



DUAL INDUCTION LOG

MIDWEST WIRELINE

Company Blake Exploration, LLC		Company Blake Exploration, LLC	
Well	Roberts #2	Well	Roberts #2
Field	LeSage West	Field	LeSage West
County	Graham	County	Graham
State	Kansas	State	Kansas
Location: API #: 15-065-24316-0000		Other Services	
N2 S2 NW/NE 800 FNL & 3300FWL		CNL/CDL MEL	
Permanent Datum	Ground Level	Elevation	2112
Log Measured From	Kelly Bushing	K.B.	2120
Drilling Measured From	Kelly Bushing	D.F.	
		G.L.	2112
Date	07/02/2024		
Run Number	One		
Depth Driller	3623		
Depth Logger	3620		
Bottom Logged Interval	3619		
Top Log Interval			
Casing Driller	8.625 @ 222		
Casing Logger			
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2200		
Density / Viscosity	9.2 58		
pH / Fluid Loss	10.5 7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.64 @ 85		
Rmt @ Meas. Temp	0.64 @ 85		
Rmc @ Meas. Temp	1.15 @ 85		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.64 @ 112		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	112		
Equipment Number	P-108		
Location	HAYS		
Recorded By	Justin Trout		
Witnessed By	Mike Davignon		

<<< Fold Here >>>

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.

Nicodemus, Ks
West to 390th, 5 1/2 North
1/2 East South 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: Justin Trout
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Mike Davignon
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

BOREID in 7.875	BOTTEMP degF 112	CASEOD in 4.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 0.75	SNDERRM mmho/m -3.5	SPSHIFT mV 417	SRFTEMP degF 80	SZCOR Off	TDEPTH ft 3620		

Variable Description

BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
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



