



MIDWEST WIRELINE

DUAL INDUCTION
LOG

Company Castle Resources, Inc.		Company Castle Resources, Inc.	
Well	Pfeifer #2	Well	Pfeifer #2
Field	Ellis	Field	Ellis
County	Ellis	County	Ellis
State	Kansas	State	Kansas
Location: API #: 15-051-27012-00-00		Other Services	
SEC 32 TWP 12S RGE 20W		CNL CDL MEL	
Permanent Datum	Ground Level	Elevation	2191
Log Measured From	Kelly Bushing	K.B.	2196
Drilling Measured From	Kelly Bushing	D.F.	
		G.L.	2191
Date	9/19/2021		
Run Number	One		
Depth Driller	3925		
Depth Logger	3928		
Bottom Logged Interval	3927		
Top Log Interval	200		
Casing Driller	8.625 @ 224		
Casing Logger	226		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	7000		
Density / Viscosity	9.4 55		
pH / Fluid Loss	7.9 11.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.3 @ 85		
Rmt @ Meas. Temp	.23 @ 85		
Rmc @ Meas. Temp	.41 @ 85		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.22 @ 115		
Operating Rig Time	2 Hours		
Max Rec. Temp. F	115		
Equipment Number	P-24		
Location	HAYS		
Recorded By	D Schmidt	C McLaughlin	
Witnessed By	Jerry Green		

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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.

Ellis
1/2 N 1W 3/4N
E into

Log Measured From: Kelly Bushing 5 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: Jerry Green	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (233-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73			CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93			CDL-M&W (126-4040)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83			ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80						
CILD	8.00			DIL-PSI HIGH TEMP (952-828)	18.50	3.50	220.00
CILM	4.70						
SP	0.20						
Dataset: castle_pfeifer_2.db: field/well/stack/pass3.4 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\castle_pfeifer_2.db
Dataset field/well/stack/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	115	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	0	155	85	Off	3928

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

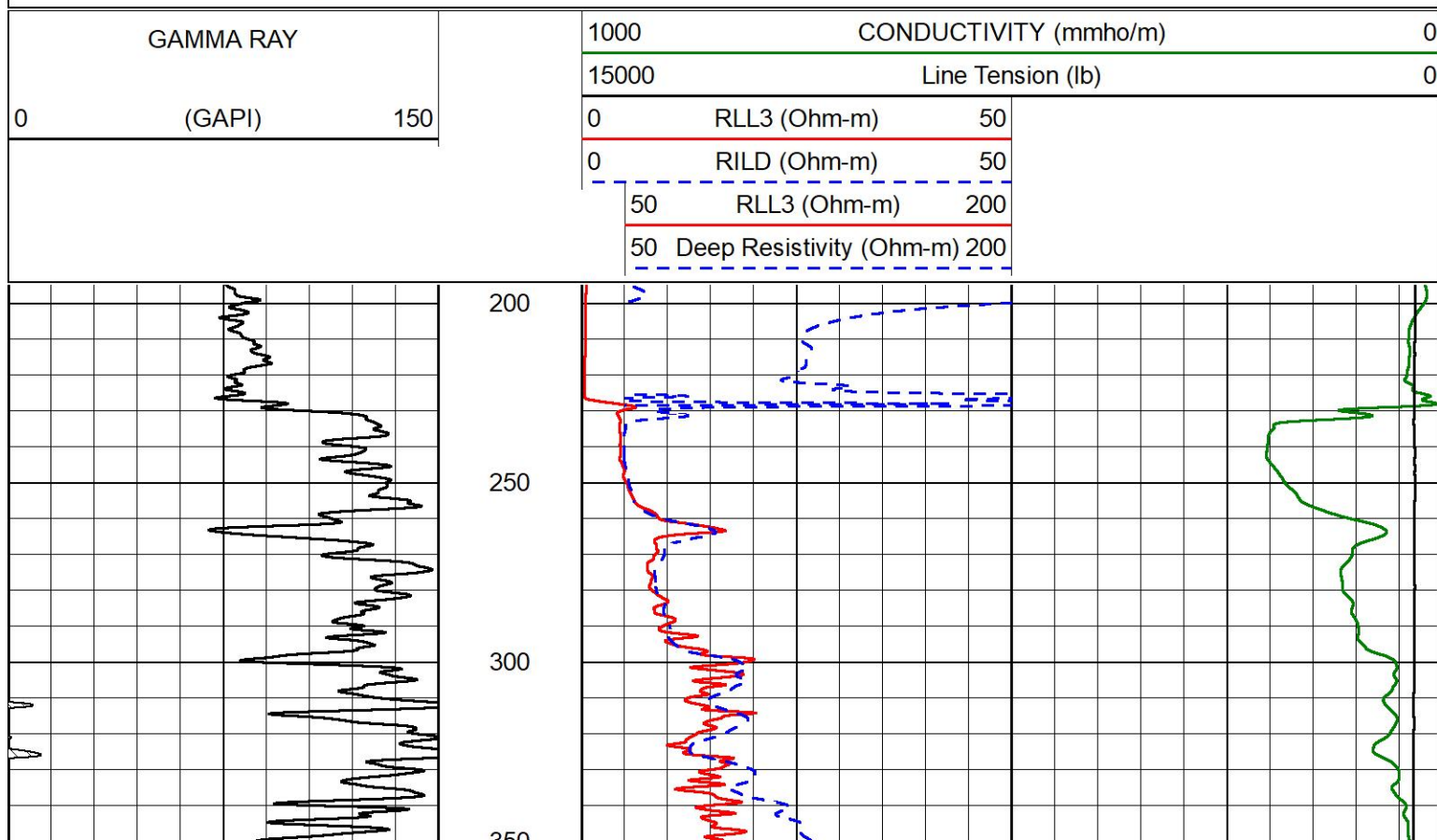
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

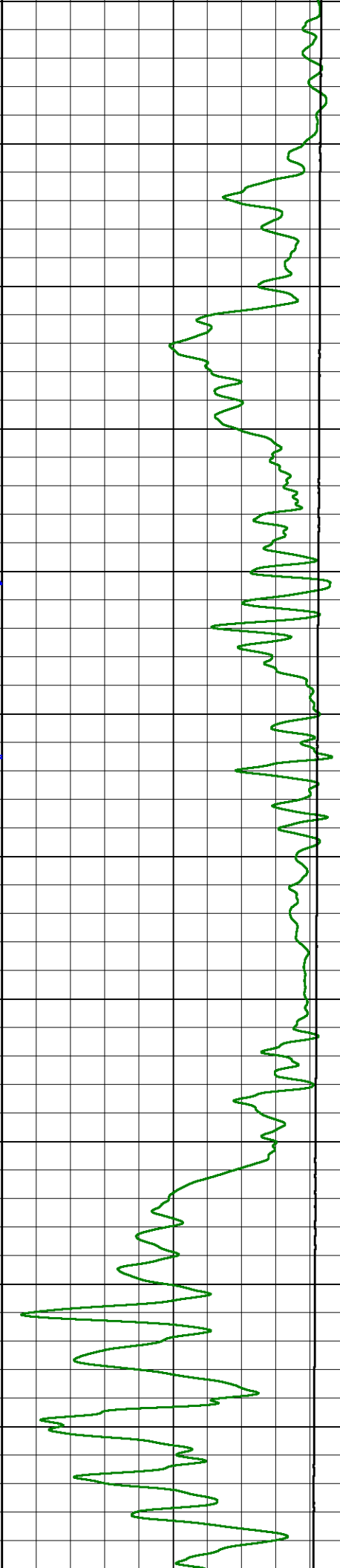
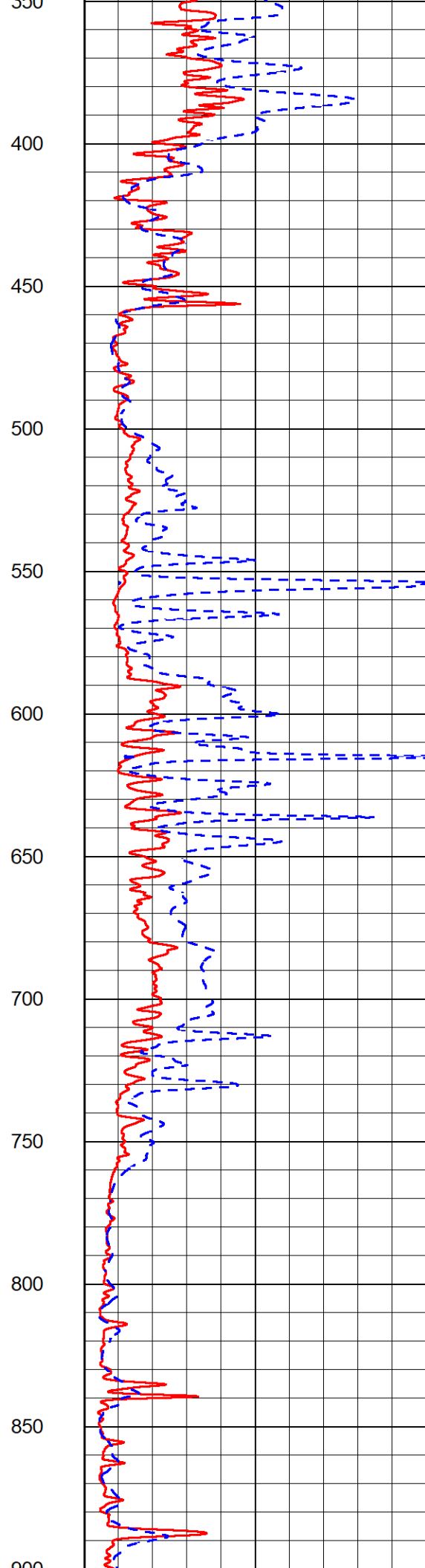
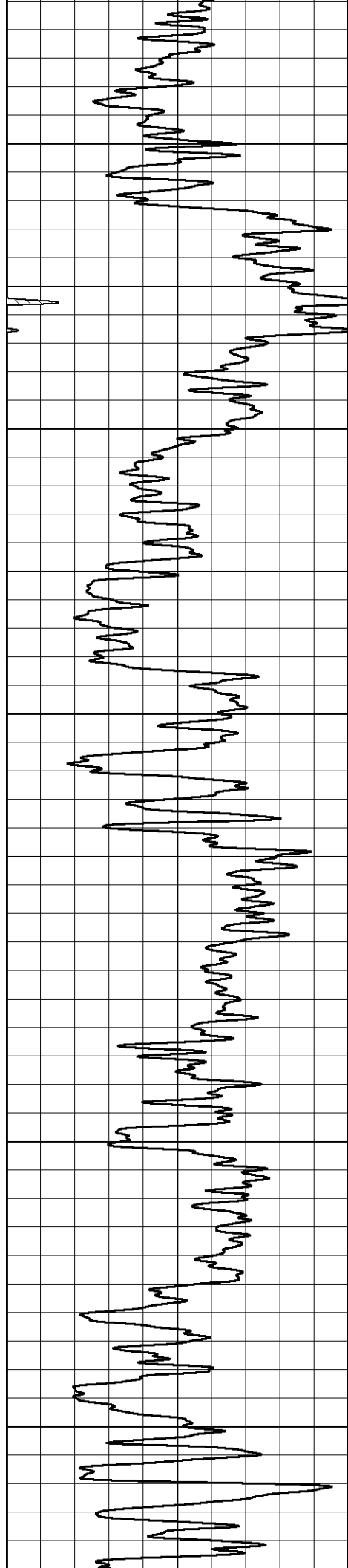


