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MICRORESISTIVITY LOG

Company EVERGLOW ENERGY, LLC
Well WARREN #1-25
Field SHIMER SOUTH
County COMANCHE State KANSAS

Location: API #: 15-033-21783-00-00
1650' FNL & 2310' FWL
SEC 25 TWP 33S RGE 17W

Permanent Datum GROUND LEVEL Elevation 1829'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Other Services
CNL/CDL
DIL

Elevation
K.B. 1834'
D.F. N/A
G.L. 1829'

Company EVERGLOW ENERGY, LLC
Well WARREN #1-25
Field SHIMER SOUTH
County COMANCHE
State KANSAS

Date	2/13/2018			
Run Number	ONE			
Depth Driller	5225'			
Depth Logger	5228'			
Bottom Logged Interval	5227'			
Top Log Interval	3700'			
Casing Driller	8.625" @ 328'			
Casing Logger	320'			
Bit Size	7.875"			
Type Fluid in Hole	CHEMICAL			
Salinity,ppm CL	9000			
Density / Viscosity	9.3	60		
pH / Fluid Loss	10.5	9.2		
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	0.30 @ 50			
Rmf @ Meas. Temp	0.23 @ 50			
Rmc @ Meas. Temp	0.41 @ 50			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	0.12 @ 128			
Operating Rig Time	3 HOURS			
Max Rec. Temp. F	128			
Equipment Number	91			
Location	HAYS			
Recorded By	D. SCHMIDT			
Witnessed By	TOM CASTELLI		DAN PITTMAN	

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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.

COLDWATER,
10 EAST TO 22 RD, 4 SOUTH,
1 EAST, 5 SOUTH, 1 1/4 EAST, 1/2 SOUTH,
EAST INTO

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

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

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: TOM CASTELLI
Operator:	Secondary Witness: DAN PITTMAN
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

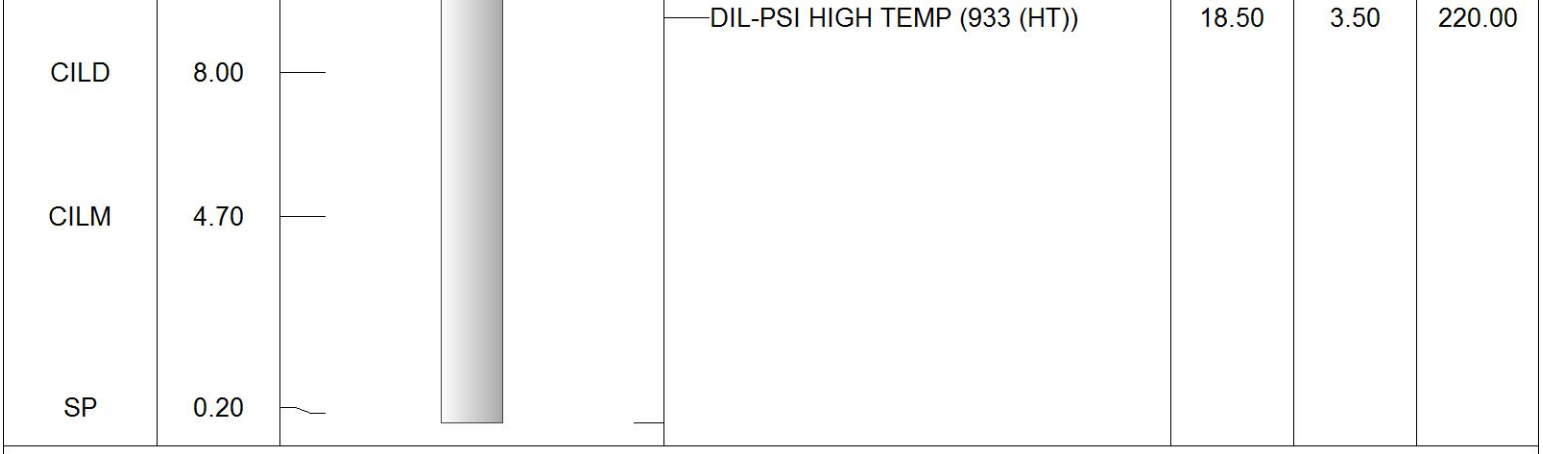
DatabaseC:\ProgramData\Warrior\Data\everglow_warren 1-25.db
Dataset field/well/STKML/pass4.1/_vars_

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-147	0

SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	50	0	5.5	0	5228	128	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	37.48		CNT-M&W (207-MW)	5.50	3.50	100.00
CNSSC	36.73					
			CDL-M&W (182-152)	8.50	4.00	250.00
LSD	28.43					
DCAL	28.42					
SSD	27.93					
			ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
MCAL	19.83					
MI	19.83					
MN	19.83					
RLL3F	15.80					
RLL3	15.80					



Dataset:	everglow_warren 1-25.db: field/well/STKML/pass4.1
Total length:	43.08 ft
Total weight:	685.00 lb
O.D.:	4.00 in

