

MIDWEST WIRELINE

DUAL INDUCTION
LOG

Company Shakespeare Oil Co., Inc.		Company Shakespeare Oil Co., Inc.	
Well	Ottley #3-21	Well	Ottley #3-21
Field	Chalk Buttes	Field	Chalk Buttes
County	Logan	County	Logan
State	Kansas	State	Kansas
Location: API #: 15-109-21618-00-00		Other Services	
SW/4 1150' FSL & 335' FWL SEC 21 TWP 14S RGE 32W		CNL/CDL MEL/BHCS	
Permanent Datum	Ground Level	Elevation	2712'
Log Measured From	Kelly Bushing	K.B.	2721'
Drilling Measured From	Kelly Bushing	D.F.	N/A
		G.L.	2712'
Date	5/9/2021		
Run Number	One		
Depth Driller	4450'		
Depth Logger	4453'		
Bottom Logged Interval	4452'		
Top Log Interval	250'		
Casing Driller	8.625" @ 255'		
Casing Logger	260'		
Bit Size	7.875"		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4400		
Density / Viscosity	9.3 71		
pH / Fluid Loss	10.0 9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.60 @ 70		
Rmt @ Meas. Temp	0.45 @ 70		
Rmc @ Meas. Temp	0.81 @ 70		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.35 @ 121		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	121		
Equipment Number	P-24		
Location	HAYS		
Recorded By	D. Schmidt		
Witnessed By	Kent Matson		

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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.

Oakley,
South on Hwy 83 to Jayhawk Rd,
1/2 West to 430 Rd, 1/2 South, 1/2 West, 1/4 South,
West to location

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: Kent Matson	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Log Variables

DatabaseC:\ProgramData\Warrior\Data\shakespeare_ottley 3-21.db
Dataset field/well/stkml/pass4.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 121	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m 0	mmho/m 0	mV 245	degF 70	Off	ft 4453

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



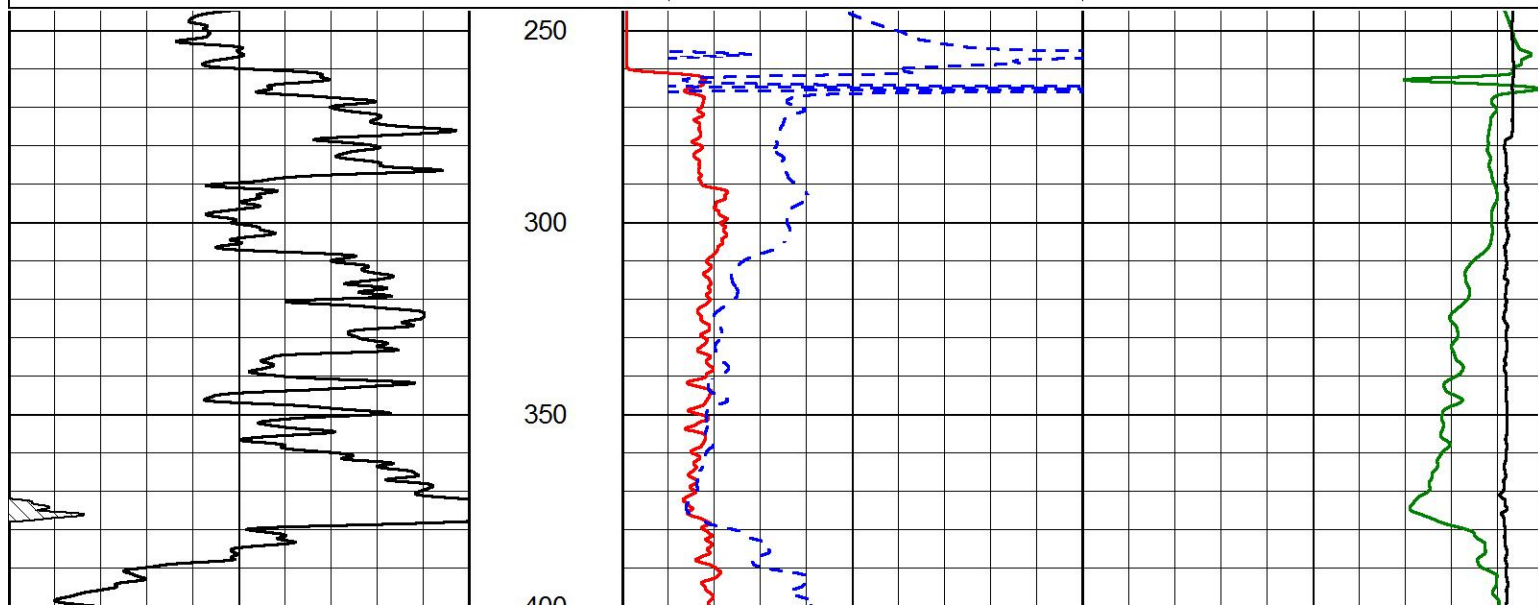
MIDWEST WIRELINE

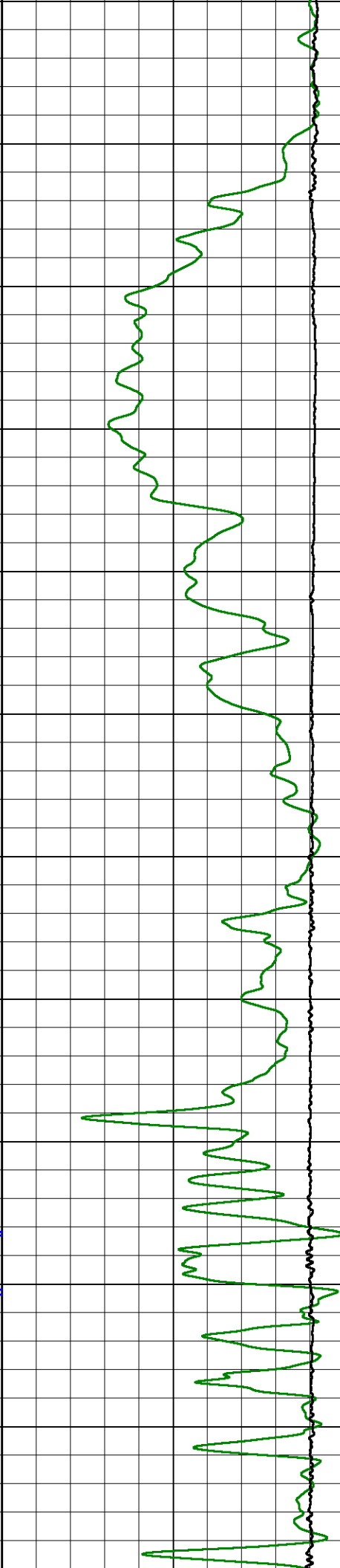
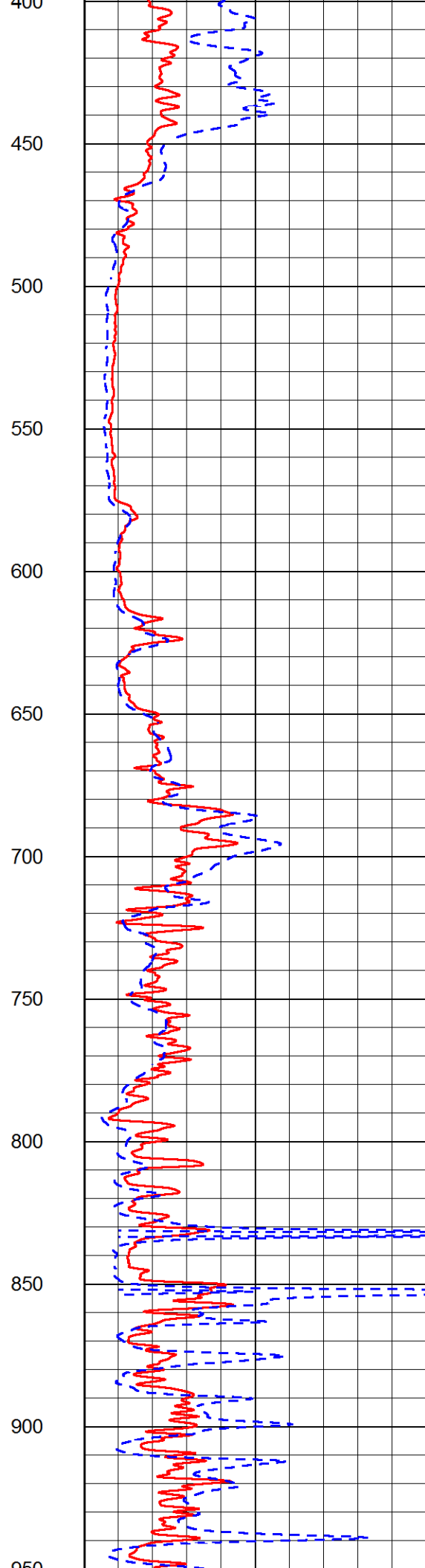
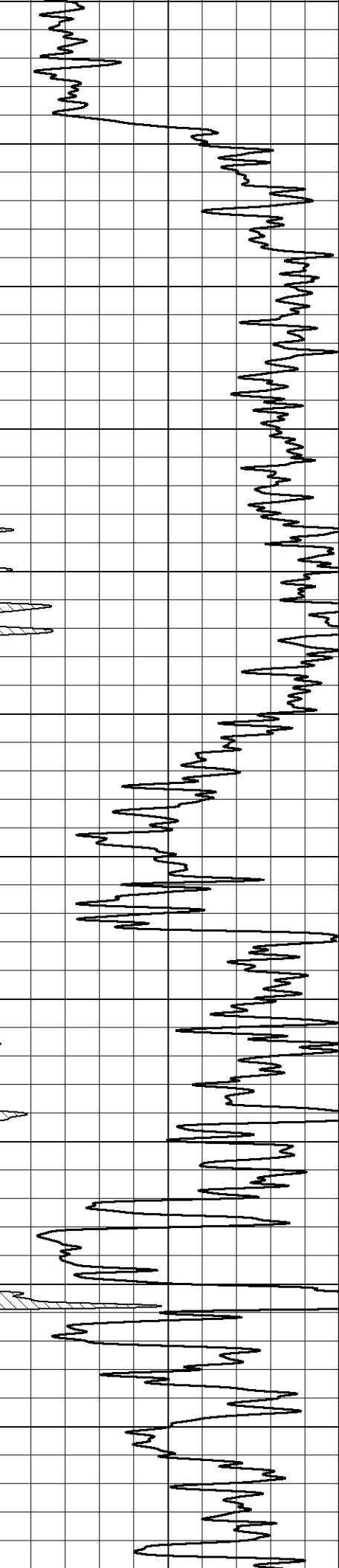
2" SCALE RESISTIVITY