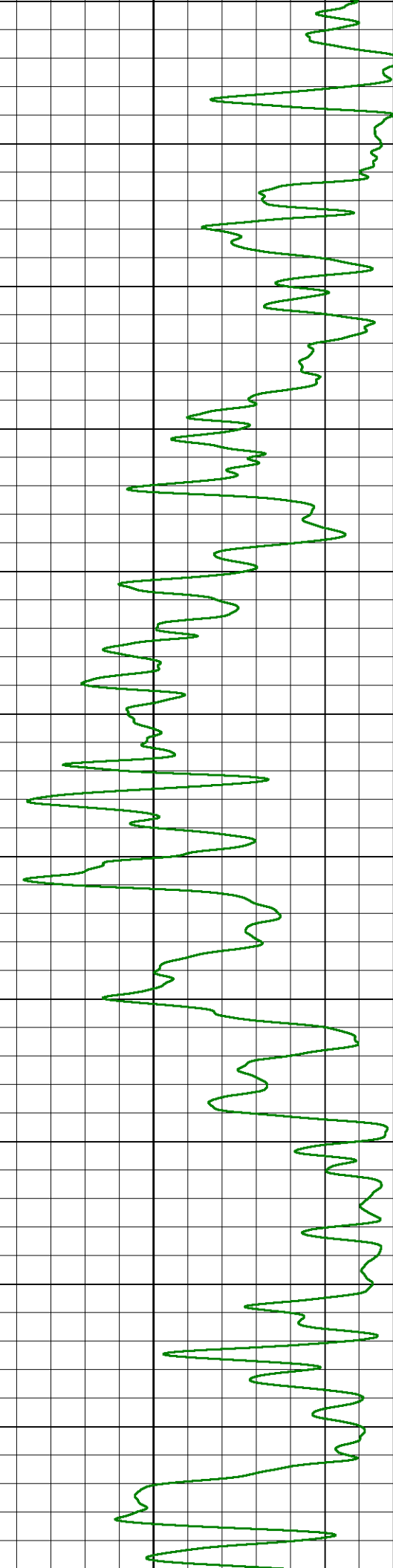
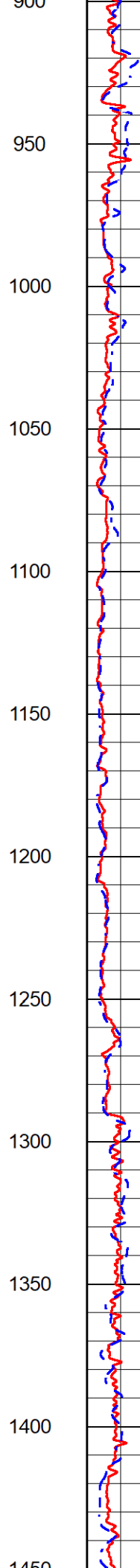
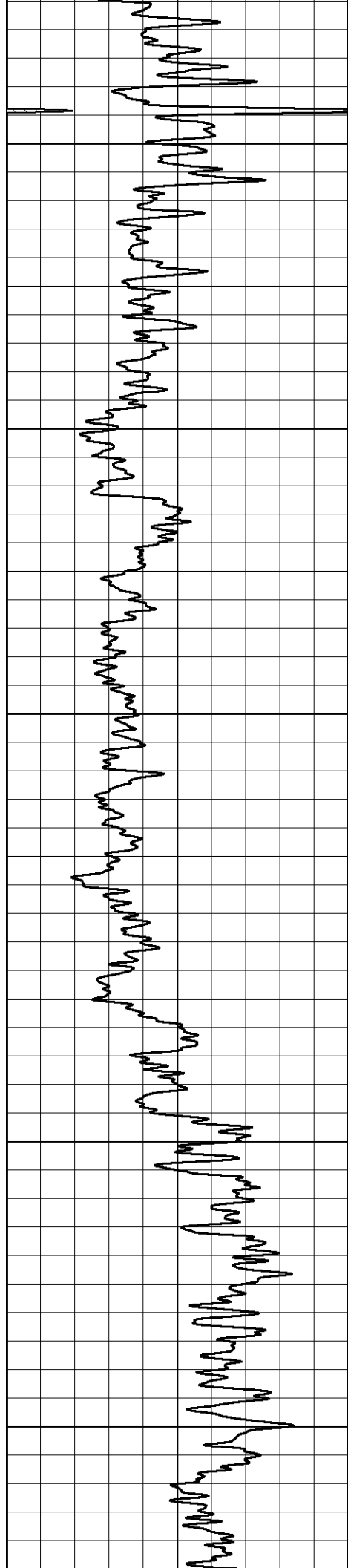
2" SCALE RESISTIVITY

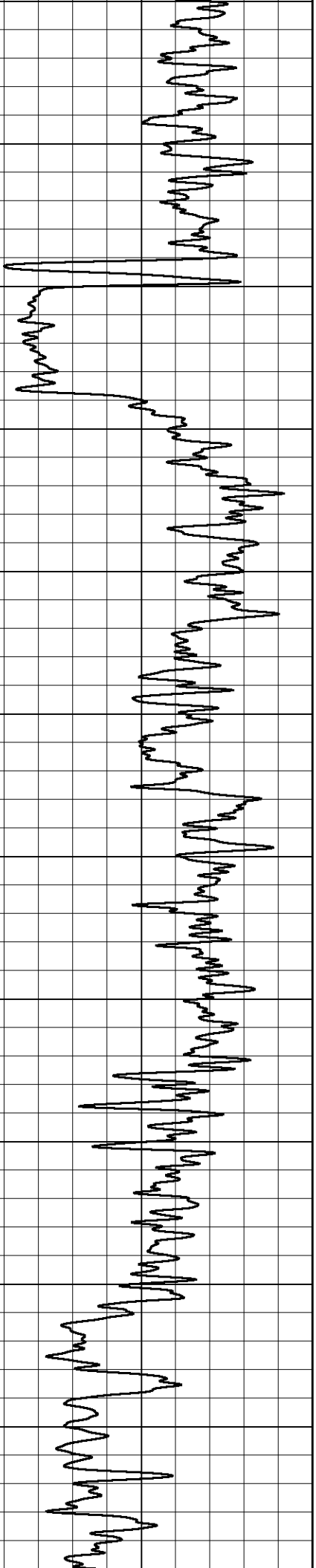
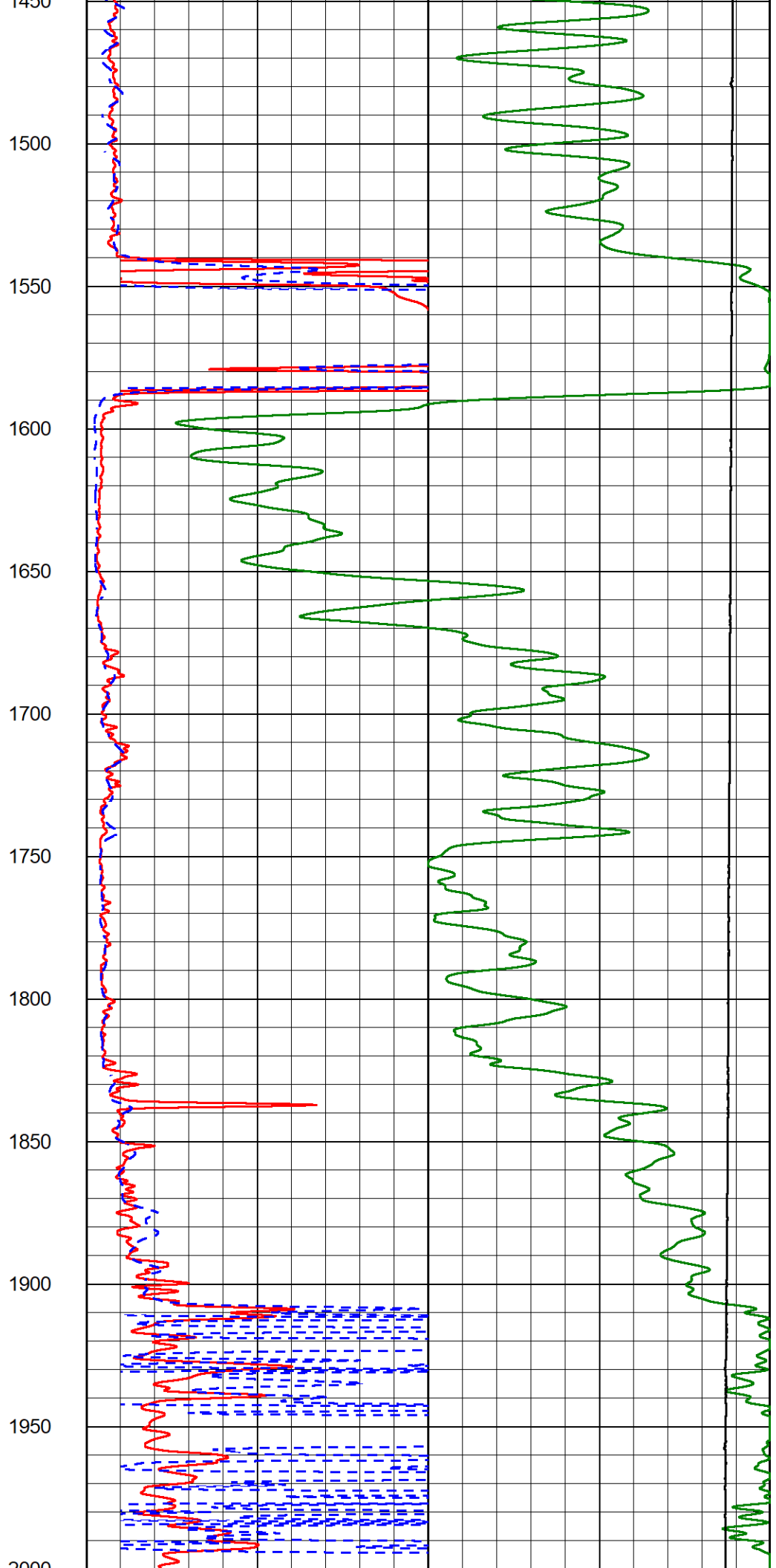
MAIN PASS

