



MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Darrah Oil Company LLC
Well Keller 25C #1
Field Pritchard
County Barton State Kansas

Location: API #: 15-009-26324-00-00
SEC 25 TWP 20S RGE 14W
Permanent Datum Ground Level Elevation 1896
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
CNL/CDL
MEL/BHCS
Elevation
K.B. 1906
D.F.
G.L. 1896

Date	1/18/2022		
Run Number	One		
Depth Driller	3556		
Depth Logger	3550		
Bottom Logged Interval	3549		
Top Log Interval	250		
Casing Driller	8.625 @ 293		
Casing Logger	290		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL			
Density / Viscosity			
pH / Fluid Loss			
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.55 @ 76		
Rmt @ Meas. Temp	.41 @ 76		
Rmc @ Meas. Temp	.74 @ 76		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.37 @ 112		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	112		
Equipment Number	P-108		
Location	HAYS		
Recorded By	J. Henrickson		
Witnessed By	Saman Sharifaie		

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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.

Great Bend Kansas
5 South, East to 30 Rd, 1/2 South,
East Into

Log Measured From: Kelly Bushing

11 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: Saman Sharifaie
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 114	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 380	degF 55	Off	ft 3350

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			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: darrah_keller_25c_1.db: field/well/stackml/pass5.1
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in



MIDWEST WIRELINE

2" SCALE RESISTIVITY

MAIN PASS

Database File darrah_keller_25c_1.db
 Dataset Pathname stackml/pass6.1
 Presentation Format _dil2in
 Dataset Creation Tue Jan 18 09:24:17 2022
 Charted by Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

1000 Conductivity (mmho/m) 0

15000 Line Tension (lb) 0

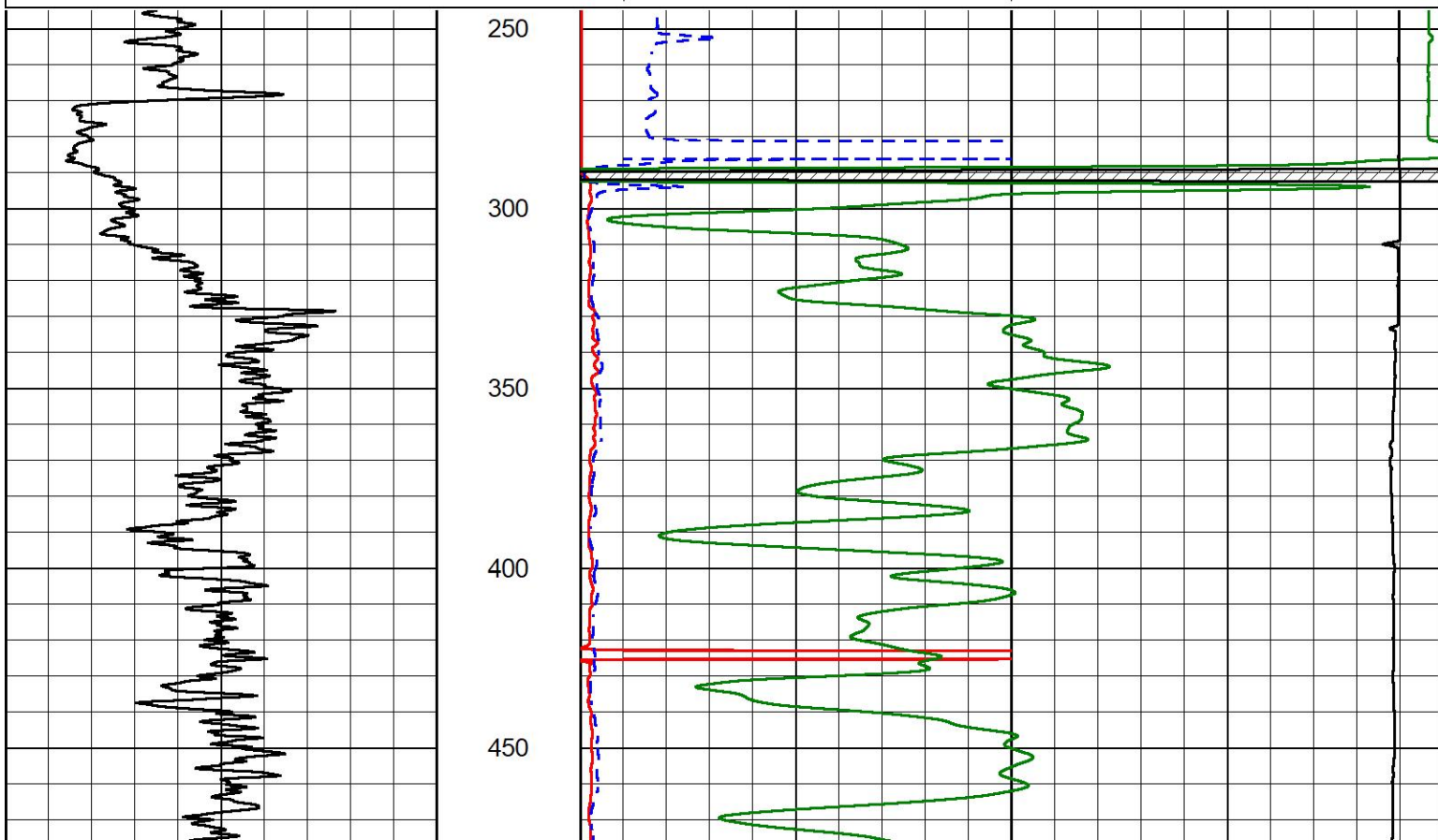
0 Shallow Resistivity (Ohm-m) 50

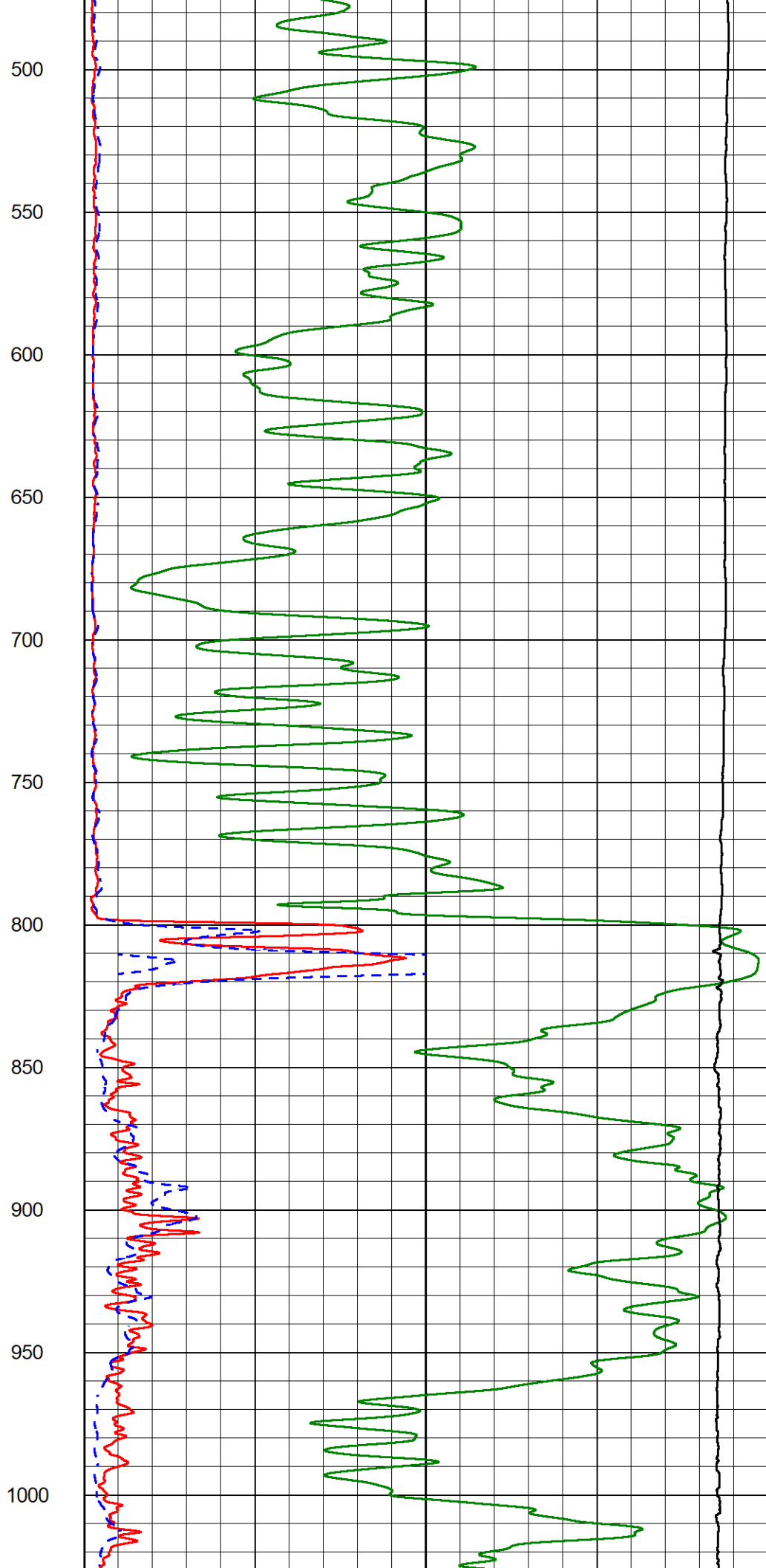
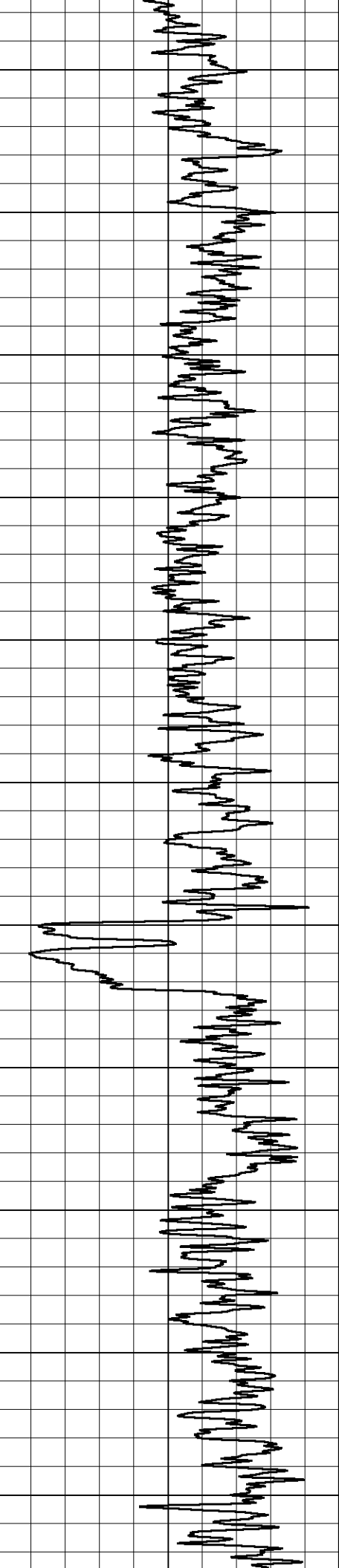
0 Deep Resistivity (Ohm-m) 50