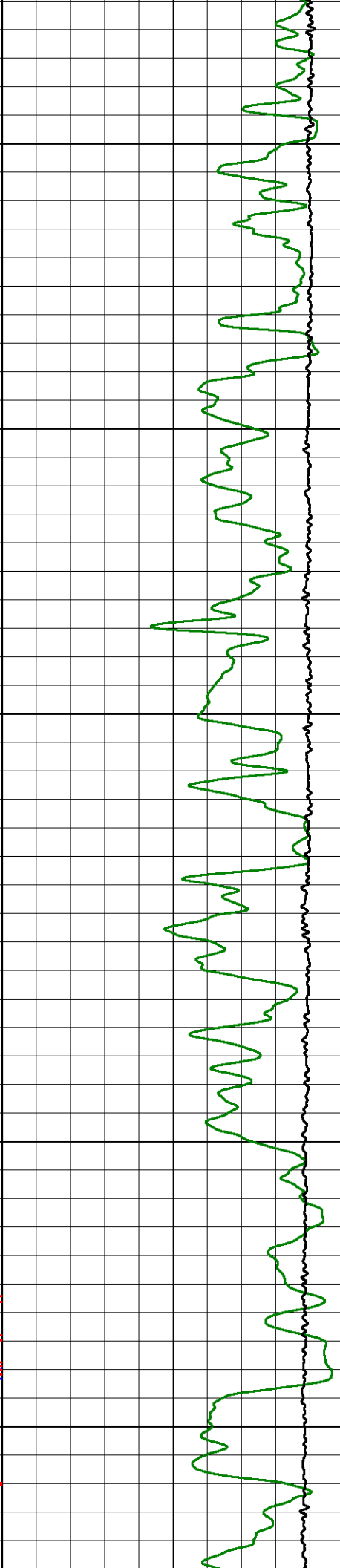
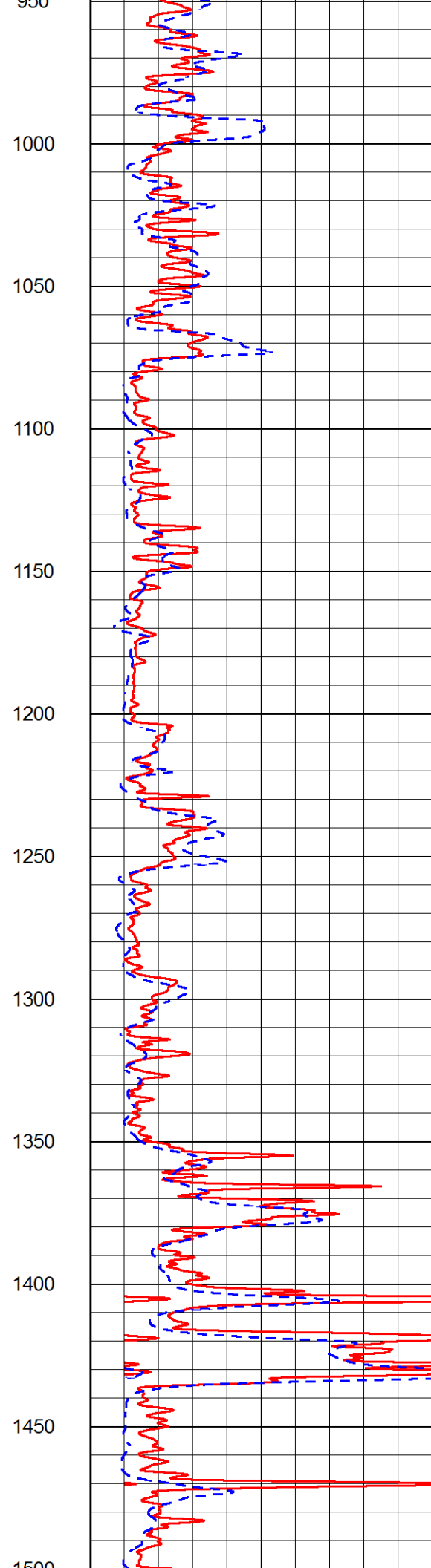
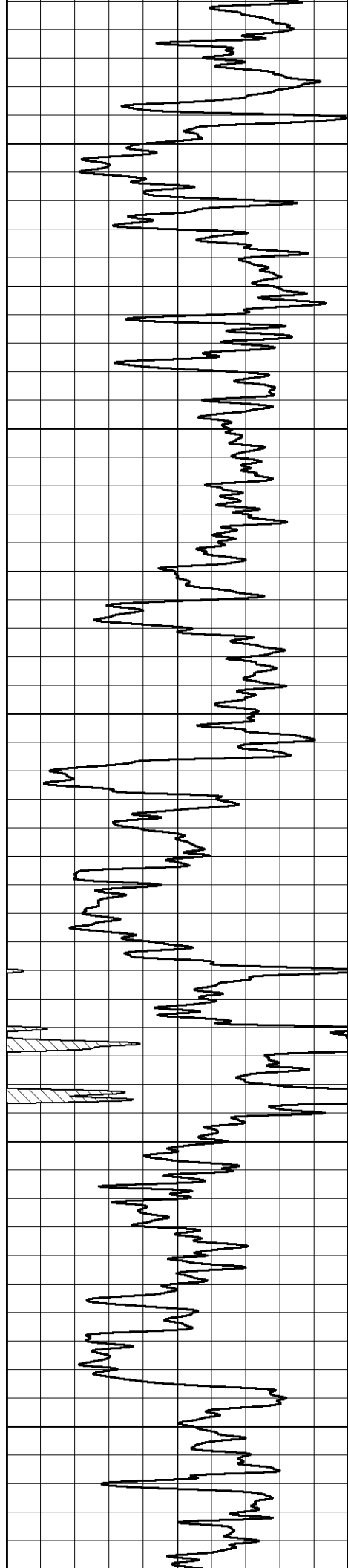
MAIN PASS

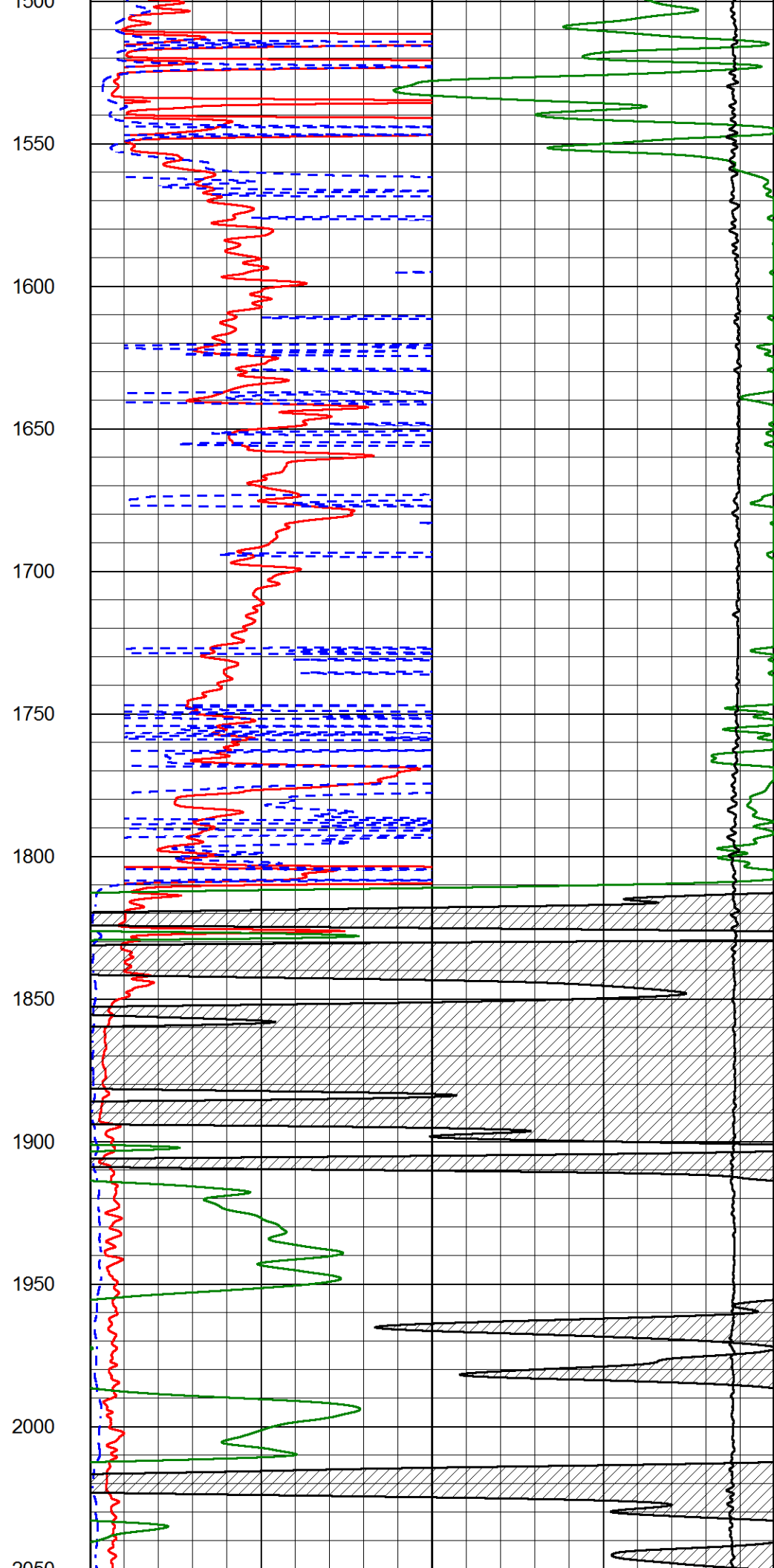
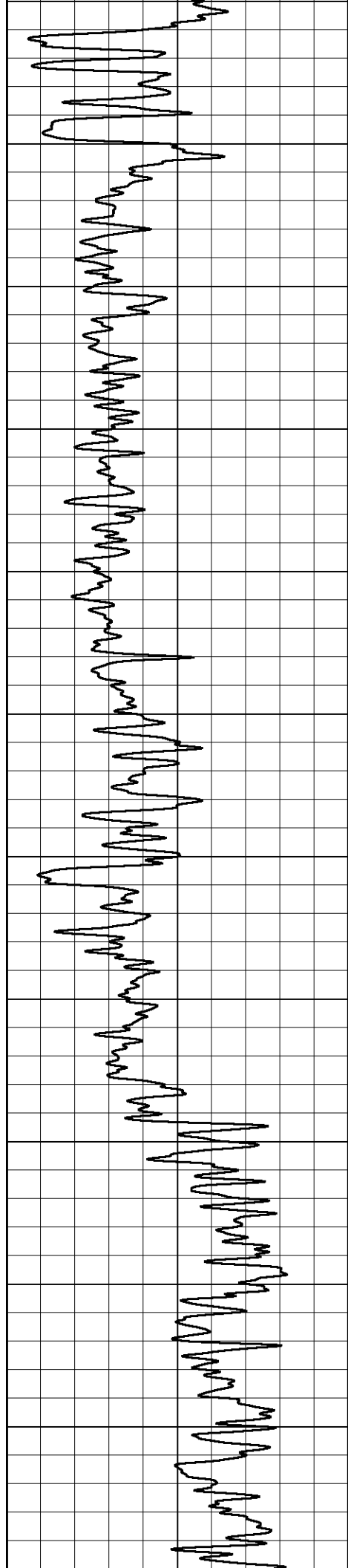
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Dataset Pathname stkml/pass7.1
Presentation Format _dil2in
Dataset Creation Sun May 09 18:51:55 2021
Charted by Depth in Feet scaled 1:600

