



MICRORESISTIVITY LOG

PIONEER
Pioneer Energy Services

Company VAL ENERGY, INC.
Well WILSON #1-3
Field UNKNOWN
County THOMAS State KANSAS

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Well WILSON #1-3
Field UNKNOWN
County THOMAS
State KANSAS

Location: API #: 15-193-21003-00-00
1838' FSL & 472' FWL
SEC 3 TWP 8S RGE 36W
Permanent Datum GROUND LEVEL Elevation 3330'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING
Other Services
CNL/CDL
DIL
Elevation
K.B. 3335'
D.F. N/A
G.L. 3330'

Date	10/22/2017		
Run Number	ONE		
Depth Driller	4900'		
Depth Logger	4902'		
Bottom Logged Interval	4901'		
Top Log Interval	3800'		
Casing Driller	8.625" @ 26'		
Casing Logger	26'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	6500		
Density / Viscosity	9.2 52		
pH / Fluid Loss	9.0 10.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.50 @ 80		
Rmt @ Meas. Temp	0.38 @ 80		
Rmc @ Meas. Temp	0.68 @ 80		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	0.32 @ 125		
Operating Rig Time	3 HOURS		
Max Rec. Temp. F	125		
Equipment Number	91		
Location	HAYS		
Recorded By	D. SCHMIDT		
Witnessed By	TIM PRIEST		

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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.

BREWSTER,
2 EAST ON OLD HWY 24 TO 4 RD, 1 1/2 NORTH,
EAST INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

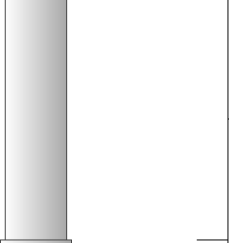
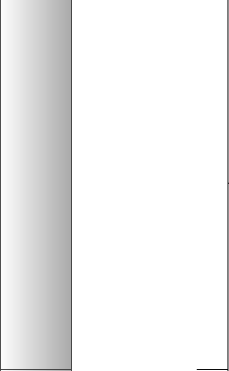
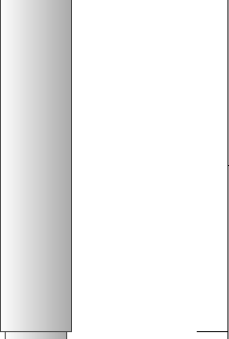
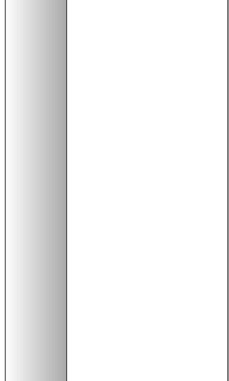
Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: TIM PRIEST
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-75	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	60	0	5.5	0	4902	125	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 (90-1031)	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					

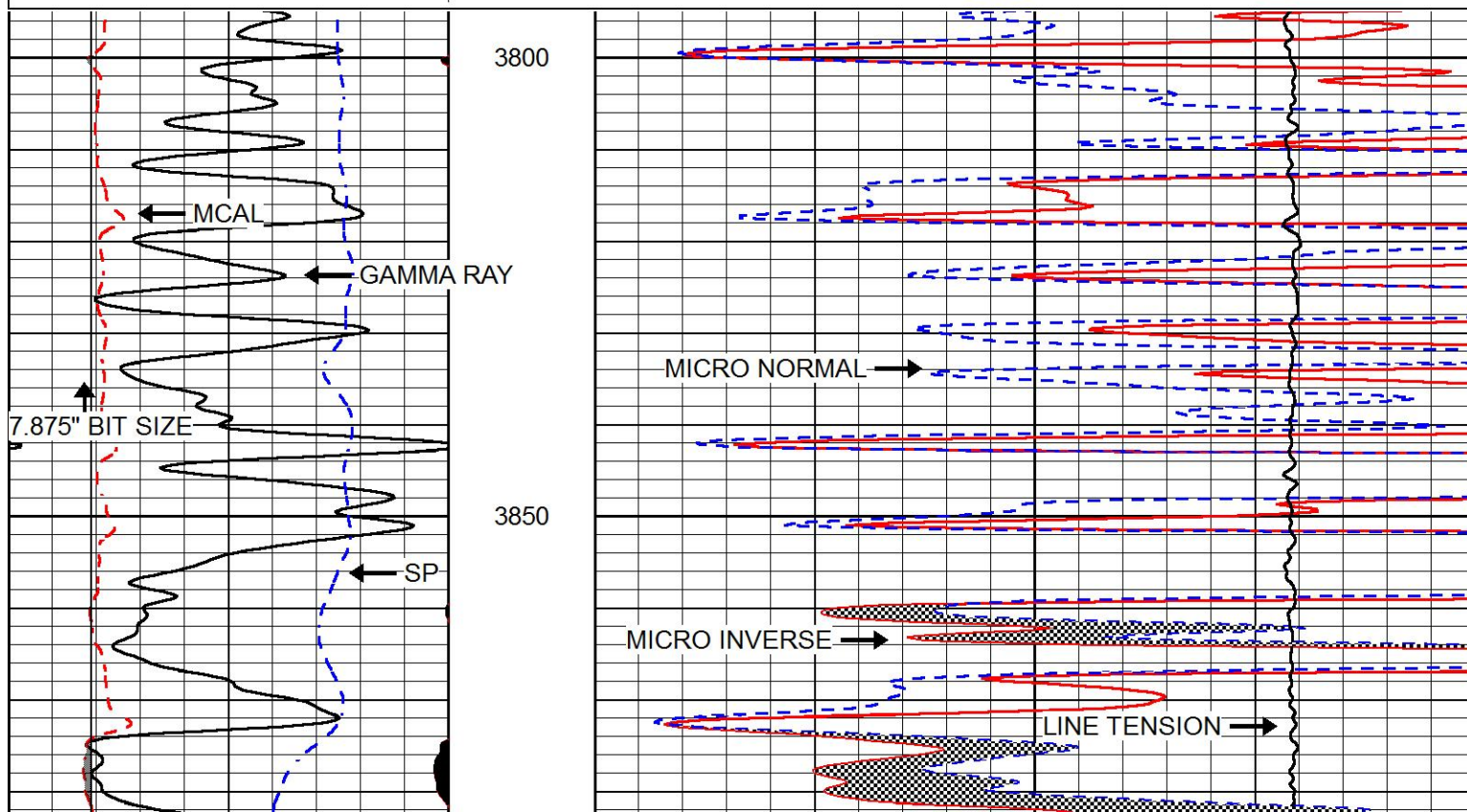
				DIL-M&W (PSI 91)	18.50	3.50	220.00
CILD	8.00						
CILM	4.70						
SP	0.20						
Dataset: val_wilson 1-3.db: field/well/STKML/pass4.1 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in							

