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Pioneer Energy Services

DUAL INDUCTION LOG

Company CONCORDE RESOURCES CORP
Well MCDANIEL #1-27
Field WILDCAT
County LOGAN
State KANSAS

Location: API #: 15-109-21492-00-00
2360' FSL & 1572' FWL
SEC 27 TWP 15S RGE 34W

Other Services: CNL/CDL, MEL

Permanent Datum: GROUND LEVEL Elevation 2996'
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING

Elevation: K.B. 3006', D.F. N/A, G.L. 2996'

Company	CONCORDE RESOURCES CORP			
Well	MCDANIEL #1-27			
Field	WILDCAT			
County	LOGAN			
State	KANSAS			
Location:	API #: 15-109-21492-00-00			
	2360' FSL & 1572' FWL			
	SEC 27 TWP 15S RGE 34W			
Permanent Datum	GROUND LEVEL	Elevation	2996'	
Log Measured From	KELLY BUSHING			
Drilling Measured From	KELLY BUSHING			
Date	3/18/2017			
Run Number	ONE			
Depth Driller	4707'			
Depth Logger	4708'			
Bottom Logged Interval	4707'			
Top Log Interval	300'			
Casing Driller	8.625" @ 307'			
Casing Logger	306'			
Bit Size	7.875"			
Type Fluid in Hole	CHEMICAL			
Salinity,ppm CL	3500			
Density / Viscosity	9.0	53		
pH / Fluid Loss	10.5	8.0		
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	0.80 @ 72			
Rmf @ Meas. Temp	0.60 @ 72			
Rmc @ Meas. Temp	1.08 @ 72			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	0.47 @ 123			
Operating Rig Time	3 HOURS			
Max Rec. Temp. F	123			
Equipment Number	91			
Location	COLBY			
Recorded By	D. SCHMIDT			
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,
SOUTH TO GOLD RD, WEST TO 380 RD,
SOUTH TO DAKOTA RD, WEST TO 340, SOUTH TO ELK,
WEST TO 320, SOUTH TO BISON, 1/2 WEST,
NORTH INTO

Log Measured From: KELLY BUSHING 10 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: LARRY NICHOLSON
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

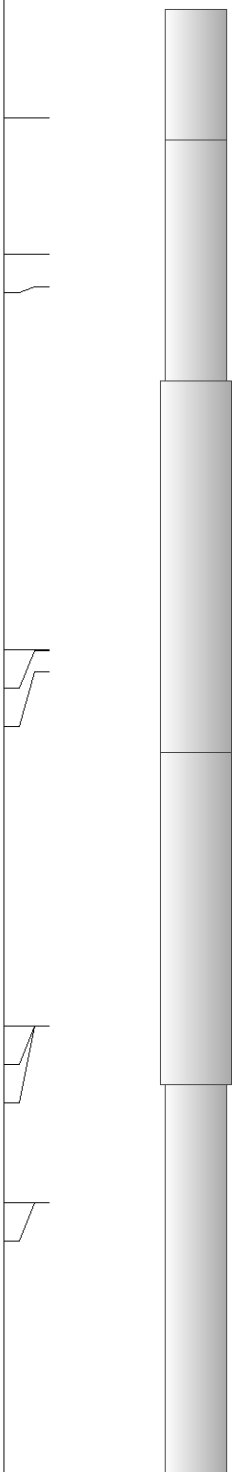
Log Variables

Database C:\ProgramData\Warrior\Data\concorde_mcdaniel_1-27.db
Dataset field/well/STKML/pass3.7/_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	455	0

SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	74	0	5.5	0	4708	123	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 (90-1031)	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					

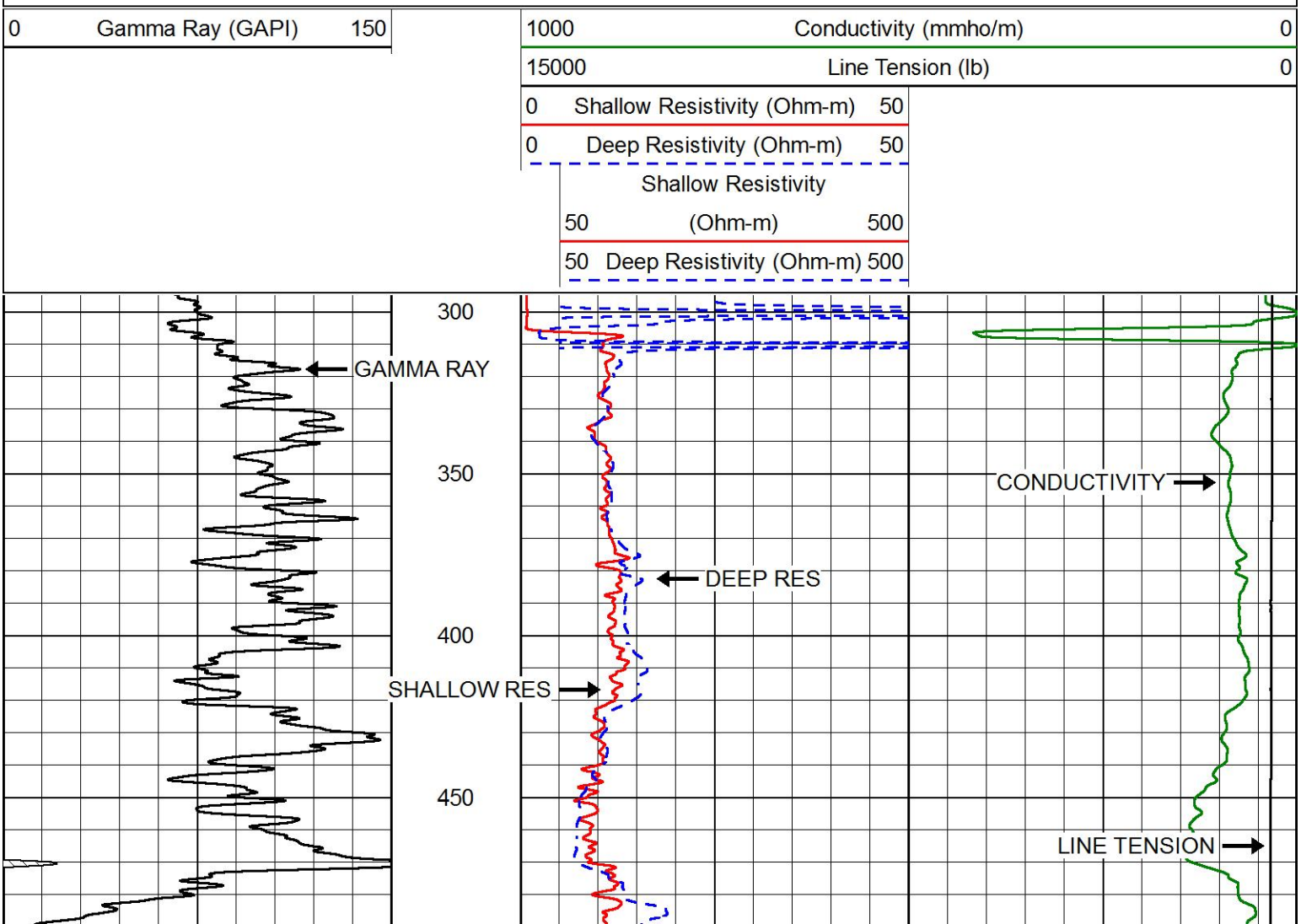
			DIL-M&W (PSI 13)	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					