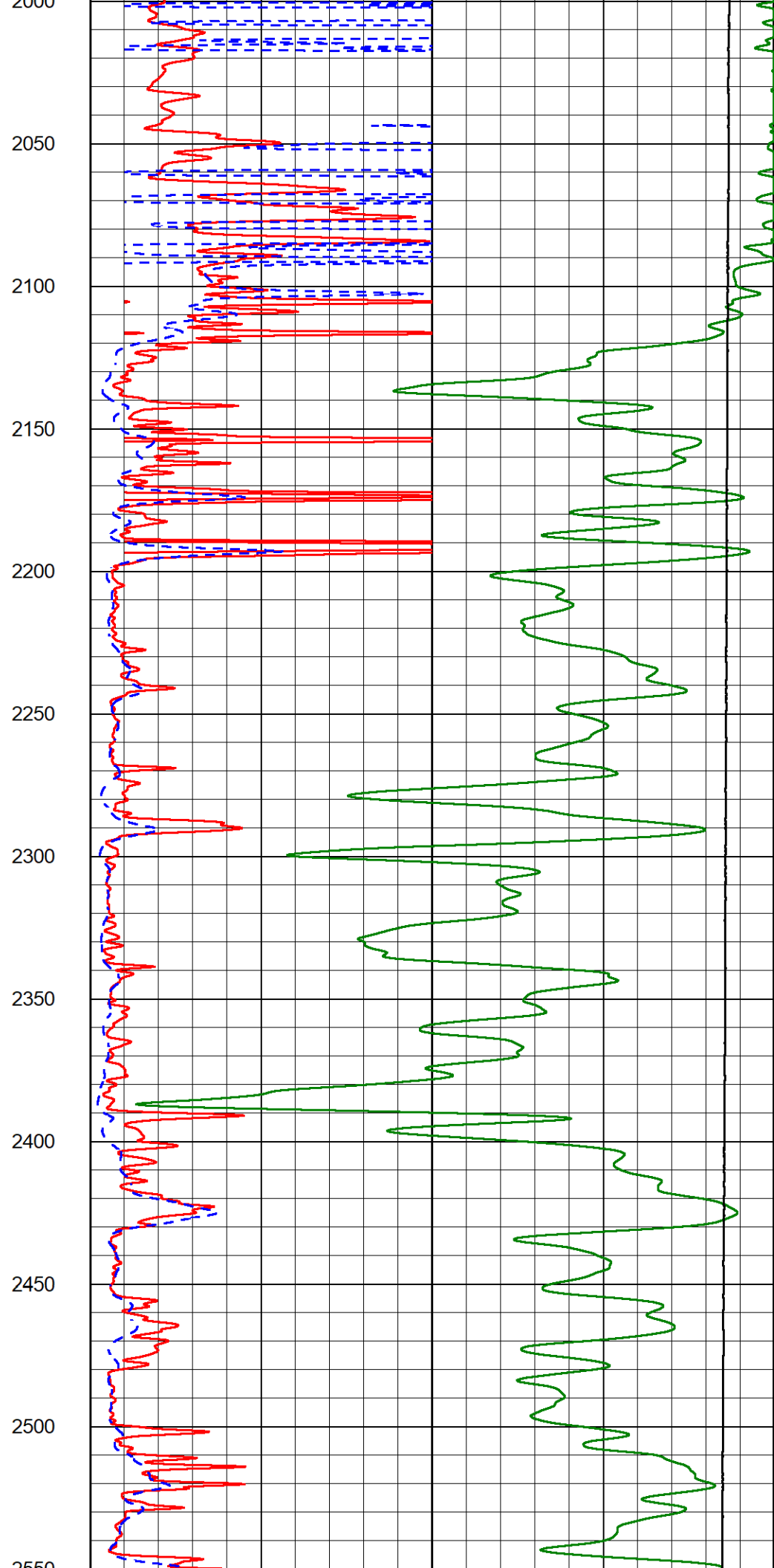
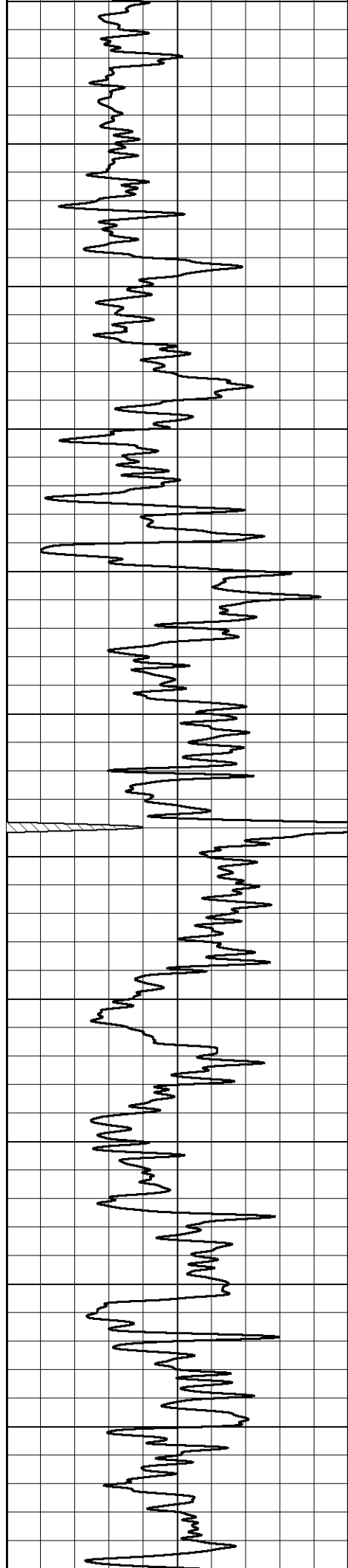
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Charted by Depth in Feet scaled 1:600

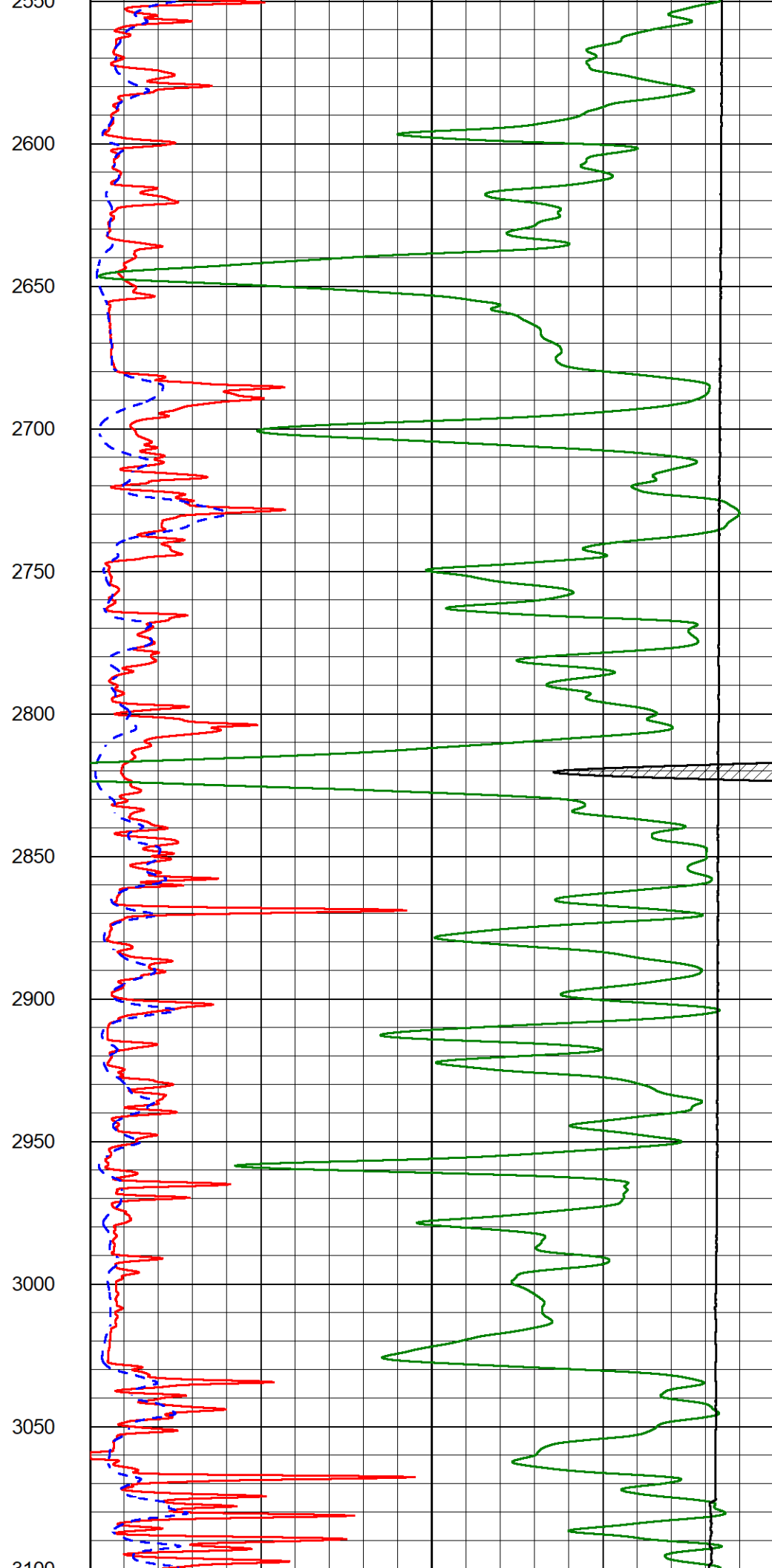
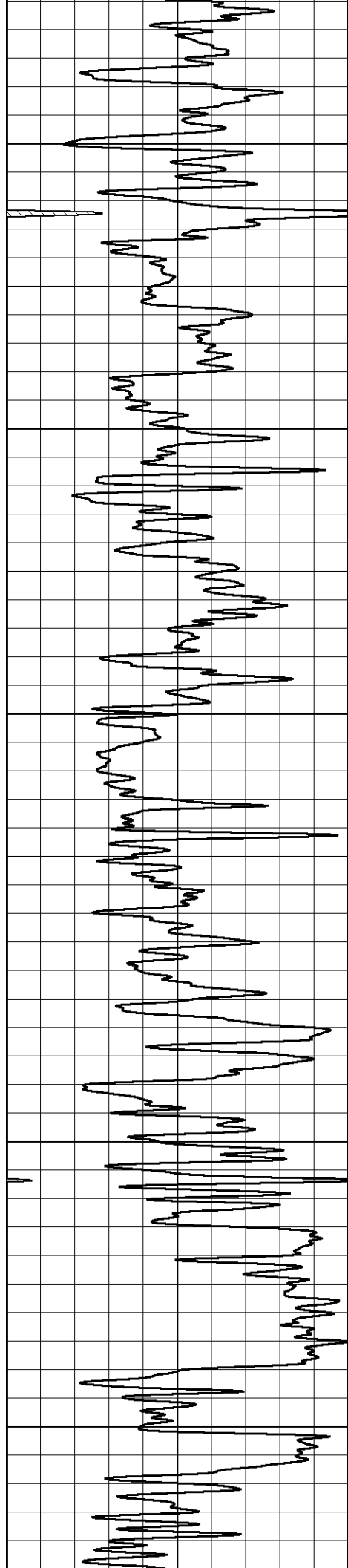


