MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Chris Batchman, Inc.
Well Herter #5
Field Chase - Silica
County Barton
State Kansas

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Location: API # : 15-009-26297-00-00
SE - NW - SE - SE
710' FSL & 890' FEL
SEC 8 TWP 20S RGE 11W

Other Services
CNL/CDL
MEL/BHCS

Permanent Datum Ground Level Elevation 1775'
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation
K.B. 1784'
D.F. N/A
G.L. 1775'

Date	4/28/2021		
Run Number	One		
Depth Driller	3400'		
Depth Logger	3401'		
Bottom Logged Interval	3400'		
Top Log Interval	250'		
Casing Driller	8.625" @ 265'		
Casing Logger	264'		
Bit Size	7.875"		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	9500		
Density / Viscosity	8.9 46		
pH / Fluid Loss	9.0 10.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.50 @ 60		
Rmf @ Meas. Temp	0.38 @ 60		
Rmc @ Meas. Temp	0.68 @ 60		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	0.27 @ 110		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	110		
Equipment Number	P-24		
Location	HAYS		
Recorded By	D. Schmidt		
Witnessed By	James Musgrove		

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All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline 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.

Ellinwood,
South to SE 30 Rd, 1 7/8 East,
North into

Log Measured From: Kelly Bushing 9 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew	This Log Record Was Witnessed By
Engineer: D. Schmidt	Primary Witness: James Musgrove
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			GR-M&W (233-M&W)	3.00	3.50	50.00
GR	44.50					
CNLSC	41.40		CNT-M&W (207-MW)	5.50	3.50	100.00
CNSSC	40.65					
			CDL-M&W (817-947)	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					
RLL3F	15.80					
RLL3	15.80					
			DIL-PSI HIGH TEMP (952-828)	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					

Dataset: batchman_herter 5.db: field/well/stkml/pass6.1
Total length: 47.00 ft
Total weight: 835.00 lb
O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\batchman_herter 5.db
Dataset field/well/stkml/pass6.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	110	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	0	0	370	60	Off	3401

