



MIDWEST WIRELINE

DUAL INDUCTION
LOG

CompanyAnchor Bay Petroleum LLC		Company Anchor Bay Petroleum LLC	
Well	S&T #1	Well	S&T #1
Field		Field	
County	Rooks	County	Rooks
State	Kansas	State	Kansas
Location: API #: 15-163-24465-00-00		Other Services	
Permanent Datum NE NW SW SW Log Measured From 1108 FSL & 4905 FEL Drilling Measured From Kelly Bushing		C/NL/CDL MEL	
SEC 27 TWP 8S RGE 18W		Elevation K.B. 1975 D.F. G.L. 1967	
Date	10/29/2022		
Run Number	One		
Depth Driller	3610		
Depth Logger	3611		
Bottom Logged Interval	3610		
Top Log Interval	200		
Casing Driller	8.625 @ 210		
Casing Logger	208		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	5600		
Density / Viscosity	9.2 59		
pH / Fluid Loss	10.0 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.75 @ 73		
Rmf @ Meas. Temp	0.56 @ 73		
Rmc @ Meas. Temp	1.01 @ 73		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.49 @ 112		
Operating Rig Time	2 Hours		
Max Rec. Temp. F	112		
Equipment Number	P-24		
Location	Hays		
Recorded By	T. Martin		
Witnessed By	Ed Glassman		

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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.

Plainville, KS, N to Rd R,
1.25 W, N into

Log Measured From: Kelly Bushing 8 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: T. Martin		Primary Witness: Ed Glassman	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33			GR-M&W (106)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48			CNT-M&W (207-MW)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68			CDL-M&W (307-11)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58			ML-PSIML (401)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50						
CILD	8.33			DIL-M&W (501 HT)	18.25	3.50	220.00
CILM	4.50						
SP	0.20						
Dataset: anchorbay_s&t #1.db: field/well/StkMI/pass3.1 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\anchorbay_s&t #1.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	112	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	155	60		3611

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

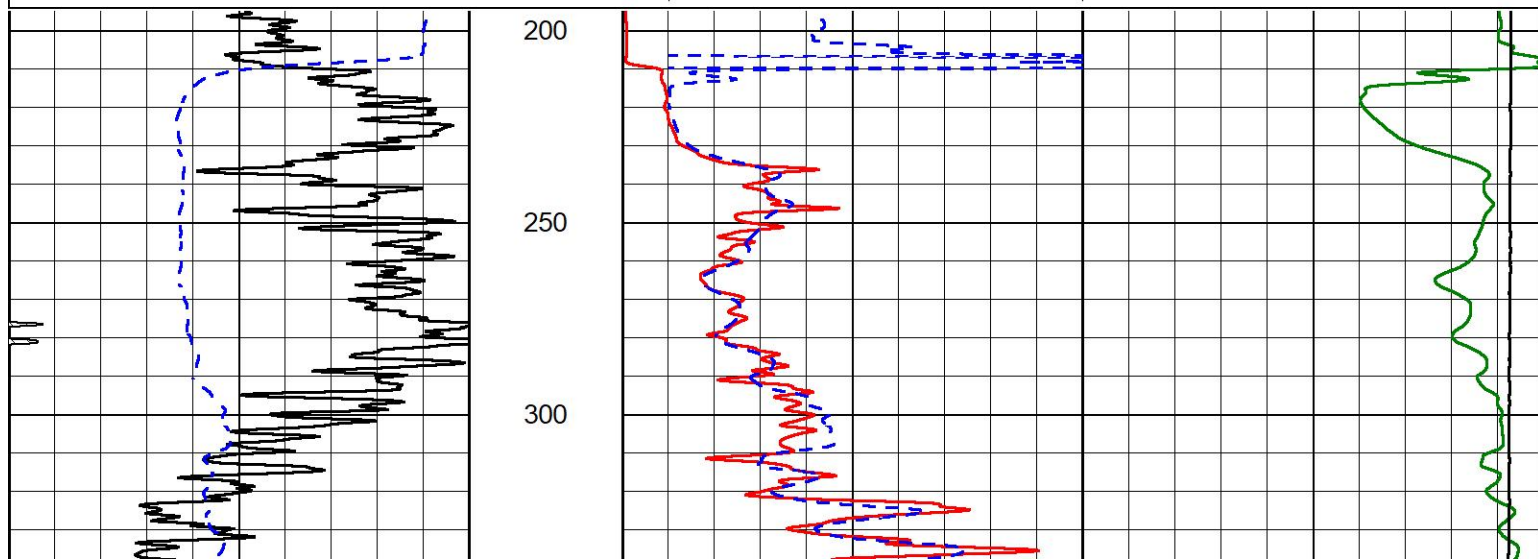


2" SCALE RESISTIVITY

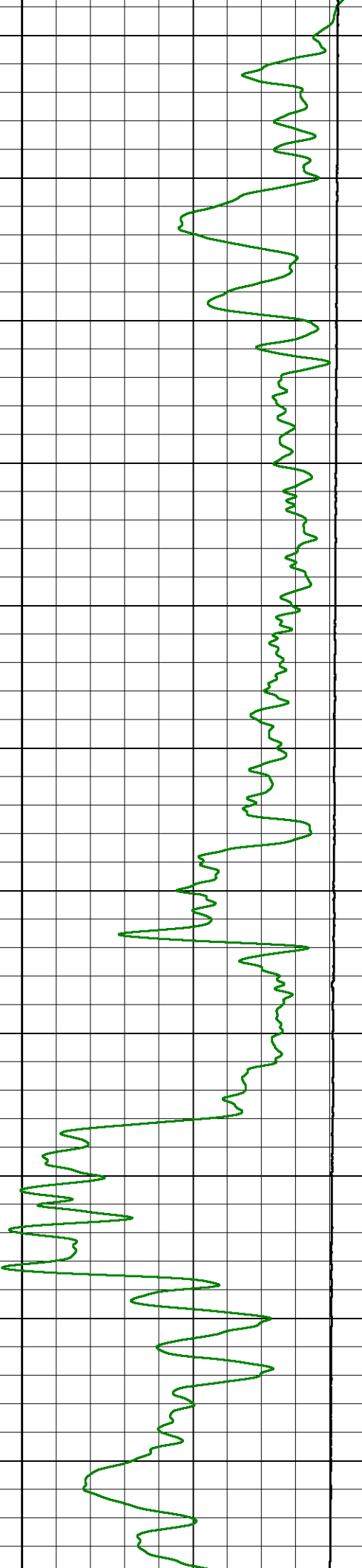
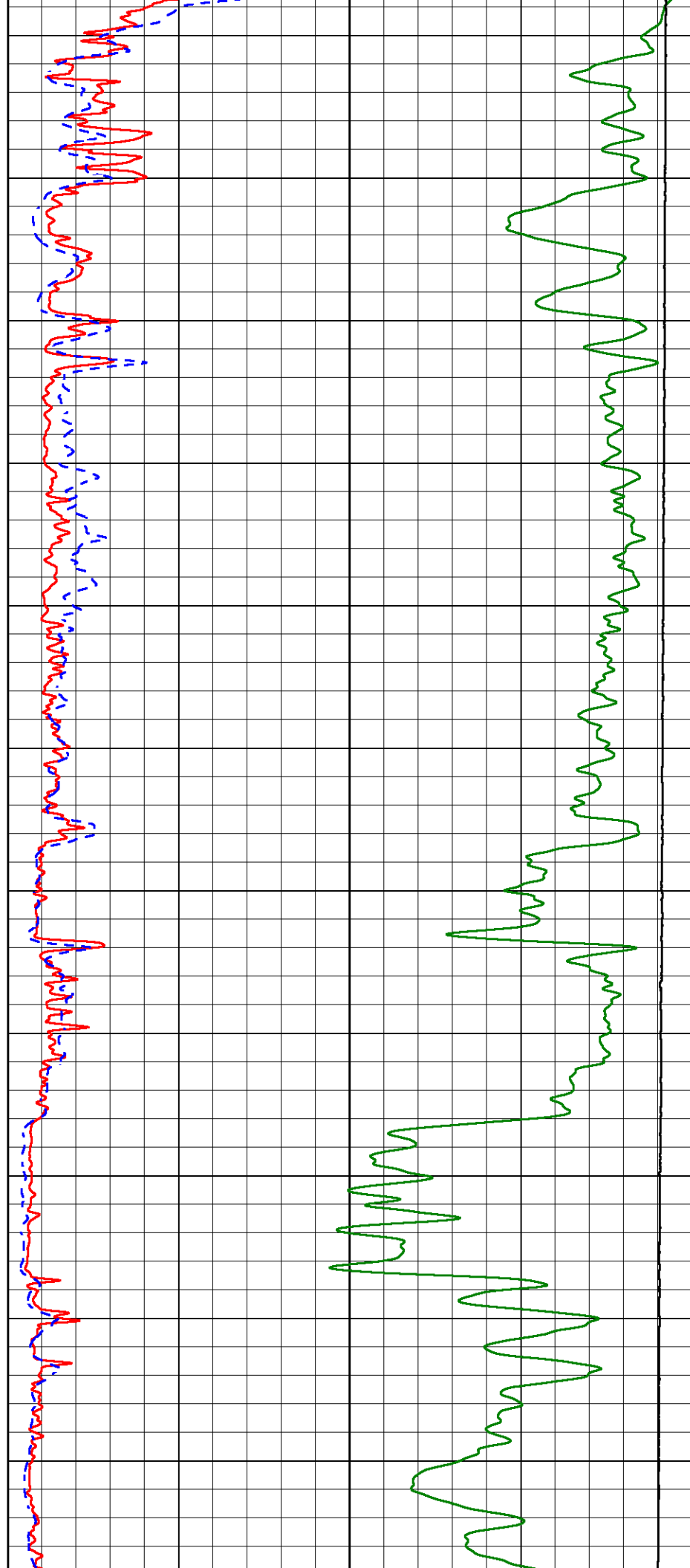
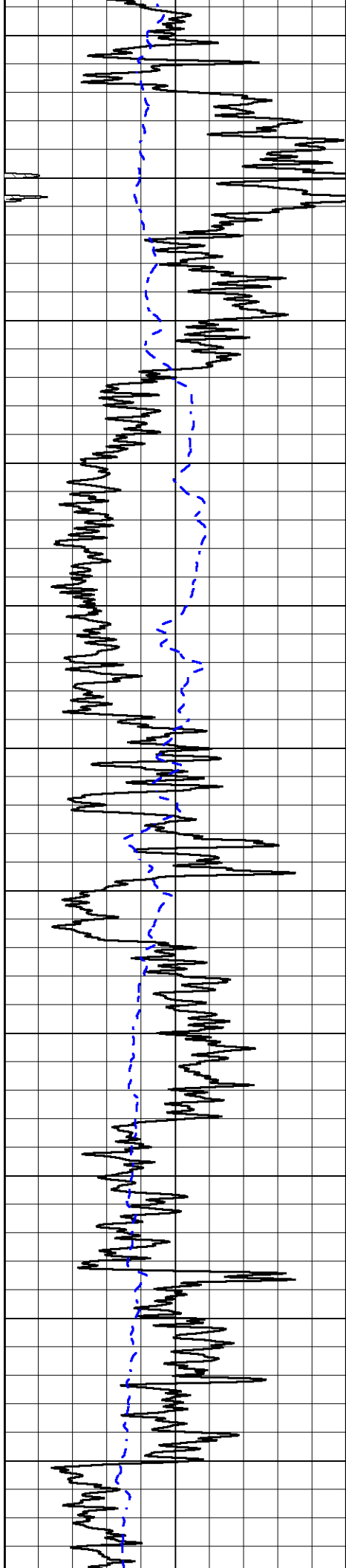
MAIN PASS

