



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Ritchie Exploration, Inc.		Company Ritchie Exploration, Inc.	
Well	Schneweis Ventures 13A #1	Well	Schneweis Ventures 13A #1
Field	Thunder	Field	Thunder
County	Ford	County	Ford
State	Kansas	State	Kansas
Location: API #: 15-057-21063-00-00		Other Services	
980 FNL & 1505 FEL		CNL/CDL DIL/BHCS	
Permanent Datum	Ground Level	Elevation	2428
Log Measured From	Kelly Bushing	K.B.	2440
Drilling Measured From	Kelly Bushing	D.F.	2428
		G.L.	2428
SEC 13 TWP 27S RGE 24W			
Date	2/25/2022		
Run Number	One		
Depth Driller	5050		
Depth Logger	5054		
Bottom Logged Interval	5053		
Top Log Interval	3400		
Casing Driller	8.625 @ 373		
Casing Logger	368		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4300		
Density / Viscosity	9.4 62		
pH / Fluid Loss	11.0 7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.65 @ 75		
Rmt @ Meas. Temp	.49 @ 75		
Rmc @ Meas. Temp	.88 @ 75		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.39 @ 127		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	127		
Equipment Number	P-108		
Location	HAYS		
Recorded By	J. Henrickson		
Witnessed By	Kent Matson		

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All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline 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.

Wright Kansas
South to Lariat Way, 3/4 East,
North Into

Log Measured From: Kelly Bushing 12 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew

Engineer: J. Henrickson
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Kent Matson
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 124	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 480	degF 0	Off	ft 5054

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (103)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (210)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (303-03)	8.50	4.00	250.00
ML-PSI STKBL ML (402)			ML-PSI STKBL ML (402)	7.58	4.00	65.00
MCAL MI MN	19.58 19.58 19.58					
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (504 HT)	18.25	3.50	220.00

CILM	4.50								
SP	0.20								
Dataset: ritchie_schneweis_ventures_13a_1.db: field/well/stackml/pass3.1 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in									

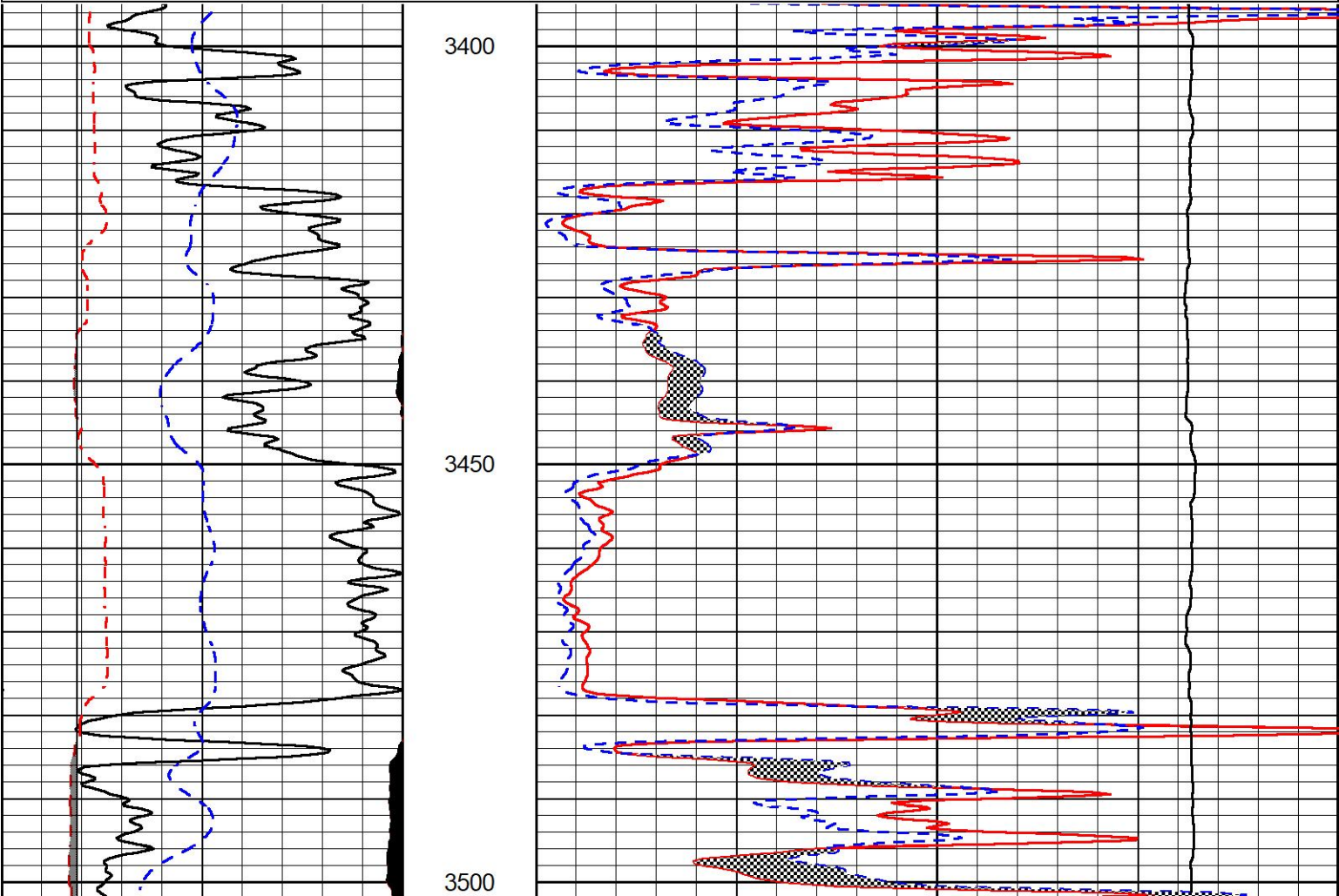


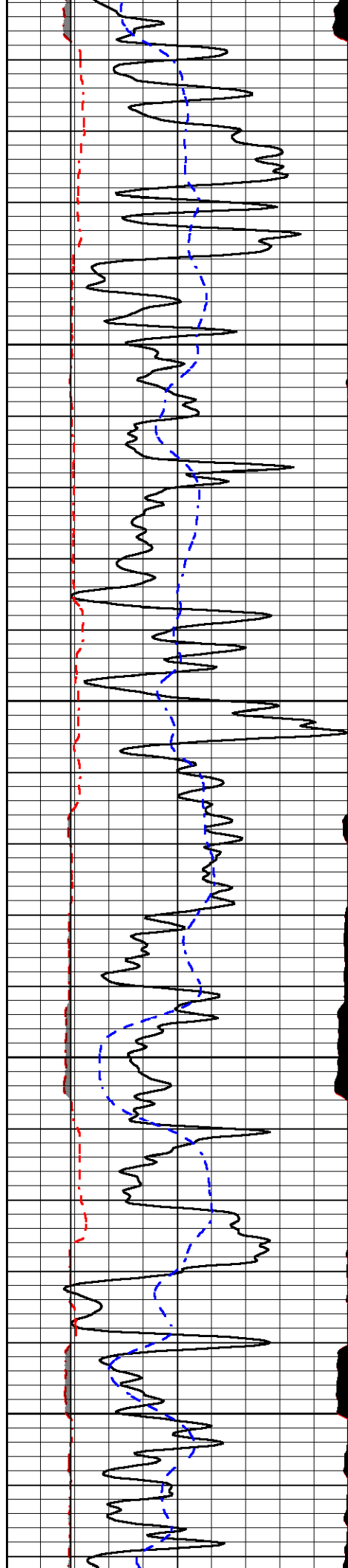
DETAIL SECTION

MAIN PASS

Database File	ritchie_schneweis_ventures_13a_1.db
Dataset Pathname	stackml/pass4.1
Presentation Format	_micro
Dataset Creation	Fri Feb 25 11:58:09 2022
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0	Micro Inverse 1 X 1 (Ohm-m)	40
6	Caliper (in)	16	0	Micro Normal 2" (Ohm-m)	40
2.875	mccl (in)	7.875	10000	Line Weight (lb)	0
-200	SP (mV)	0			