Variable Description

A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

MIDWEST WIRELINE

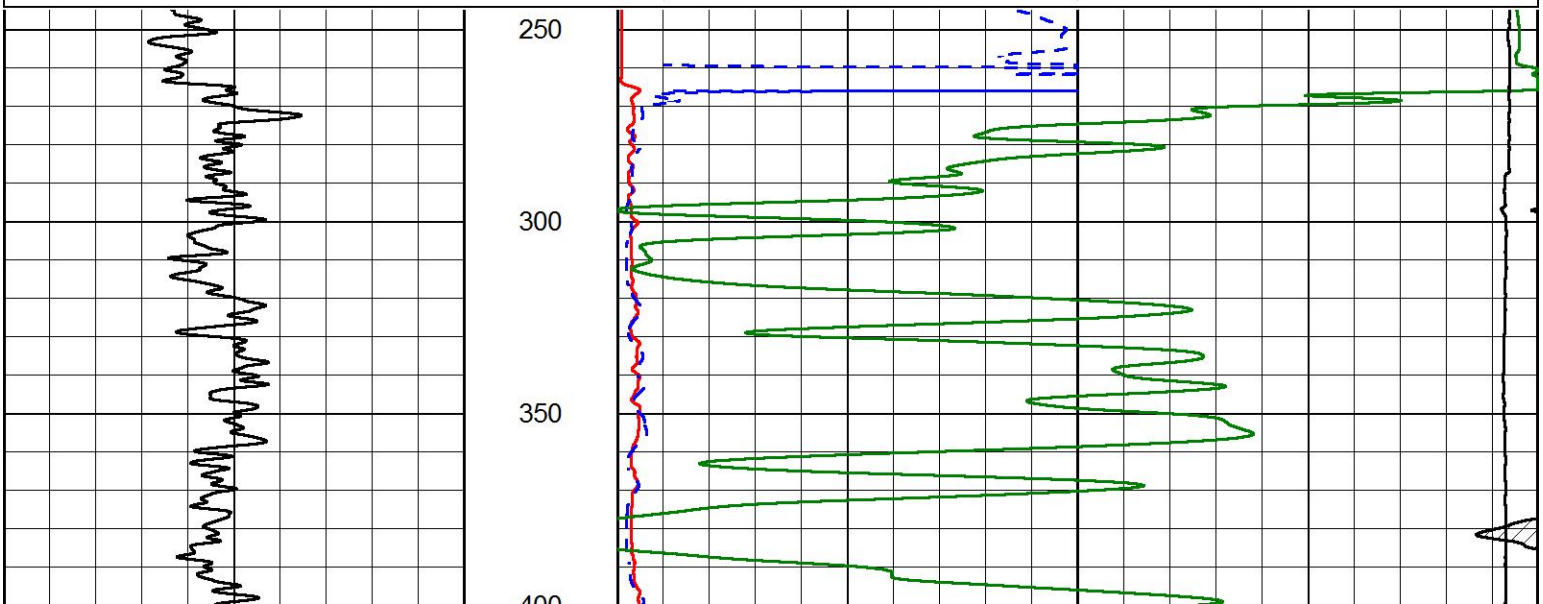
2" SCALE RESISTIVITY

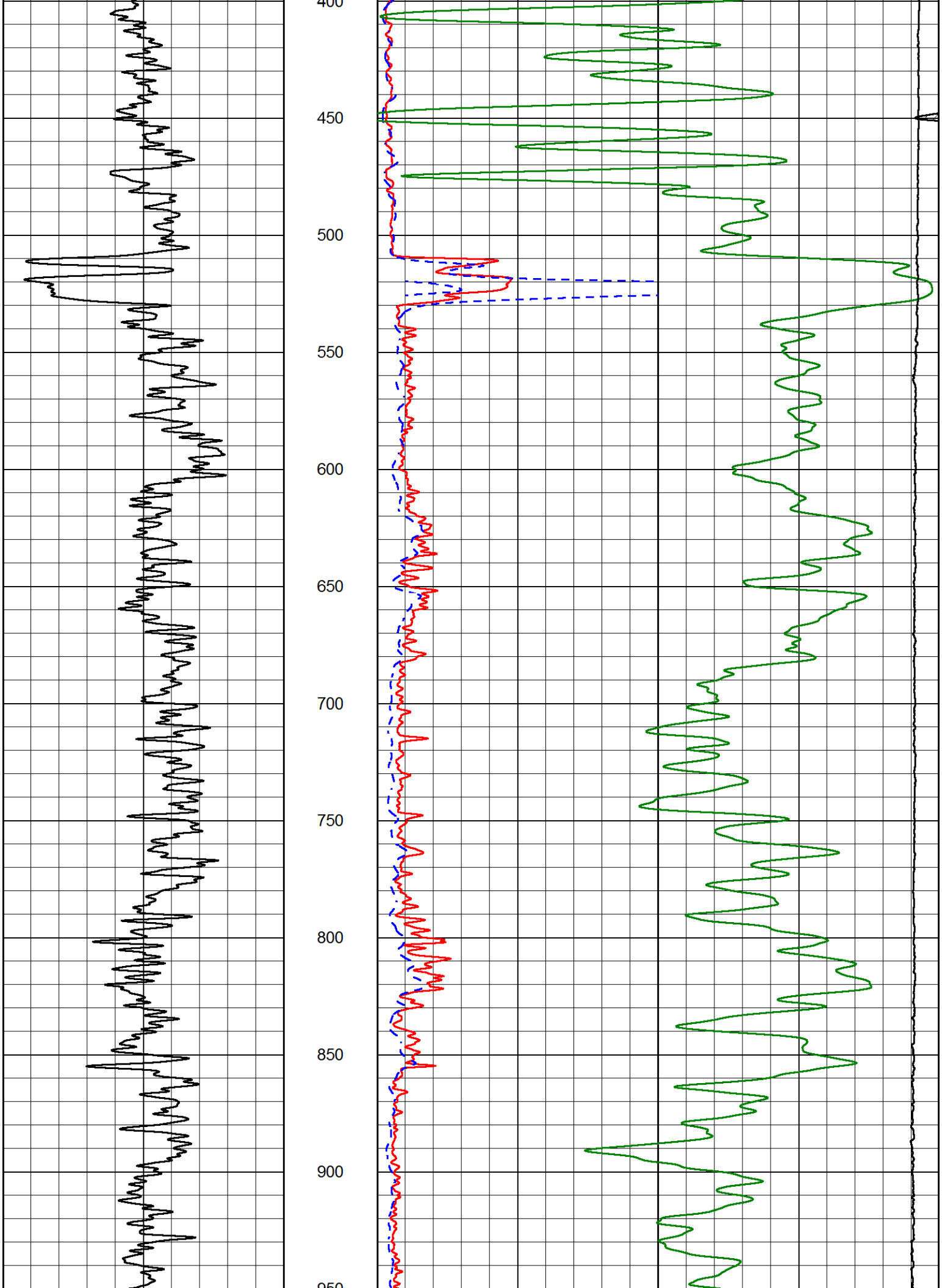
MAIN PASS

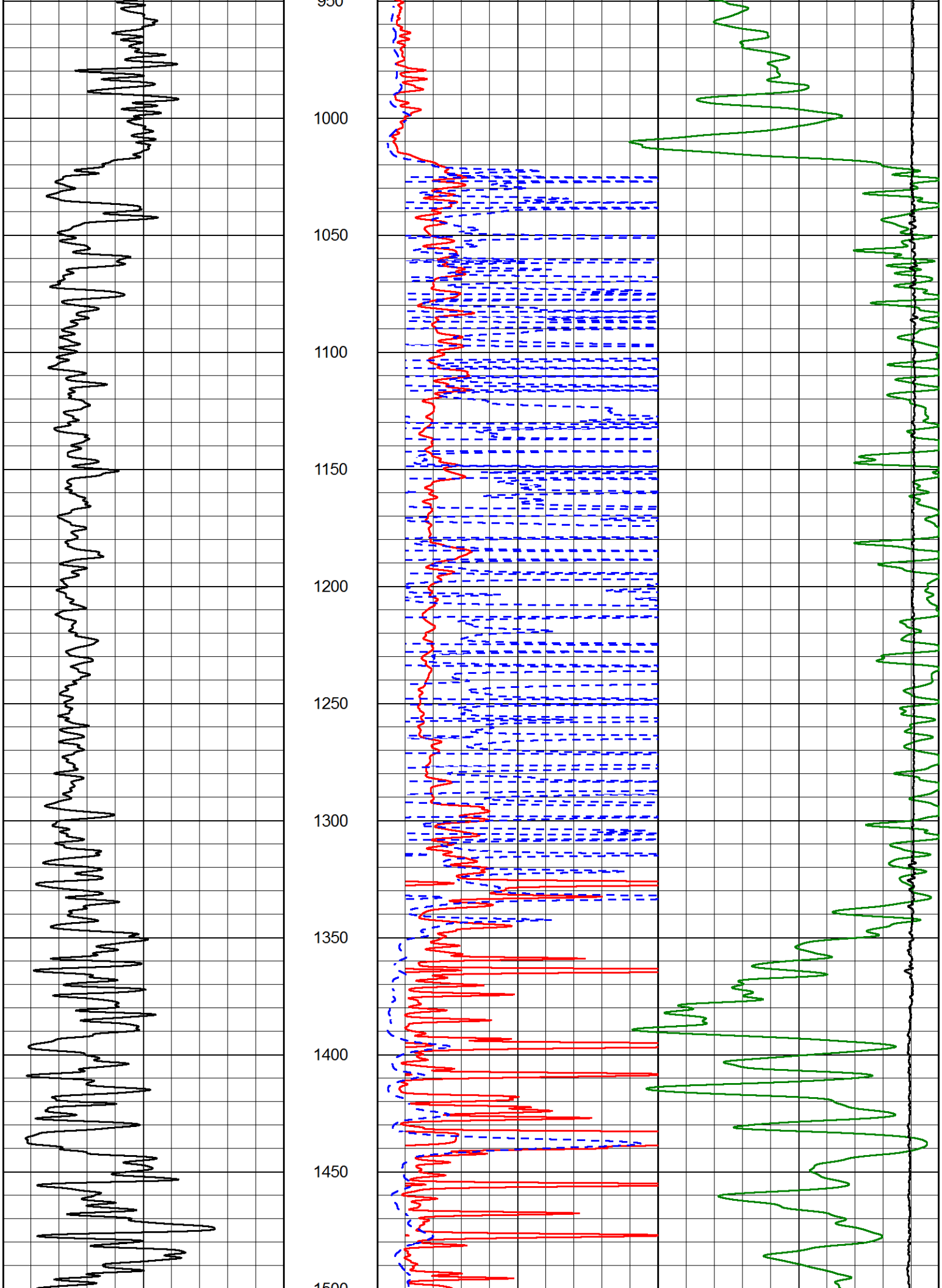
Database File	batchman_herter 5.db
Dataset Pathname	stkml/pass6.1
Presentation Format	_dil2in
Dataset Creation	Wed Apr 28 08:23:45 2021
Charted by	Depth in Feet scaled 1:600