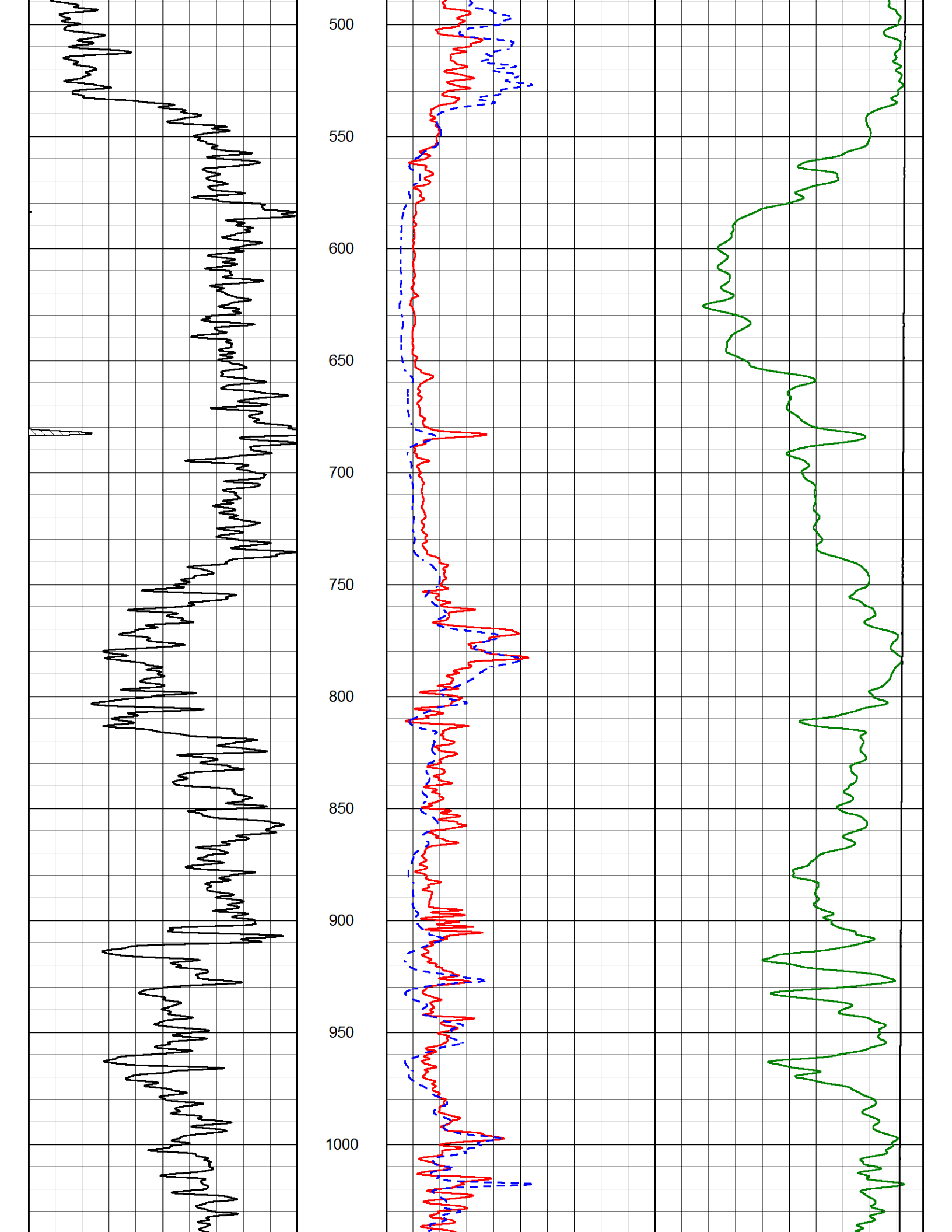
Dataset: concorde_mcdaniel_1-27.db: field/well/STKML/pass3.7
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

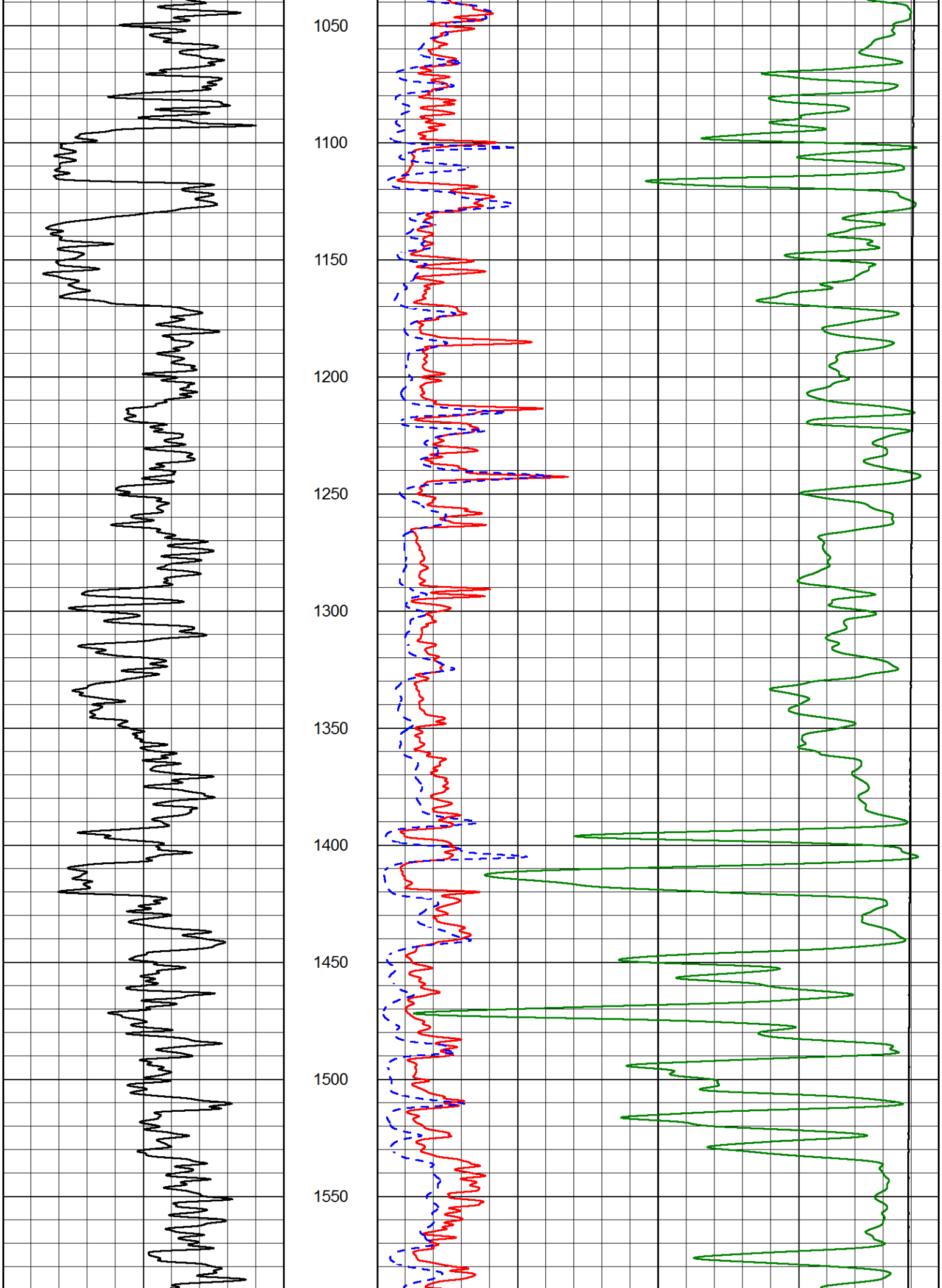
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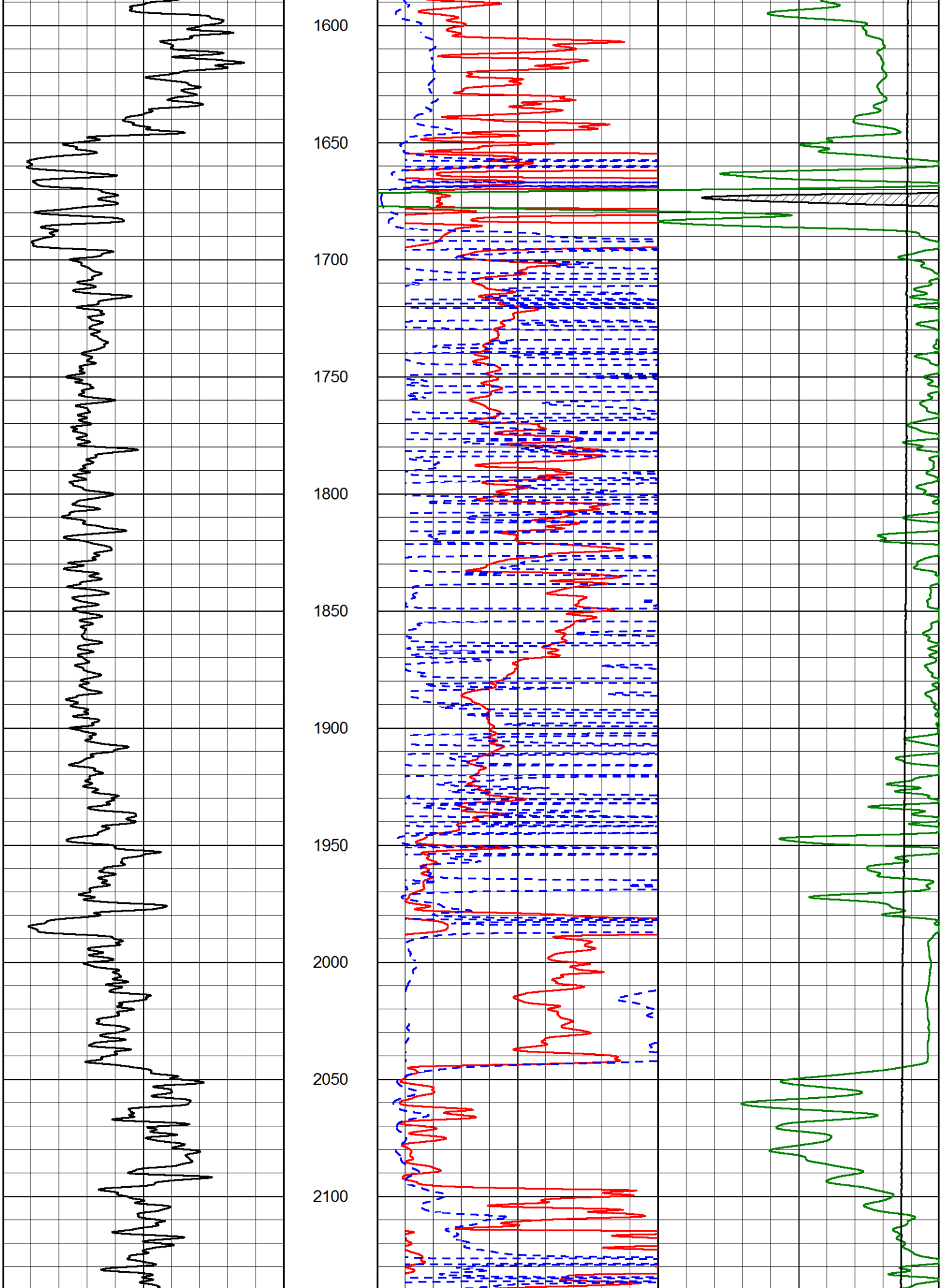
MAIN PASS

