



DUAL INDUCTION LOG

MIDWEST WIRELINE

CompanyProspect Oil & Gas, Inc.			
Well	Brandenstein A-1		
Field	Chase-Silica		
County	Rice		
State	Kansas		
Company Prospect Oil & Gas, Inc.			
Well Brandenstein A-1			
Field Chase-Silica			
County Rice State Kansas			
Location:	API #: 15-159-22886-00-00		
N2 SW NW SE 1750 FSL & 2310 FEL SEC 11 TWP 19S RGE 10W			
Permanent Datum	Ground Level	Elevation	1739
Log Measured From	Kelly Bushing		
Drilling Measured From	Kelly Bushing		
		K.B.	Elevation
		D.F.	1747
		G.L.	1739
Date	7/9/2022		
Run Number	One		
Depth Driller	3350		
Depth Logger	3349		
Bottom Logged Interval	3348		
Top Log Interval	300		
Casing Driller	8.625 @ 309		
Casing Logger	308		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	5500		
Density / Viscosity	9.3	55	
pH / Fluid Loss	10.5	6.8	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.7 @ 76		
Rmf @ Meas. Temp	0.53 @ 76		
Rmc @ Meas. Temp	0.95 @ 76		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.49 @ 109		
Operating Rig Time	2 Hours		
Max Rec. Temp. F	109		
Equipment Number	P-24		
Location	Hays		
Recorded By	T. Martin		
Witnessed By	Brad Hutchinson		

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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.

Hwy 4 and Chase Blktp, 6.5 S to Rd H,
2 W, 1/2 S, W 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

Engineer: T. Martin
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Brad Hutchinson
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	40.33		GR-M&W (101)	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 (302-02)	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		DIL-M&W (507)	18.25	3.50	220.00	
CILD	8.33						
CILM	4.50						
SP	0.20						
Dataset: prospect_brandenstein a-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\prospect_brandenstein a-1.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 109	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 228	degF 90	Off	ft 3349

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



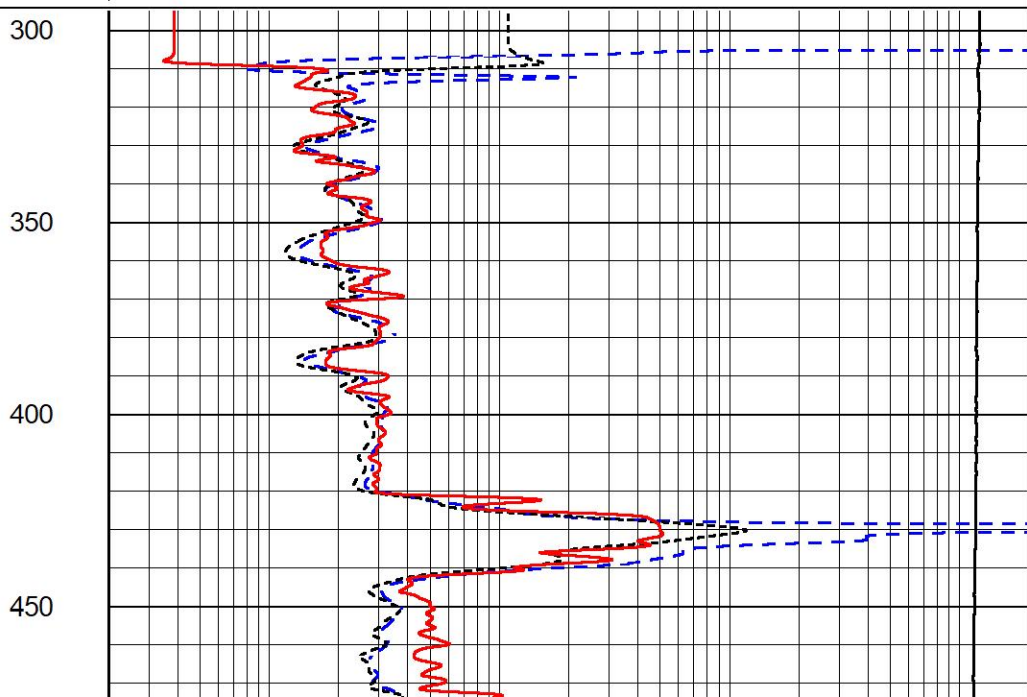
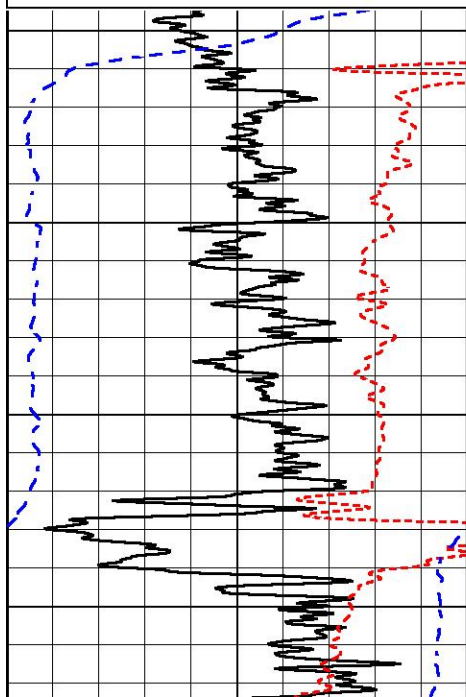
2" SCALE RESISTIVITY

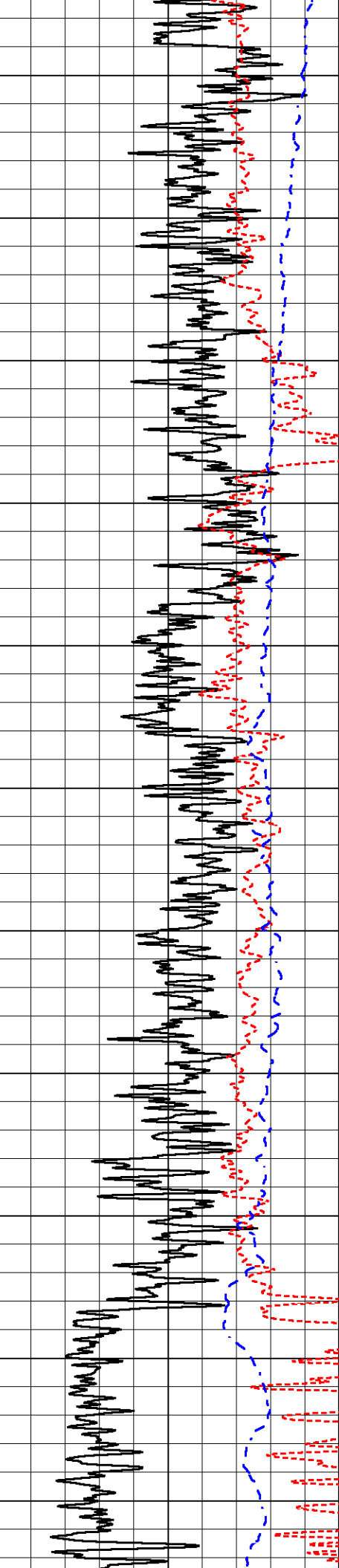
MAIN PASS

Database File prospect_brandenstein a-1.db
Dataset Pathname StkMI/pass3.2
Presentation Format _dil2in
Dataset Creation Sat Jul 09 18:04:38 2022
Charted by Depth in Feet scaled 1:600

