



PIONEER
Pioneer Energy Services

MICRORESISTIVITY LOG

Company AMERICAN WARRIOR, INC.
Well YOUNG NO. 1-12
Field WILDCAT
County GREELEY
State KANSAS

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Location: API #: 15-071-20887-00-00

Other Services

SEC 12 TWP 16S RGE 42W
2299' FSL & 335' FWL

CNL/CDL
DIL

Permanent Datum GROUND LEVEL Elevation 3790'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 3801'
D.F. N/A
G.L. 3790'

Date	9/25/2018		
Run Number	ONE		
Depth Driller	5200'		
Depth Logger	5197'		
Bottom Logged Interval	5196'		
Top Log Interval	3800'		
Casing Driller	8.625" @ 436'		
Casing Logger	436'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	3800		
Density / Viscosity	9.3 55		
pH / Fluid Loss	11.0 8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.68 @ 71		
Rmt @ Meas. Temp	.51 @ 71		
Rmc @ Meas. Temp	.92 @ 71		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.38 @ 128		
Operating Rig Time	2 HOURS		
Max Rec. Temp. F	128 DEGF		
Equipment Number	108		
Location	HAYS		
Recorded By	J. HENRICKSON		
Witnessed By	LUKE THOMPSON		

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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.

SHARON SPRINGS KANSAS
WEST TO ROAD 9, SOUTH TO COUNTY LINE
3/4 WEST, 1 1/2 SOUTH, EAST INTO

Log Measured From: KELLY BUSHING 11 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: LUKE THOMPSON
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

Database C:\ProgramData\Warrior\Data\american_warrior_young_1_12.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
0	0	0	0	0	0	0	0
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	0	0	Off	0