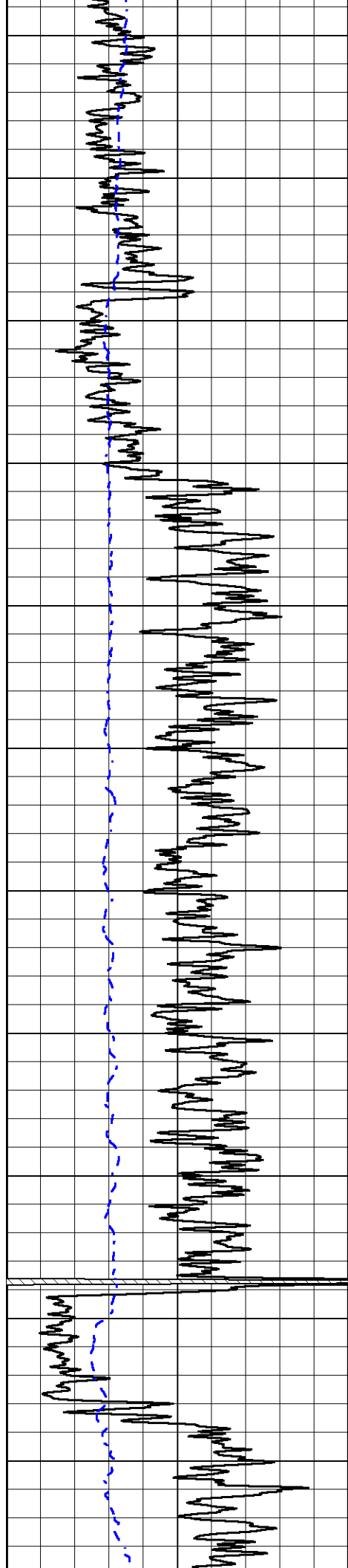
Database File anchorbay_s&t #1.db
Dataset Pathname StkMI/pass3.2
Presentation Format _dil2in
Dataset Creation Sat Oct 29 19:58:48 2022
Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	1000	Conductivity (mmho/m)	0
-200	SP (mV)	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