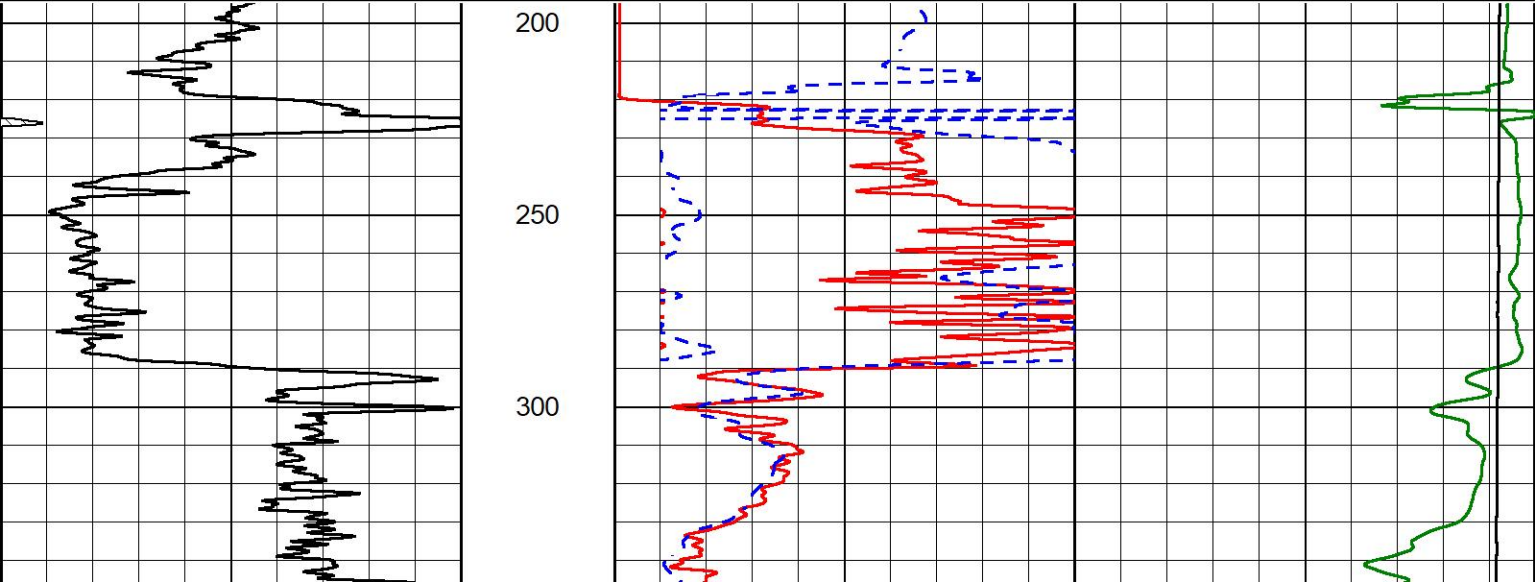
2" SCALE RESISTIVITY

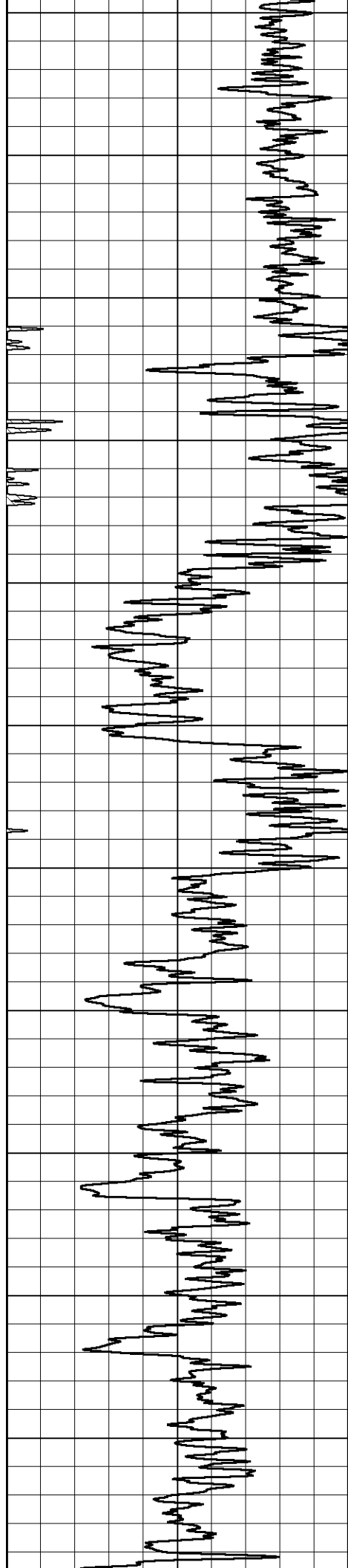
MAIN PASS

Database File
Dataset Pathname
Presentation Format
Dataset Creation
Charted by

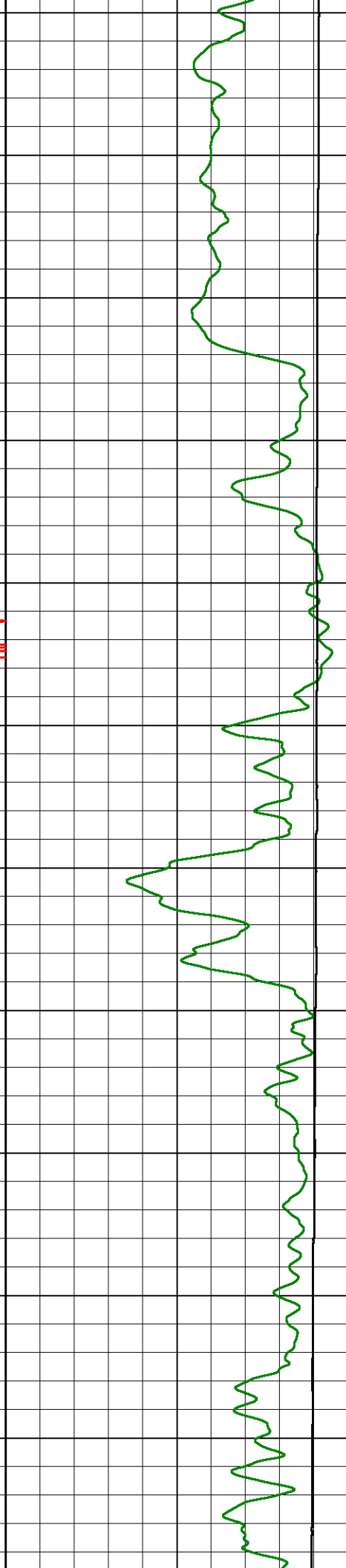
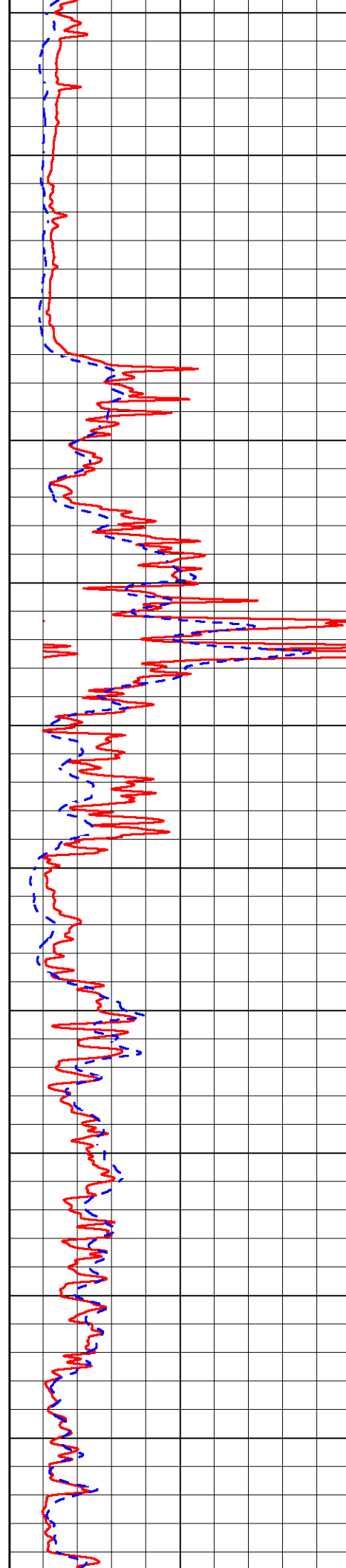
blake exploration llc_roberts #2.db
STKML/pass3.3
_dil2in
Tue Jul 02 02:46:36 2024
Depth in Feet scaled 1:600