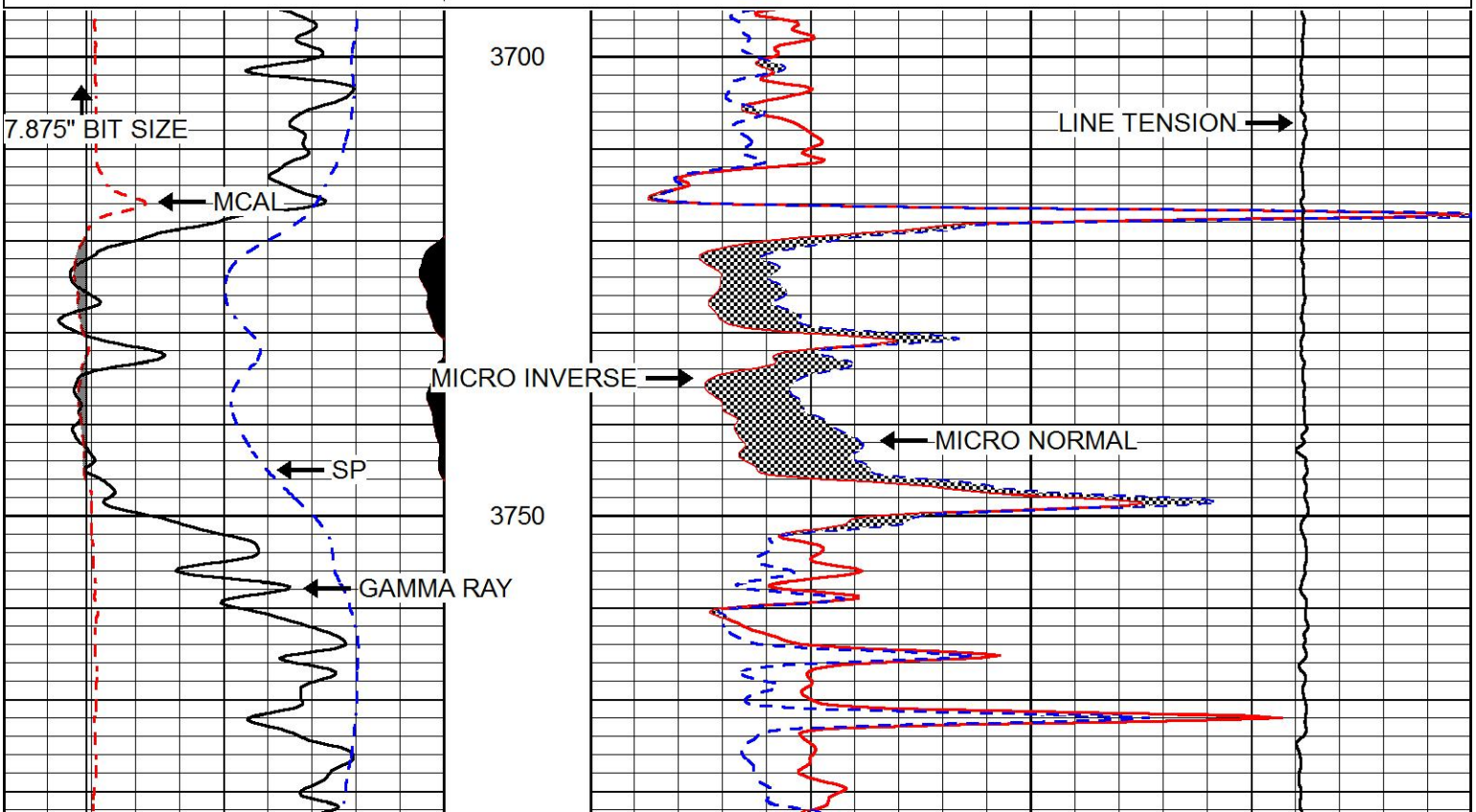
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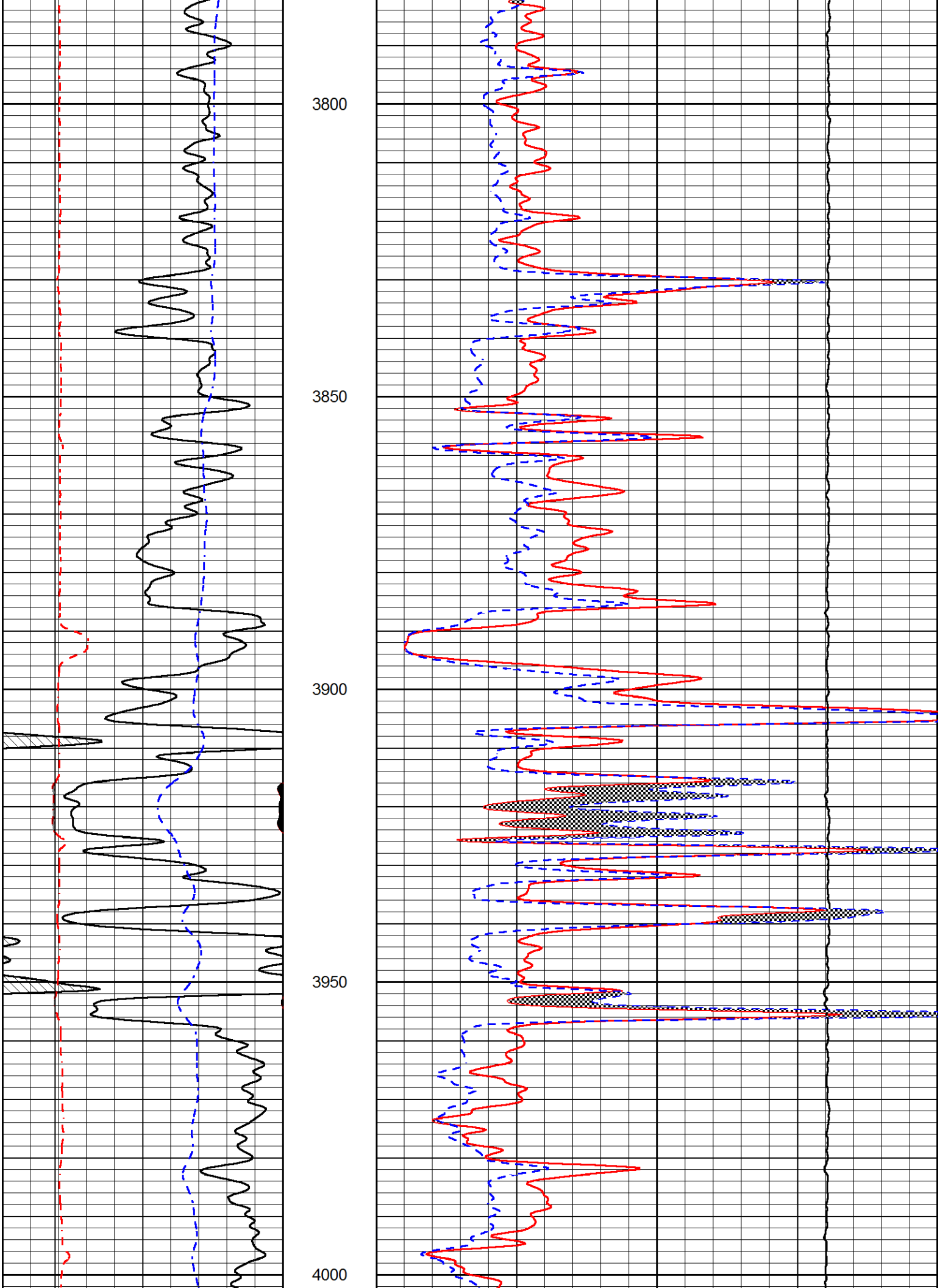
MAIN PASS

