



DUAL INDUCTION LOG

MIDWEST WIRELINE

Company Berexco LLC		Company Berexco LLC	
Well Gene #1		Well Gene #1	
Field		Field	
County Russell	State Kansas	County Russell	State Kansas
Location: API #: 15-167-24117-00-00		Other Services	
SEC 8 TWP 11S RGE 15W		CNL/CDL MEL/BHCS	
Permanent Datum	Ground Level	Elevation	1903
Log Measured From	Kelly Bushing	K.B.	1913
Drilling Measured From	Kelly Bushing	D.F.	1903
Date 2/14/2022			
Run Number	One		
Depth Driller	3500		
Depth Logger	3504		
Bottom Logged Interval	3503		
Top Log Interval	250		
Casing Driller	8.625 @ 265		
Casing Logger	260		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2000		
Density / Viscosity	8.9 52		
pH / Fluid Loss	8.5 9.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.80 @ 72		
Rmt @ Meas. Temp	.60 @ 72		
Rmc @ Meas. Temp	1.08 @ 72		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.52 @ 111		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	111		
Equipment Number	P-108		
Location	HAYS		
Recorded By	J. Henrickson		
Witnessed By	Bryan Bynog		

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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.

Paradise Ks

3/4 West on Tower Rd to Fork, Left at fork for 3 Miles,
N Into

Log Measured From: Kelly Bushing

10 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

Engineer: J. Henrickson
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Bryan Bynog
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 111	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 455	degF 50	Off	ft 3504

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (103)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (210)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (303-03)	8.50	4.00	250.00
ML-PSI STKBL ML (402)			ML-PSI STKBL ML (402)	7.58	4.00	65.00
MCAL MI MN	19.58 19.58 19.58					
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (504 HT)	18.25	3.50	220.00

CILM

4.50

SP

0.20

Dataset: berexco_gene_1.db: field/well/stackml/pass4.1
Total length: 42.33 ft
Total weight: 685.00 lb
O.D.: 4.00 in



MIDWEST WIRELINE

2" SCALE RESISTIVITY

MAIN PASS

Database File berexco_gene_1.db
Dataset Pathname stackml/pass6.1
Presentation Format _dil2in
Dataset Creation Mon Feb 14 08:29:04 2022
Charted by Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

1000 Conductivity (mmho/m) 0

15000 Line Tension (lb) 0

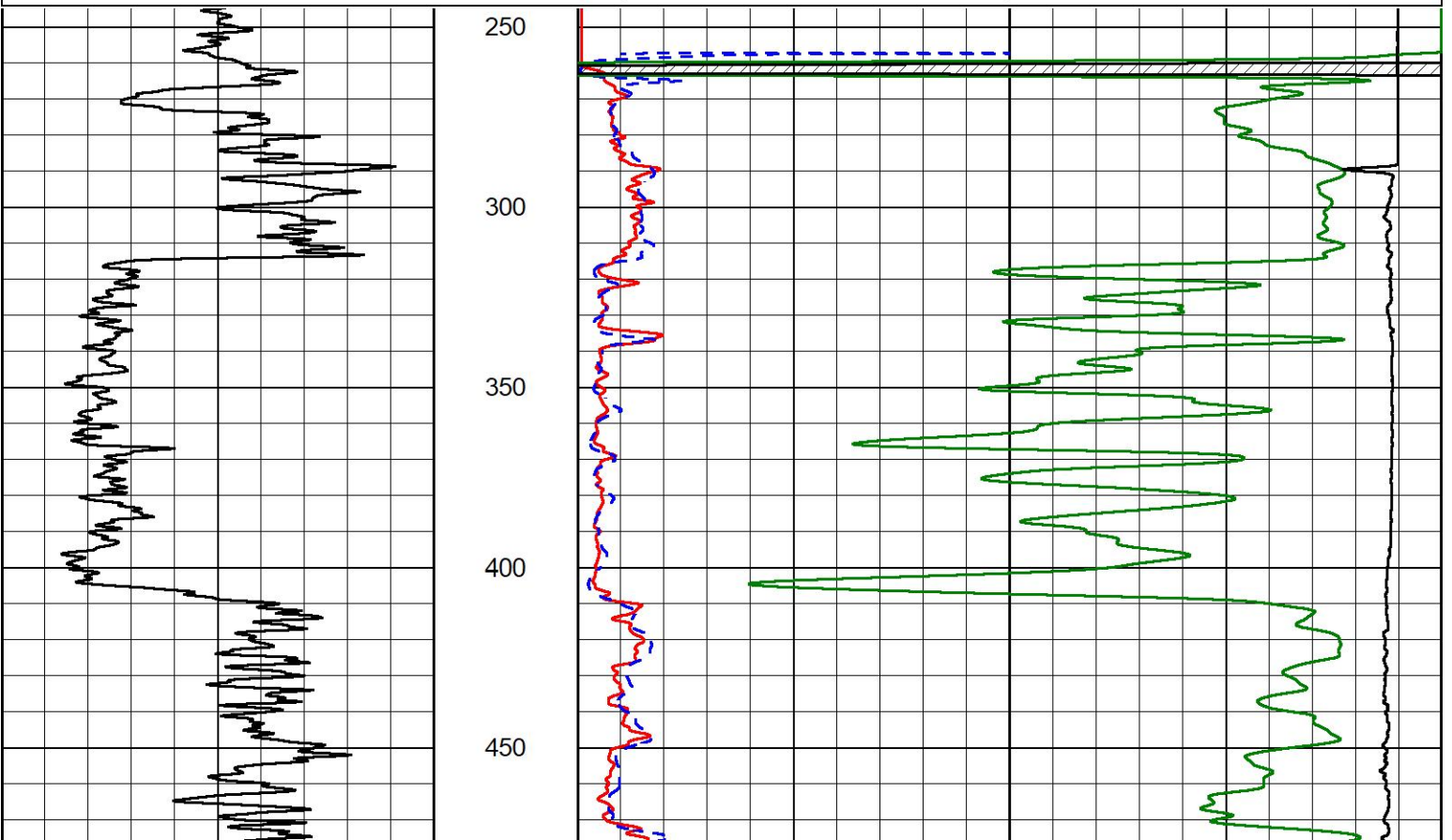
0 Shallow Resistivity (Ohm-m) 50

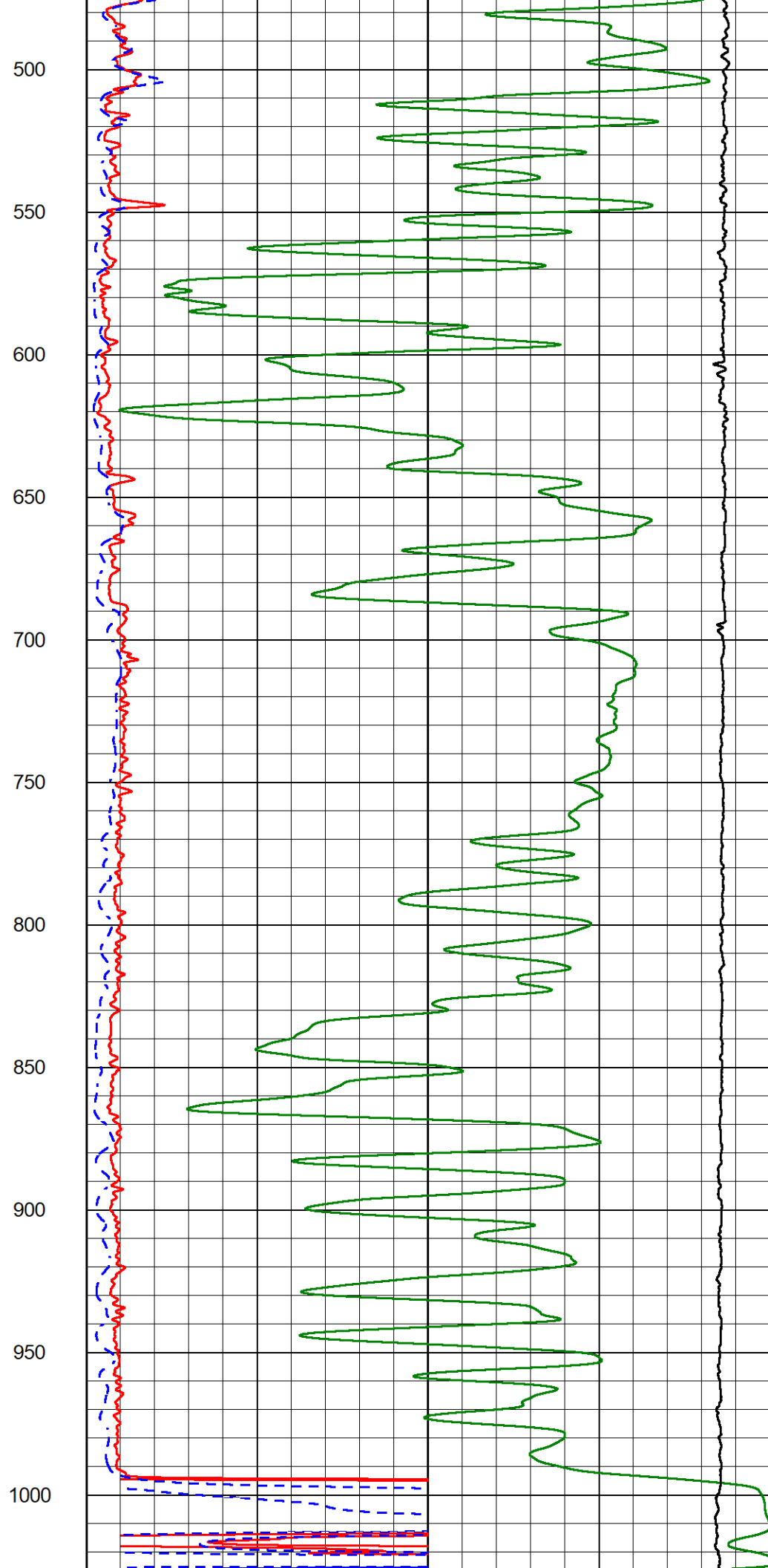
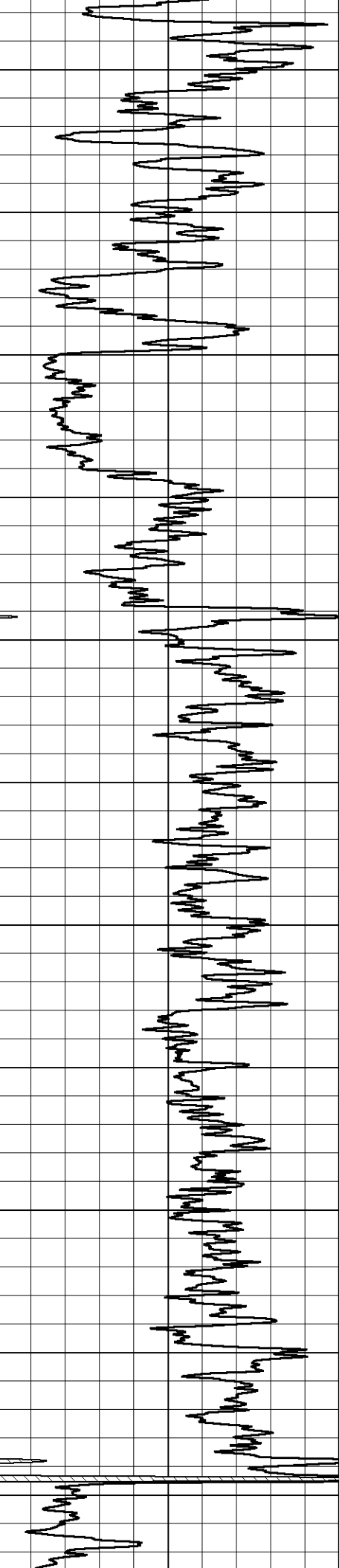
0 Deep Resistivity (Ohm-m) 50