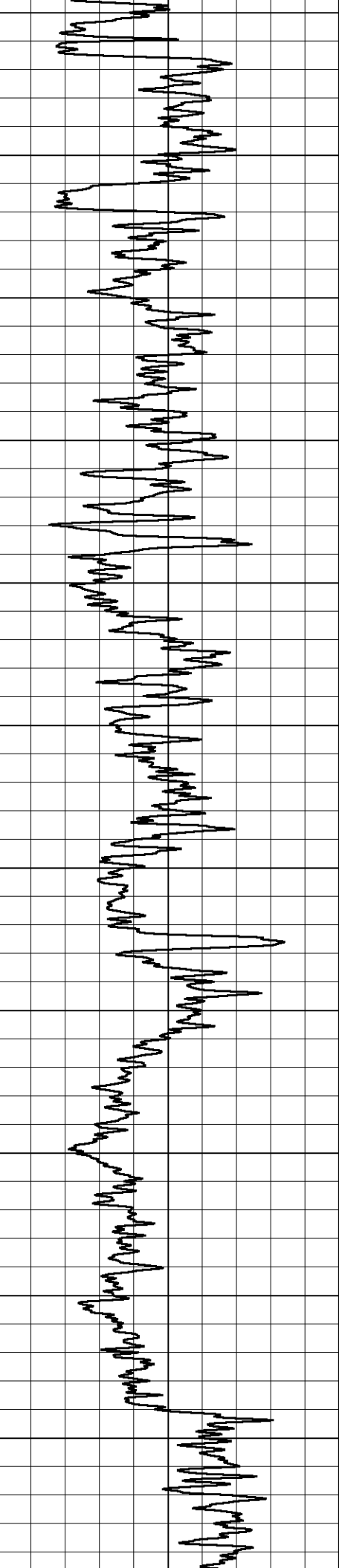
0	Gamma Ray (GAPI)	150	1000	Conductivity (mmho/m)	0
			15000	Line Tension (lb)	0
0	Shallow Resistivity (Ohm-m)	50			
0	Deep Resistivity (Ohm-m)	50			
	Shallow Resistivity				
50	(Ohm-m)	200			
50	Deep Resistivity (Ohm-m)	200			



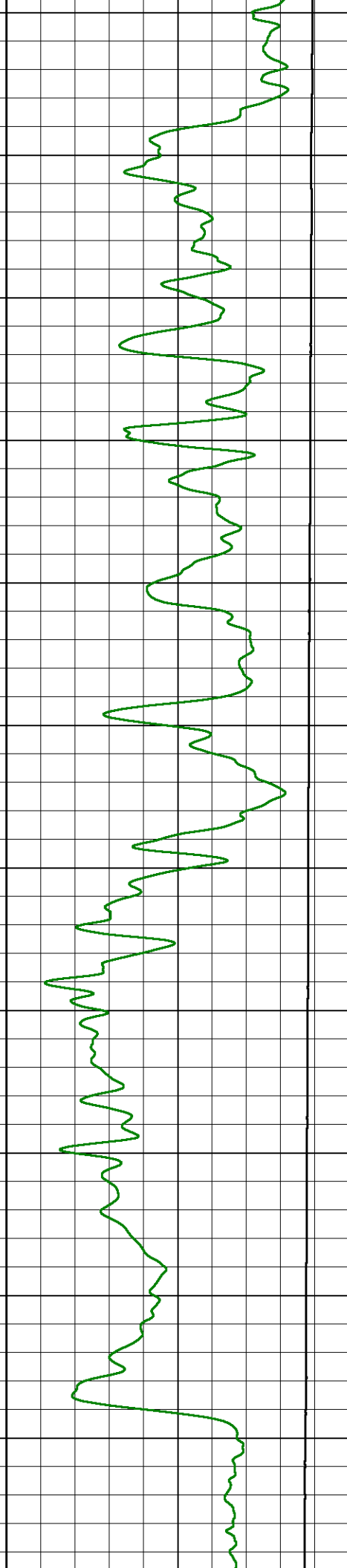
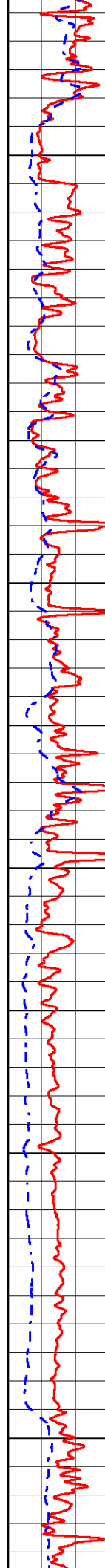