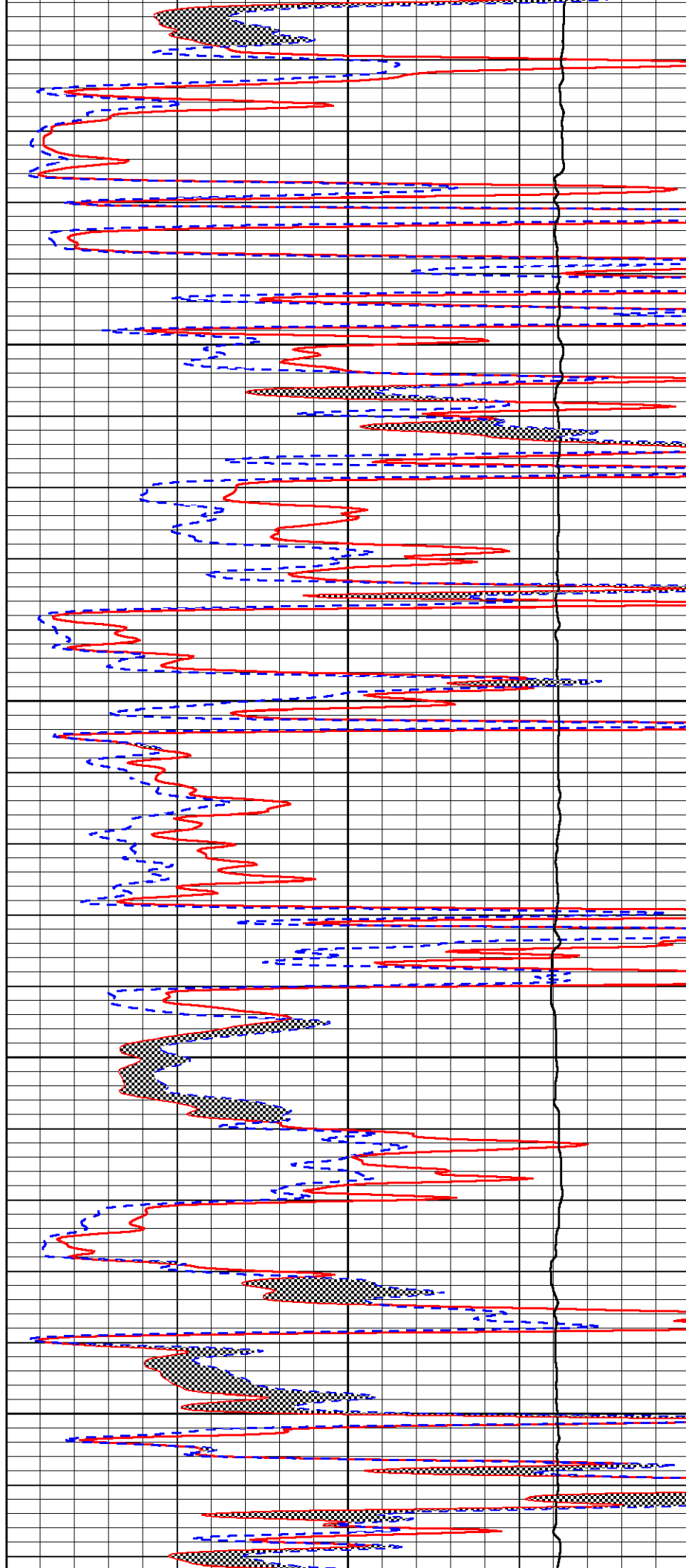


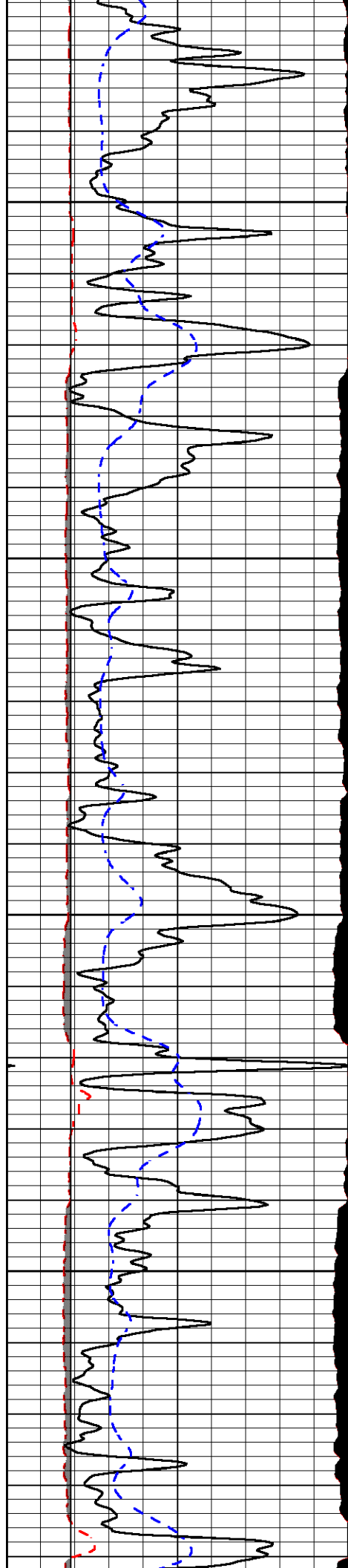
3550

3600

3650

3700



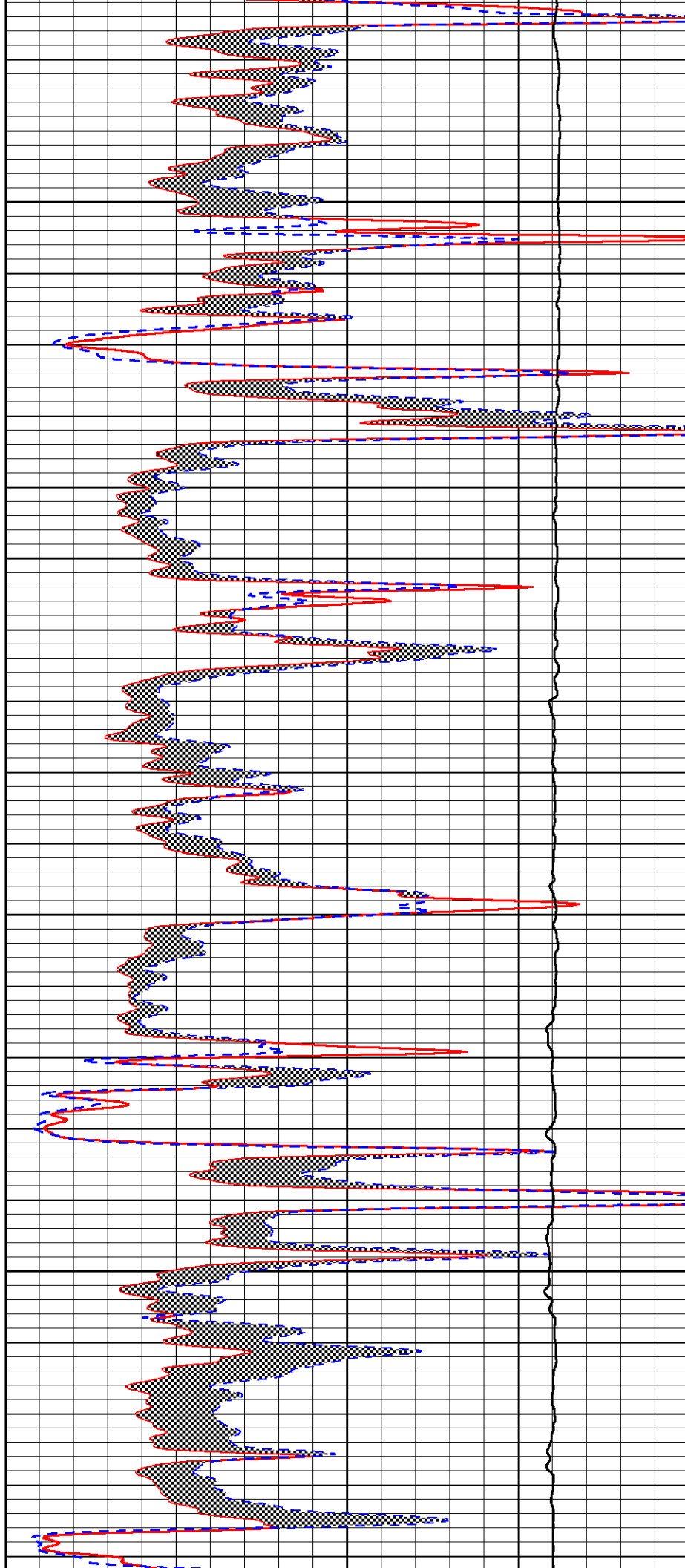