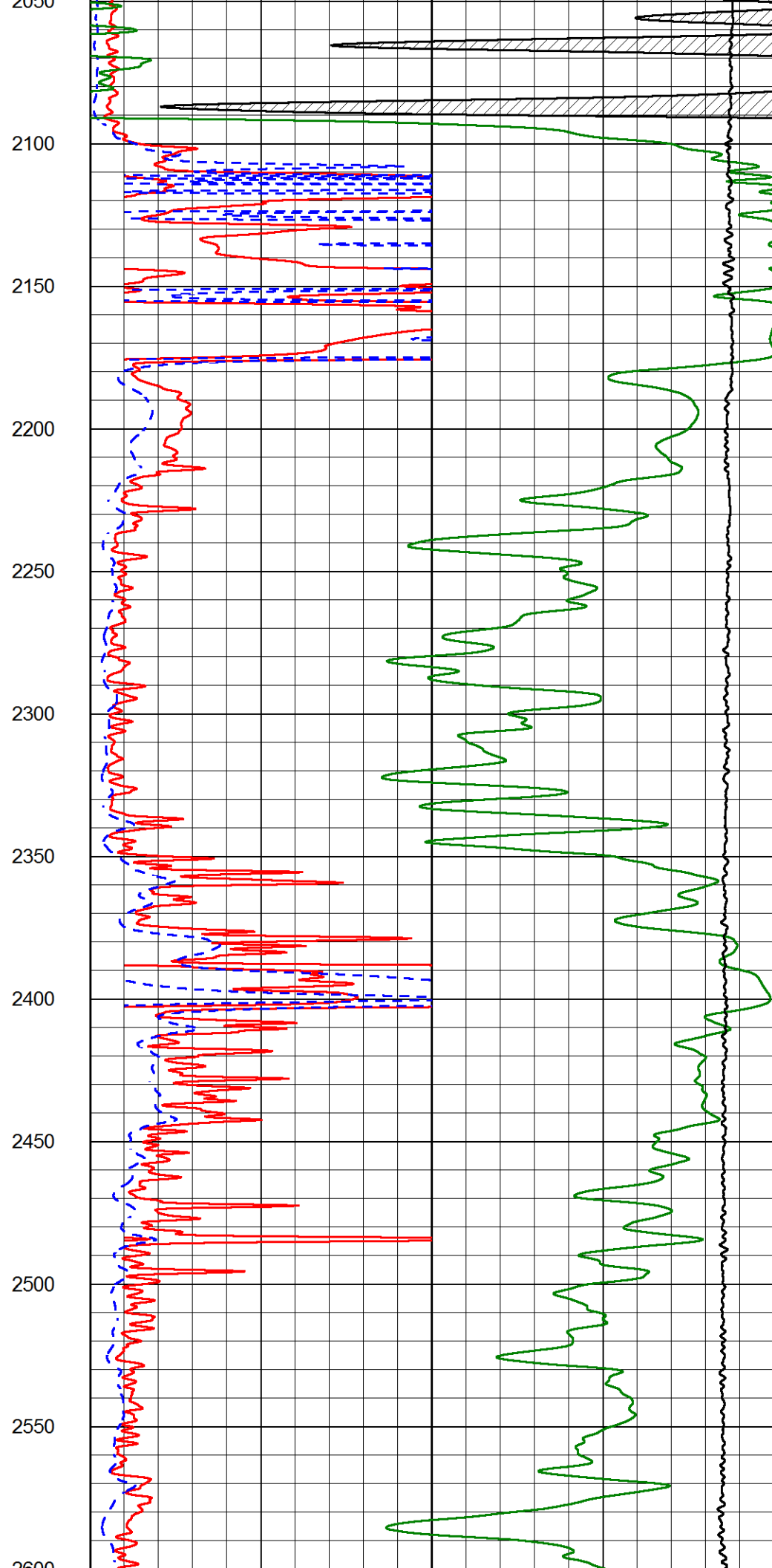
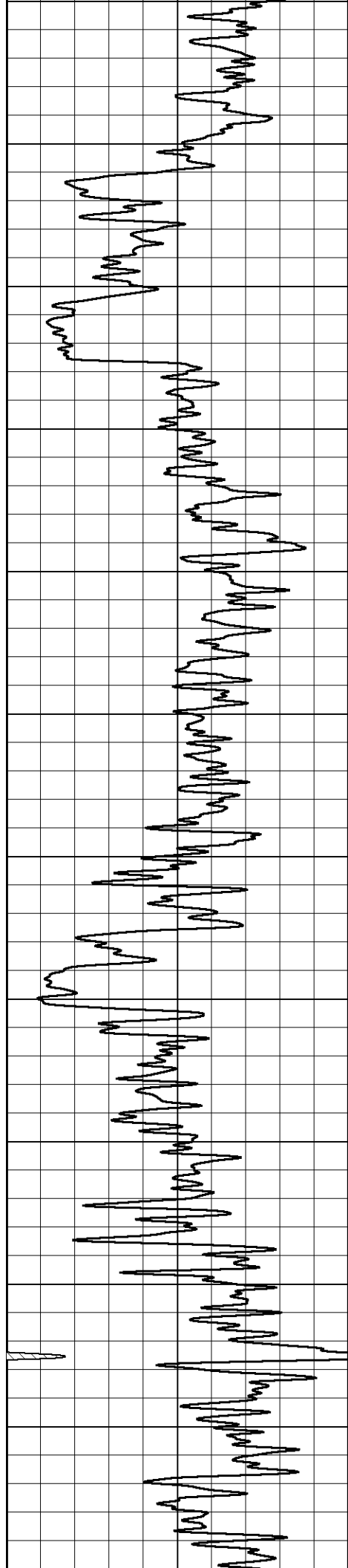
0	(GAPI)	150	1000	CONDUCTIVITY (mmho/m)	0
			15000	Line Tension (lb)	0
			0	RLL3 (Ohm-m)	50
			0	RILD (Ohm-m)	50
			50	RLL3 (Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200

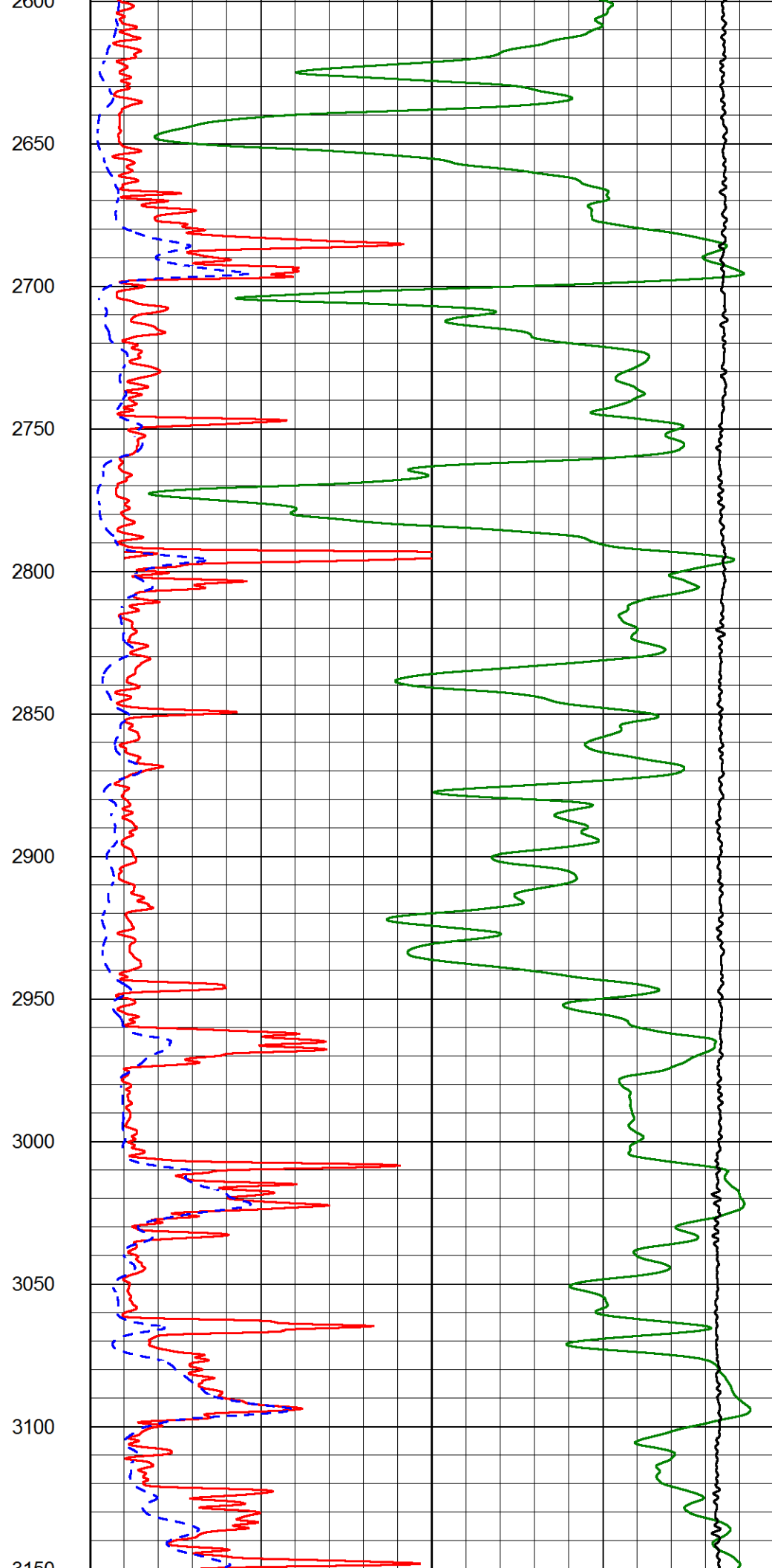
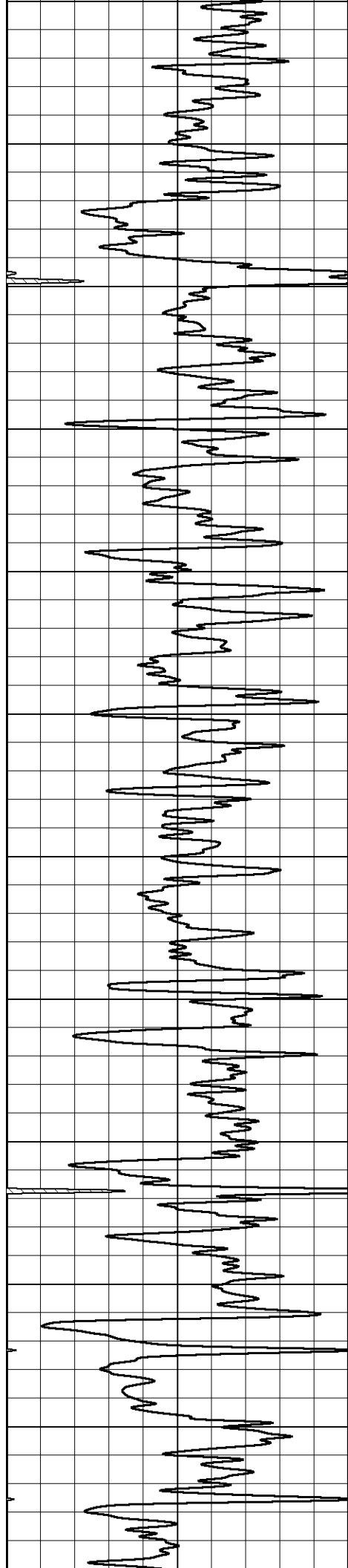