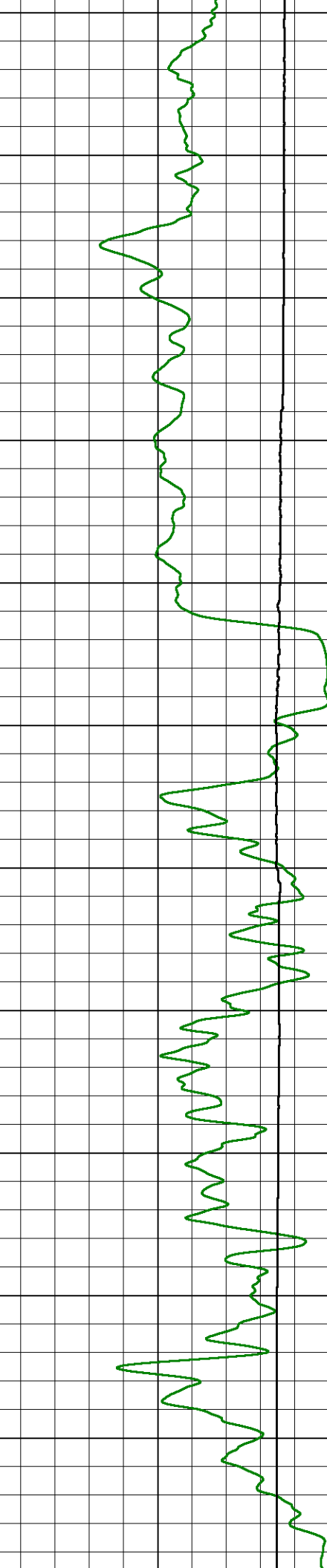
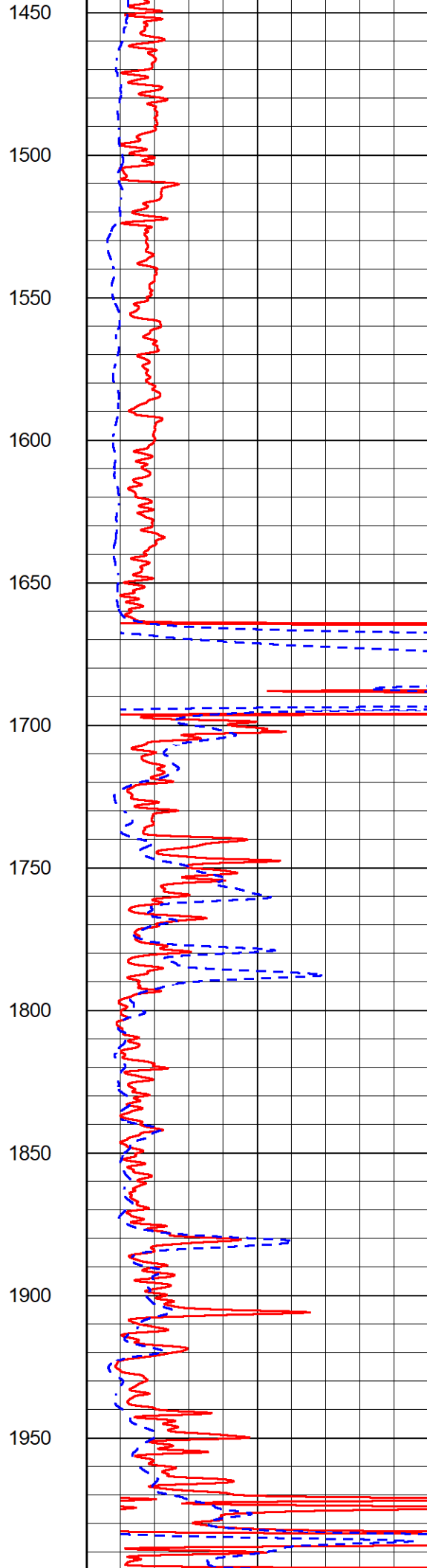
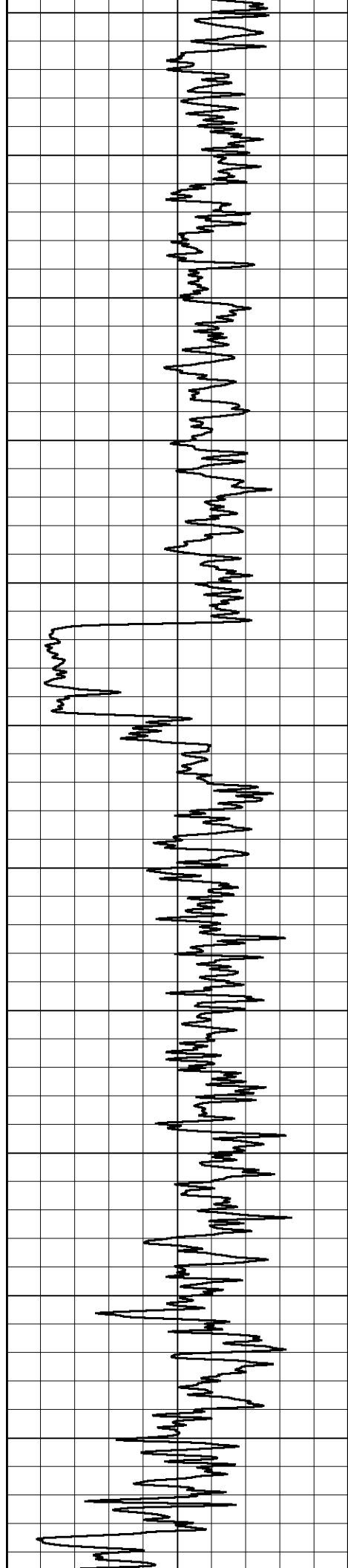
350
400
450
500
550
600
650
700
750
800
850