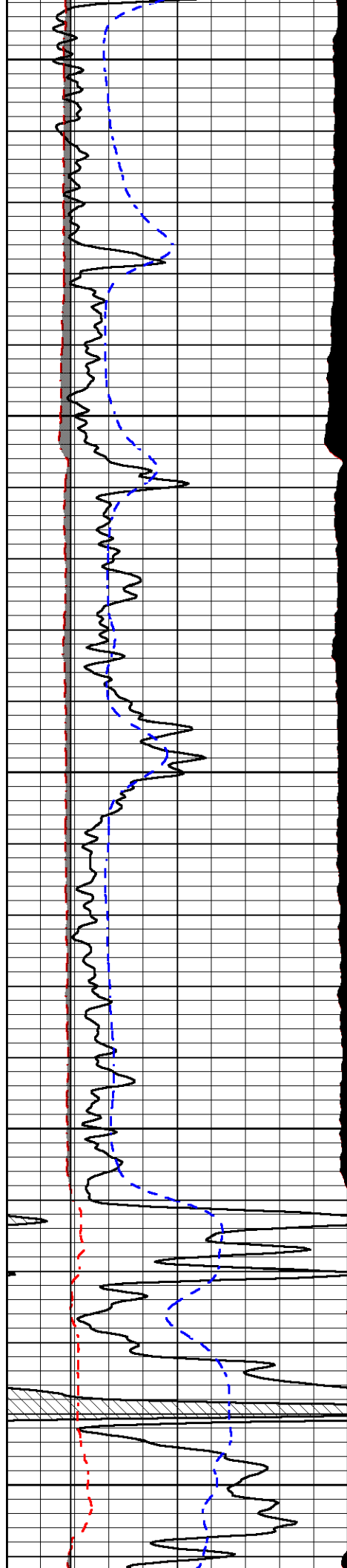
3750

3800

3850

3900





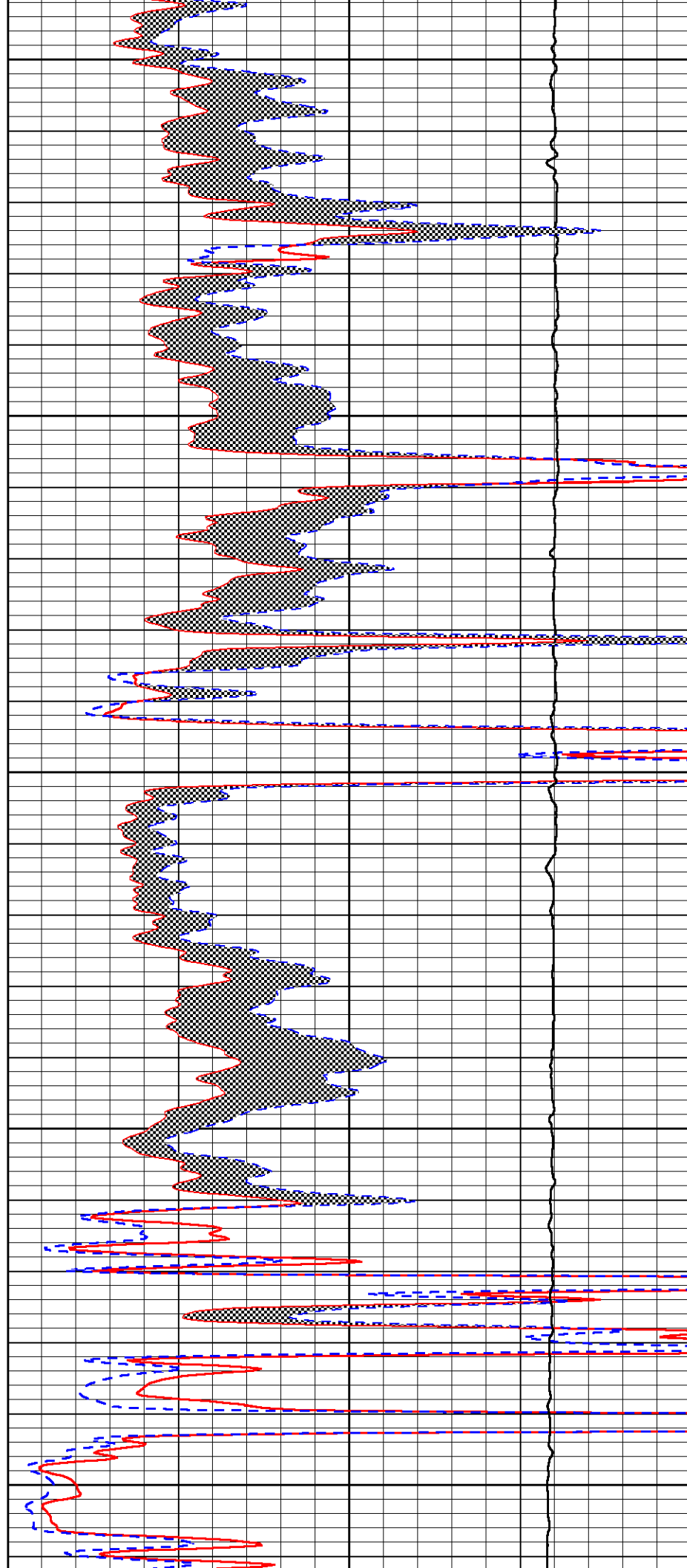
3950

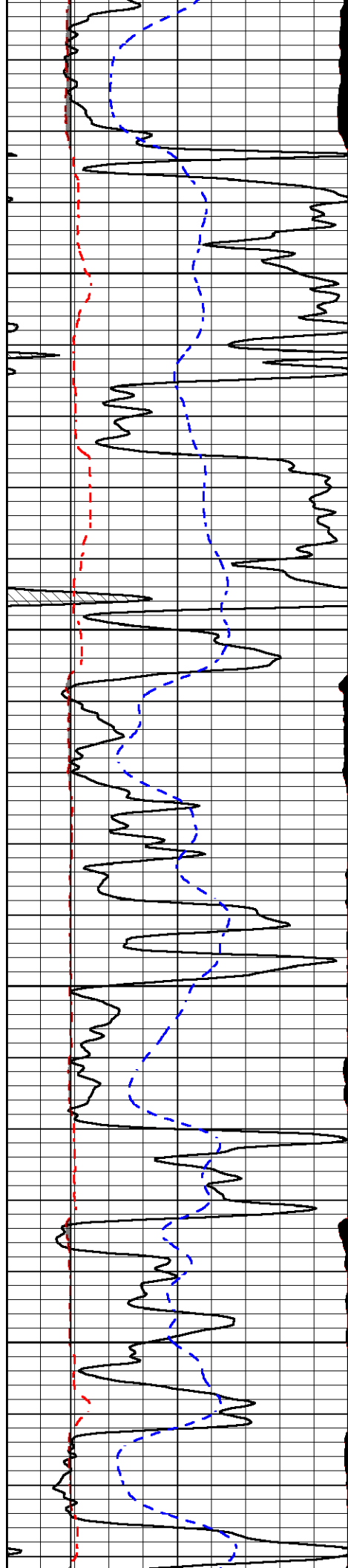
4000

4050