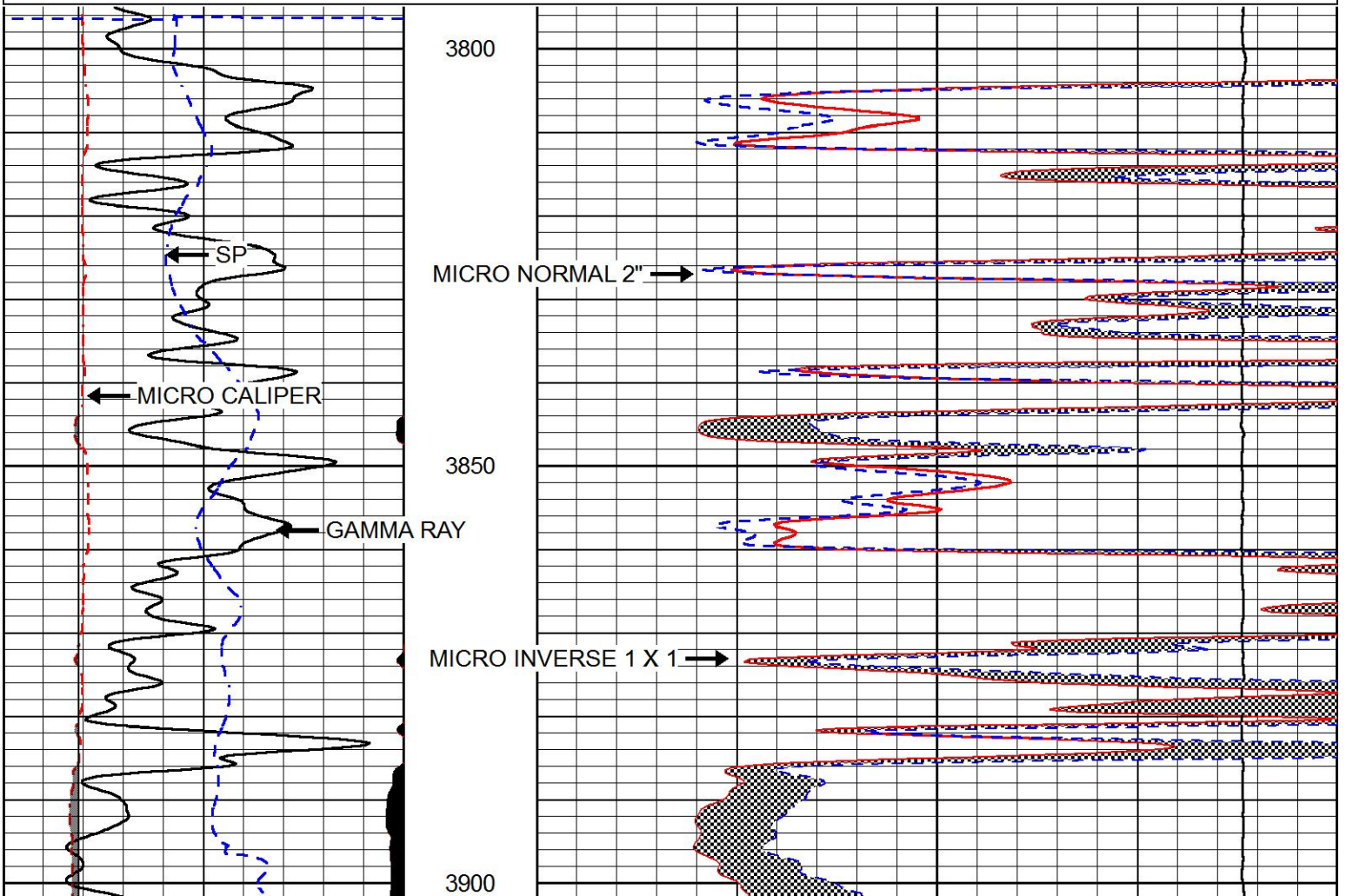


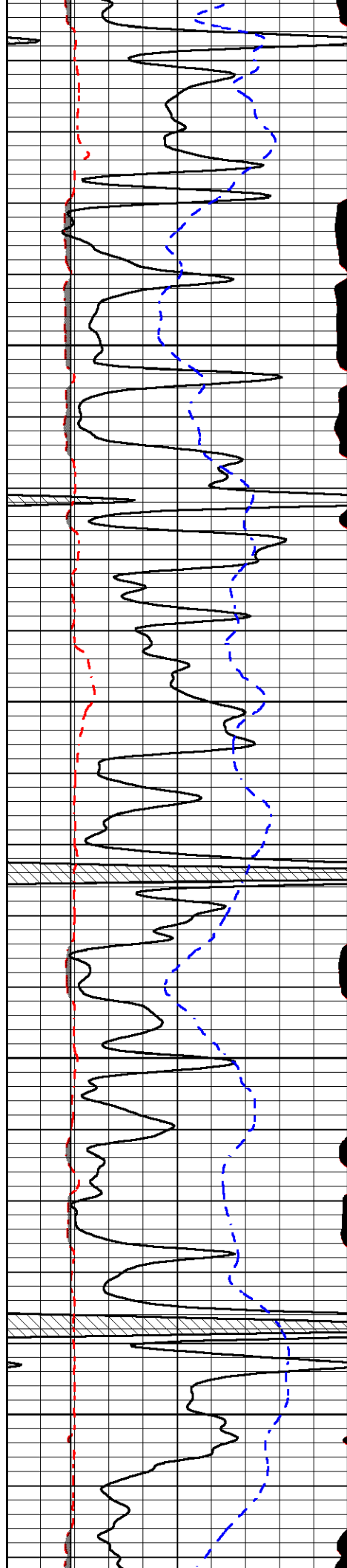
MAIN PASS

Database File american_warrior_young_1_12.db
Dataset Pathname stackml/pass4.1
Presentation Format micro
Dataset Creation Tue Sep 25 14:02:45 2018
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



