PIONEER
Pioneer Energy Services

DUAL INDUCTION LOG

Company BRITO OIL COMPANY, INC.
Well TAYLOR #33-1
Field WILDCAT
County SHERMAN State KANSAS
Location: API #: 15-181-20633-00-00
1690' FSL & 1208' FEL
SEC 33 TWP 6S RGE 37W

Other Services: CNL/CDL, MEL

Permanent Datum: GROUND LEVEL Elevation 3457'
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING

Elevation: K.B. 3462', D.F. N/A, G.L. 3457'

Company BRITO OIL COMPANY, INC.
Well TAYLOR #33-1
Field WILDCAT
County SHERMAN
State KANSAS

Date	2/14/2020			
Run Number	ONE			
Depth Driller	5100'			
Depth Logger	5104'			
Bottom Logged Interval	5103'			
Top Log Interval	380'			
Casing Driller	8.625" @ 391'			
Casing Logger	391'			
Bit Size	7.875"			
Type Fluid in Hole	CHEMICAL			
Salinity,ppm CL	5500			
Density / Viscosity	9.4 / 57			
pH / Fluid Loss	10.5 / 8.8			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	0.70 @ 67			
Rmf @ Meas. Temp	0.53 @ 67			
Rmc @ Meas. Temp	0.95 @ 67			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	0.37 @ 127			
Operating Rig Time	3 HOURS			
Max Rec. Temp. F	127			
Equipment Number	P-108			
Location	HAYS			
Recorded By	IAN MABB			
Witnessed By	BRAD RINE			

<<< Fold Here >>>

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, KS.
9 MILES NORTH TO RD X,
4 MILES WEST, NORHT INTO 1MILE

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: IAN MABB	Primary Witness: BRAD RINE
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

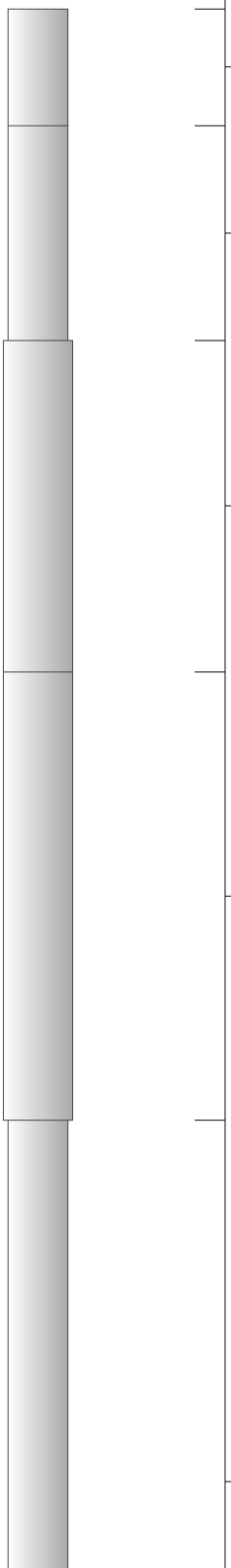
DatabaseC:\ProgramData\Warrior\Data\brito_taylor_33_1.db
Dataset field/well/stackmel/pass3.1/_vars_

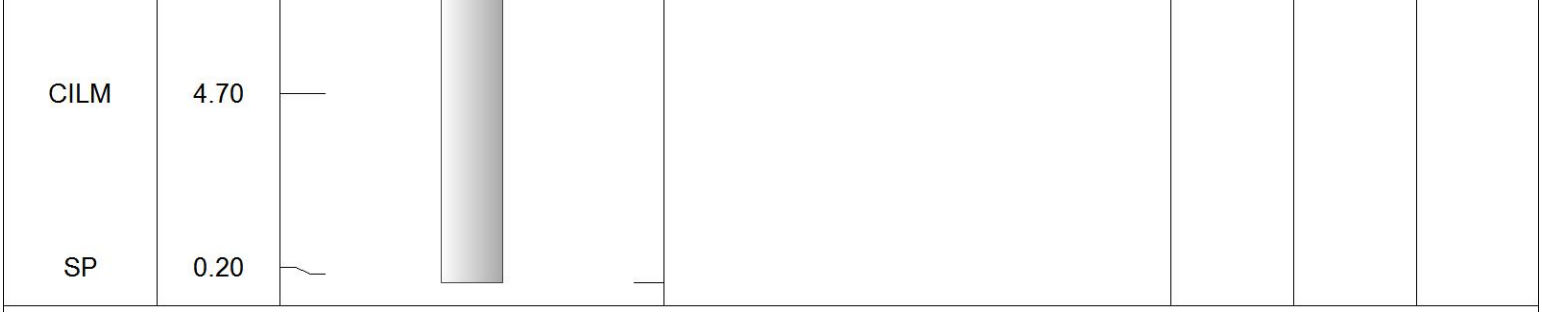
Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	127	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	4	358	0	Off	5104

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			GR-M&W (89-M&W)	3.00	3.50	50.00
GR	44.50					
CNLSC	41.40		CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	40.65					
			CDL-M&W (934-229)	8.50	4.00	250.00
LSD	32.35					
DCAL	32.33					
SSD	31.85					
			ML-PSI UDM ML (UDM-01) Stackable Microlog Tools	11.50	4.00	215.00
MCAL	20.87					
MI	20.87					
MN	20.87					
RLL3	15.80					
RLL3F	15.79					
			DIL-M&W (55-222)	18.50	3.50	220.00
CILD	8.00					