4100

4150



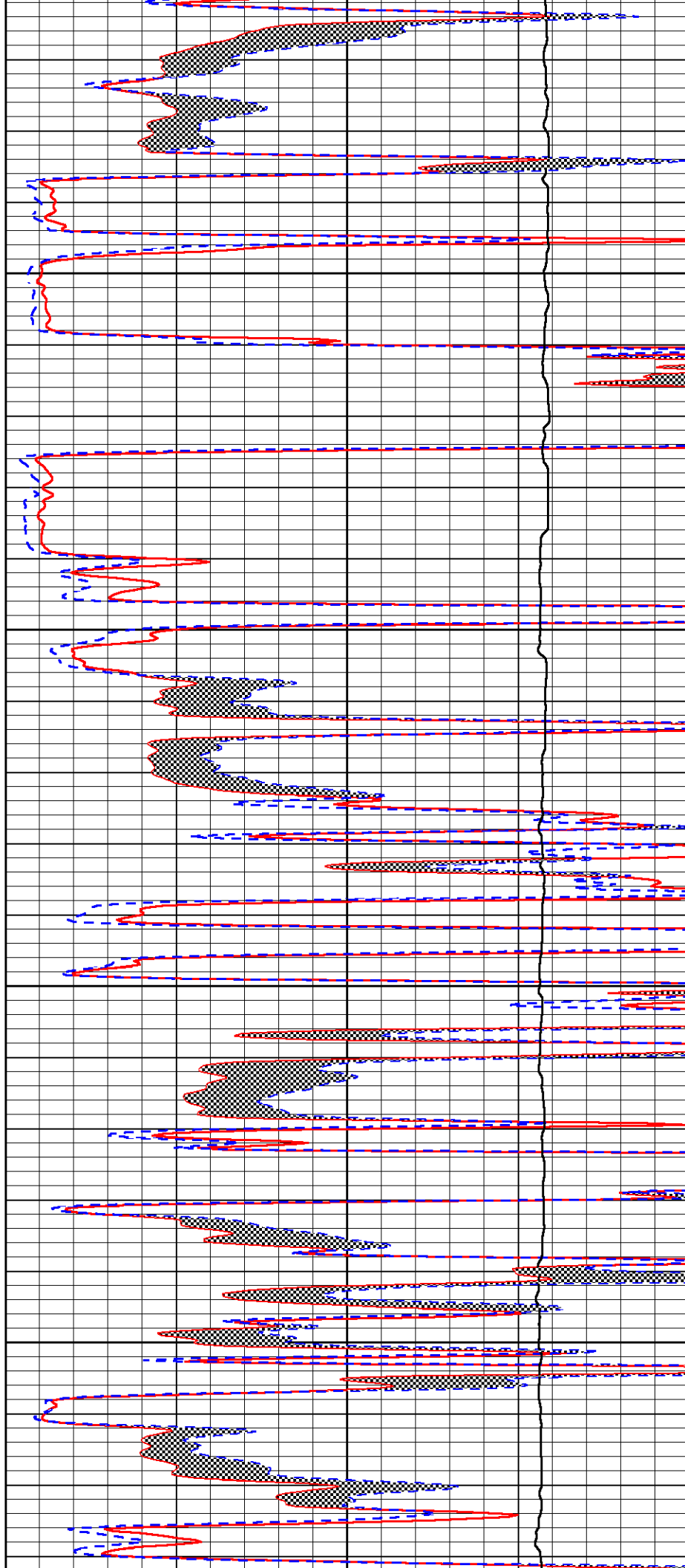


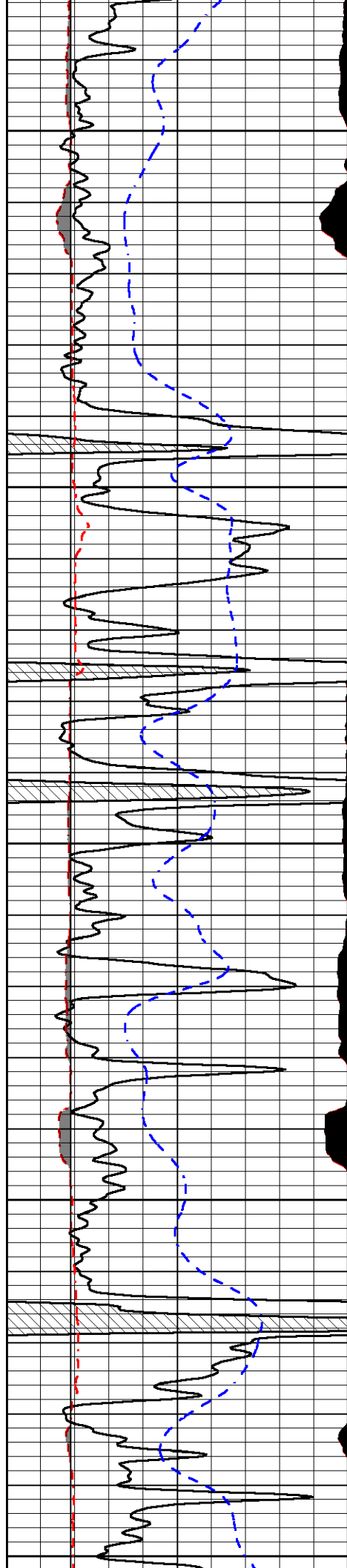
4200

4250

4300

4350





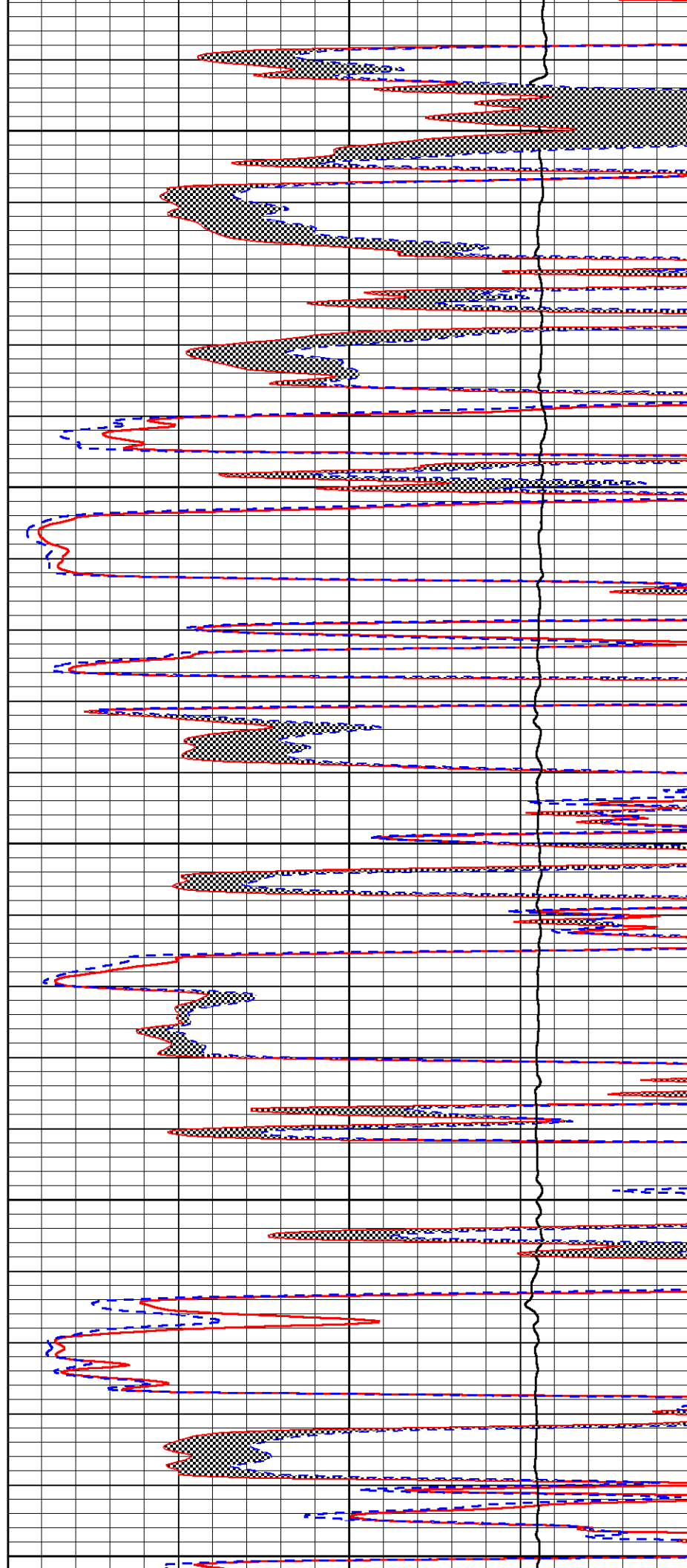