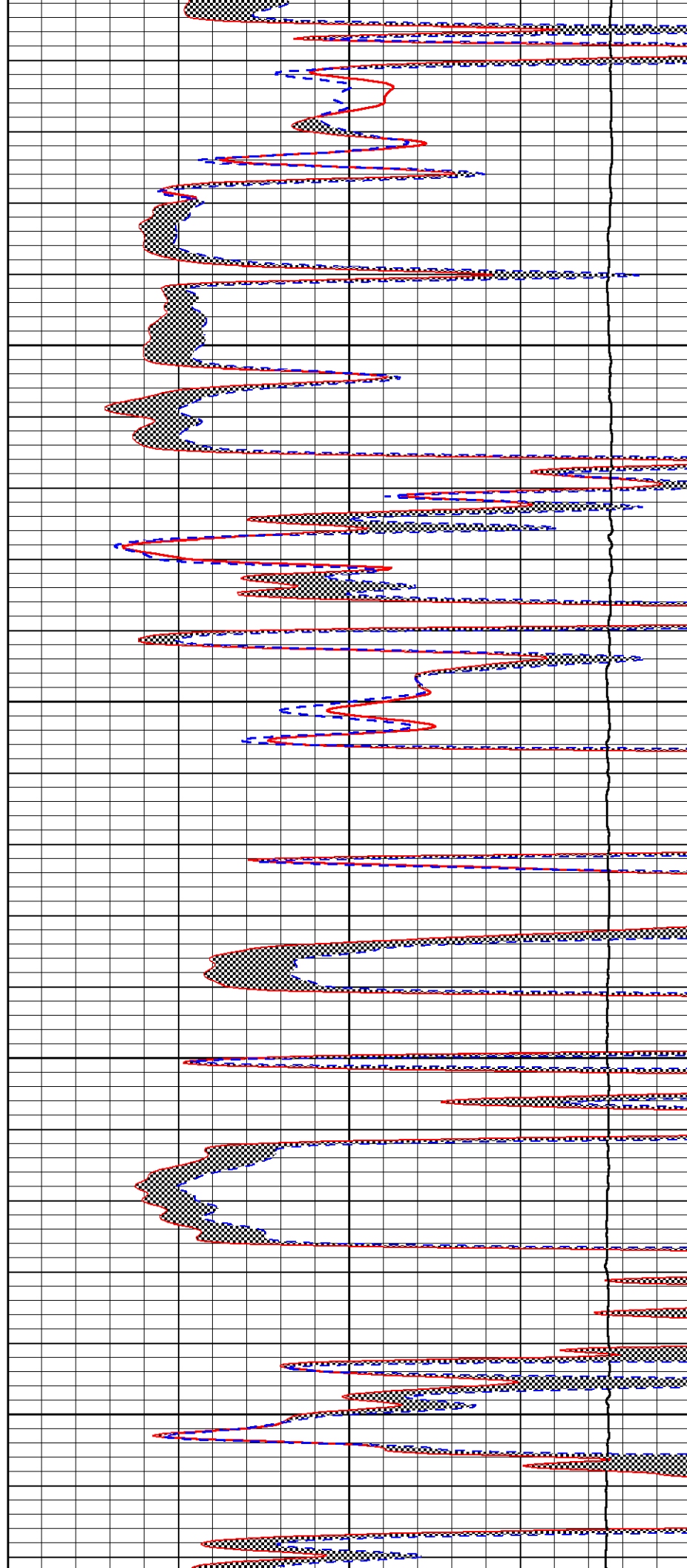


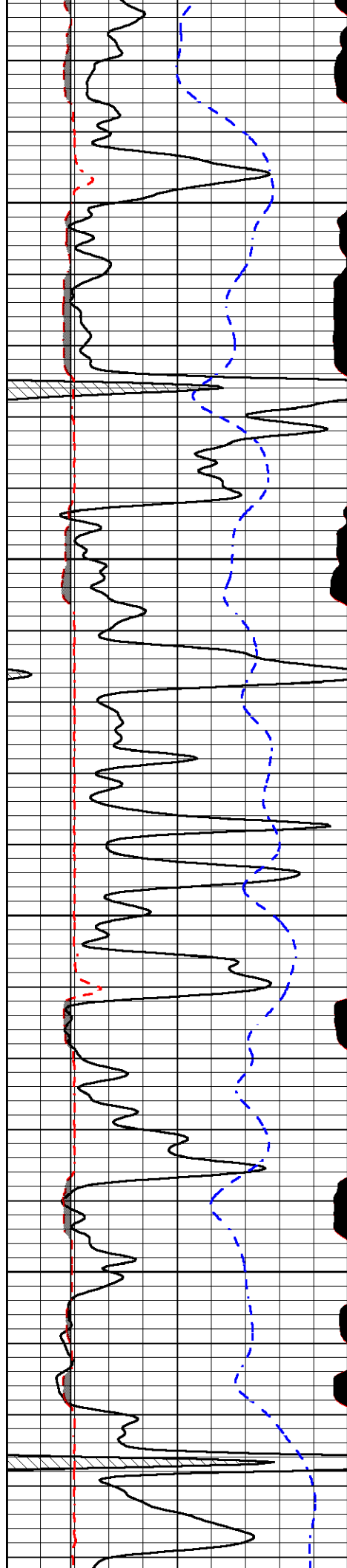
3950

4000

4050

4100



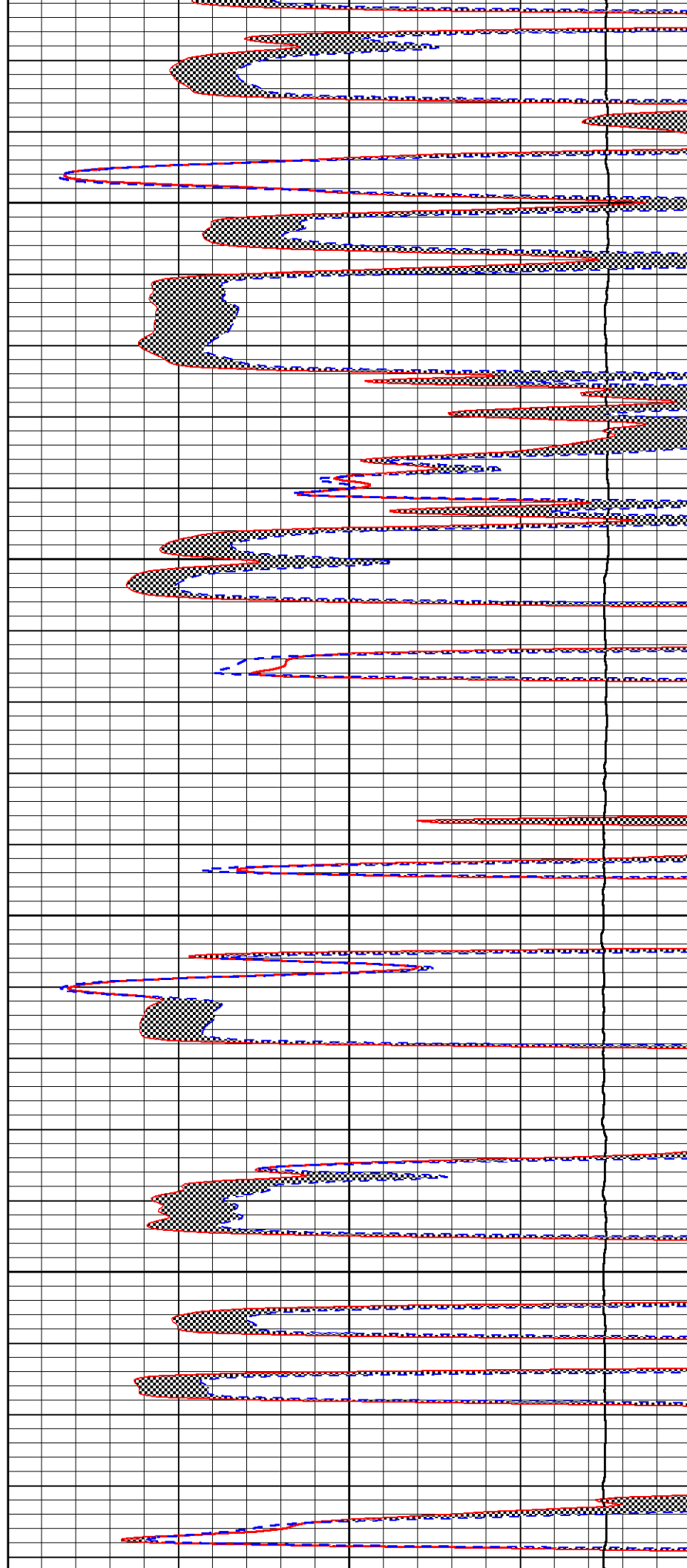