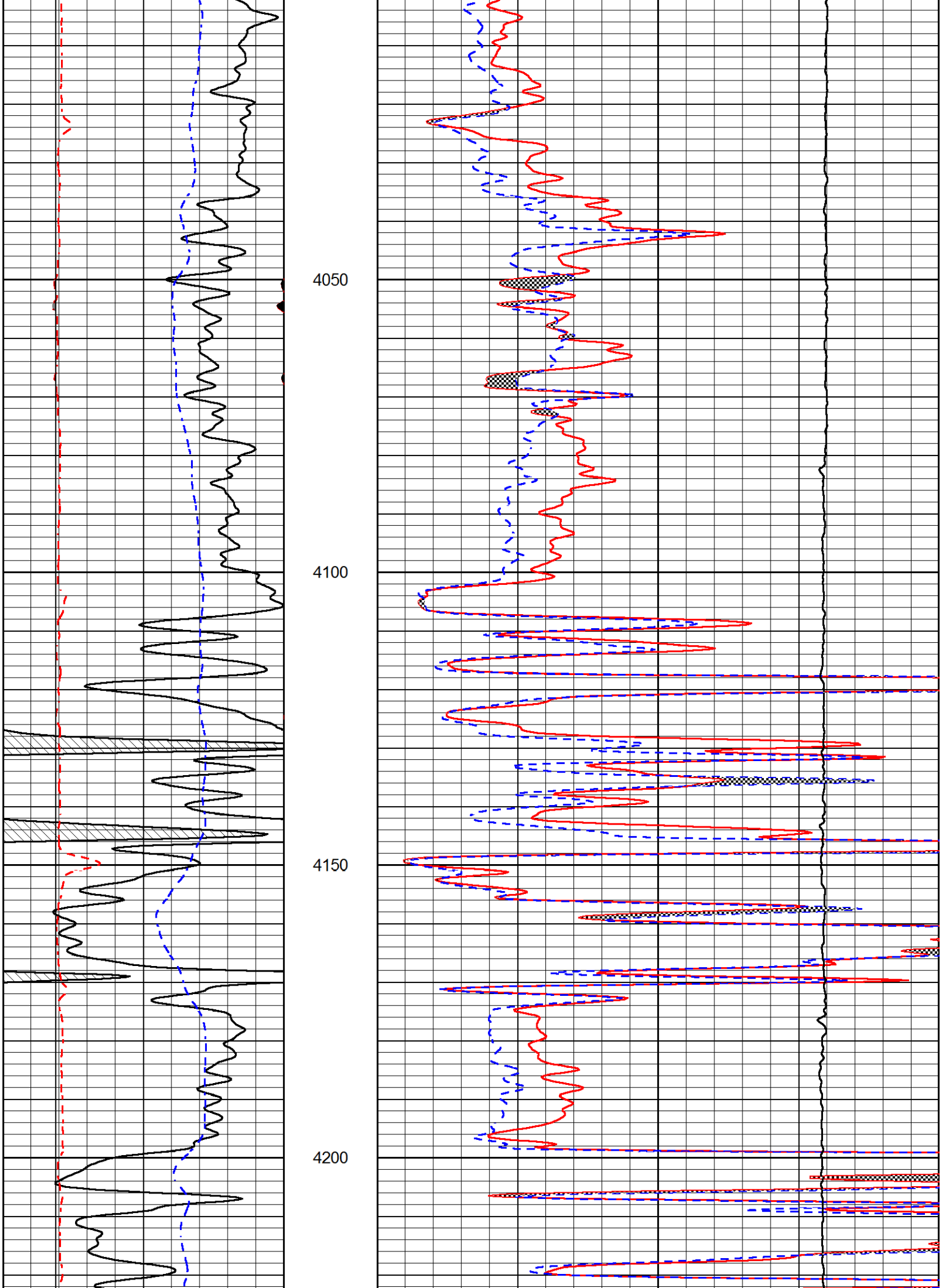
Database File	everglow_warren 1-25.db
Dataset Pathname	STKML/pass4.1
Presentation Format	micro
Dataset Creation	Tue Feb 13 22:36:20 2018
Charted by	Depth in Feet scaled 1:240