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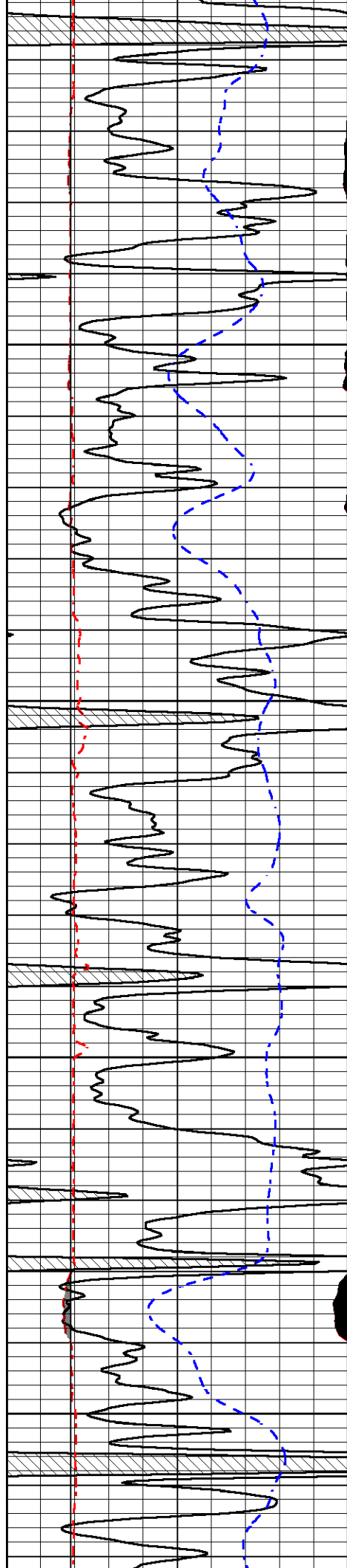
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4500