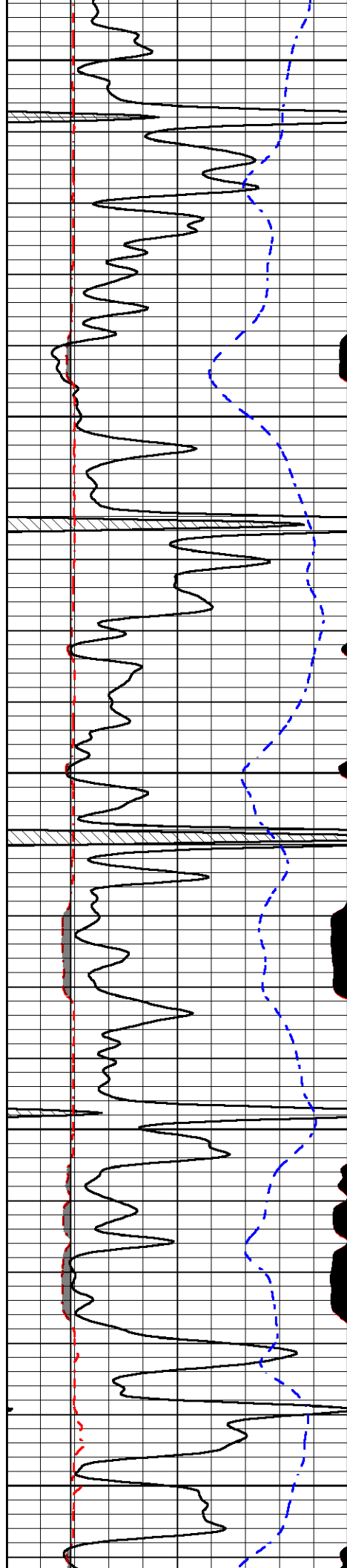
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4200

4250

4300