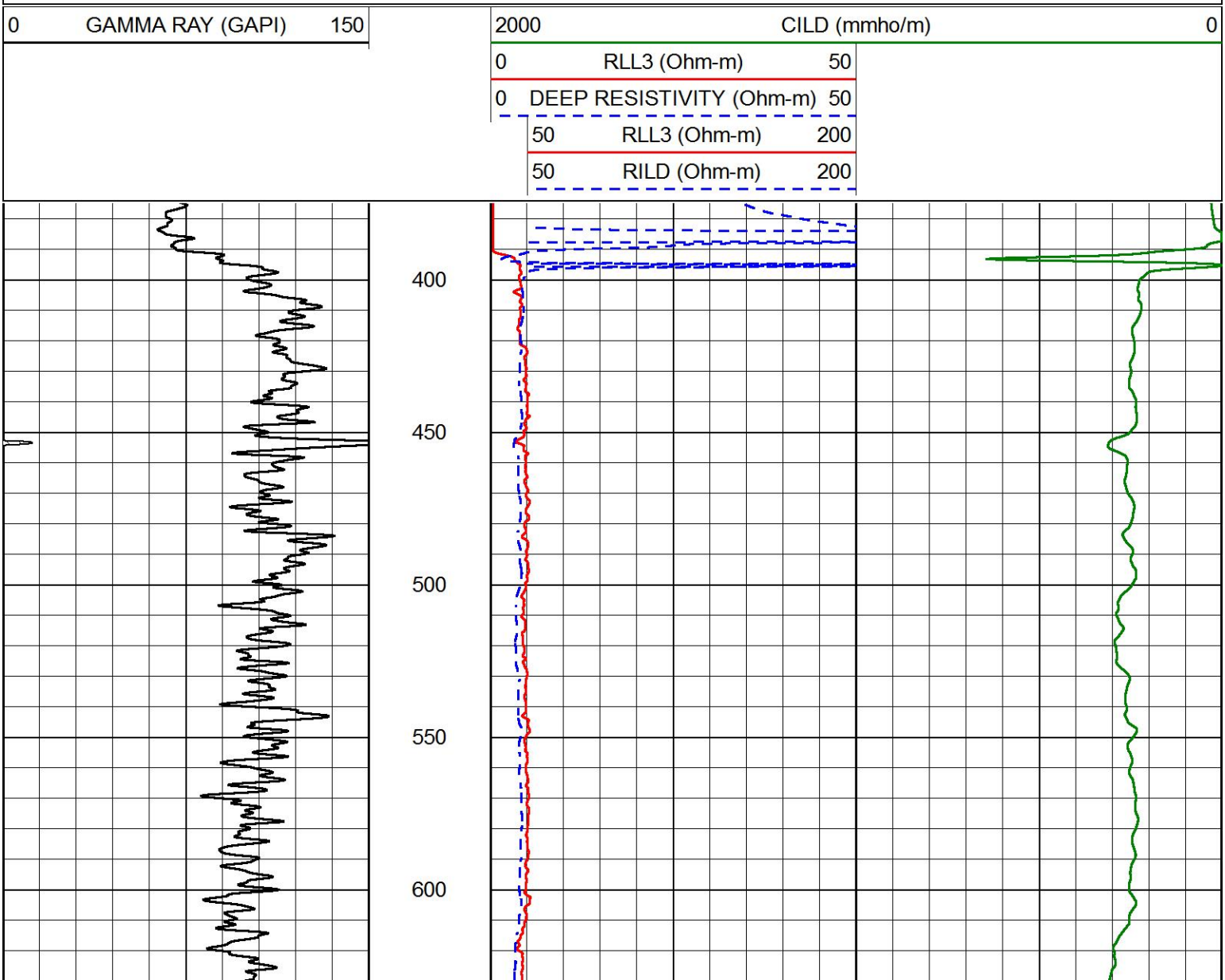


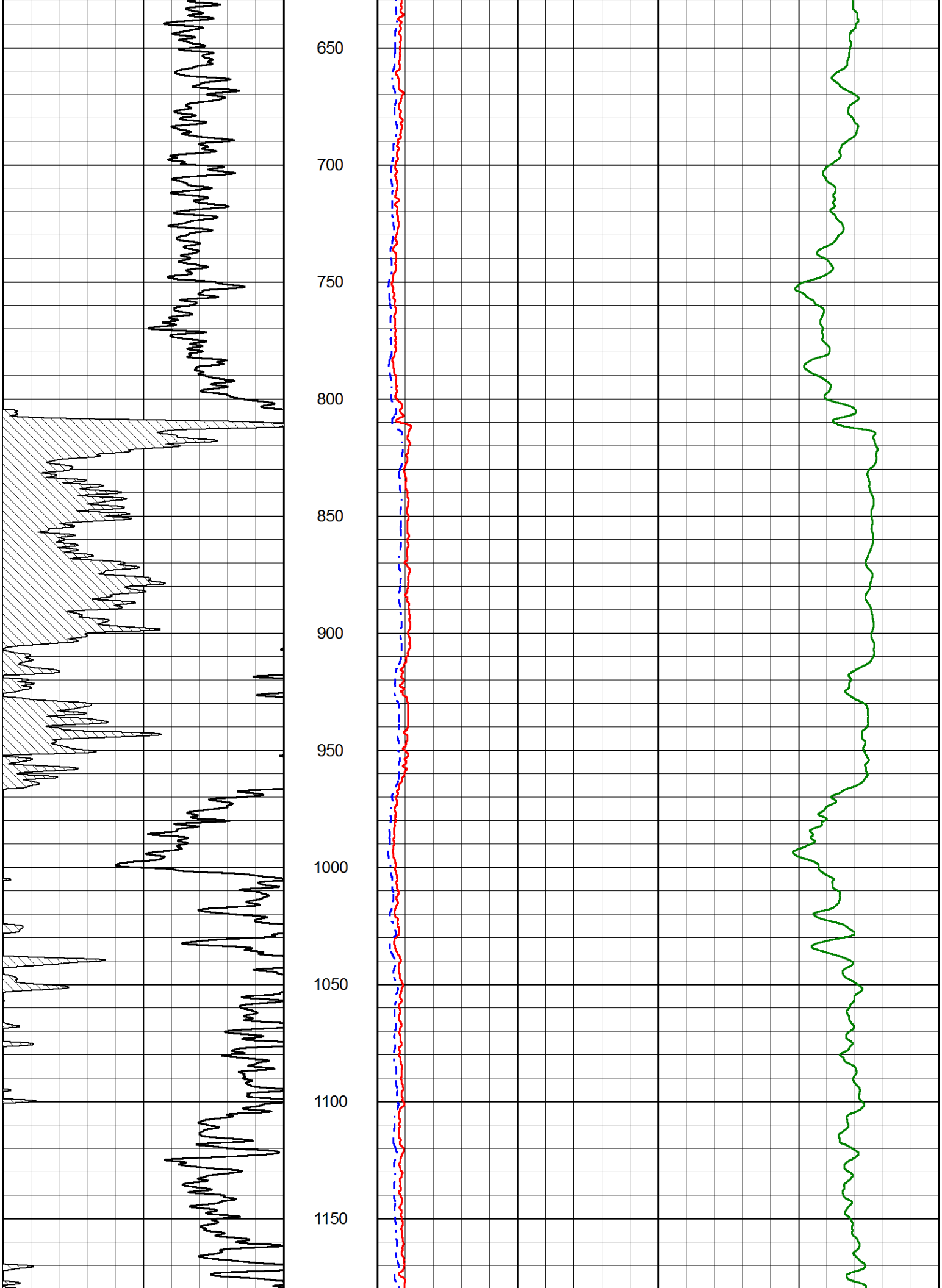
Dataset: brito_taylor_33_1.db: field/well/stackmel/pass3.1
Total length: 47.00 ft
Total weight: 835.00 lb
O.D.: 4.00 in