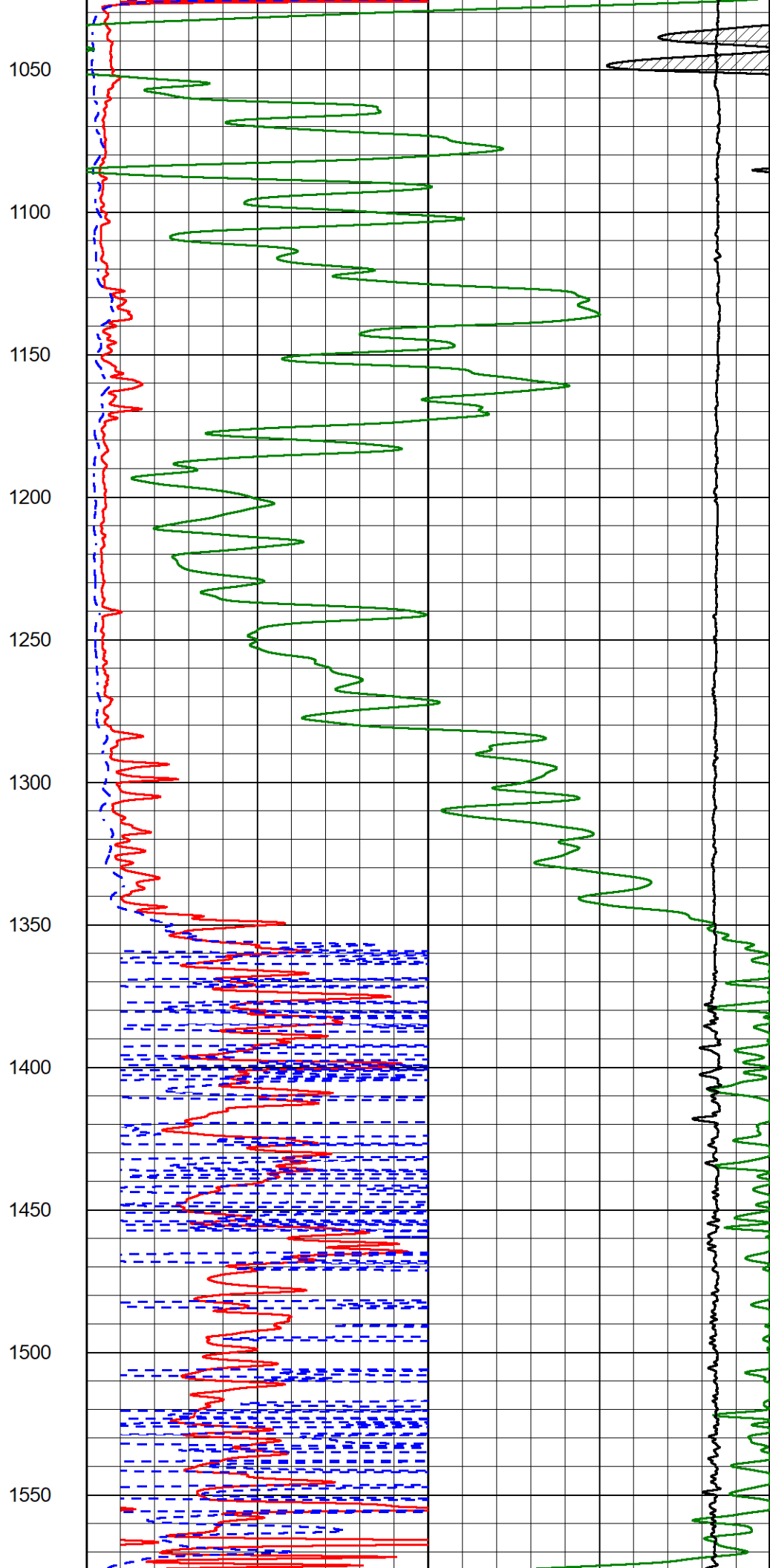
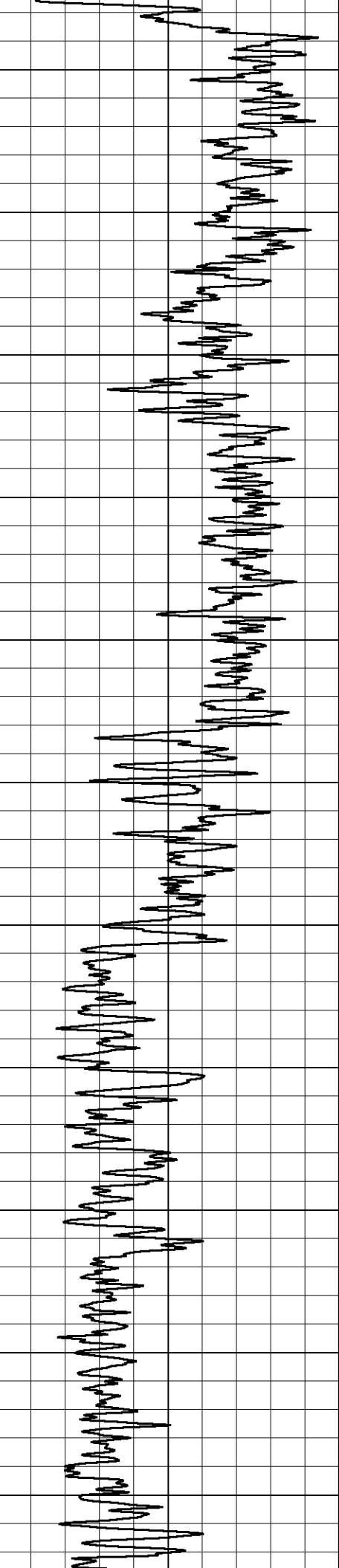
Shallow Resistivity