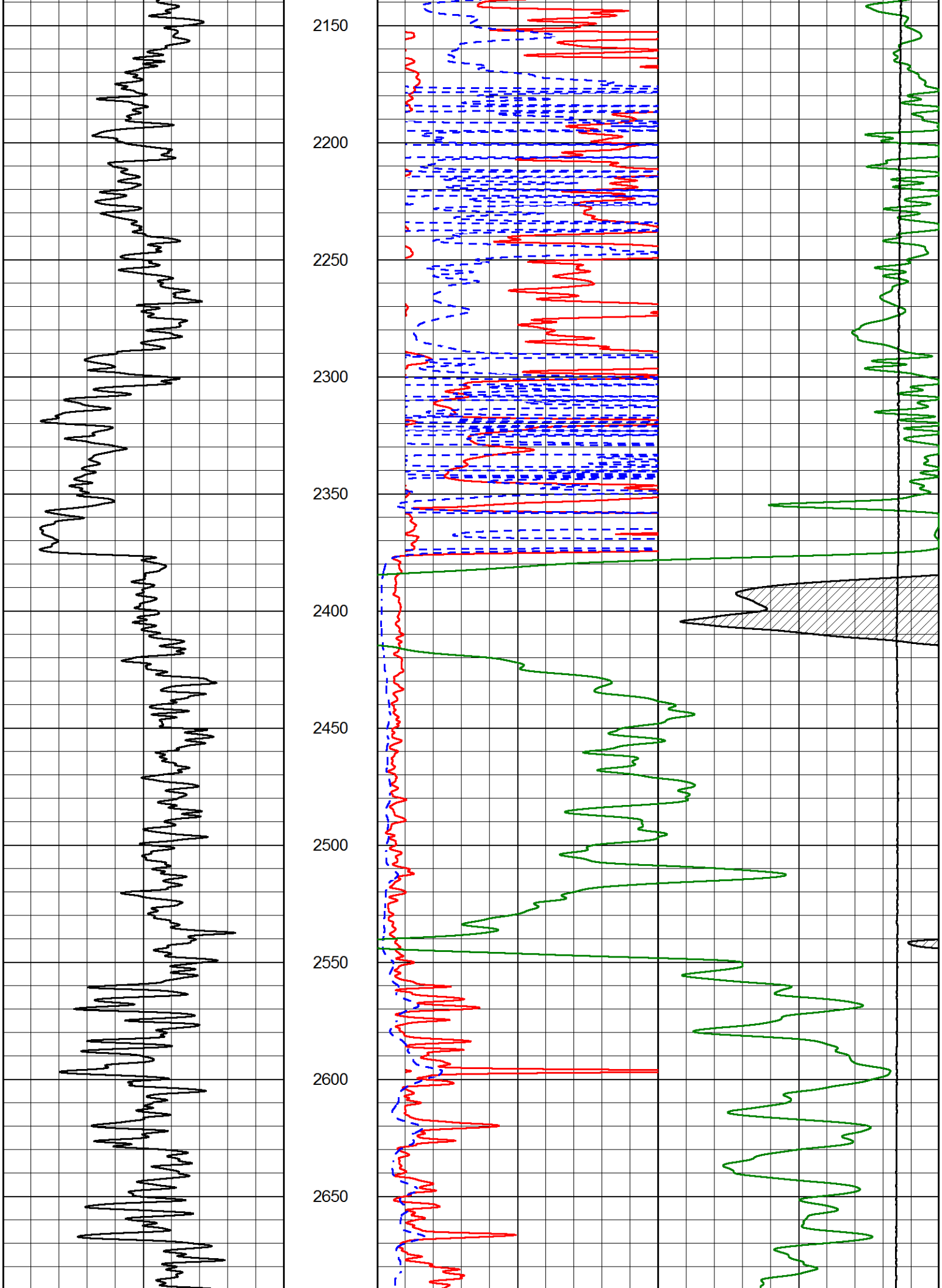
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Dataset Pathname: STKML/pass3.1
Presentation Format: dil2in
Dataset Creation: Sat Mar 18 23:31:23 2017
Charted by: Depth in Feet scaled 1:600