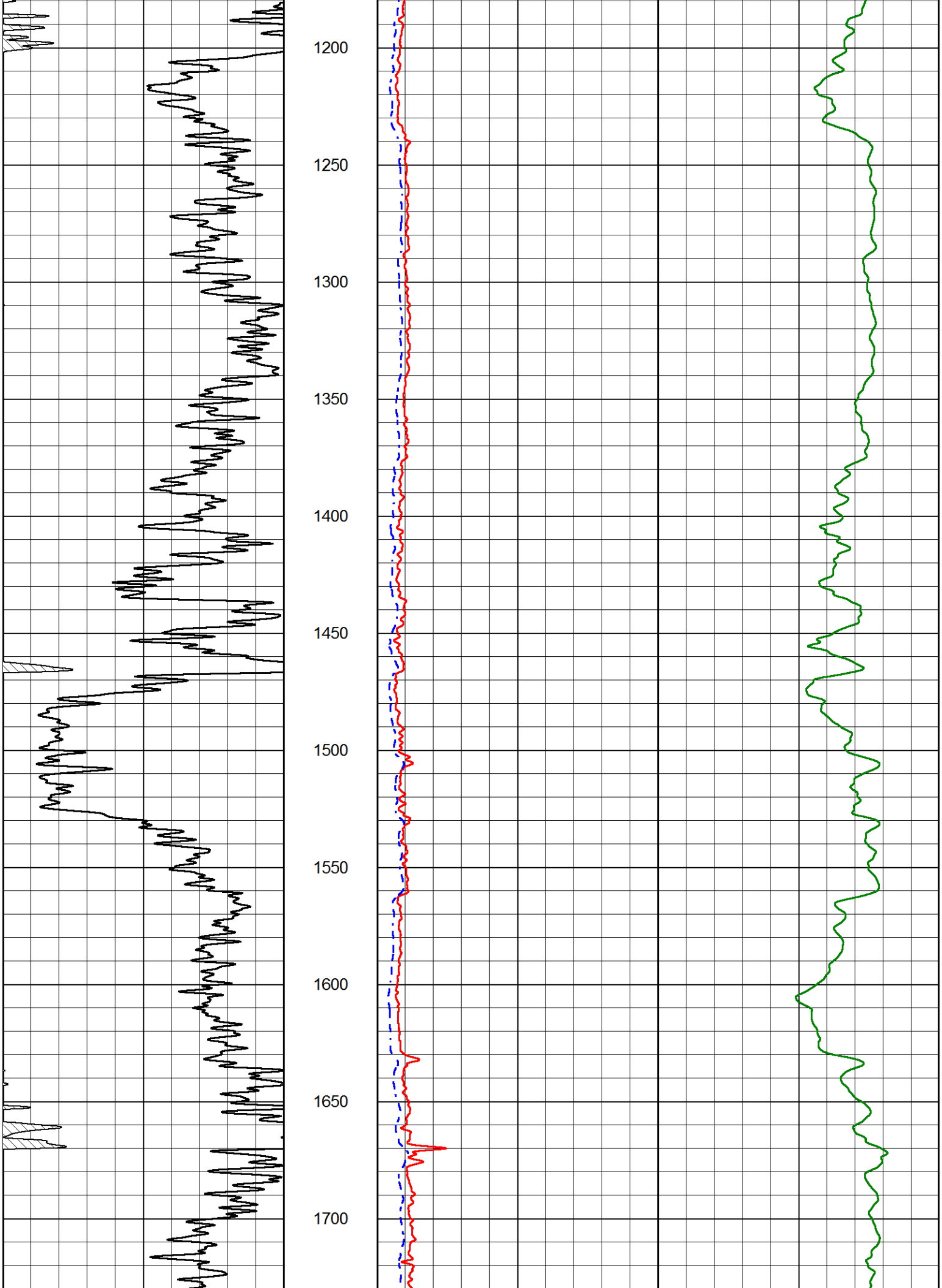
PIONEER
Pioneer Energy Services

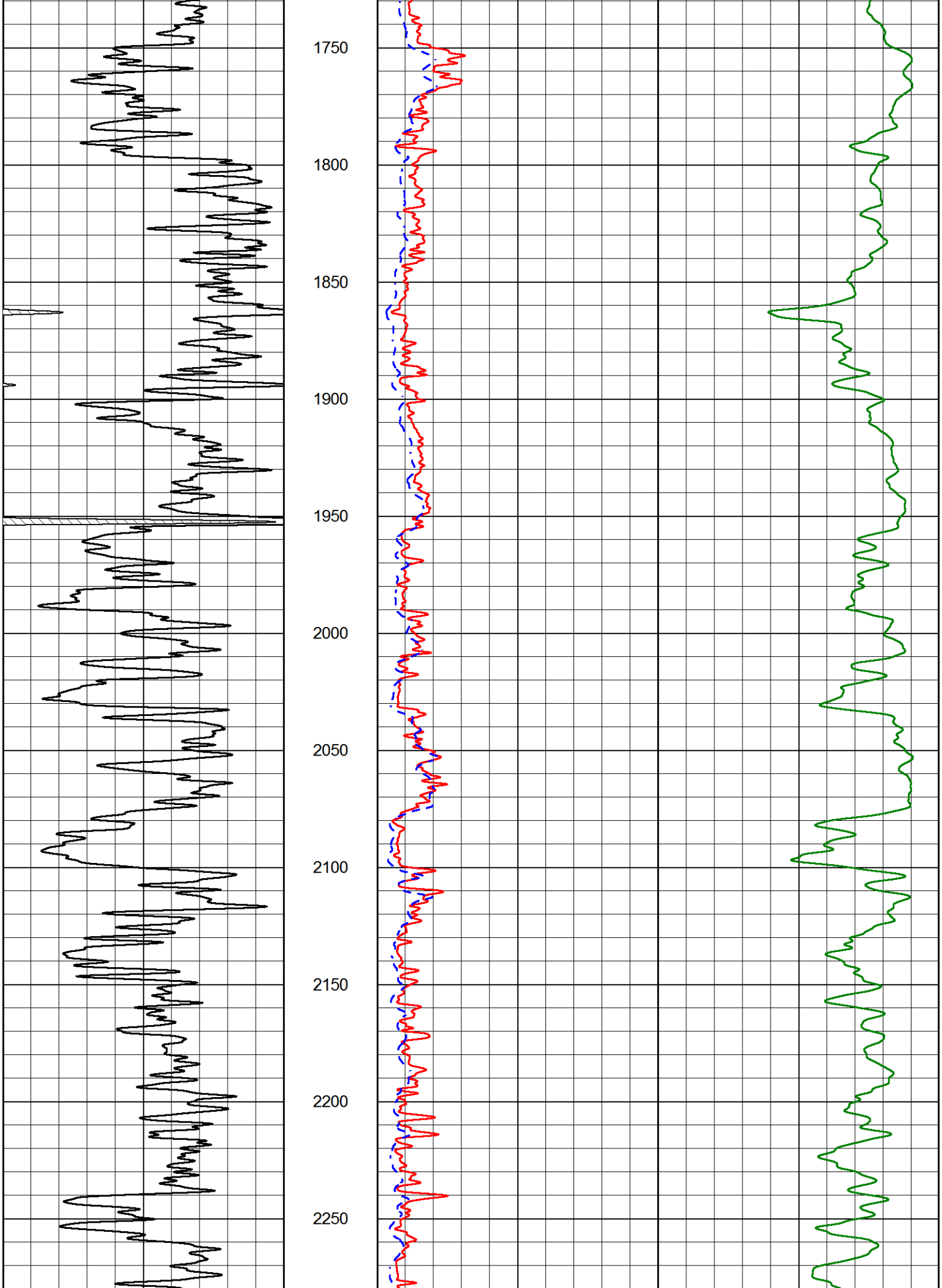
MAIN PASS

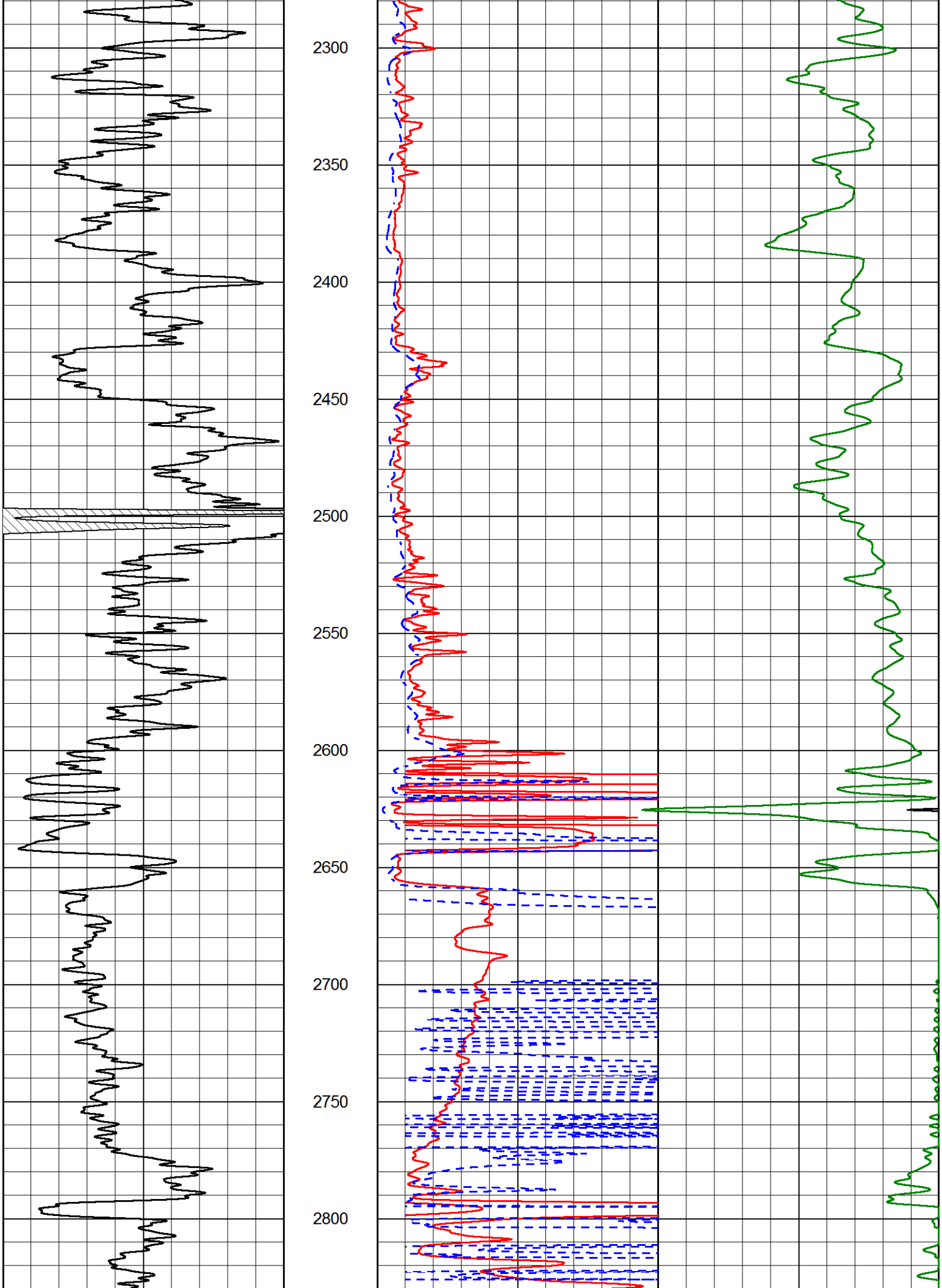
Database File	brito_taylor_33_1.db
Dataset Pathname	stackmel/pass4.1
Presentation Format	dil2in
Dataset Creation	Fri Feb 14 18:02:44 2020
Charted by	Depth in Feet scaled 1:600