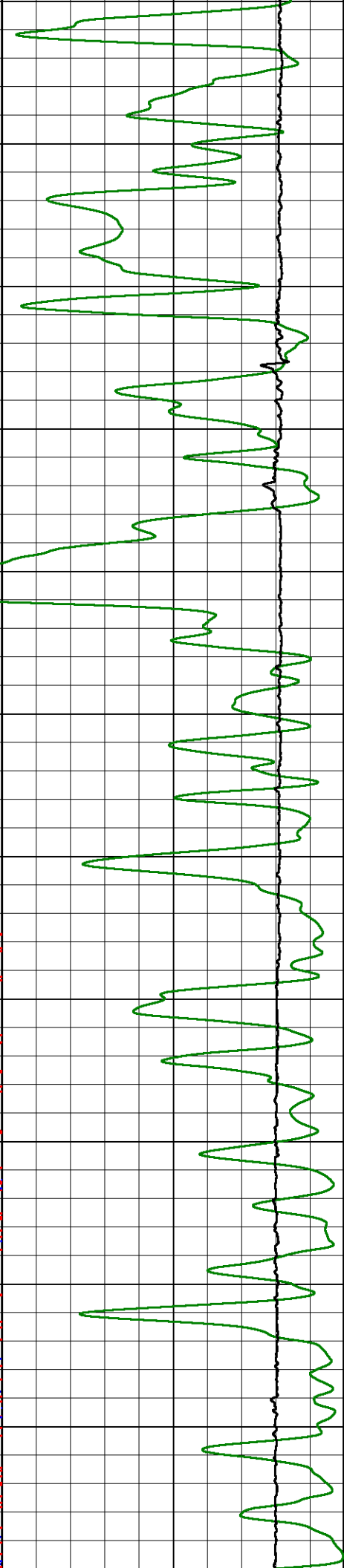
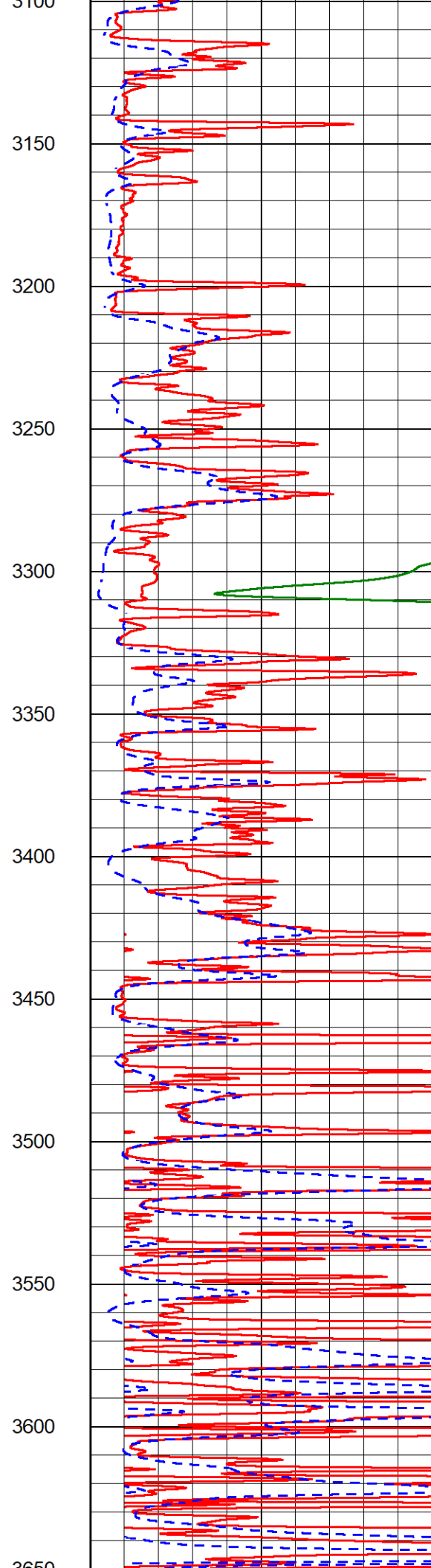
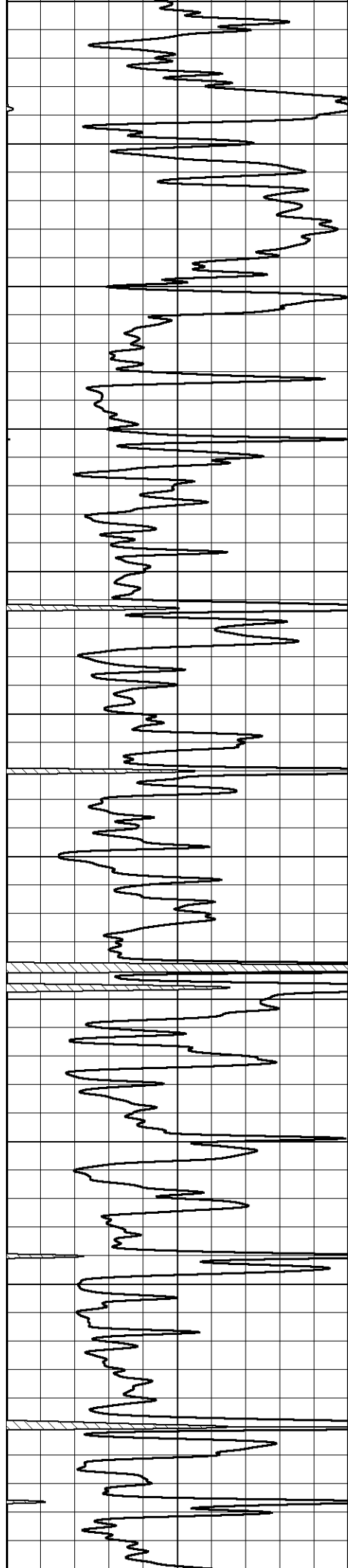