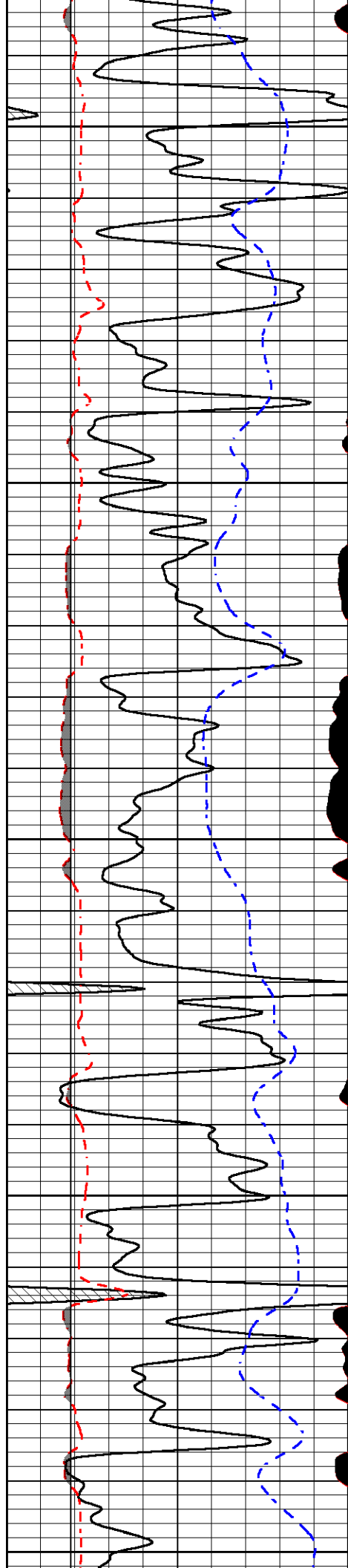


MAIN PASS

Database File	val_wilson 1-3.db
Dataset Pathname	STKML/pass4.1
Presentation Format	micro
Dataset Creation	Sun Oct 22 01:54:45 2017
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0	Micro Inverese 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			