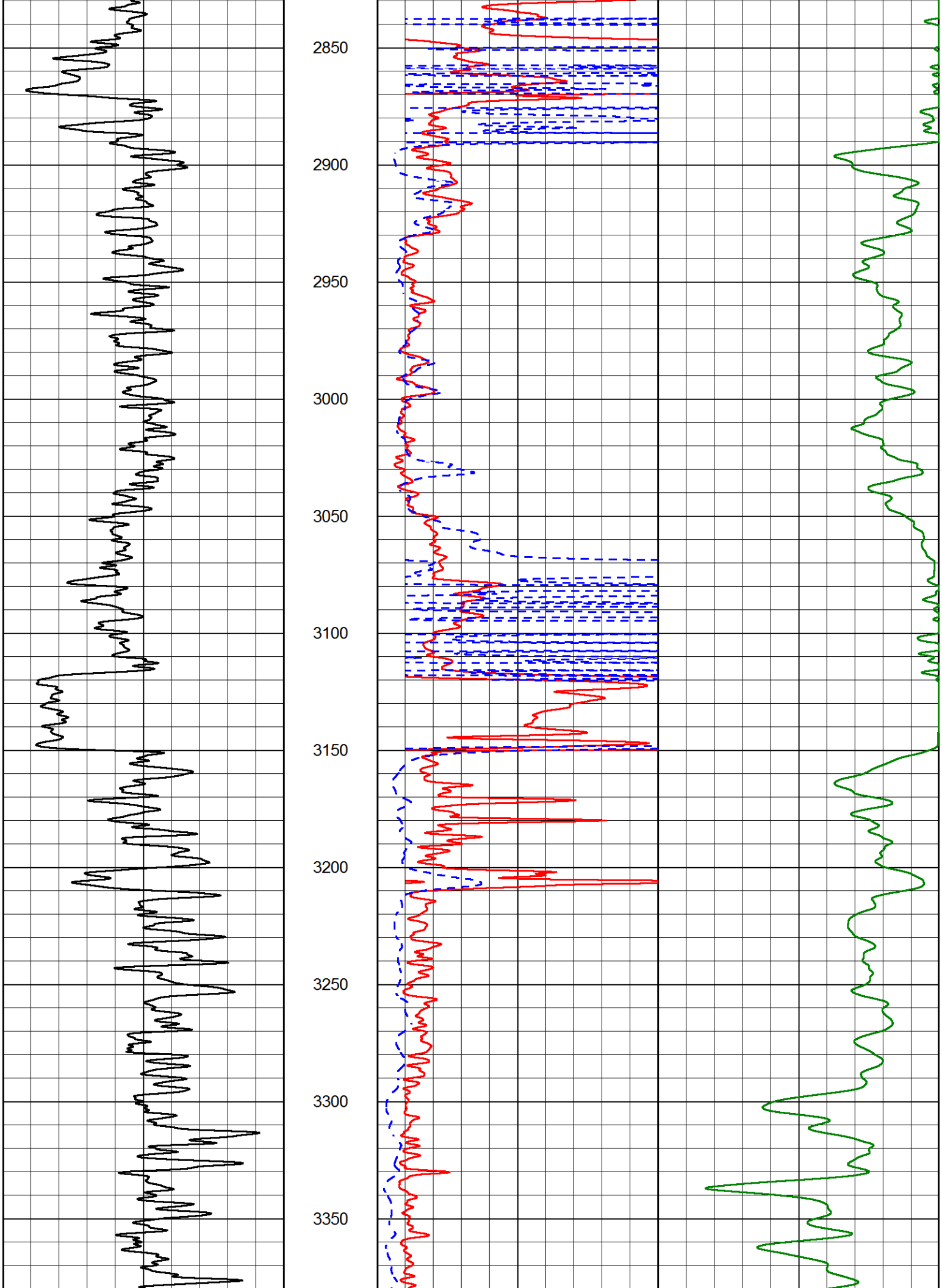


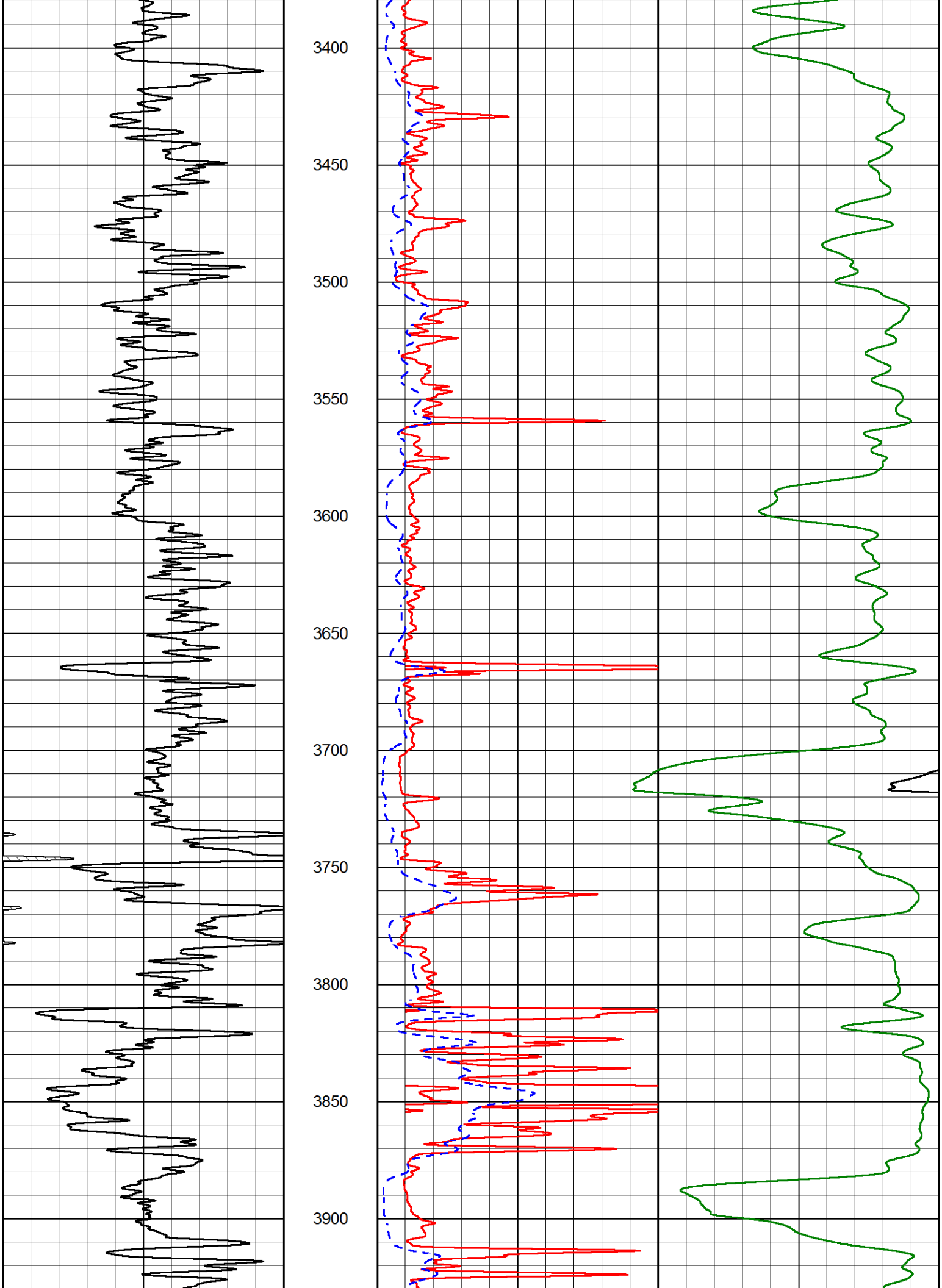

650
700
750
800
850
900
950
1000
1050
1100
1150

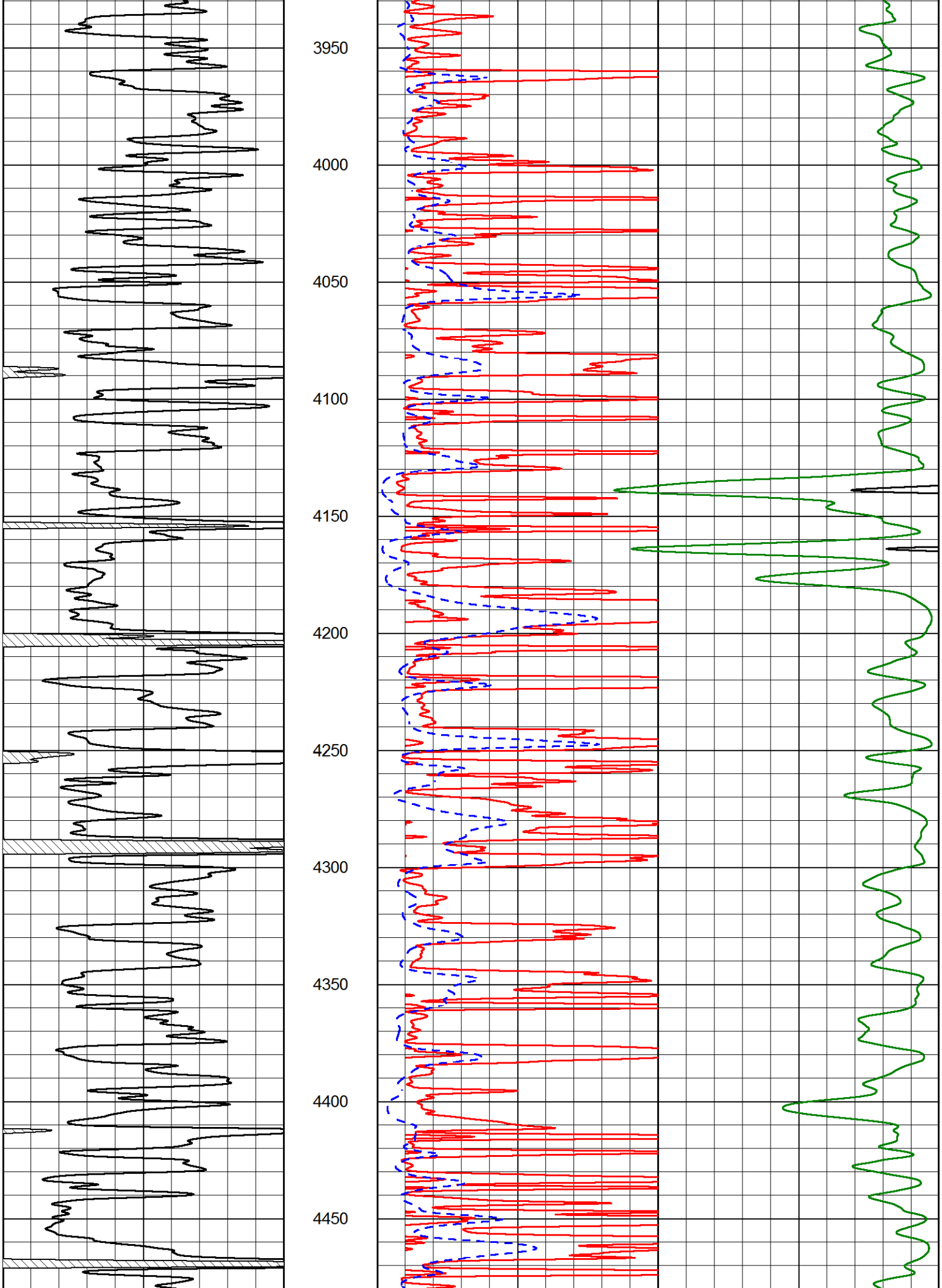

1200
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700

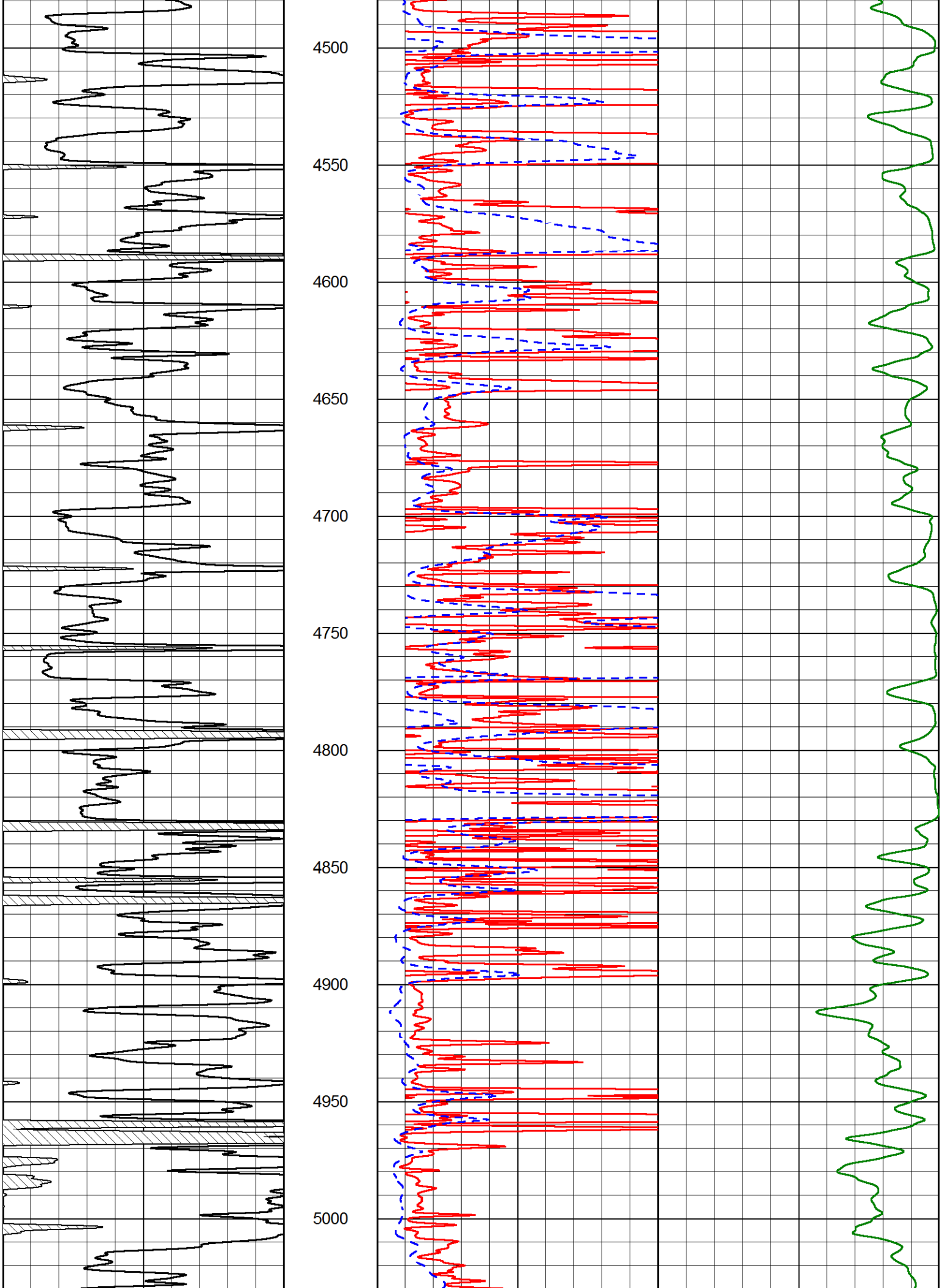

1750
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250

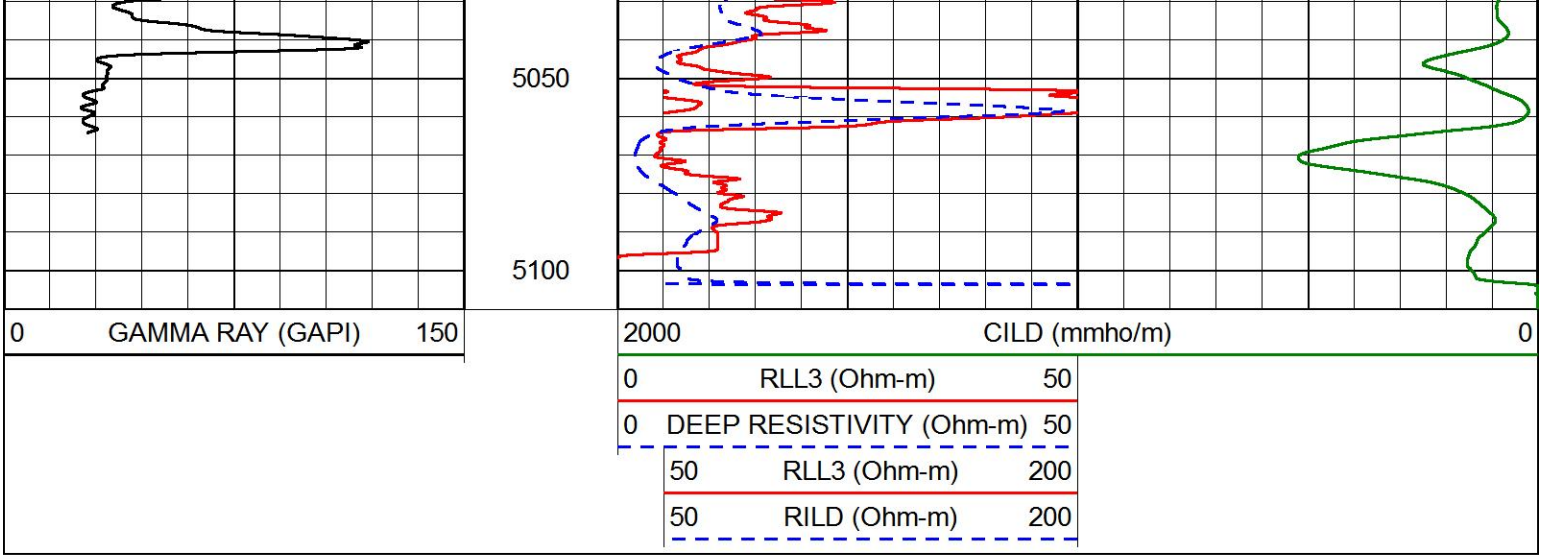

2300
2350
2400
2450
2500
2550
2600
2650
2700
2750