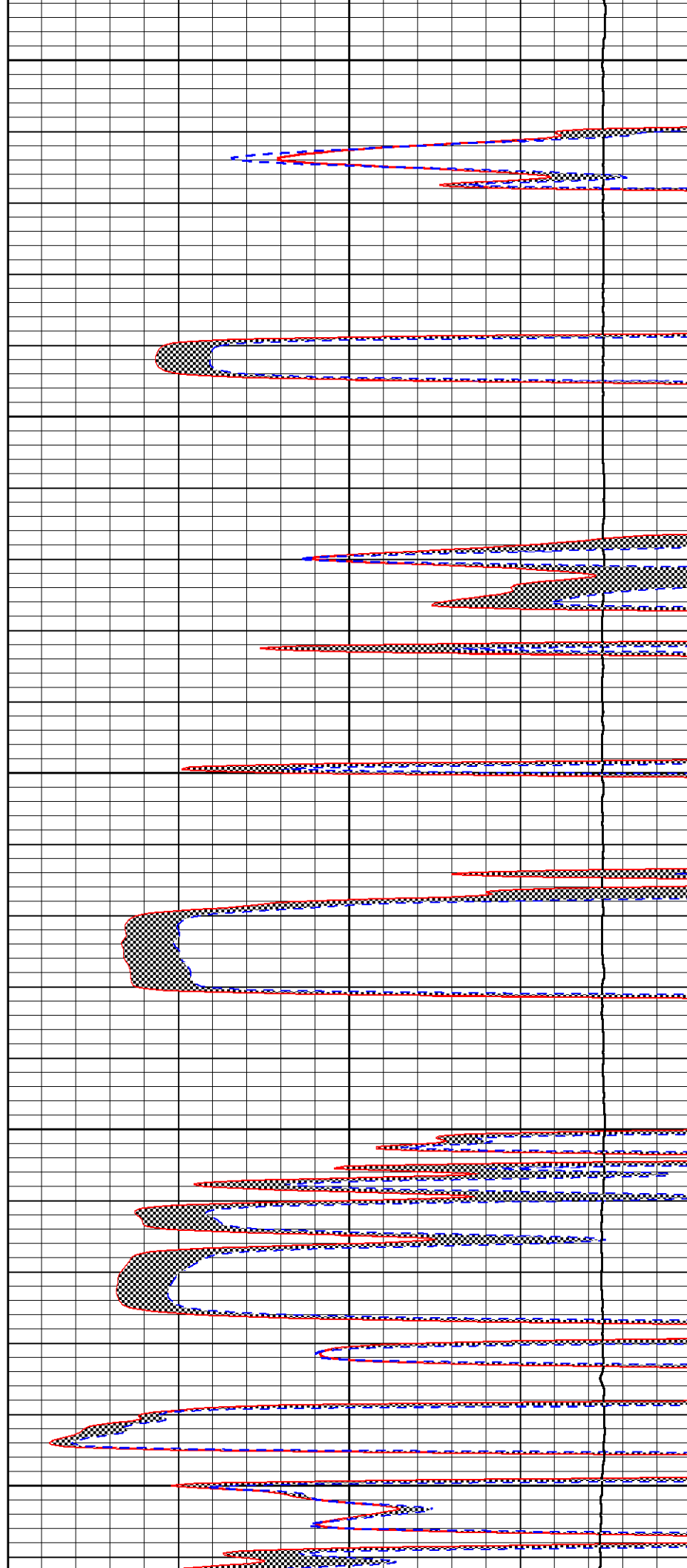
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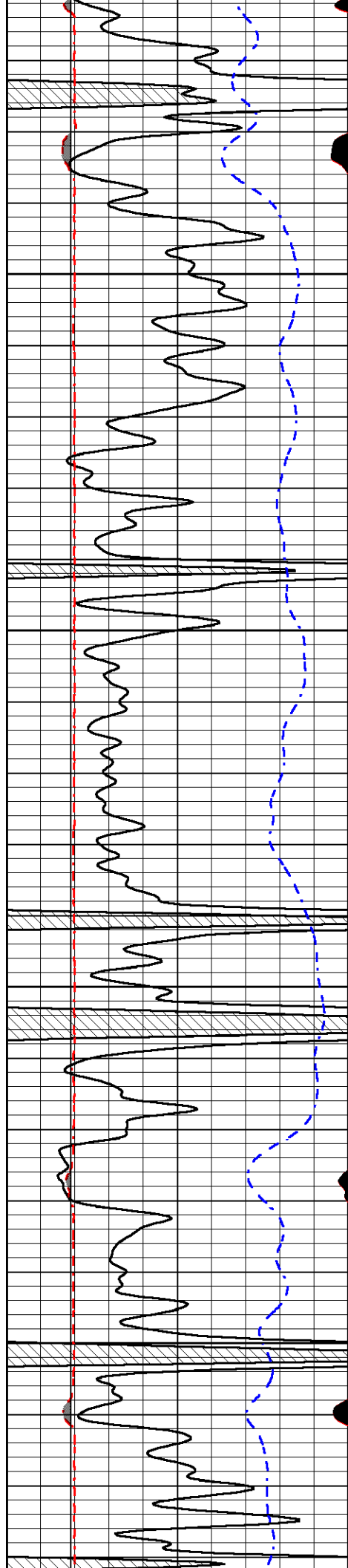
4400