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





500

550

600

650

700

750

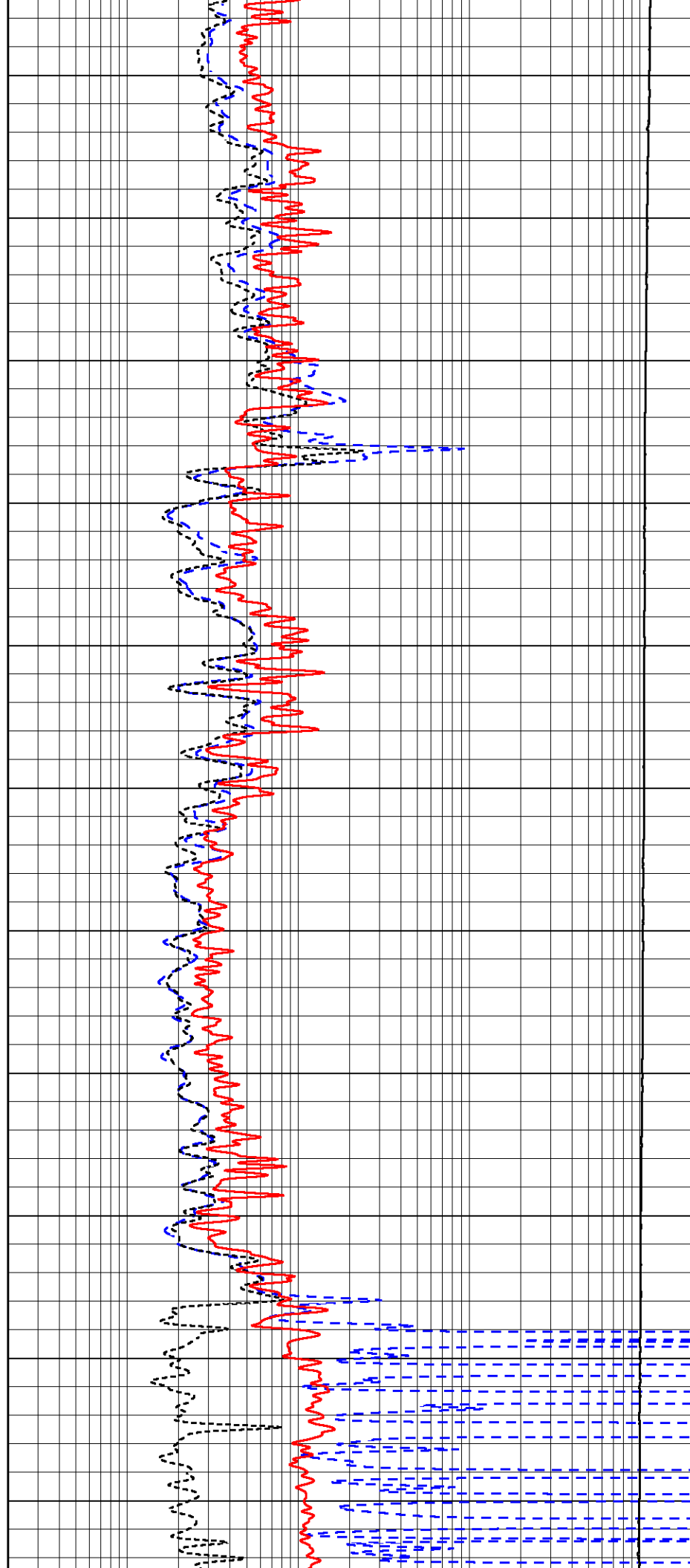
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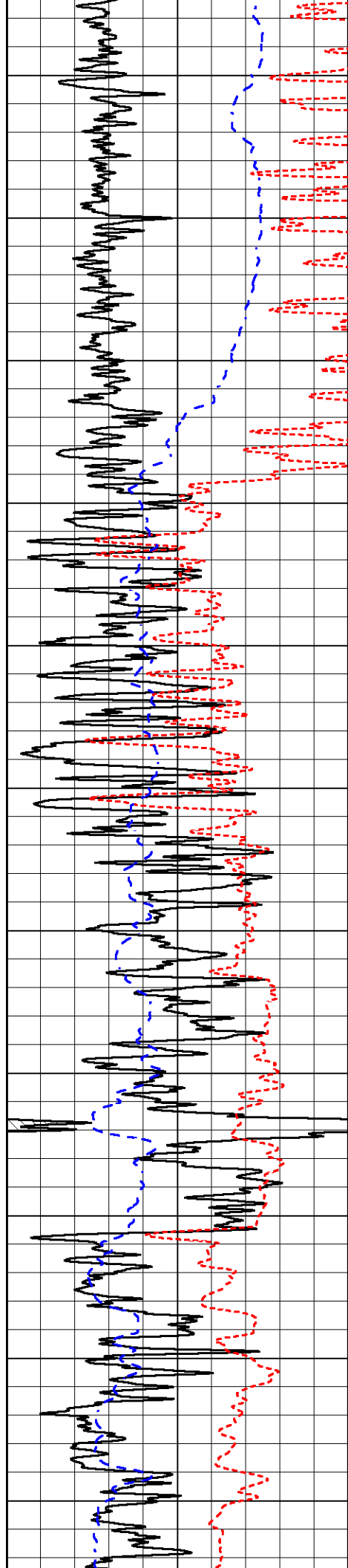
850

900

950

1000





1050

1100

1150

1200

1250

1300

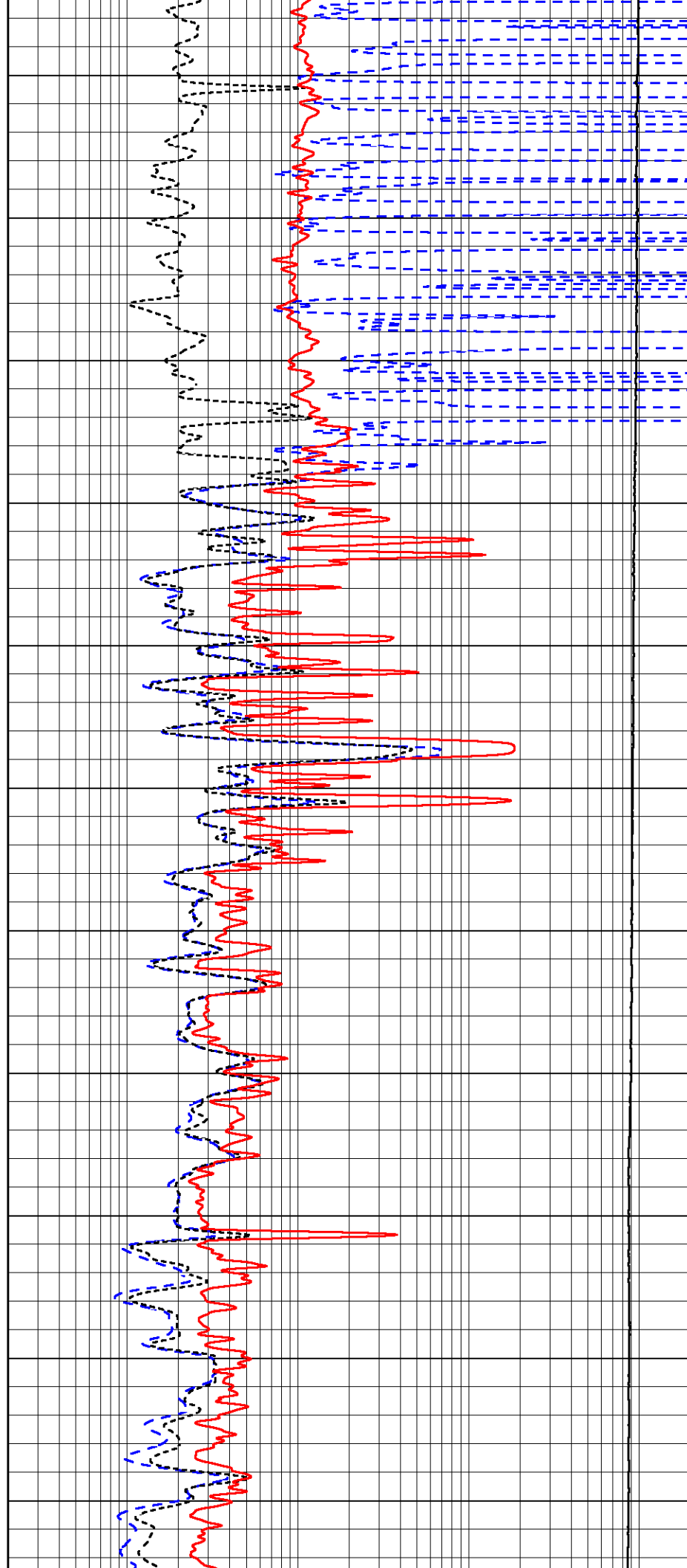
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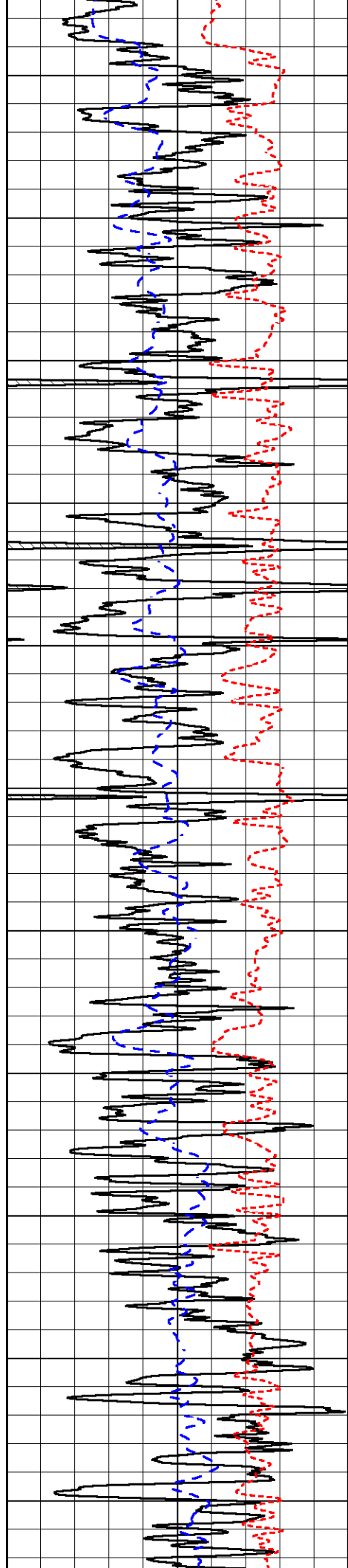
1400