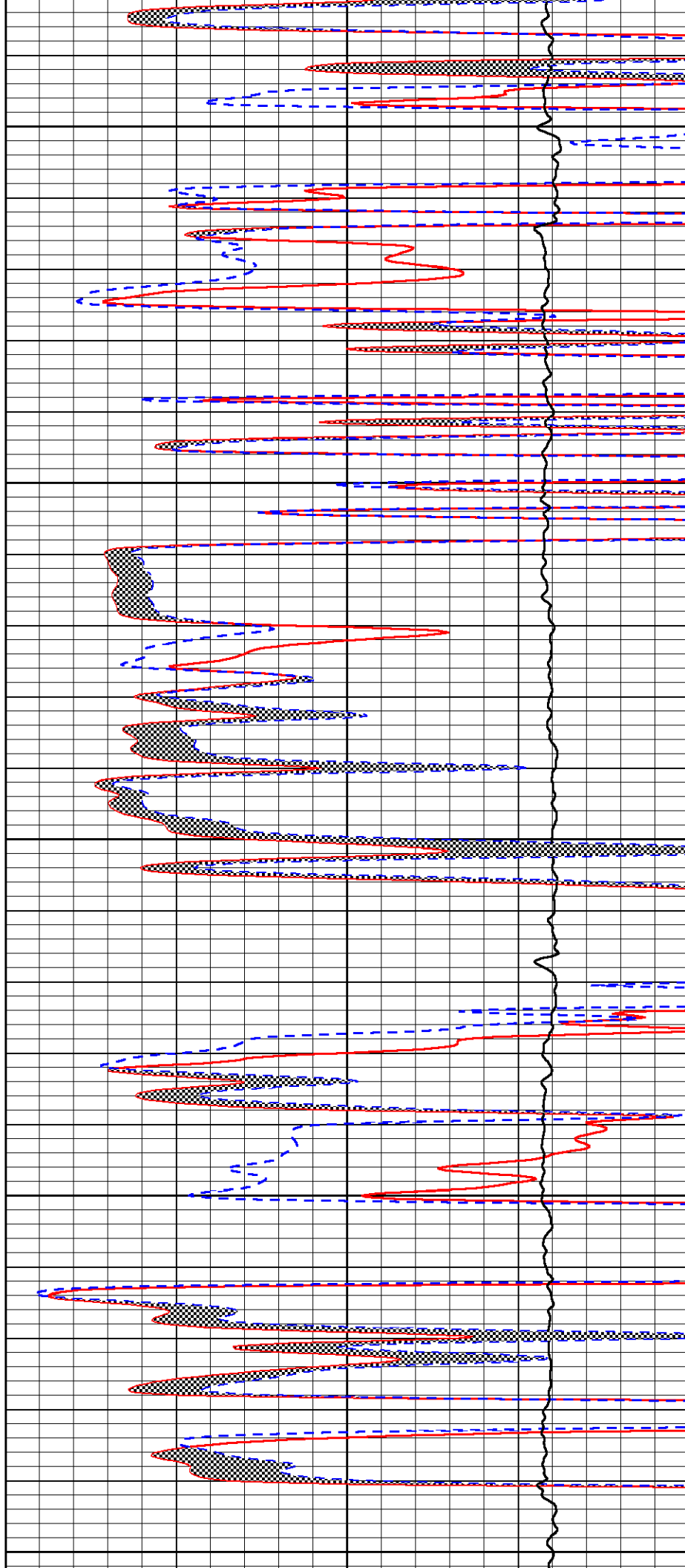
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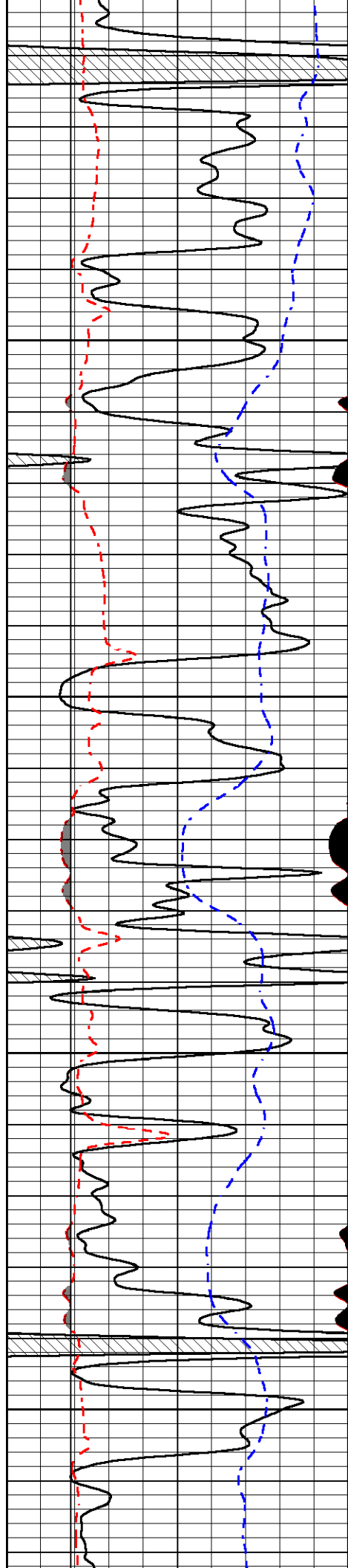
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4000