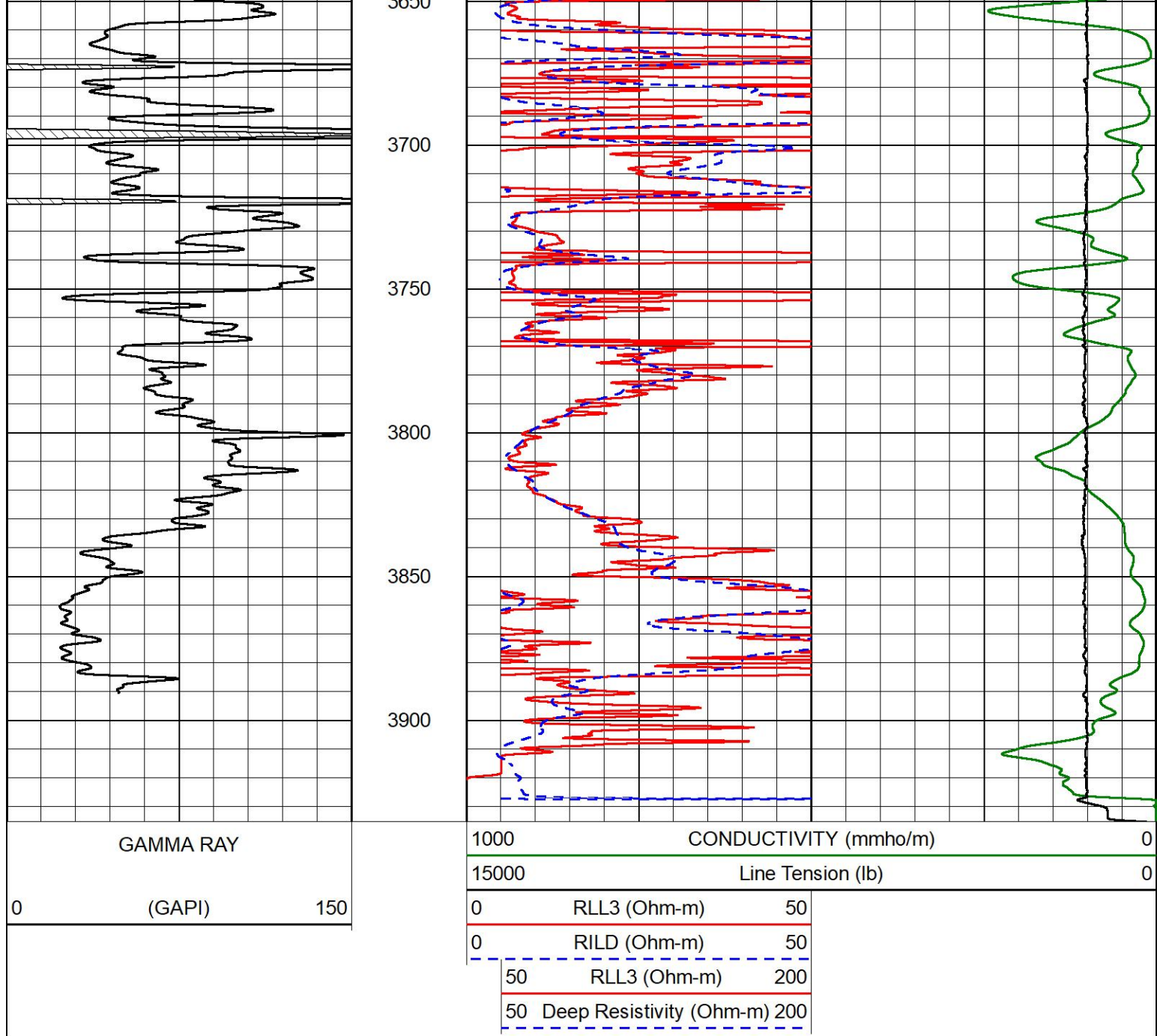












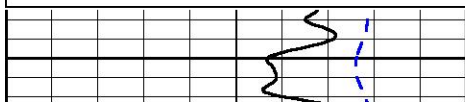
ANHYDRITE SECTION

MAIN PASS

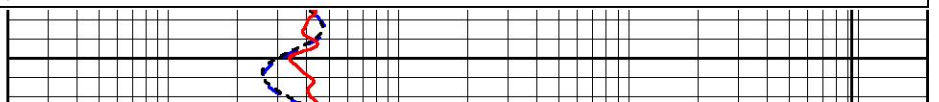
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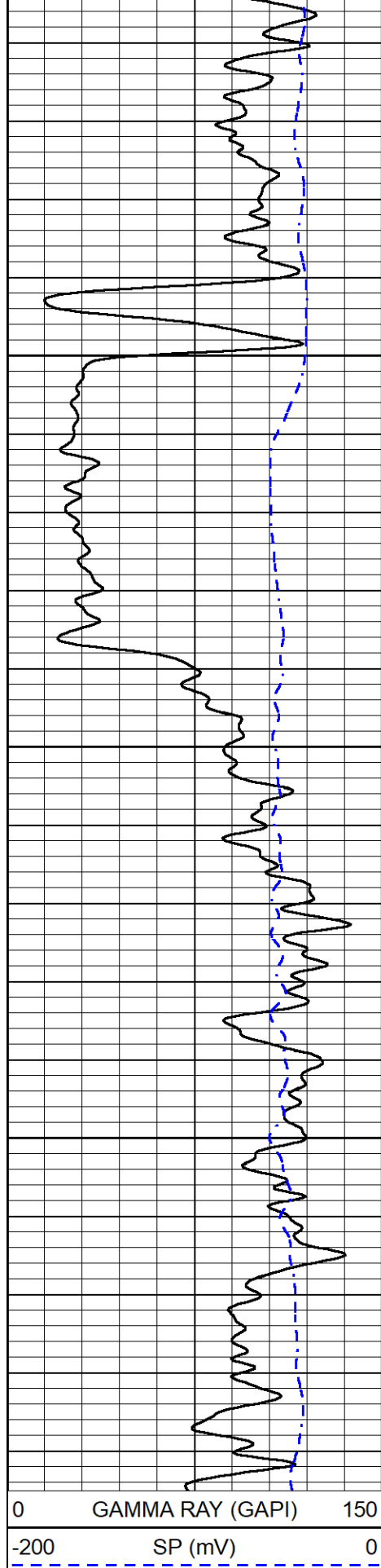
0 GAMMA RAY (GAPI) 150
 -200 SP (mV) 0

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

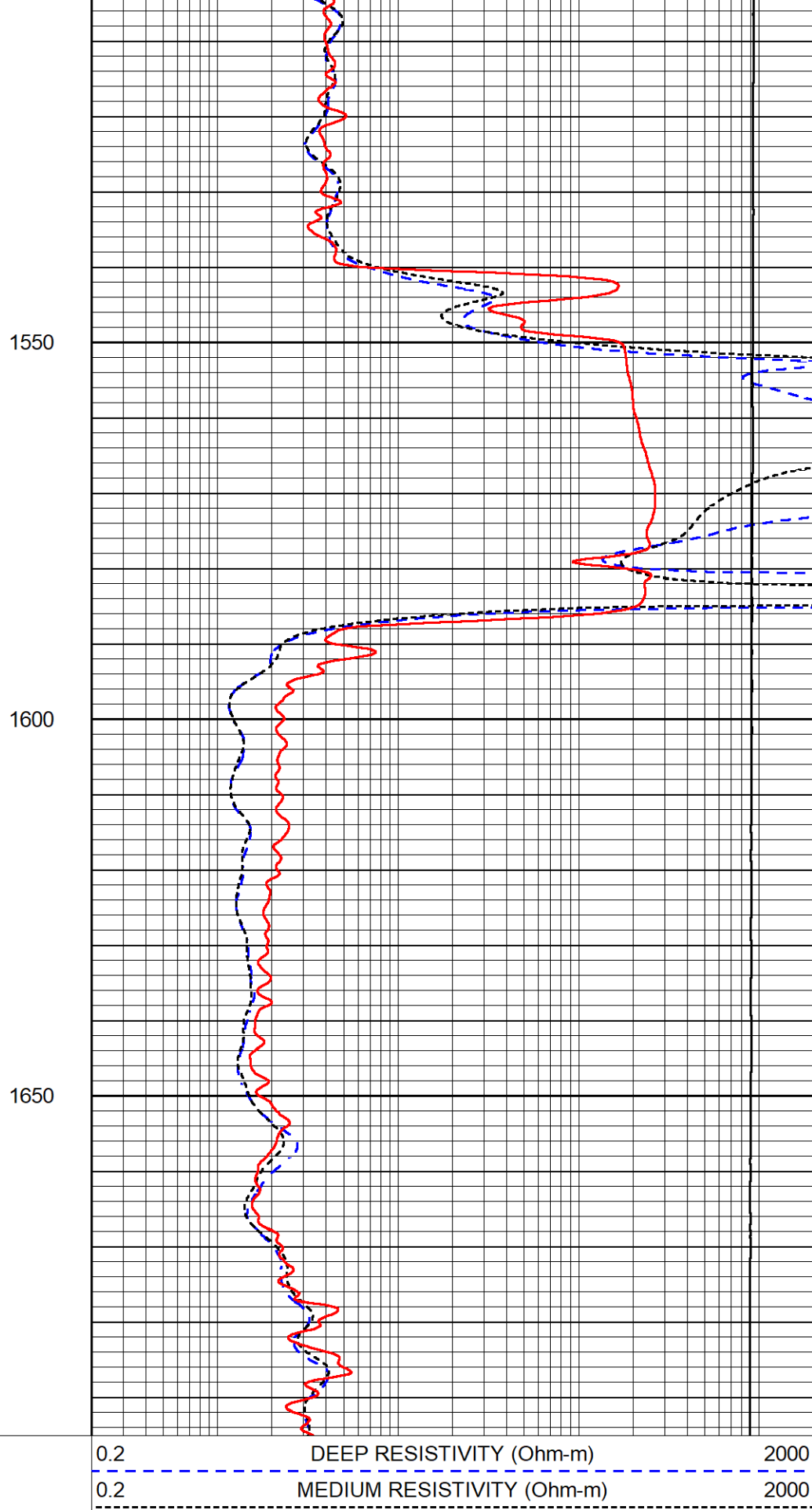


1500





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

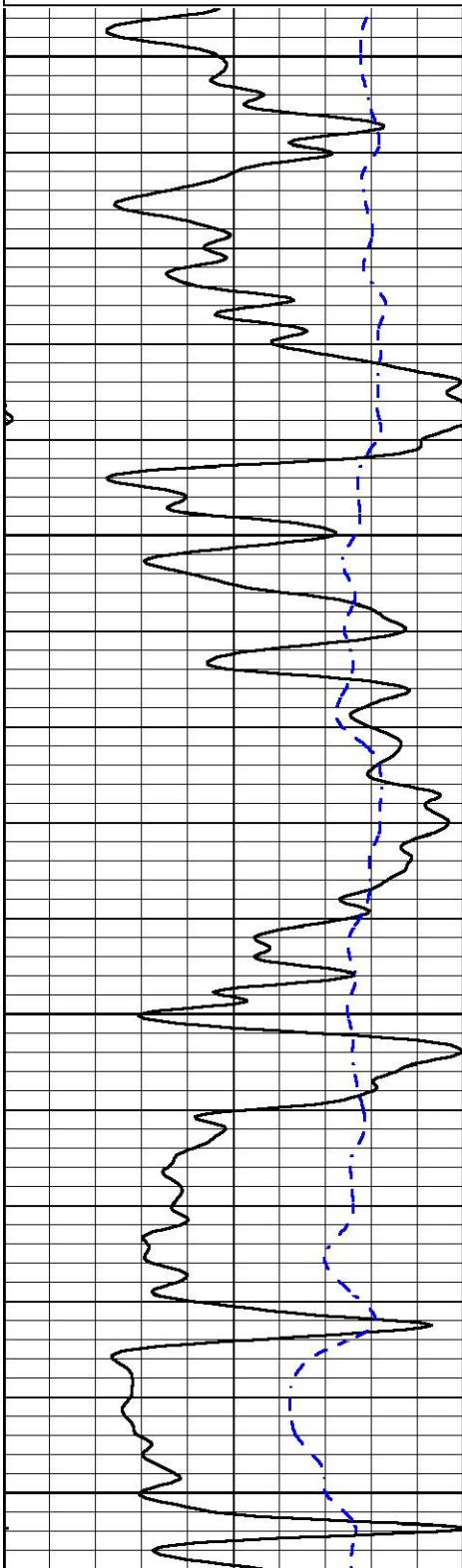
DETAIL SECTION

MAIN PASS

Database File castle_pfeifer_2.db
Dataset Pathname stack/pass3.1
Presentation Format _dil
Dataset Creation Sun Sep 19 13:22:37 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