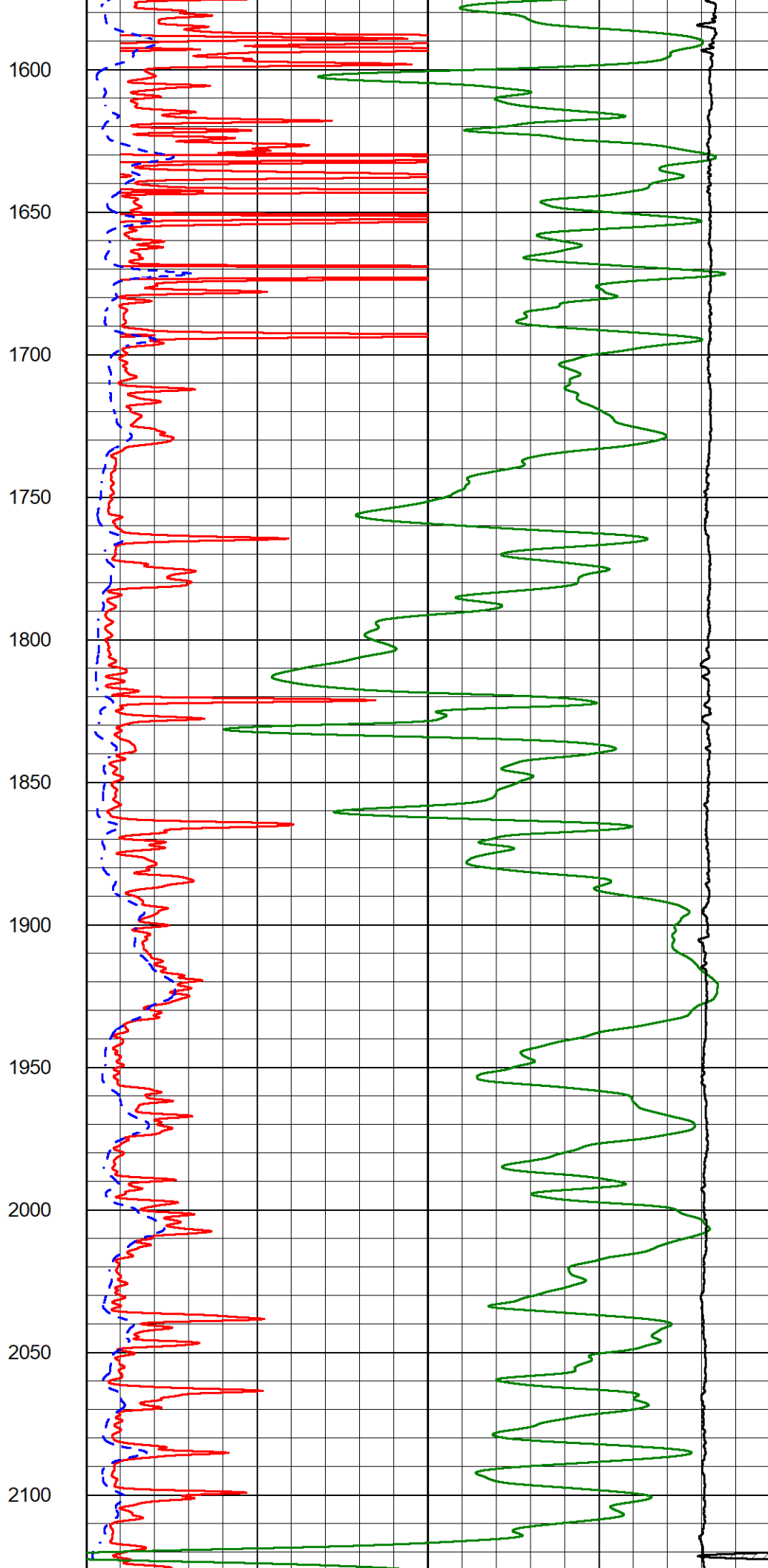
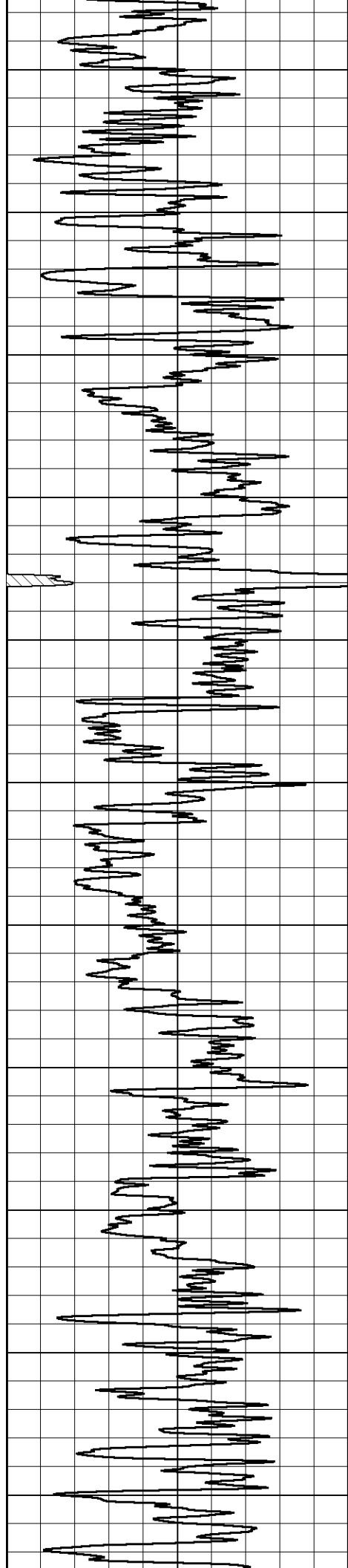
50 (Ohm-m) 200

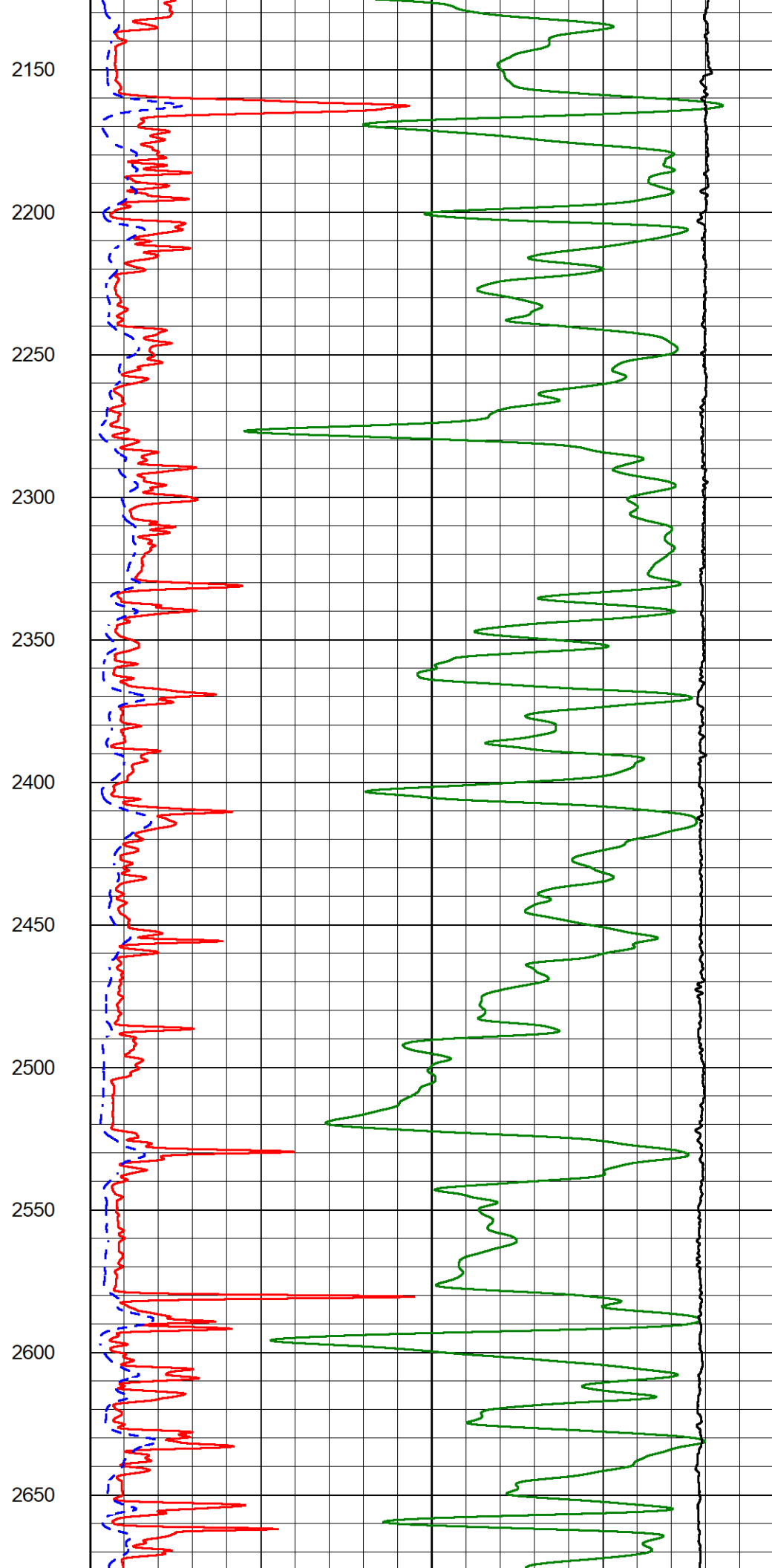
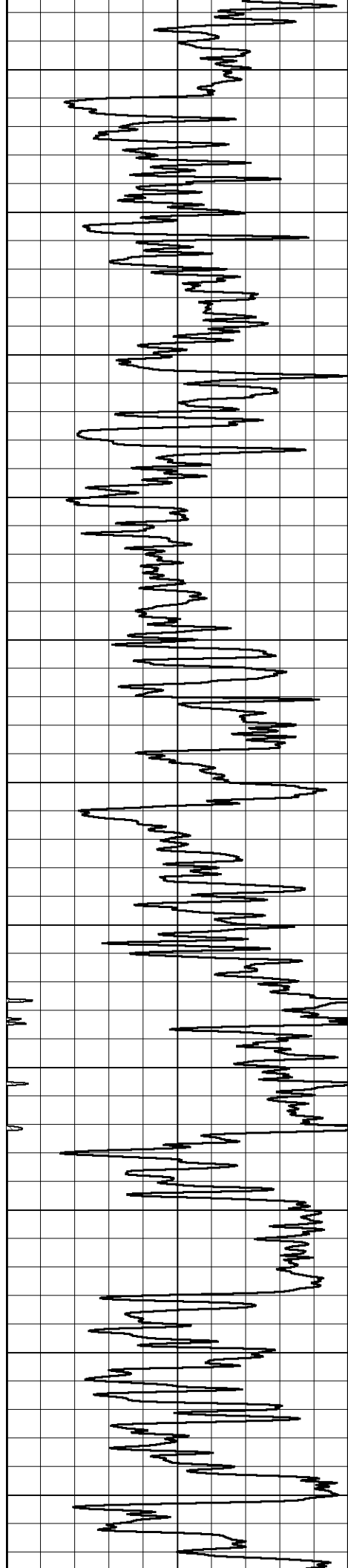
50 Deep Resistivity (Ohm-m) 200