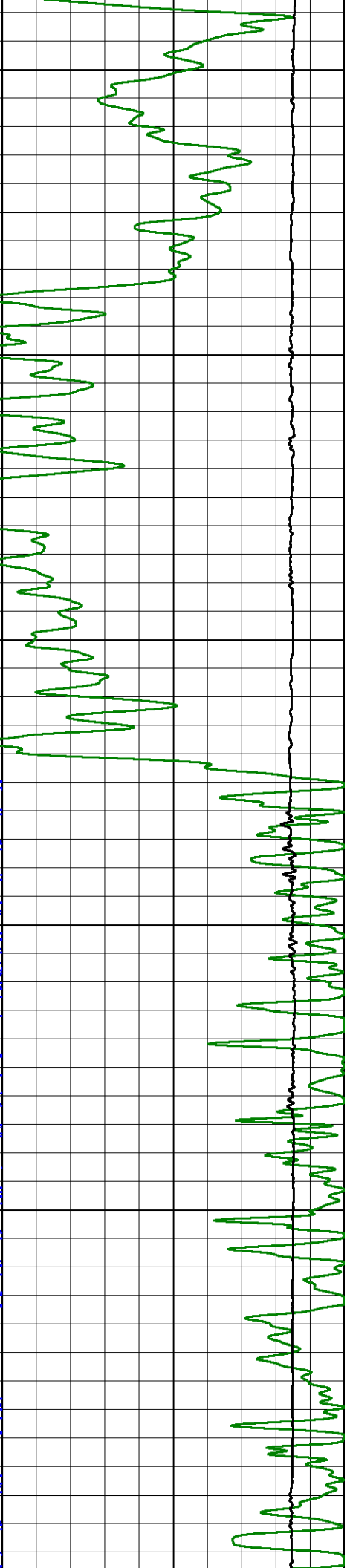
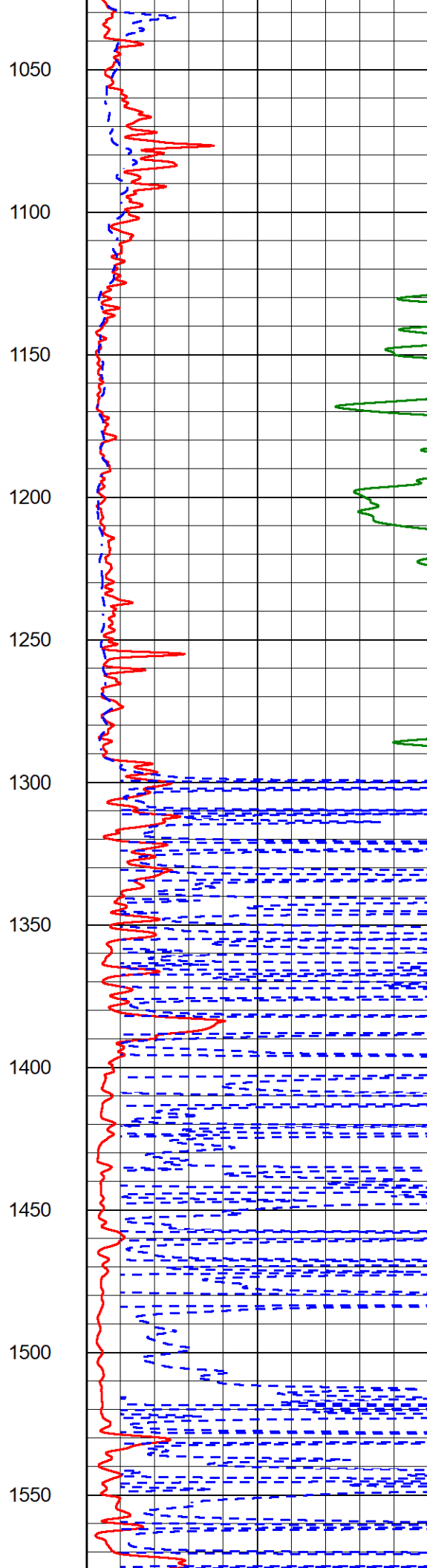
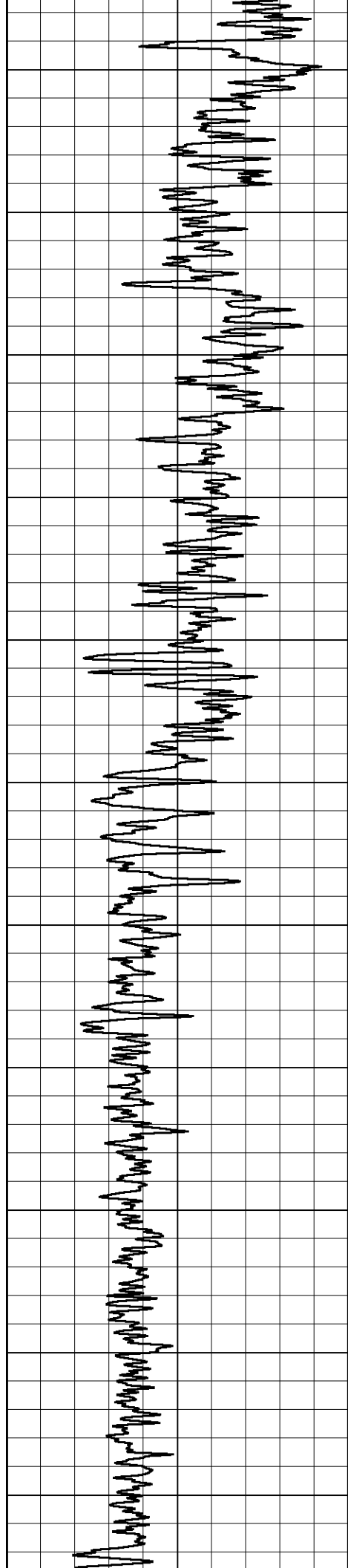
Shallow Resistivity