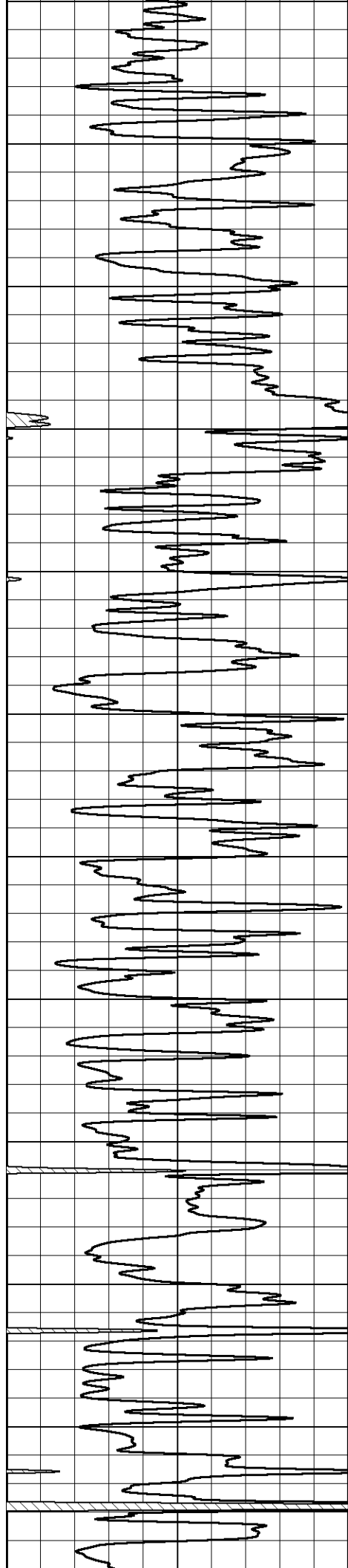




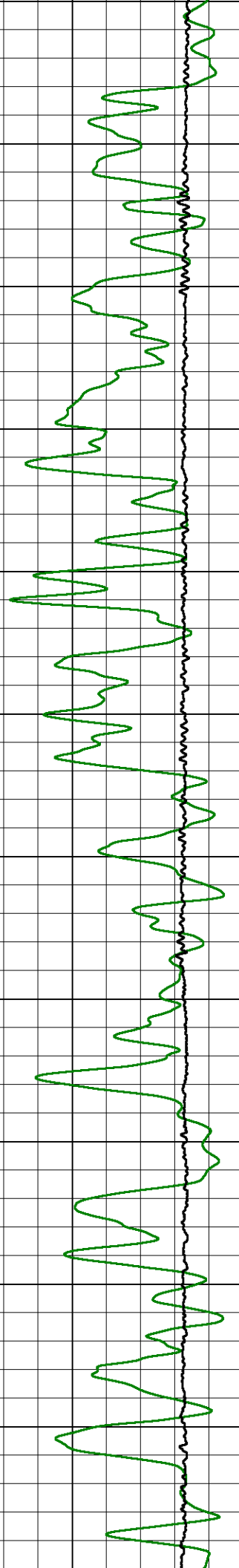
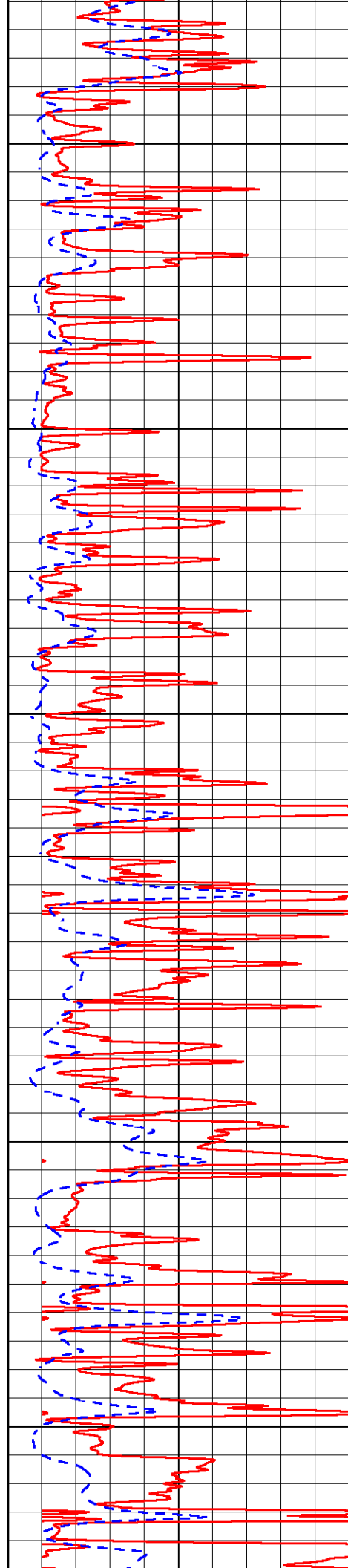


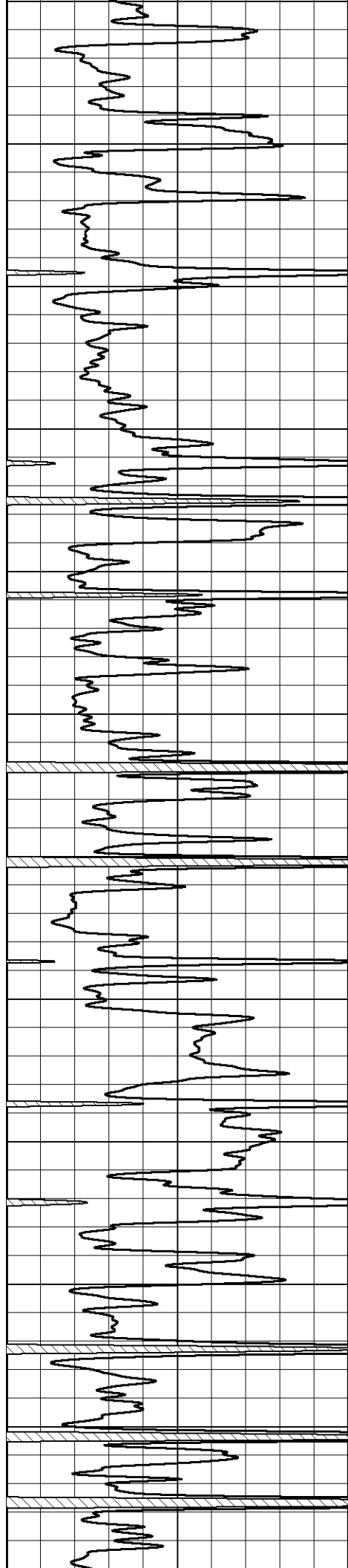




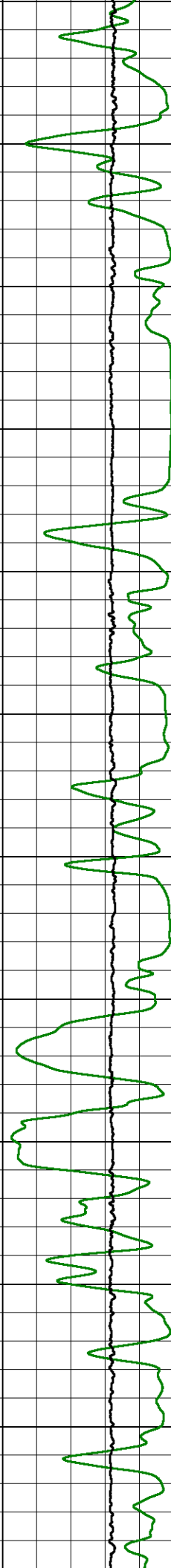
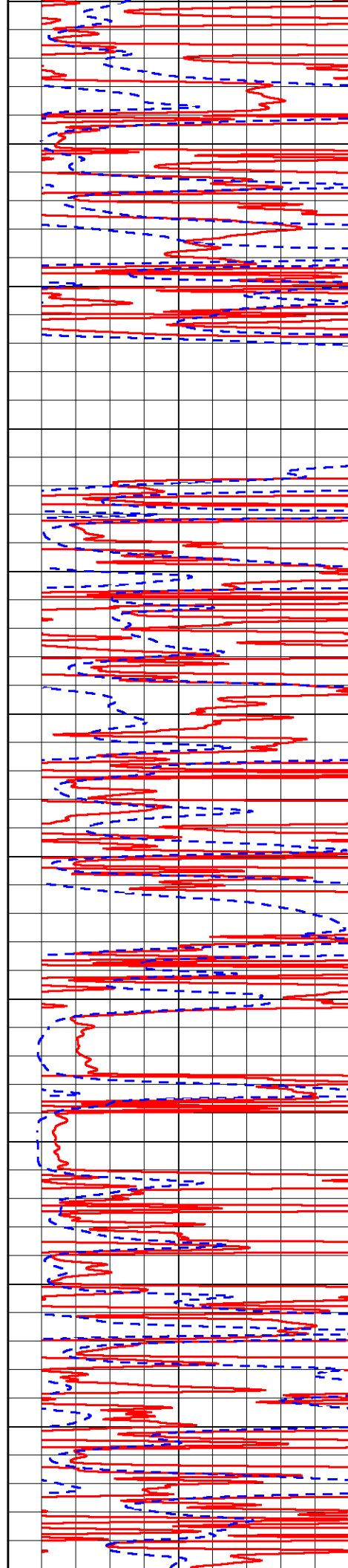


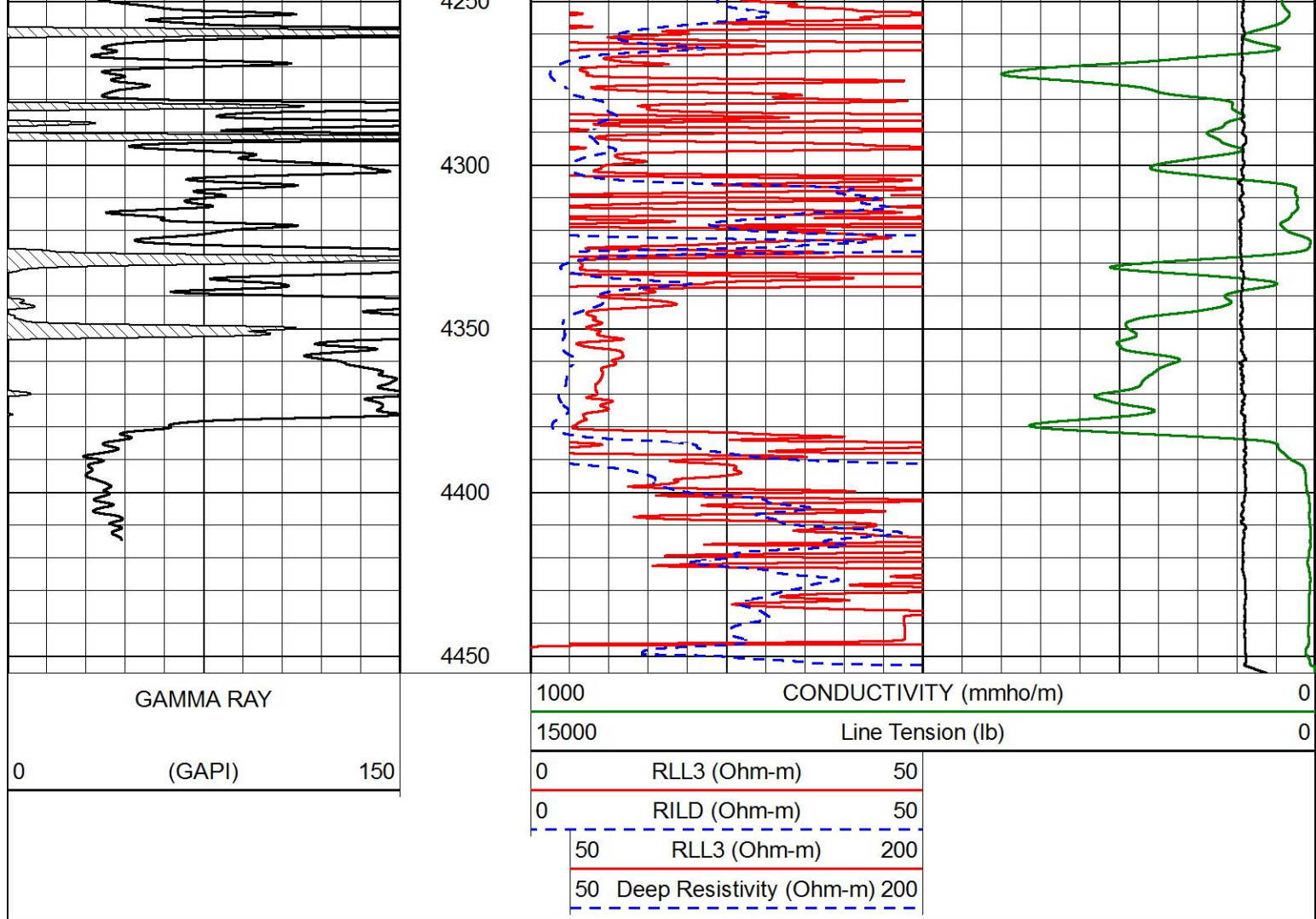
3150
3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700