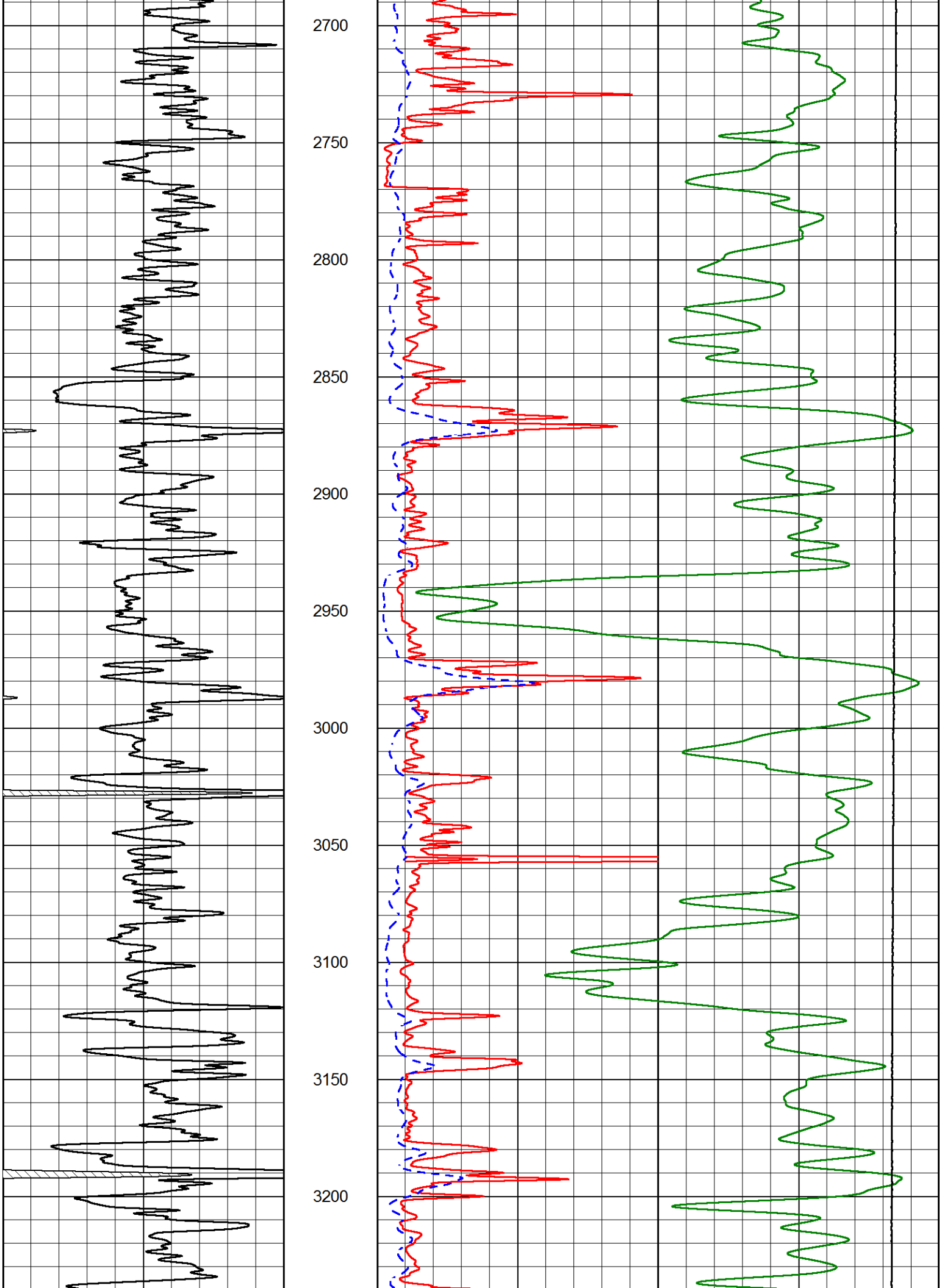


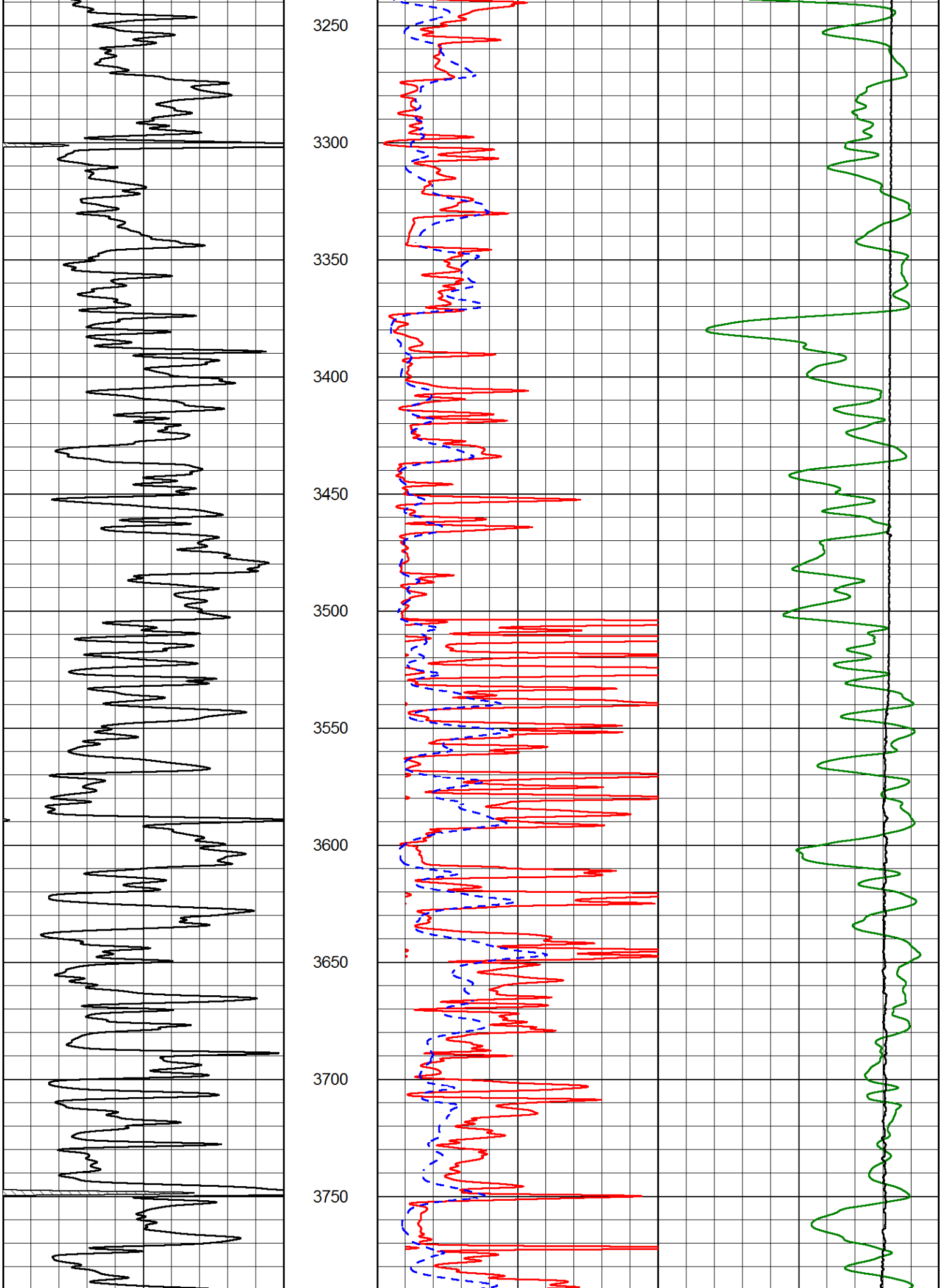

500
550
600
650
700
750
800
850
900
950
1000

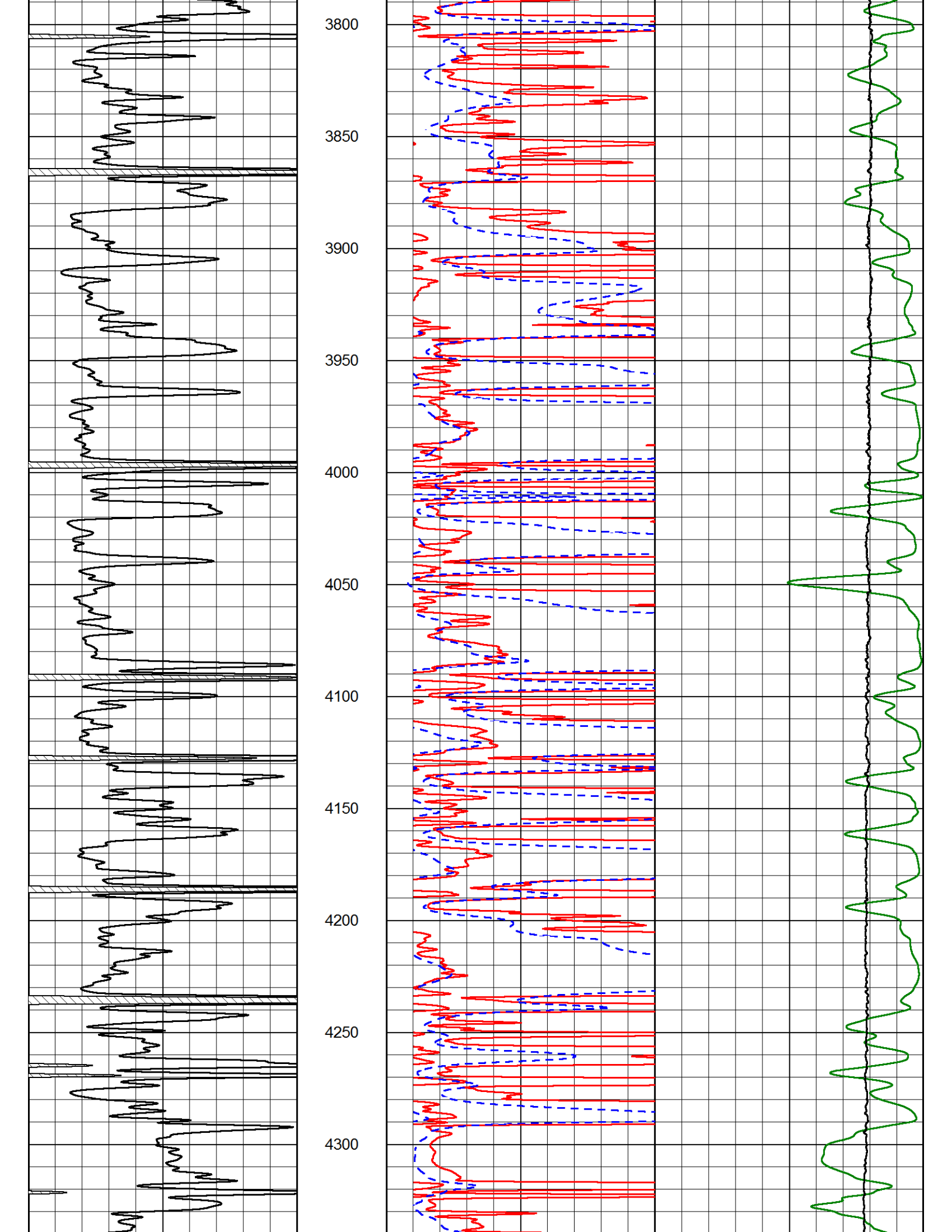

1050
1100
1150
1200
1250
1300
1350
1400
1450
1500
1550

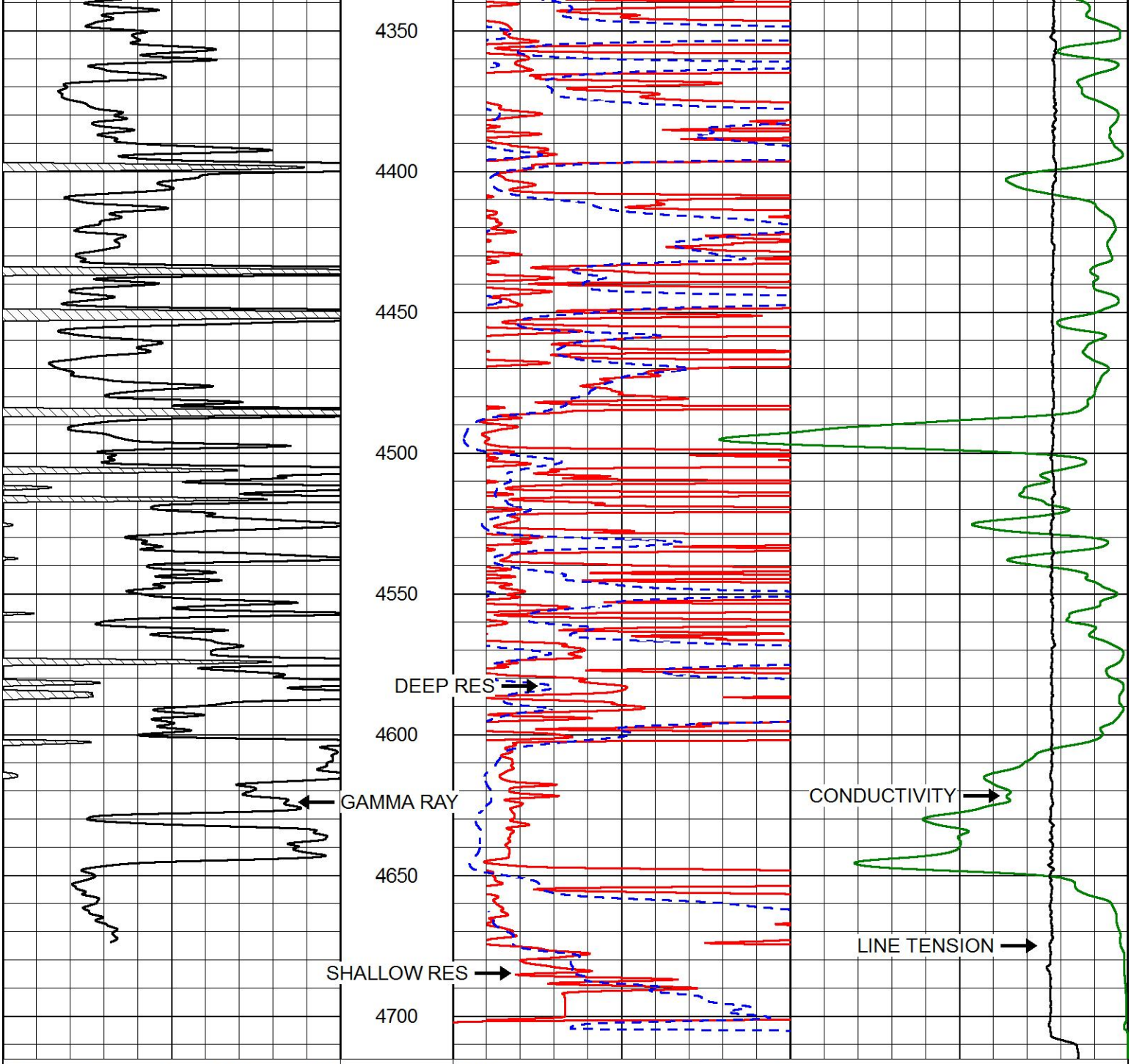

1600
1650
1700
1750
1800
1850
1900
1950
2000
2050
2100


2150
2200
2250
2300
2350
2400
2450
2500
2550
2600
2650


2700
2750
2800
2850
2900
2950
3000
3050
3100
3150
3200