1450

1500

1550





1600

1650

1700

1750

1800

1850

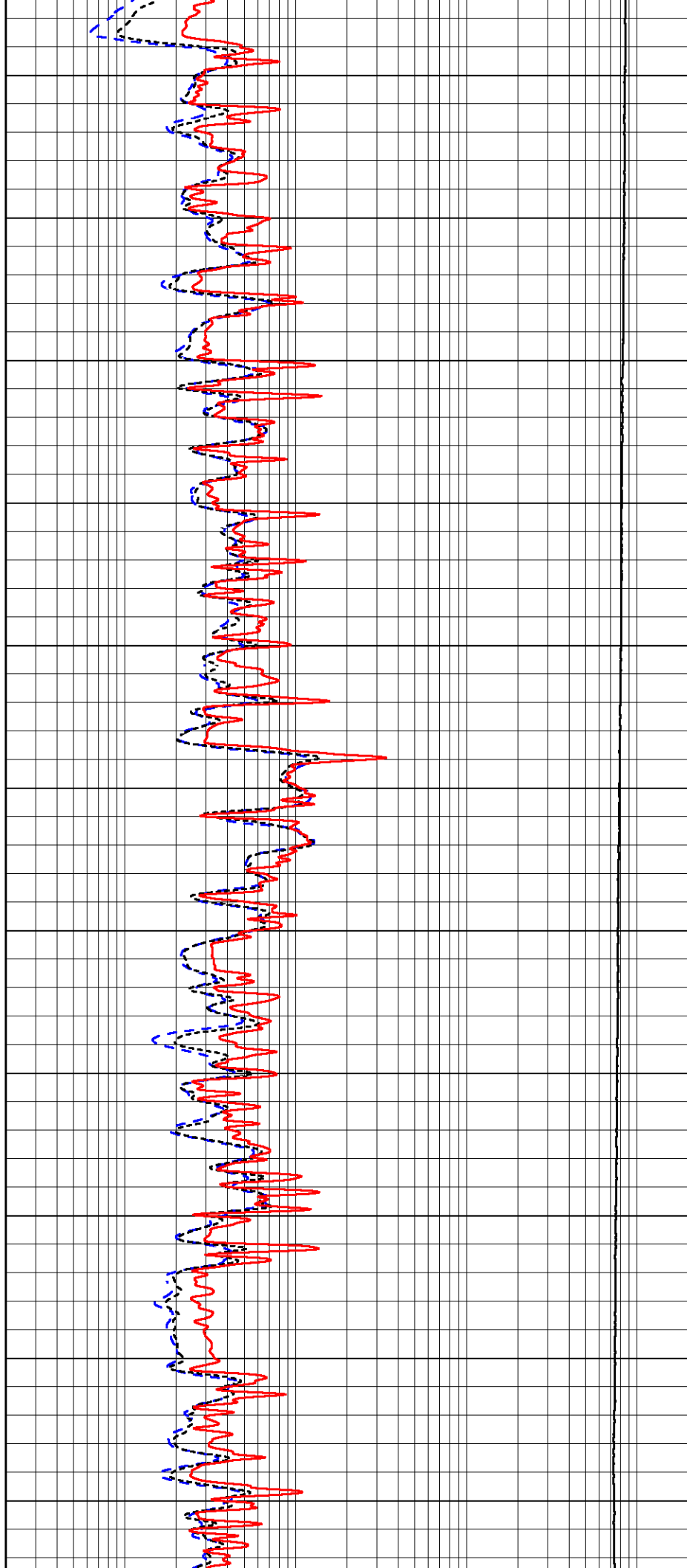
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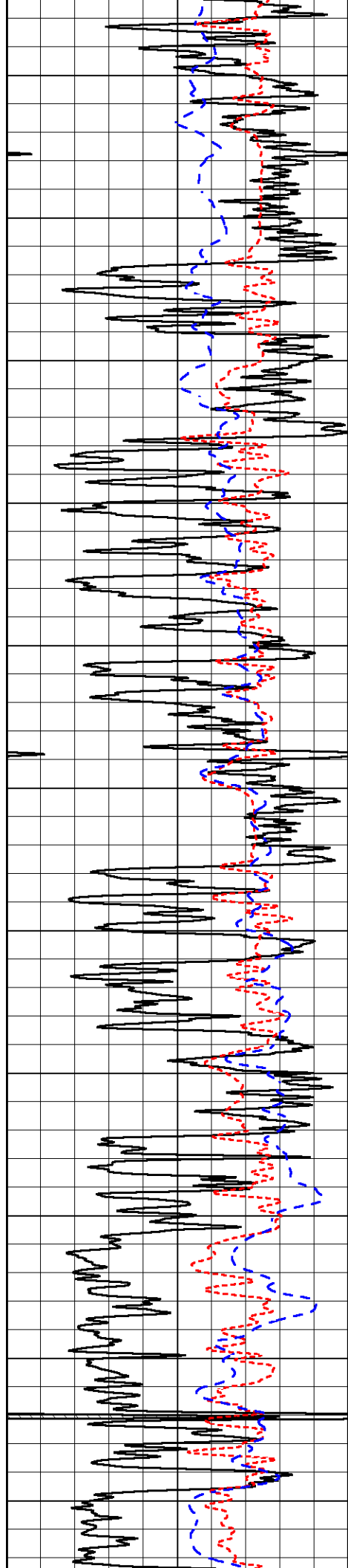
1950

2000

2050

2100





2150

2200

2250

2300

2350

2400

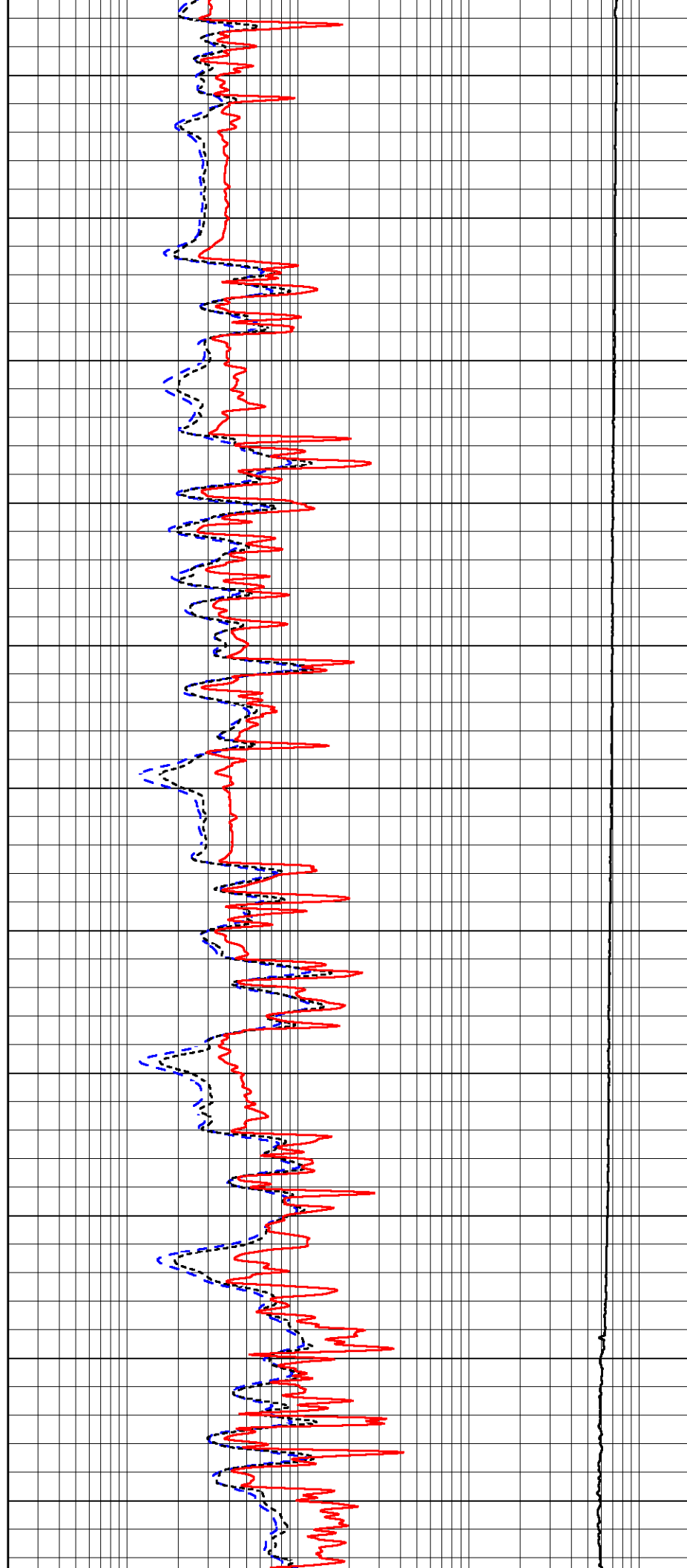
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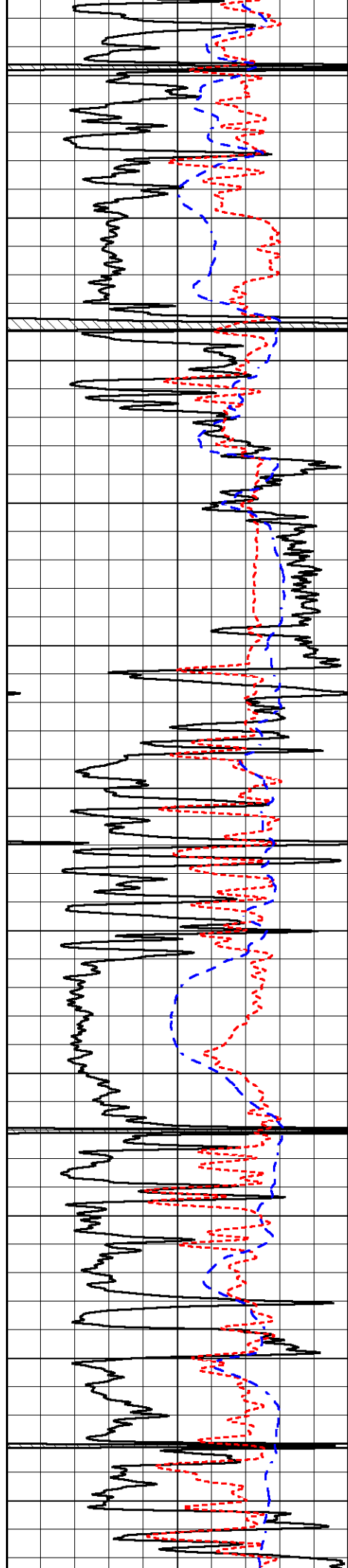
2500