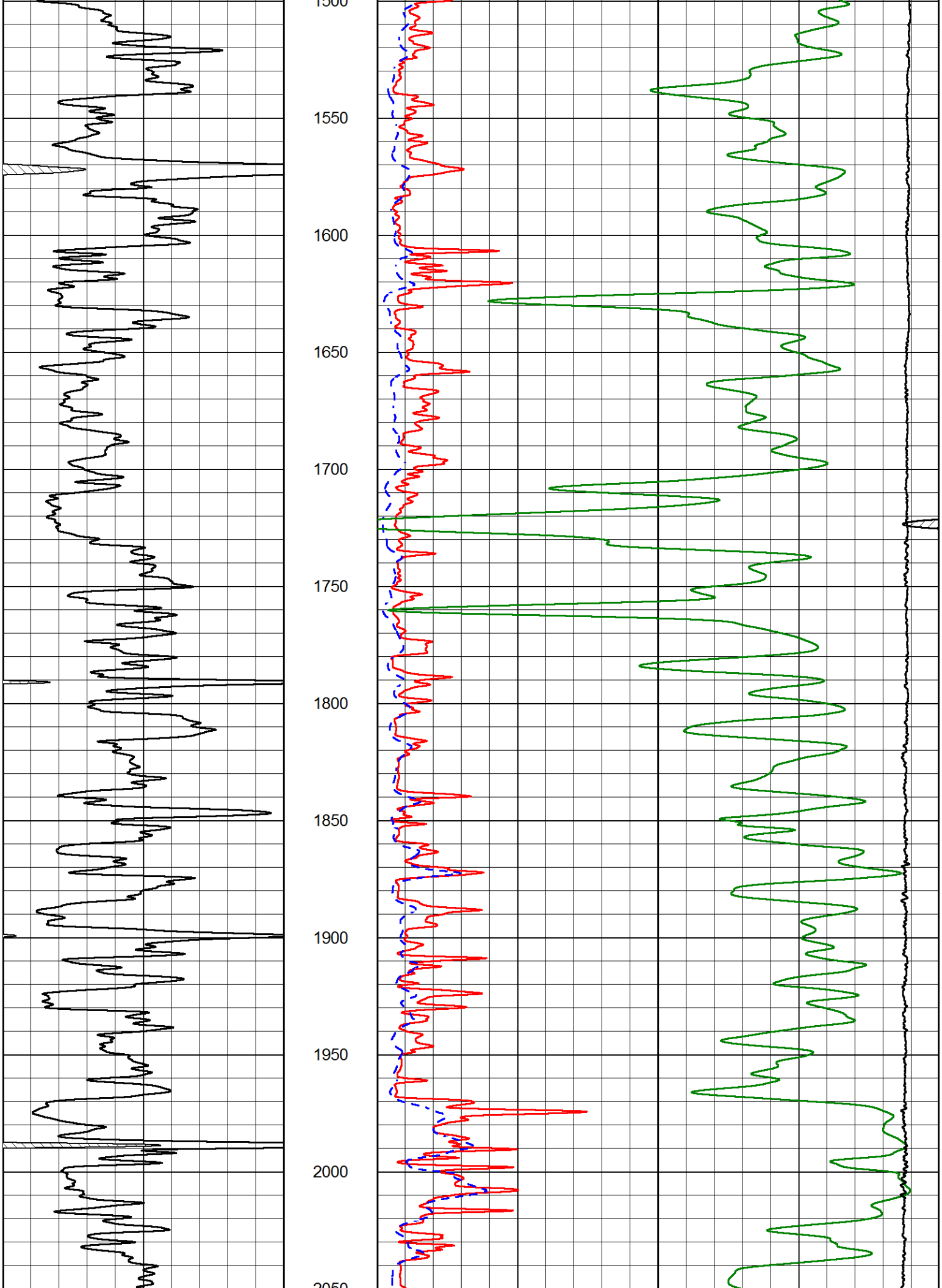
GAMMA RAY
0 (GAPI) 150

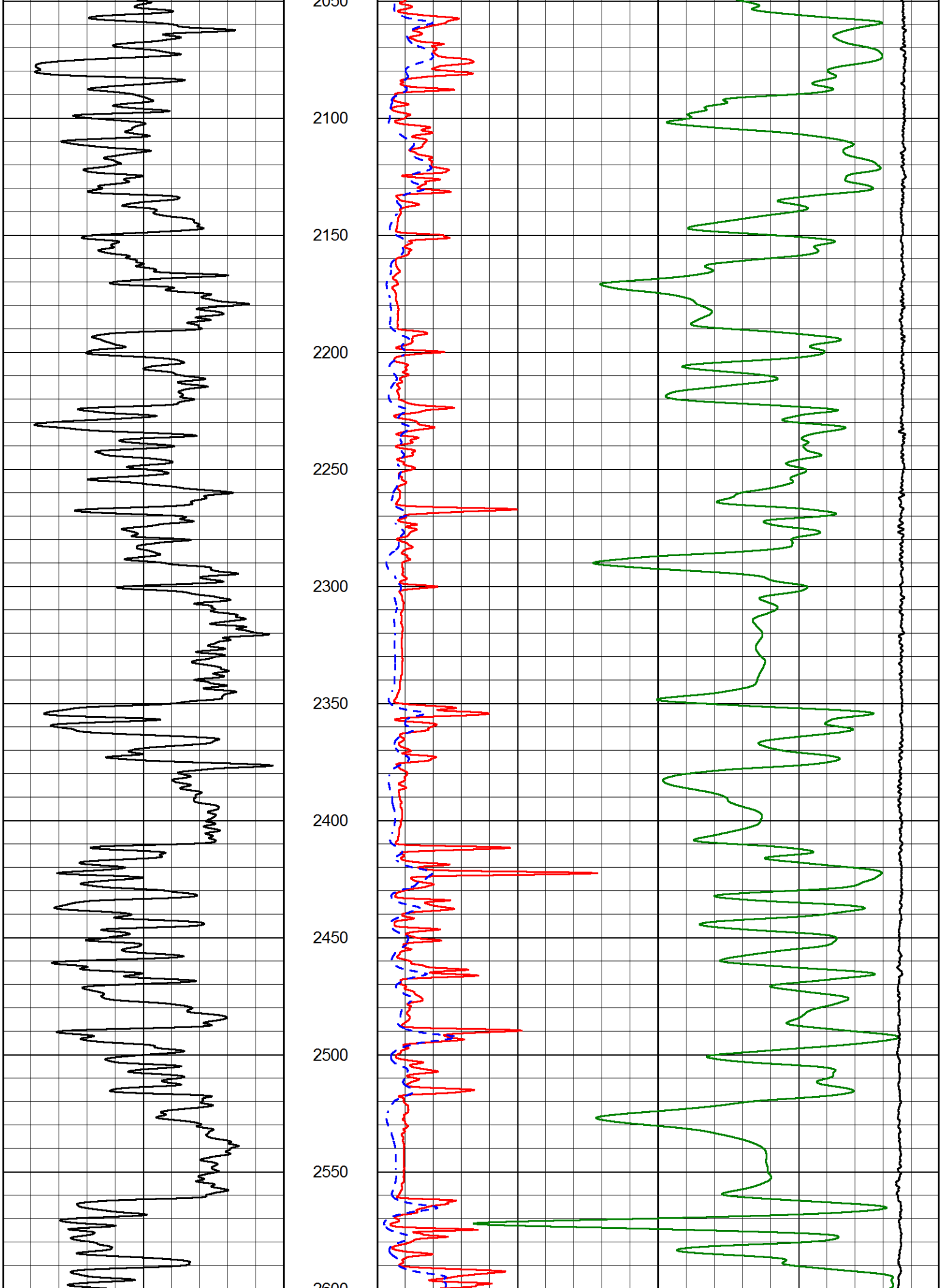
1000 CONDUCTIVITY (mmho/m) 0
15000 Line Tension (lb) 0
0 RLL3 (Ohm-m) 50
0 RILD (Ohm-m) 50
50 RLL3 (Ohm-m) 200
50 Deep Resistivity (Ohm-m) 200