4450

4500

4550



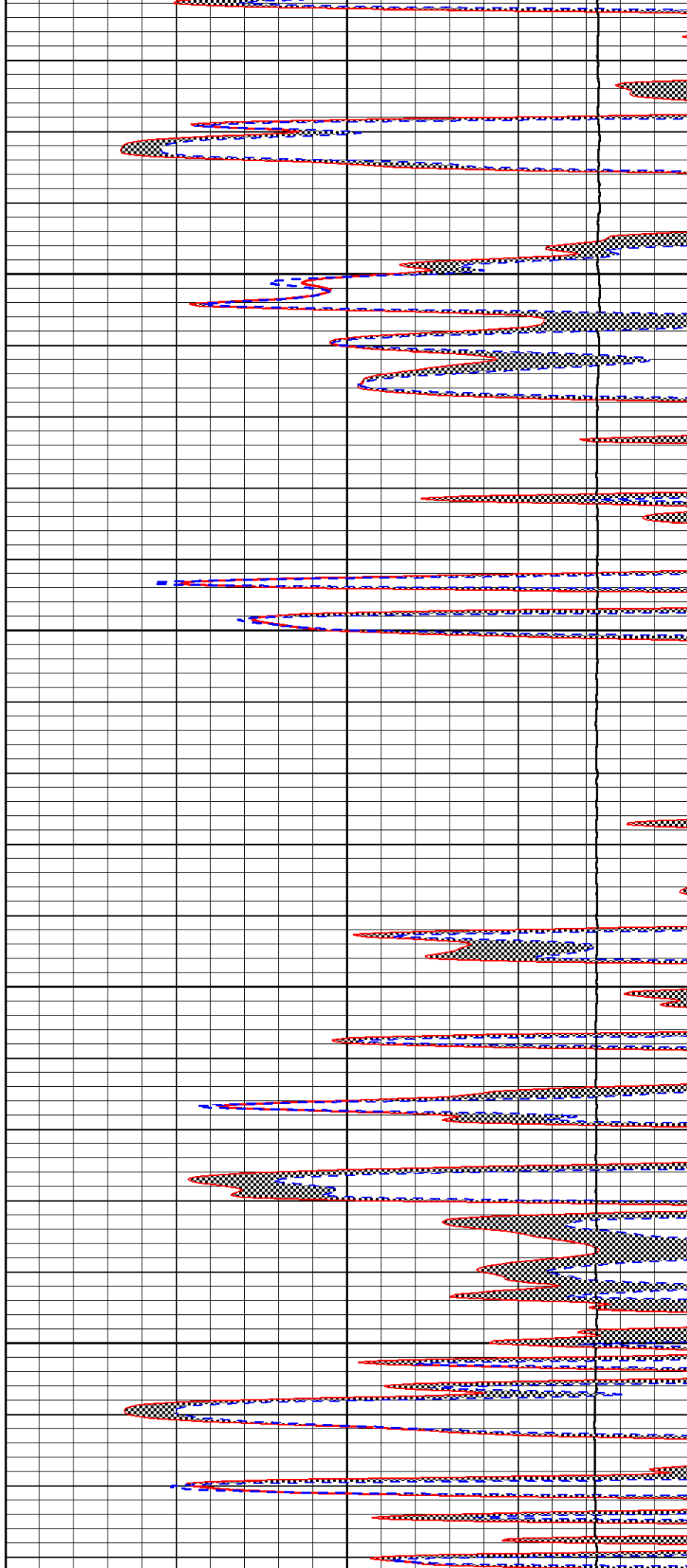


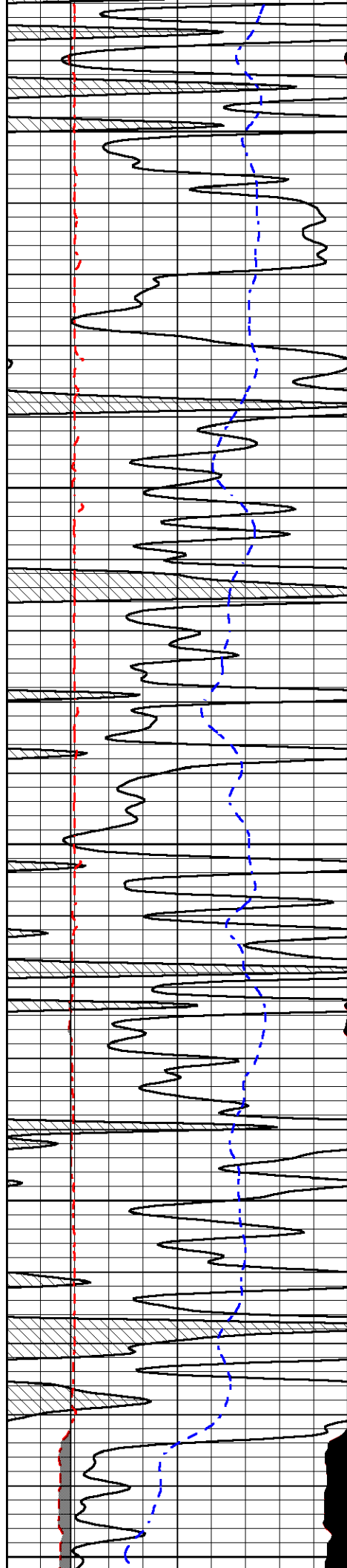
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4650