2550

2600

2650





2700

2750

2800

2850

2900

2950

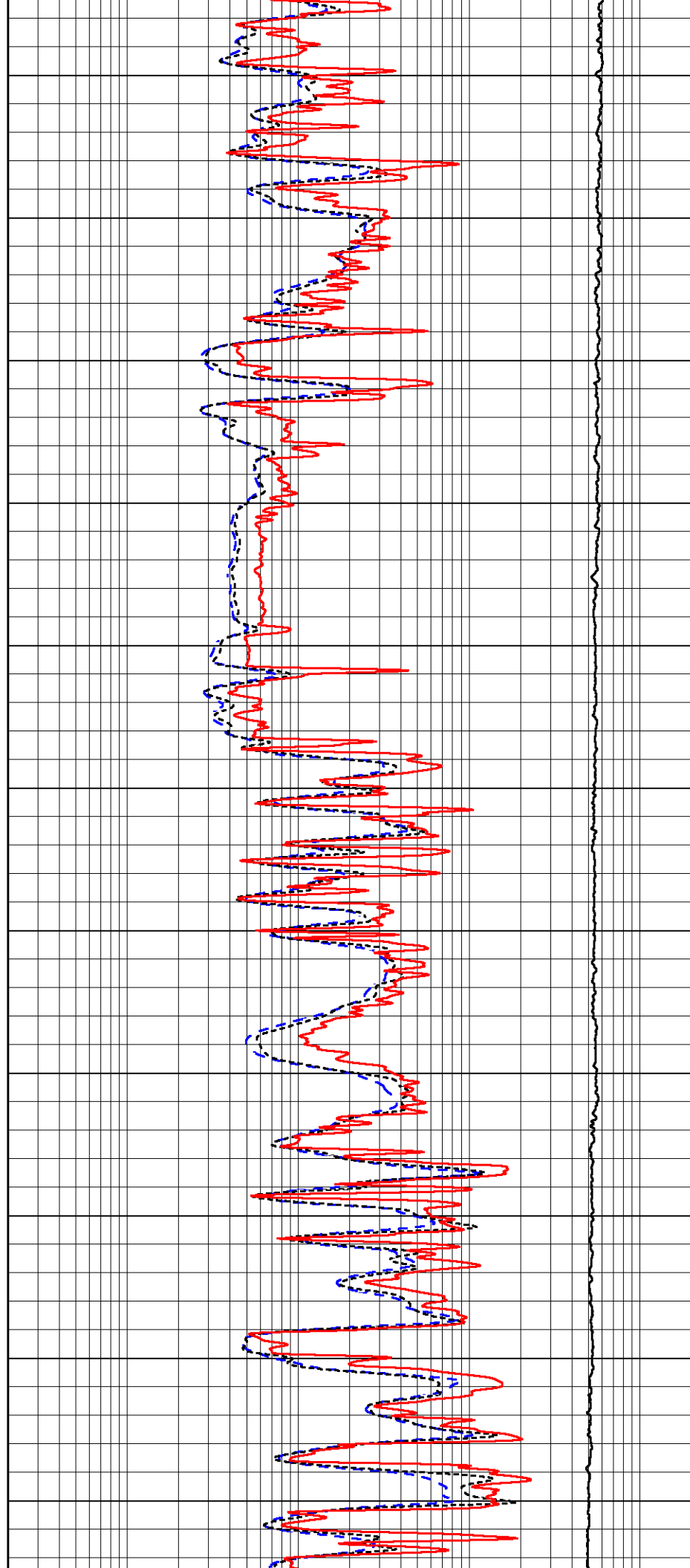
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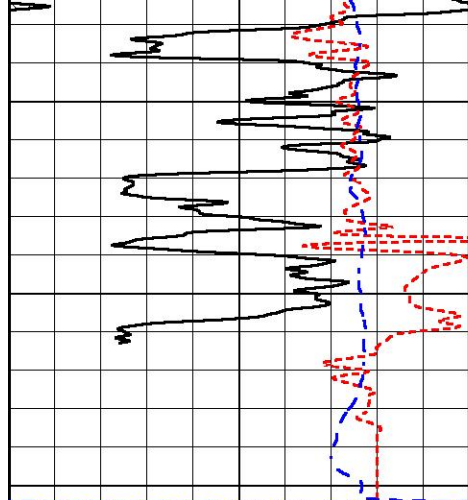
3050

3100

3150

3200



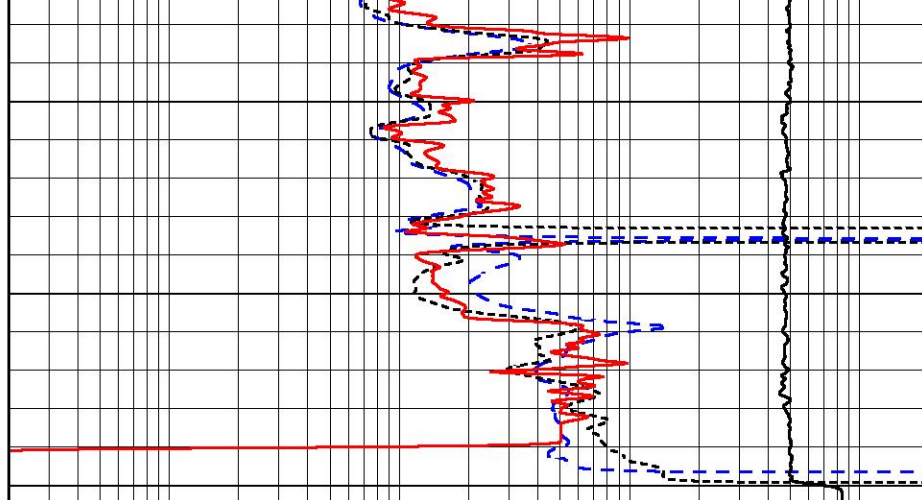


3250

3300

3350

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



MIDWEST WIRELINE

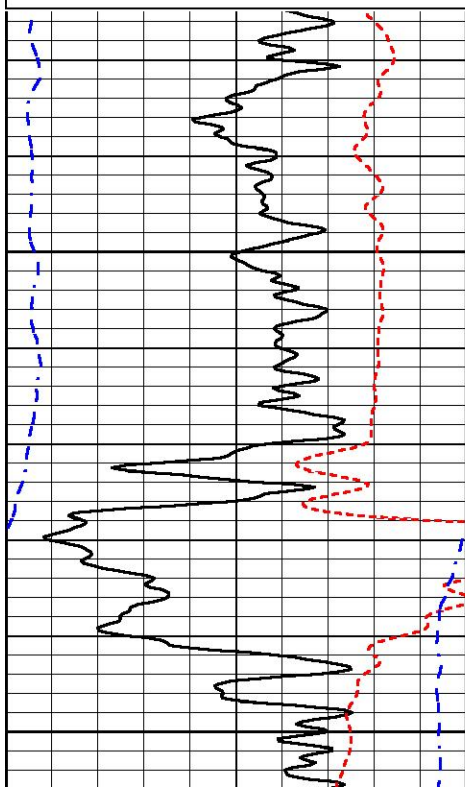
ANHYDRITE SECTION

MAIN PASS

Database File prospect_brandenstein a-1.db
 Dataset Pathname StkMI/pass3.4
 Presentation Format _dil
 Dataset Creation Sat Jul 09 18:02:31 2022
 Charted by Depth in Feet scaled 1:240