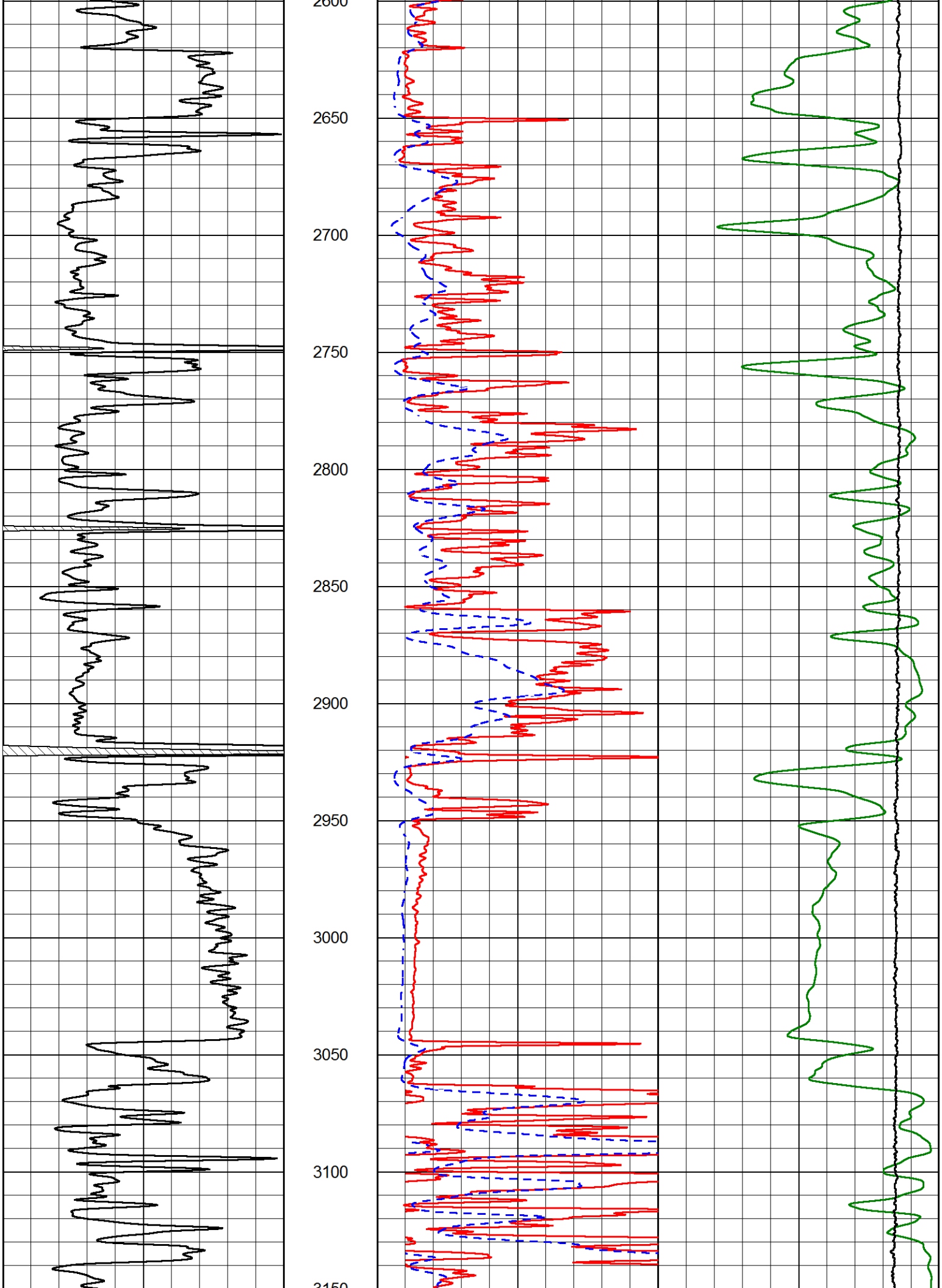


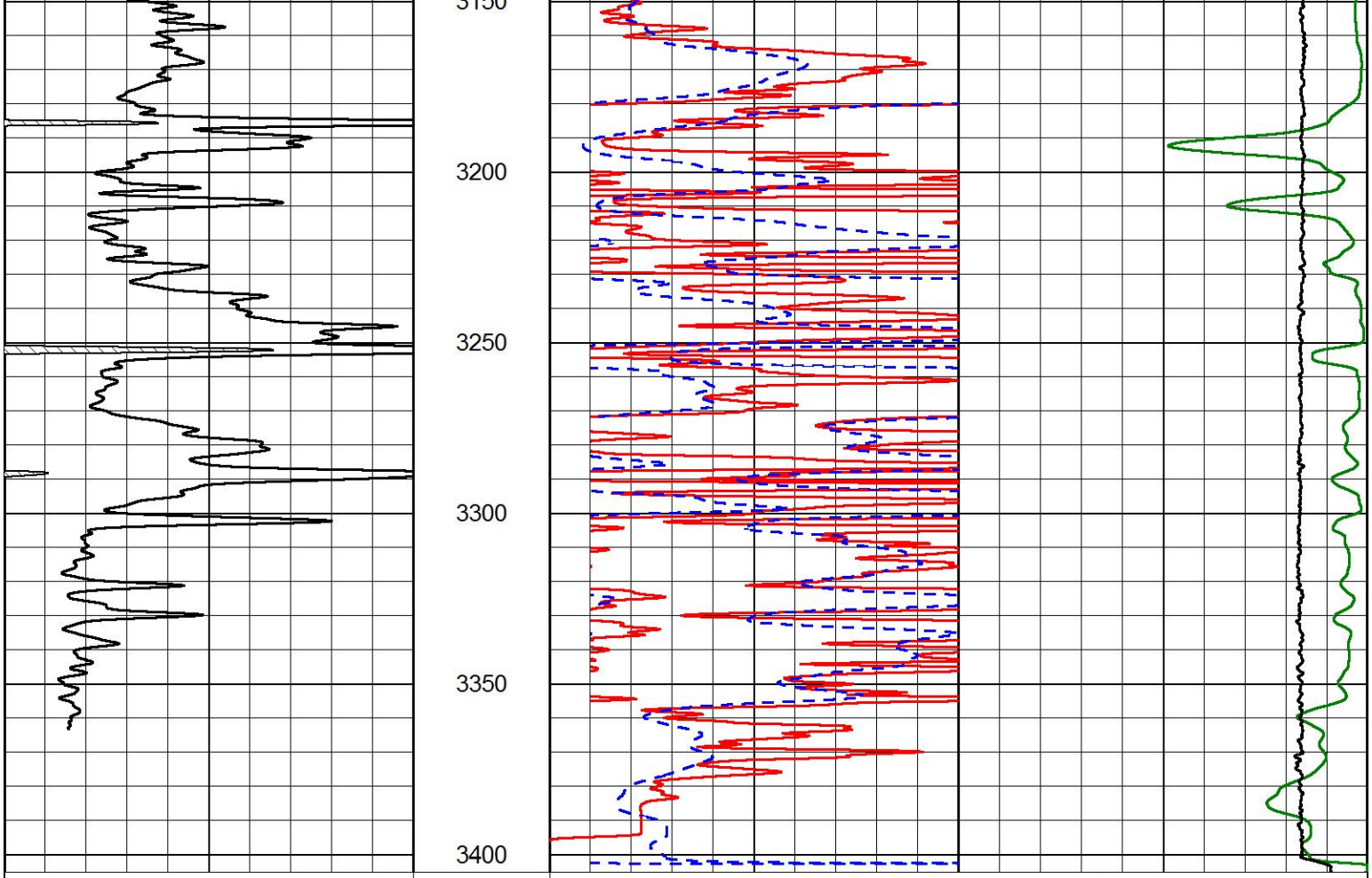

400
450
500
550
600
650
700
750
800
850
900
950


950
1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500


1500
1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050


2050
2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600


2600
2650
2700
2750
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2900
2950
3000
3050
3100
3150