3700
3750
3800
3850
3900
3950
4000
4050
4100
4150
4200
4250



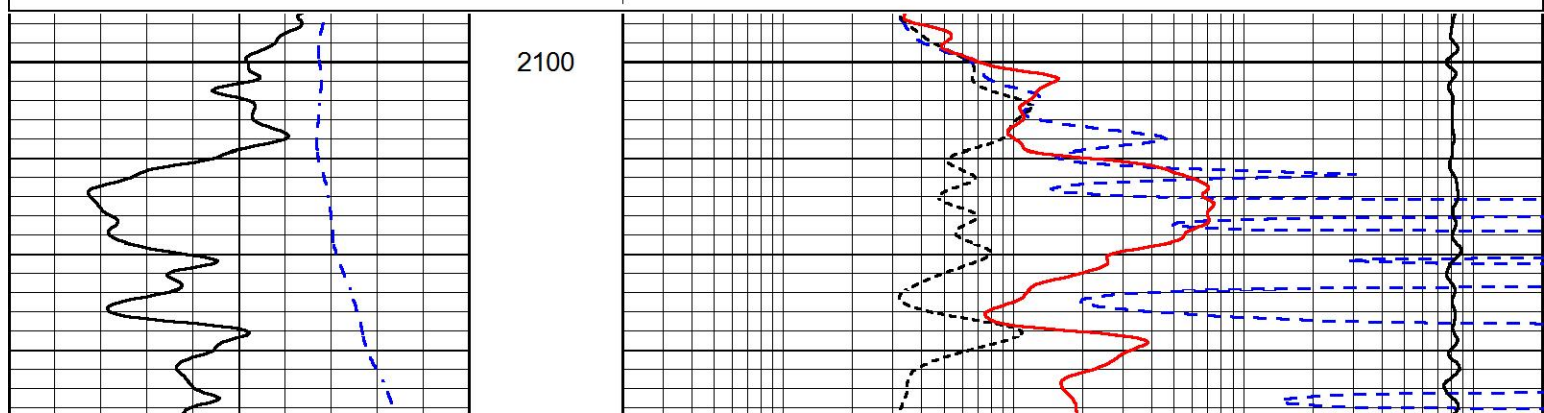


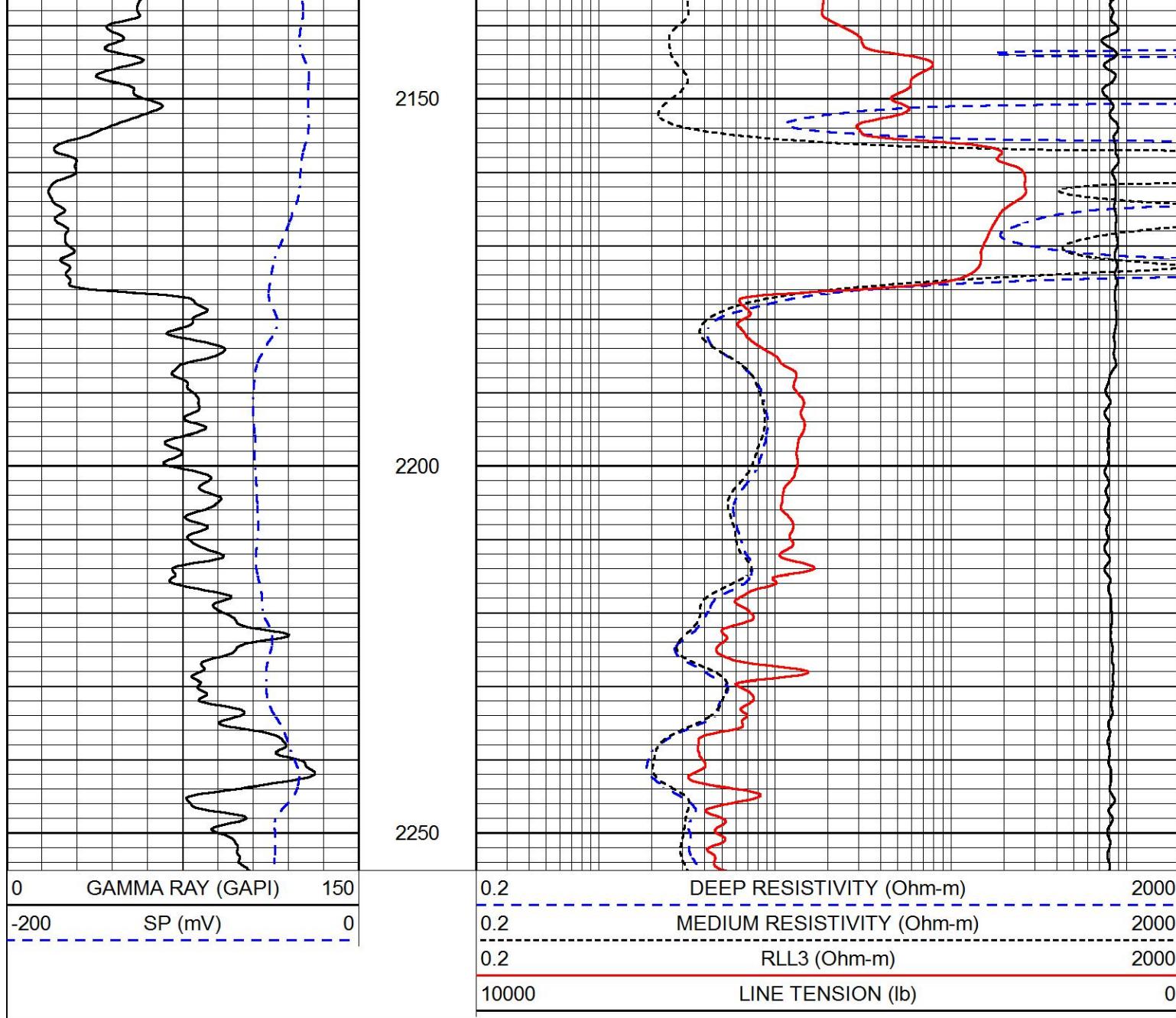
ANHYDRITE SECTION

MAIN PASS

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Dataset Pathname: stkml/pass6.1
Presentation Format: _dil
Dataset Creation: Sun May 09 18:51:44 2021
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	DEEP RESISTIVITY (Ohm-m)	2000
-200	SP (mV)	0	0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000
			10000	LINE TENSION (lb)	0

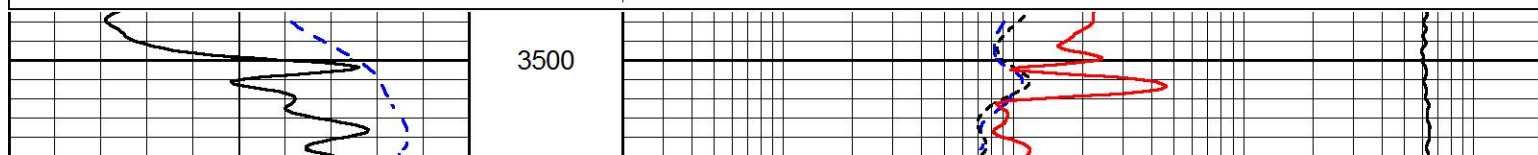
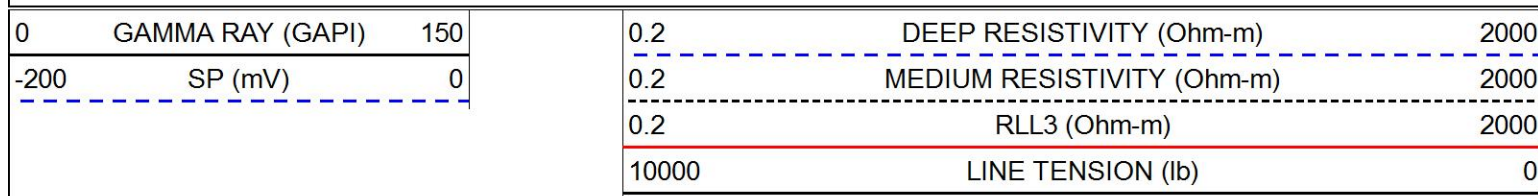


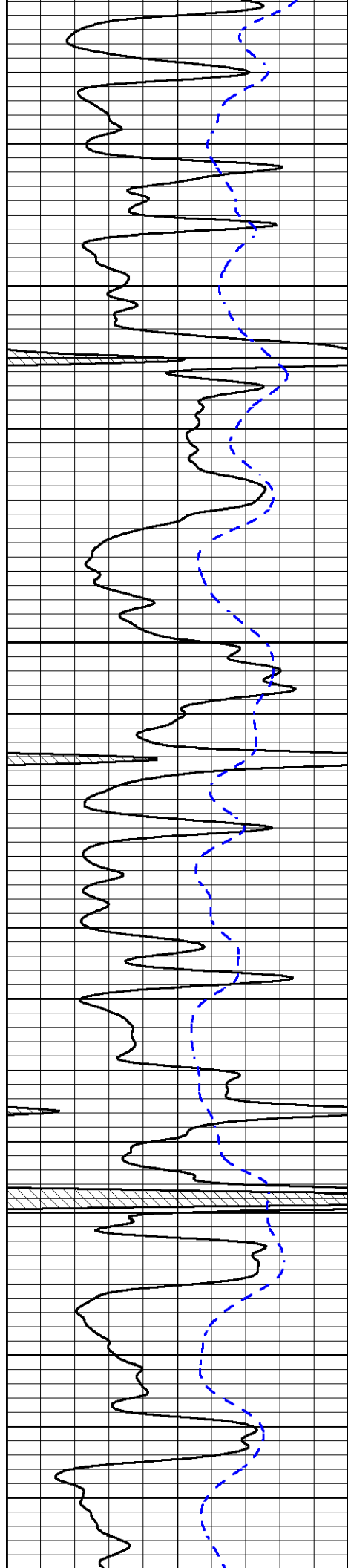


DETAIL SECTION

MAIN PASS

Database File shakespeare_ottley 3-21.db
 Dataset Pathname stkml/pass4.1
 Presentation Format _dil
 Dataset Creation Sun May 09 18:11:13 2021
 Charted by Depth in Feet scaled 1:240