4050

4100



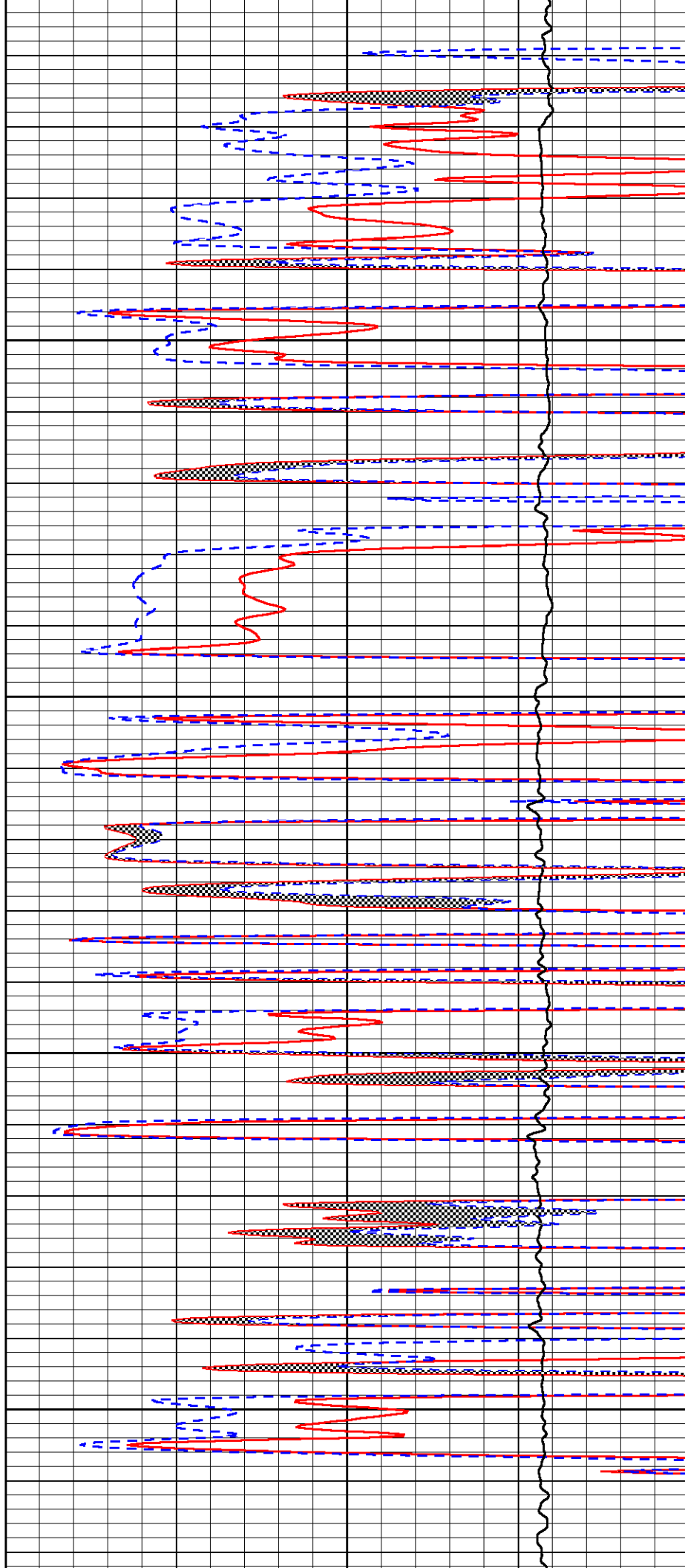


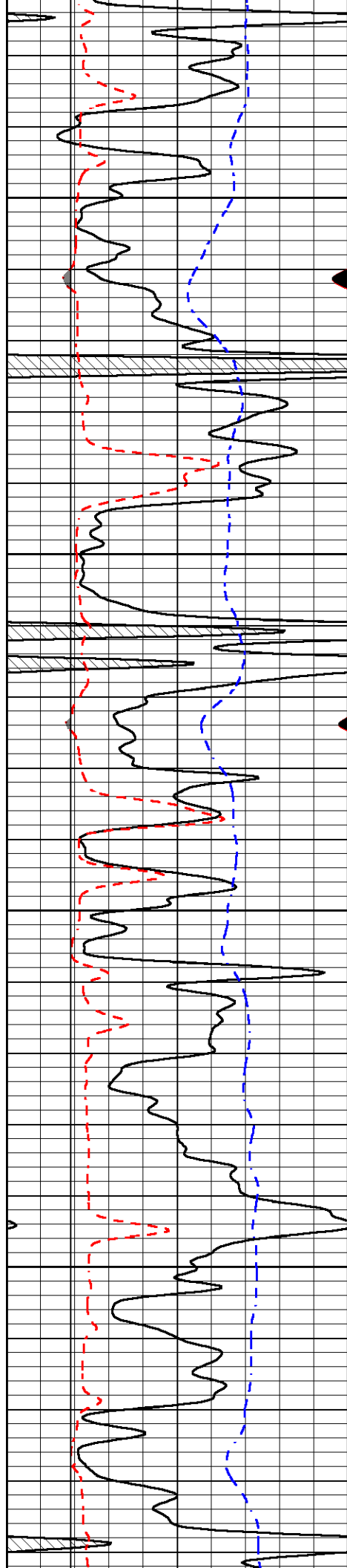
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4200