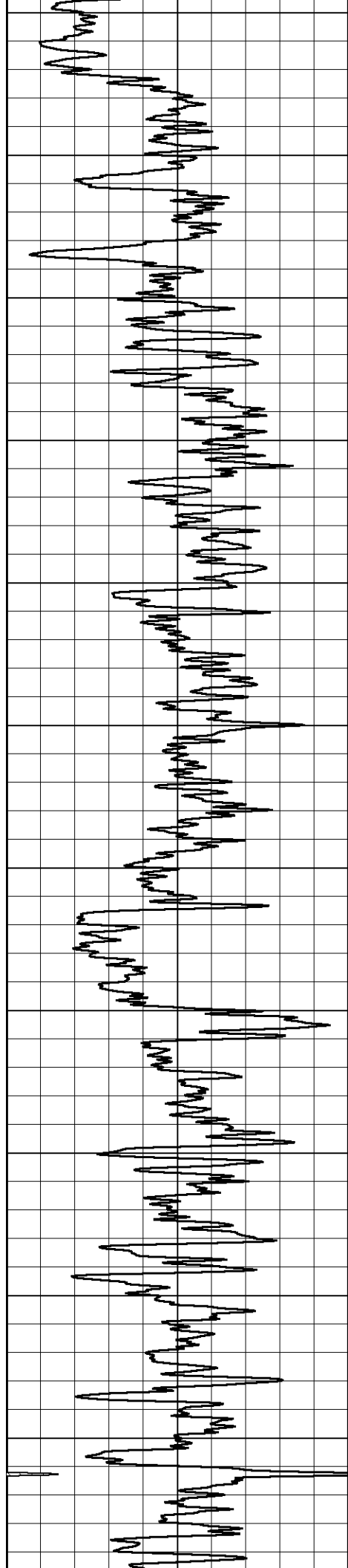




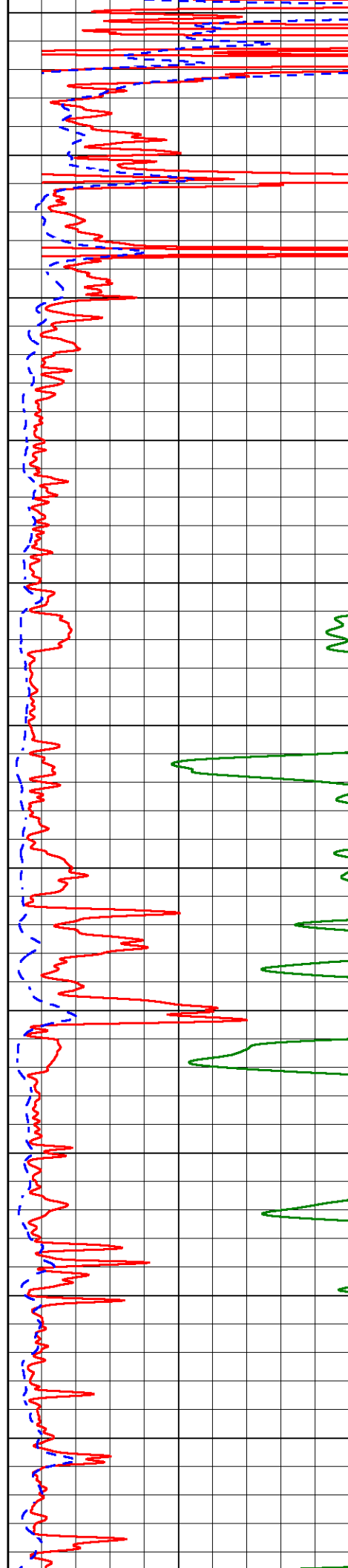
900
950
1000
1050
1100
1150
1200
1250
1300
1350
1400