3250
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750


3800
3850
3900
3950
4000
4050
4100
4150
4200
4250
4300



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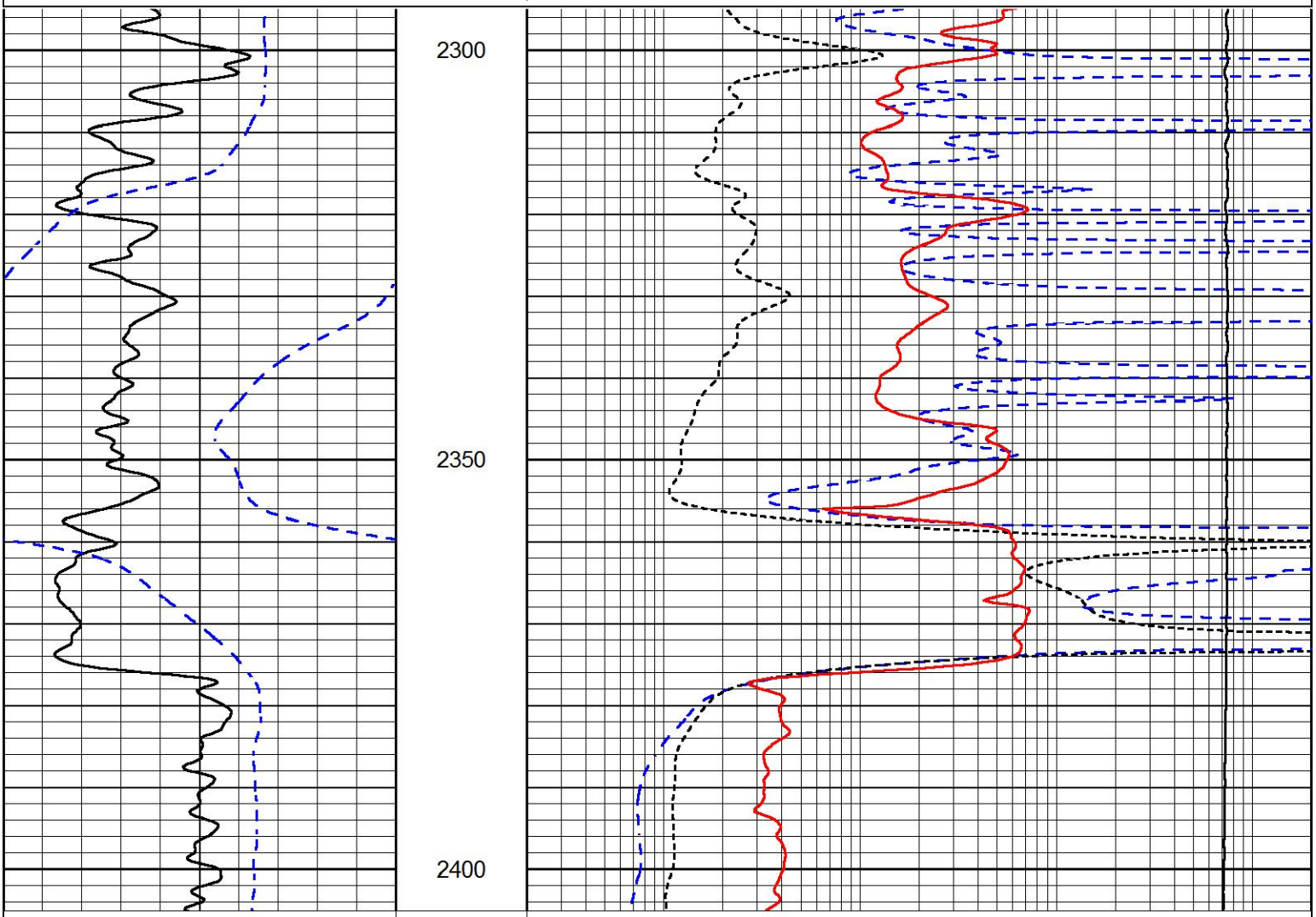
MAIN PASS

Database File	concorde_mcdaniel_1-27.db
Dataset Pathname	STKML/pass3.1
Presentation Format	dil

Presentation Format	dil
Dataset Creation	Sat Mar 18 23:31:23 2017
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0