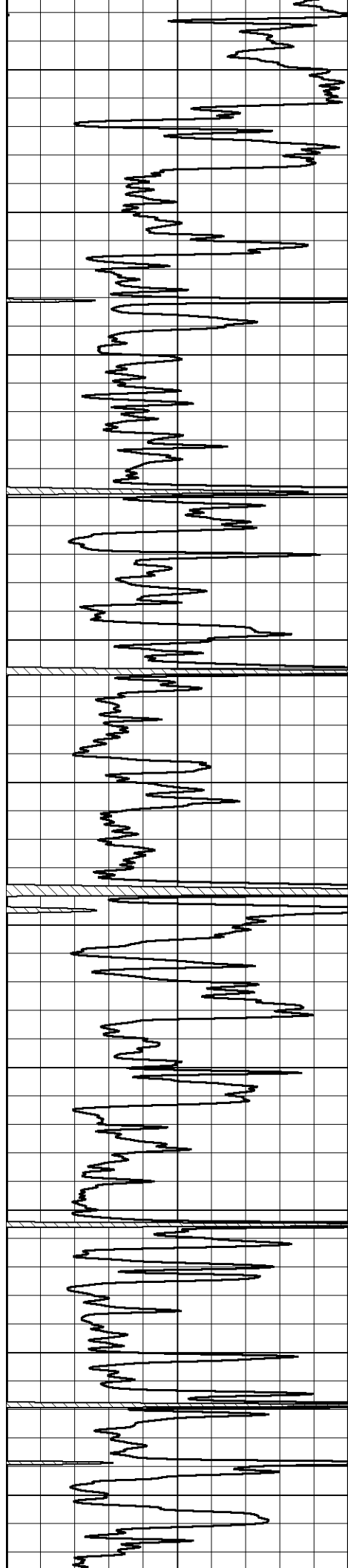












2700

2750

2800

2850

2900

2950

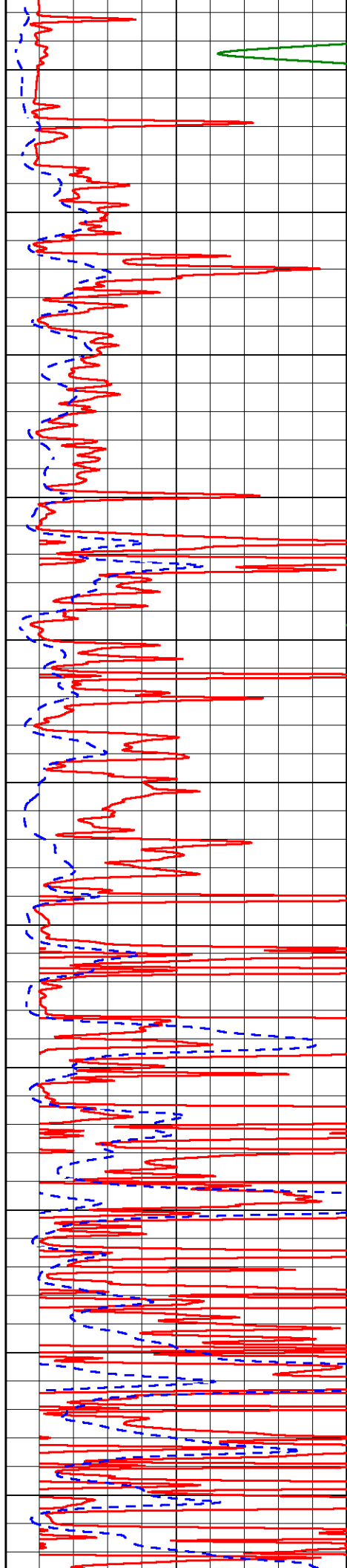
3000

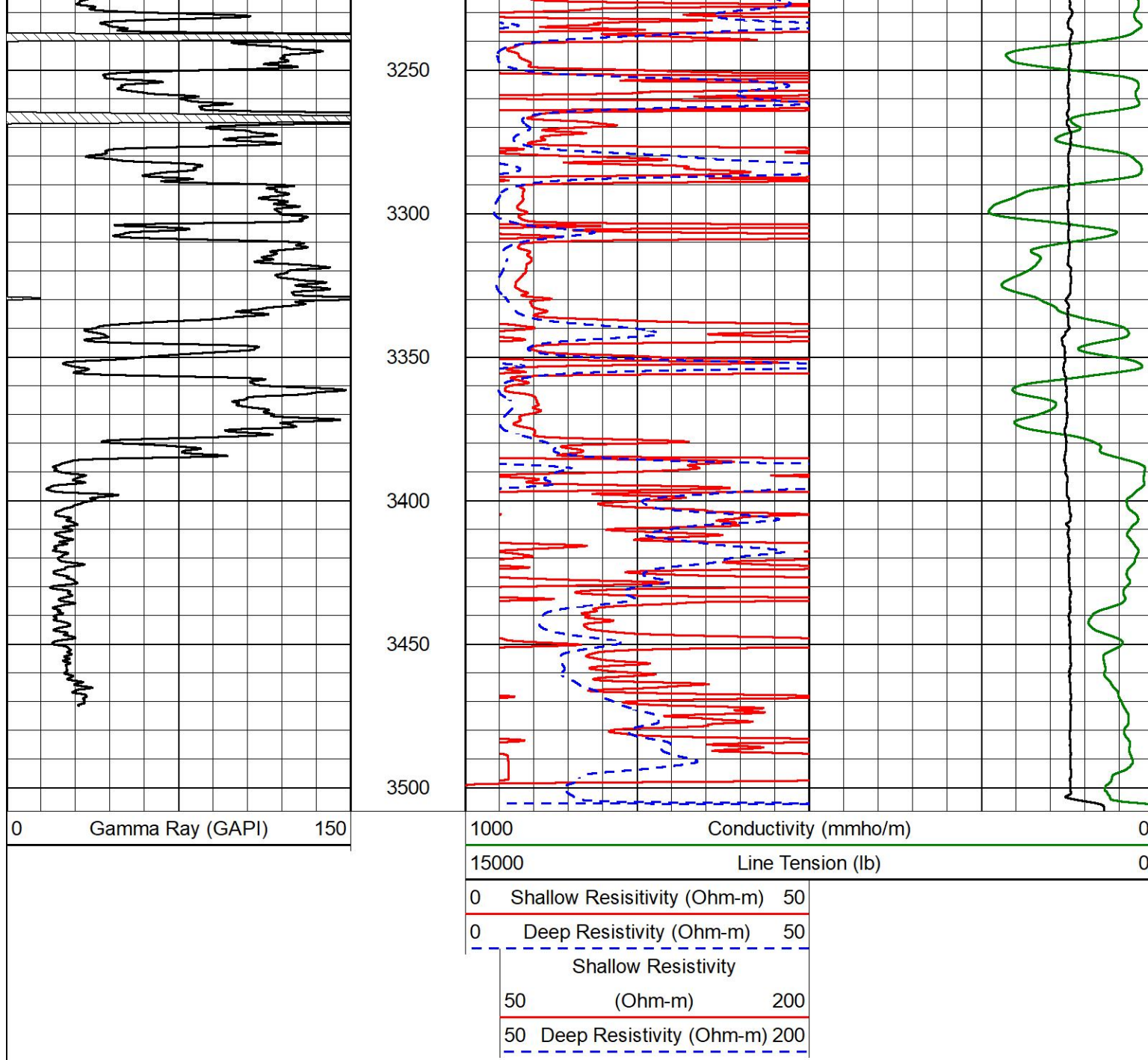
3050

3100

3150

3200





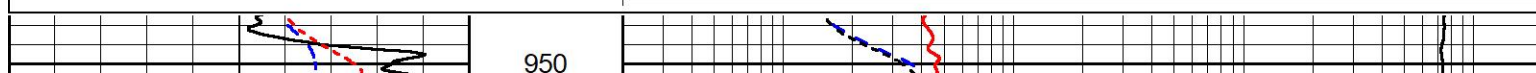
MIDWEST WIRELINE

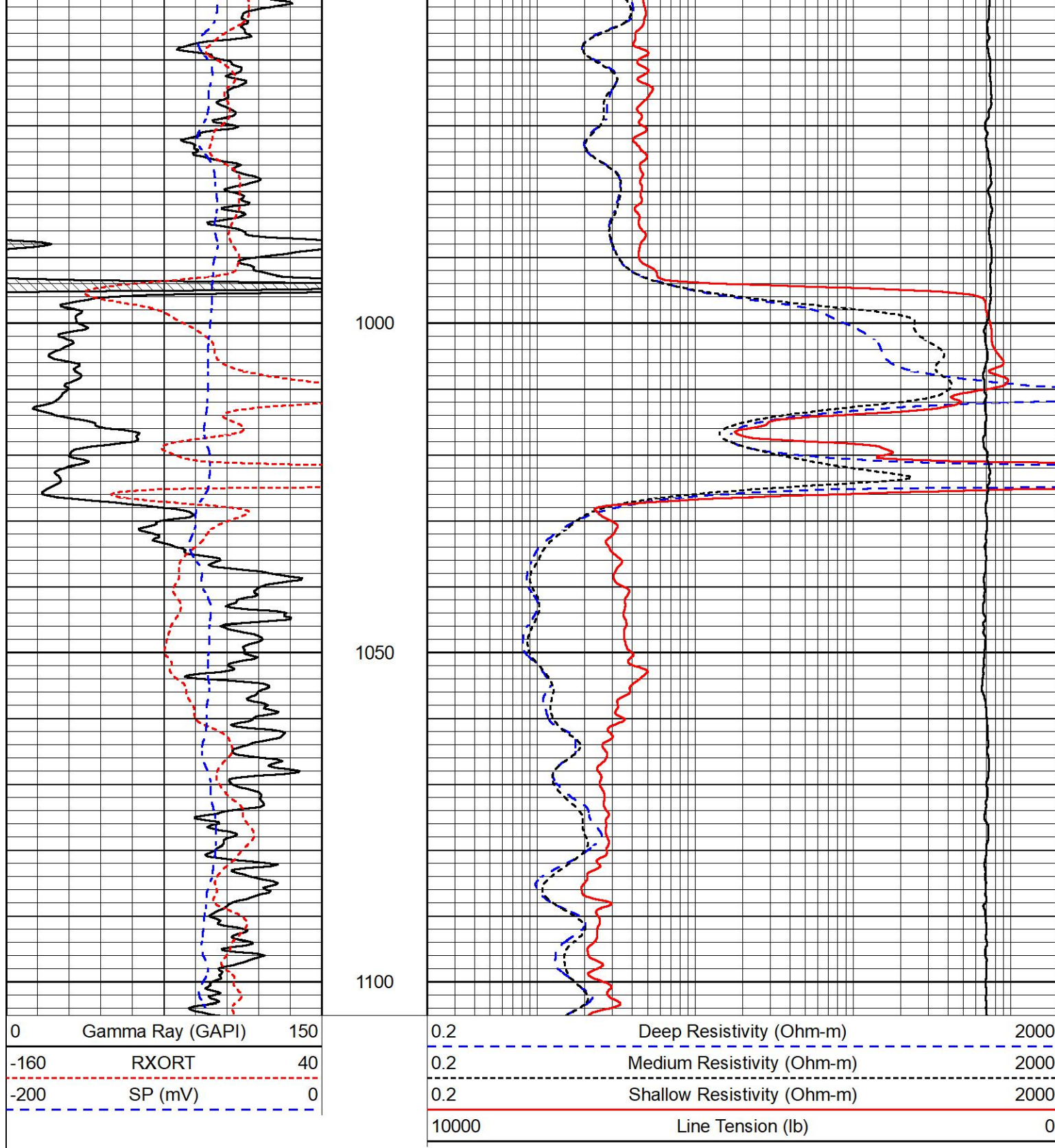
ANHYDRITE SECTION

MAIN PASS

Database File berexco_gene_1.db
 Dataset Pathname stackml/pass5.1
 Presentation Format _dil
 Dataset Creation Mon Feb 14 08:17:12 2022