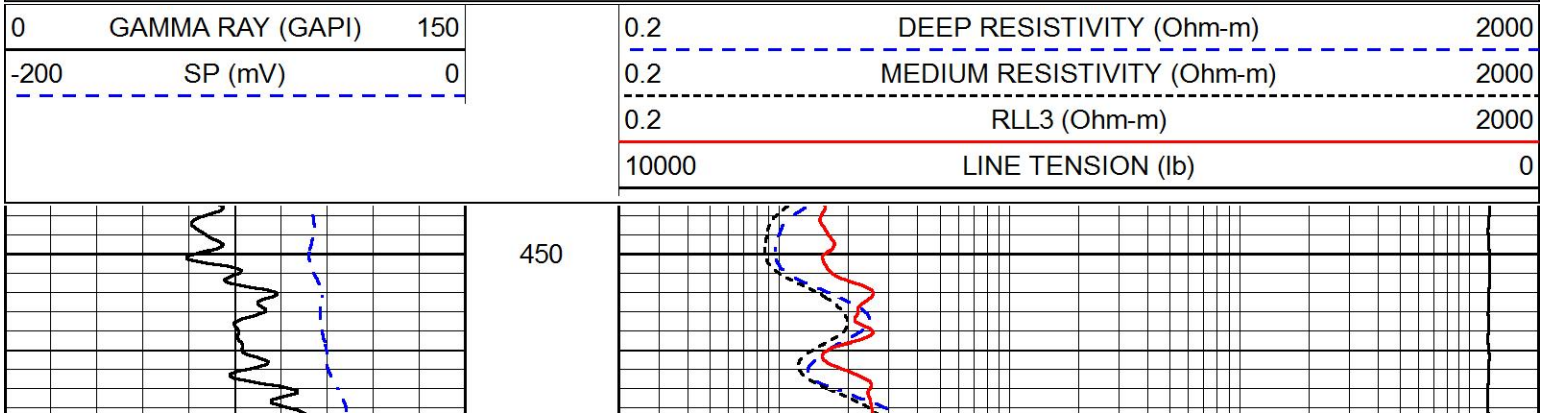


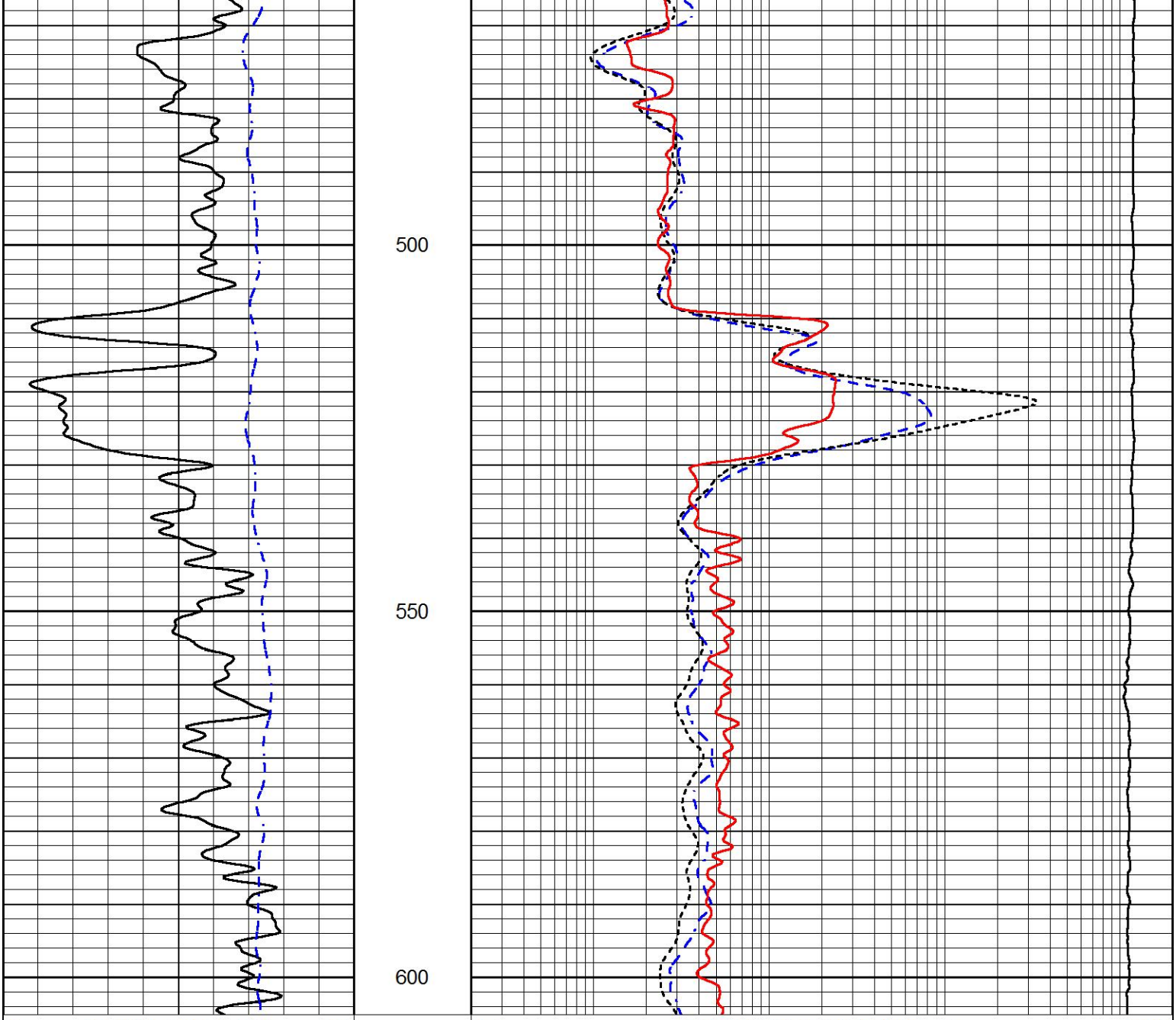
MIDWEST WIRELINE

ANHYDRITE SECTION

MAIN PASS

Database File	batchman_herter 5.db
Dataset Pathname	stkml/pass5.1
Presentation Format	_dil
Dataset Creation	Wed Apr 28 08:22:57 2021
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