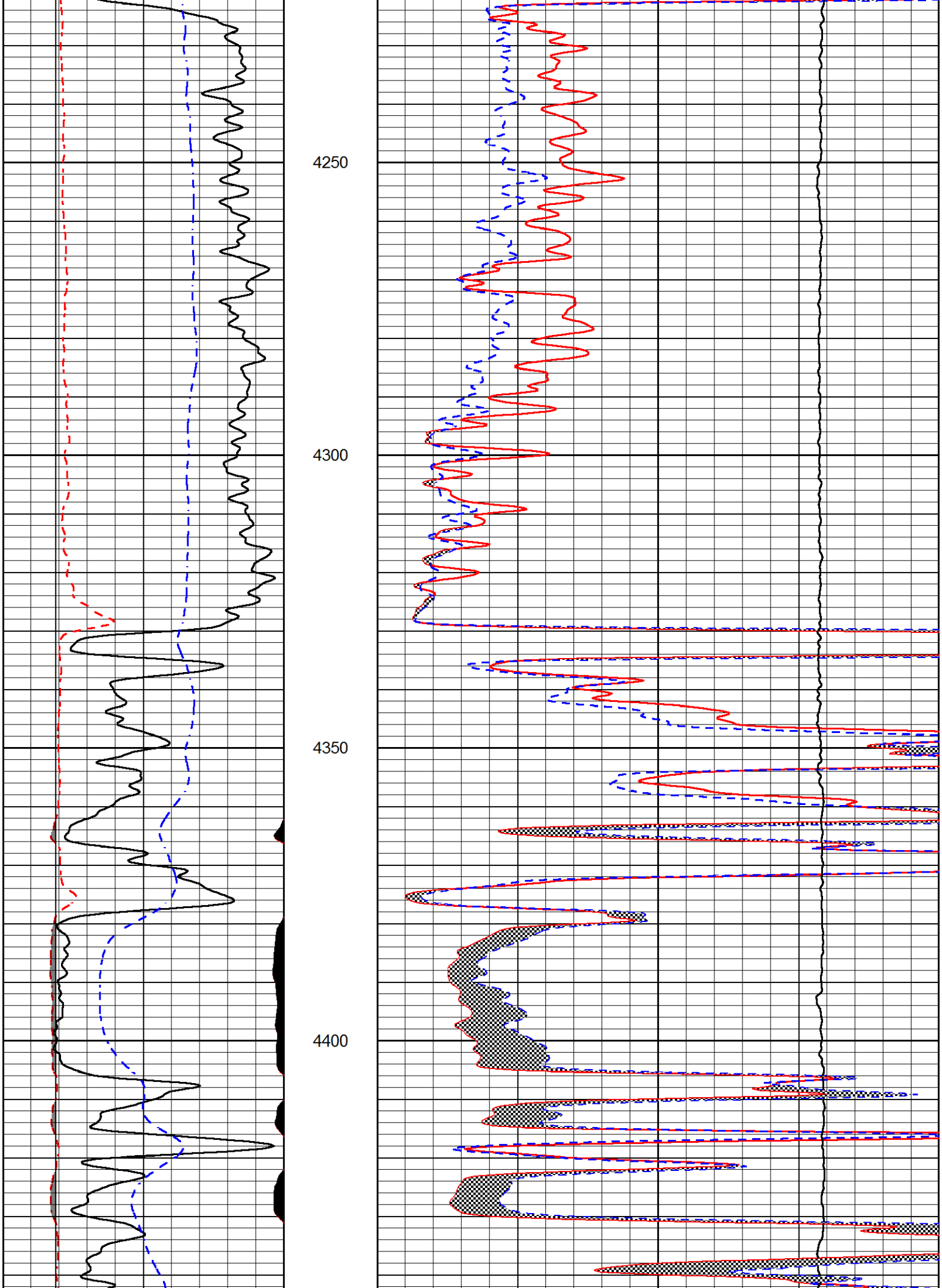
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