4550

4600



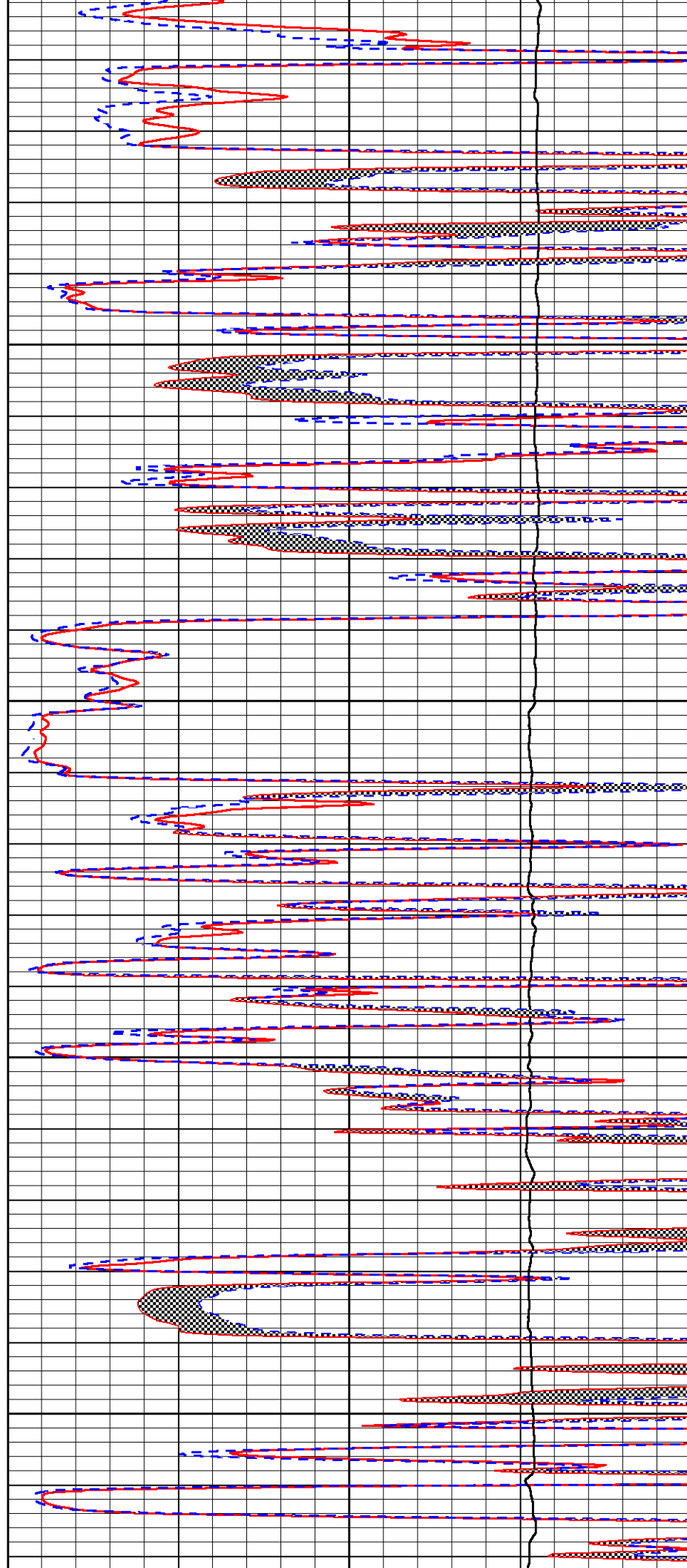


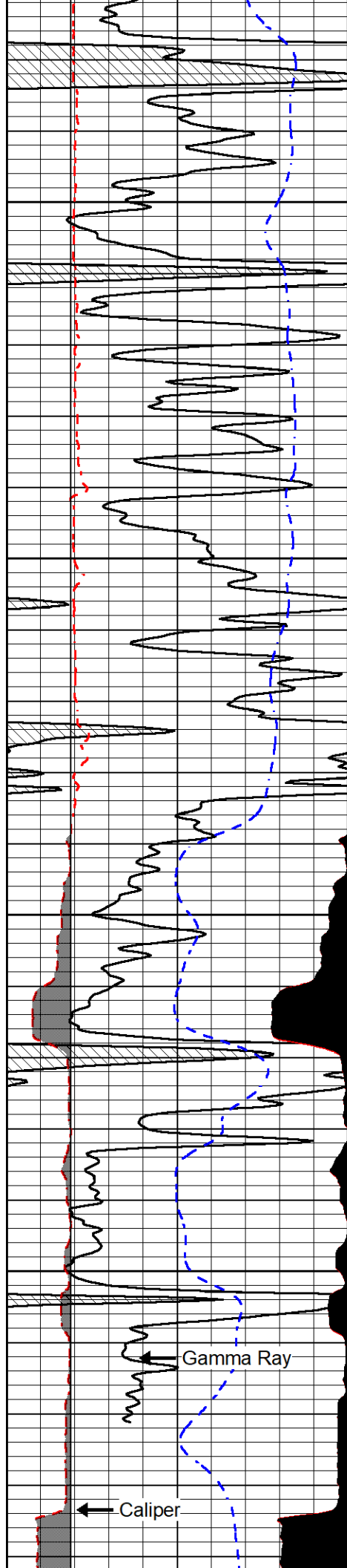
4650

4700

4750

4800





4850

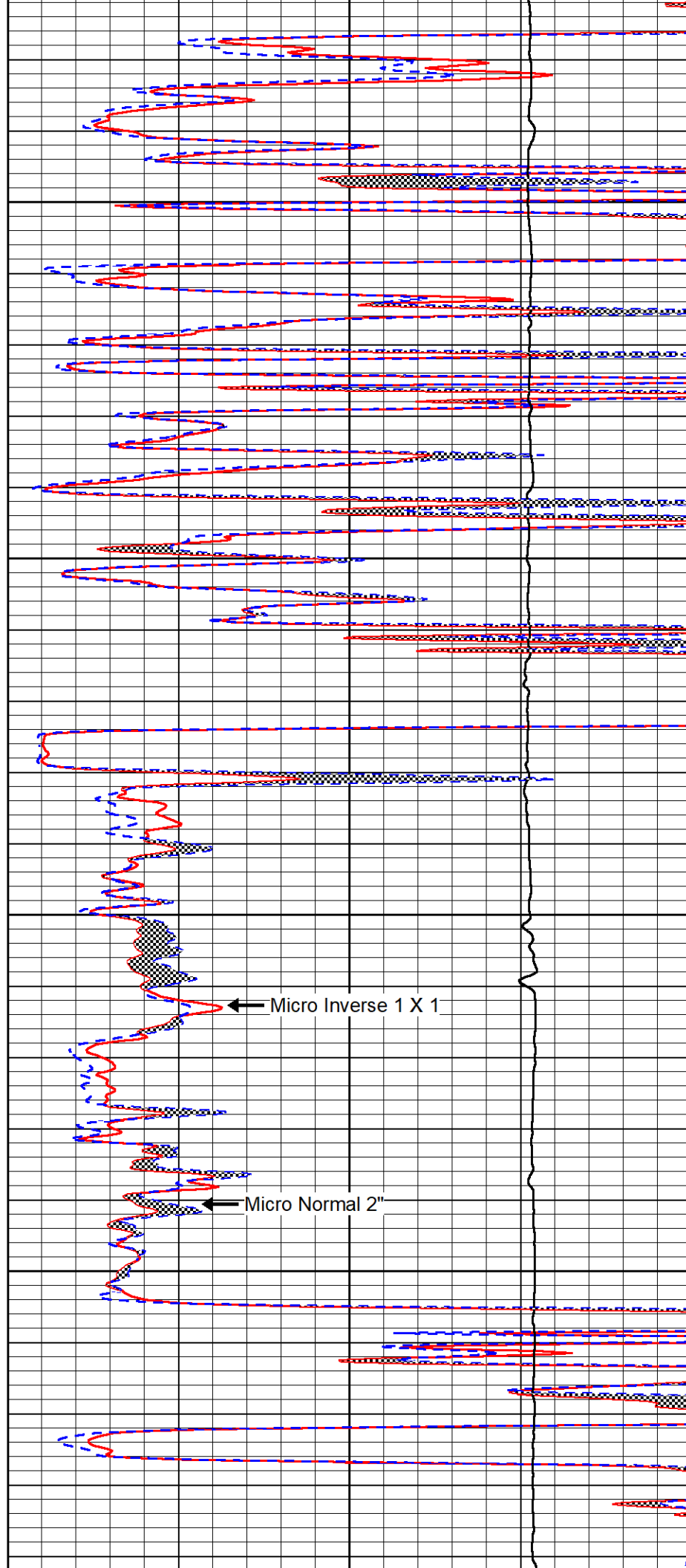
4900

4950

5000

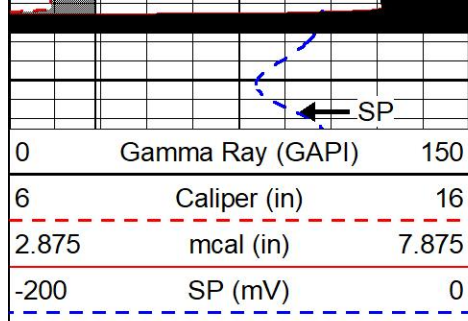
Gamma Ray

Caliper

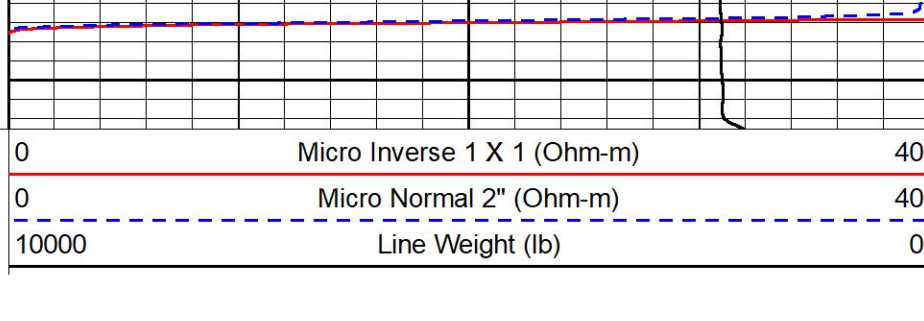


Micro Inverse 1 X 1

Micro Normal 2"



5050

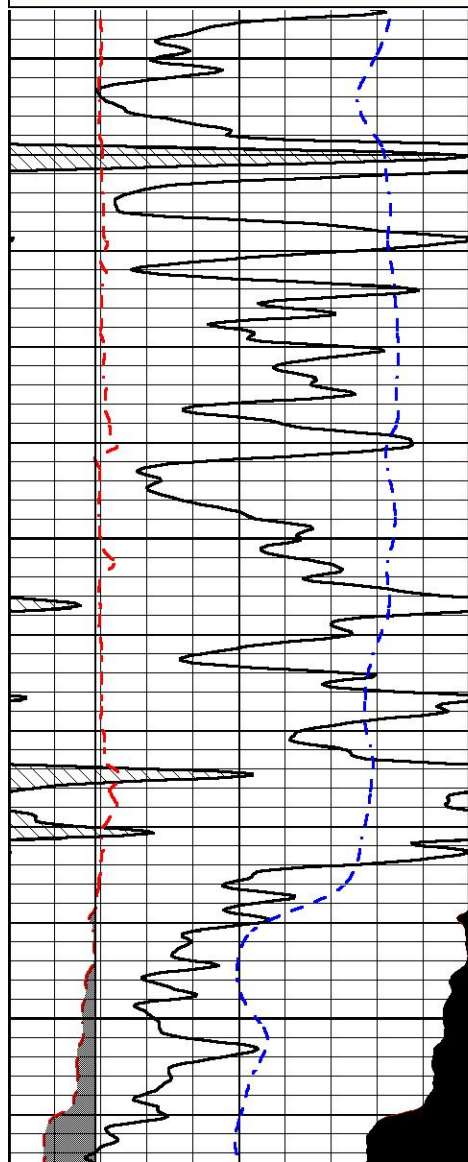