2800


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
4350
4400
4450

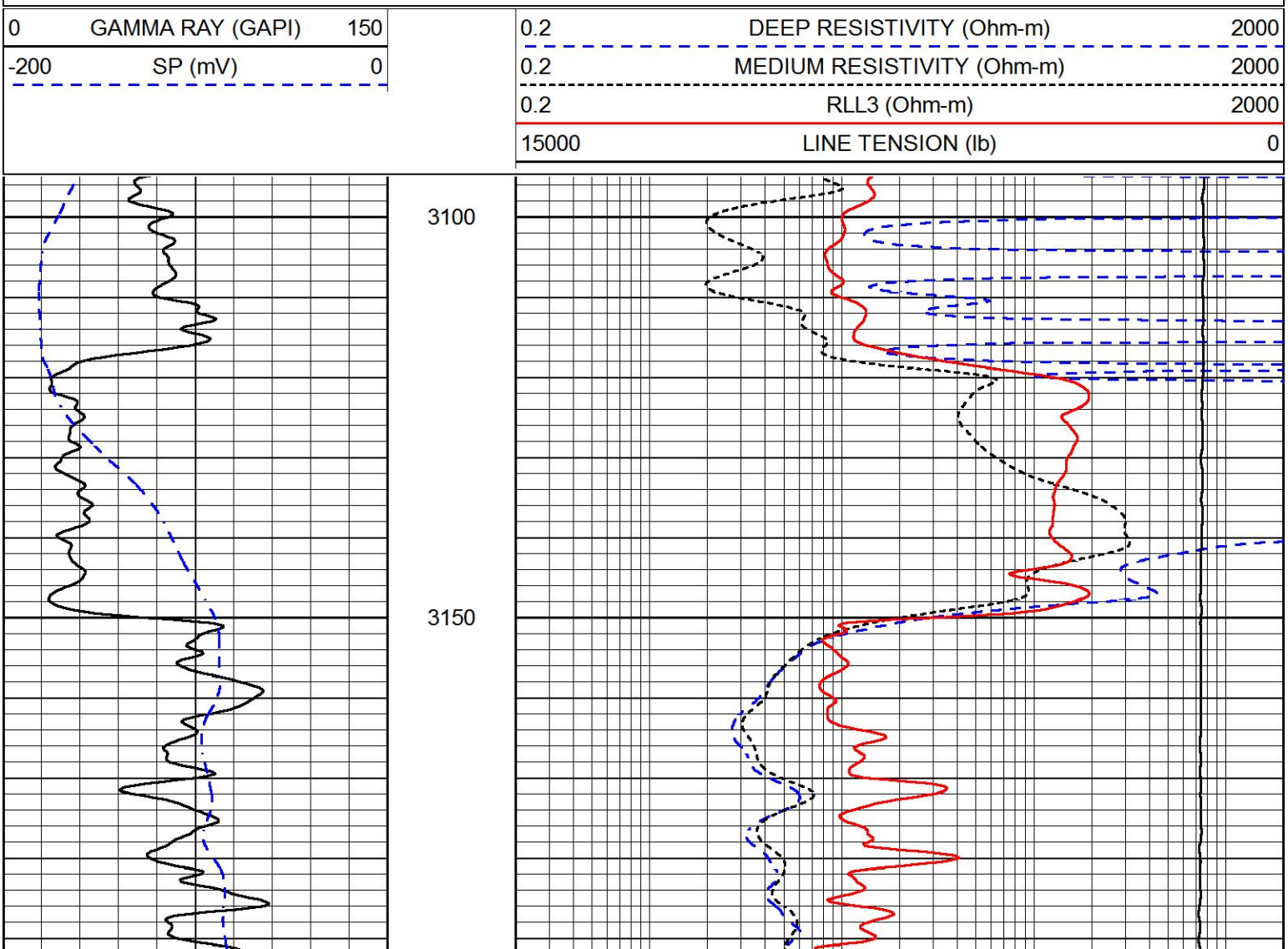

4500
4550
4600
4650
4700
4750
4800
4850
4900
4950
5000

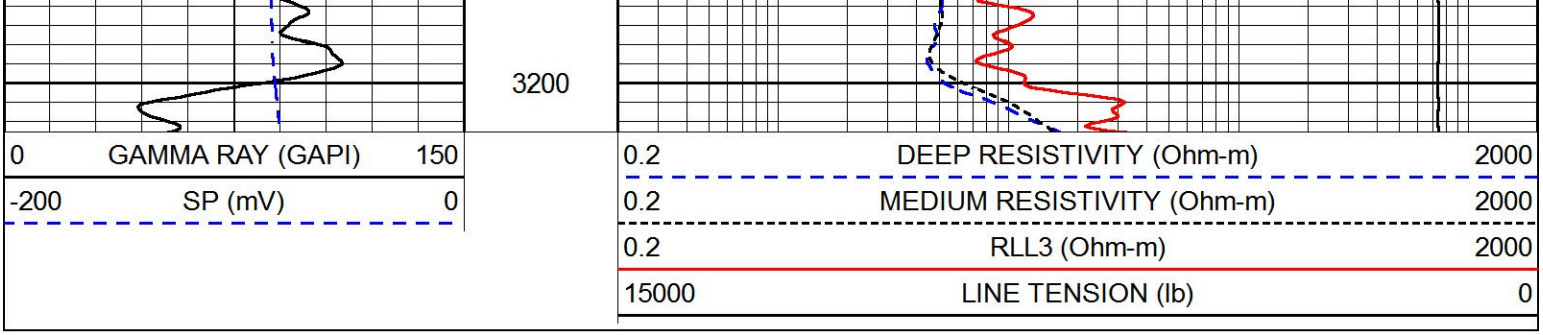


PIONEER
Pioneer Energy Services

MAIN PASS

Database File	brito_taylor_33_1.db
Dataset Pathname	stackmel/pass4.1
Presentation Format	dil
Dataset Creation	Fri Feb 14 18:02:44 2020
Charted by	Depth in Feet scaled 1:240