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-160	RXORT	40
-200	SP (mV)	0

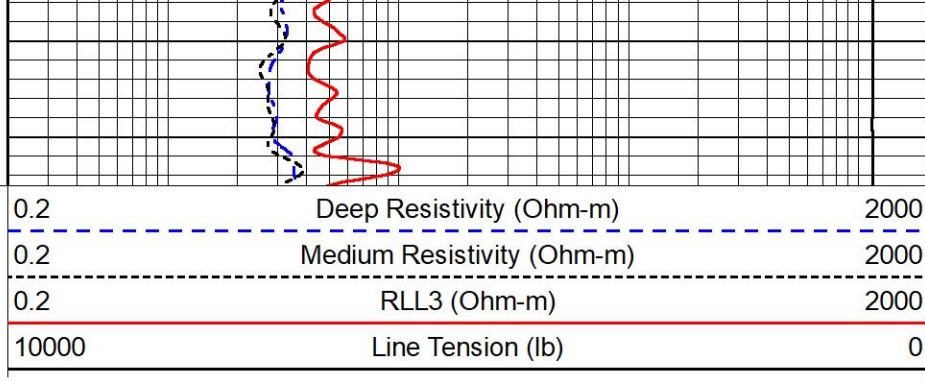
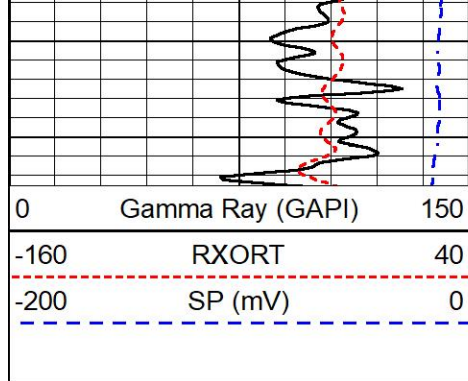
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0



400

450



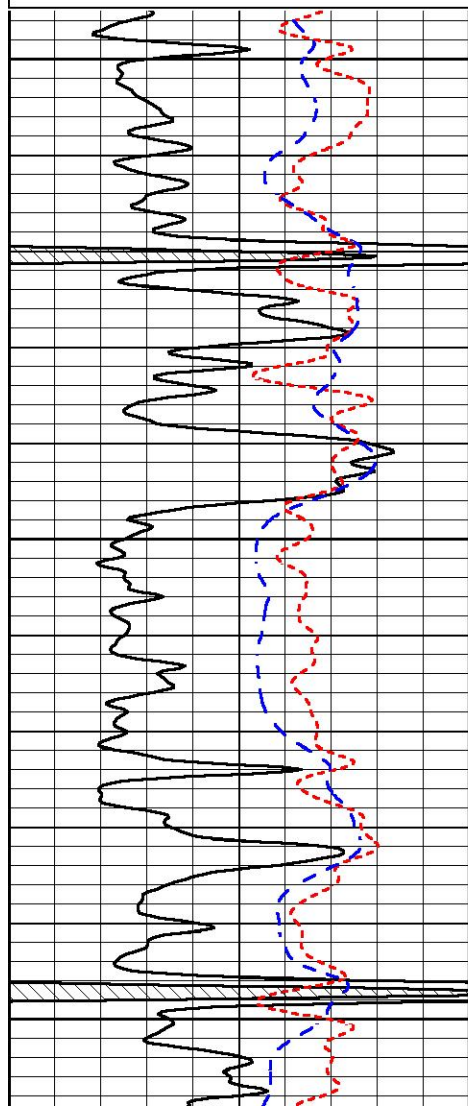
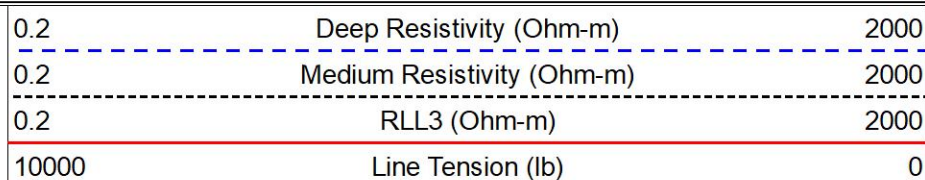
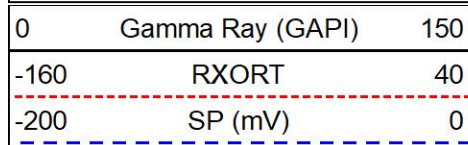


MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

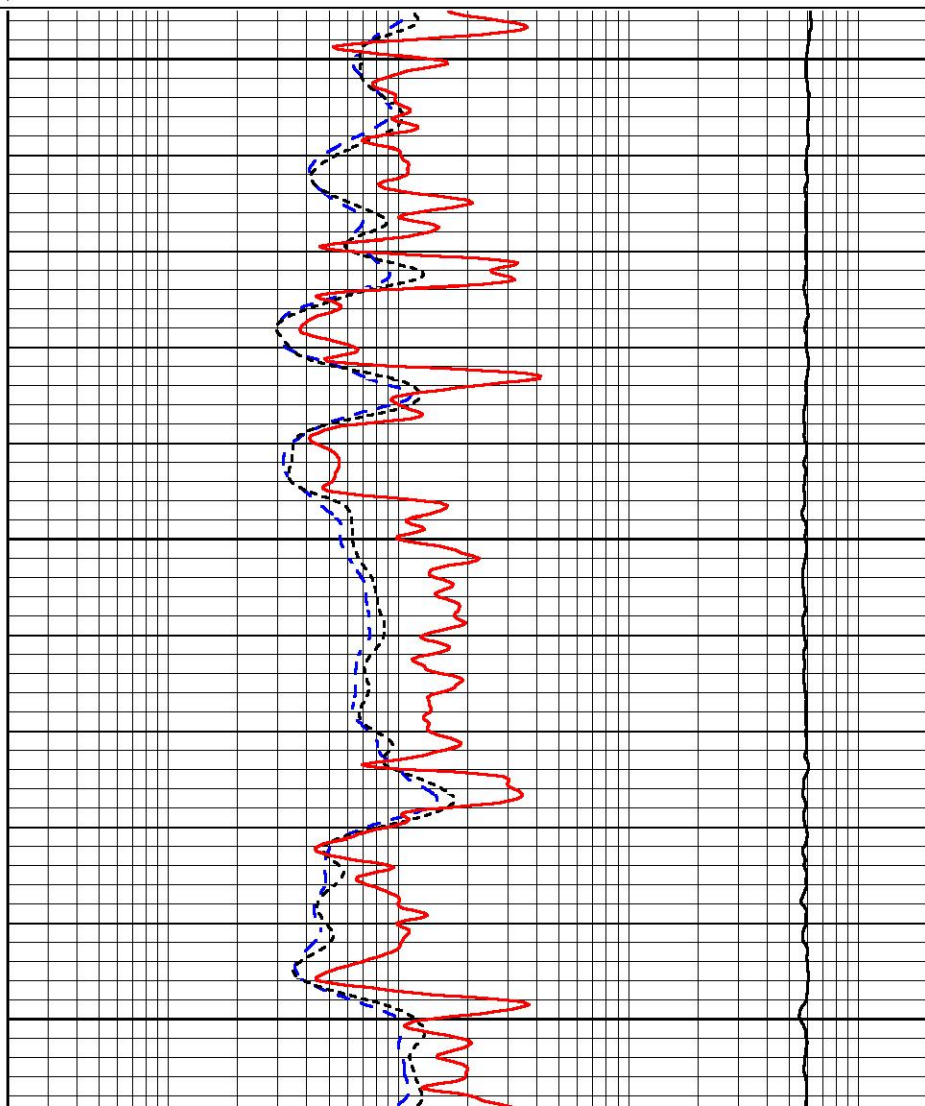
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 Presentation Format _dil
 Dataset Creation Sat Jul 09 18:05:05 2022
 Charted by Depth in Feet scaled 1:240