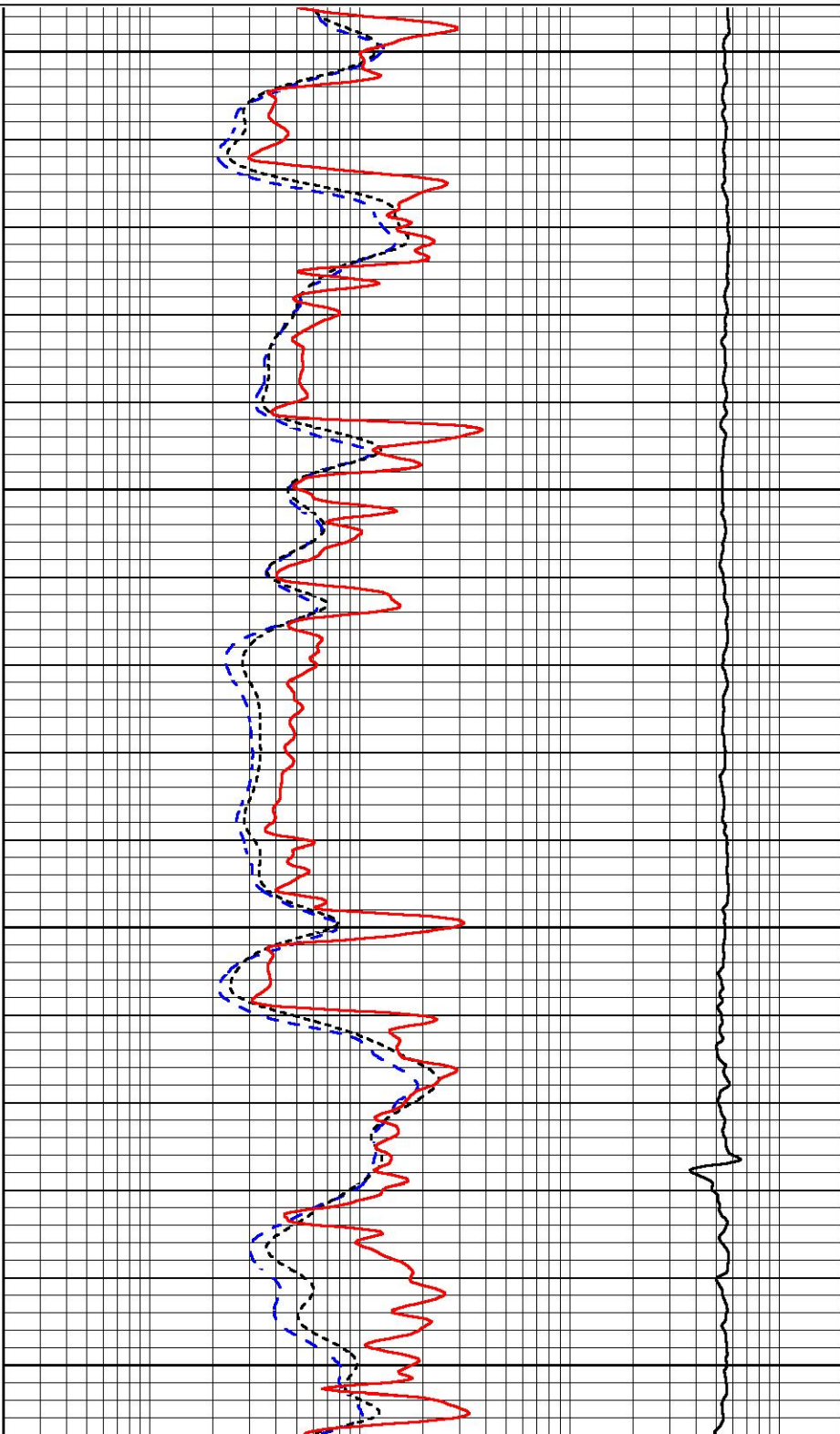


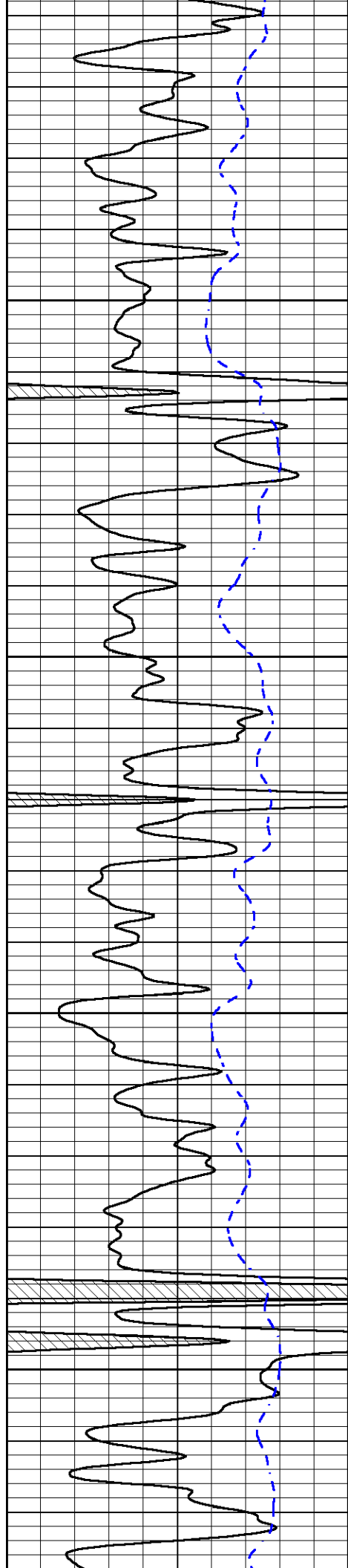
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3150