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
-160	RXORT	40	0.2	Medium Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	Shallow Resistivity (Ohm-m)	2000
			10000	Line Tension (lb)	0



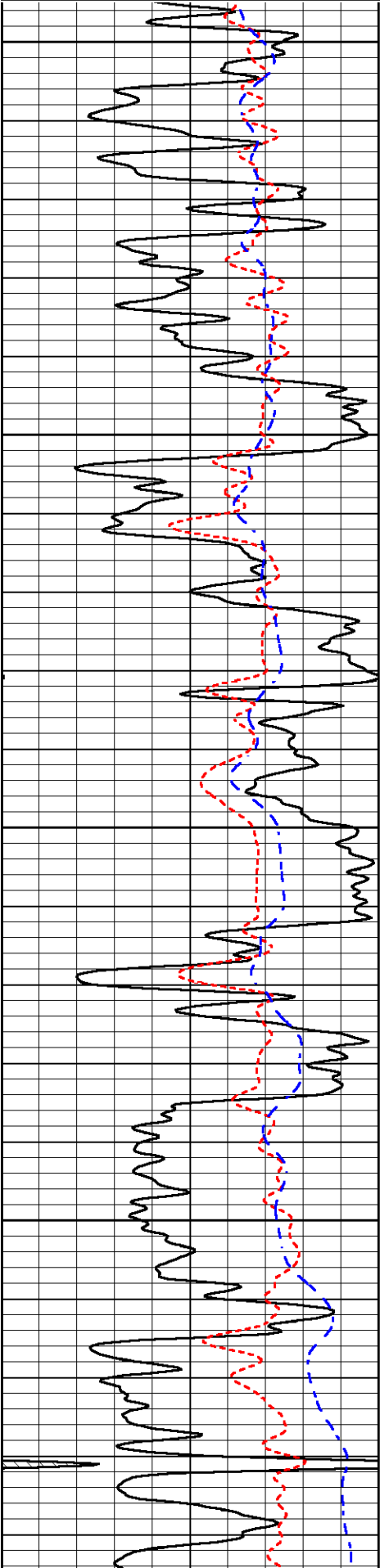


DETAIL SECTION

MAIN PASS

Database File: berexco_gene_1.db
 Dataset Pathname: stackml/pass4.1
 Presentation Format: _dil
 Dataset Creation: Mon Feb 14 07:58:00 2022
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0