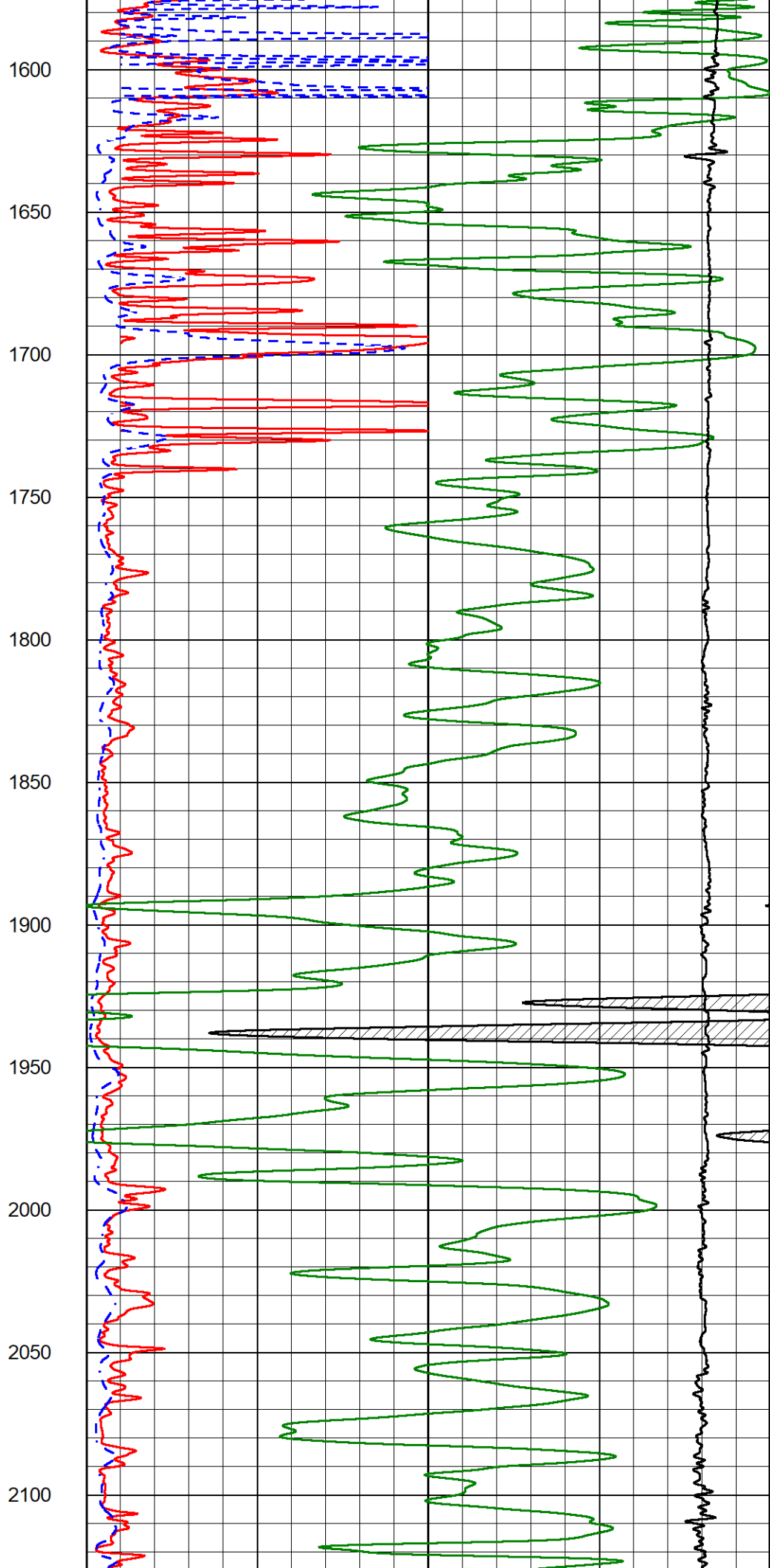
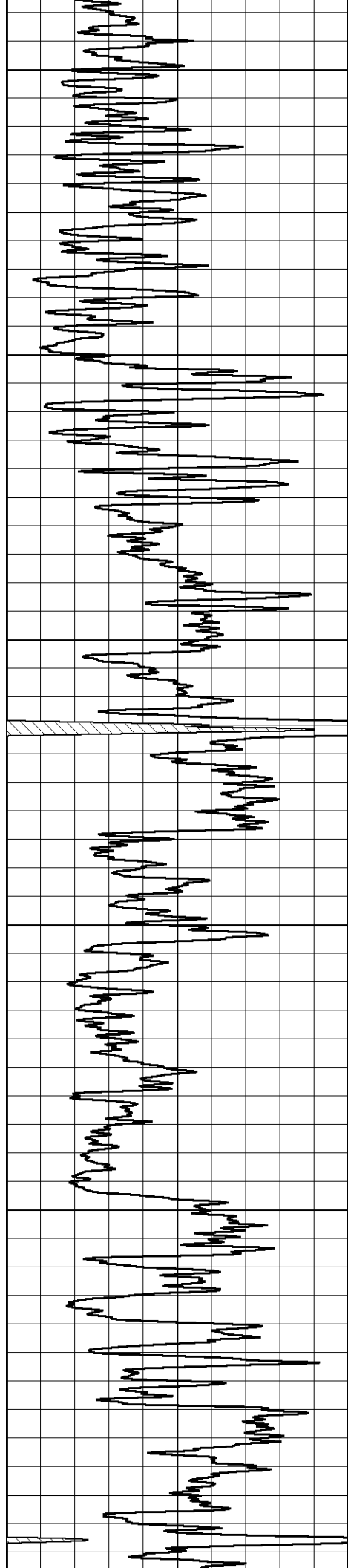
50 (Ohm-m) 200

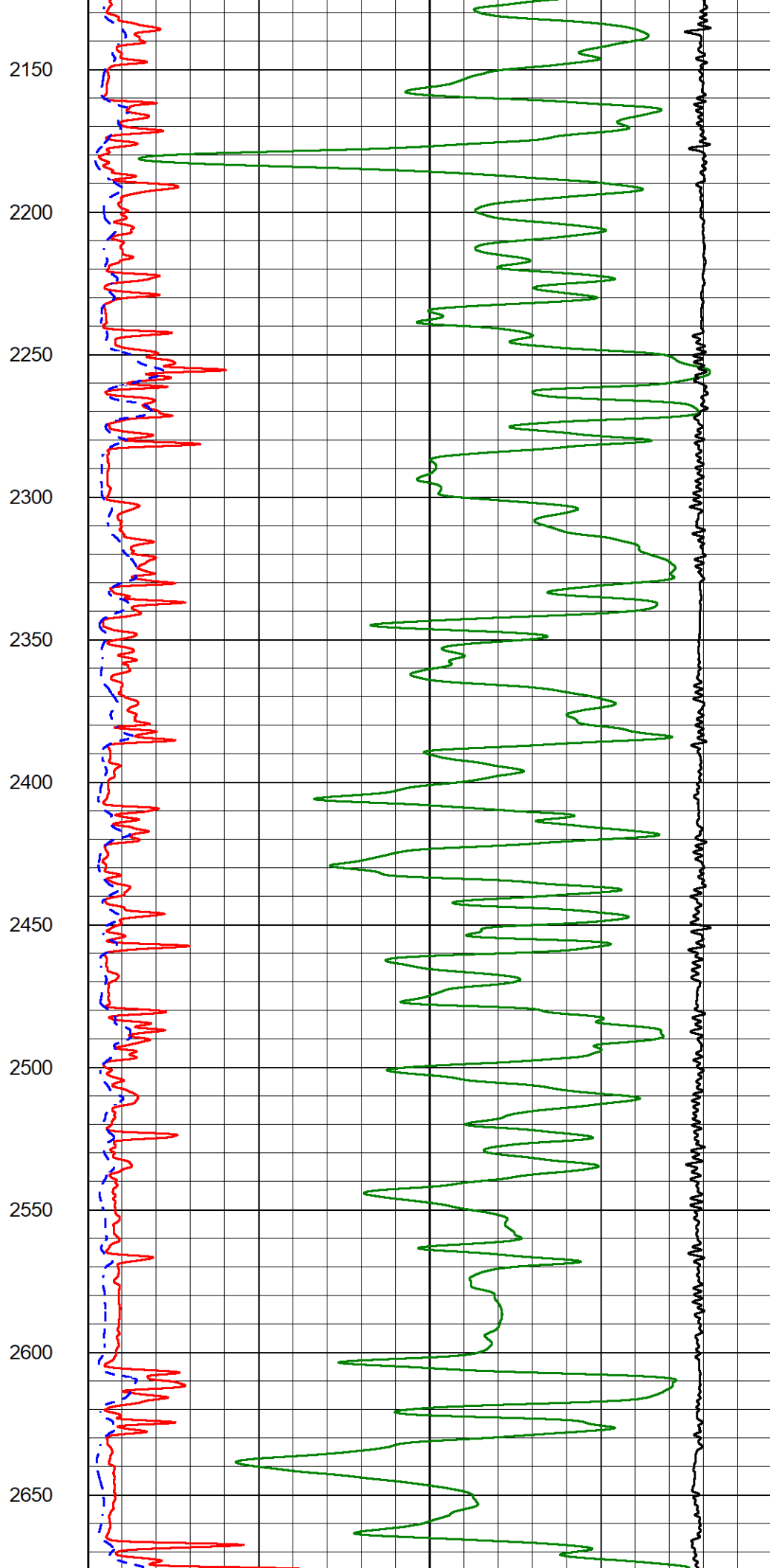
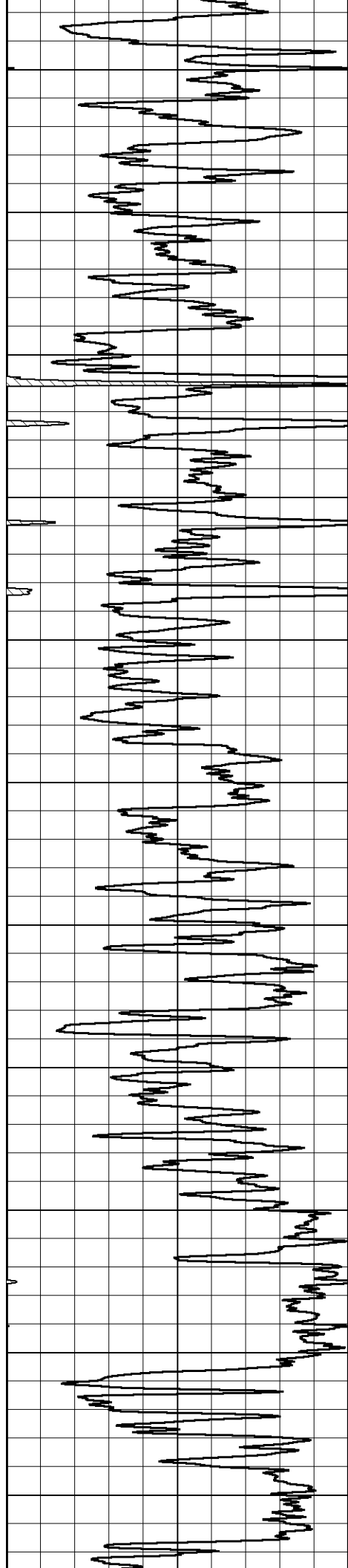
50 Deep Resistivity (Ohm-m) 200