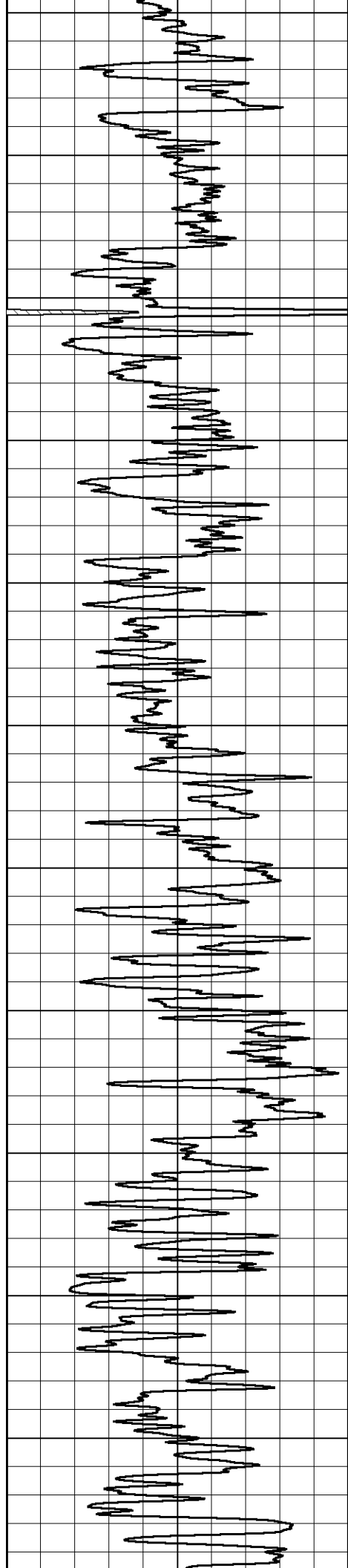




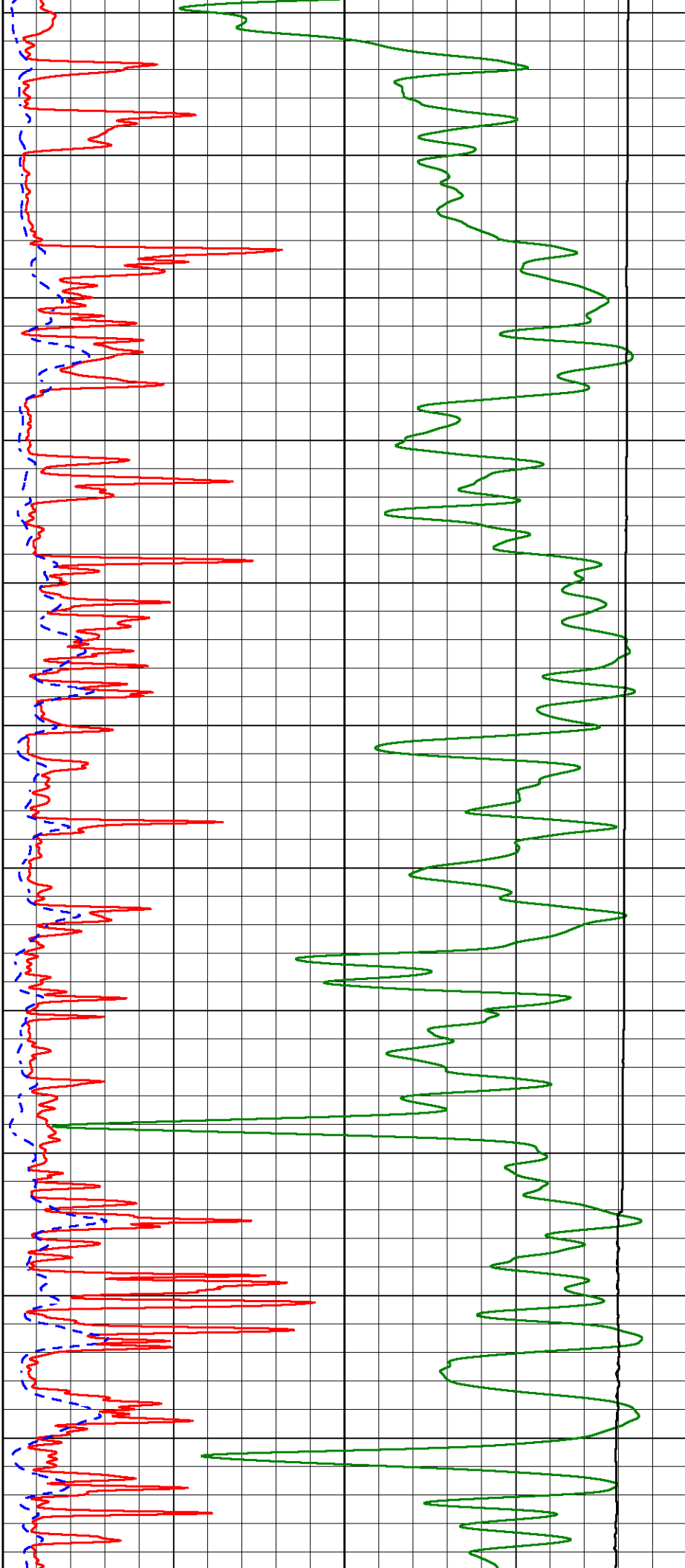


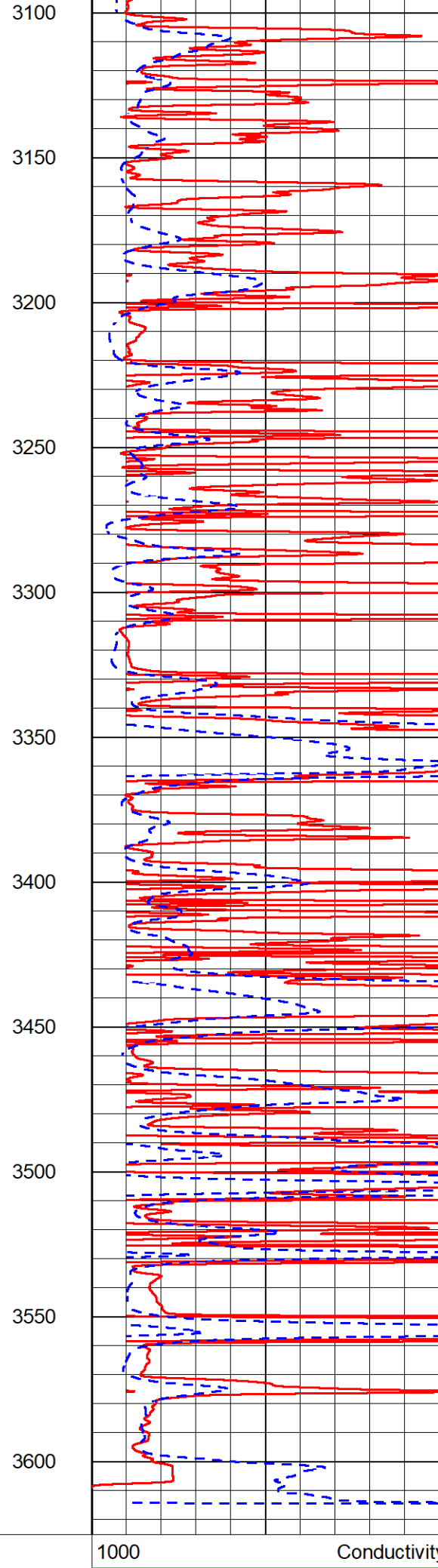
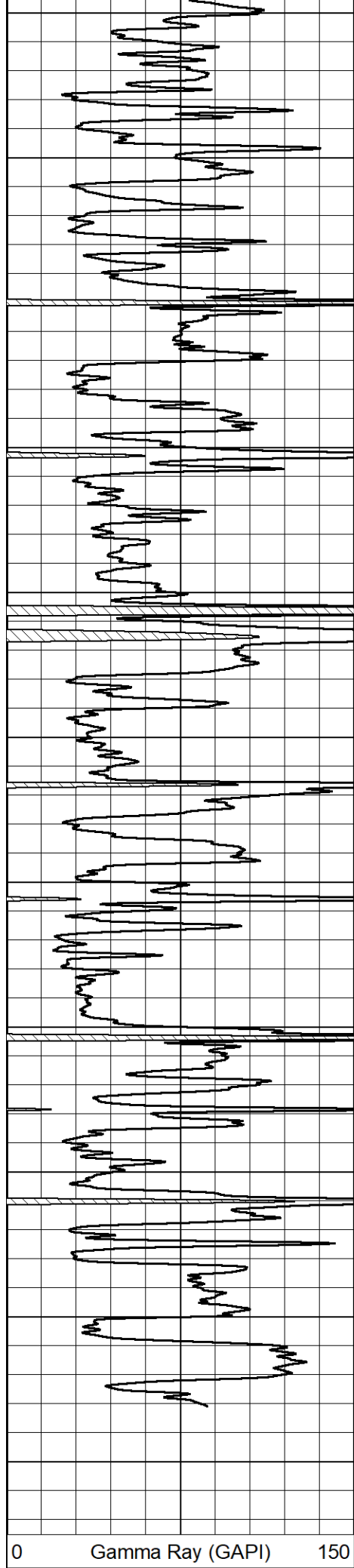
2000
2050
2100
2150
2200
2250
2300
2350
2400
2450
2500





2550
2600
2650
2700
2750
2800
2850
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