0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

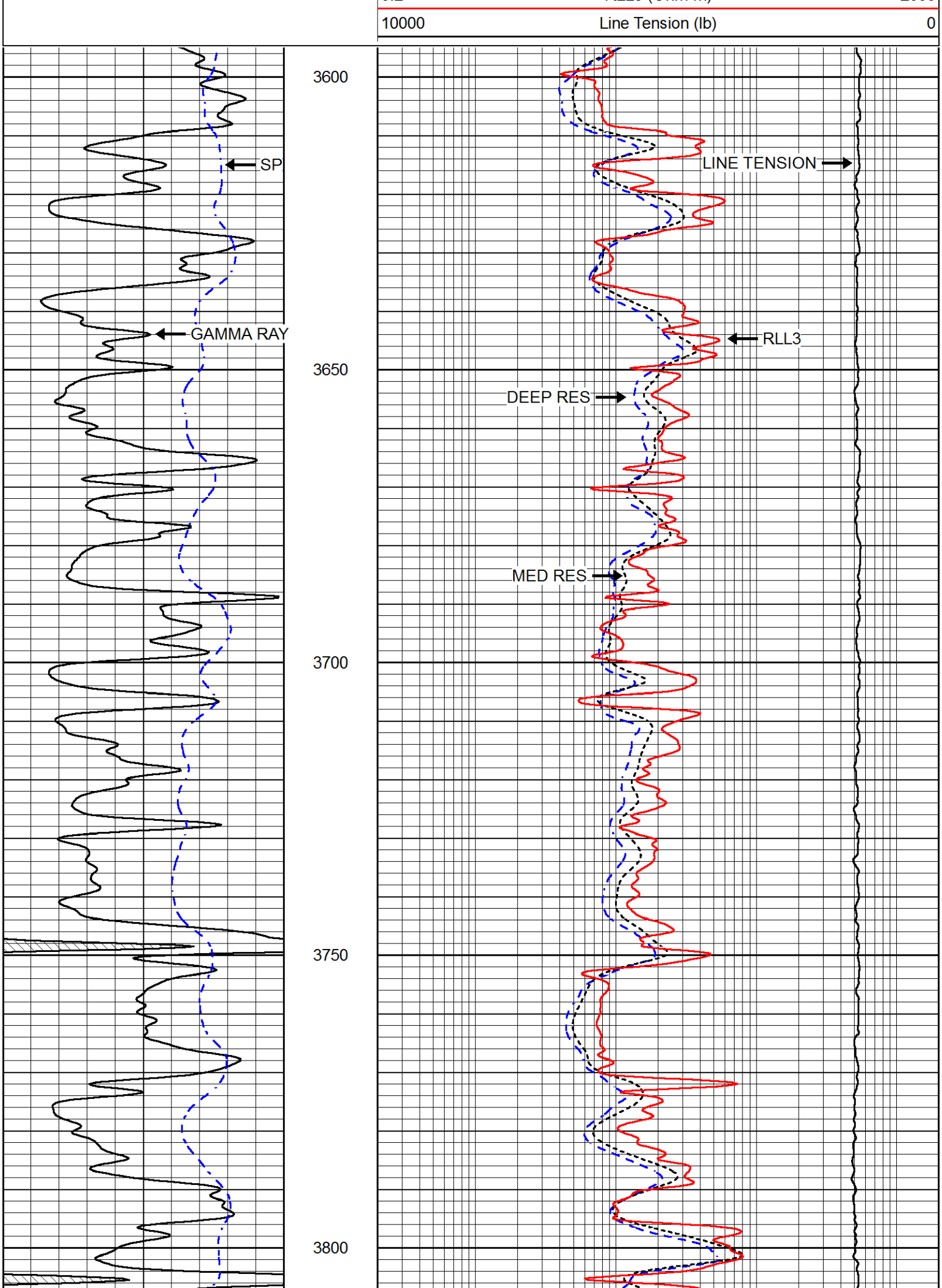
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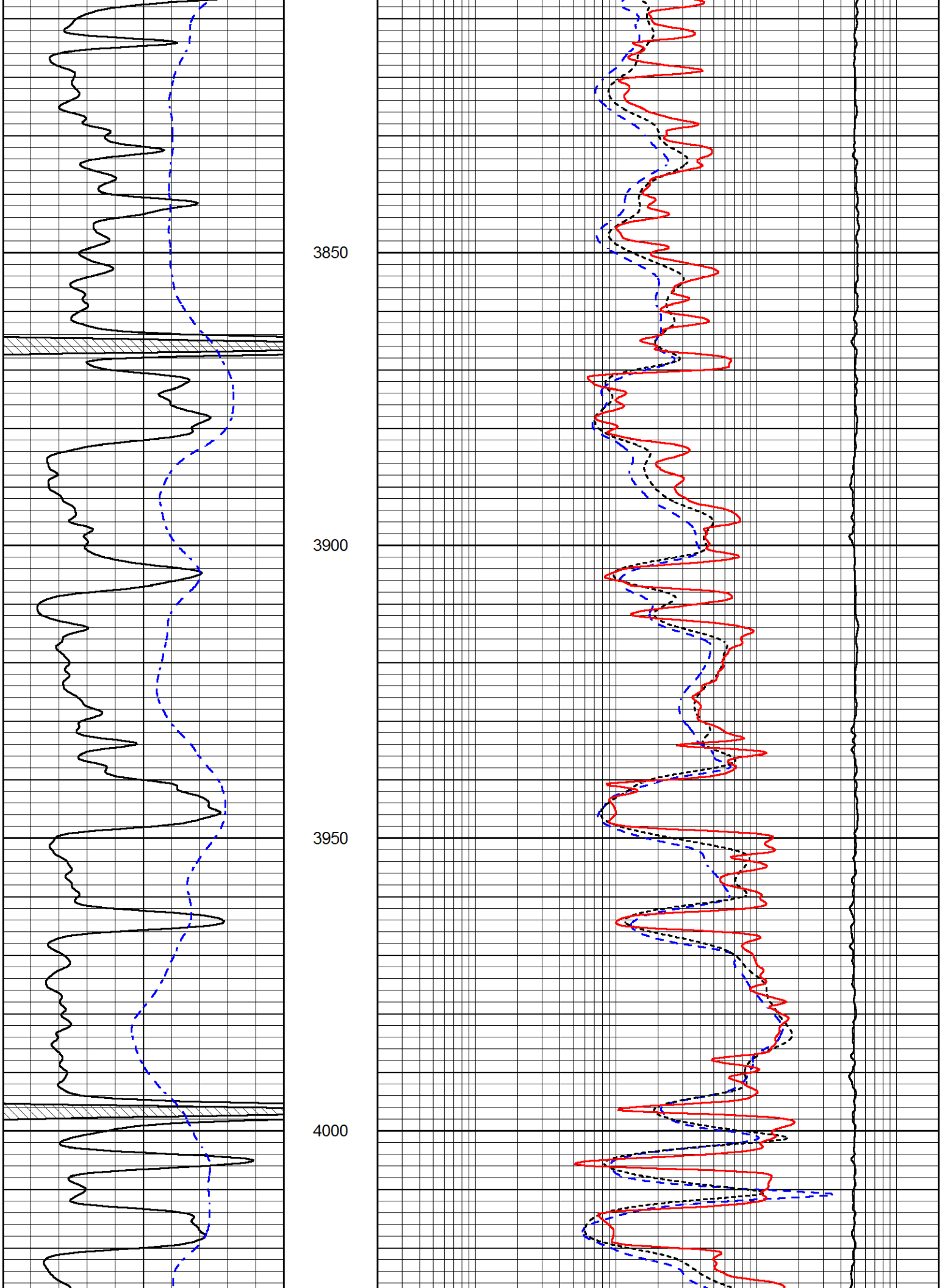
MAIN PASS

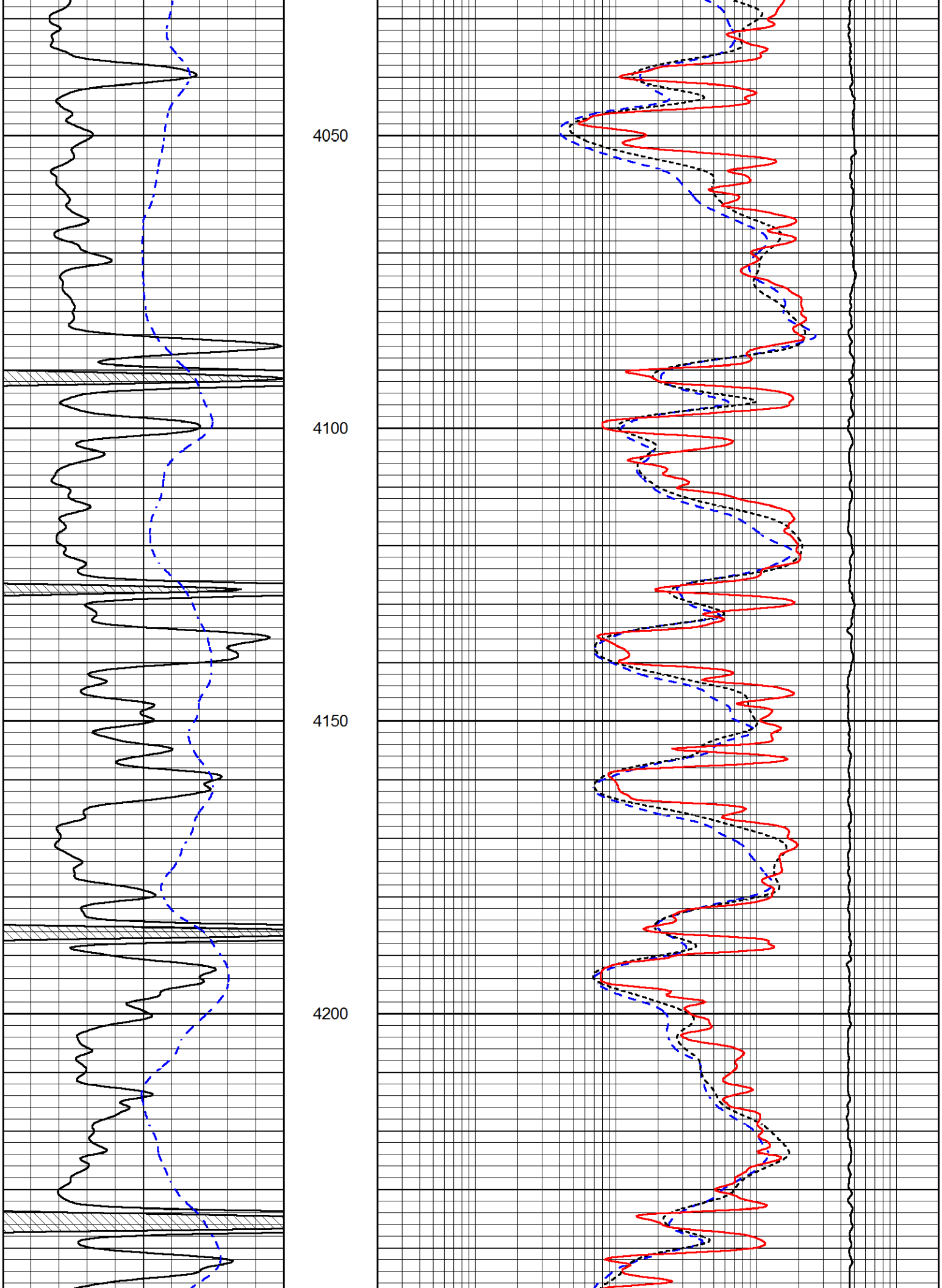
Database File	concorde_mcdaniel_1-27.db
Dataset Pathname	STKML/pass3.7
Presentation Format	dil
Dataset Creation	Sat Mar 18 22:53:33 2017
Charted by	Depth in Feet scaled 1:240