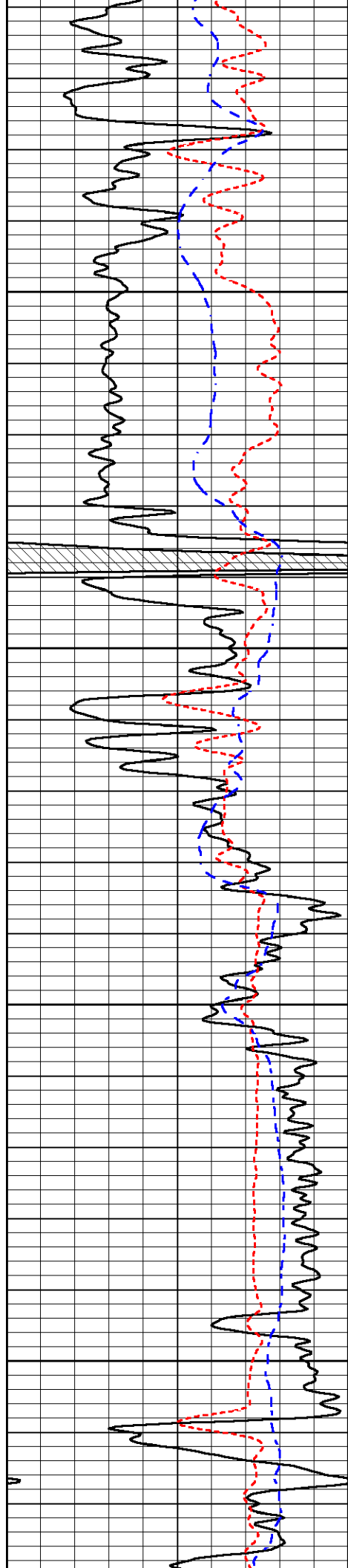


2600

2650

2700



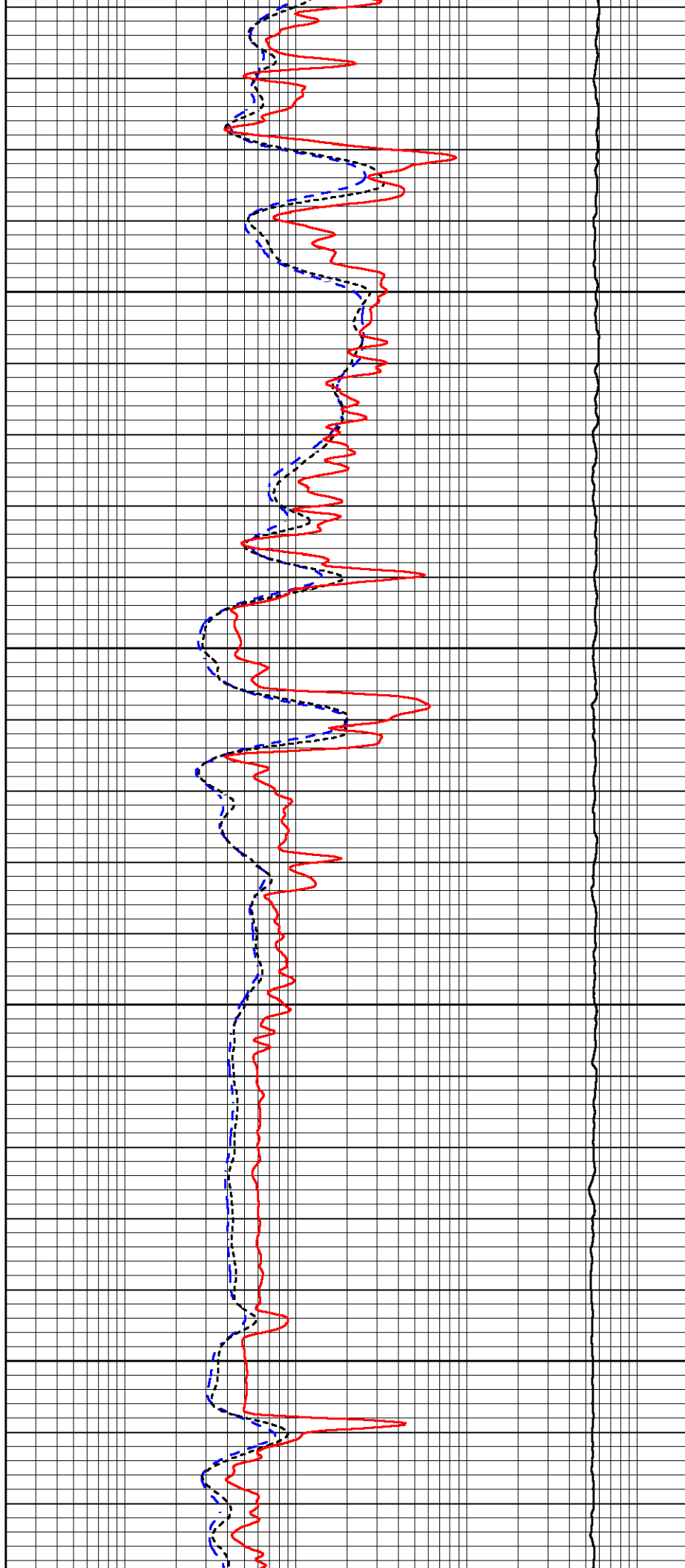


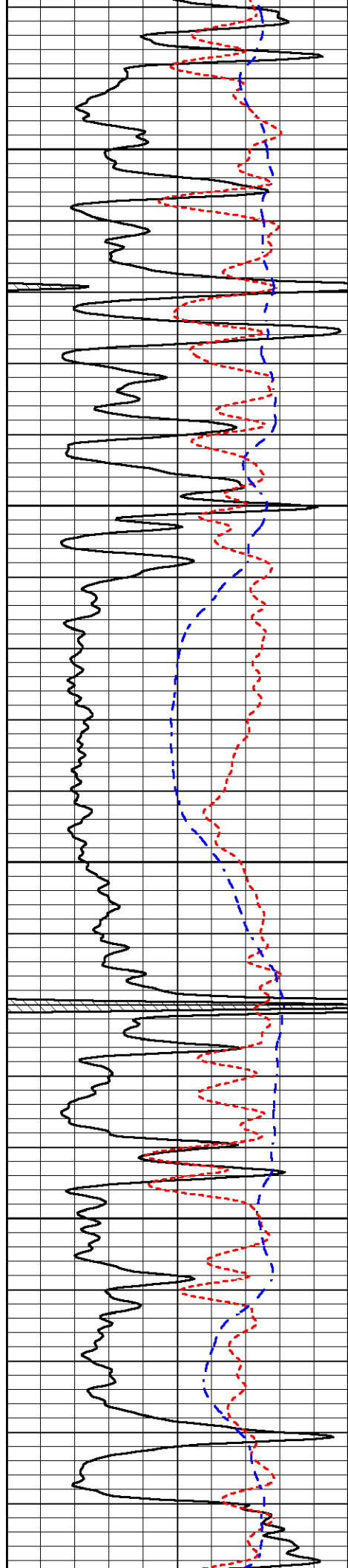
2750

2800

2850

2900



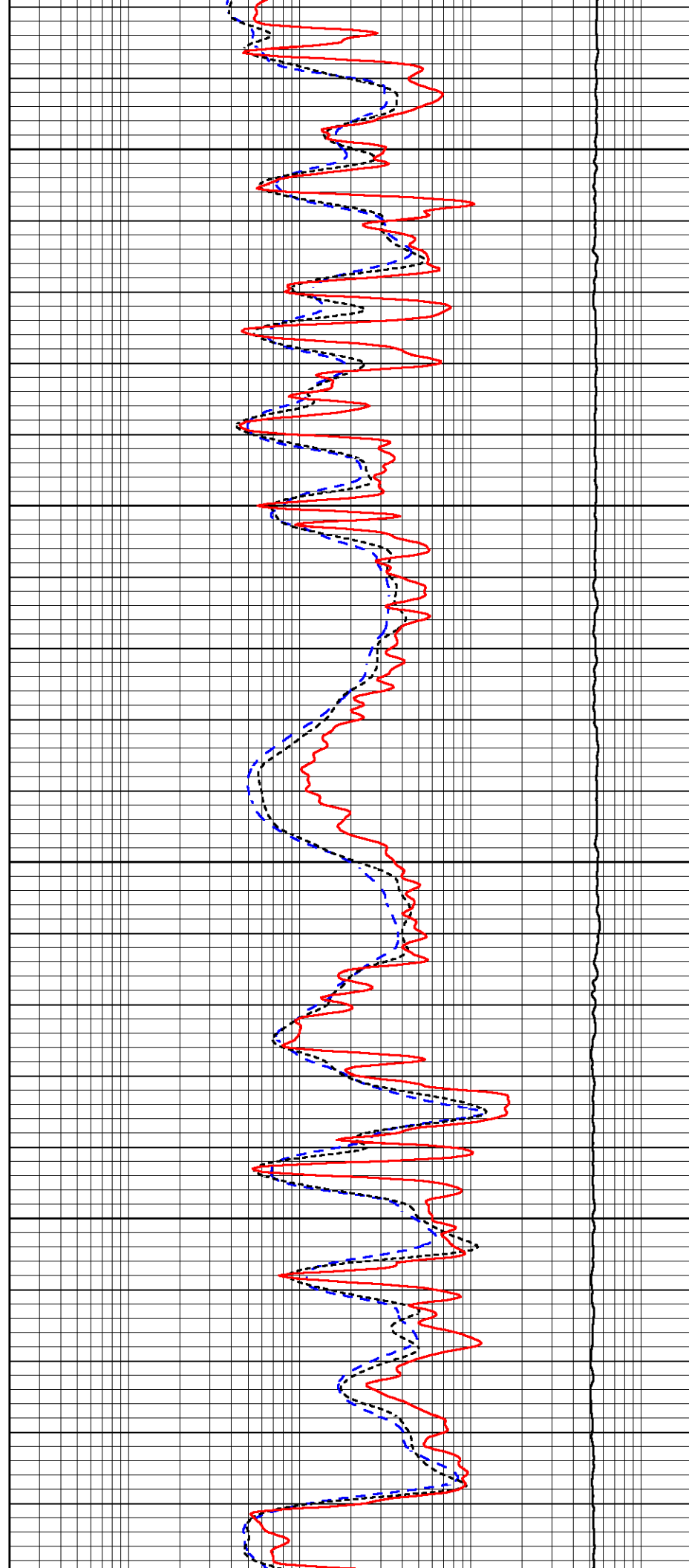


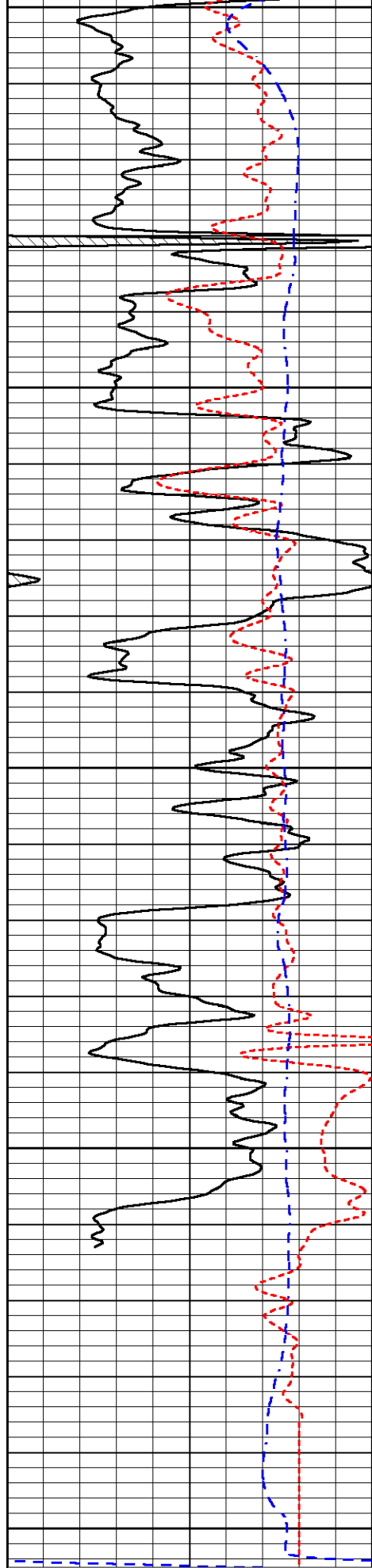
2950

3000

3050

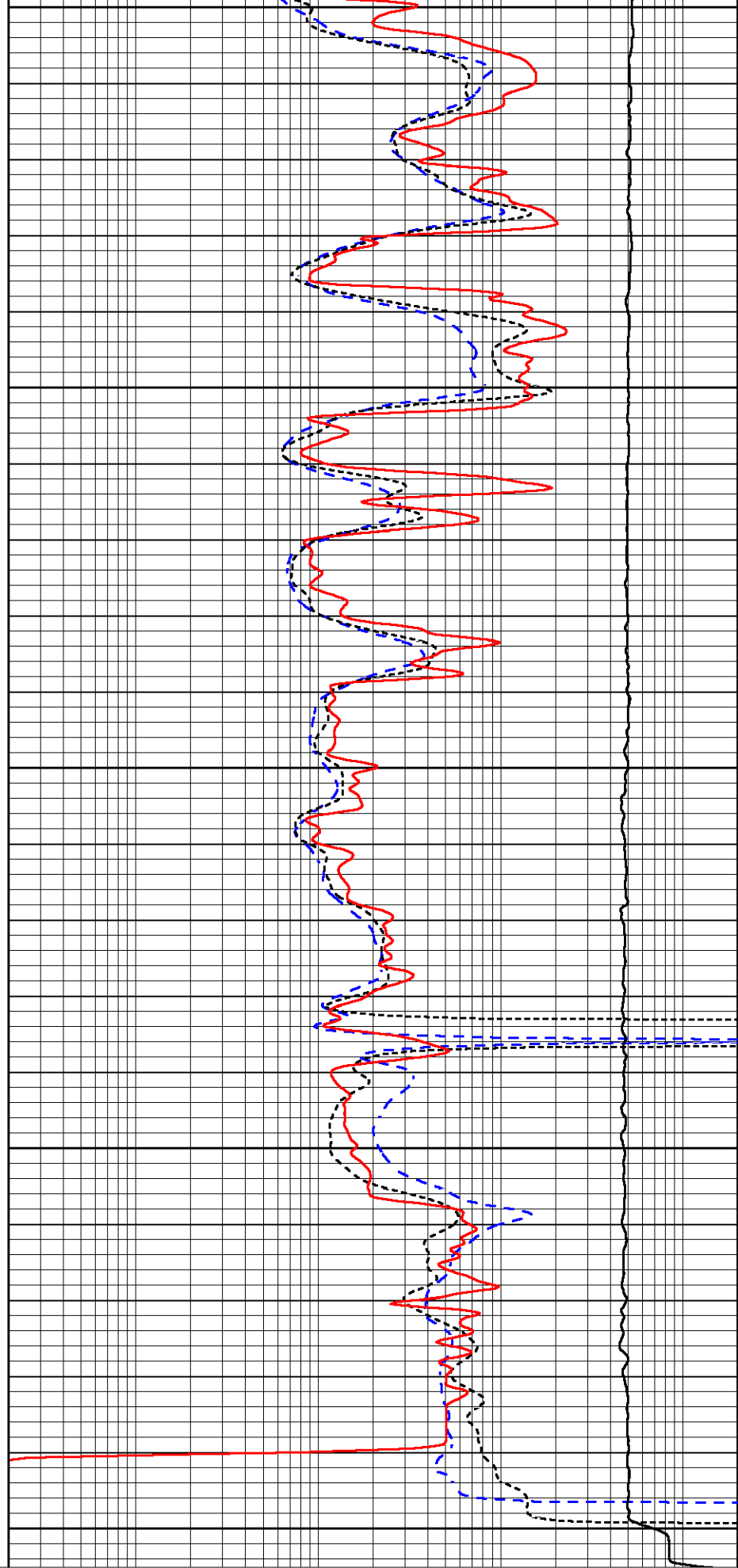
3100





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