350
400
450
500
550
600
650
700
750
800
850





900

950

1000

1050

1100

1150

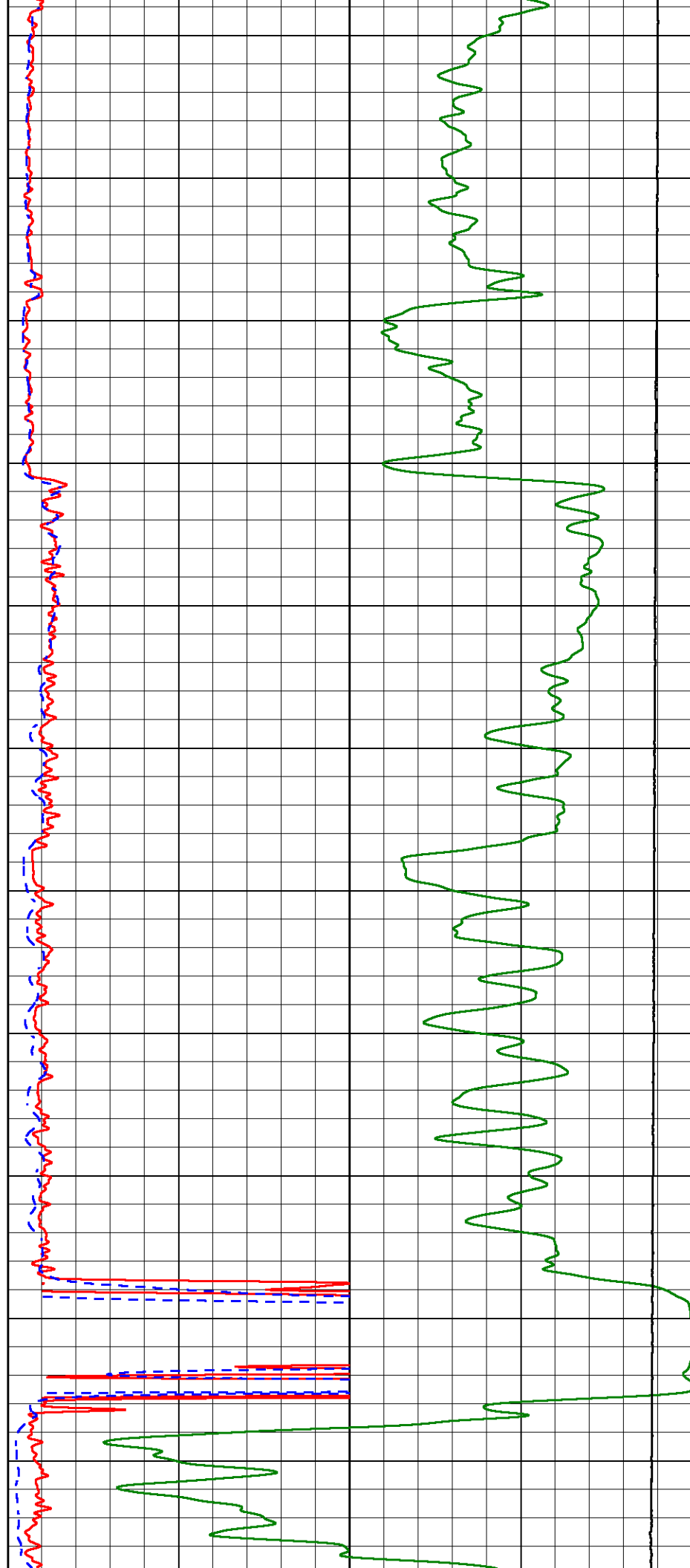
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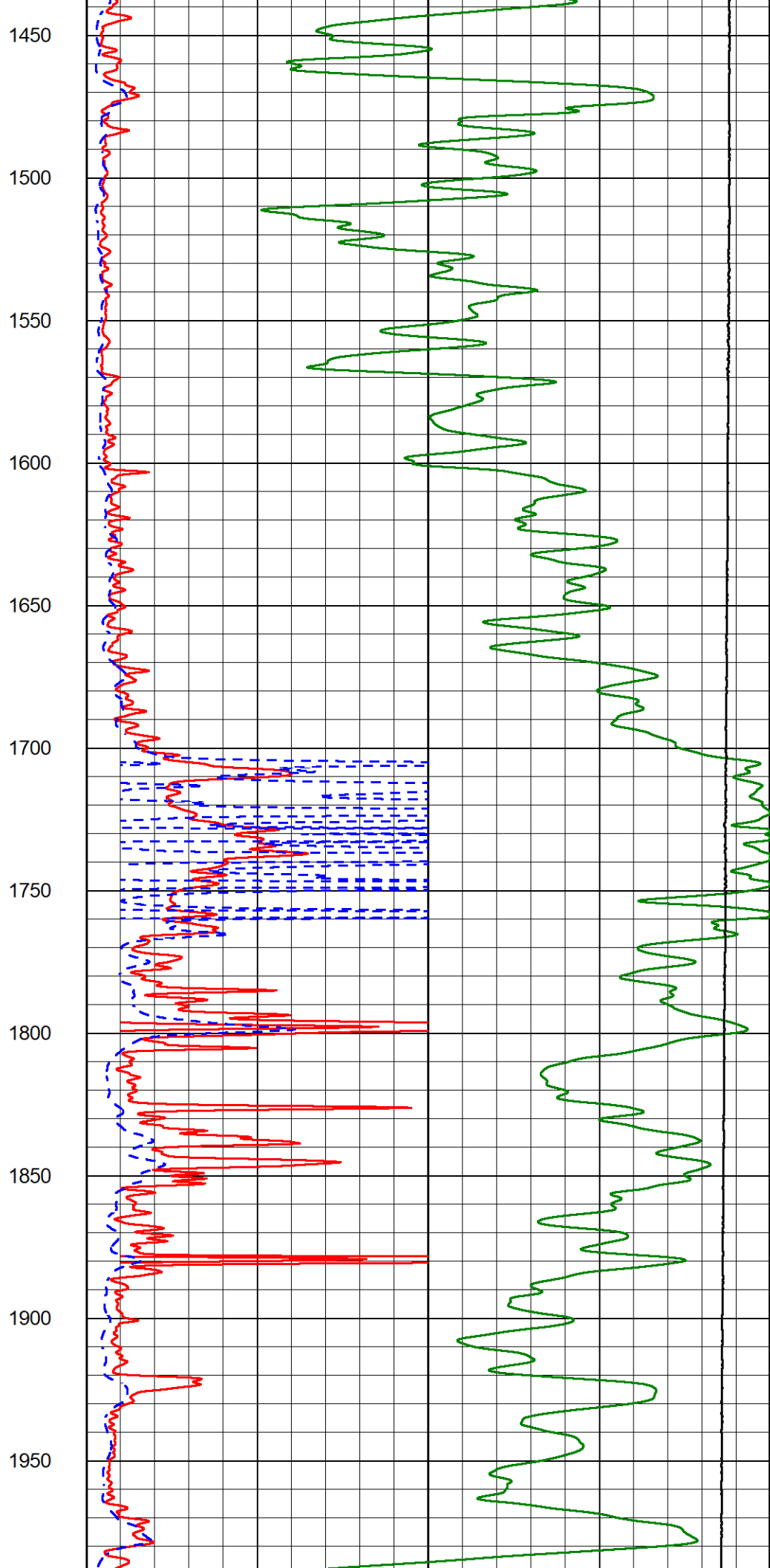
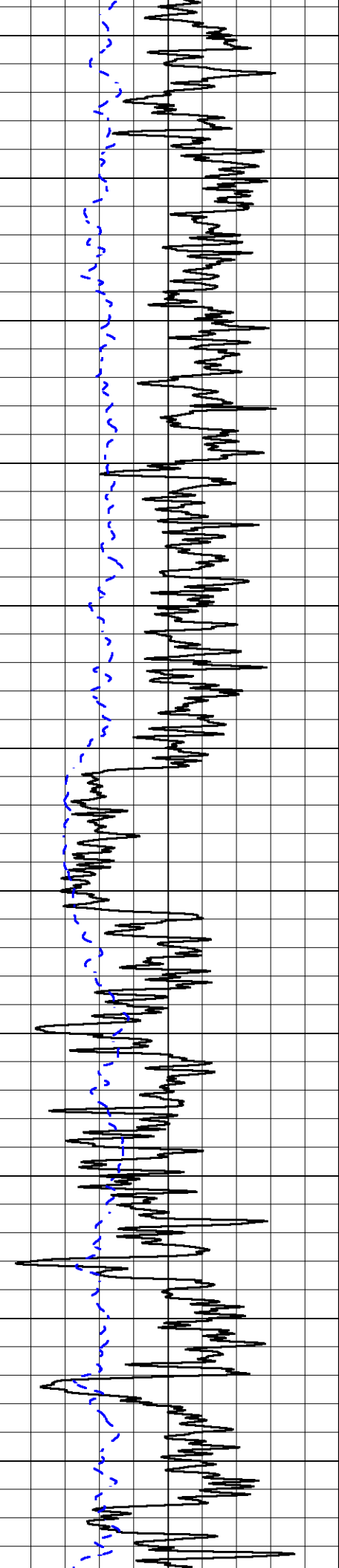
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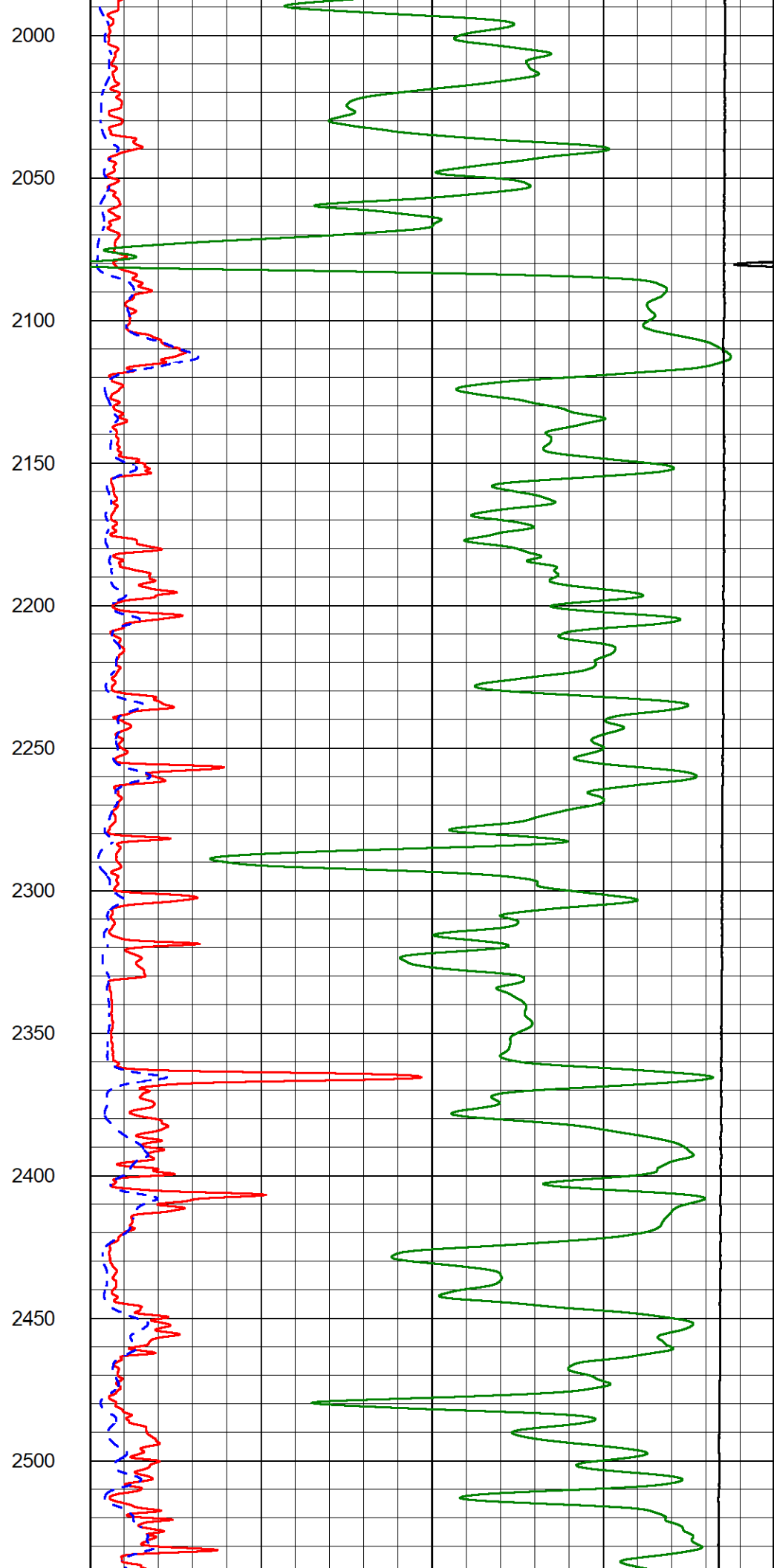
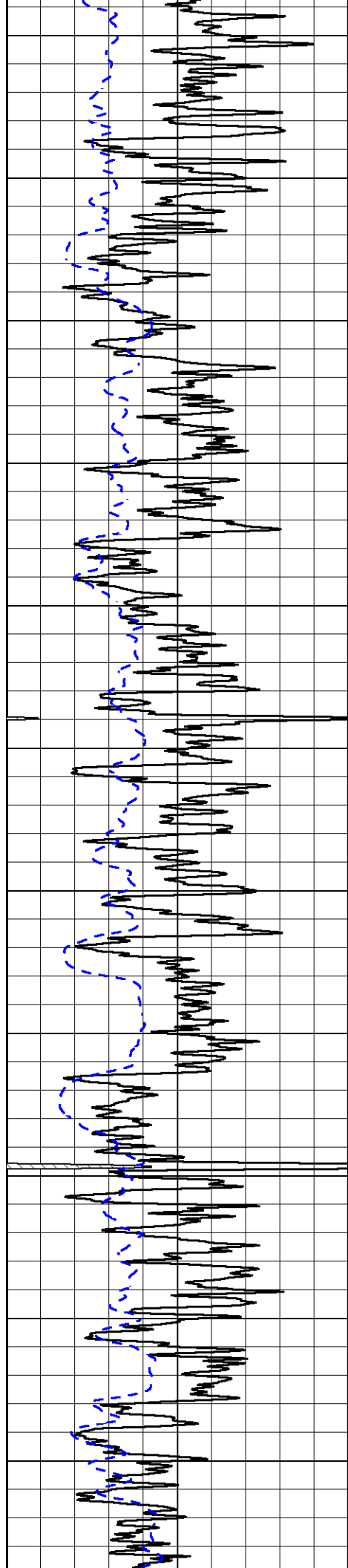
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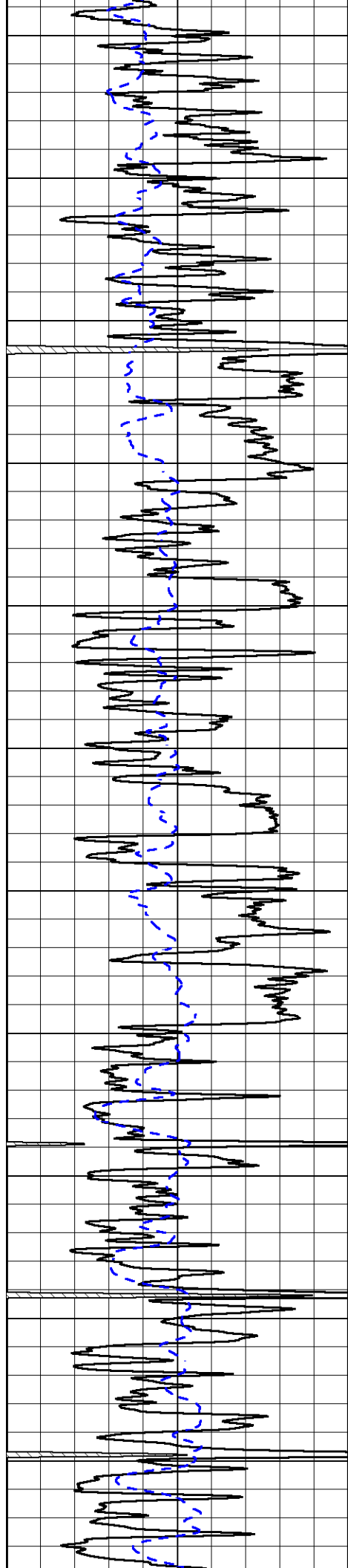
1350