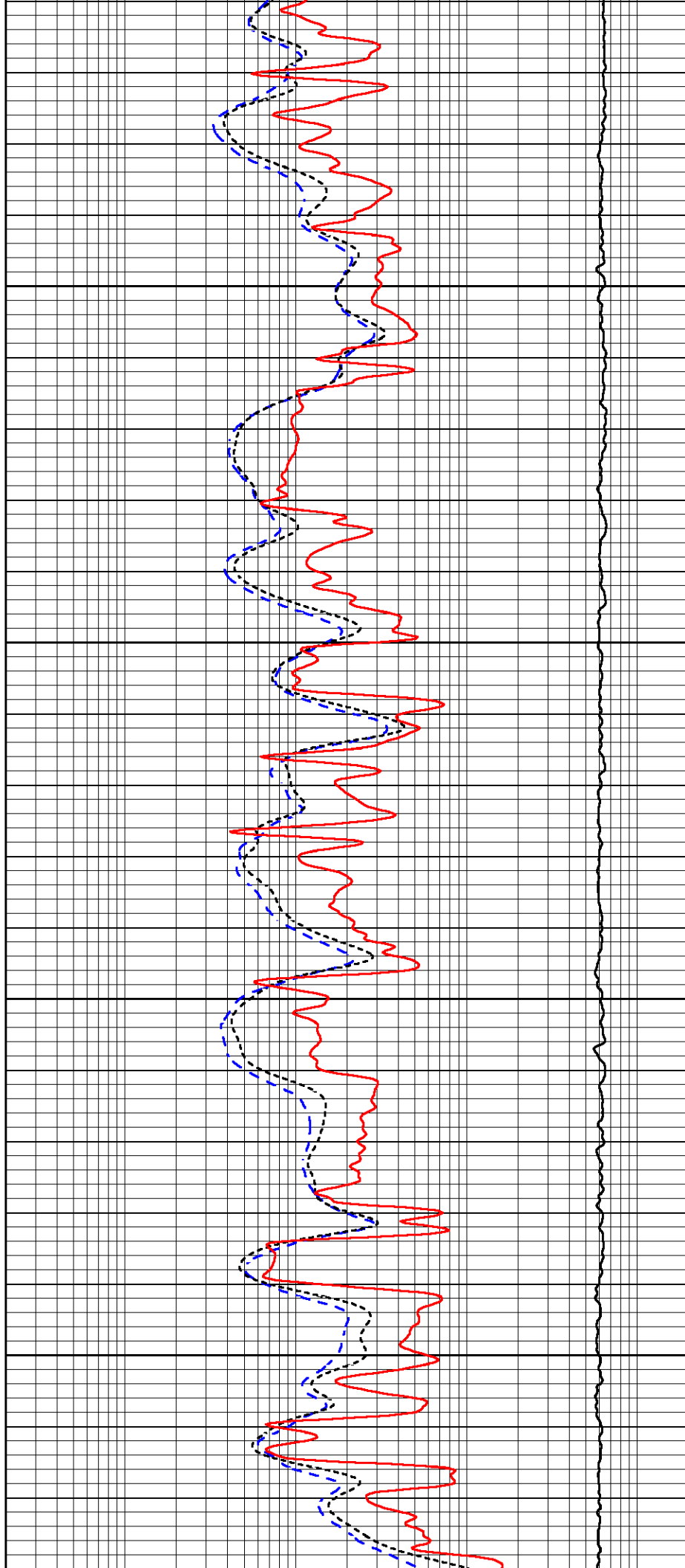


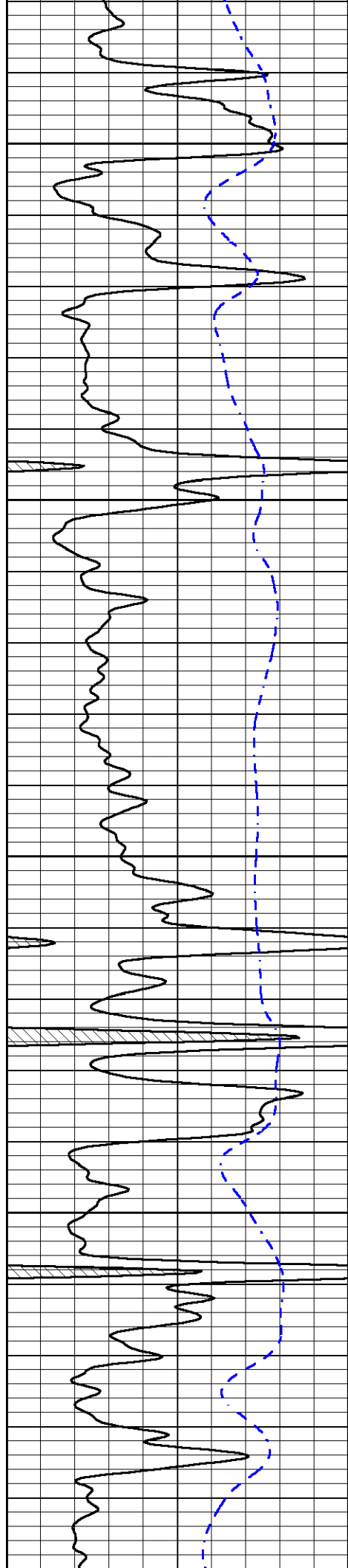
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3600

3650

3700





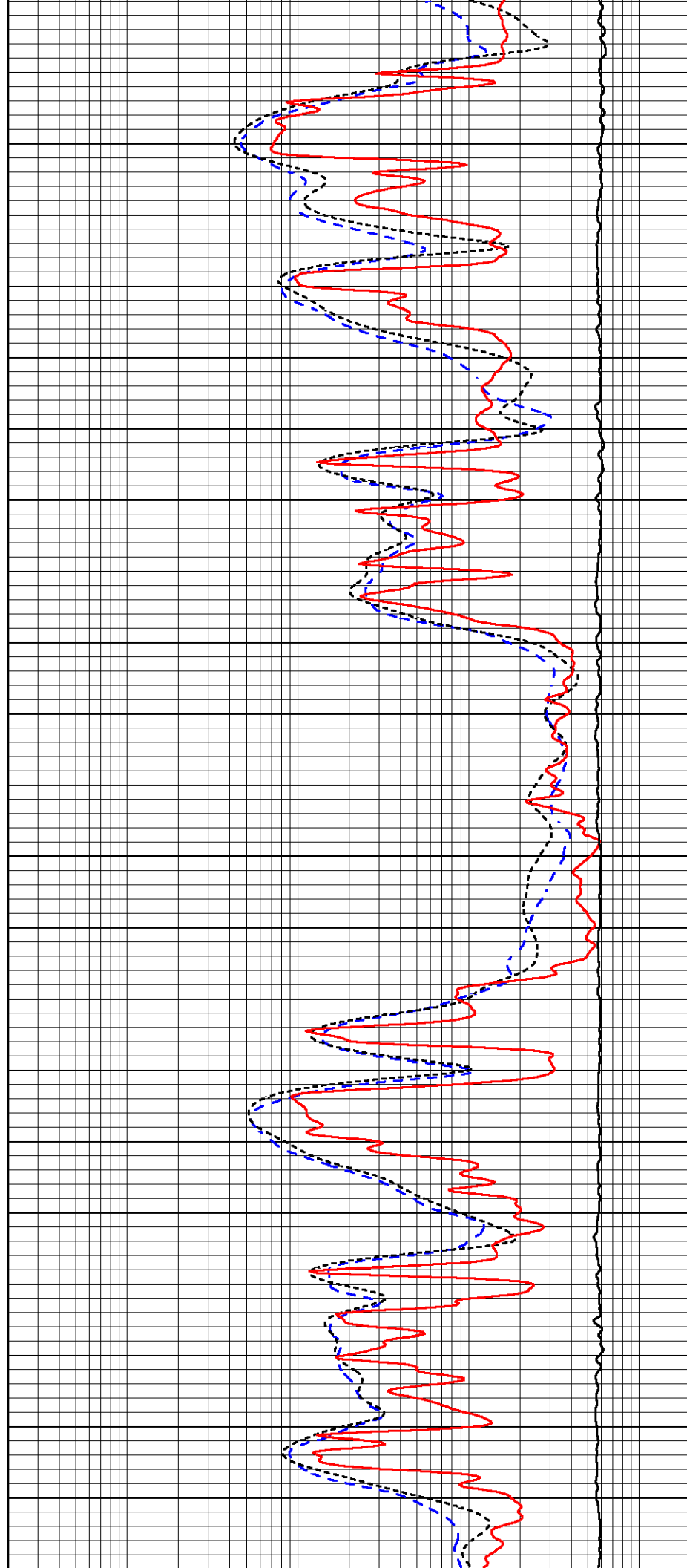
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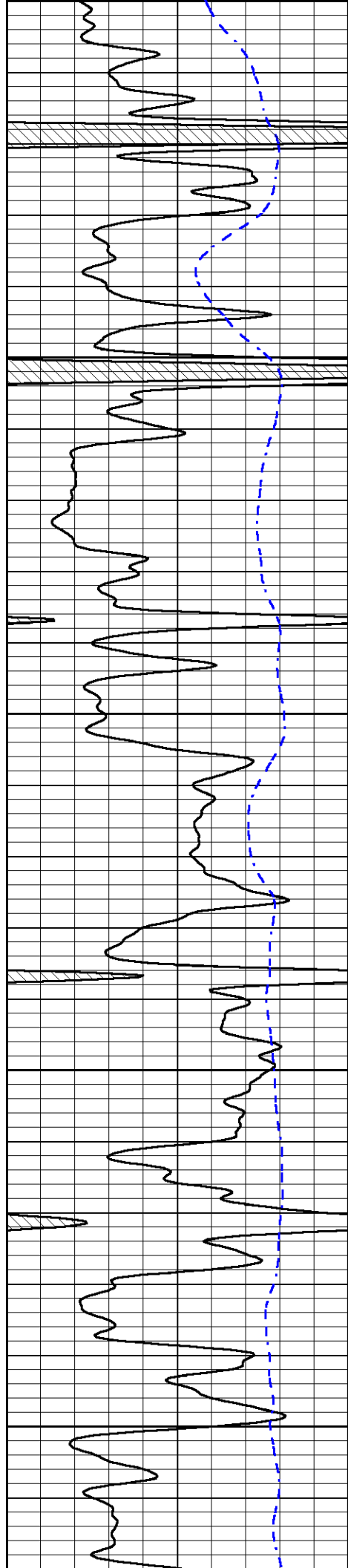
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3900