4250

4300



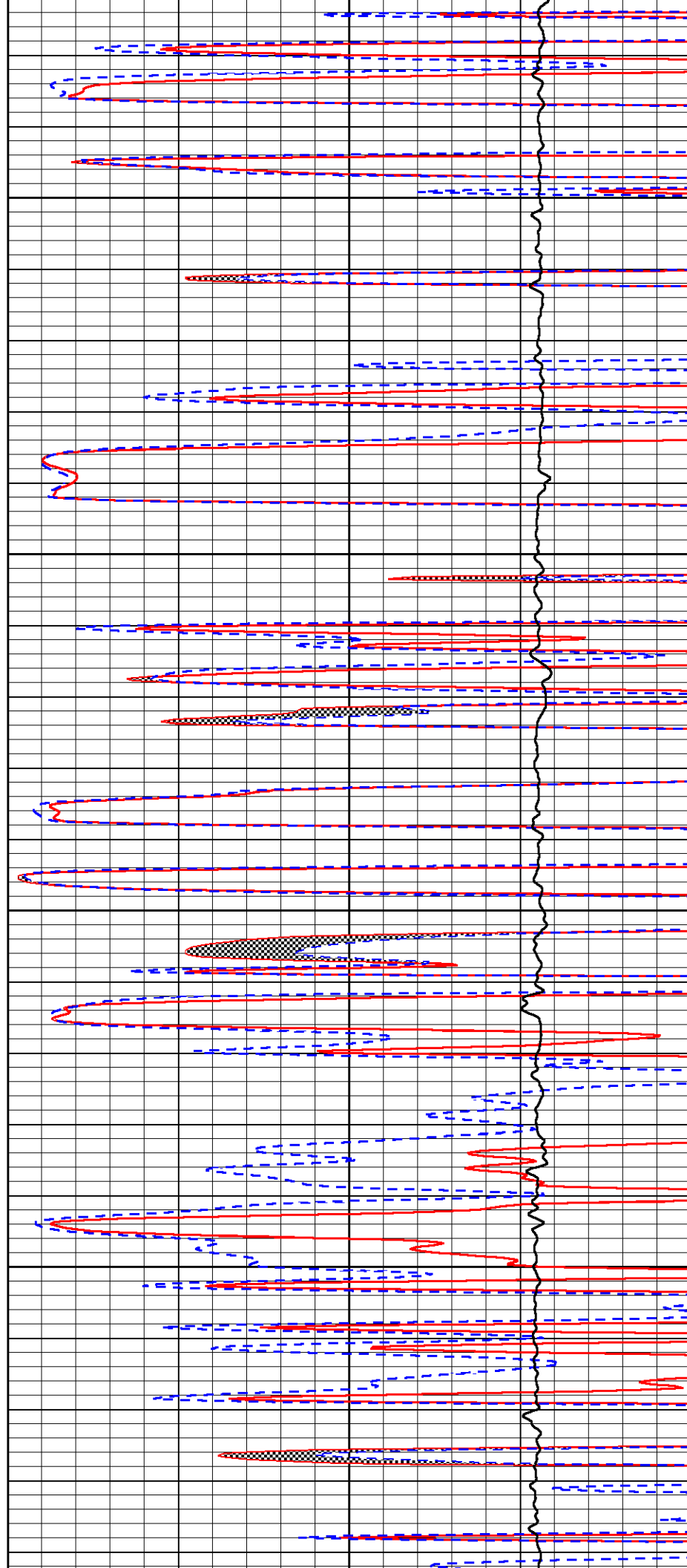


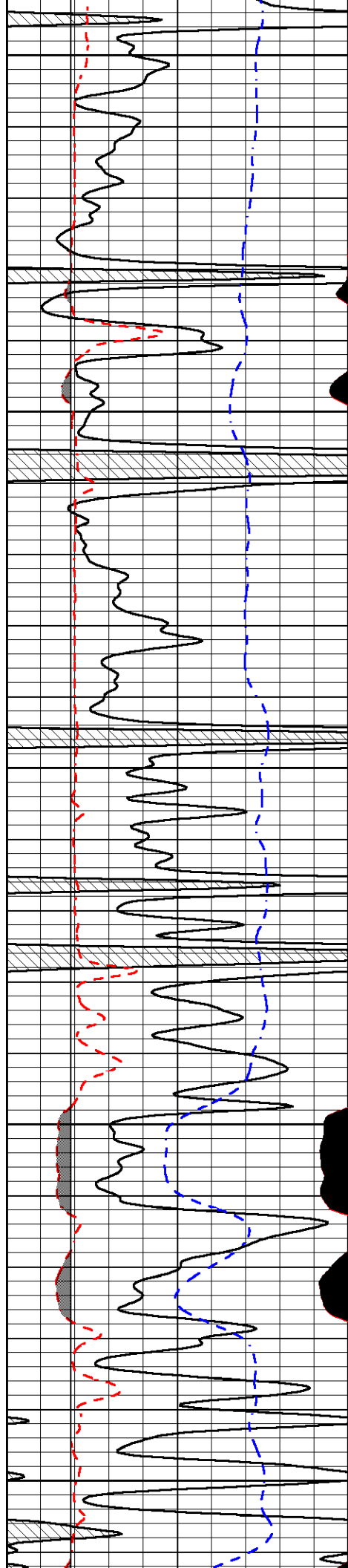
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4400