1400









2550

2600

2650

2700

2750

2800

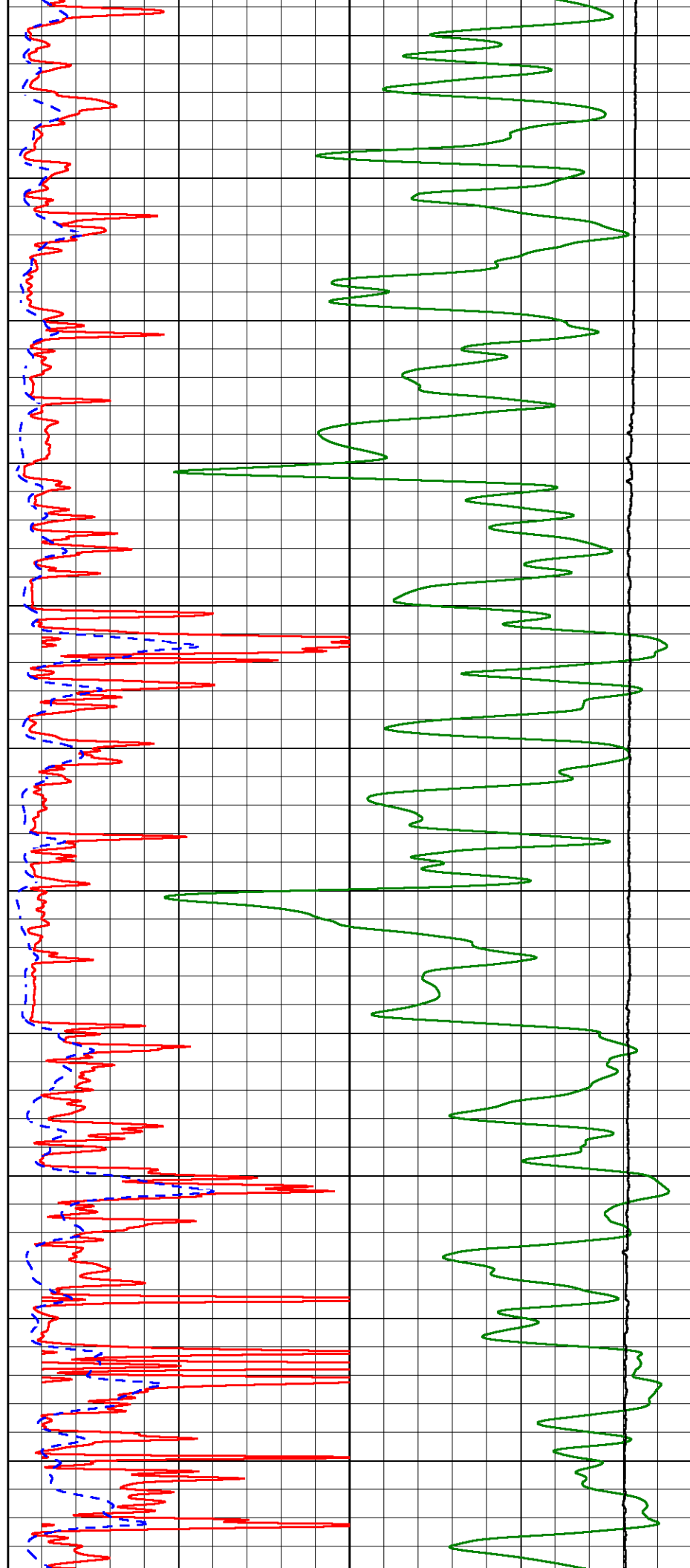
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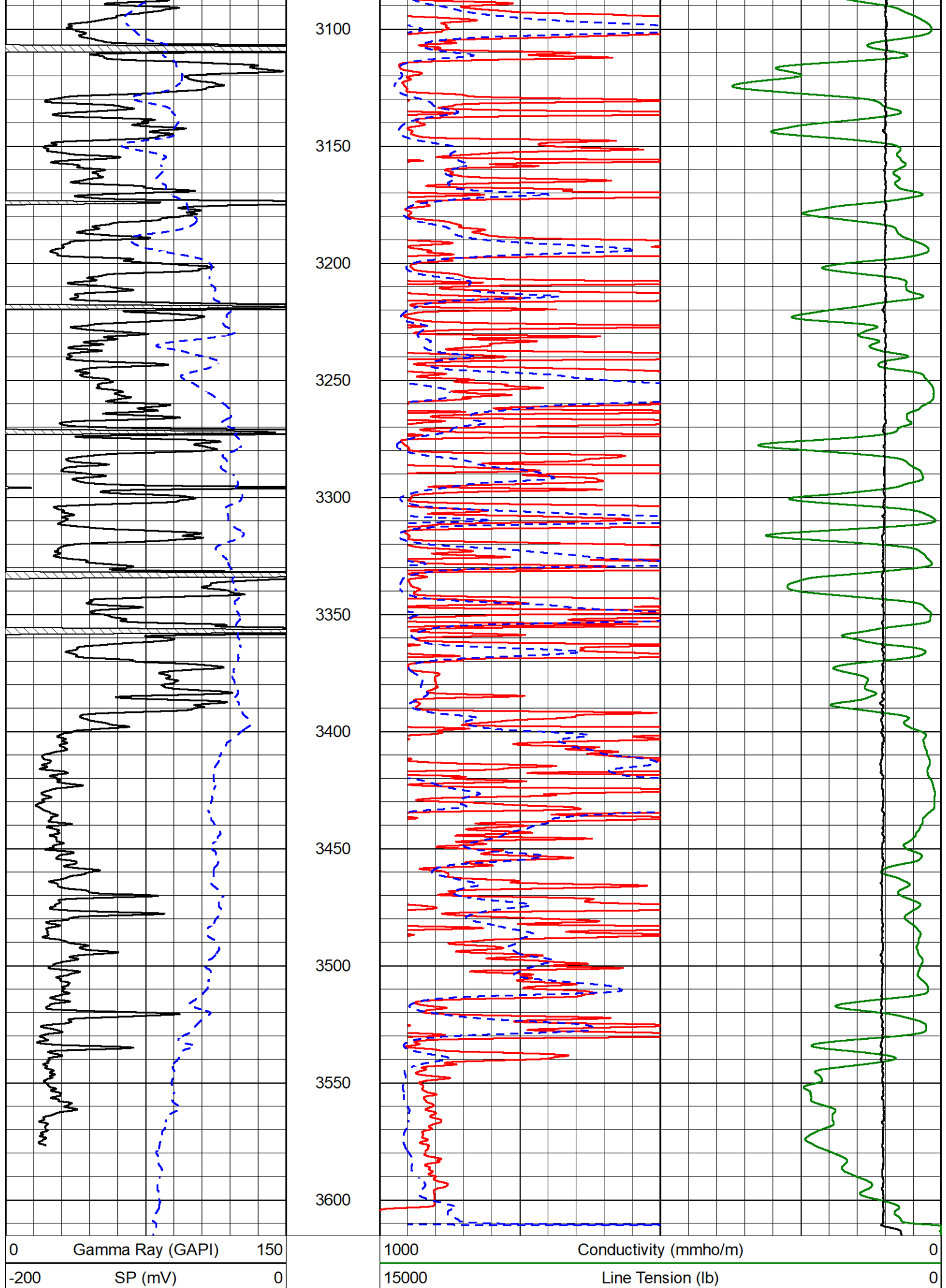
2900

2950

3000

3050





0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
Shallow Resistivity		
50	(Ohm-m)	200
50	Deep Resistivity (Ohm-m)	200



MIDWEST WIRELINE

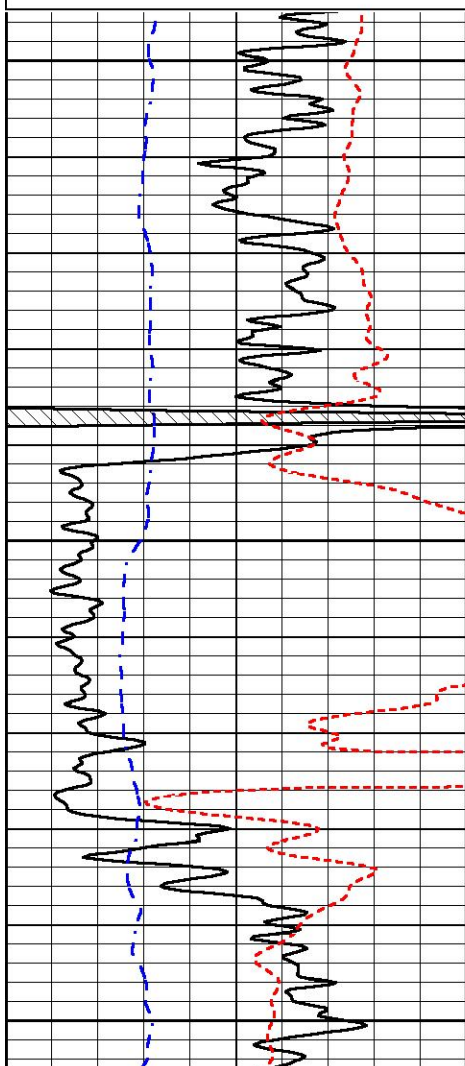
ANHYDRITE SECTION

MAIN PASS

Database File anchorbay_s&t #1.db
Dataset Pathname StkMI/pass3.4
Presentation Format _dil
Dataset Creation Sat Oct 29 19:47:17 2022
Charted by Depth in Feet scaled 1:240