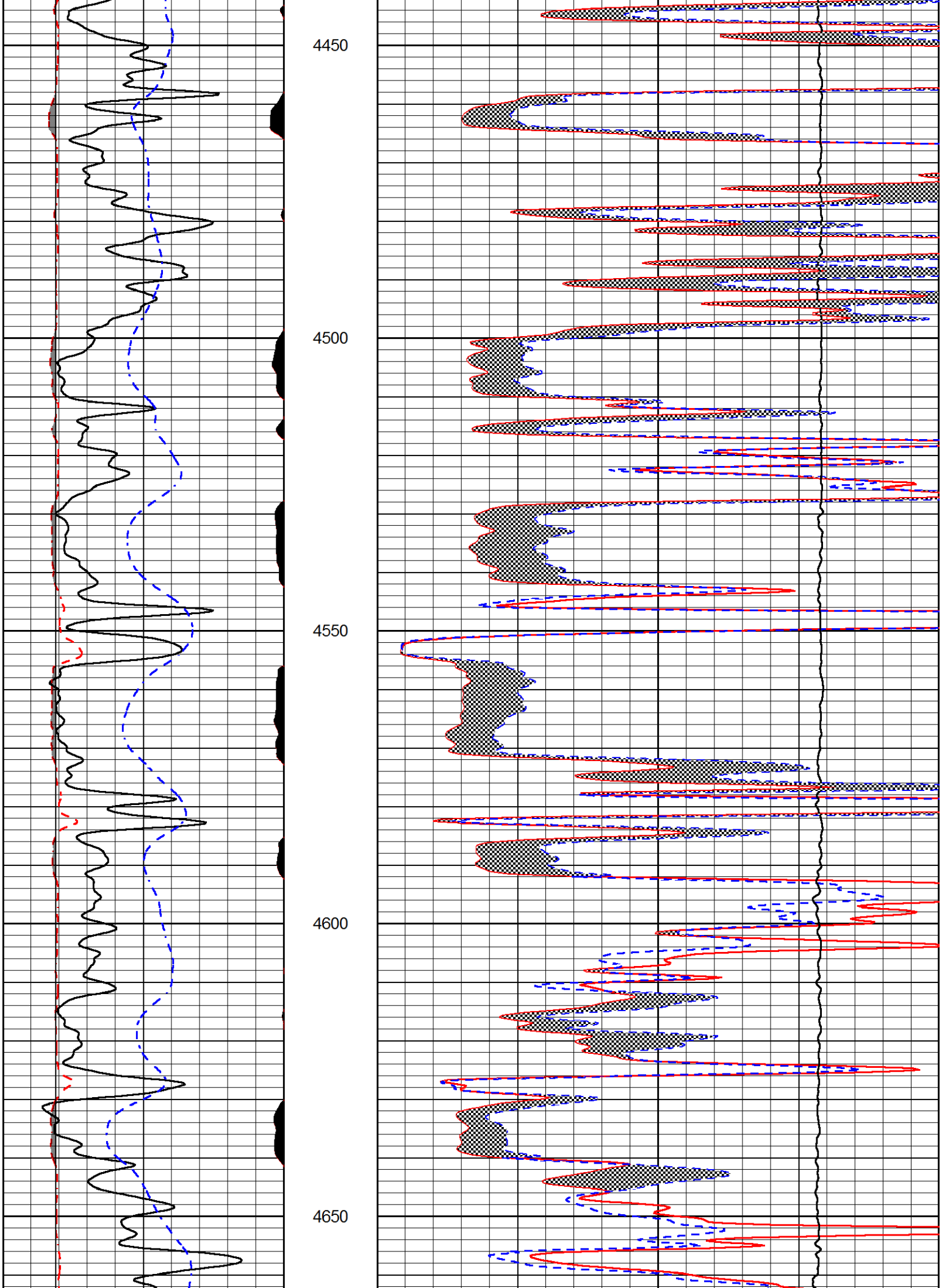
0	Micro Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