ANHYDRITE SECTION MAIN PASS

Database File

blake exploration llc_roberts #2.db

Dataset Pathname

STKML/pass3.4

Presentation Format

_dil

Dataset Creation

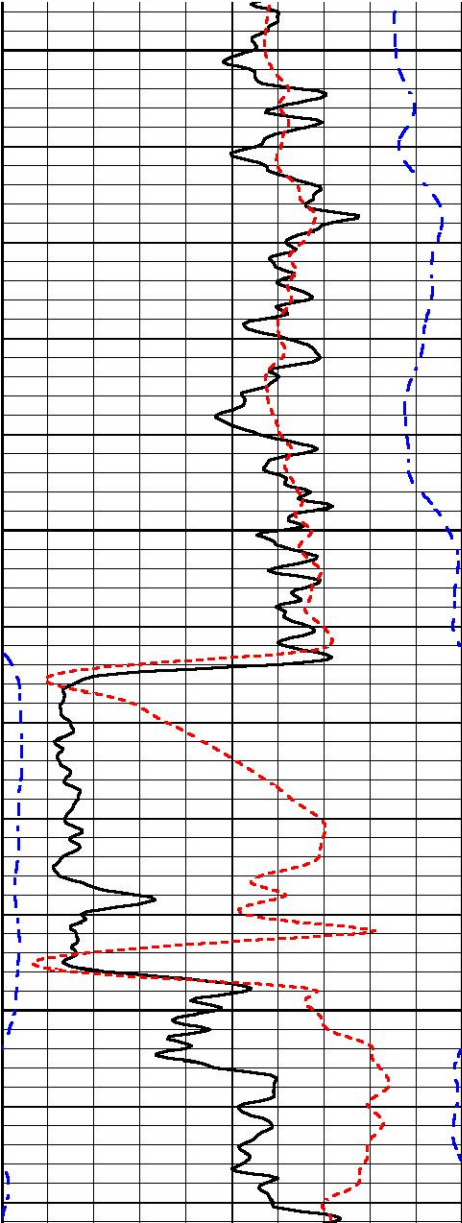
Tue Jul 02 02:32:46 2024

Charted by

Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
50	RXORT	250
-200	SP (mV)	0