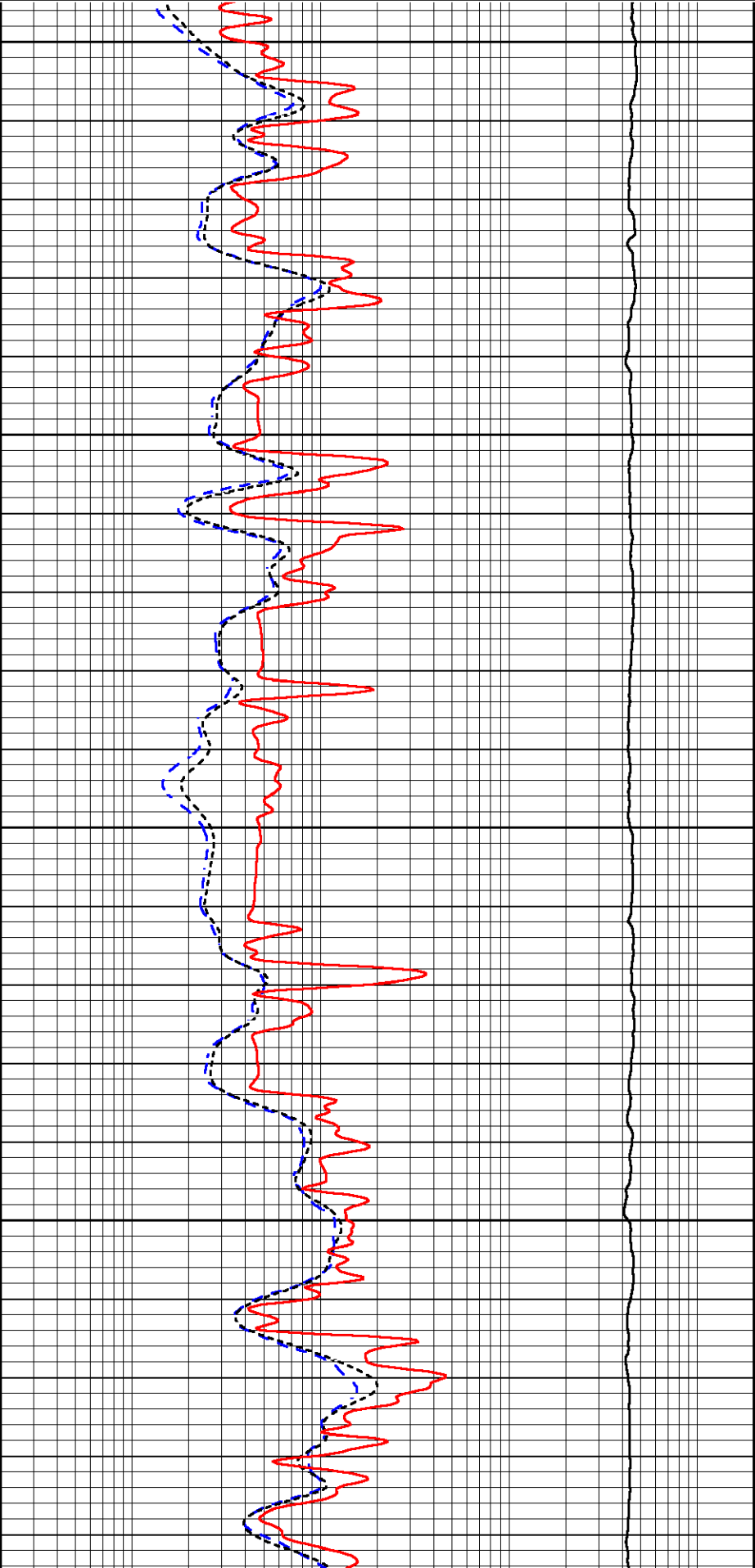
2600

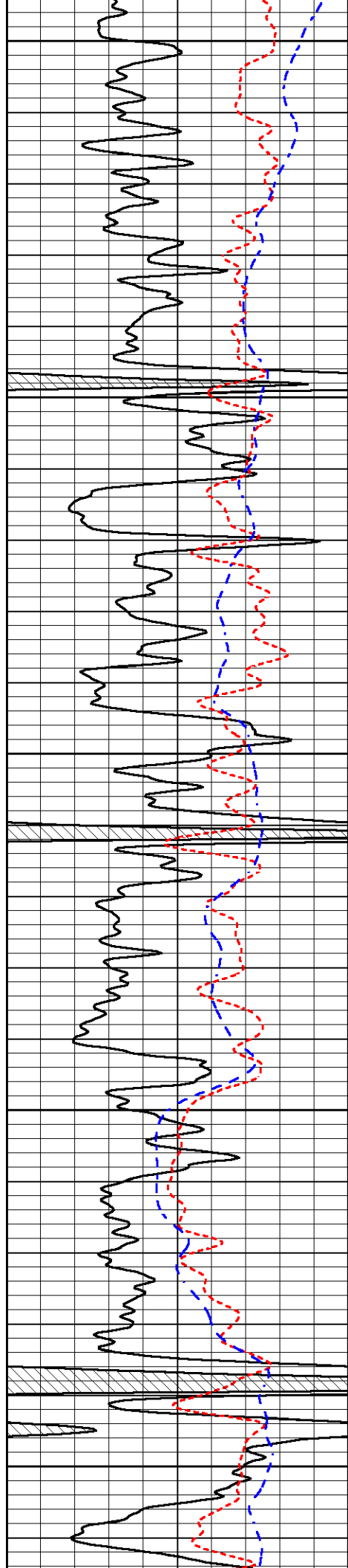
2650

2700

2750

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





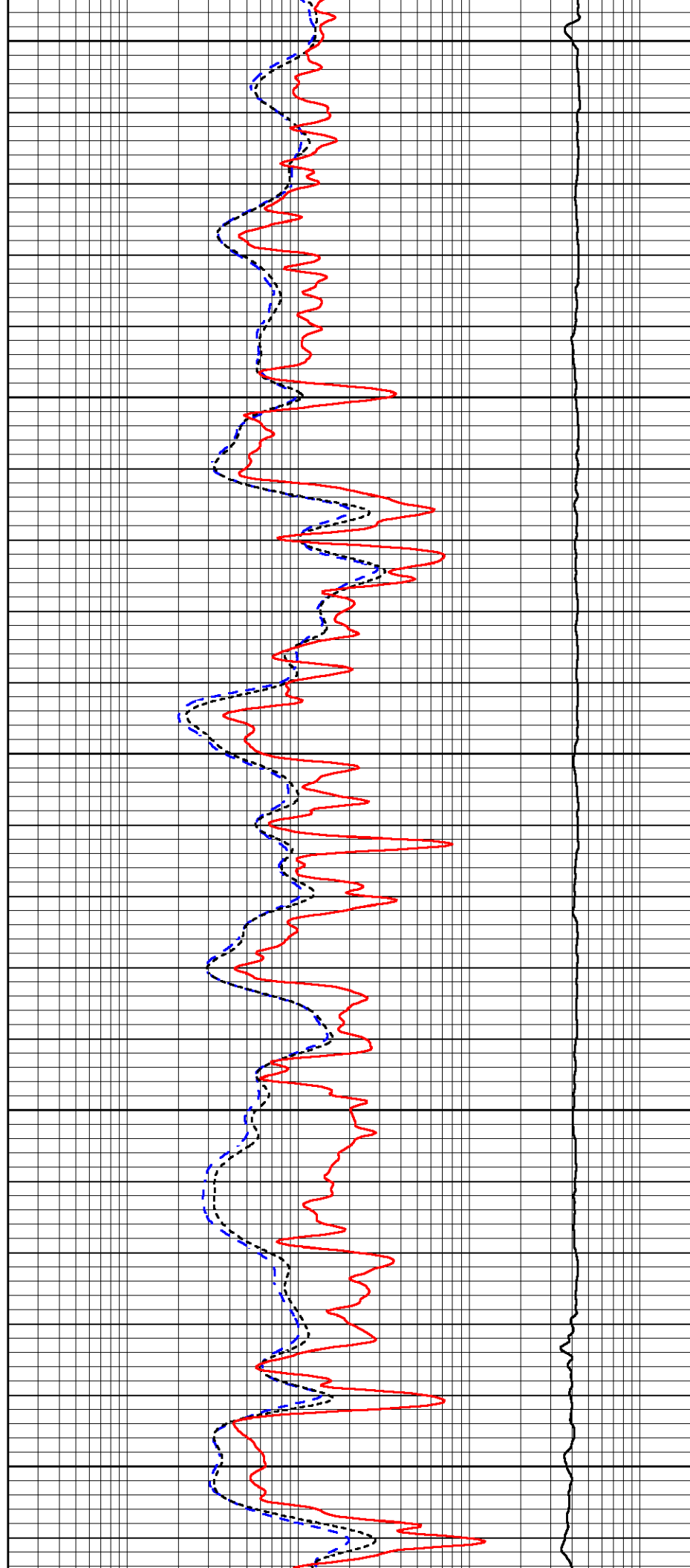
2800

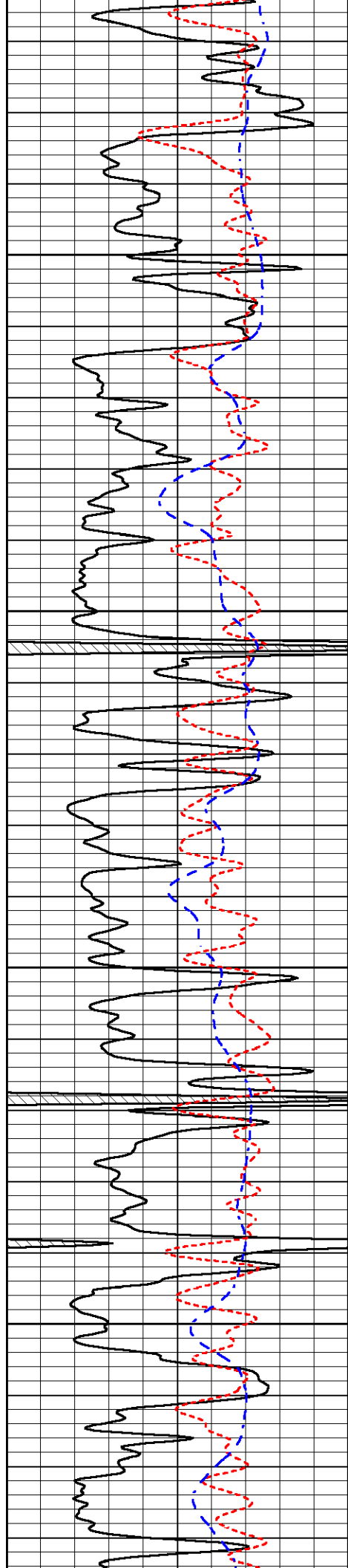
2850

2900