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

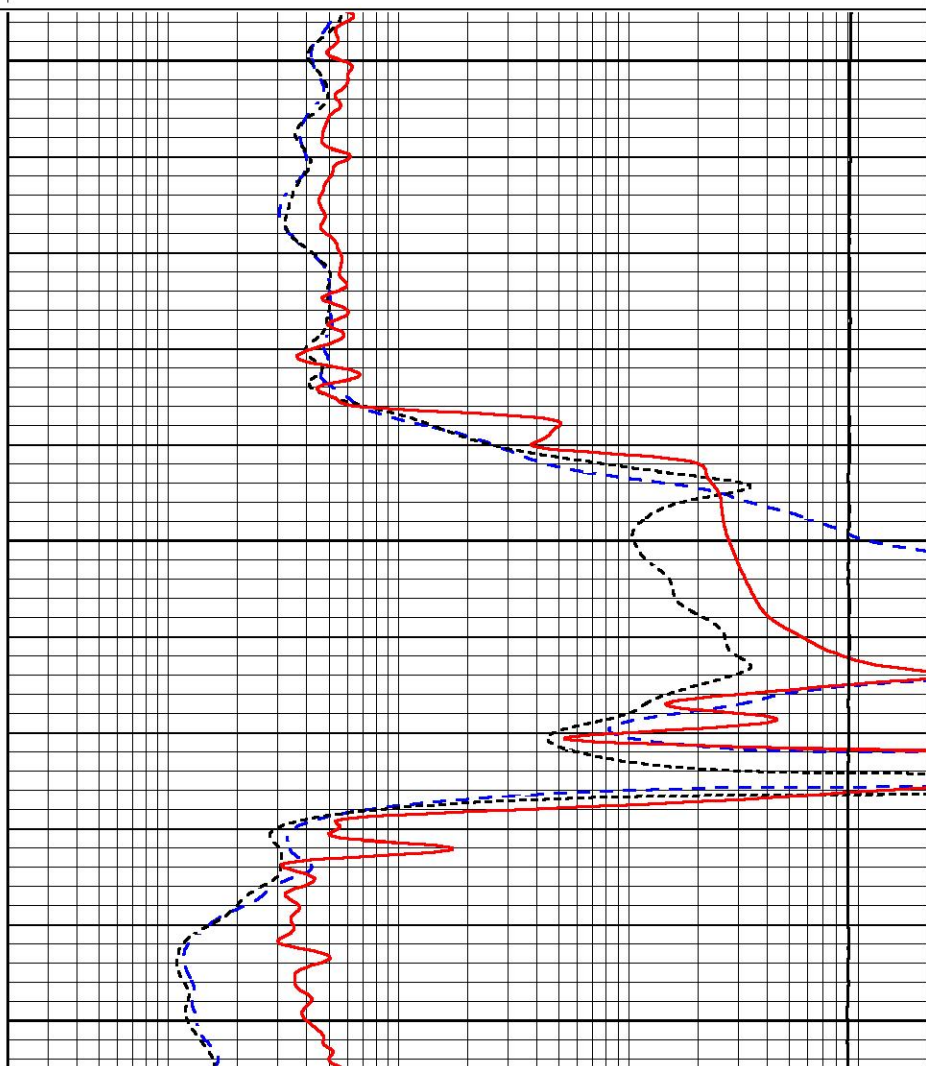
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0



1300

1350

1400



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	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0



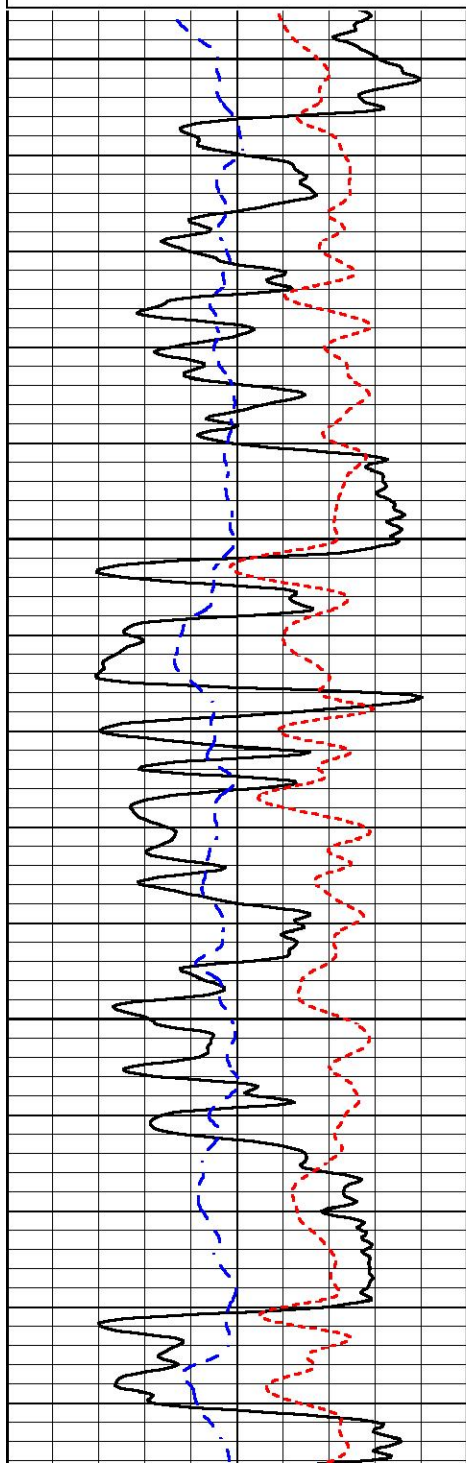
DETAIL SECTION

MAIN PASS

Database File anchorbay_s&t #1.db
Dataset Pathname StkMI/pass3.1
Presentation Format _dil
Dataset Creation Sat Oct 29 19:59:13 2022
Charted by Depth in Feet scaled 1:240

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

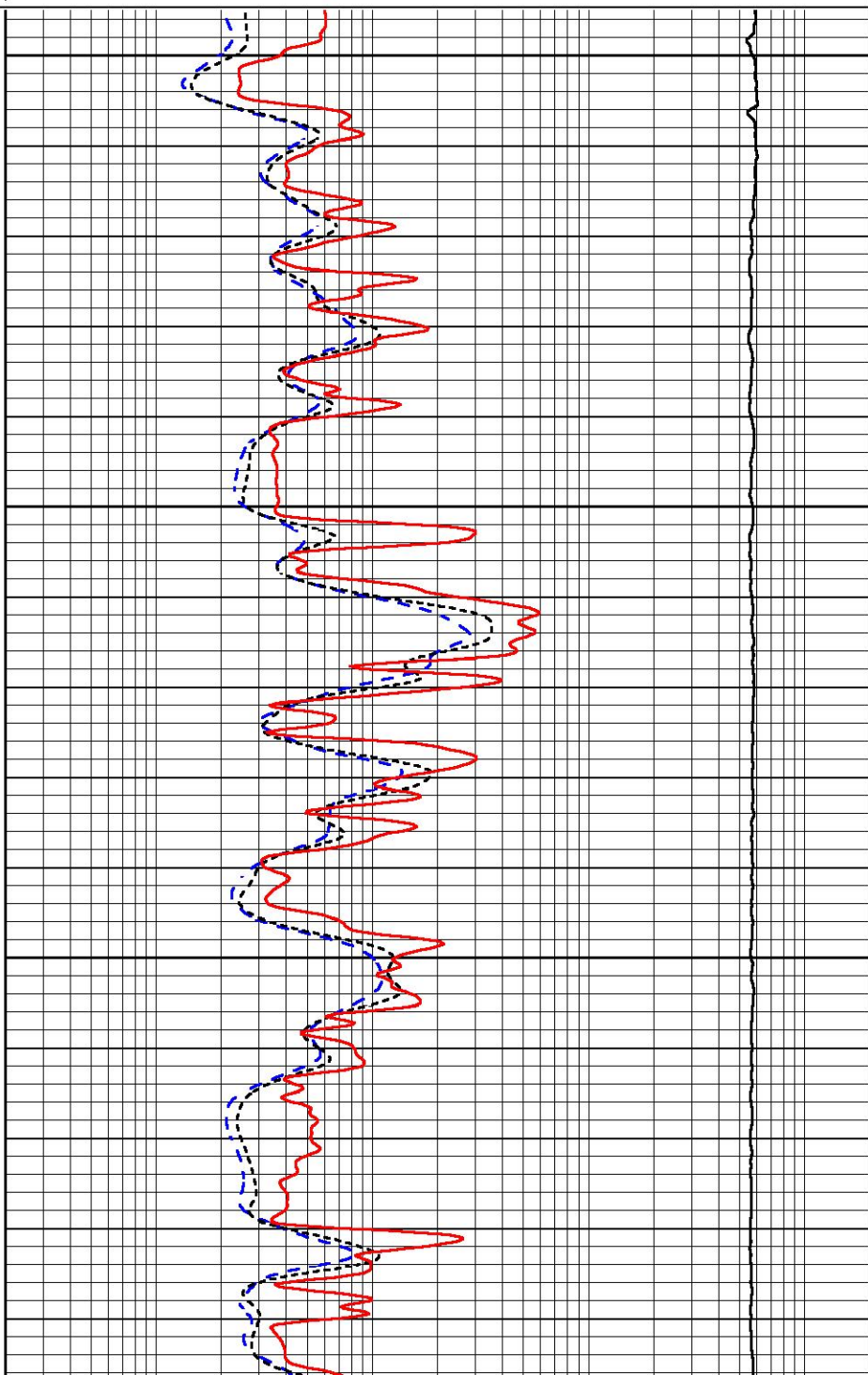
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