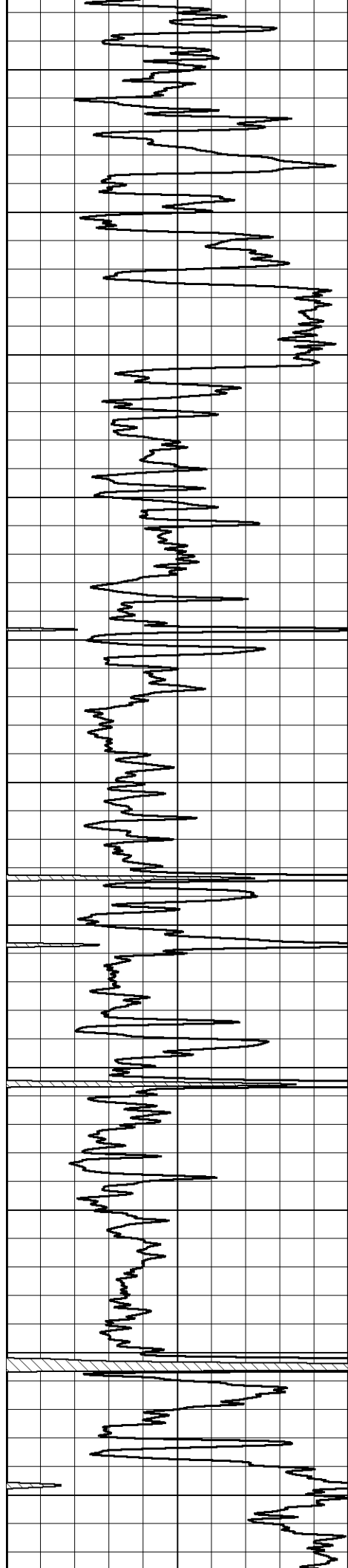












2700

2750

2800

2850

2900

2950

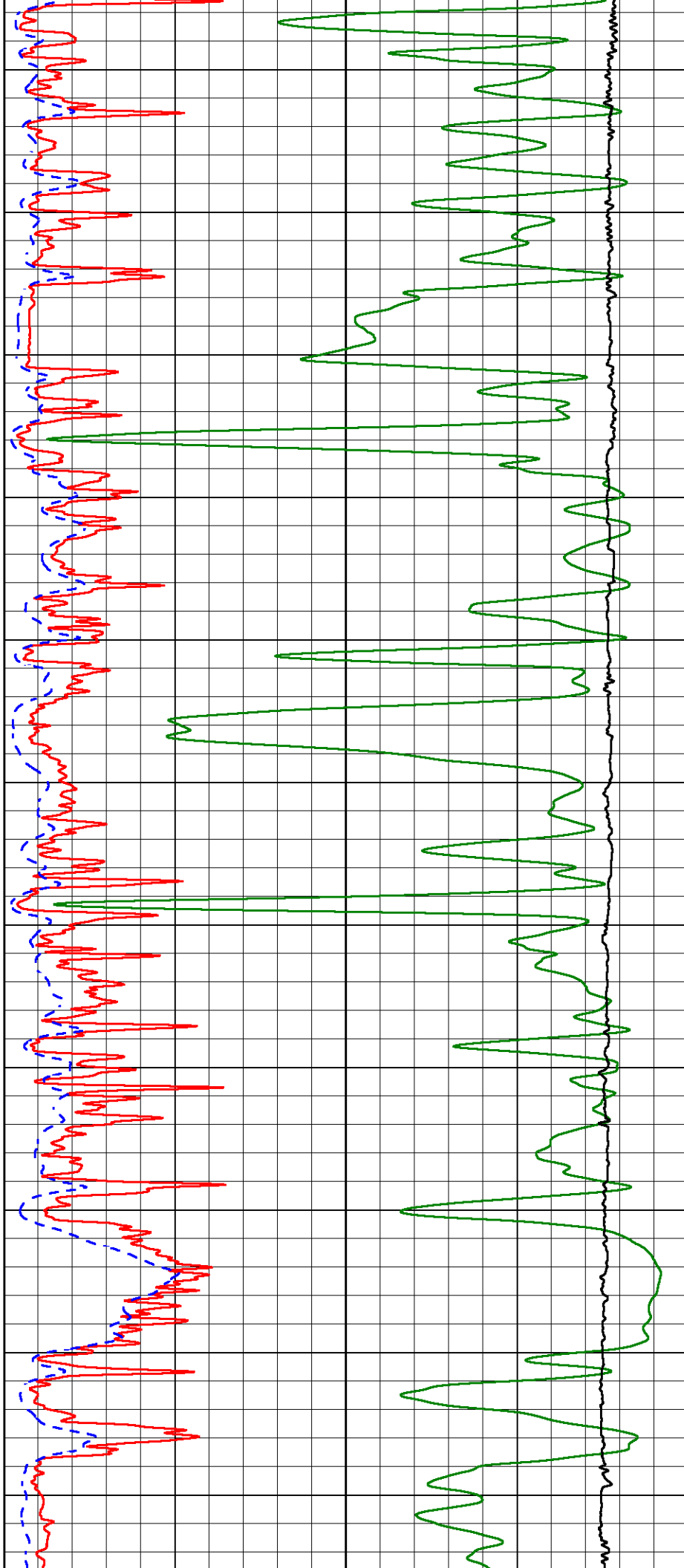
3000

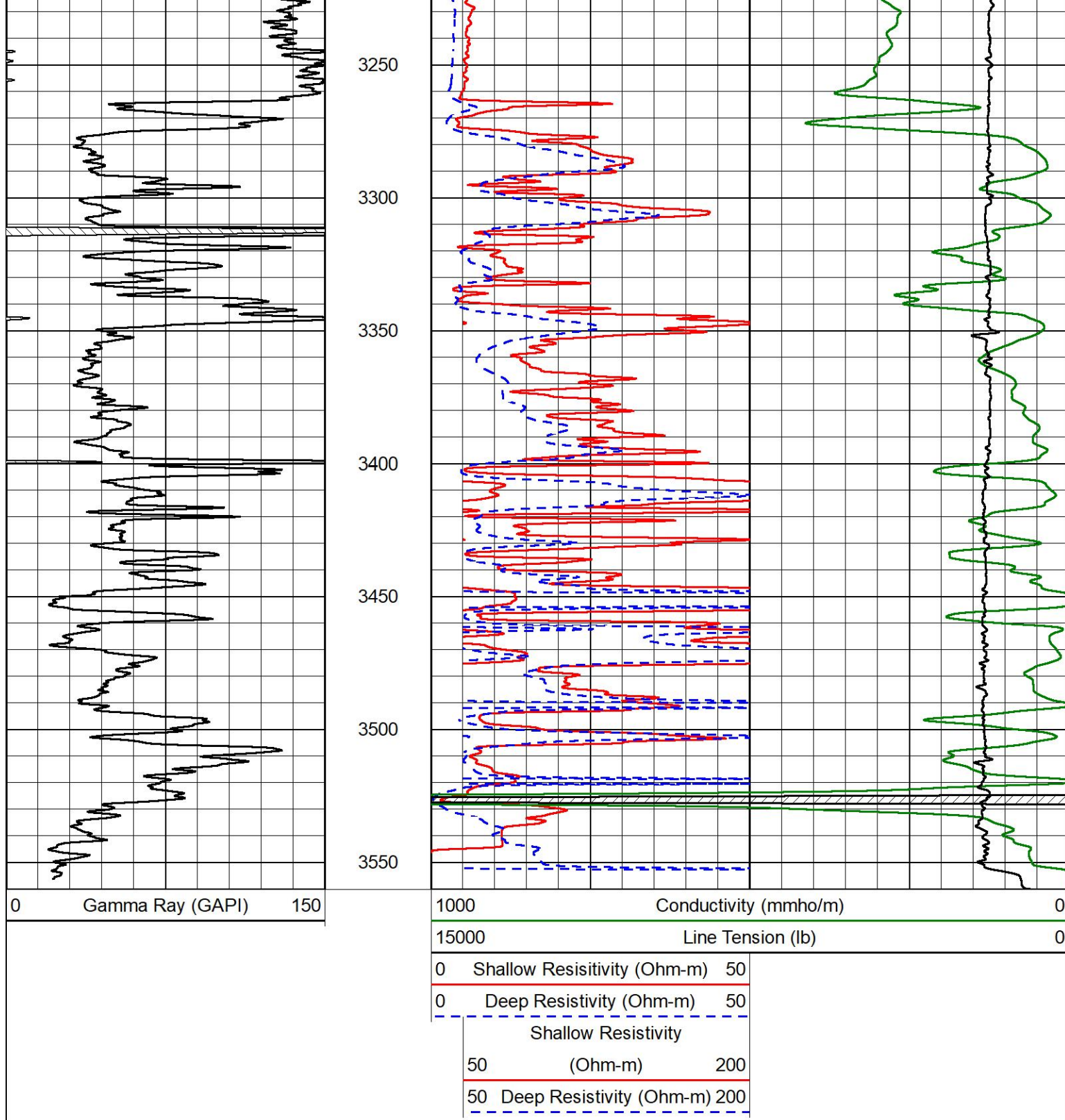
3050

3100

3150

3200





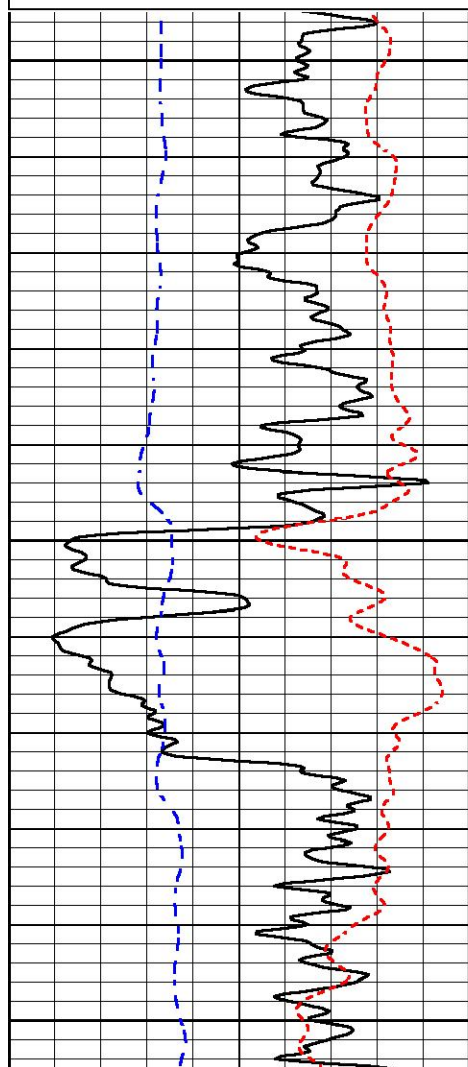
ANHYDRITE SECTION

MAIN PASS

Database File: darrah_keller_25c_1.db
 Dataset Pathname: stackml/pass5.1
 Presentation Format: _dil
 Dataset Creation: Tue Jan 18 09:15:20 2022
 Charted by: Depth in Feet scaled 1:240