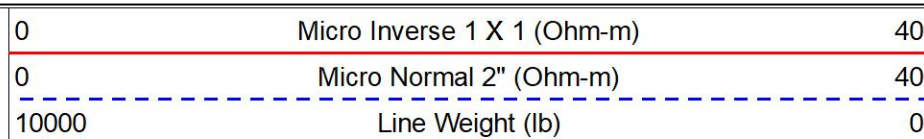
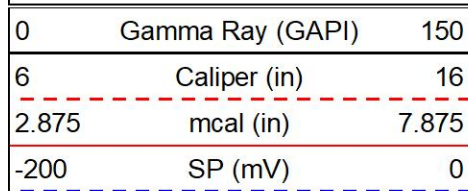


MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

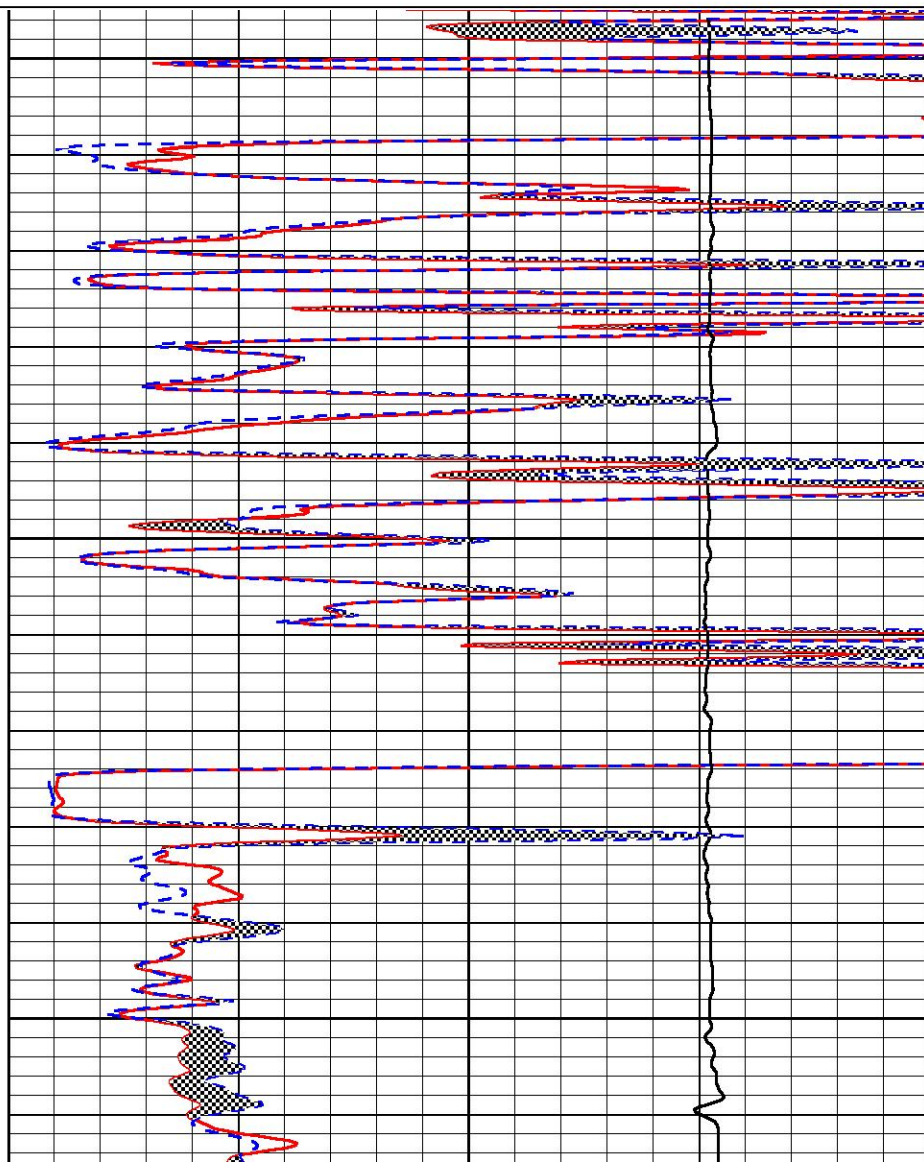
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 Dataset Pathname: stackml/pass2.1
 Presentation Format: _micro
 Dataset Creation: Fri Feb 25 11:57:06 2022
 Charted by: Depth in Feet scaled 1:240