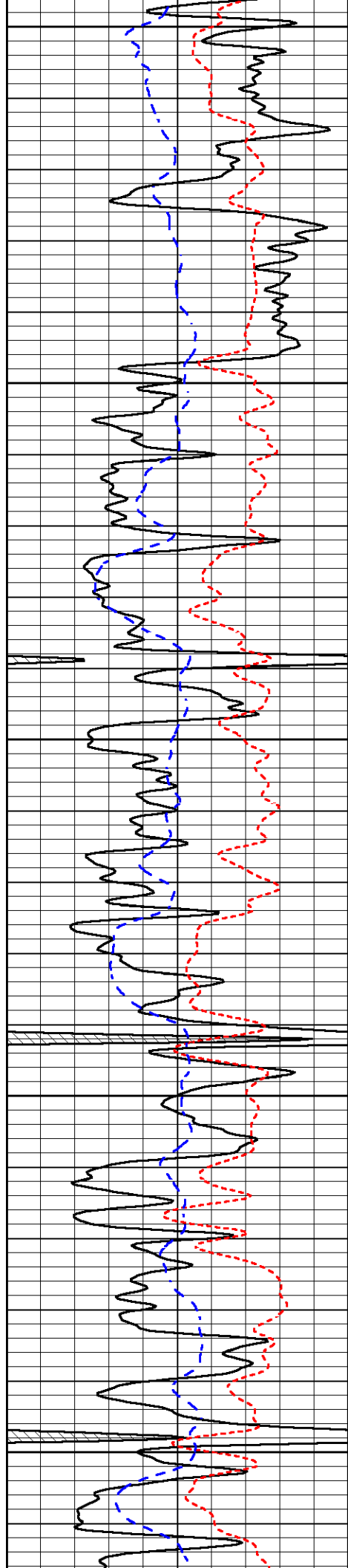


2700

2750

2800





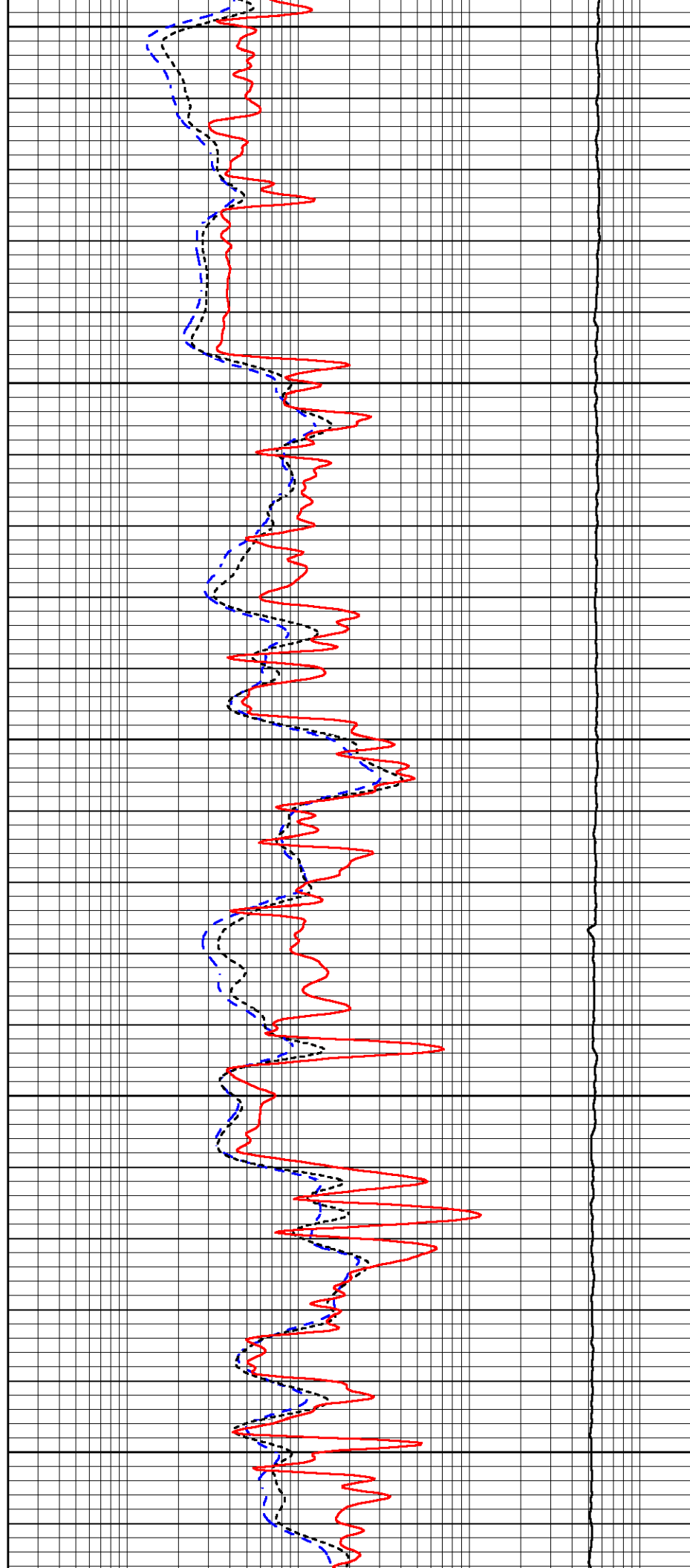
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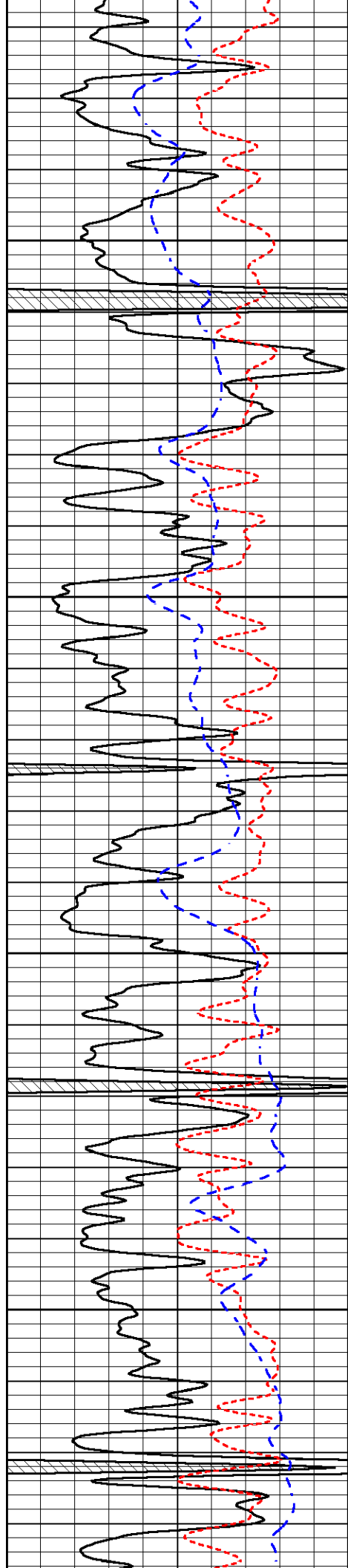
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2950