4450

4500





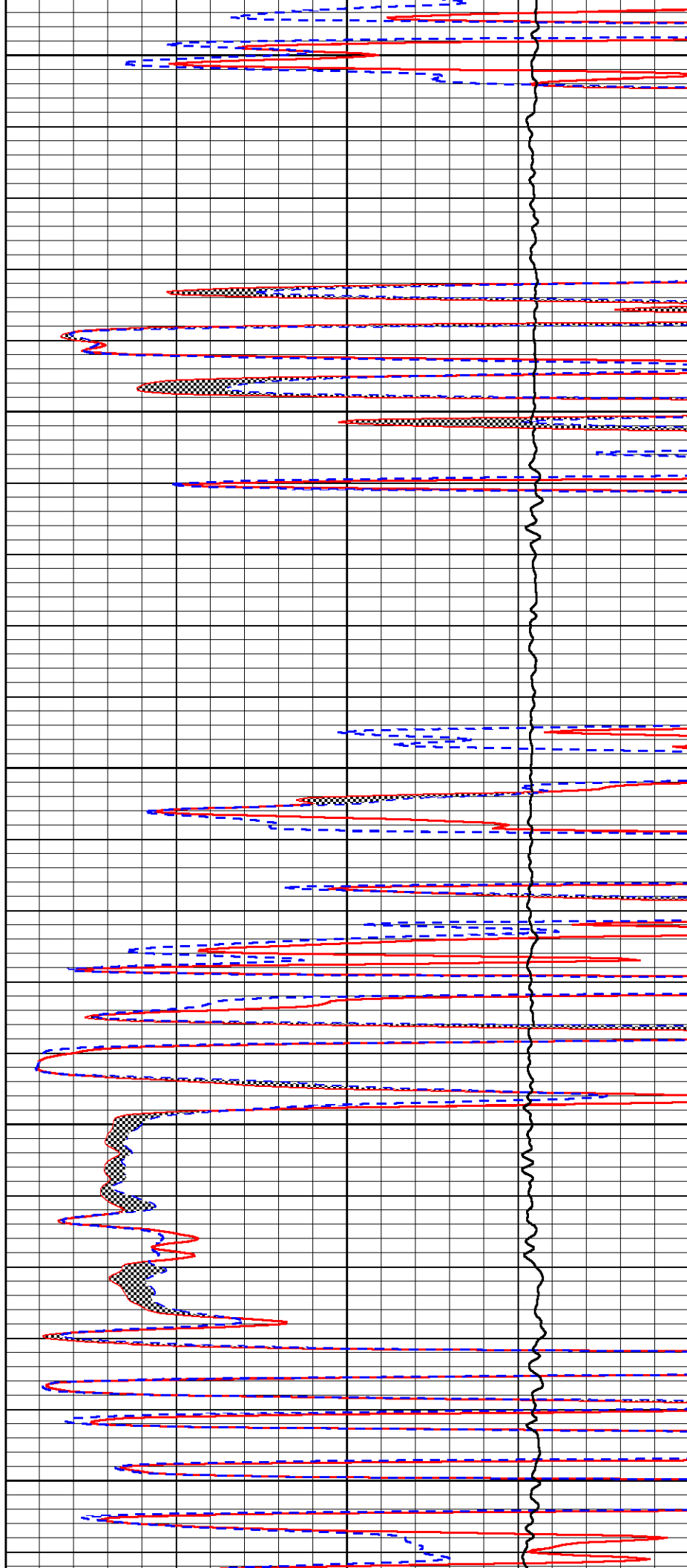
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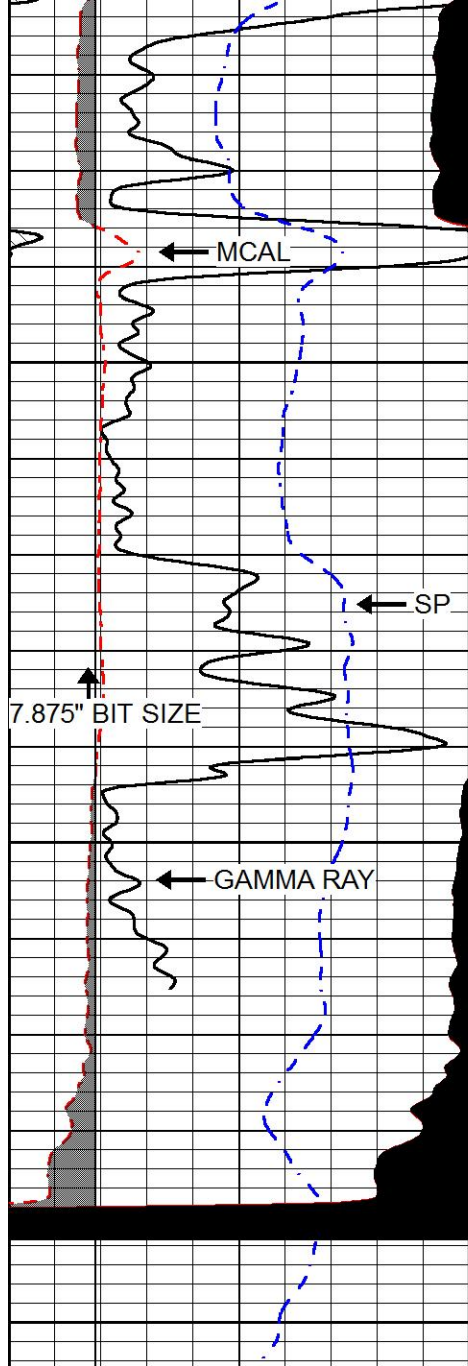
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4650