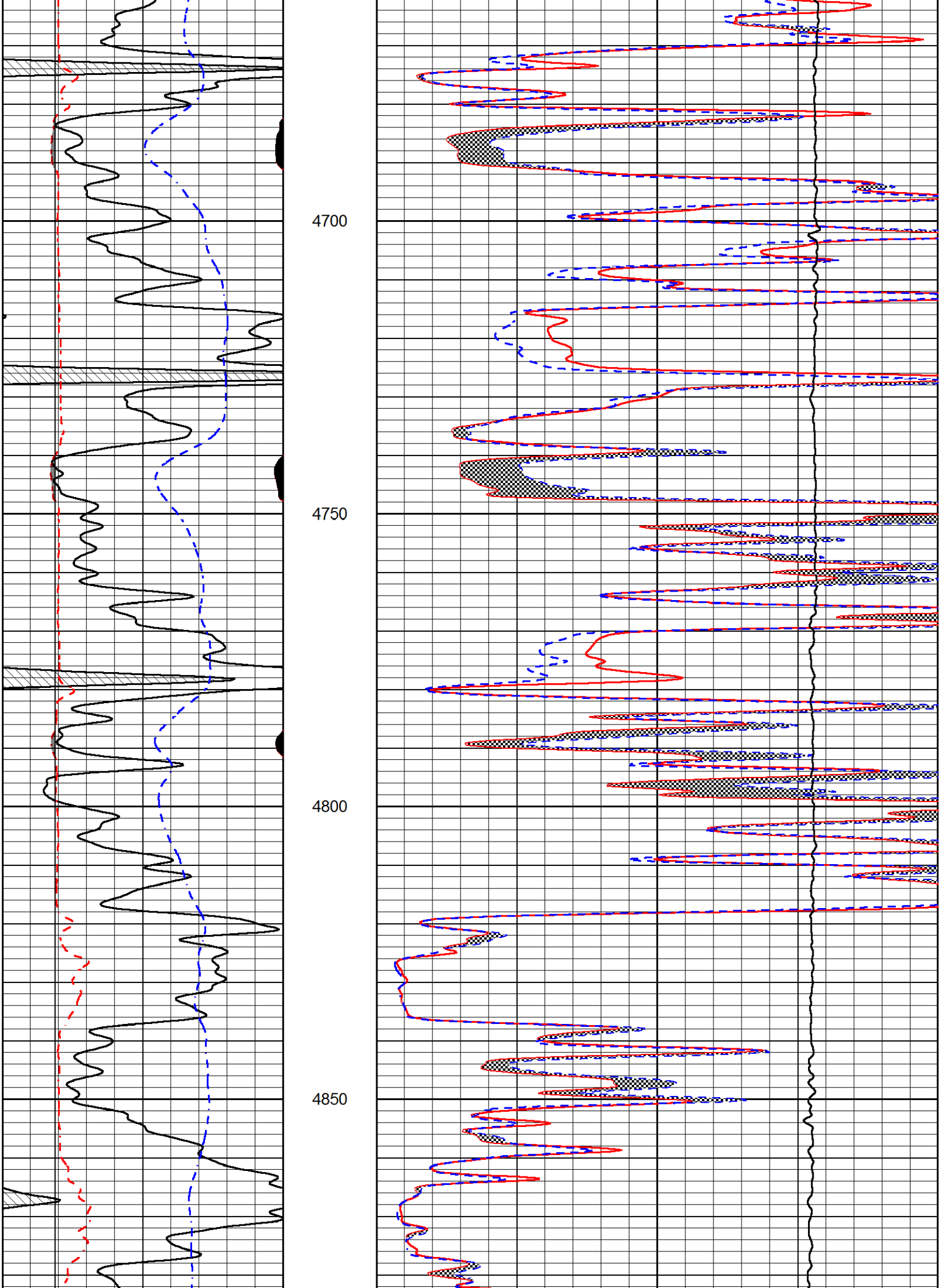


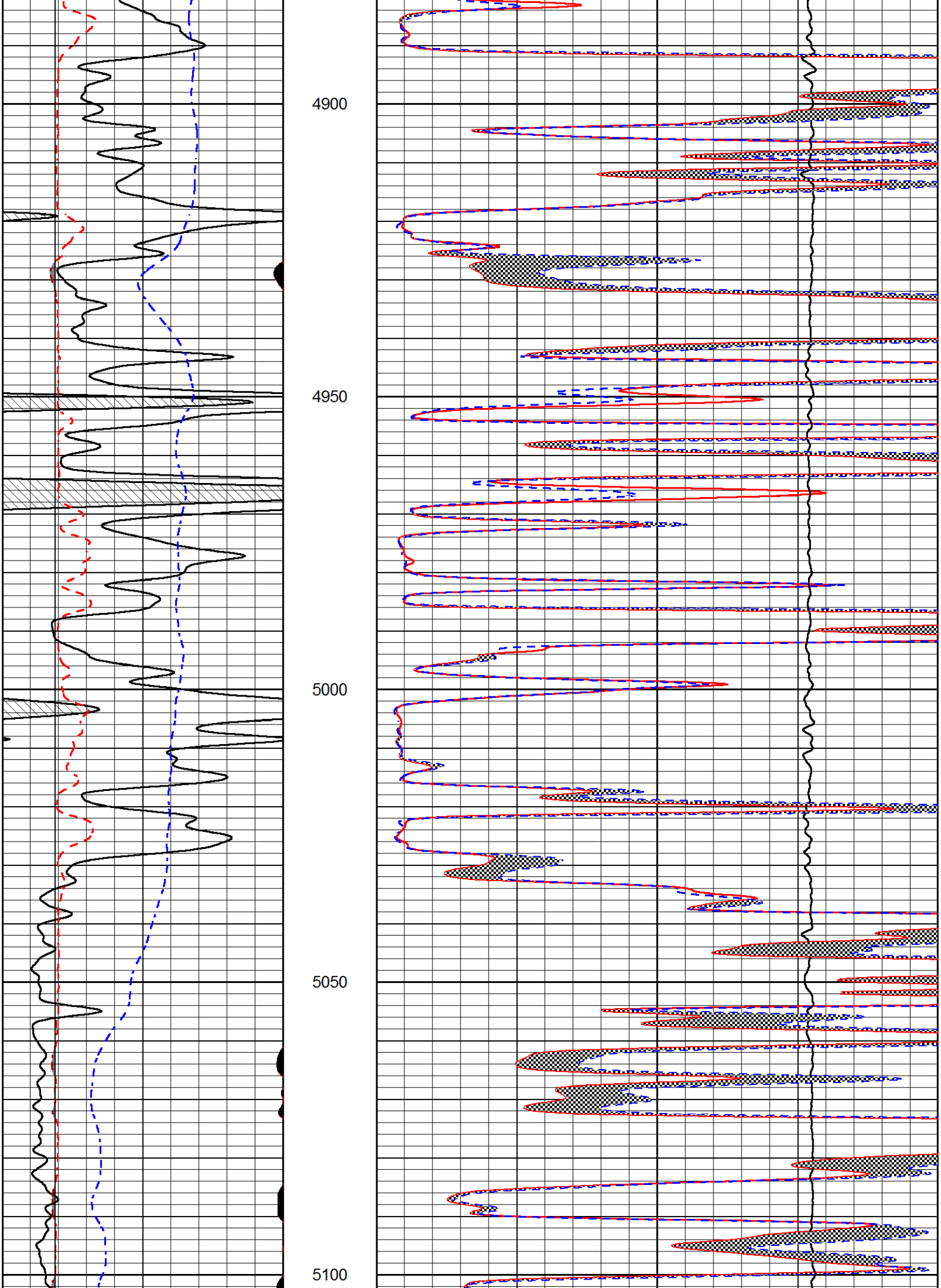

3800
3850
3900
3950
4000

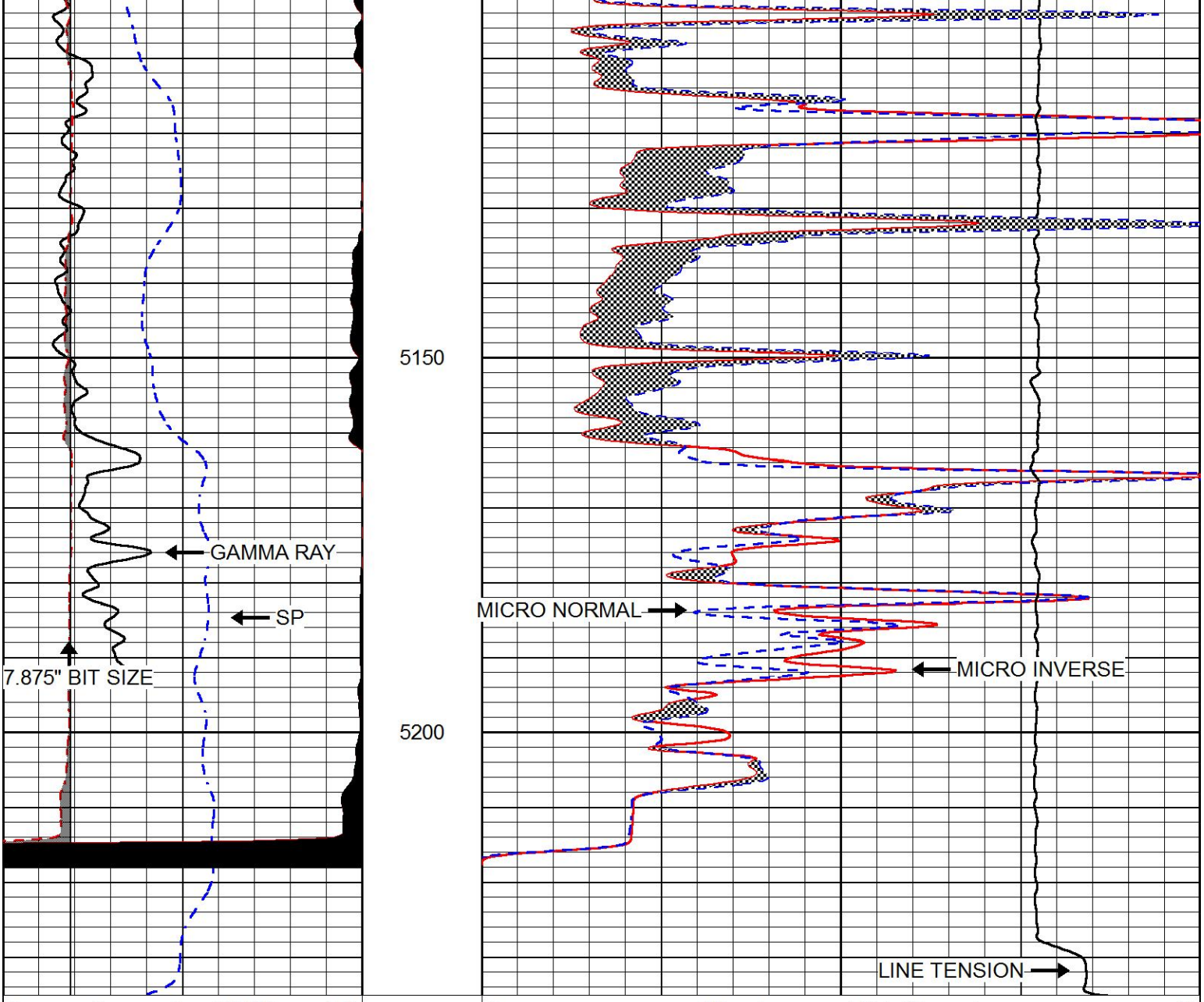

4050
4100
4150
4200


4250
4300
4350
4400


4450
4500
4550
4600
4650


4700
4750
4800
4850


4900
4950
5000
5050
5100



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 Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

