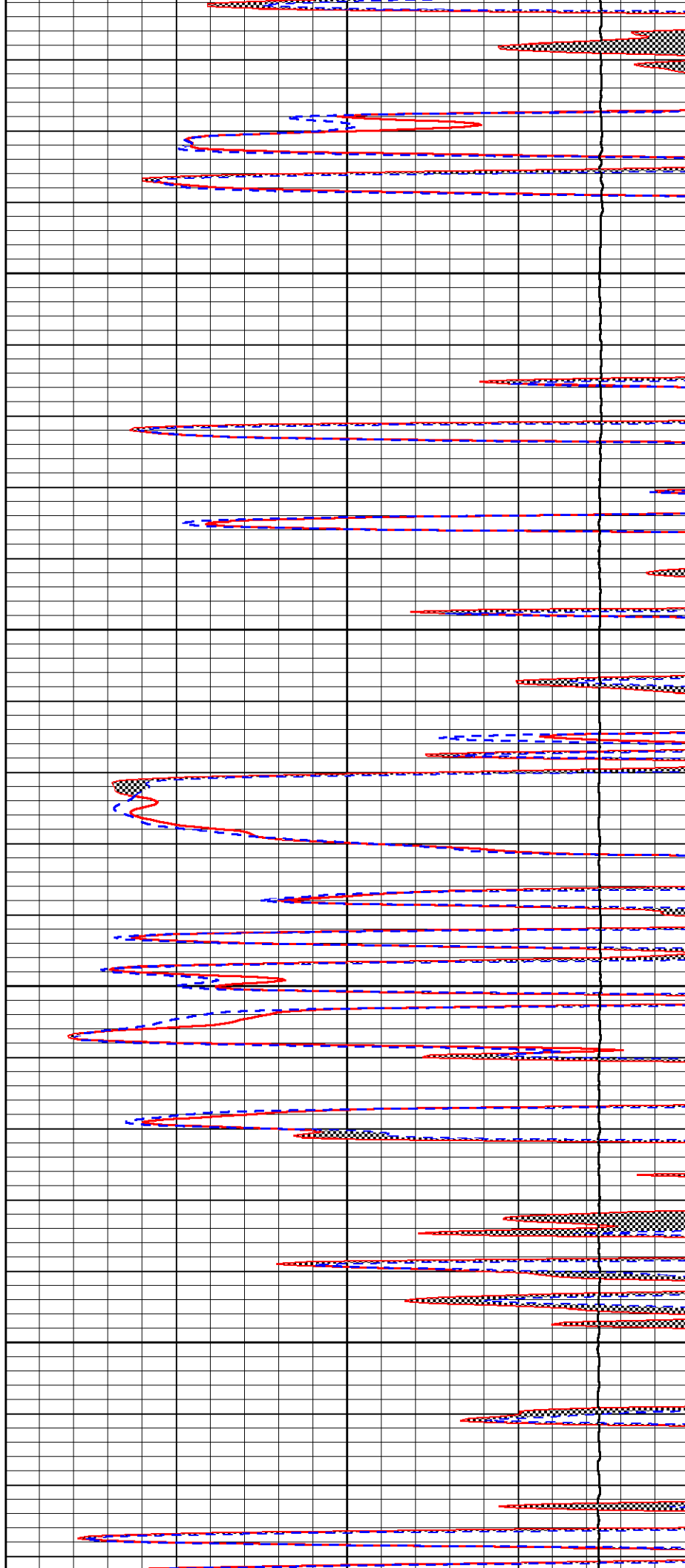


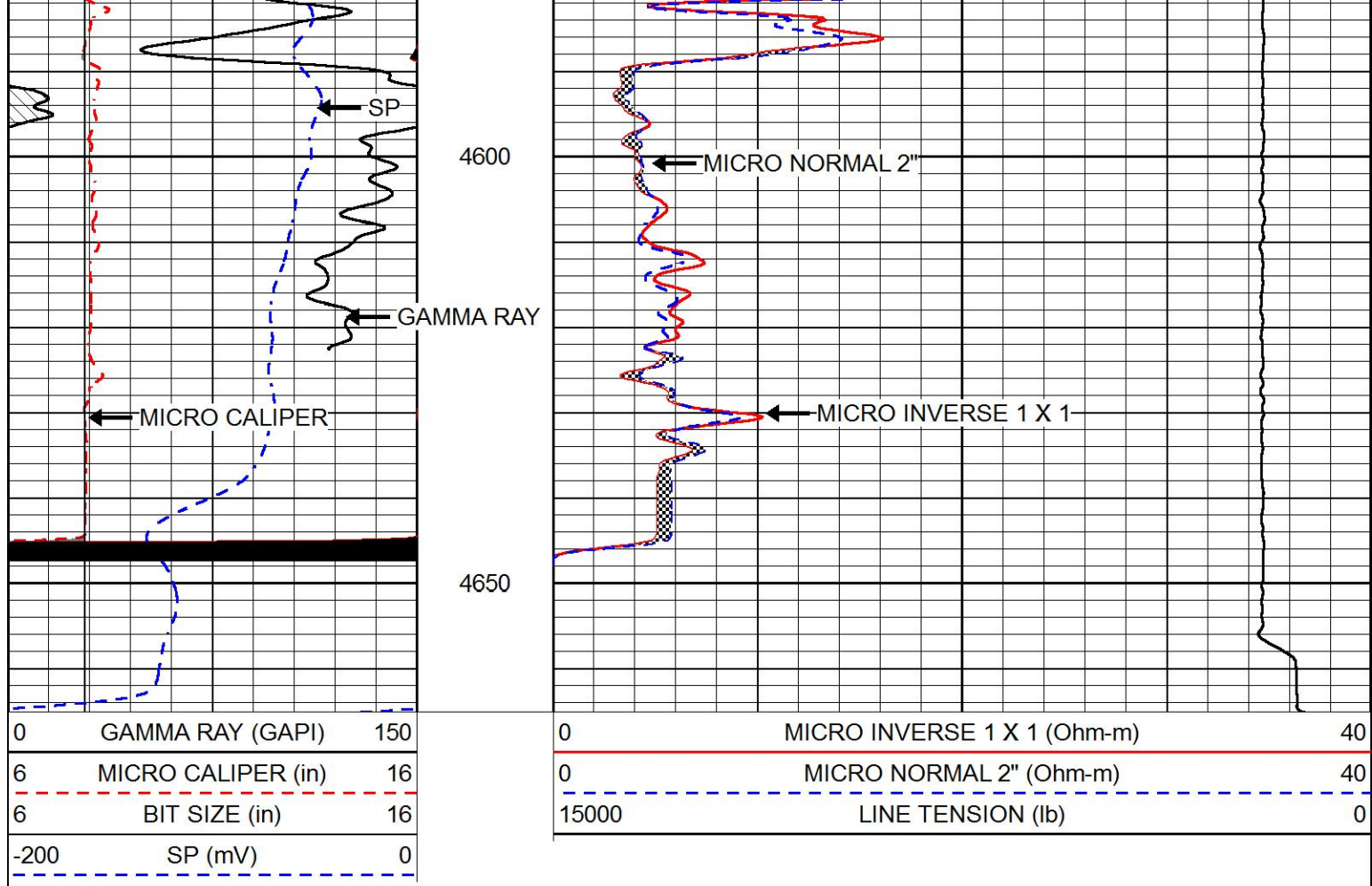
4400

4450

4500

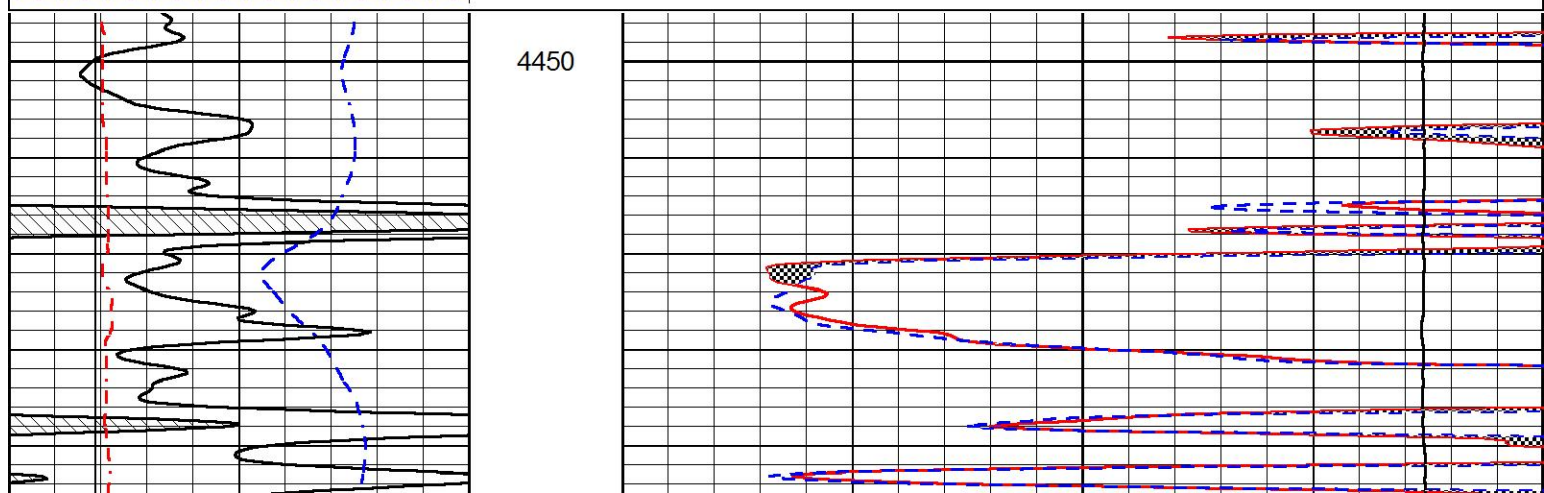