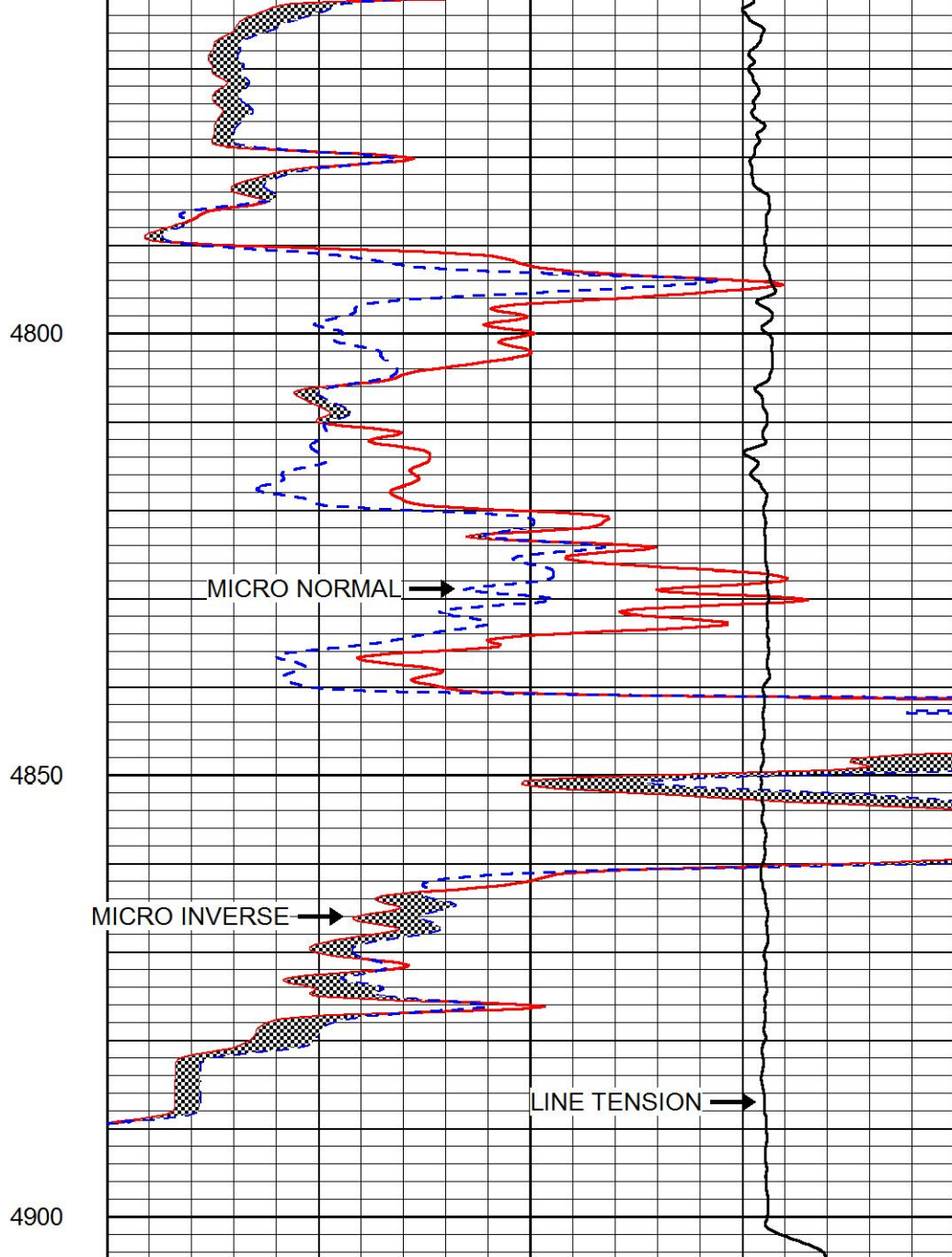
4700

4750





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



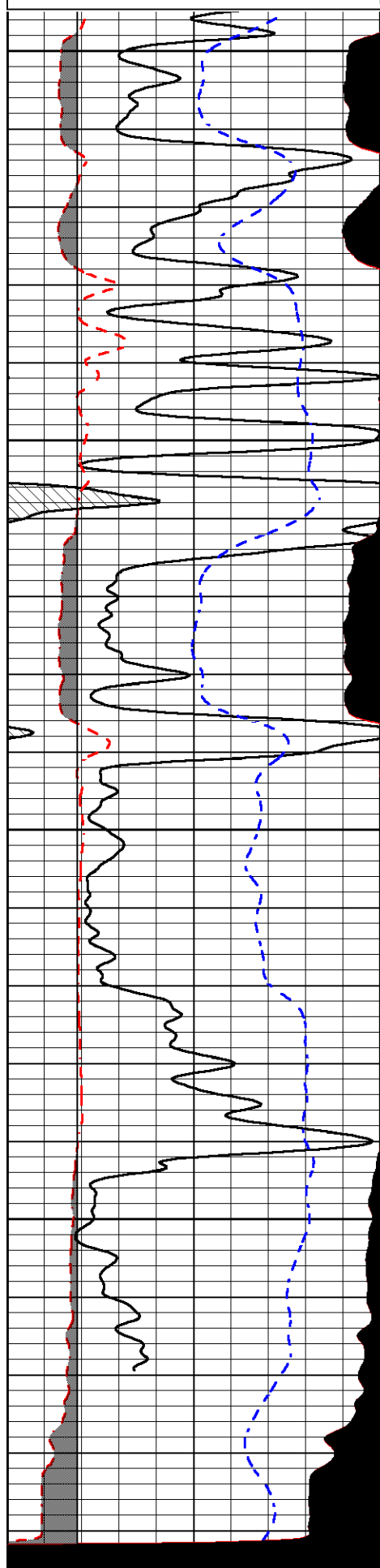
REPEAT SECTION

Database File val_wilson 1-3.db
 Dataset Pathname STKML/pass2.1
 Presentation Format micro
 Dataset Creation Sun Oct 22 01:46:45 2017
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40

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