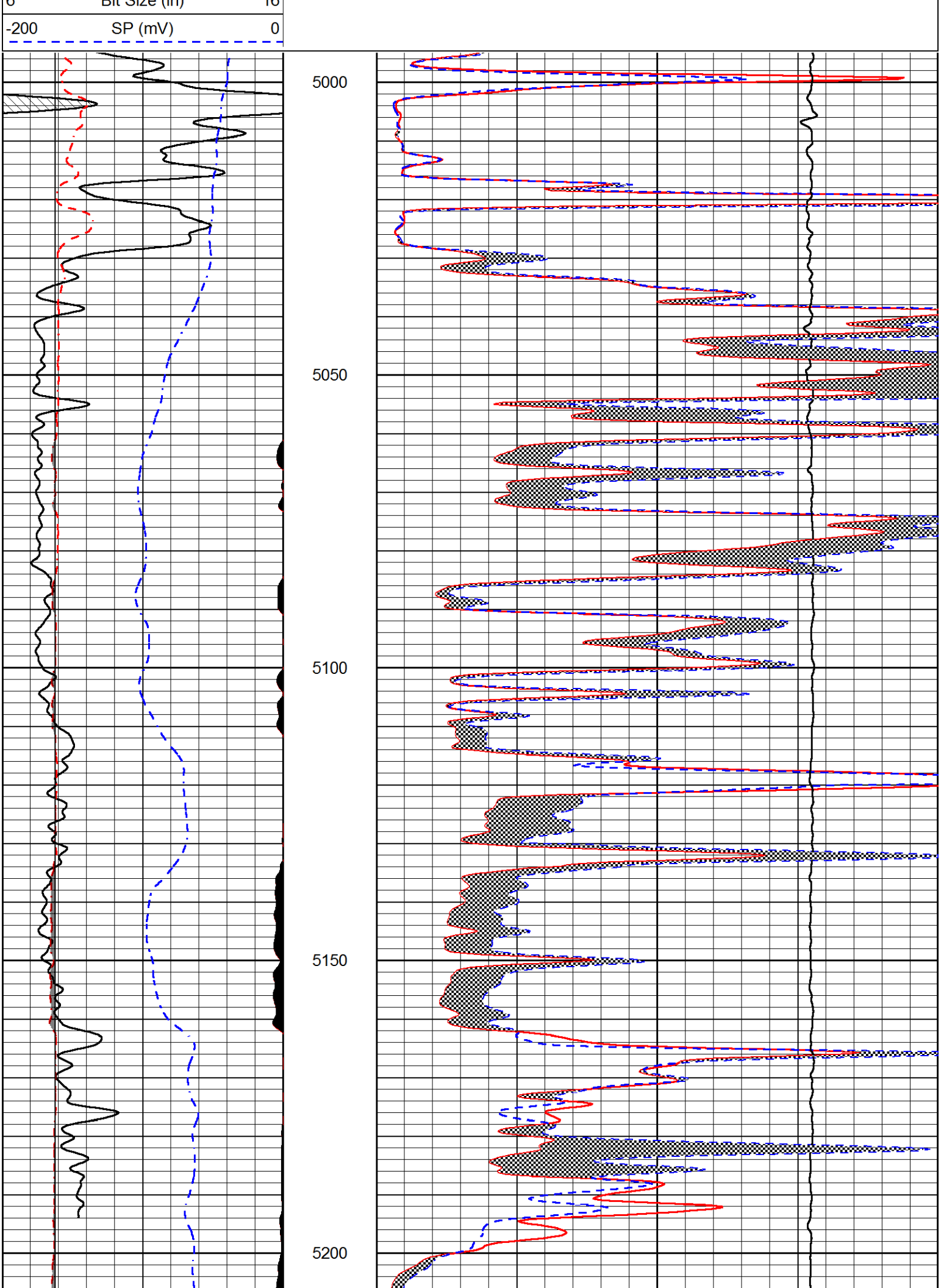
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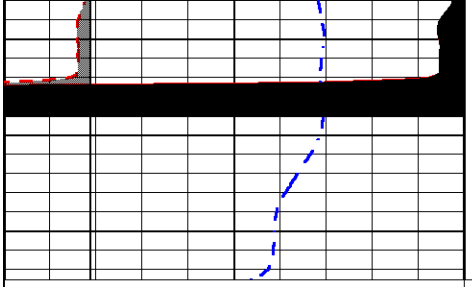
REPEAT SECTION

Database File	everglow_warren 1-25.db
Dataset Pathname	STKML/pass2.1
Presentation Format	micro
Dataset Creation	Tue Feb 13 22:33:21 2018
Charted by	Depth in Feet scaled 1:240

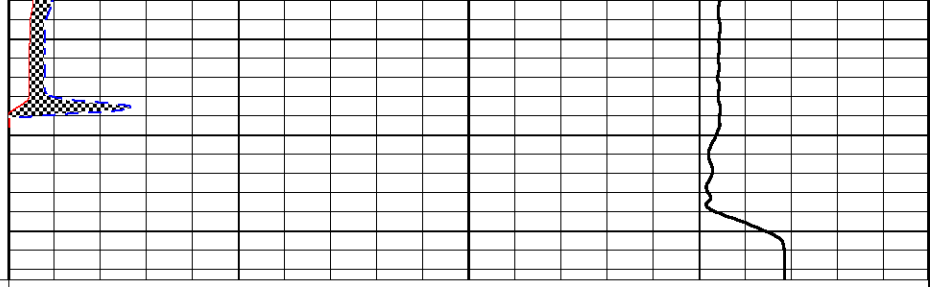
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16

0	Micro Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0


6
Bit Size (in)
16
-200
SP (mV)
0
5000
5050
5100
5150
5200



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 Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

Calibration Report

Database File	everglow_warren 1-25.db
Dataset Pathname	STKML/pass4.1
Dataset Creation	Tue Feb 13 22:36:20 2018

Dual Induction Calibration Report

Serial-Model:	933 (HT)-PSI HIGH TEMP
Calibration Performed:	Mon Feb 12 17:16:25 2018

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.720	-18.350
Medium	142.000	1349.000	0.000	255.000	mmho/m	0.560	-63.000

Microlog Calibration Report

Serial-Model:	PSI-01-PSIML
Performed:	Mon Jan 15 11:19:55 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	34500.0000	-0.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	36000.0000	0.0000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.4000

Compensated Density Calibration Report

Serial-Model:	182-152-M&W
Source / Verifier:	16955B / 2ci
Master Calibration Performed:	Mon Feb 12 16:20:26 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4992.81	6098.44	cps
Aluminum	2.675	g/cc	945.67	3945.60	cps

Spine Angle = 75.33 Density/Spine Ratio = 0.535

	Size		Reading
Small Ring	4.50	in	1.09
Large Ring	15.00	in	1.03

Compensated Neutron Calibration Report

Serial Number:	207-MW
Tool Model:	M&W
Calibration Performed:	MON JAN 15 10:30:30 2018

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:	Mon Jan 15 11:20:44 2018	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps

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Well	WARREN #1-25
Field	SHIMER SOUTH
County	COMANCHE
State	KANSAS