2950

3000



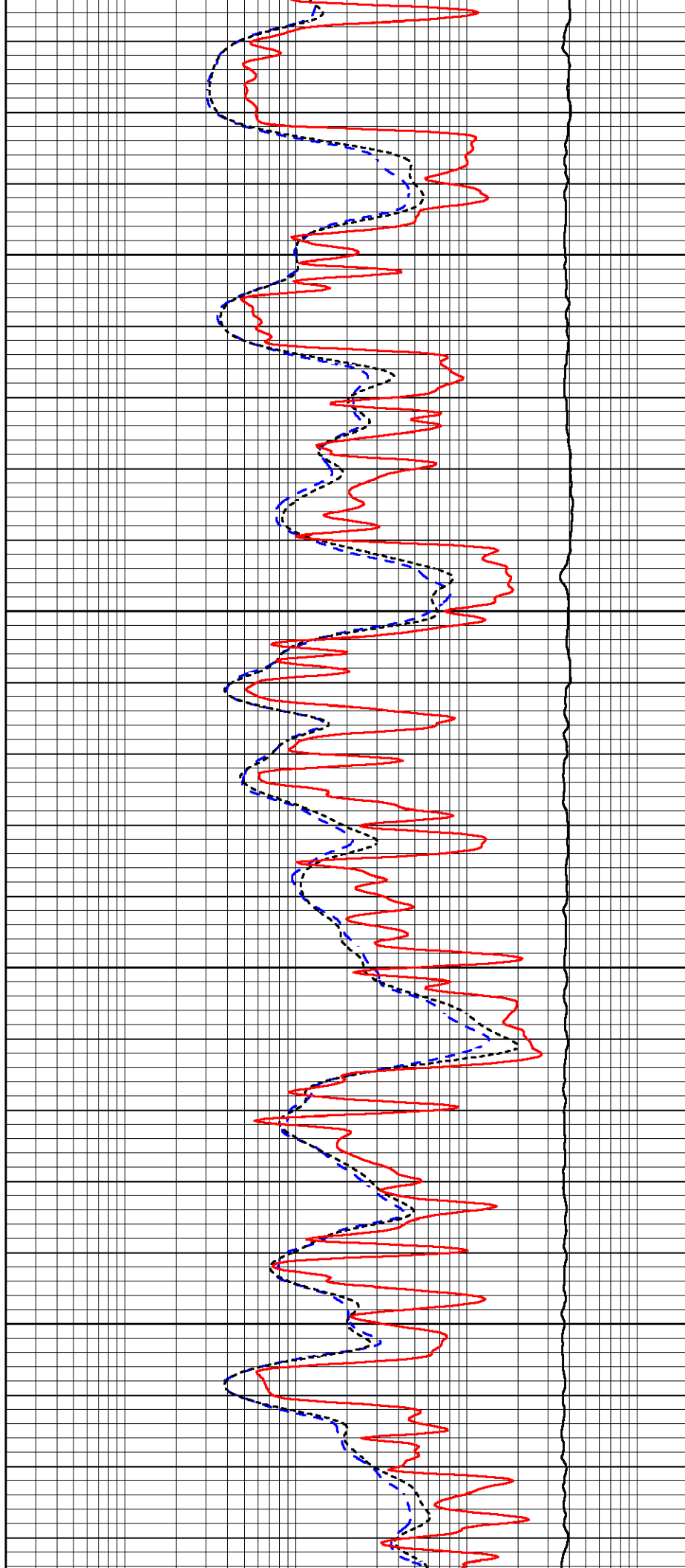


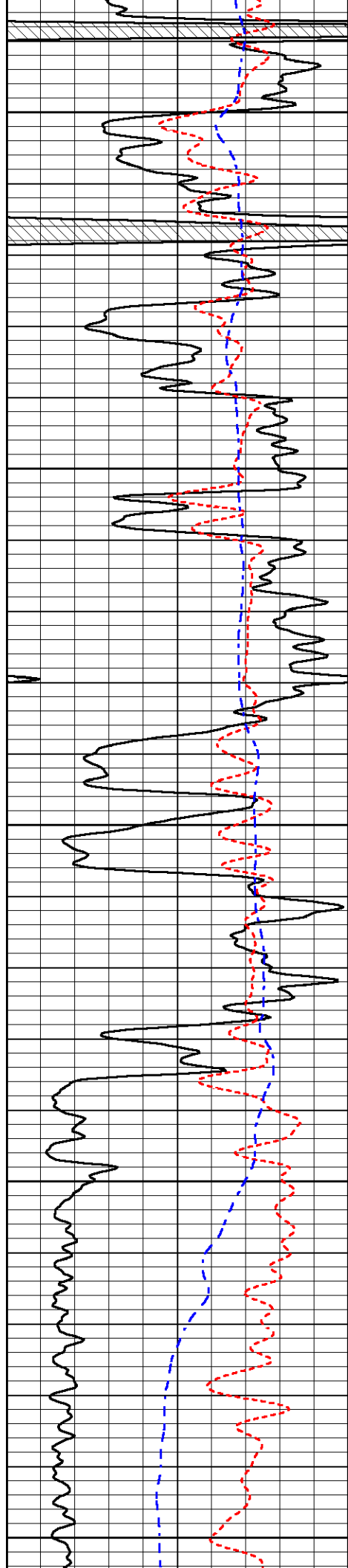
3050

3100

3150

3200





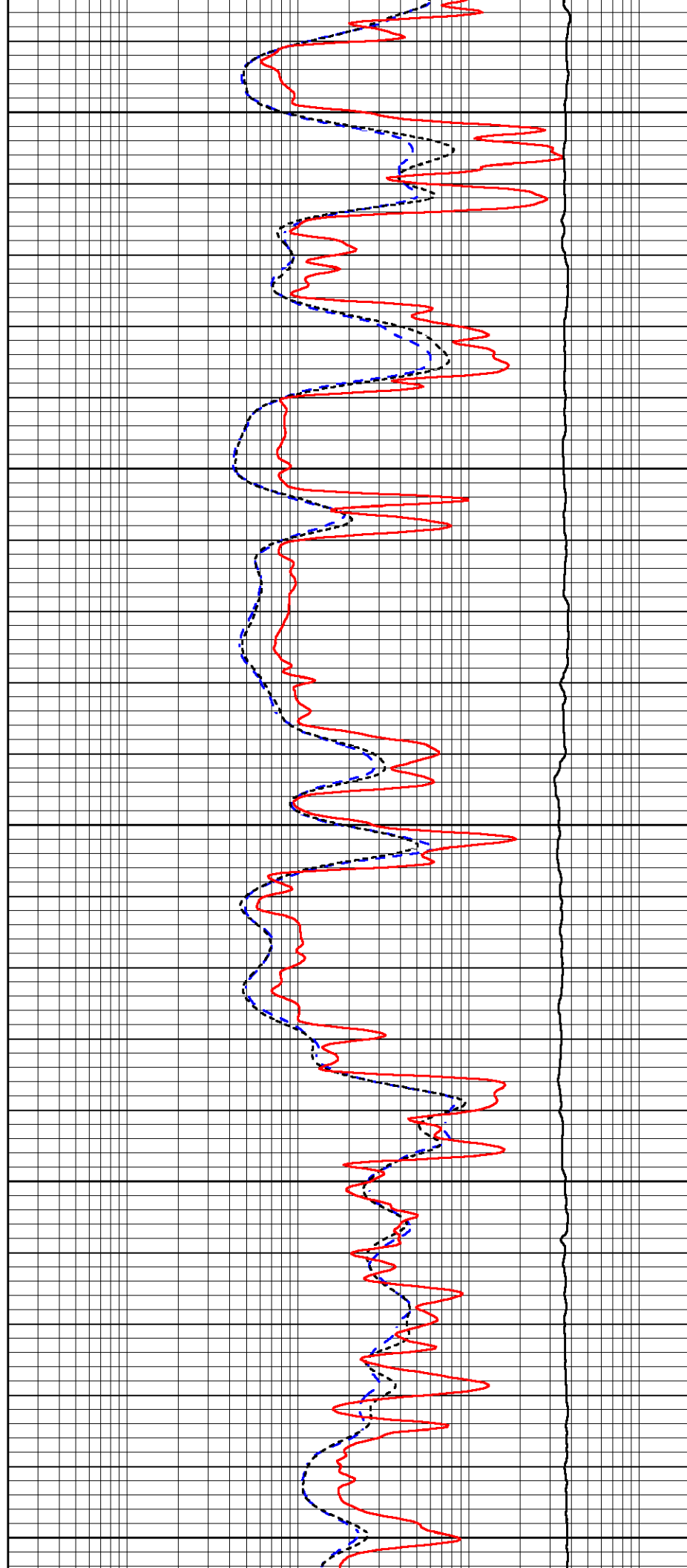
3250

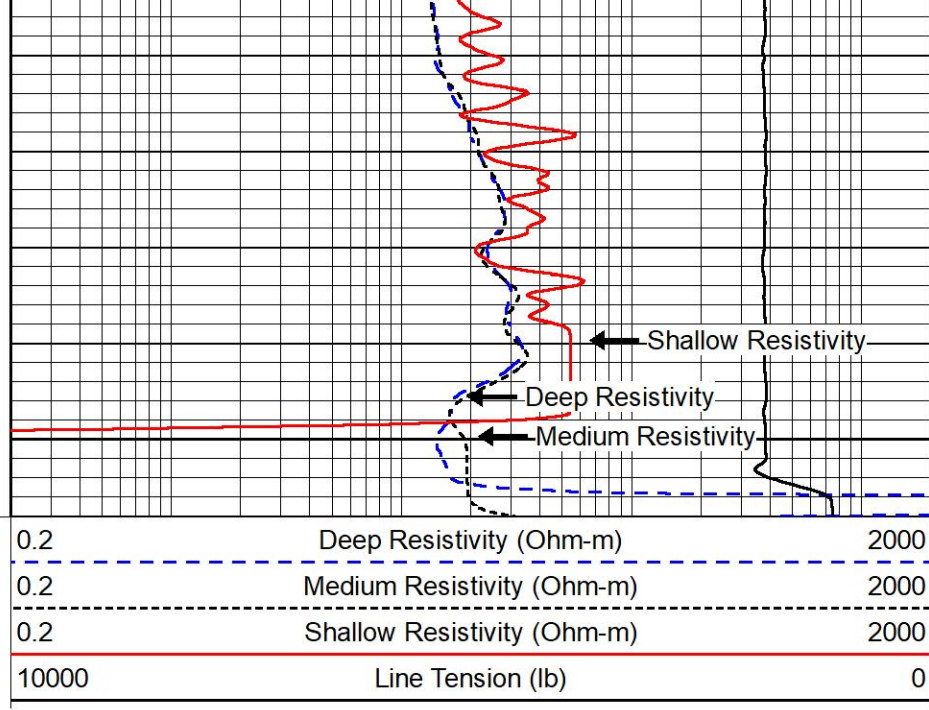
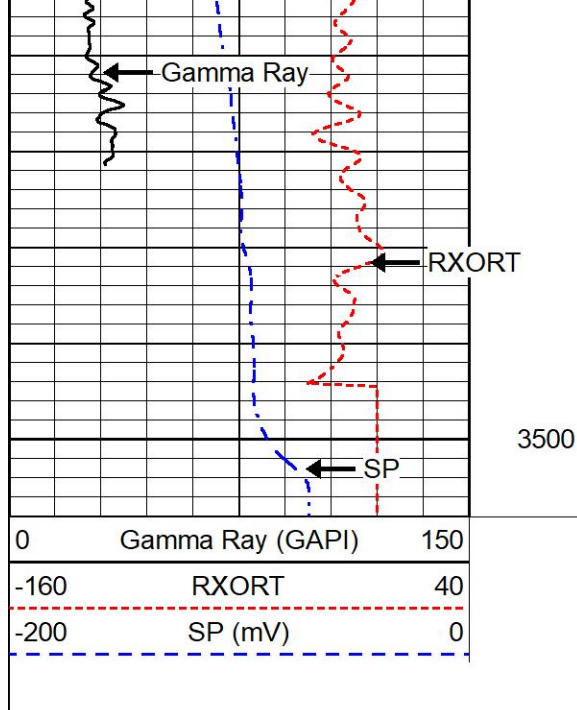
3300