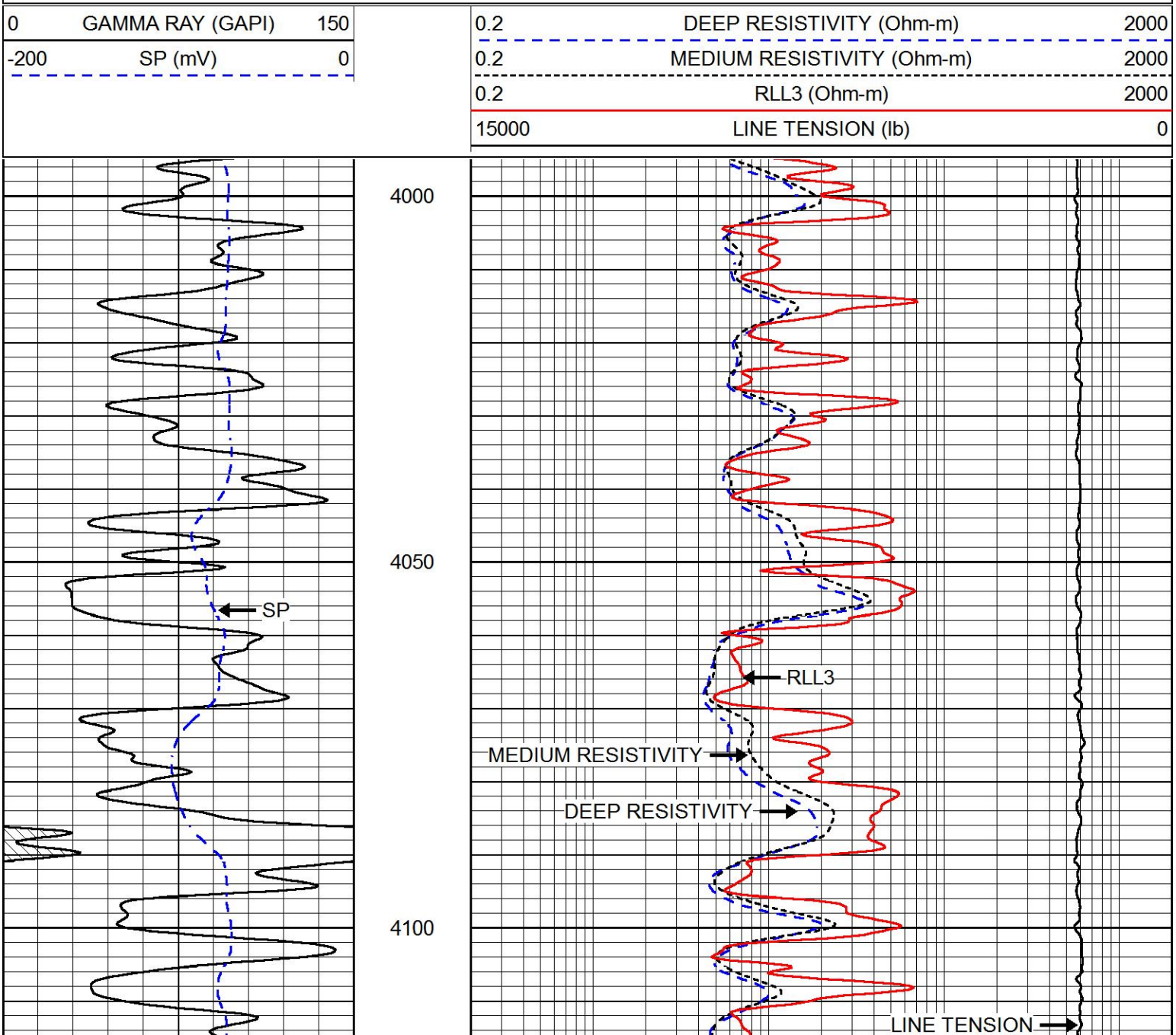


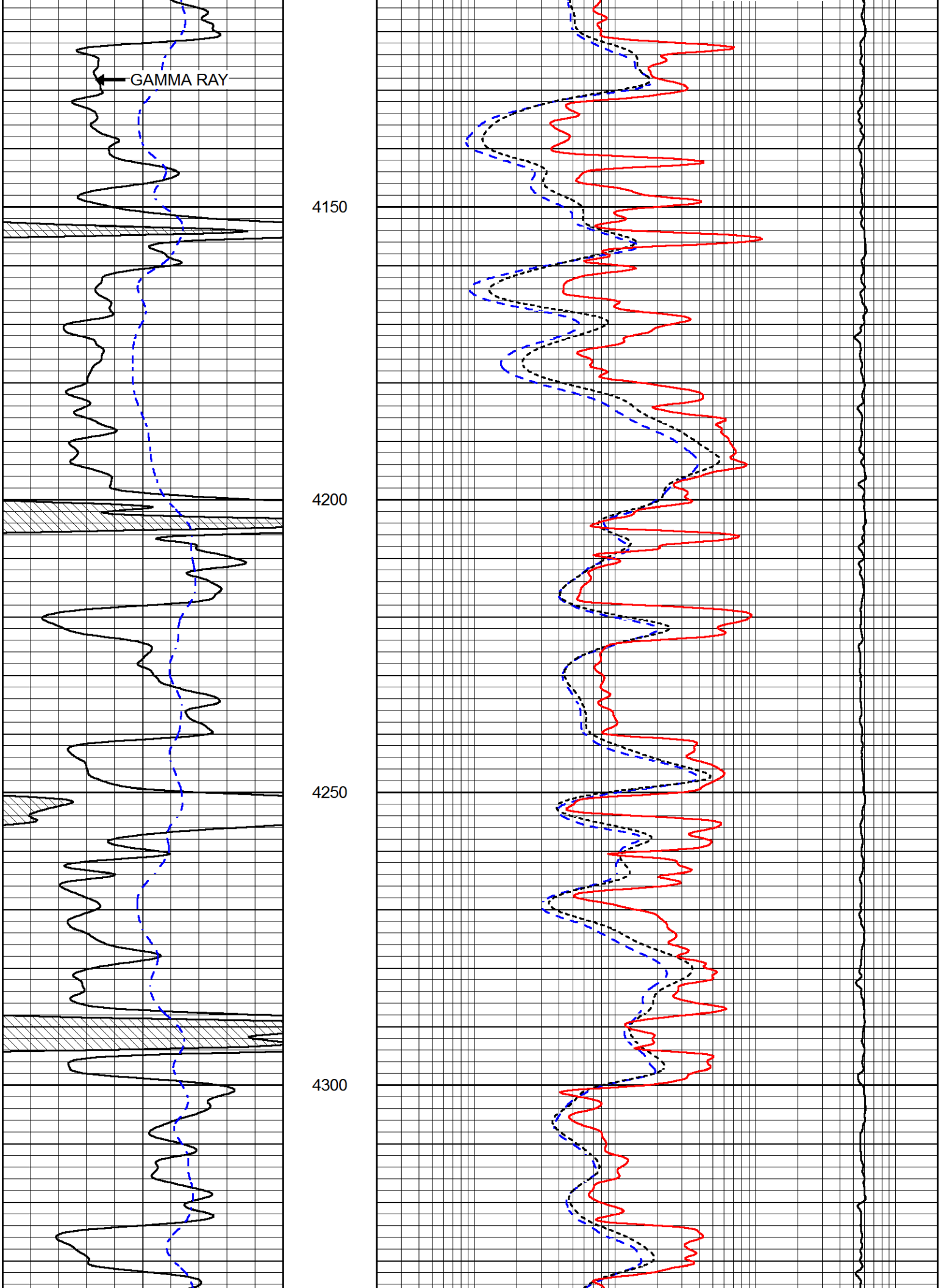


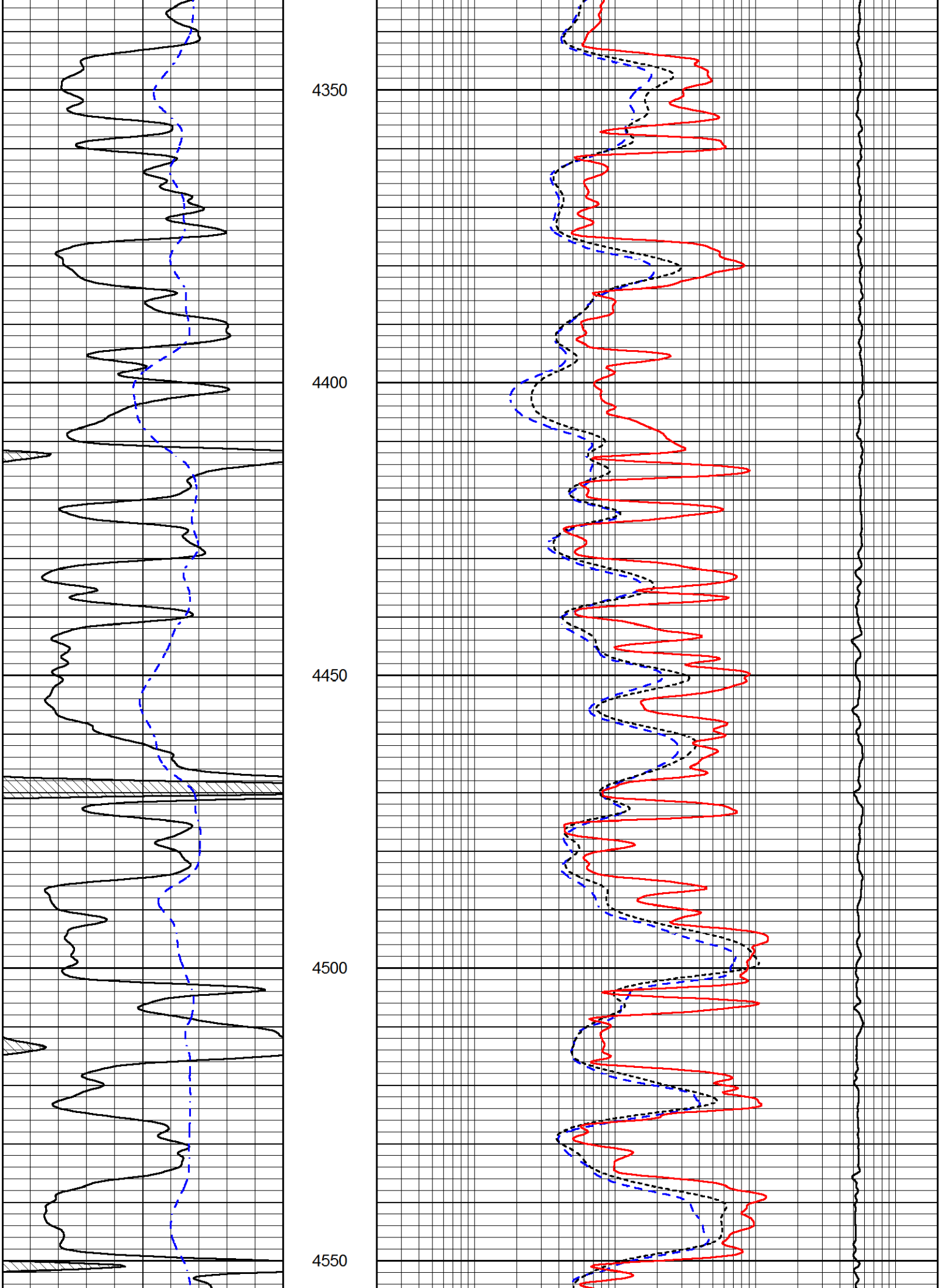
PIONEER
Pioneer Energy Services

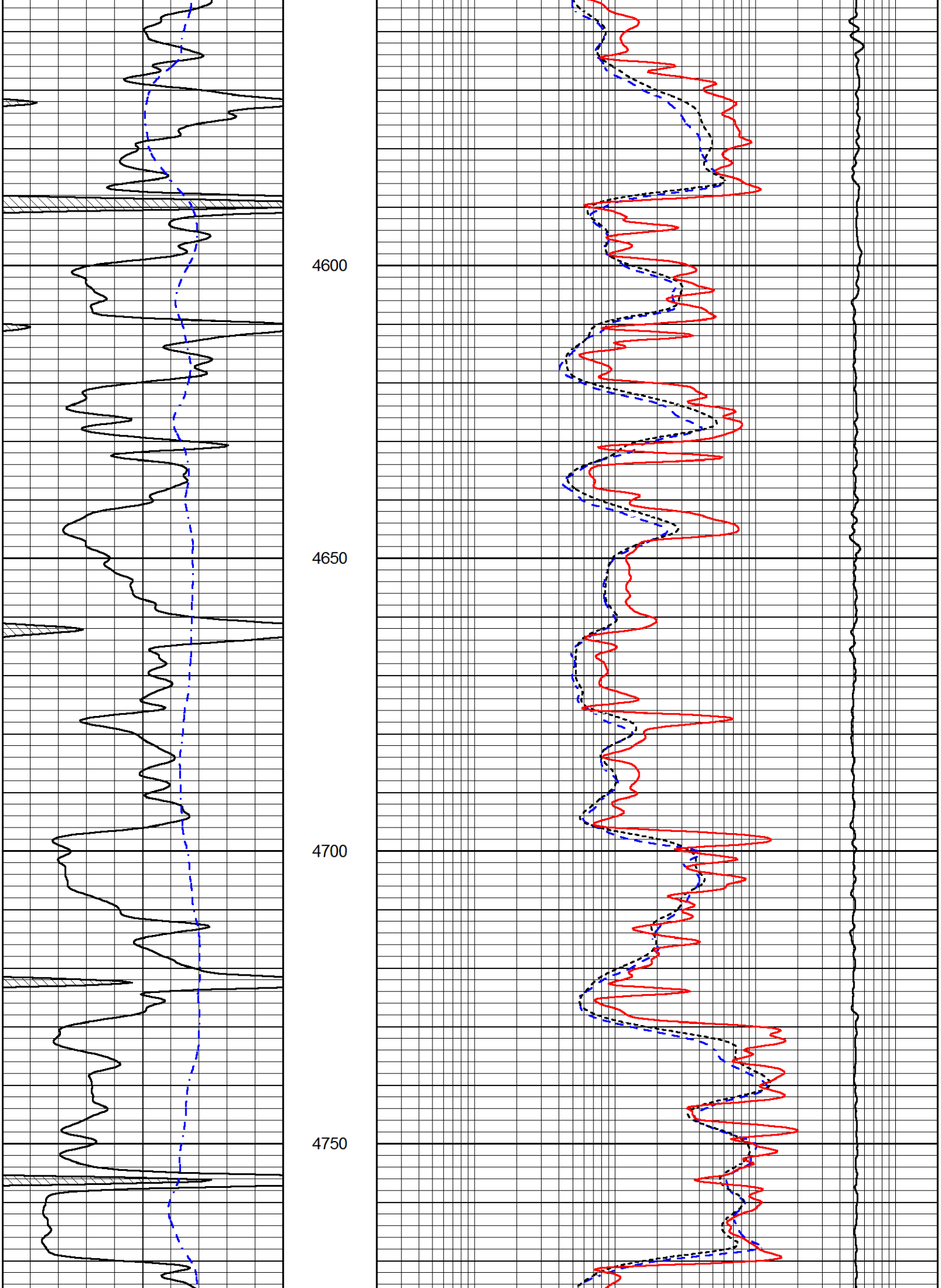
MAIN PASS