3150
3200
3250
3300
3350



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000



MIDWEST WIRELINE

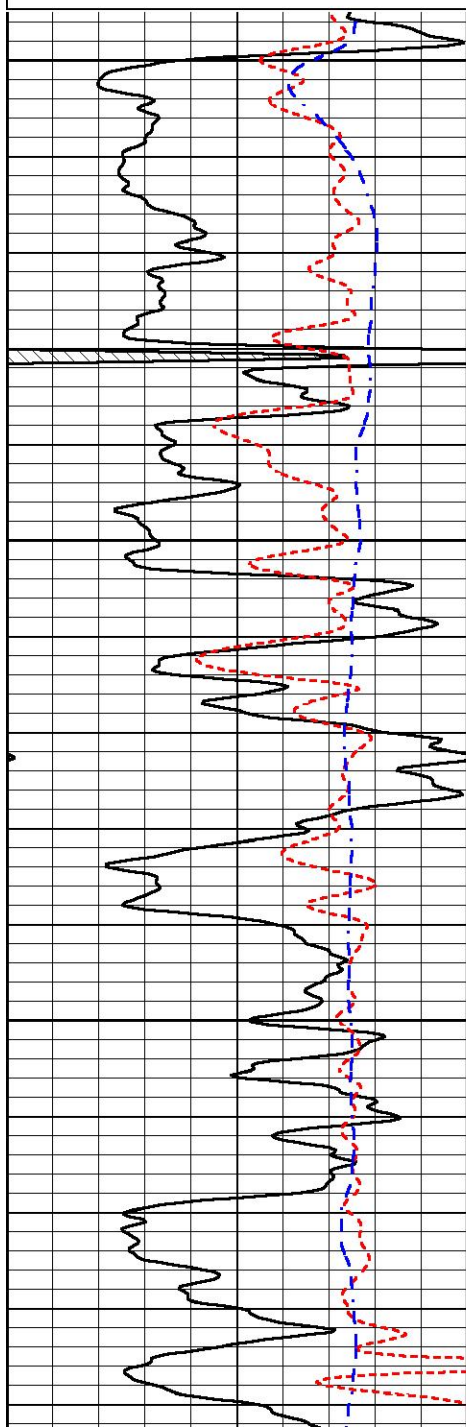
REPEAT SECTION

REPEAT PASS

Database File prospect_brandenstein a-1.db
Dataset Pathname StkMI/pass2.1
Presentation Format _dil
Dataset Creation Sat Jul 09 17:29:36 2022
Charted by Depth in Feet scaled 1:240