4700

4750





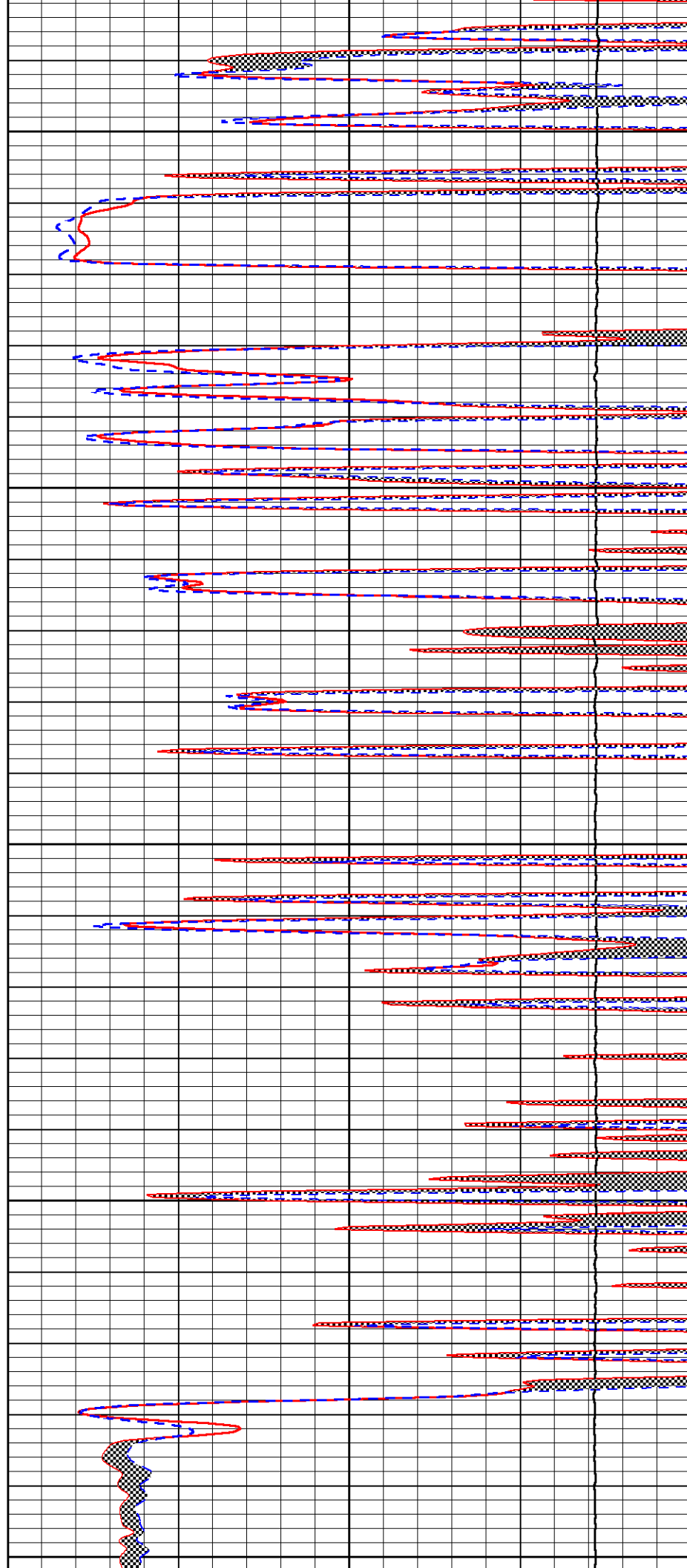
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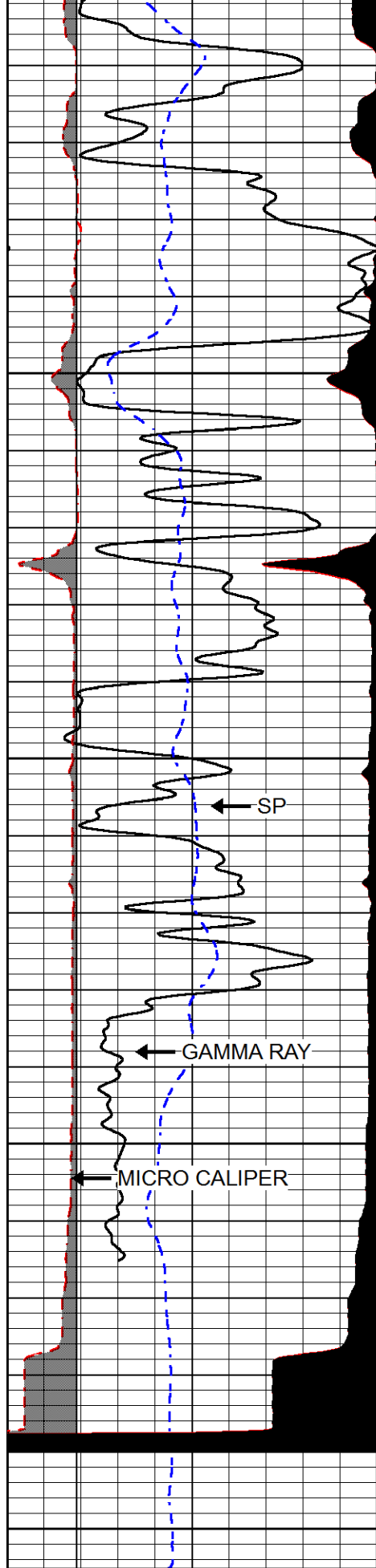
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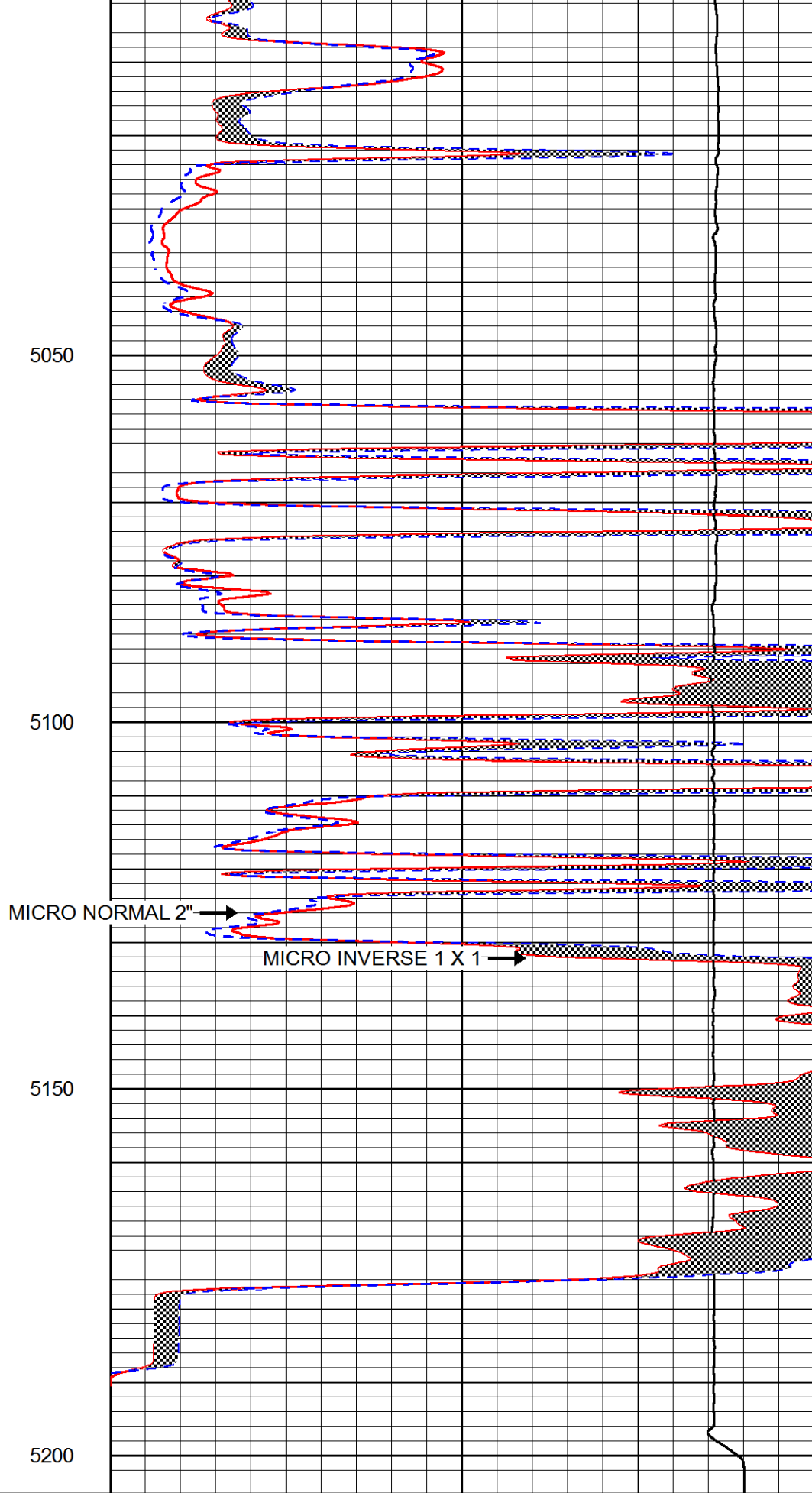
4950