MIDWEST WIRELINE

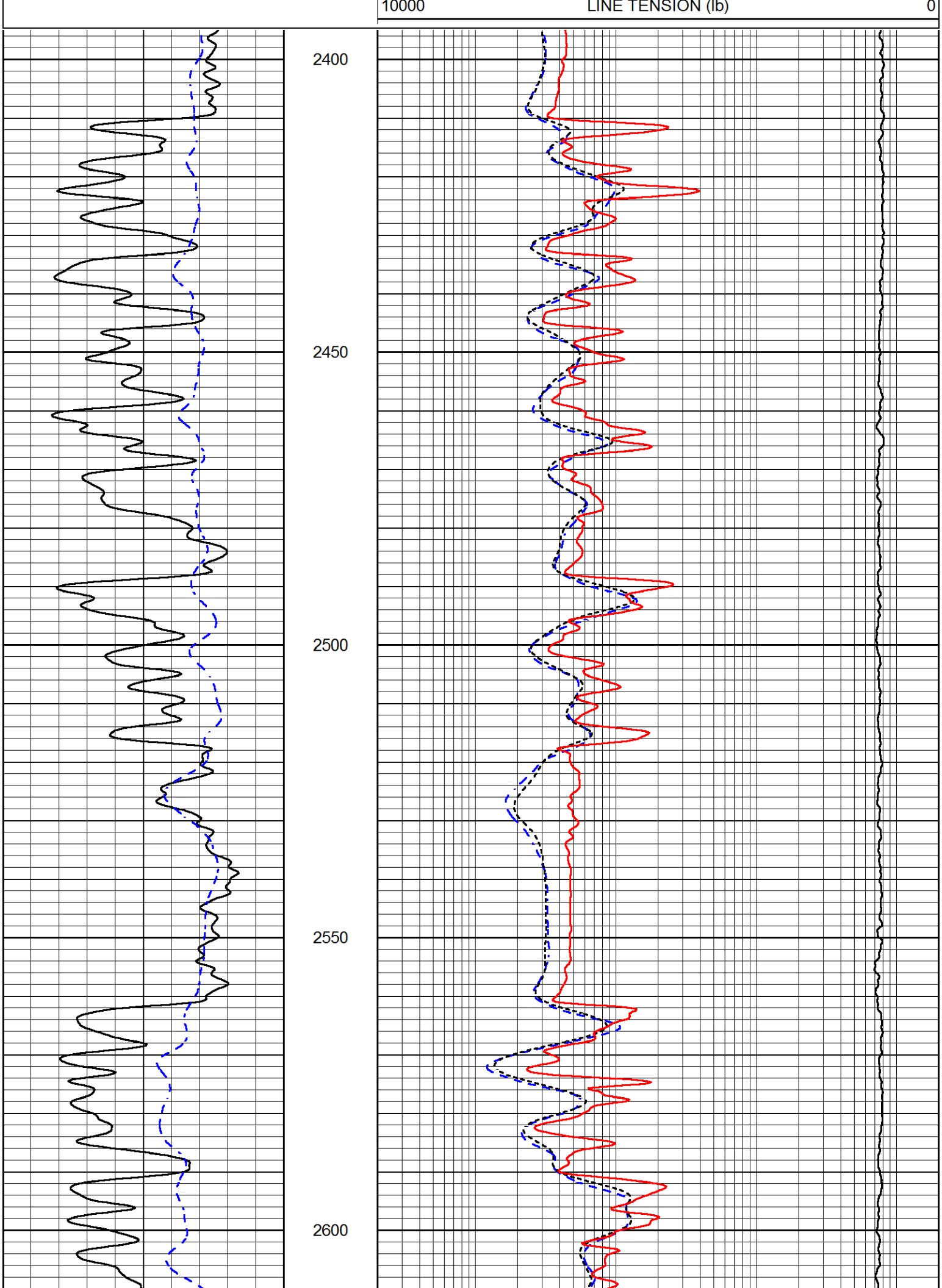
DETAIL SECTION

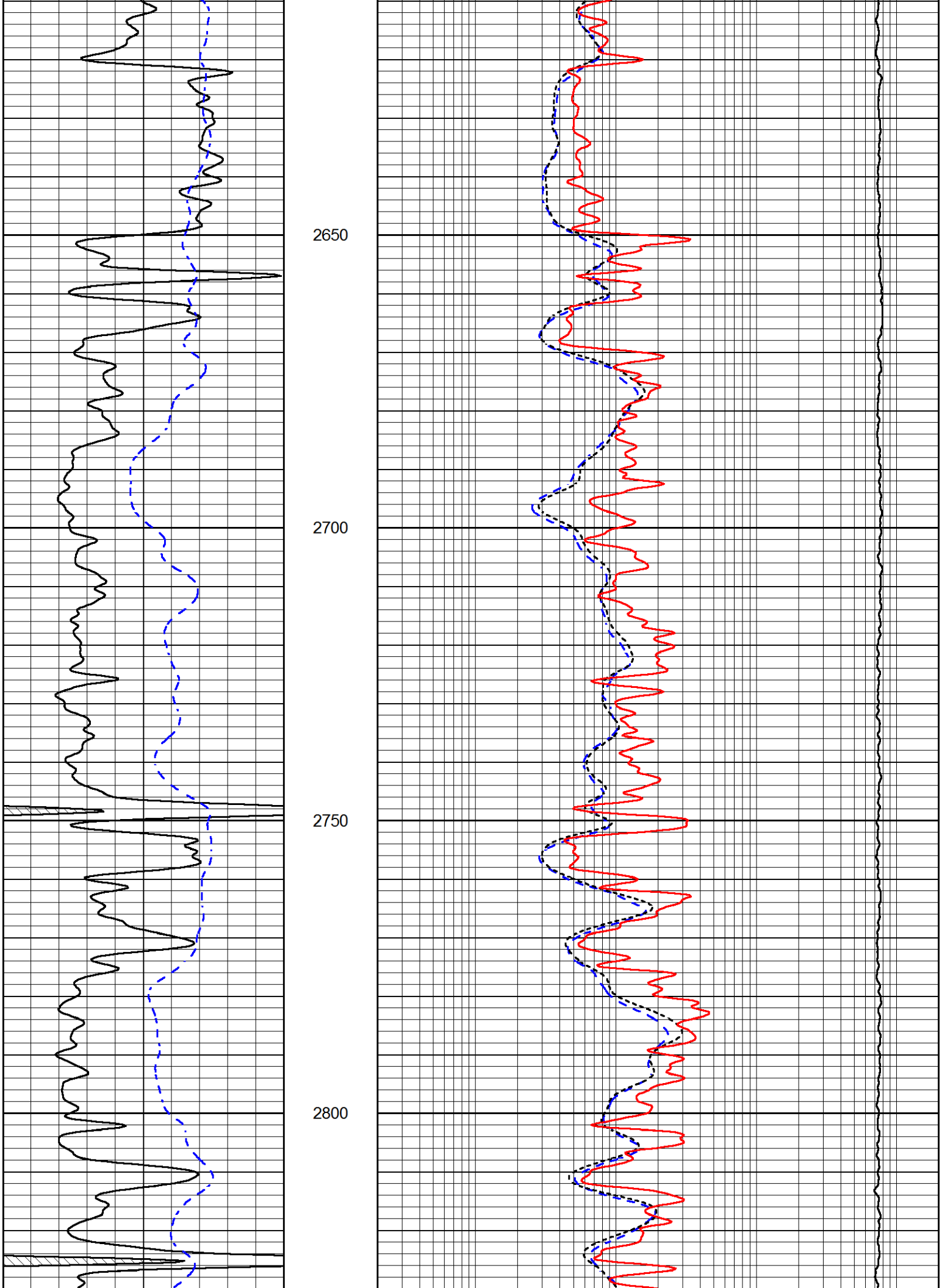
MAIN PASS

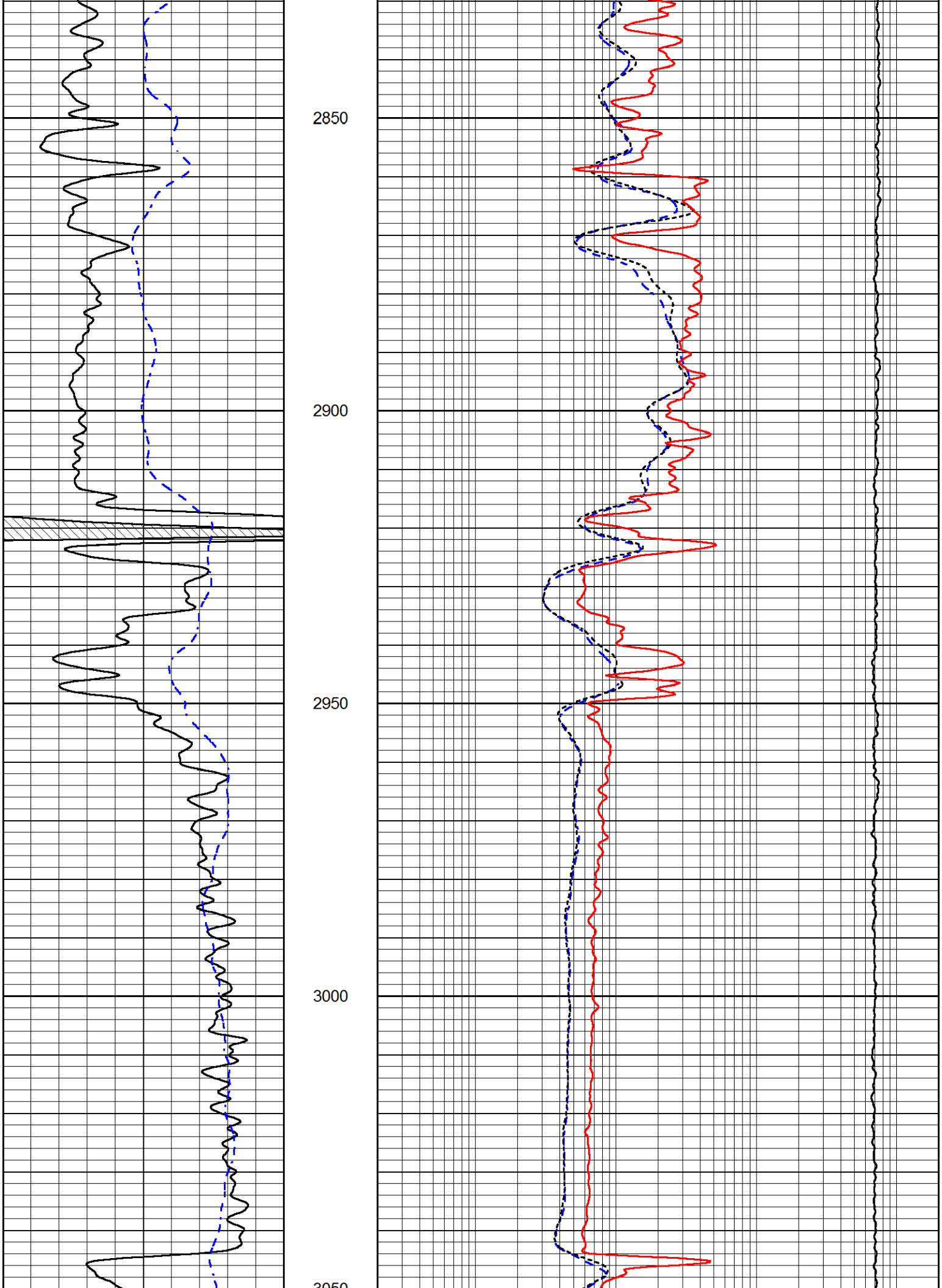
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Dataset Pathname	stkml/pass3.1