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

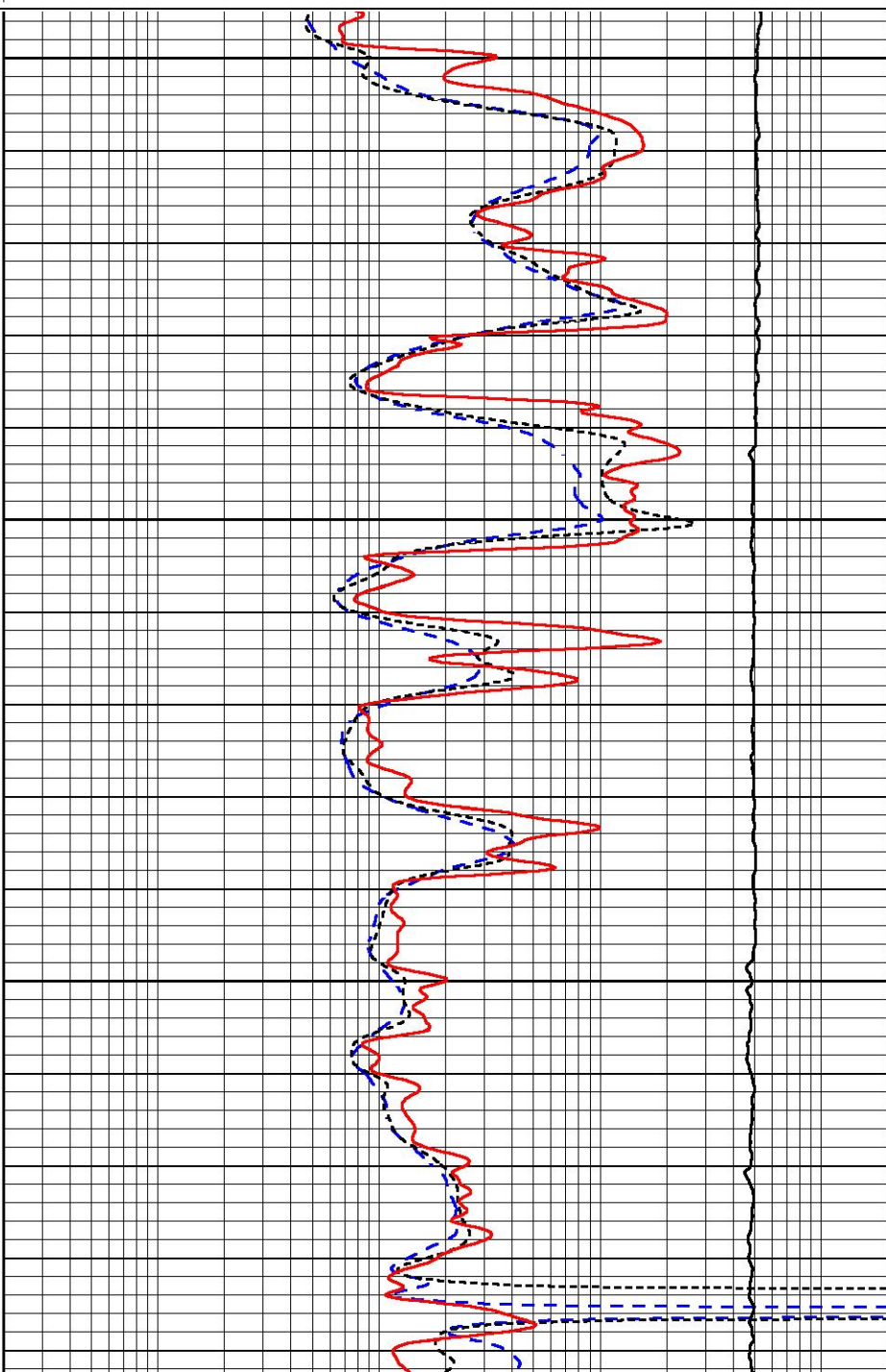
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

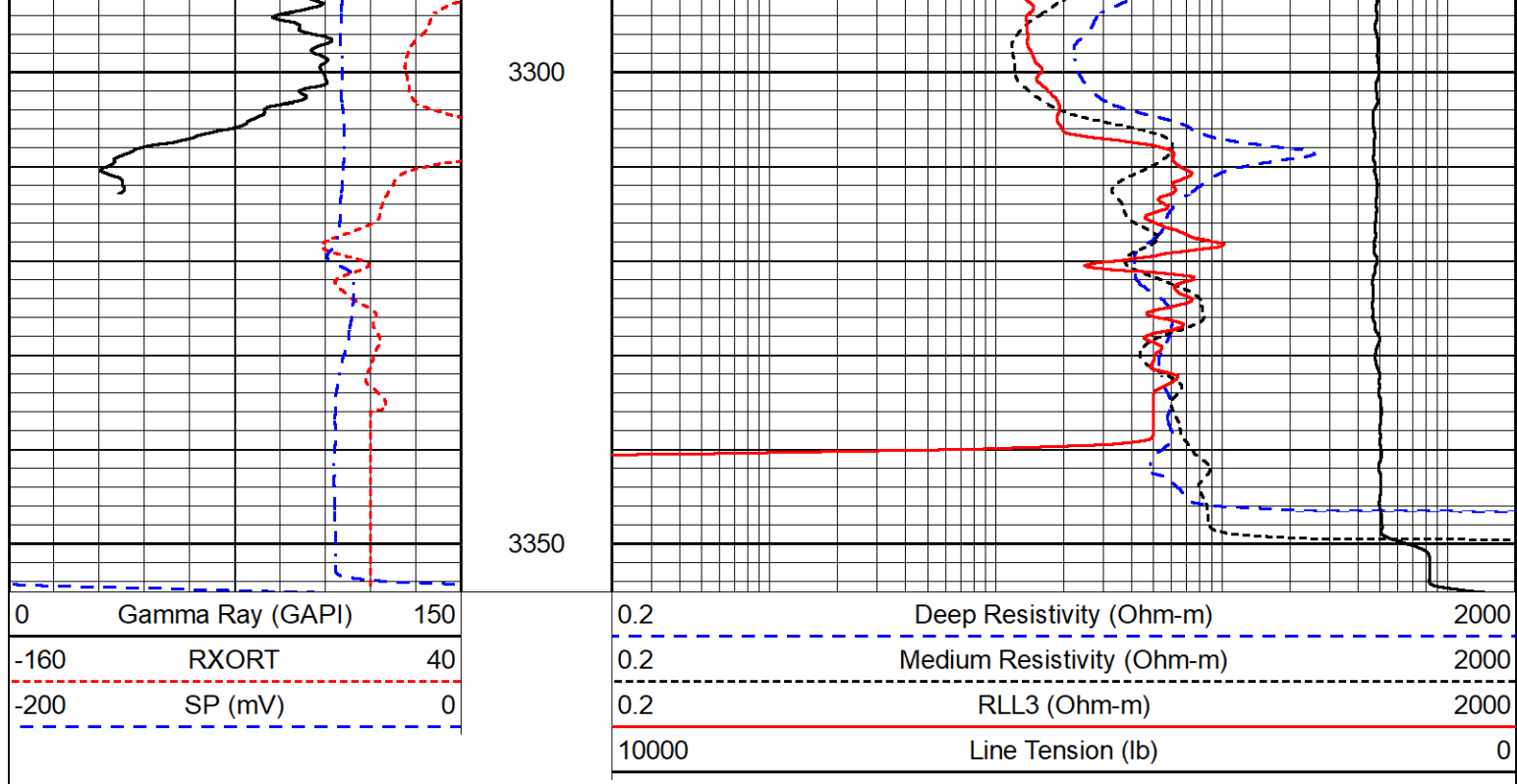


3150

3200

3250





Calibration Report							
Database File	prospect_brandenstein a-1.db						
Dataset Pathname	StkMI/pass3.1						
Dataset Creation	Sat Jul 09 18:05:05 2022						
Dual Induction Calibration Report							
Serial-Model:				507-M&W			
Surface Cal Performed:				Sat Jul 9 16:55:02 2022			

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4422.04	6163.44	cps
Aluminum	2.665	g/cc	835.14	3912.91	cps
Spine Angle = 74.75			Density/Spine Ratio = 0.527		
	Size		Reading		
Small Ring	8.00	in	0.53		
Large Ring	30.00	in	0.60		

Compensated Neutron Calibration Report

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

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

PRE-SURVEY VERIFICATION

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

POST-SURVEY VERIFICATION

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

Gamma Ray Calibration Report

Serial Number: 101
Tool Model: M&W
Performed: Mon Jan 24 19:14:46 2022

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps
Calibrator Reading: 637.0 cps

Sensitivity: 0.5500 GAPI/cps





Company	Prospect Oil & Gas, Inc.
Well	Brandenstein A-1
Field	Chase-Silica
County	Rice
State	Kansas