3200

3250



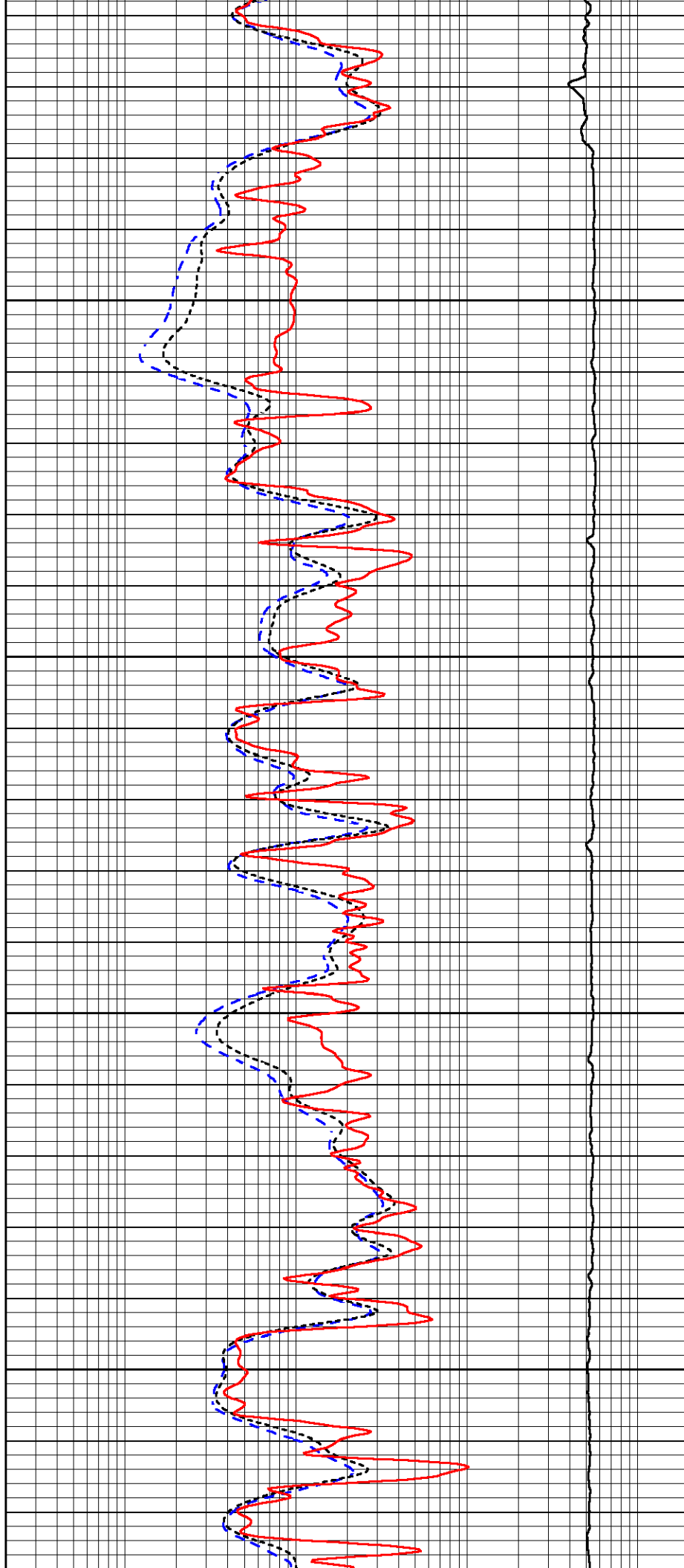


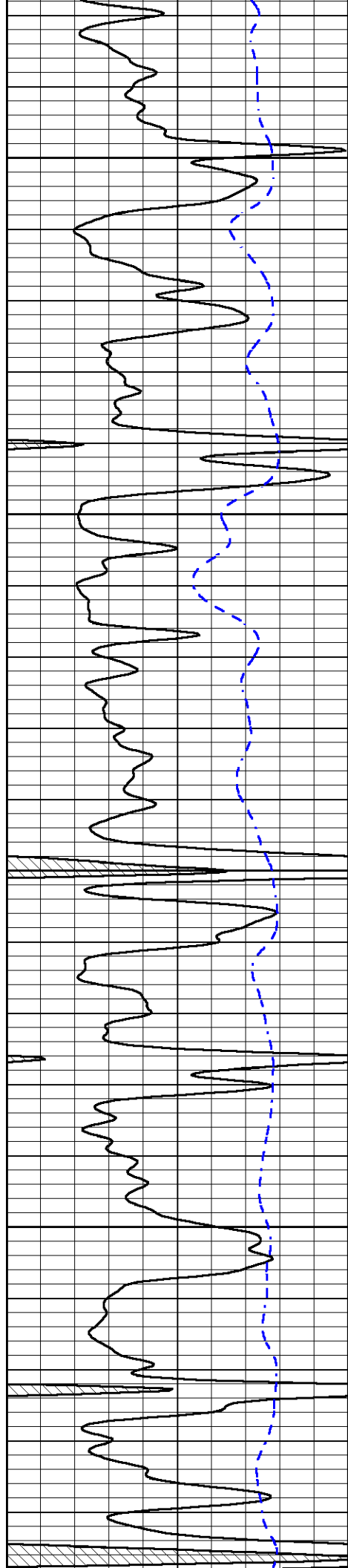
3300

3350

3400

3450



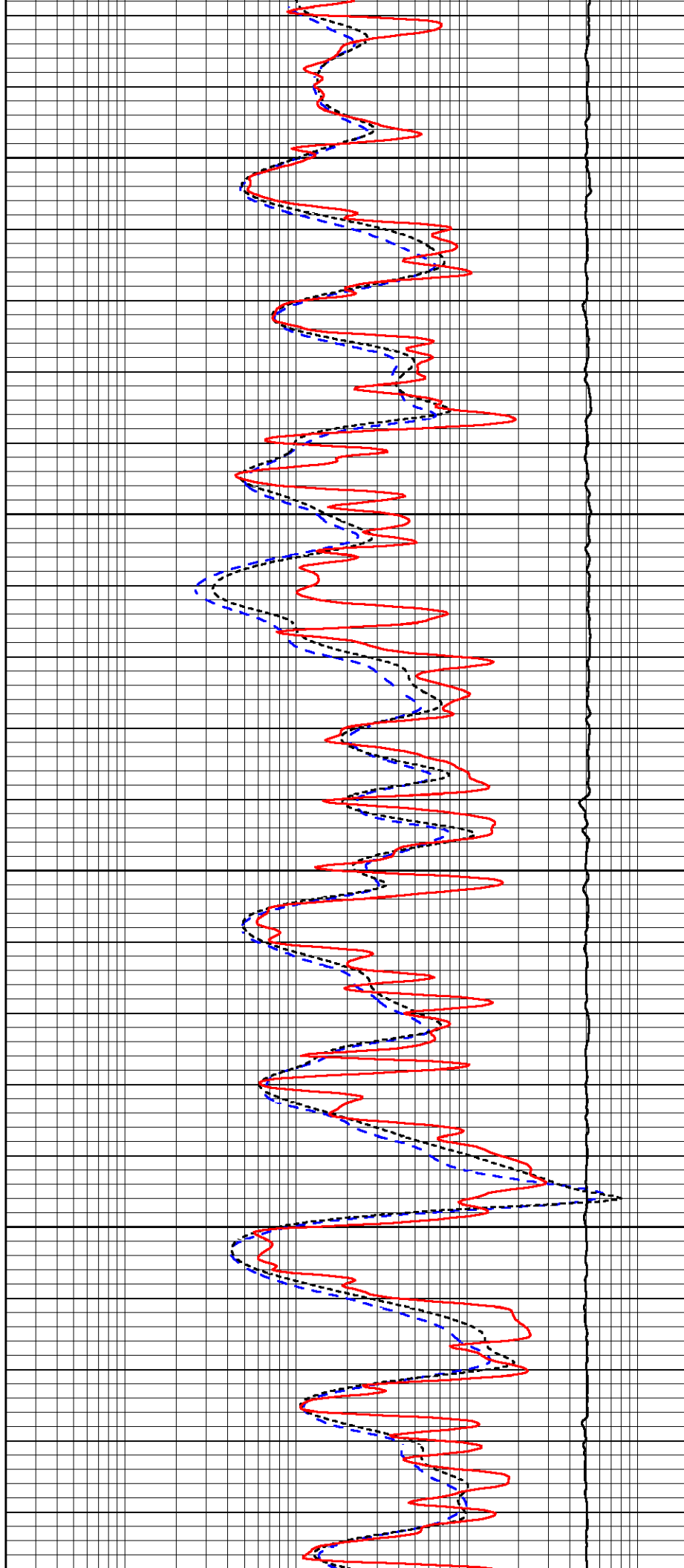


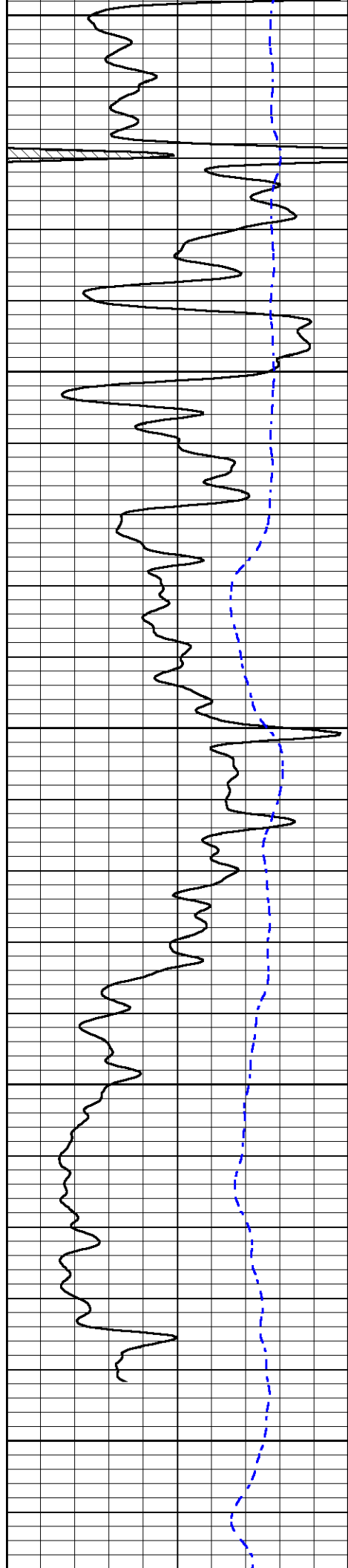
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3550

3600

3650





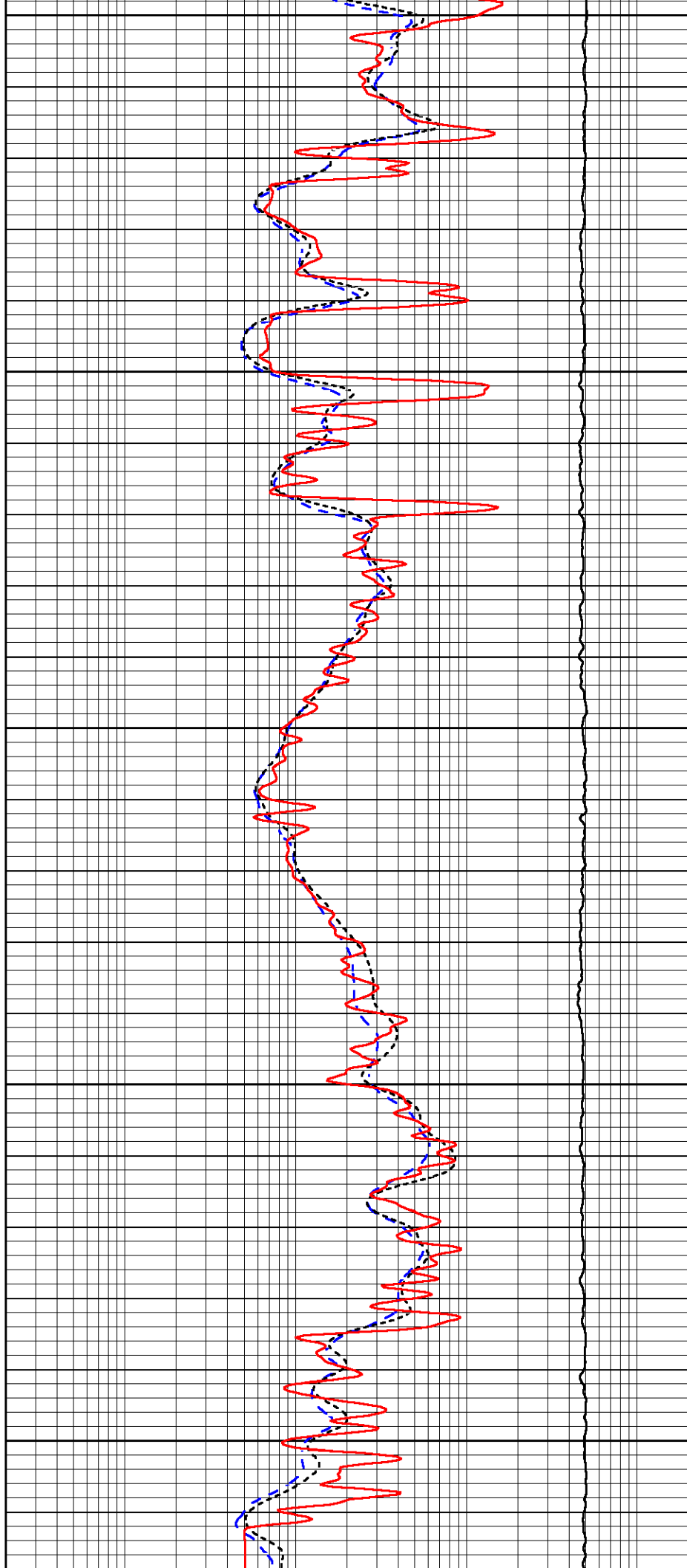
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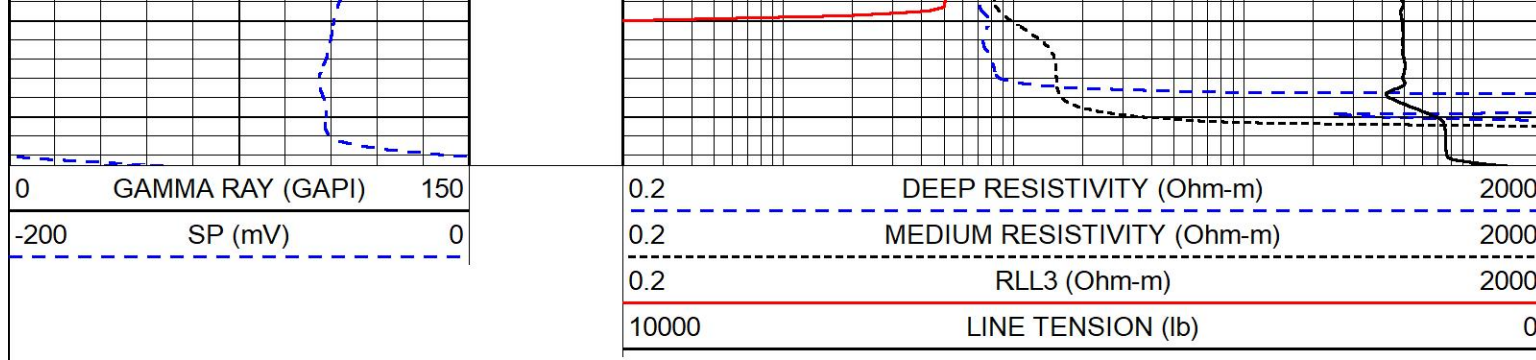
3750