3350

3400

3450





MIDWEST WIRELINE

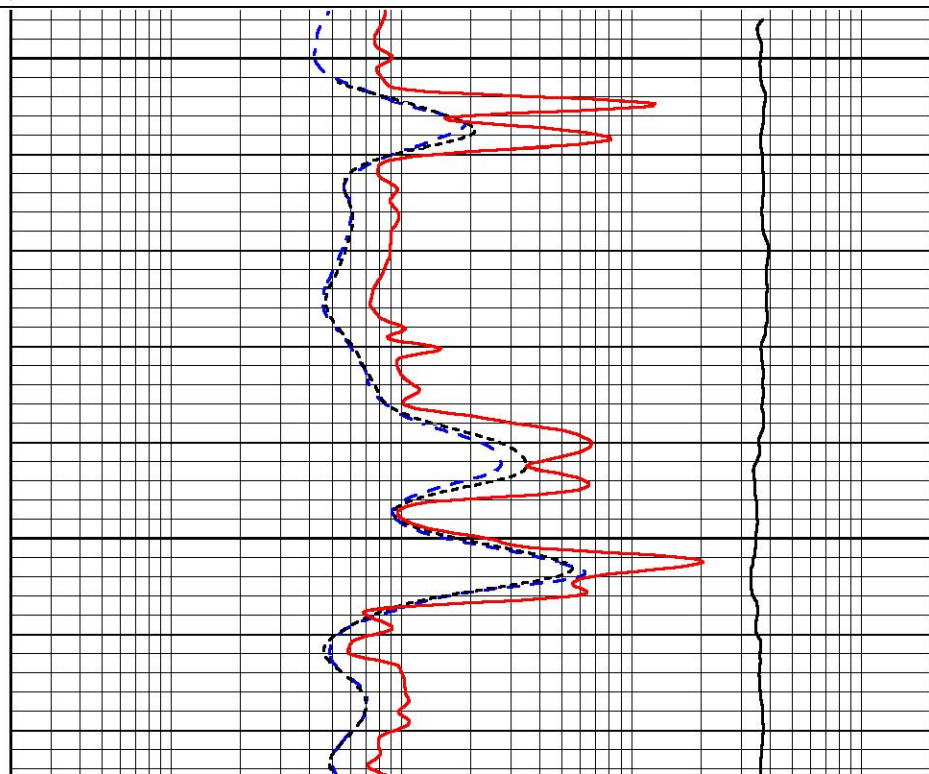
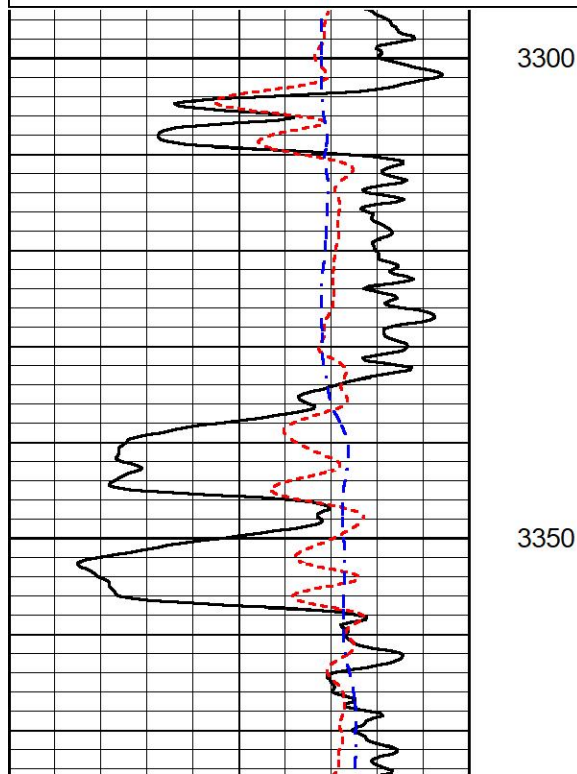
REPEAT SECTION

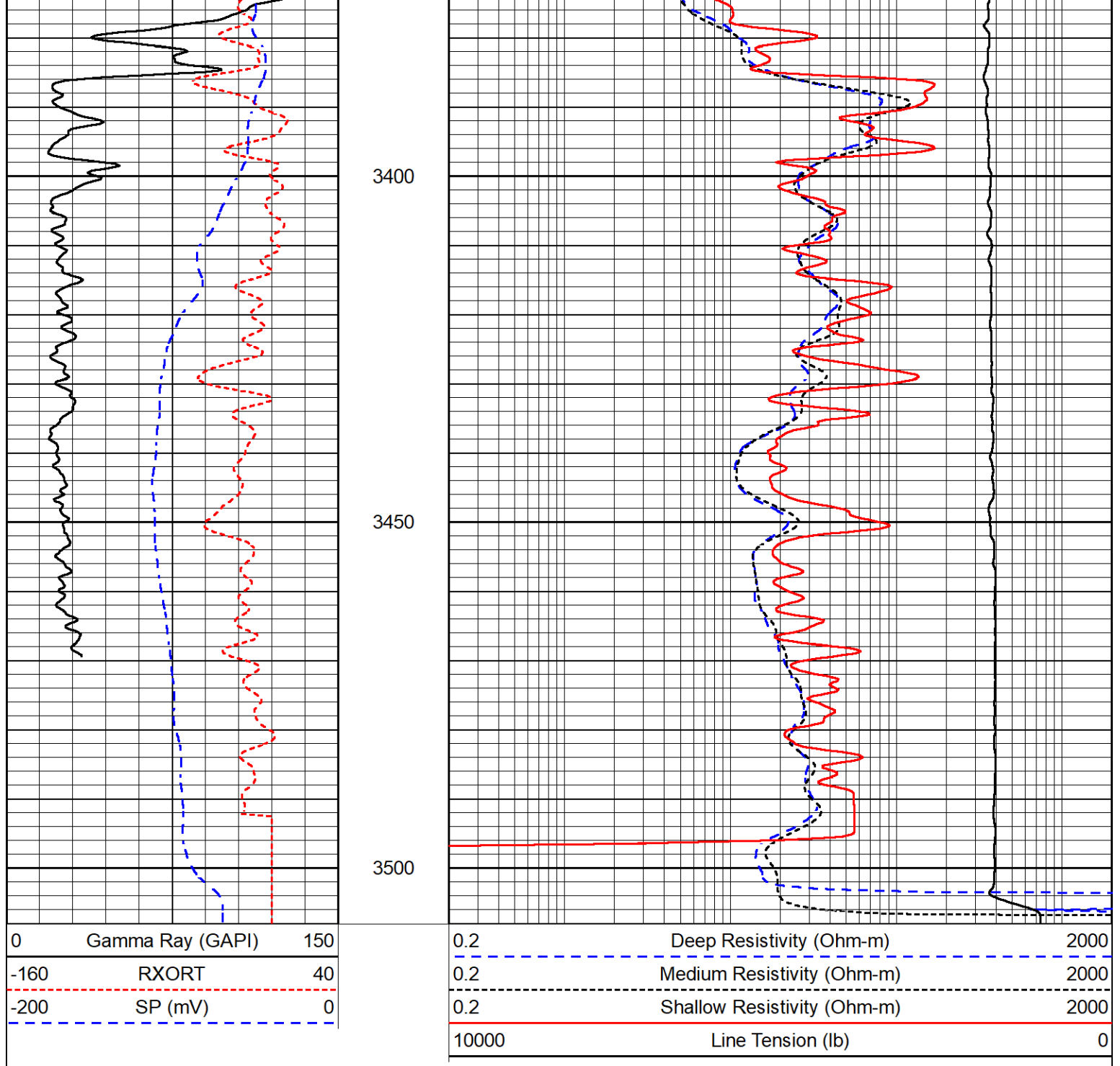
REPEAT PASS

Database File berexco_gene_1.db
 Dataset Pathname stackml/pass2.1
 Presentation Format _dil
 Dataset Creation Mon Feb 14 07:56:38 2022
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

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





Calibration Report							
Database File	berexco_gene_1.db						
Dataset Pathname	stackml/pass4.1						
Dataset Creation	Mon Feb 14 07:58:00 2022						
Dual Induction Calibration Report							
Serial-Model:		504 HT-M&W					
Surface Cal Performed:		Thu Dec 16 22:32:49 2021					
Readings			References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-19.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-45.500

Microlog Calibration Report								
Serial-Model: Performed:			402-PSI STKBL ML Thu Dec 16 22:29:48 2021					
	Readings		References			Results		
	Zero	Cal	Zero	Cal		m	b	
	Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	9000.0000	-1.0000
	Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	6000.0000	0.0000
	Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1520	-131.2000
Compensated Density Calibration Report								
Serial-Model: Source #: Master Calibration Performed:			303-03-M&W 21170B Thu Dec 16 23:28:34 2021					
Master Calibration								
	Density		Far Detector		Near Detector			
	Magnesium	1.755 g/cc	3841.78		5151.73	cps		
	Aluminum	2.670 g/cc	700.98		3068.49	cps		
	Spine Angle = 73.06		Density/Spine Ratio = 0.515					
	Size		Reading					
Small Ring	4.00 in	1.17						
Large Ring	14.00 in	1.05						
Compensated Neutron Calibration Report								
Serial-Model: Source #: Master Calibration Performed:			210-M&W N-1238 Fri Dec 3 09:16:24 2021					
Master Calibration								
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:		103						
Tool Model:		M&W						
Performed:		Fri Dec 3 12:13:24 2021						
Calibrator Value:		500.0	GAPI					
Background Reading:		28.0	cps					
Calibrator Reading:		986.0	cps					
Sensitivity:		0.5700	GAPI/cps					



MIDWEST WIRELINE

Field

County

Russell

State

Kansas