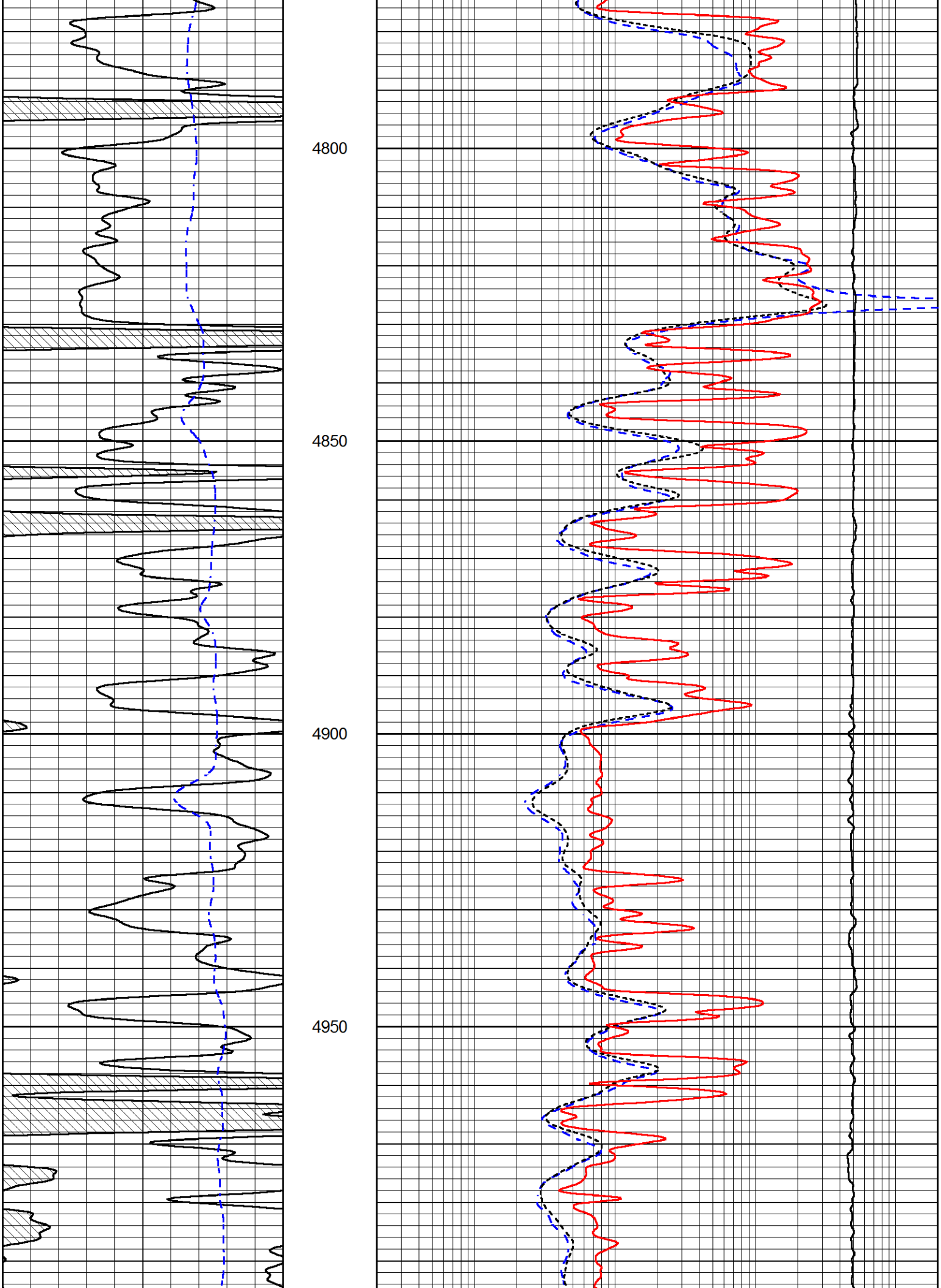
Database File	brito_taylor_33_1.db
Dataset Pathname	stackmel/pass3.1
Presentation Format	dil
Dataset Creation	Fri Feb 14 17:28:05 2020
Charted by	Depth in Feet scaled 1:240