3800

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3900



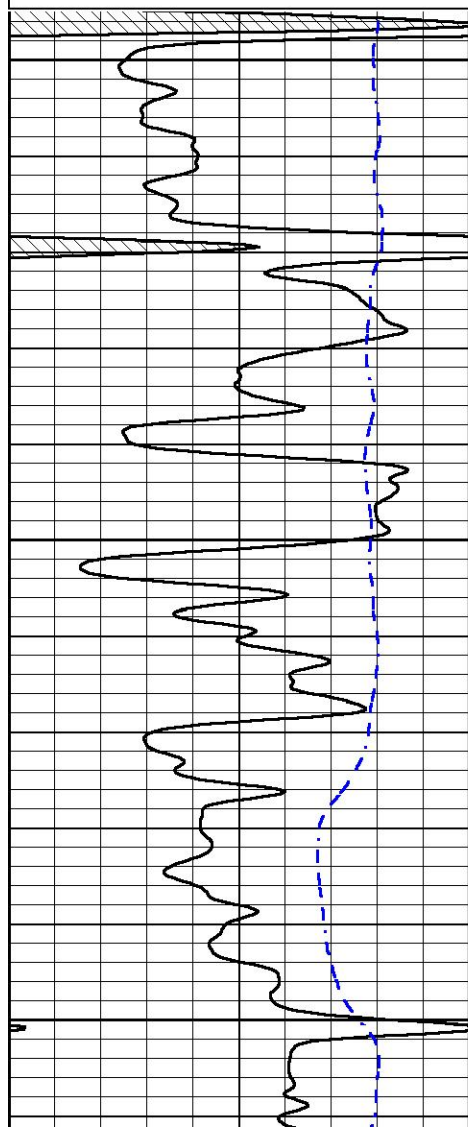
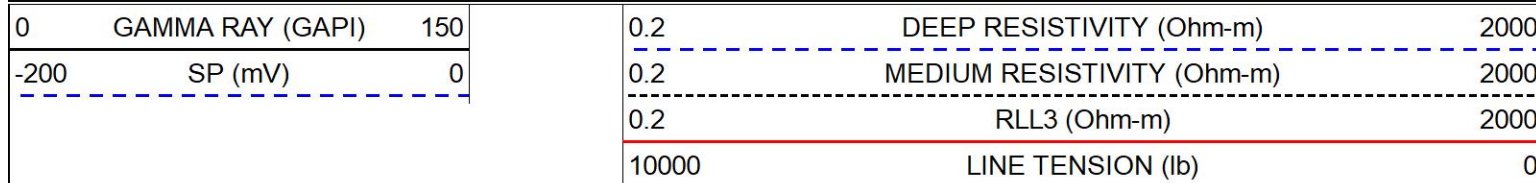


MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

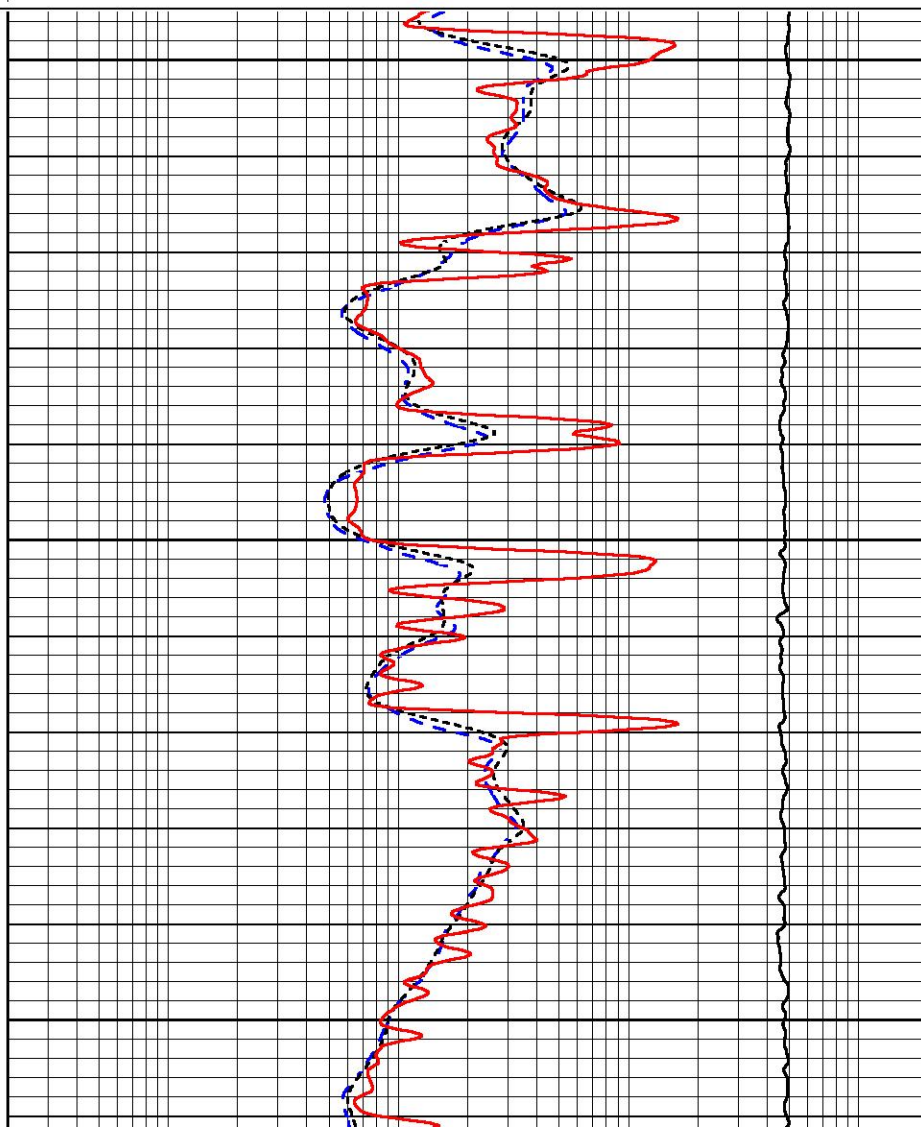
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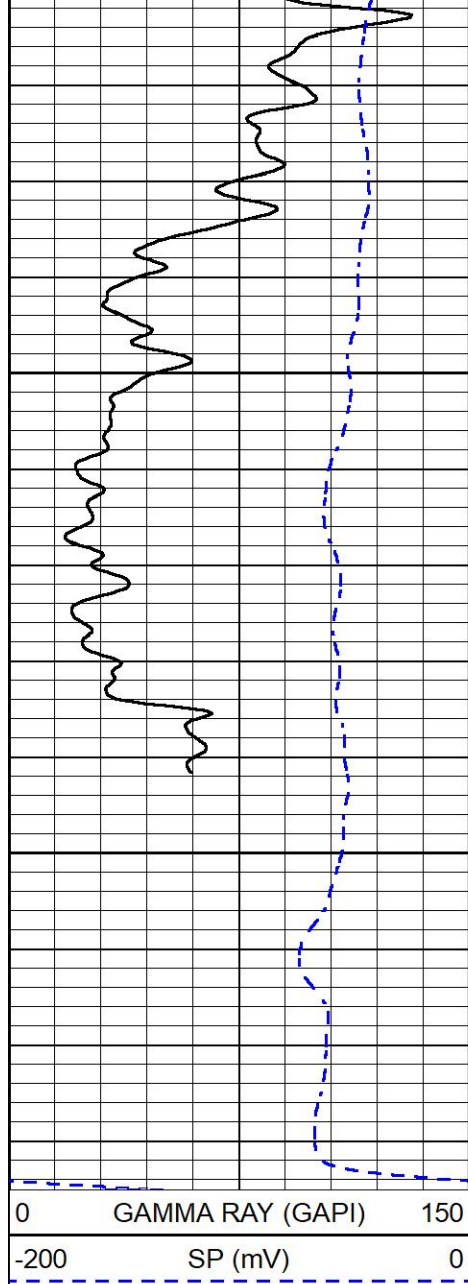


3700

3750

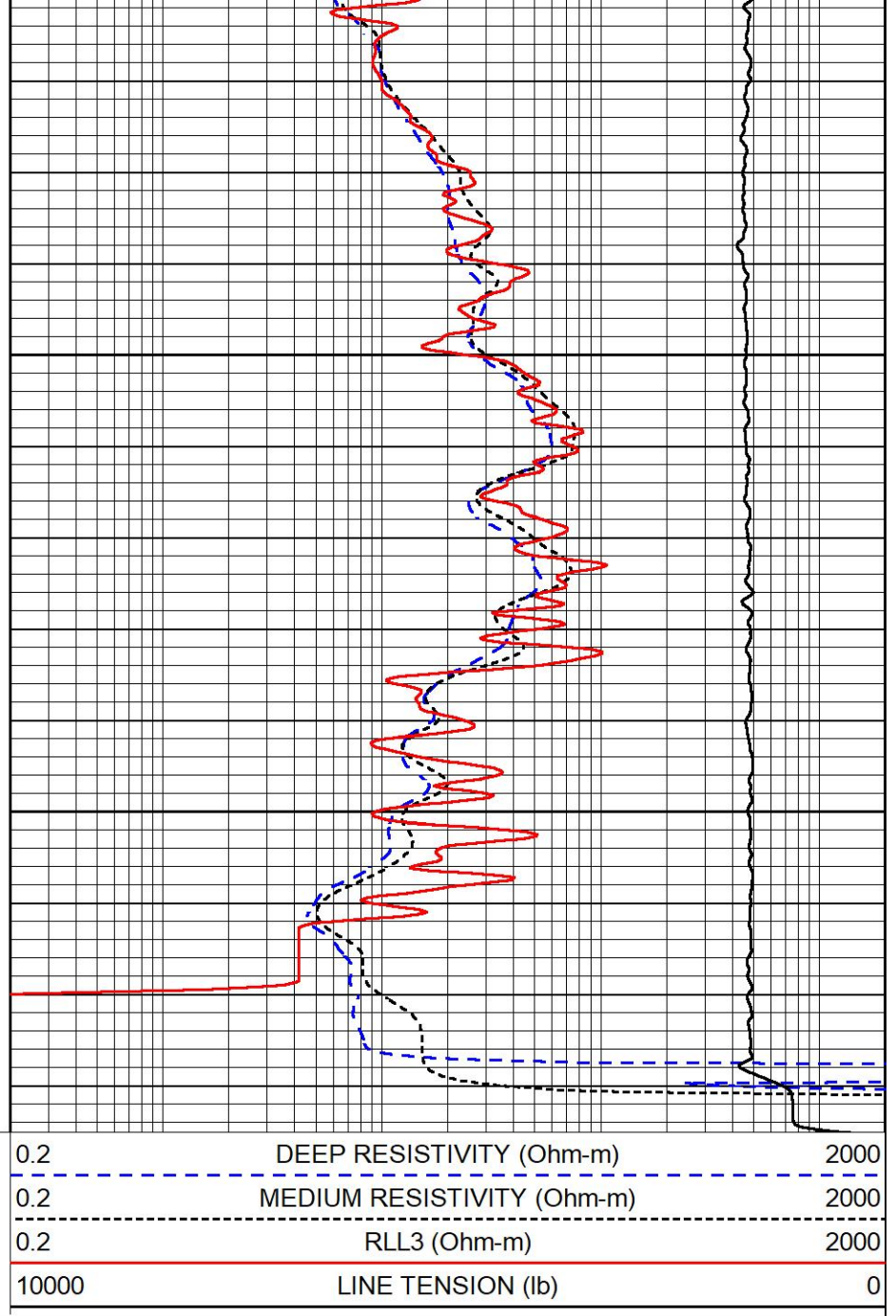
3800





3850

3900



Company	Castle Resources, Inc.
Well	Pfeifer #2
Field	Ellis
County	Ellis
State	Kansas