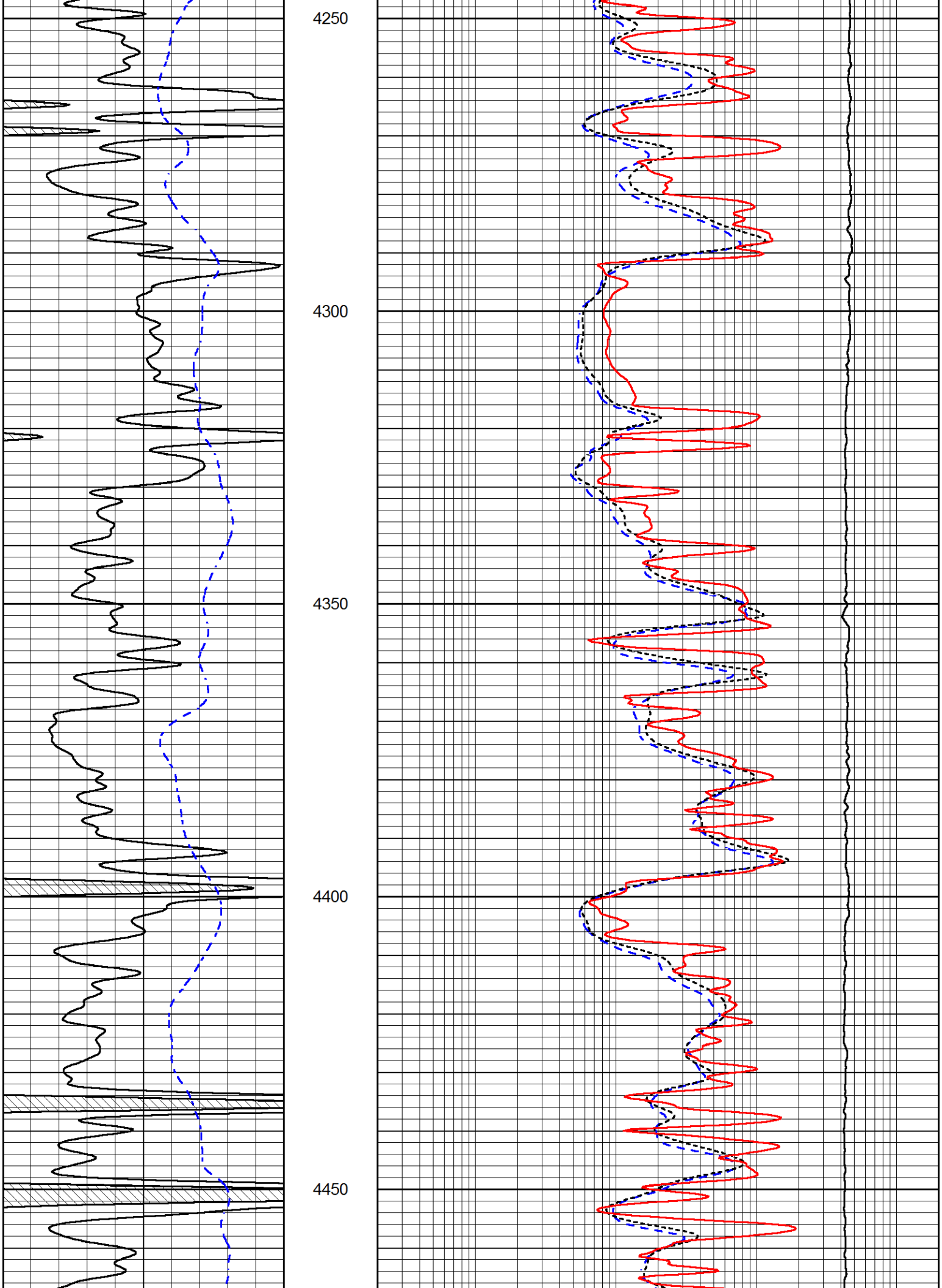
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

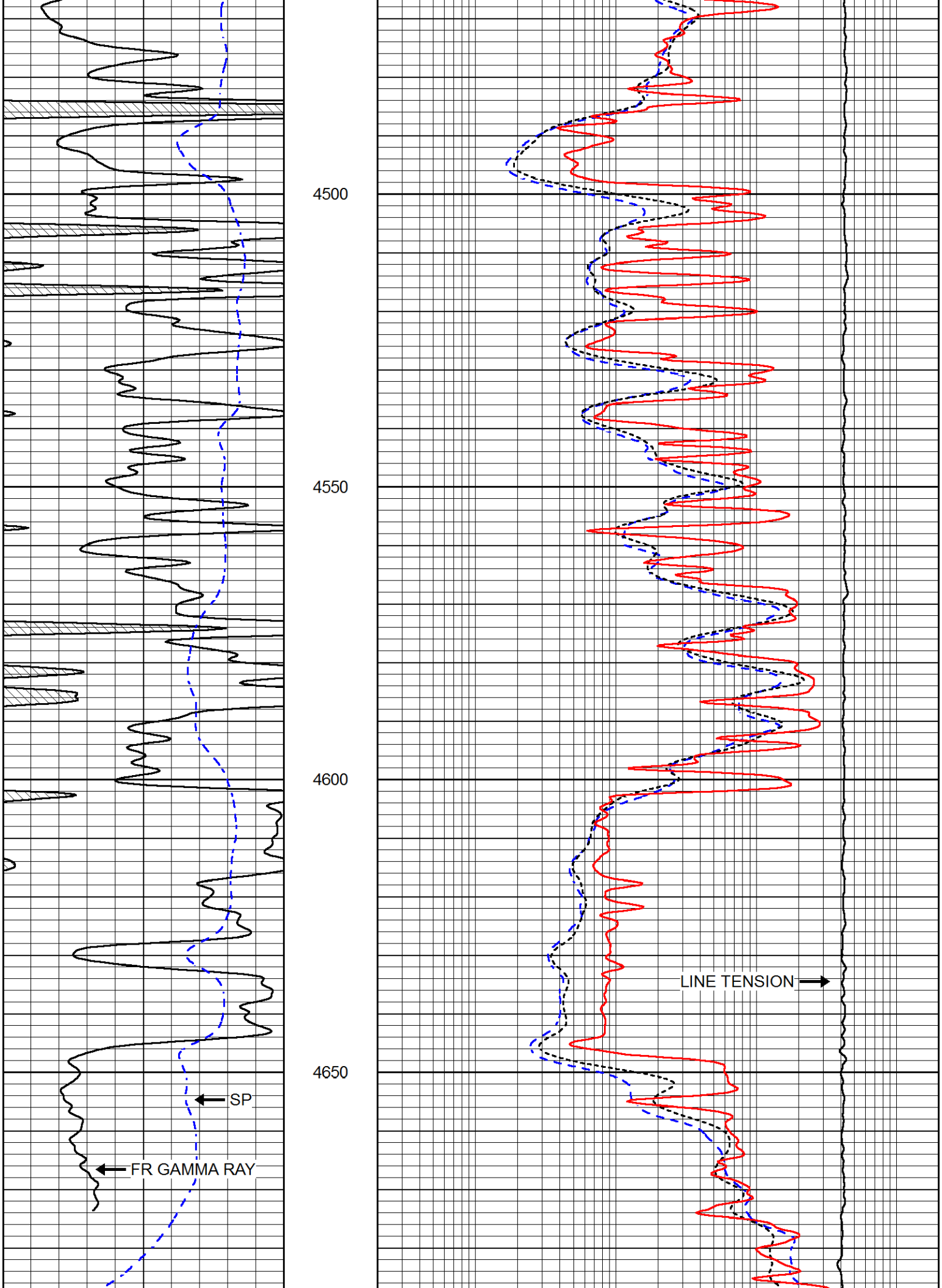
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000