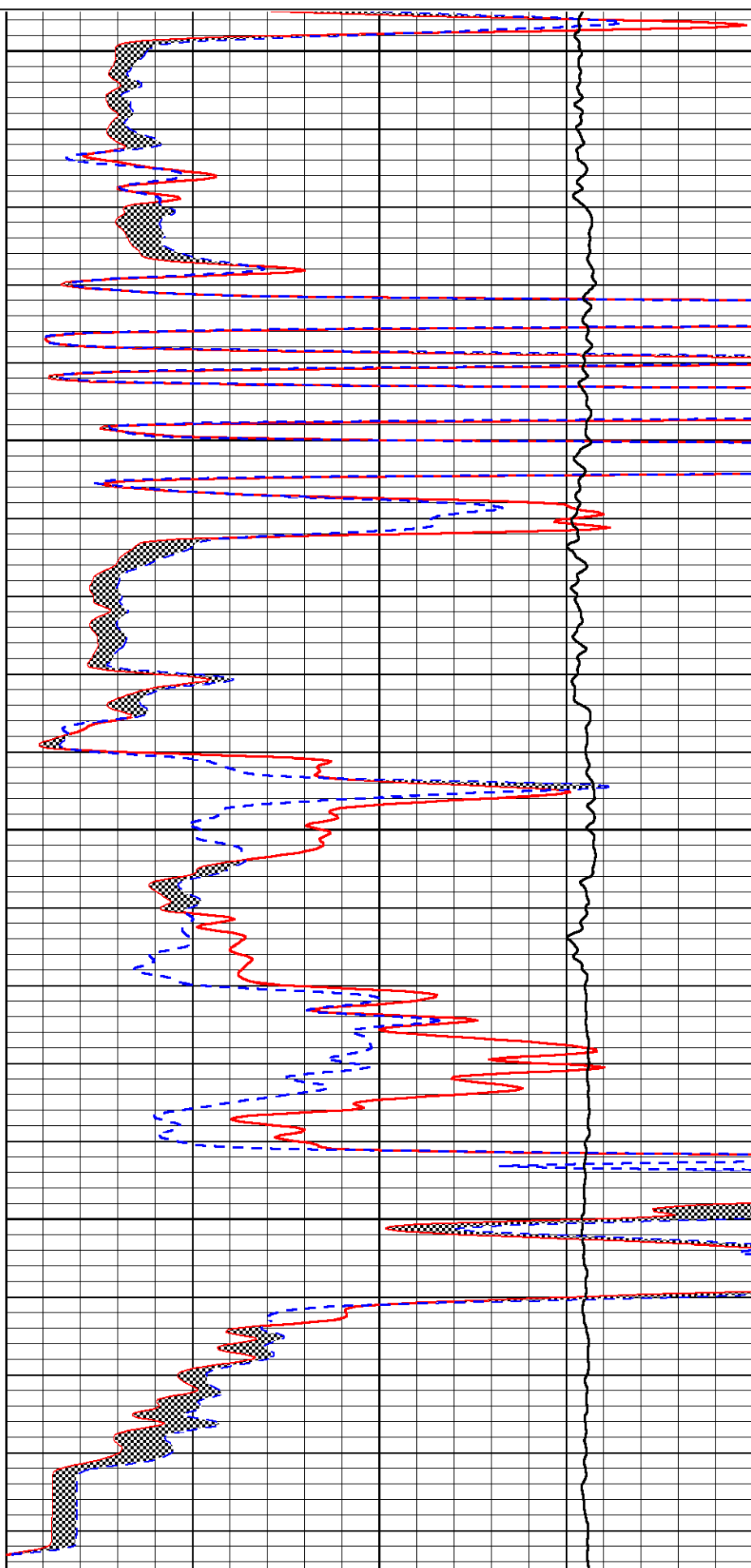
4700

4750

4800

4850

0	Micro Normal 2 nd (Ohm-m)	40
10000	Line Weight (lb)	0



Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W
 Calibration Performed: WED SEP 6 10:30:30 2017

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: Wed Sep 06 19:51:14 2017

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps



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