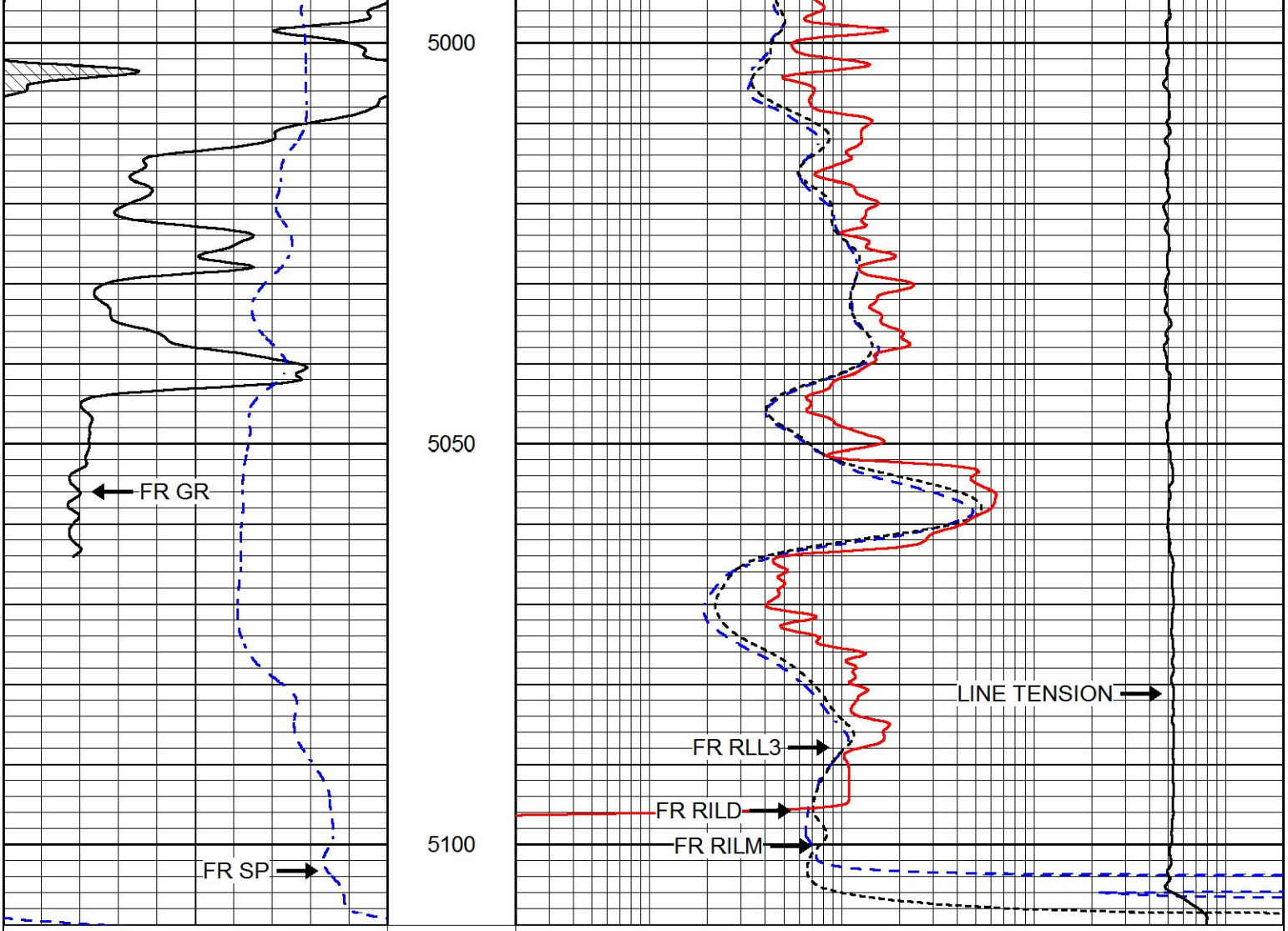



GAMMA RAY
4150
4200
4250
4300


4350
4400
4450
4500
4550


4600
4650
4700
4750


4800
4850
4900
4950



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
15000	LINE TENSION (lb)	0

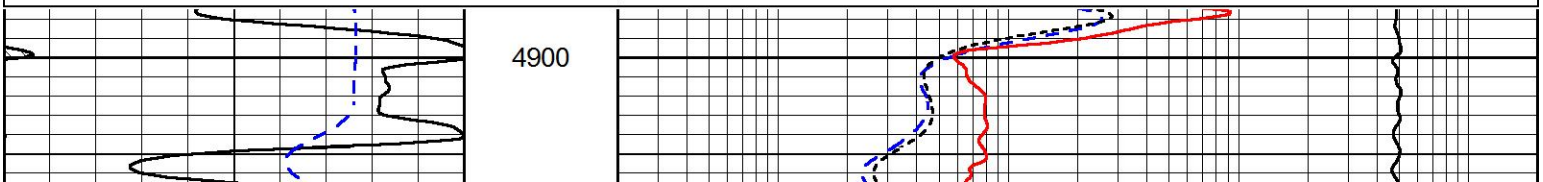
PIONEER
Pioneer Energy Services

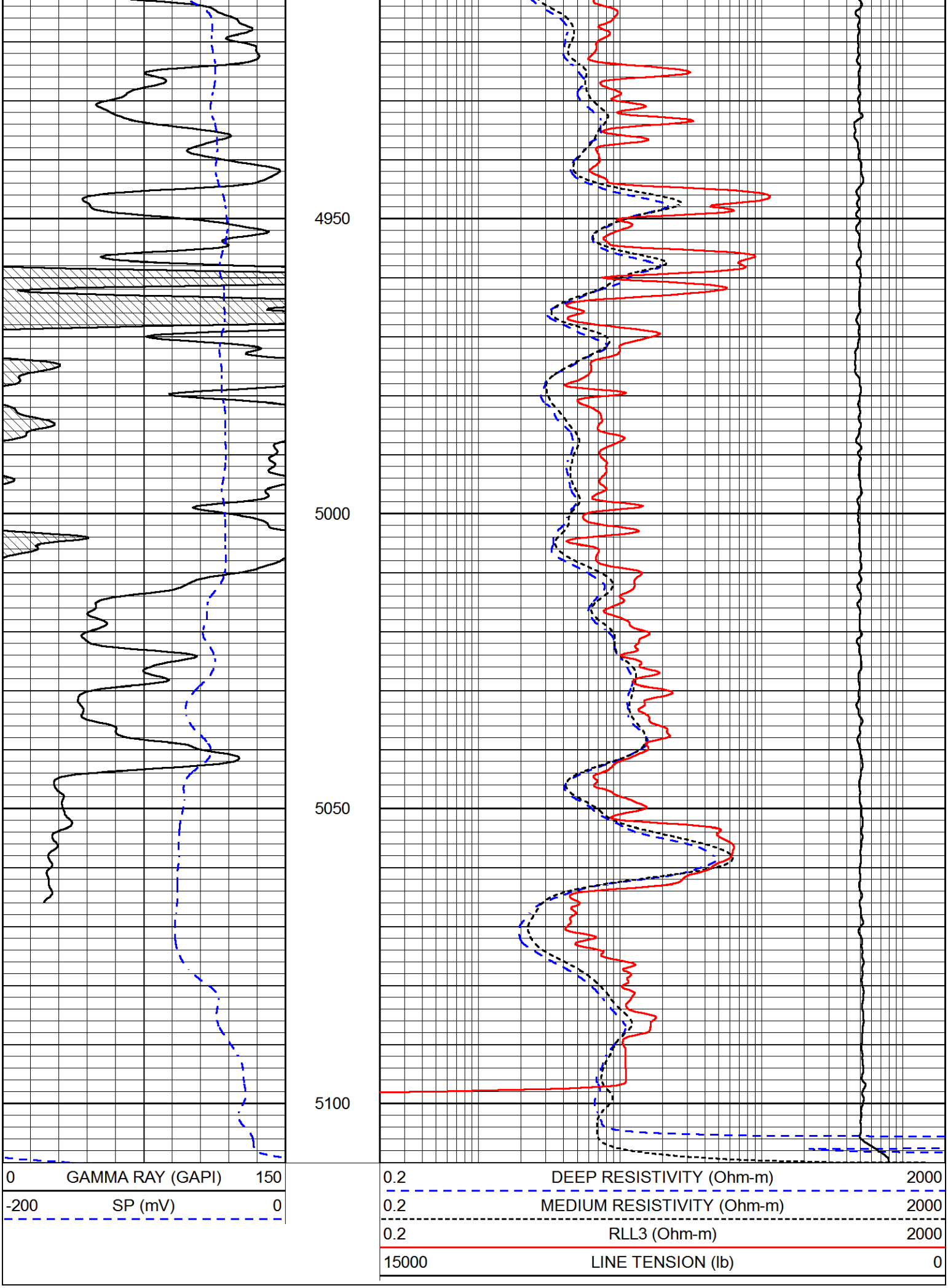
REPEAT SECTION

Database File	brito_taylor_33_1.db
Dataset Pathname	stackmel/pass2.1
Presentation Format	dil
Dataset Creation	Fri Feb 14 17:04:45 2020
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
15000	LINE TENSION (lb)	0




4950
5000
5050
5100
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
15000 LINE TENSION (lb) 0

Calibration Report

Database File	brito_taylor_33_1.db
Dataset Pathname	stackmel/pass3.1
Dataset Creation	Fri Feb 14 17:28:05 2020

Dual Induction Calibration Report

Serial-Model:	55-222-M&W
Calibration Performed:	Tue Dec 10 05:11:10 2019

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.800	mmho/m	0.500	-41.000
Medium	0.000	1348.000	142.000	255.800	mmho/m	0.370	-15.000

Microlog Calibration Report

Serial-Model:	UDM-01-PSI UDM ML
Performed:	Fri May 31 06:10:42 2019

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	23000.0000	0.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	28000.0000	0.0000
Caliper	1.0019	1.2642	8.0000	22.0000	in	53.3774	-47.5000

Compensated Density Calibration Report

Serial-Model:	934-229-M&W
Source / Verifier:	21170B /
Master Calibration Performed:	Thu Dec 19 15:46:53 2019

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3391.68	2392.26	cps
Aluminum	2.670	g/cc	645.86	1568.99	cps

Spine Angle = 75.73

Density/Spine Ratio = 0.535

	Size		Reading
Small Ring	4.00	in	1.39
Large Ring	14.00	in	1.04

Compensated Neutron Calibration Report

Serial Number:	tk10-MW
Tool Model:	M&W
Calibration Performed:	Wed Nov 16 11:21:36 2016

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-M&W	
Tool Model:	M&W	
Calibration Performed:	Tue Dec 10 05:11:34 2019	
Calibrator Value:	1000.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	6.2	cps
Sensitivity:	0.5200	GAPI/cps

PIONEER
Pioneer Energy Services

Company	BRITO OIL COMPANY, INC.
Well	TAYLOR #33-1
Field	WILDCAT
County	SHERMAN
State	KANSAS