Presentation Format	_dil
Dataset Creation	Wed Apr 28 08:00:11 2021
Charted by	Depth in Feet scaled 1:240

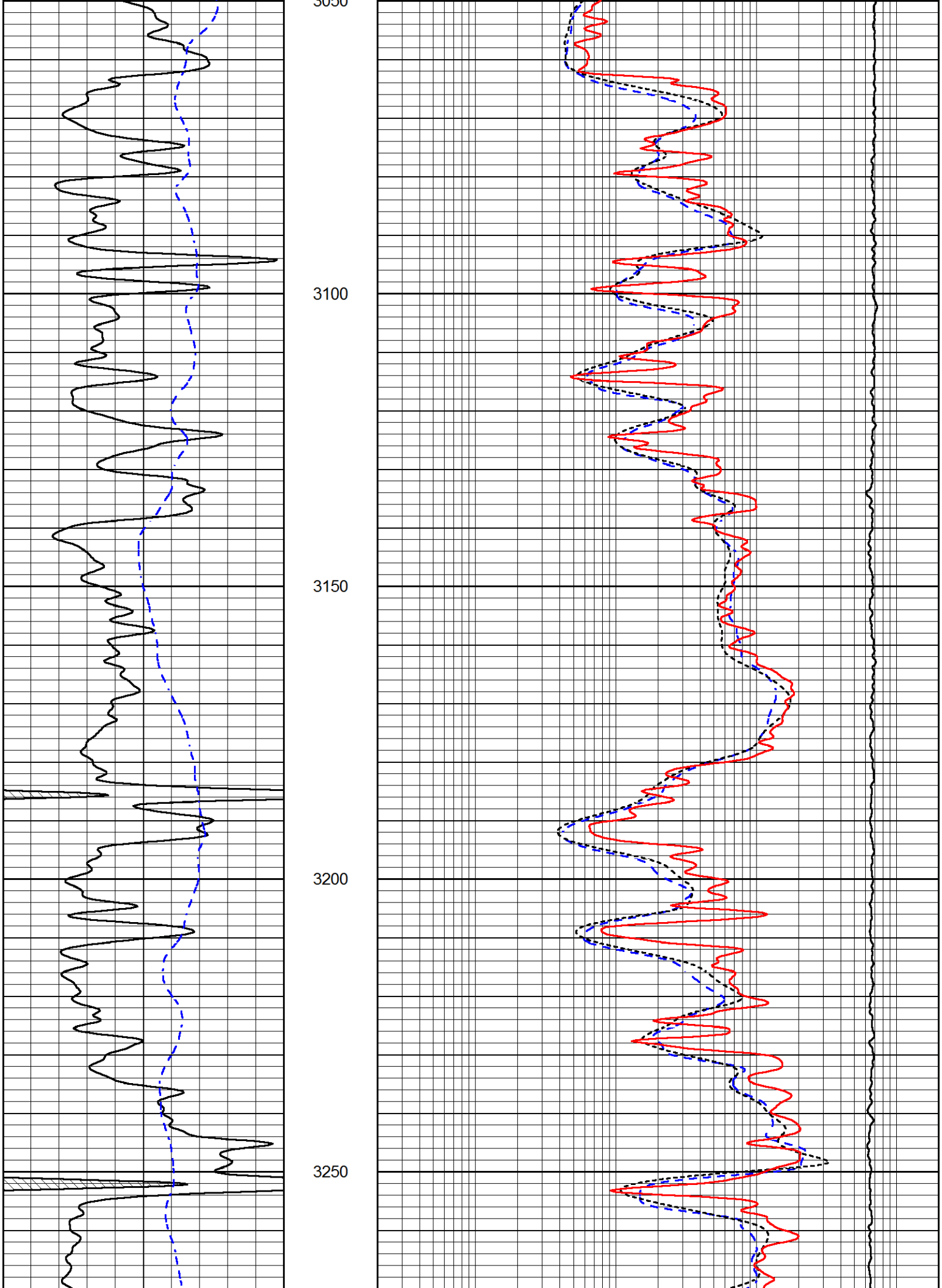
0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0