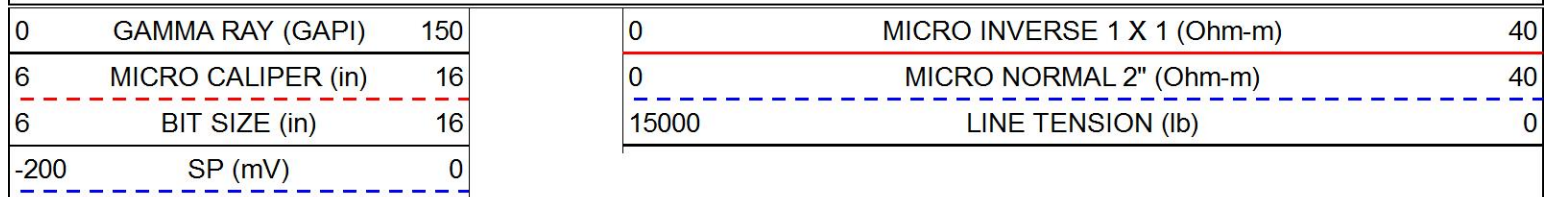
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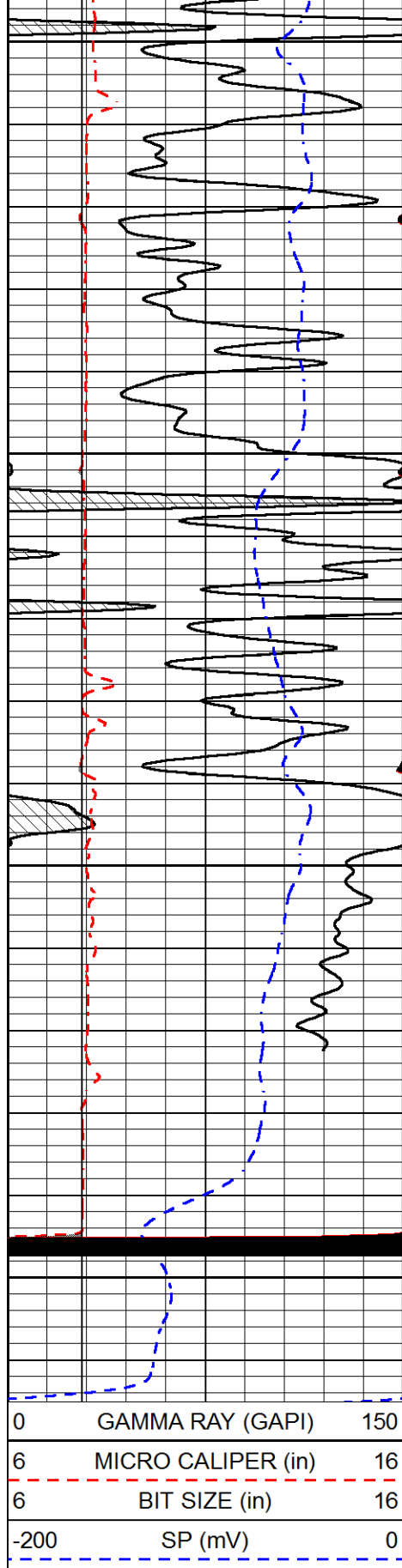




REPEAT SECTION

Database File concorde_reta_2_27.db
 Dataset Pathname stackml/pass2.1
 Presentation Format micro
 Dataset Creation Wed Aug 02 23:10:25 2017
 Charted by Depth in Feet scaled 1:240