3950





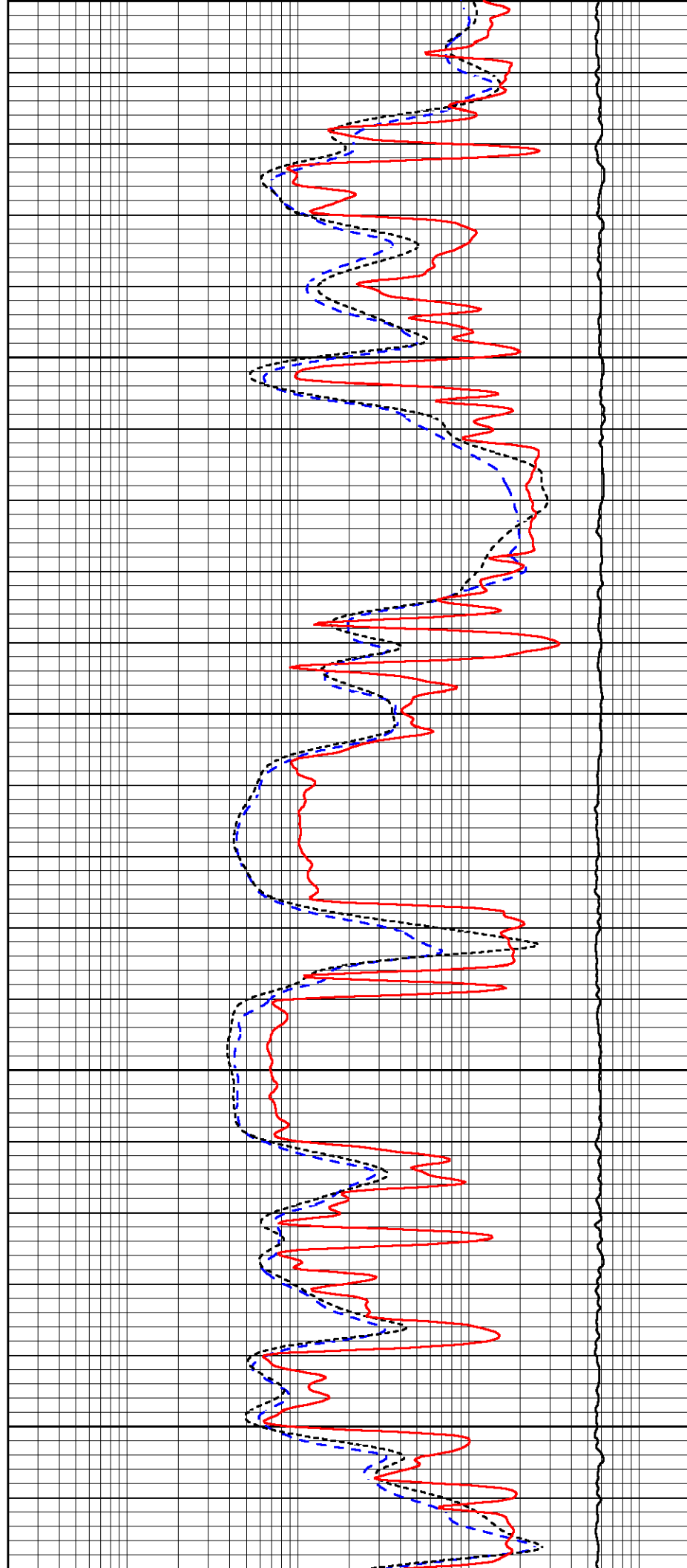
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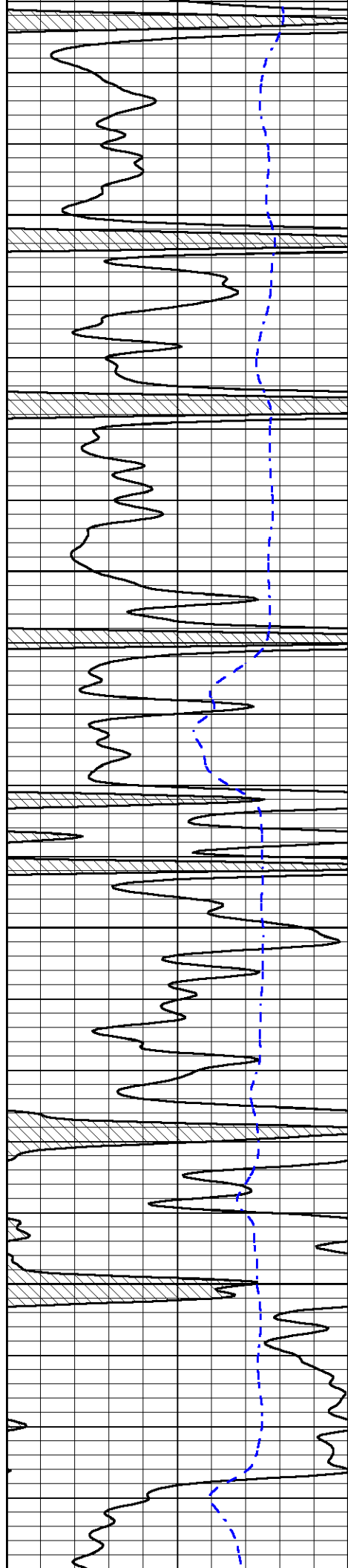
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4050