5000





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

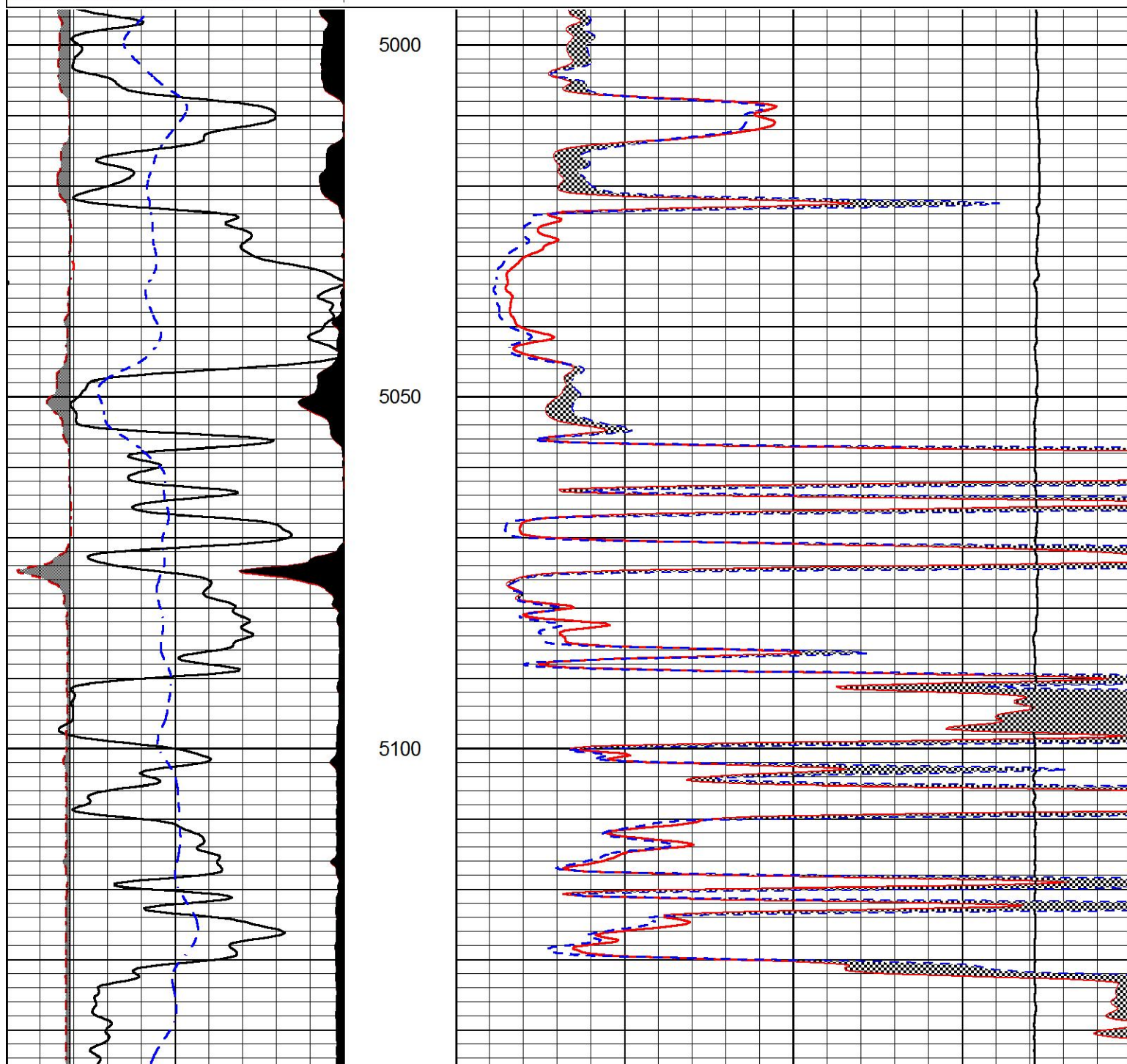


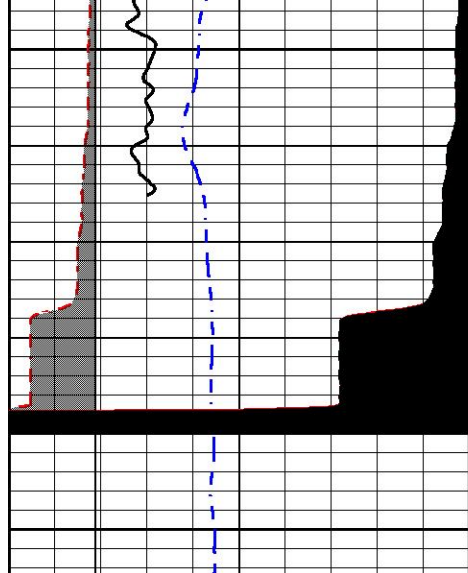
REPEAT SECTION

Database File american_warrior_young_1_12.db
Dataset Pathname stackml/pass2.1
Presentation Format micro
Dataset Creation Tue Sep 25 14:08:52 2018
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

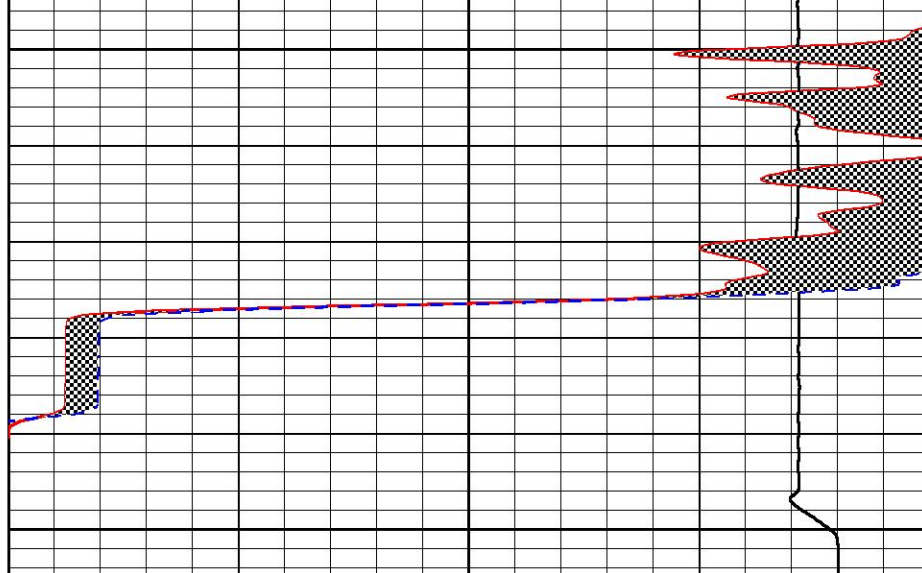




5150

5200

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



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