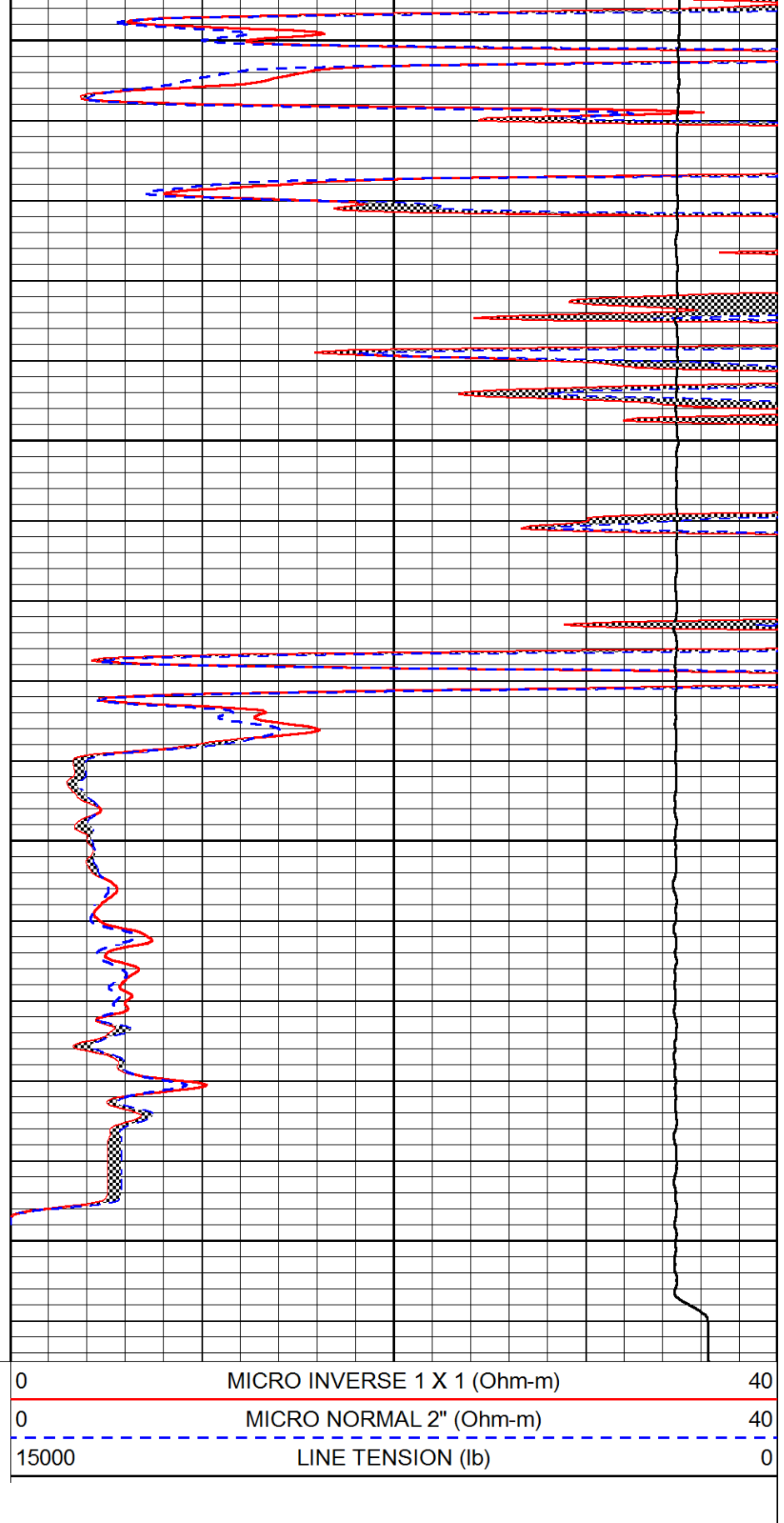
4500

4550

4600

4650

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
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
15000	LINE TENSION (lb)	0

Calibration Report

Database File concorde_reta_2_27.db
Dataset Pathname stackml/pass3.1
Dataset Creation Wed Aug 02 23:17:08 2017

Serial-Model:
Calibration Performed:

1987-M&W
Tue Apr 11 16:07:38 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.530	-36.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.440	-110.500

Microlog Calibration Report

Serial-Model:
Performed:

PSI-02-PSI STKBL ML
Fri Jun 23 00:25:19 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	29000.0000	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	34000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.5000

Compensated Density Calibration Report

Serial-Model:
Source / Verifier:
Master Calibration Performed:

168-986-M&W
/
Tue Apr 11 16:07:47 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.675	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.523		
	Size		Reading		
Small Ring	4.00	in	1.03		
Large Ring	14.00	in	1.23		

Compensated Neutron Calibration Report

Serial Number: tk10-MW
Tool Model: M&W
Calibration Performed: Wed Nov 16 11:21:36 2016

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-M&W
Tool Model: M&W
Calibration Performed: Tue Apr 11 16:08:01 2017

Calibrator Value: 1000.0 GAPI

Background Reading:
Calibrator Reading:

0.0
6.2

cps
cps

Sensitivity:

0.5200

GAPI/cps



Company	CONCORDE RESOURCES CORP.
Well	RETA NO. 2-27
Field	WILDCAT
County	LOGAN
State	KANSAS