4100

4150



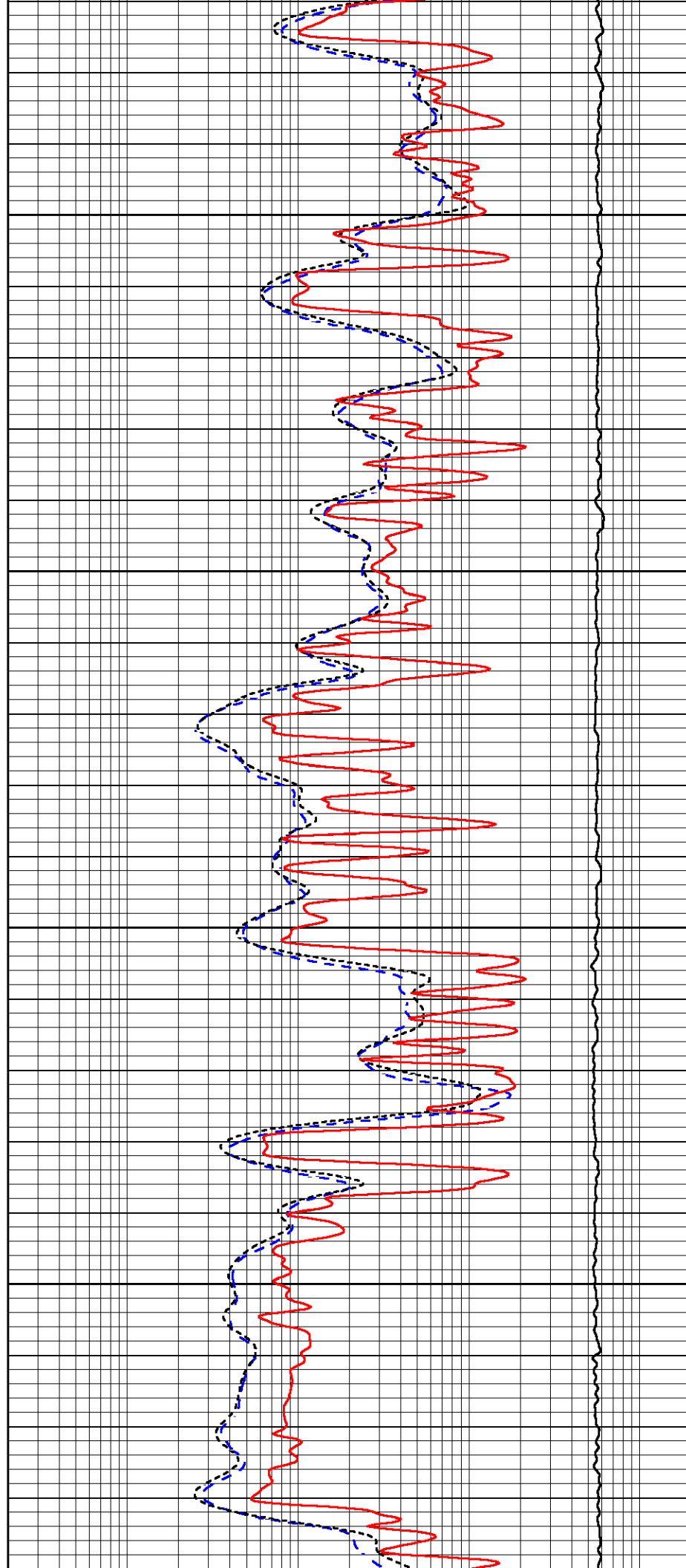


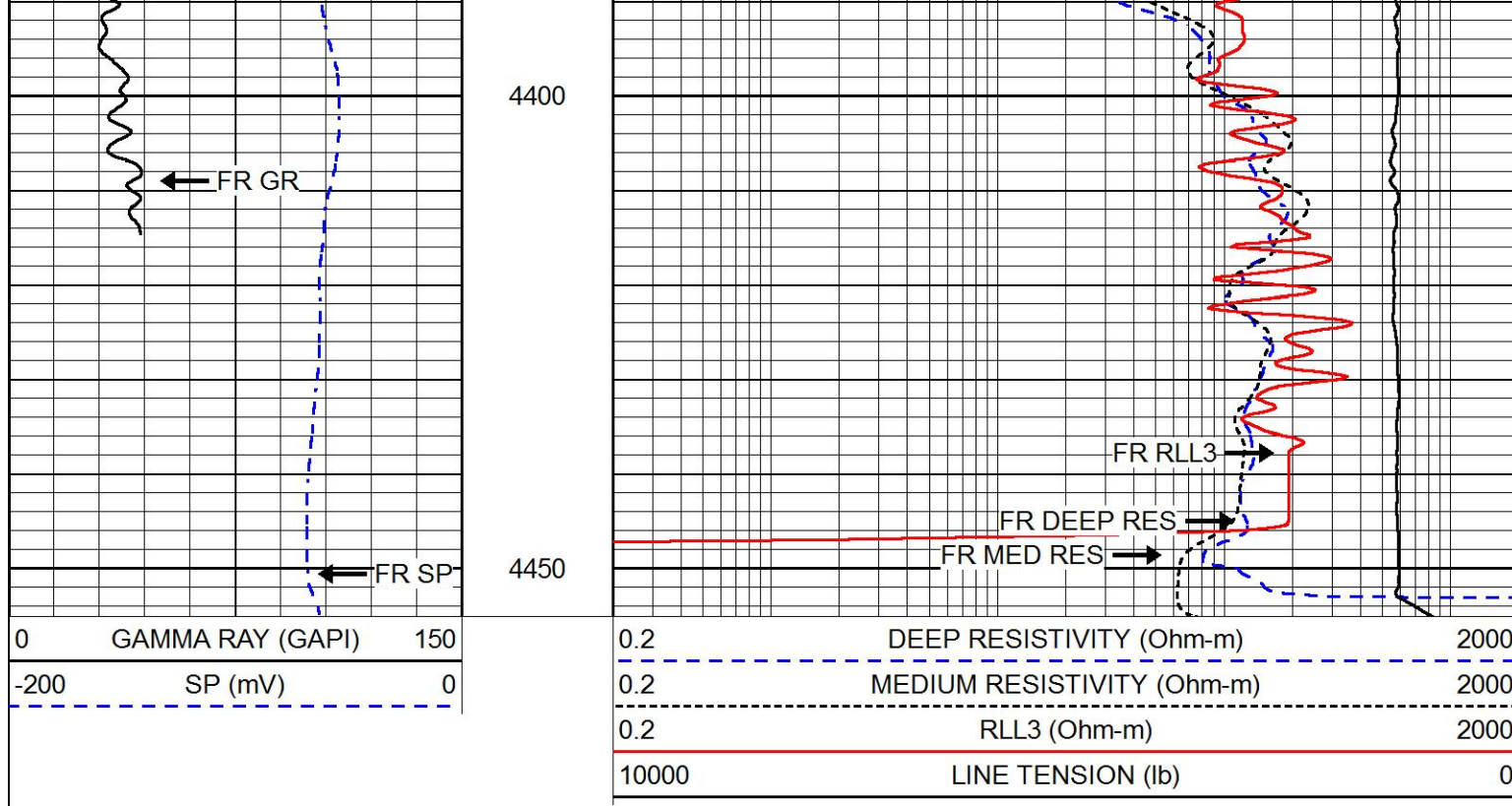
4200

4250

4300

4350



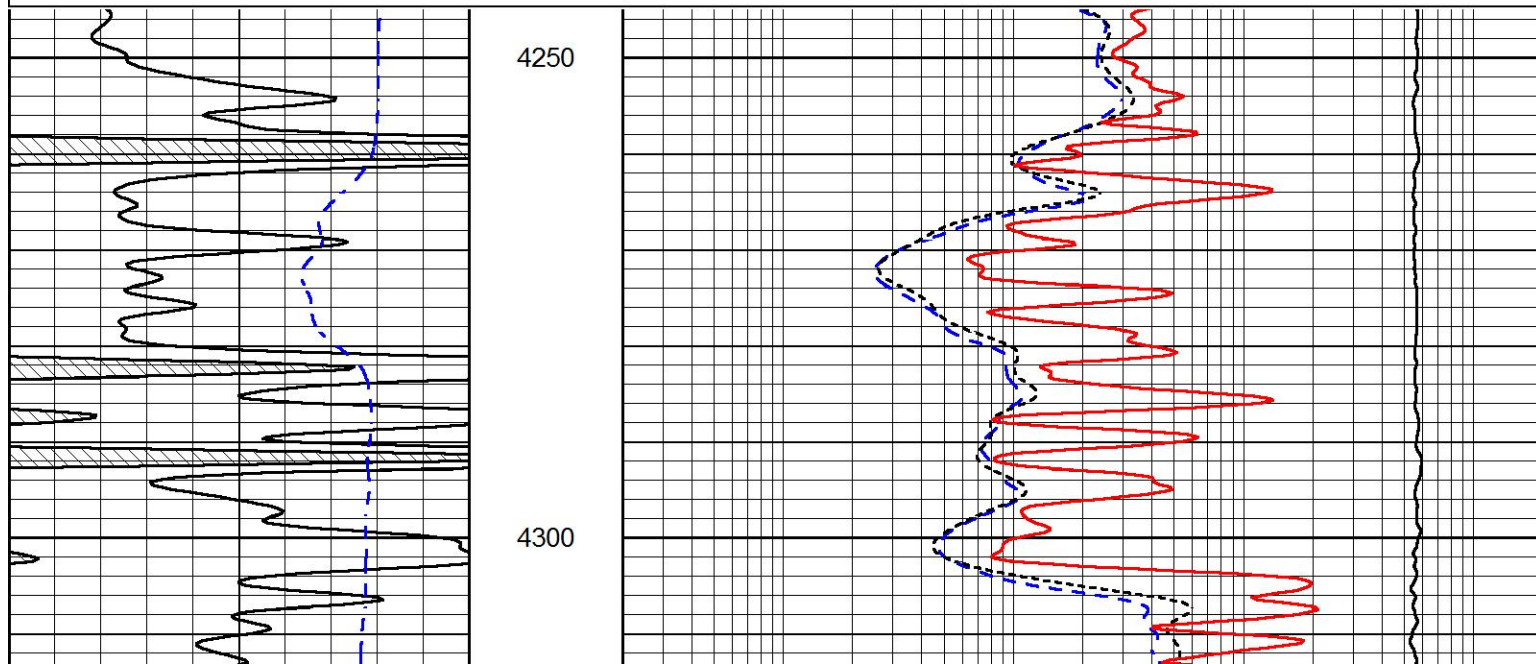
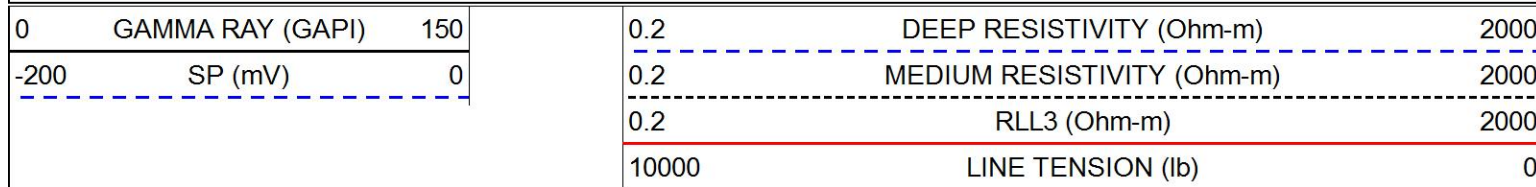


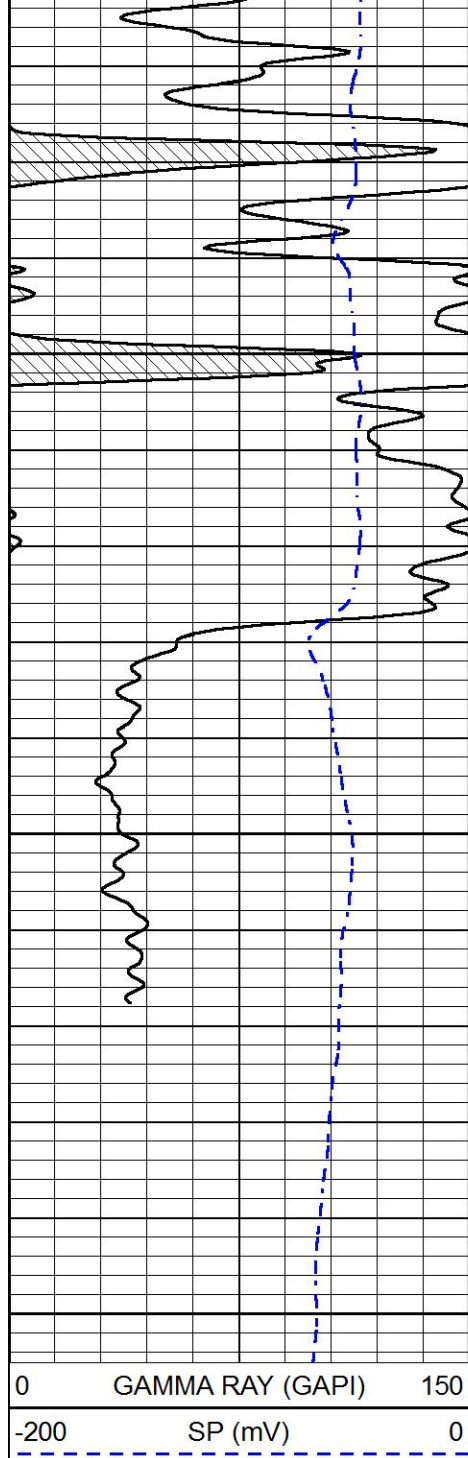
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

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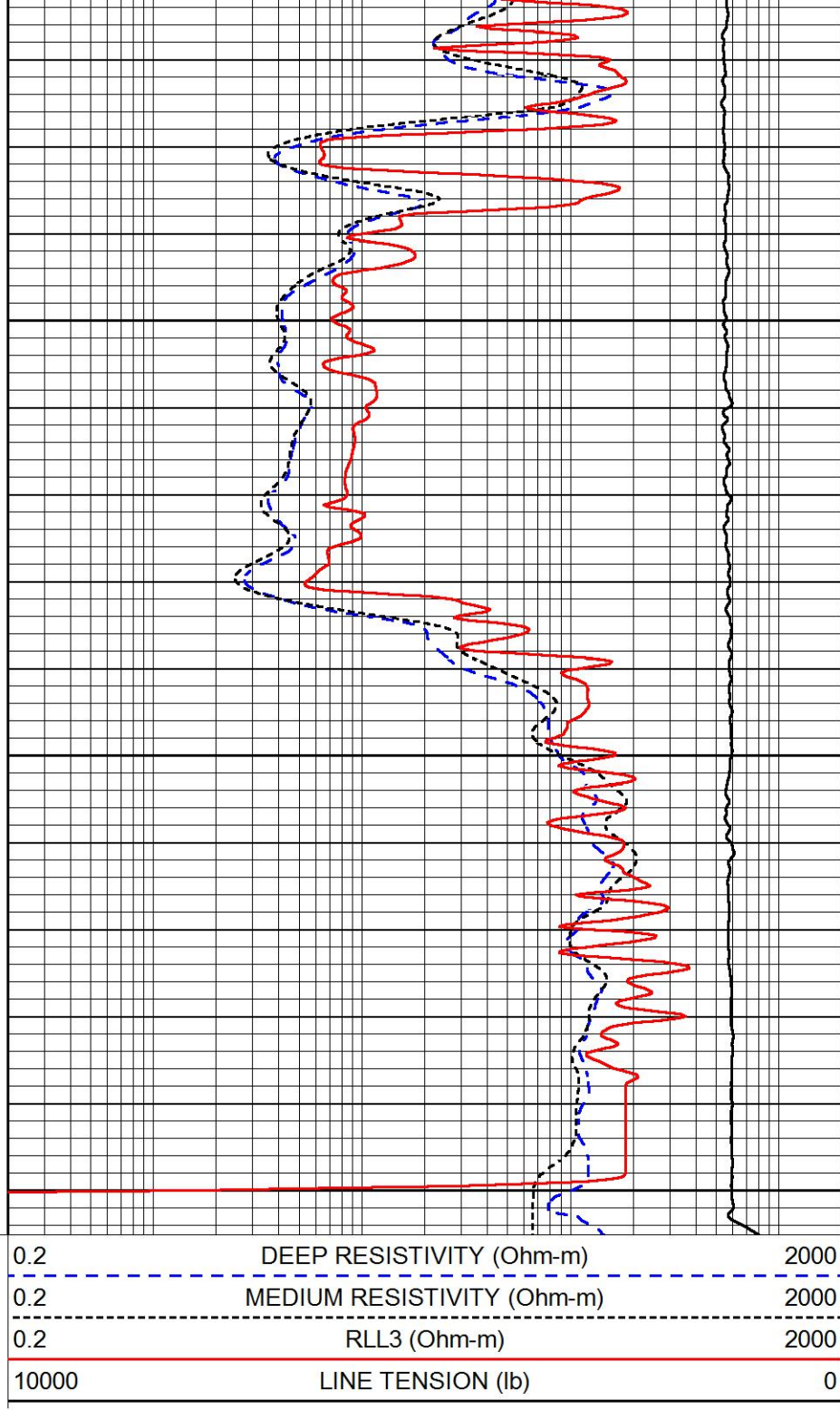




4350

4400

4450



Company	Shakespeare Oil Co., Inc.
Well	Ottley #3-21
Field	Chalk Buttes
County	Logan
State	Kansas