3000

3050



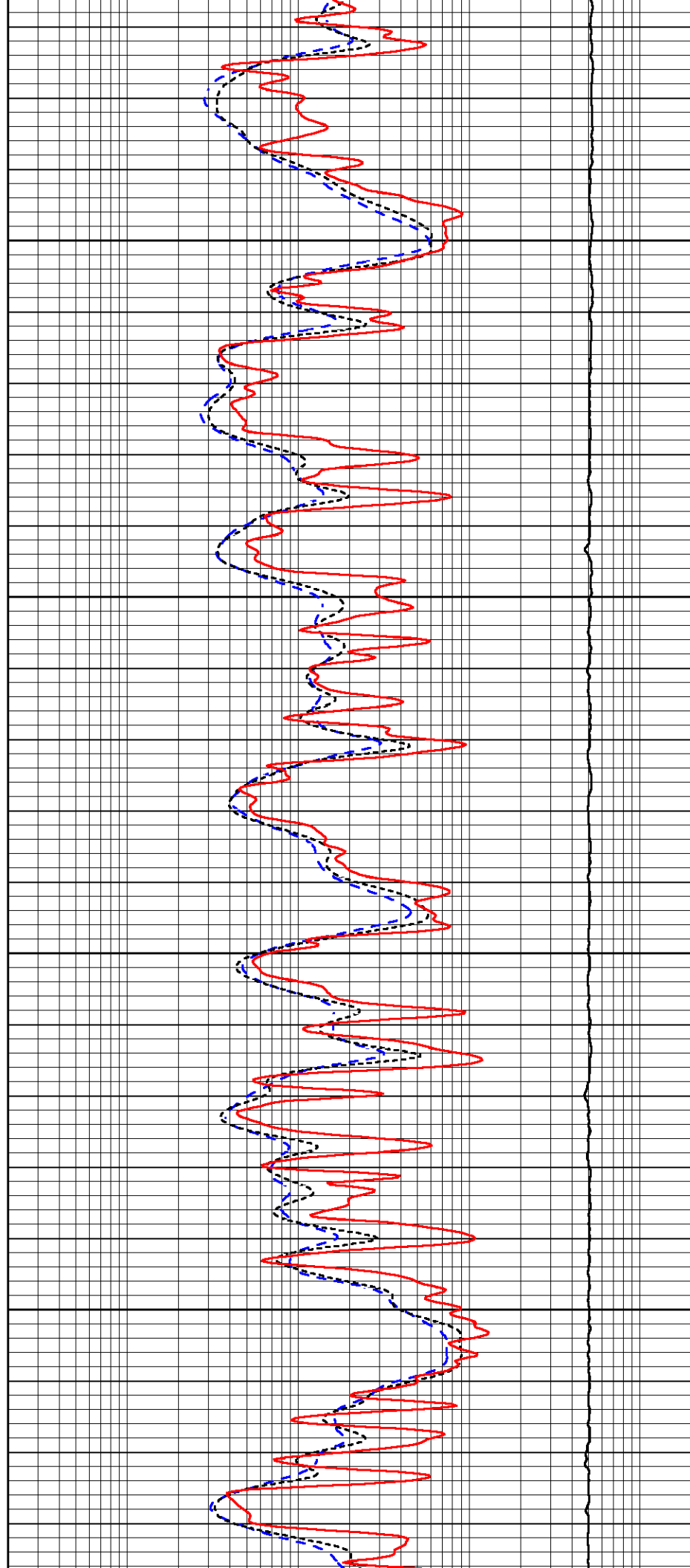


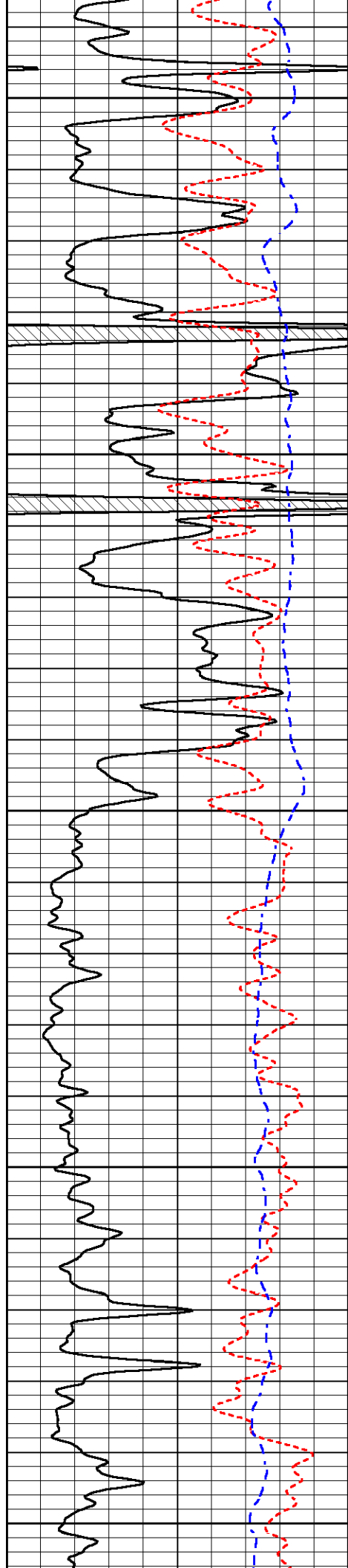
3100

3150

3200

3250





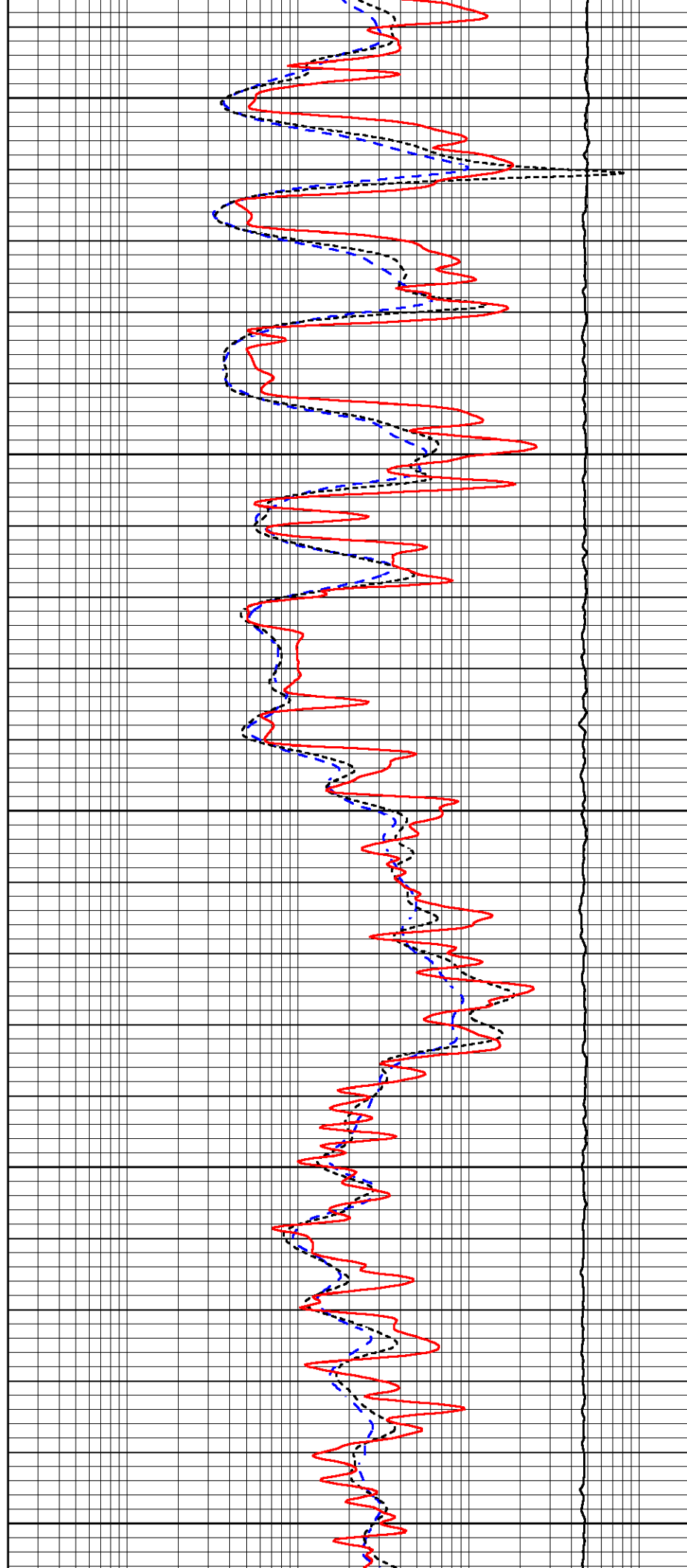
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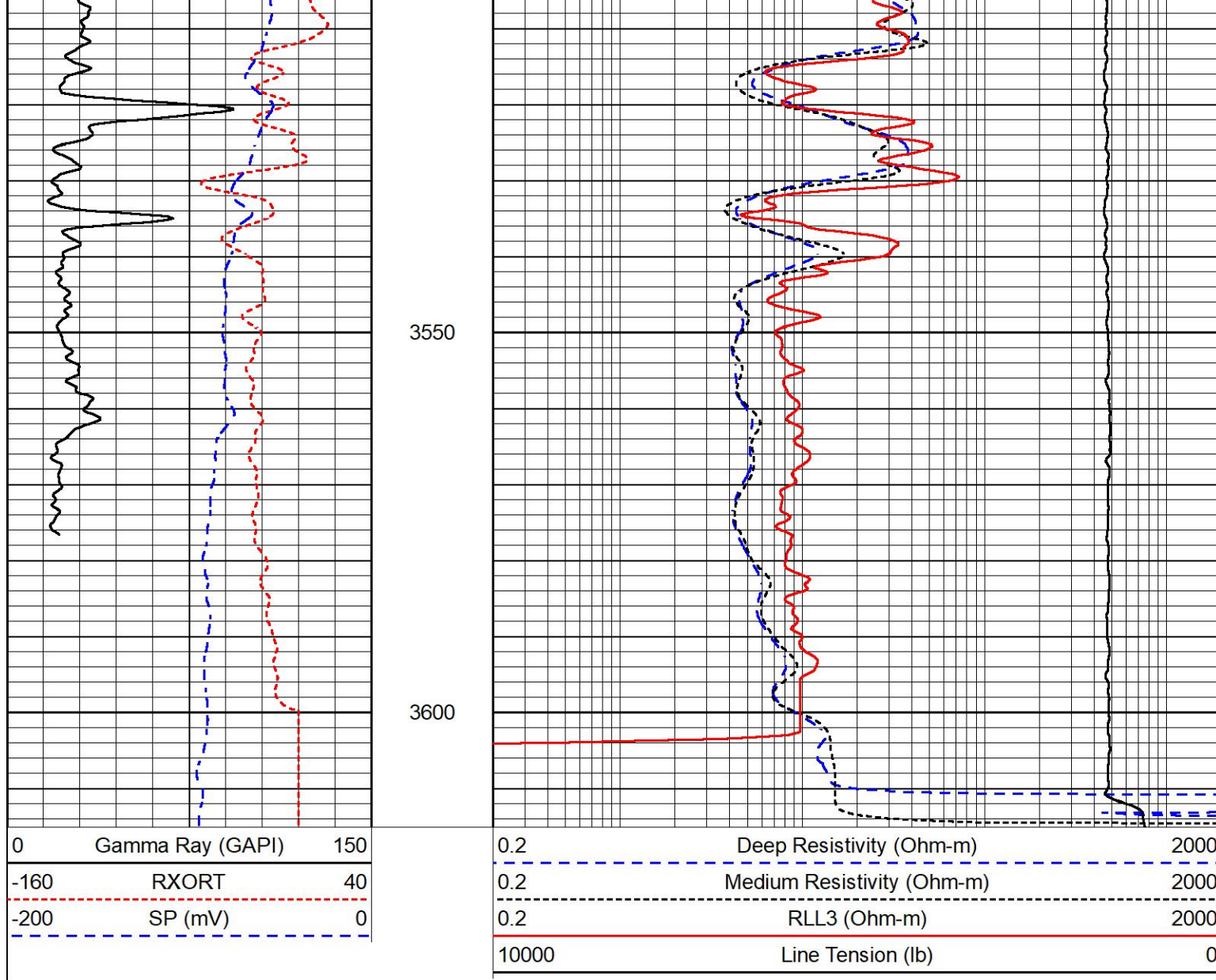
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3400