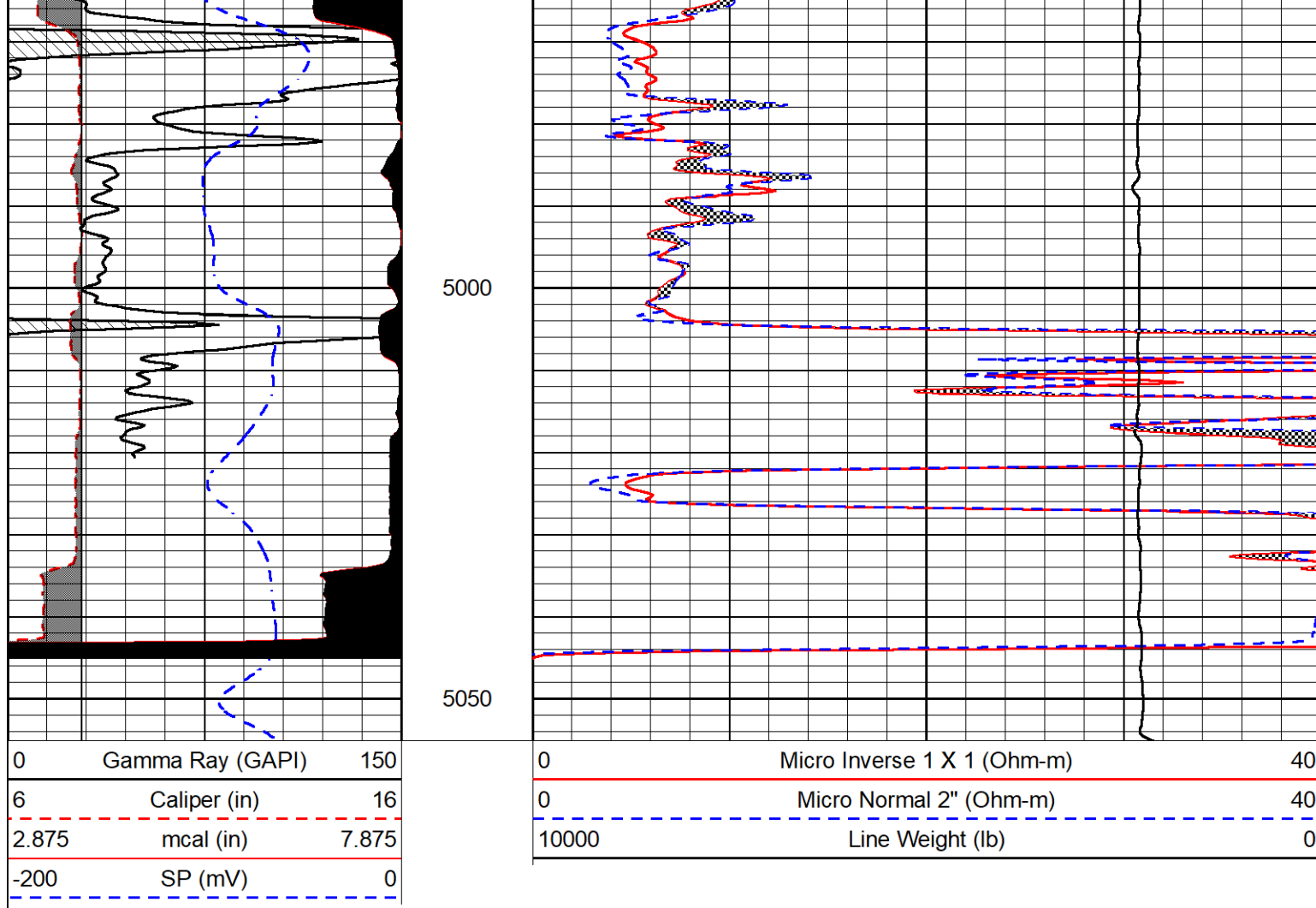


4850

4900

4950





Calibration Report							
Database File	ritchie_schneweis_ventures_13a_1.db						
Dataset Pathname	stackml/pass5.1						
Dataset Creation	Fri Feb 25 12:32:40 2022						
Dual Induction Calibration Report							
Serial-Model:		504 HT-M&W					
Surface Cal Performed:		Thu Dec 16 22:32:49 2021					
Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
	Deep	178.615	710.235	0.000	255.800	mmho/m	0.650
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-45.500
Microlog Calibration Report							
Serial-Model:		402-PSI STKBL ML					
Performed:		Thu Dec 16 22:29:48 2021					
	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
	Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	15000.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	14000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1520	-131.2000

Compensated Density Calibration Report

Serial-Model:	303-03-M&W
Source #:	21170B
Master Calibration Performed:	Thu Dec 16 23:28:34 2021

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3841.78	5151.73	cps
Aluminum	2.670	g/cc	700.98	3068.49	cps
Spine Angle = 73.06			Density/Spine Ratio = 0.515		
	Size		Reading		
Small Ring	4.00	in	1.17		
Large Ring	14.00	in	1.05		

Compensated Neutron Calibration Report

Serial-Model:	210-M&W
Source #:	N-1238
Master Calibration Performed:	Fri Dec 3 09:16:24 2021

Master Calibration

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:	103	
Tool Model:	M&W	
Performed:	Fri Dec 3 12:13:24 2021	
Calibrator Value:	500.0	GAPI
Background Reading:	28.0	cps
Calibrator Reading:	986.0	cps
Sensitivity:	0.5700	GAPI/cps



Company	Ritchie Exploration, Inc.
Well	Schneweis Ventures 13A #1
Field	Thunder
County	Ford
State	Kansas