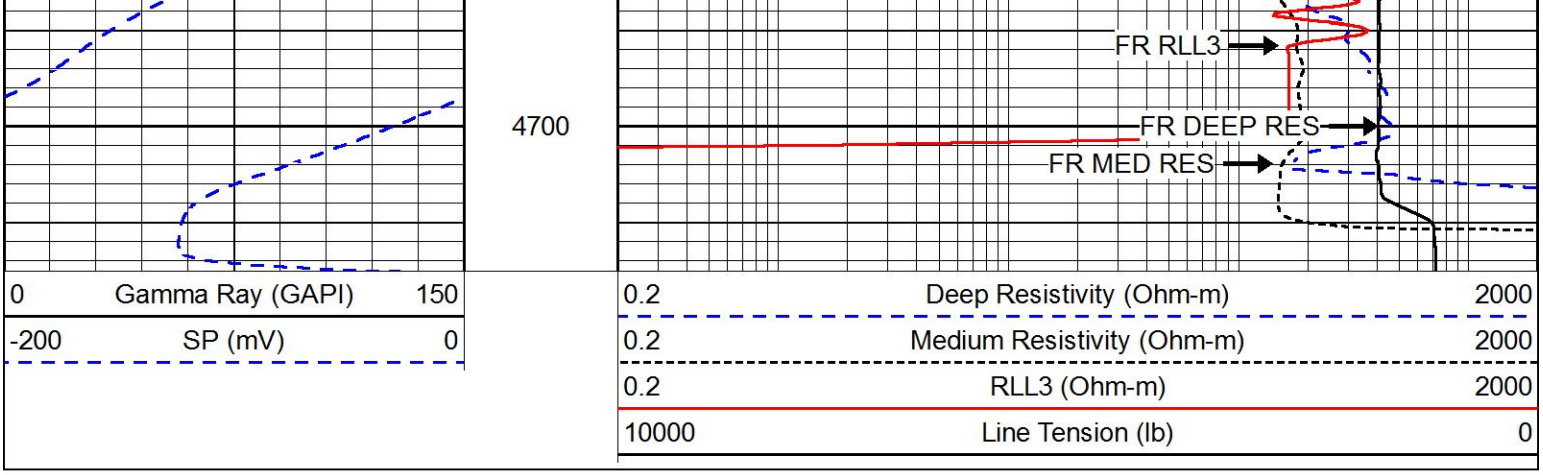

10000
Line Tension (lb)
0
3600
3650
3700
3750
3800
SP
GAMMA RAY
LINE TENSION
RLL3
DEEP RES
MED RES


3850
3900
3950
4000


4050
4100
4150
4200


4250
4300
4350
4400
4450


4500
4550
4600
4650
SP
FR GAMMA RAY
LINE TENSION



0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

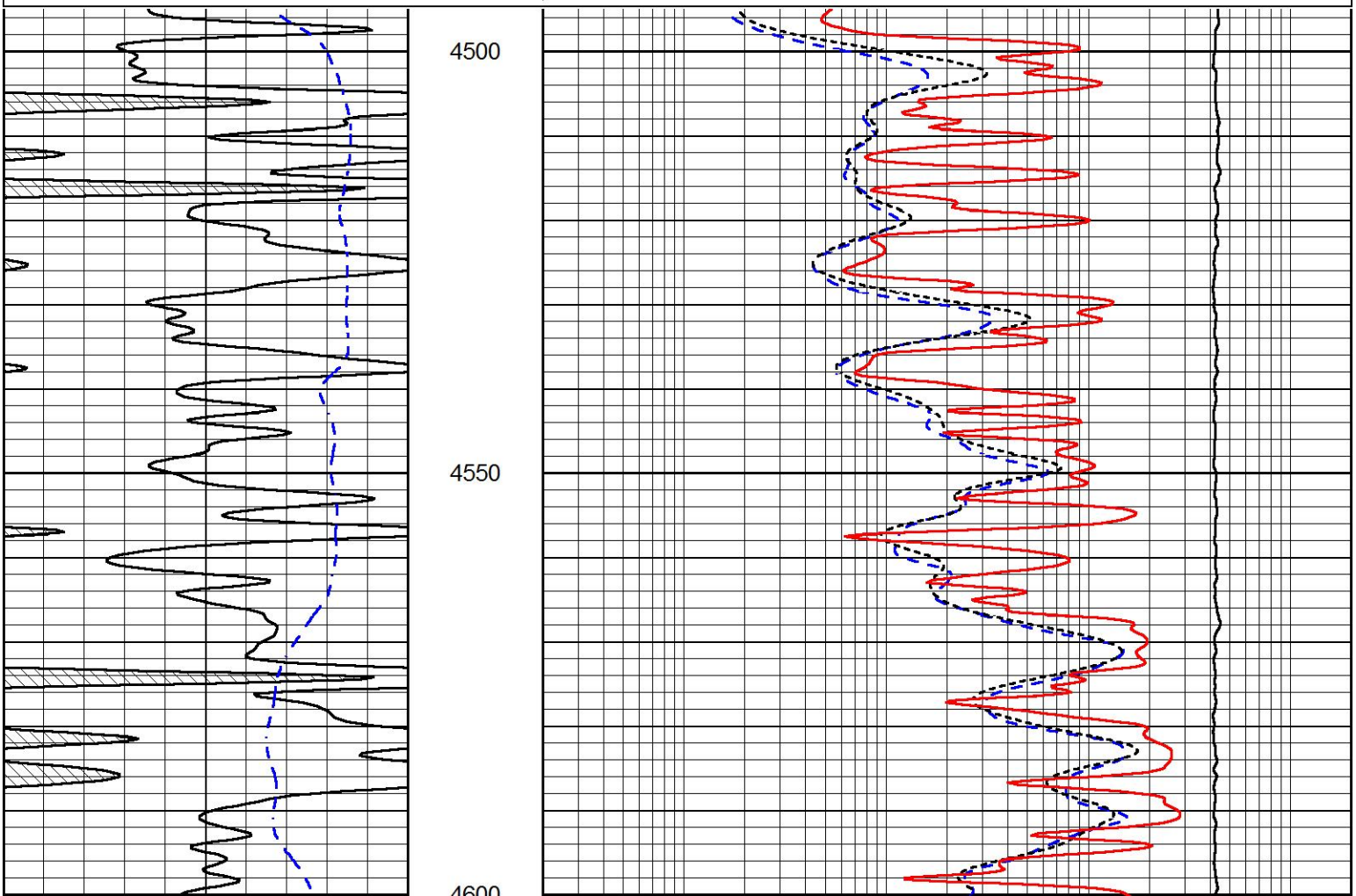
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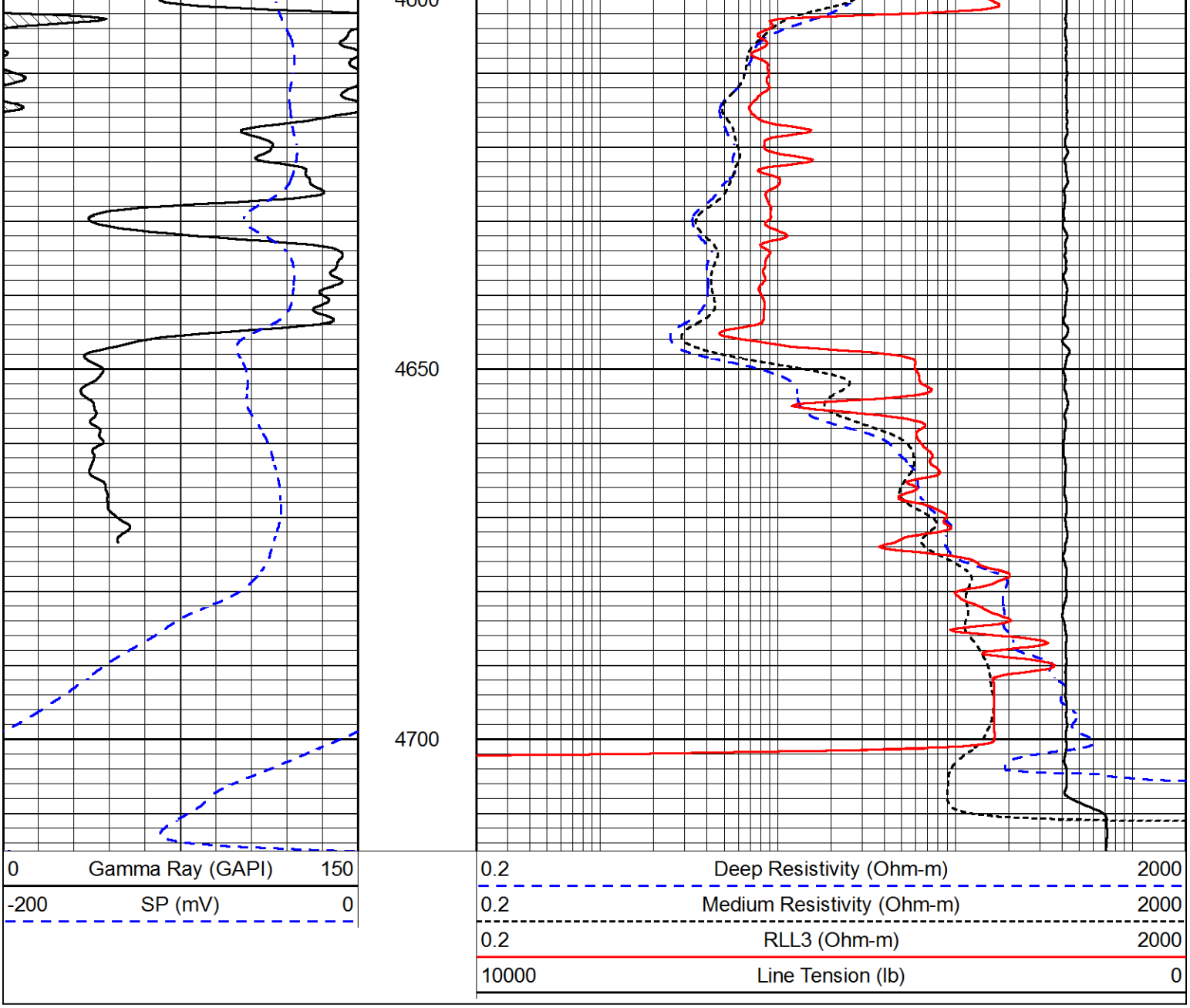
REPEAT SECTION

Database File	concorde_mcdaniel_1-27.db
Dataset Pathname	STKML/pass2.1
Presentation Format	dil
Dataset Creation	Sat Mar 18 22:59:20 2017
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0





Calibration Report

Database File	concorde_mcdaniel_1-27.db
Dataset Pathname	STKML/pass3.7
Dataset Creation	Sat Mar 18 22:53:33 2017

Dual Induction Calibration Report

Serial-Model:	PSI 13-M&W
Calibration Performed:	Wed Mar 01 02:22:22 2017

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.950	-34.000
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.800	-30.500

Microlog Calibration Report

Serial-Model:	PSI-01-PSIML
Performed:	Mon Mar 13 21:58:07 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	36000.0000	-1.3000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	42000.0000	-0.8000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.7500

Compensated Density Calibration Report

Serial-Model: 90-1031-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Mon Mar 13 21:58:19 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5174.18	6425.27	cps
Aluminum	2.665	g/cc	963.17	4037.42	cps

Spine Angle = 74.55 Density/Spine Ratio = 0.522

	Size		Reading
Small Ring	6.00	in	1.83
Large Ring	16.00	in	1.48

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: Thu Mar 2 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: Thu Mar 02 20:45:00 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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Company CONCORDE RESOURCES CORP
Well MCDANIEL #1-27
Field WILDCAT
County LOGAN
State KANSAS