3450

3500





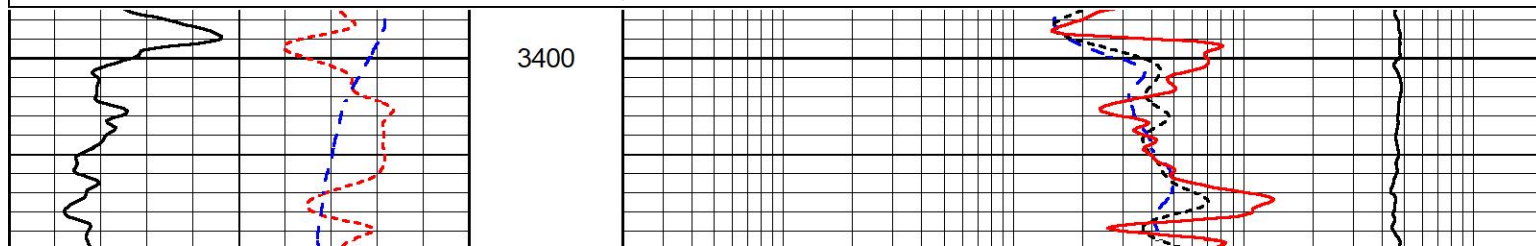
MIDWEST WIRELINE

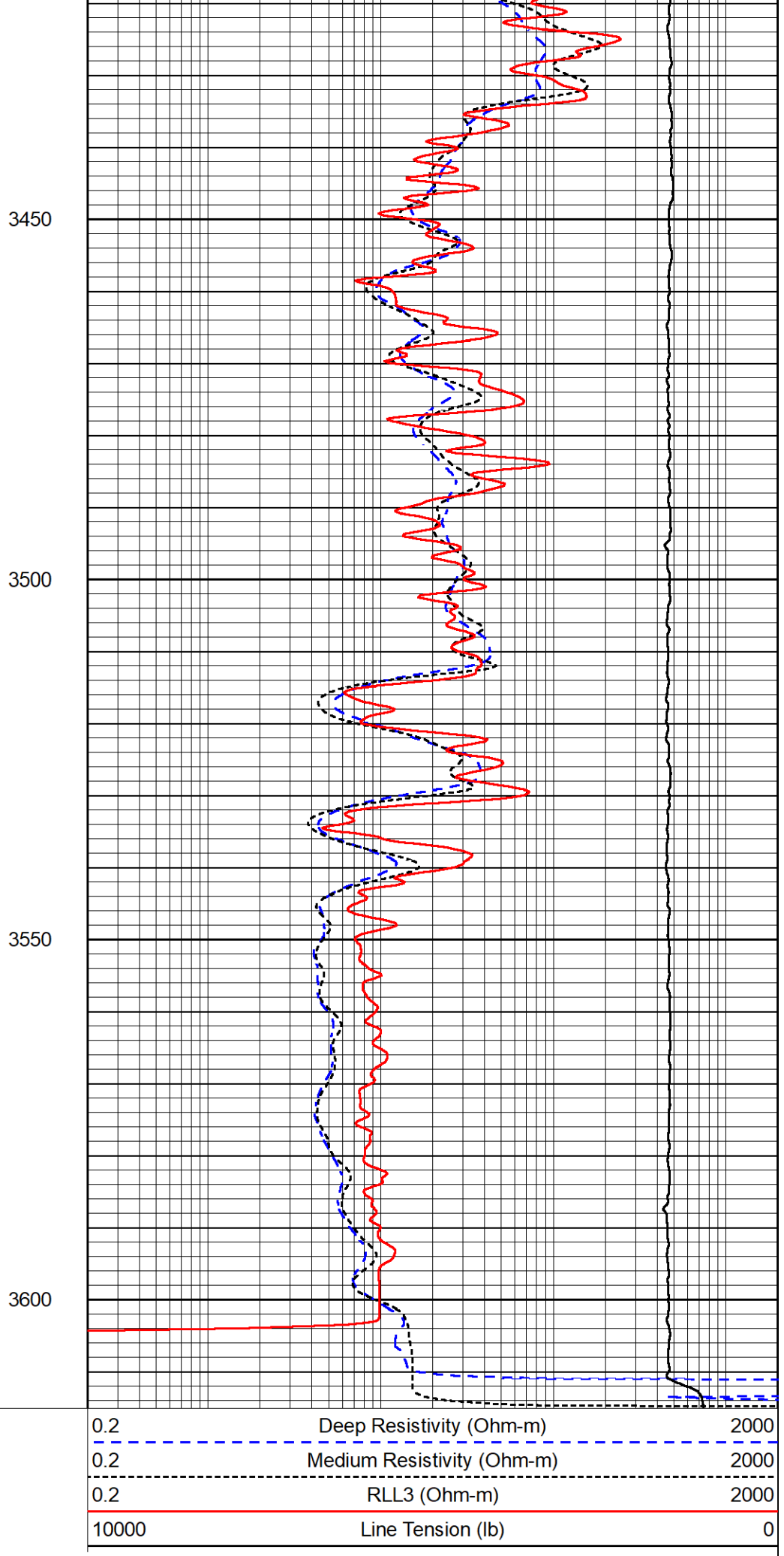
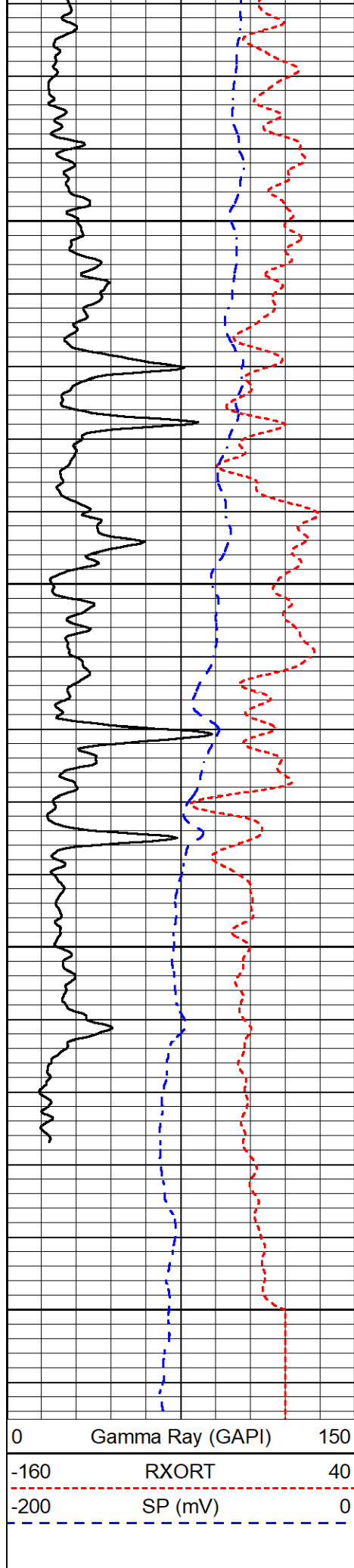
REPEAT SECTION

REPEAT PASS

Database File anchorbay_s&t #1.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _dil
 Dataset Creation Sat Oct 29 19:29:29 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	RLL3 (Ohm-m)	2000
			10000	Line Tension (lb)	0





Database File	anchorbay_s&t #1.db
Dataset Pathname	StkML/pass3.1
Dataset Creation	Sat Oct 29 19:59:13 2022

Serial-Model: 501 HT-M&W
Surface Cal Performed: Tue Oct 11 22:01:45 2022

Readings	References	Results
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Serial-Model: 401-PSIML
Performed: Wed Oct 19 20:26:45 2022

Readings	References	Results
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Serial-Model: 307-11-M&W
Source #: 20762B
Master Calibration Performed: Sat Aug 27 10:20:16 2022

Density	Far Detector	Near Detector
0.0000	0.0000	0.0000
0.0001	0.0000	0.0000
0.0002	0.0000	0.0000
0.0003	0.0000	0.0000
0.0004	0.0000	0.0000
0.0005	0.0000	0.0000
0.0006	0.0000	0.0000
0.0007	0.0000	0.0000
0.0008	0.0000	0.0000
0.0009	0.0000	0.0000
0.0010	0.0000	0.0000
0.0011	0.0000	0.0000
0.0012	0.0000	0.0000
0.0013	0.0000	0.0000
0.0014	0.0000	0.0000
0.0015	0.0000	0.0000
0.0016	0.0000	0.0000
0.0017	0.0000	0.0000
0.0018	0.0000	0.0000
0.0019	0.0000	0.0000
0.0020	0.0000	0.0000
0.0021	0.0000	0.0000
0.0022	0.0000	0.0000
0.0023	0.0000	0.0000
0.0024	0.0000	0.0000
0.0025	0.0000	0.0000
0.0026	0.0000	0.0000
0.0027	0.0000	0.0000
0.0028	0.0000	0.0000
0.0029	0.0000	0.0000
0.0030	0.0000	0.0000
0.0031	0.0000	0.0000
0.0032	0.0000	0.0000
0.0033	0.0000	0.0000
0.0034	0.0000	0.0000
0.0035	0.0000	0.0000
0.0036	0.0000	0.0000
0.0037	0.0000	0.0000
0.0038	0.0000	0.0000
0.0039	0.0000	0.0000
0.0040	0.0000	0.0000
0.0041	0.0000	0.0000
0.0042	0.0000	0.0000
0.0043	0.0000	0.0000
0.0044	0.0000	0.0000
0.0045	0.0000	0.0000
0.0046	0.0000	0.0000
0.0047	0.0000	0.0000
0.0048	0.0000	0.0000
0.0049	0.0000	0.0000
0.0050	0.0000	0.0000
0.0051	0.0000	0.0000
0.0052	0.0000	0.0000
0.0053	0.0000	0.0000
0.0054	0.0000	0.0000
0.0055	0.0000	0.0000
0.0056	0.0000	0.0000
0.0057	0.0000	0.0000
0.0058	0.0000	0.0000
0.0059	0.0000	0.0000
0.0060	0.0000	0.0000
0.0061	0.0000	0.0000
0.0062	0.0000	0.0000
0.0063	0.0000	0.0000
0.0064	0.0000	0.0000
0.0065	0.0000	0.0000
0.0066	0.0000	0.0000
0.0067	0.0000	0.0000
0.0068	0.0000	0.0000
0.0069	0.0000	0.0000
0.0070	0.0000	0.0000
0.0071	0.0000	0.0000
0.0072	0.0000	0.0000
0.0073	0.0000	0.0000
0.0074	0.0000	0.0000
0.0075	0.0000	0.0000
0.0076	0.0000	0.0000
0.0077	0.0000	0.0000
0.0078	0.0000	0.0000
0.0079	0.0000	0.0000
0.0080	0.0000	0.0000
0.0081	0.0000	0.0000
0.0082	0.0000	0.0000
0.0083	0.0000	0.0000
0.0084	0.0000	0.0000
0.0085	0.0000	0.0000
0.0086	0.0000	0.0000
0.0087	0.0000	0.0000
0.0088	0.0000	0.0000
0.0089	0.0000	0.0000
0.0090	0.0000	0.0000
0.0091	0.0000	0.0000
0.0092	0.0000	0.0000
0.0093	0.0000	0.0000
0.0		

Serial Number: 207-MW
Tool Model: M&W

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

PDF SURVEY VERIFICATION

PRE-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	
3)	Short Space Long Space	cps cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	pu
3)	Short Space Long Space	cps cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	106	
Tool Model:	M&W	
Performed:	Fri Dec 3 15:10:46 2021	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.5500	GAPI/cps



MIDWEST WIRELINE

Company	Anchor Bay Petroleum LLC
Well	S&T #1
Field	
County	Rooks
State	Kansas