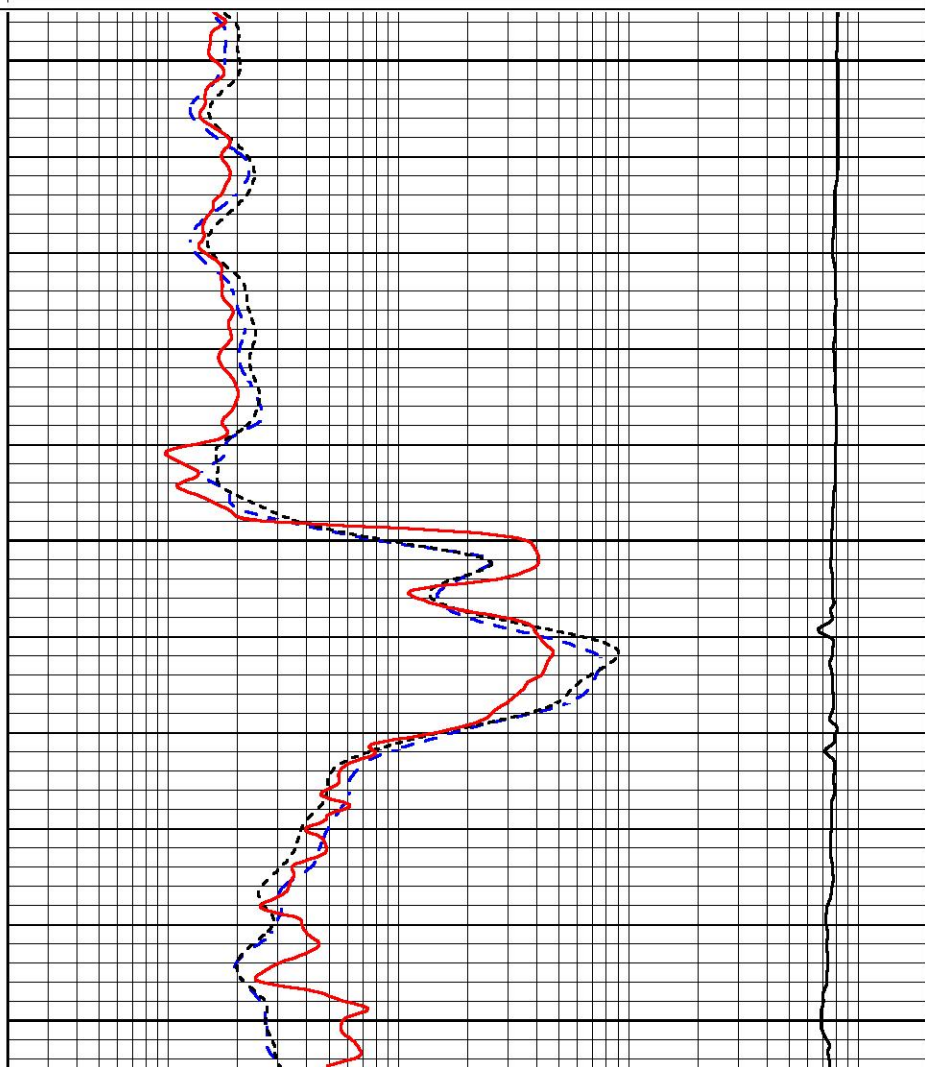


-160	RXORT	40
-200	SP (mV)	0



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

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

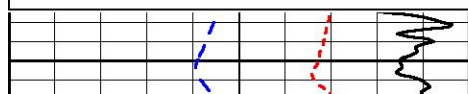


DETAIL SECTION

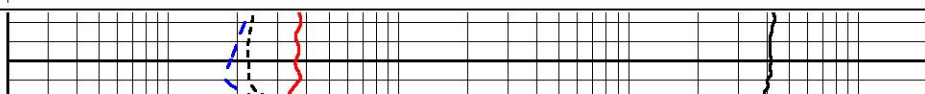
MAIN PASS

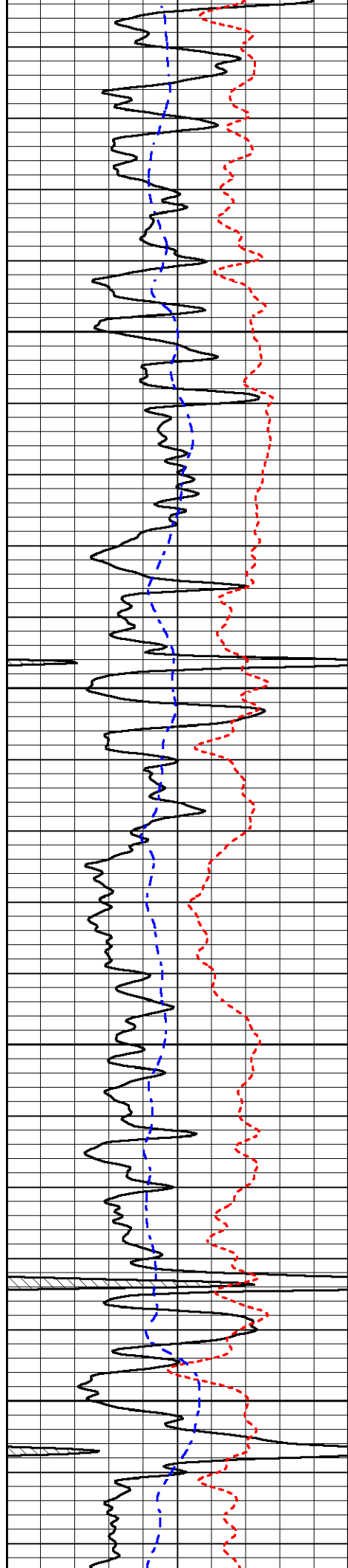
Database File: darrah_keller_25c_1.db
 Dataset Pathname: stackml/pass4.1
 Presentation Format: _dil
 Dataset Creation: Tue Jan 18 09:11:10 2022
 Charted by: Depth in Feet scaled 1:240