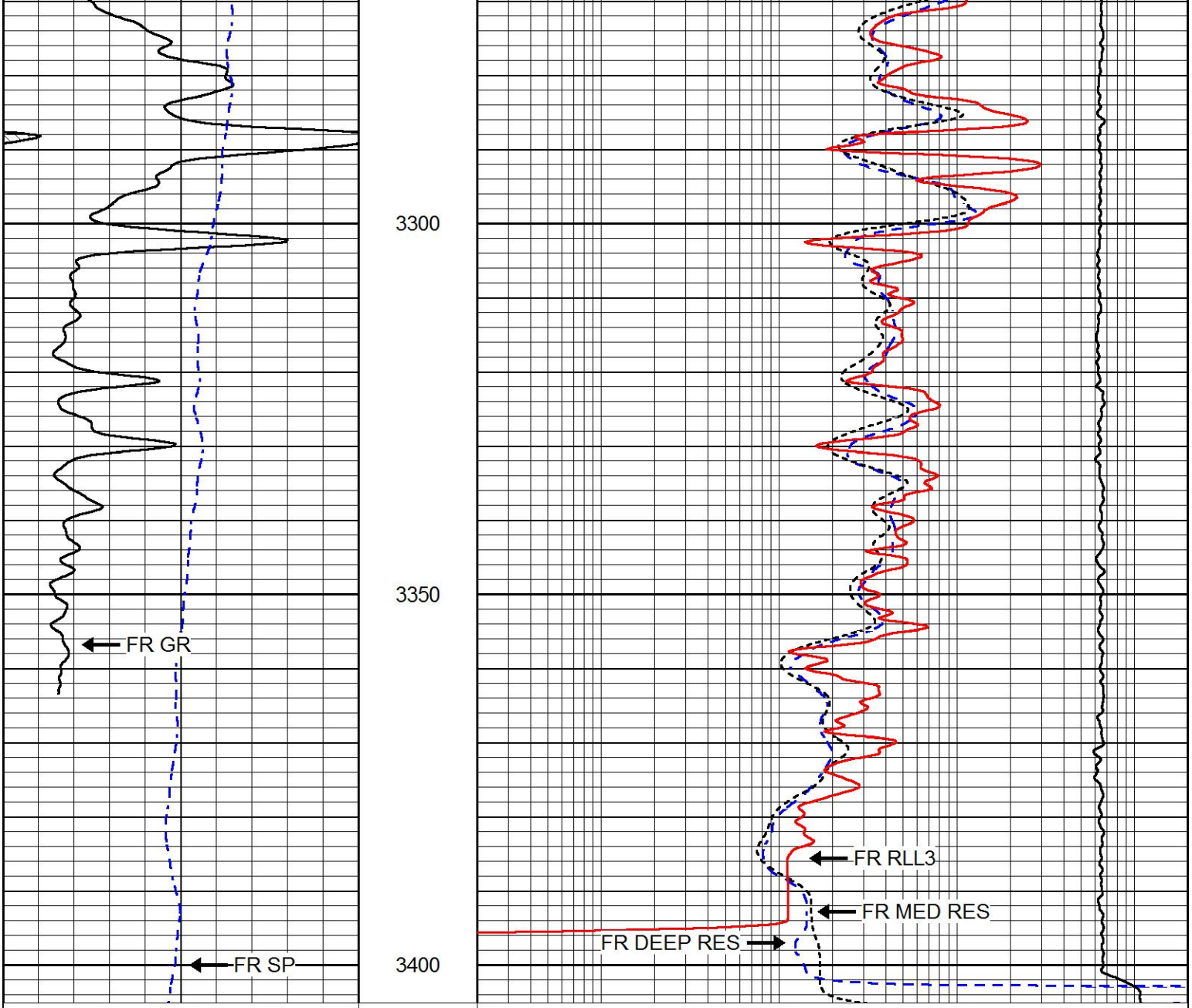
0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000


10000
LINE TENSION (lb)
0
2400
2450
2500
2550
2600


2650
2700
2750
2800


2850
2900
2950
3000


3050
3100
3150
3200
3250



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

MIDWEST WIRELINE

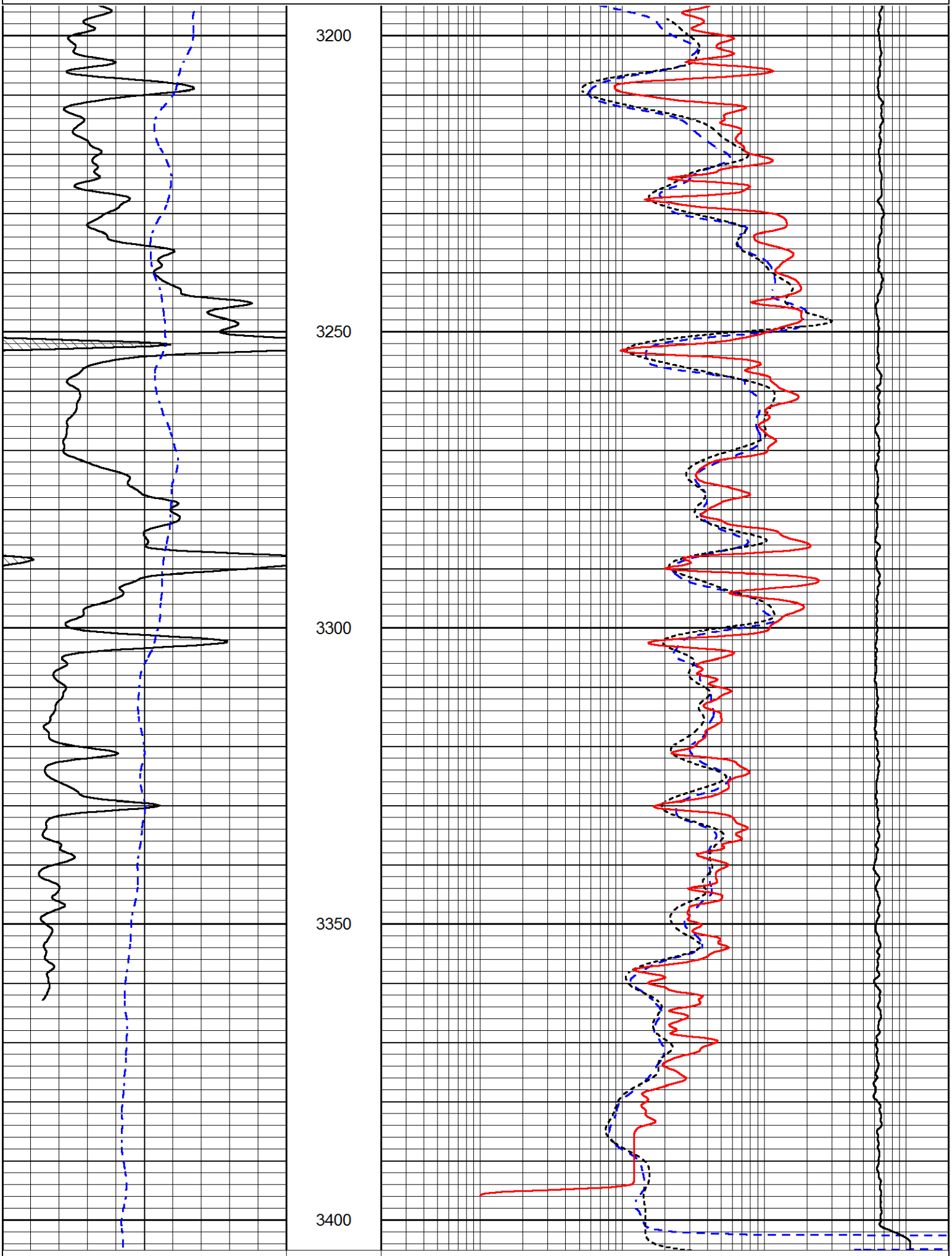
REPEAT SECTION

REPEAT PASS

Database File	batchman_herter 5.db
Dataset Pathname	stkml/pass2.1
Presentation Format	_dil
Dataset Creation	Wed Apr 28 08:13:57 2021
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


3200
3250
3300
3350
3400
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

MIDWEST WIRELINE

Company	Chris Batchman, Inc.
Well	Herter #5
Field	Chase - Silica
County	Barton
State	Kansas