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



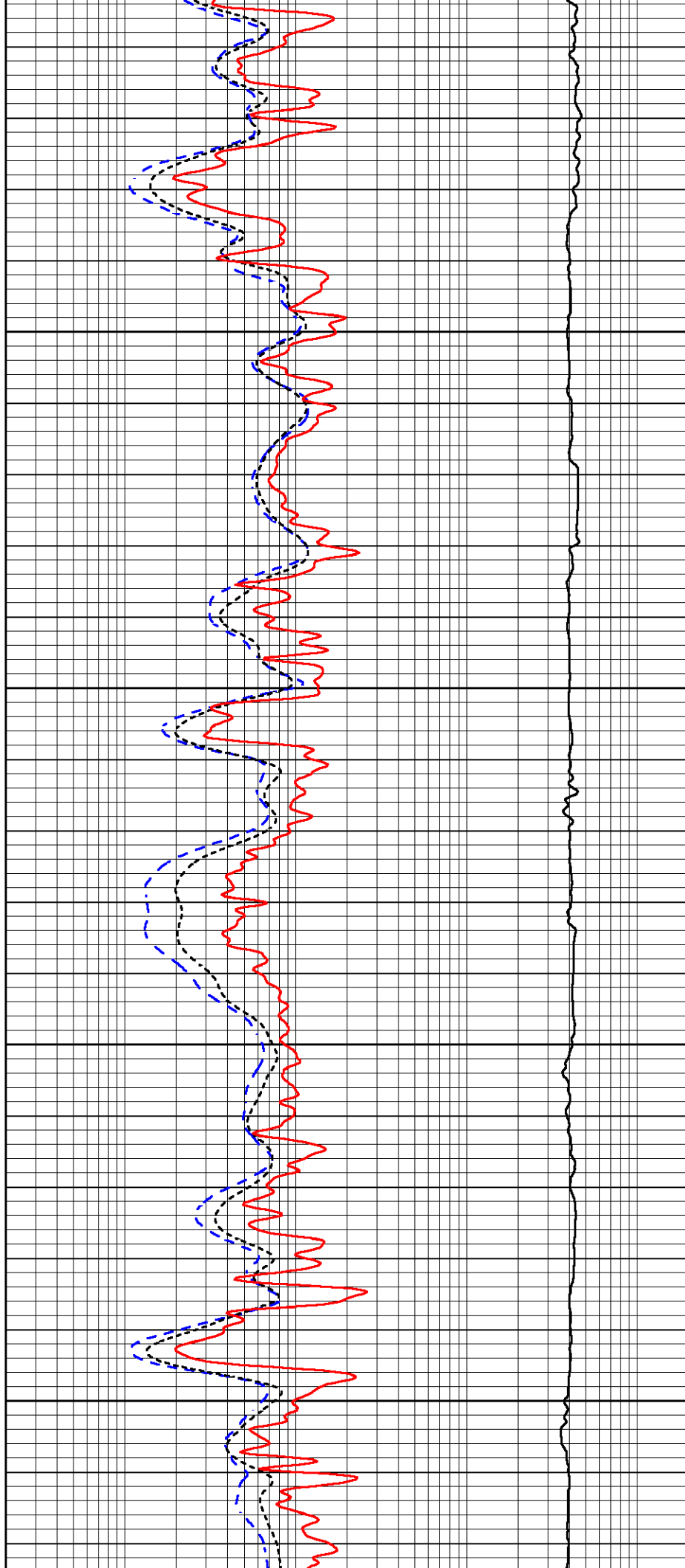


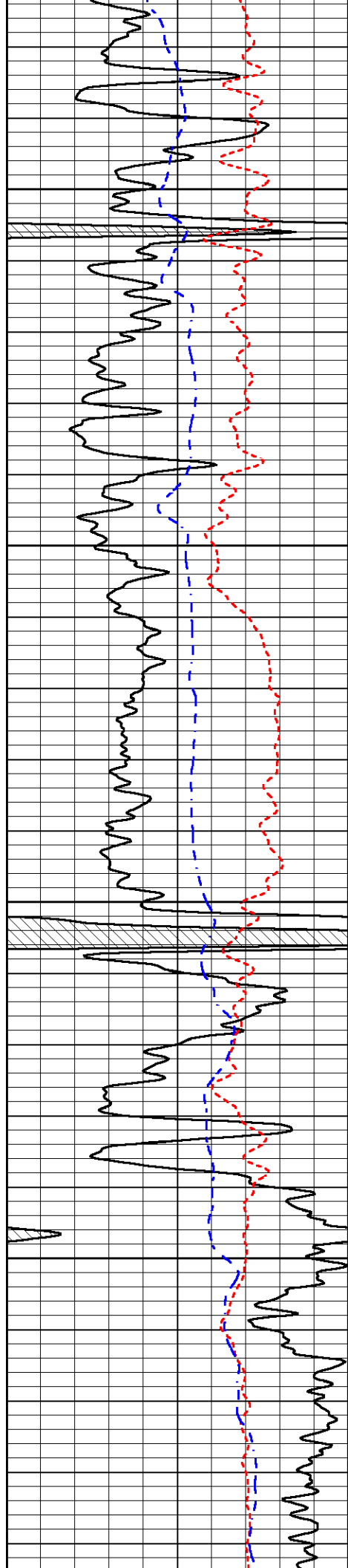
2850

2900

2950

3000



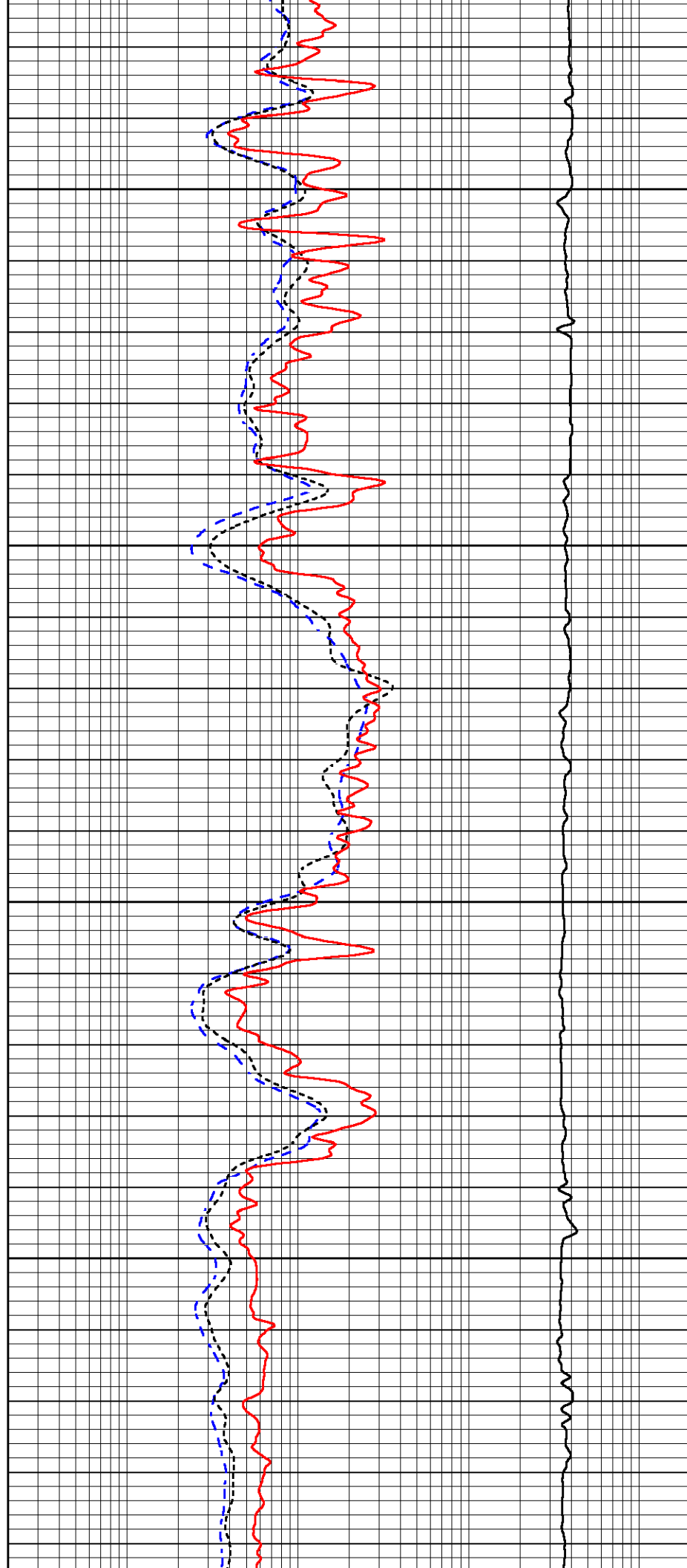


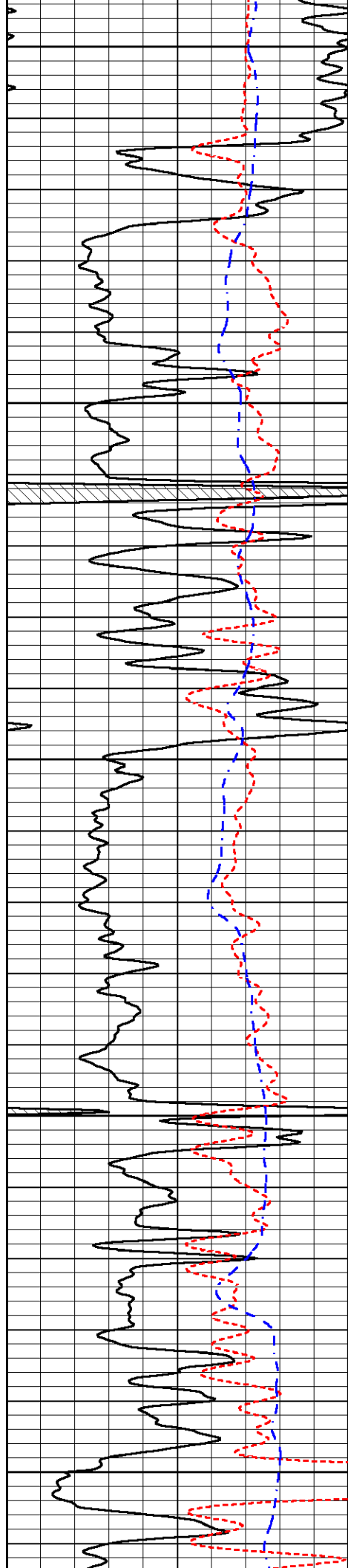
3050

3100

3150

3200





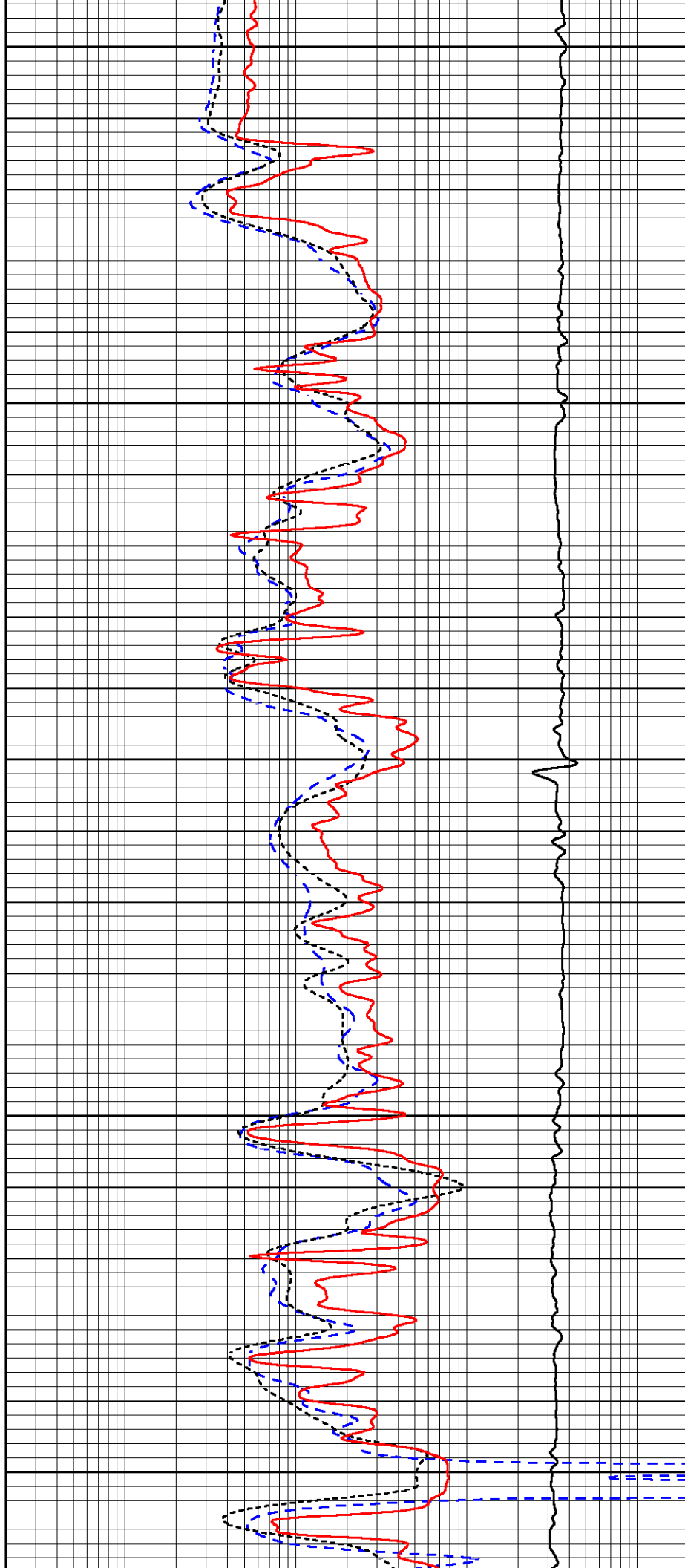
3250

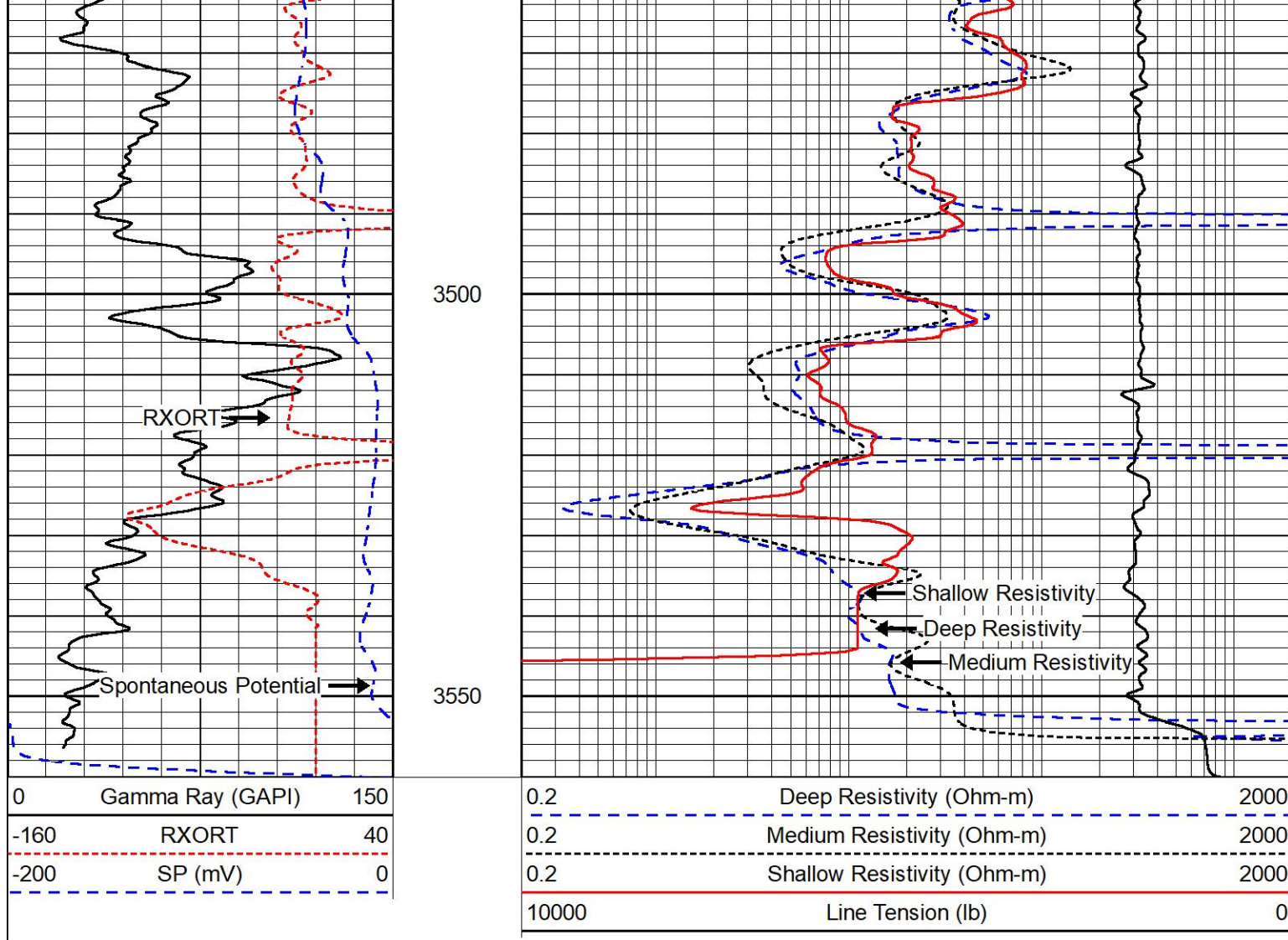
3300

3350

3400

3450





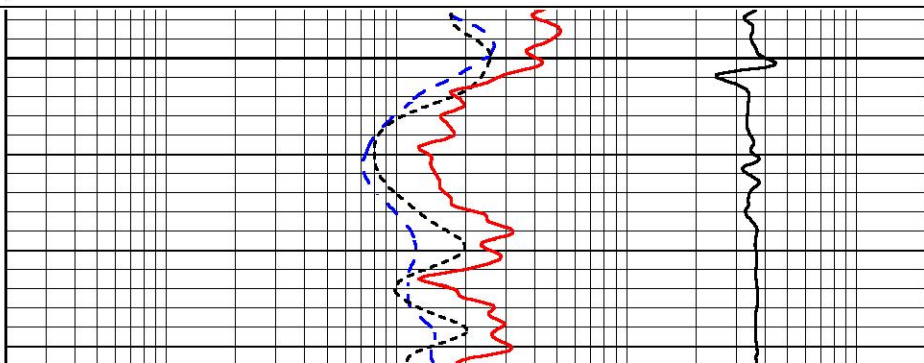
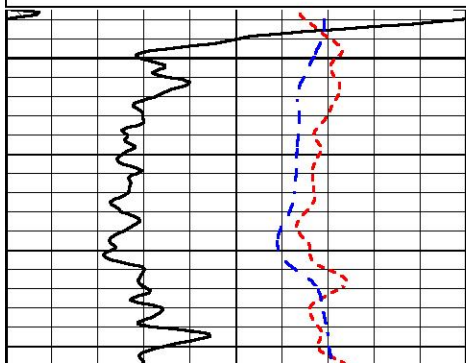
REPEAT SECTION

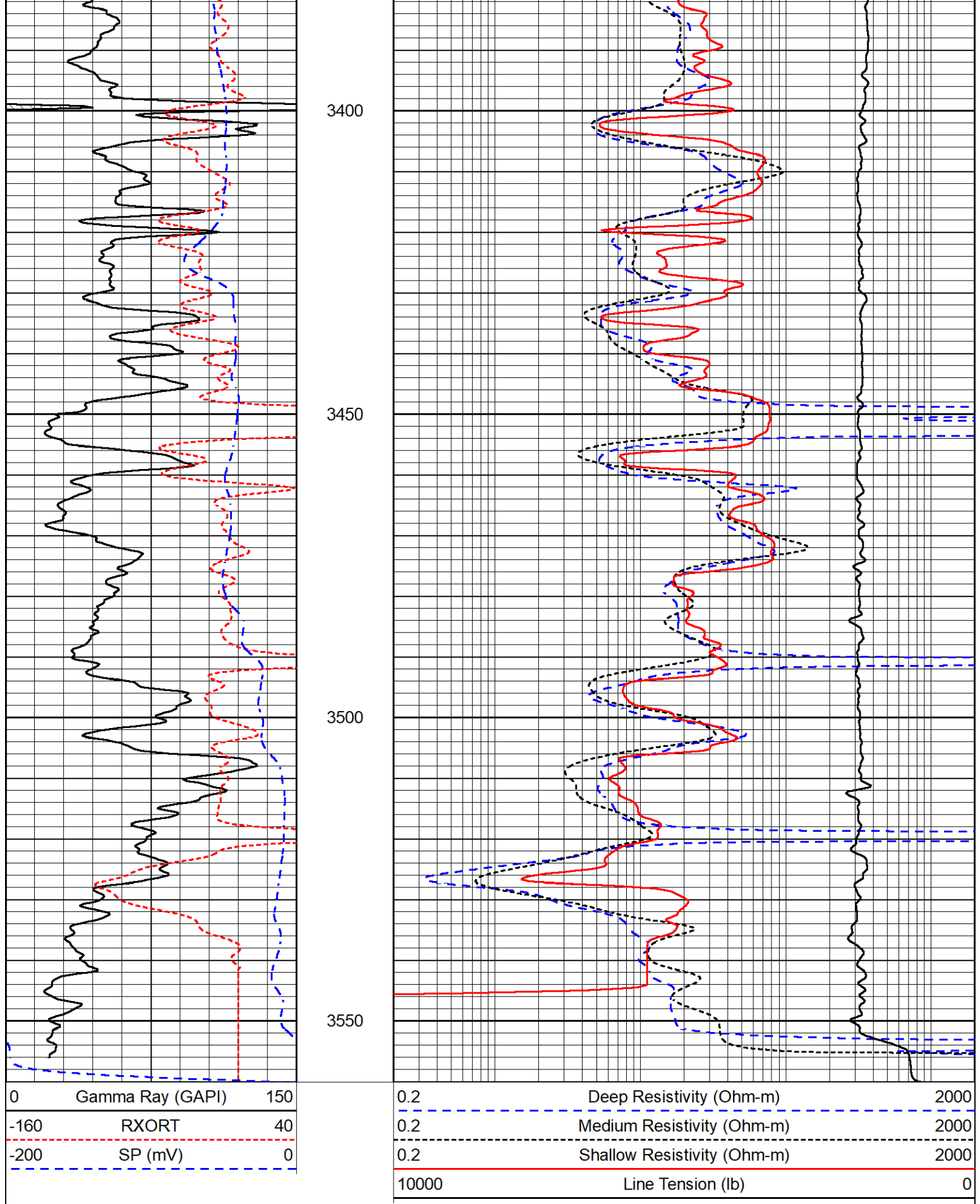
REPEAT PASS

Database File darrah_keller_25c_1.db
 Dataset Pathname stackml/pass2.1
 Presentation Format _dil
 Dataset Creation Tue Jan 18 08:56:41 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 darrah_keller_25c_1.db
Dataset Pathname stackml/pass4.1
Dataset Creation Tue Jan 18 09:11:10 2022

Dual Induction Calibration Report							
Serial-Model: Surface Cal Performed:				504 HT-M&W 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	0.680
Medium	161.982	1441.110		0.000	255.800	mmho/m	-5.000
							-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	45000.0000
Inverse	0.1208	0.0013		0.0000	10.0000	Ohm-m	-1.0000
Caliper	1.0020	1.0834		5.5000	16.5000	in	40000.0000
							0.0000
							135.1520
							-131.2000

Compensated Density Calibration Report					
Serial-Model:		303-03-M&W			
Source #:		21170B			
Master Calibration Performed:		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:			210-M&W			
Source #:			N-1238			
Master Calibration Performed:			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: Tool Model:				103 M&W			

Tool Model:
Performed:

M&W
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



Company

Darrah Oil Company LLC

Well

Keller 25C #1

Field

Pritchard

County

Barton

State

Kansas