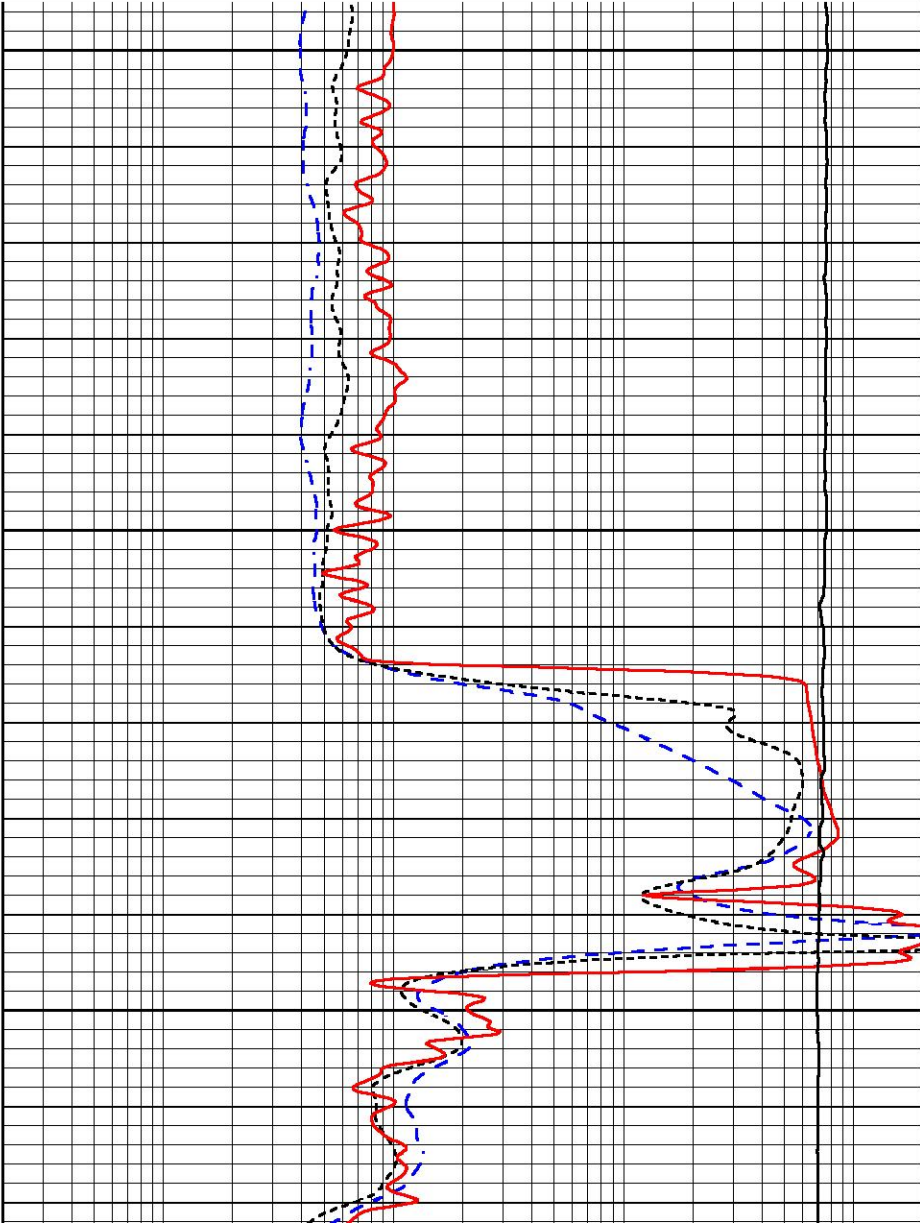
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

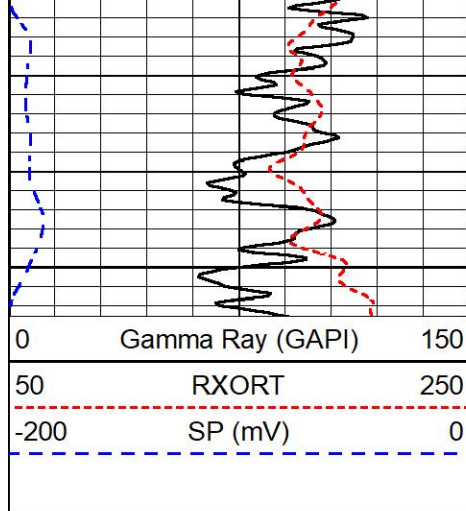


1600

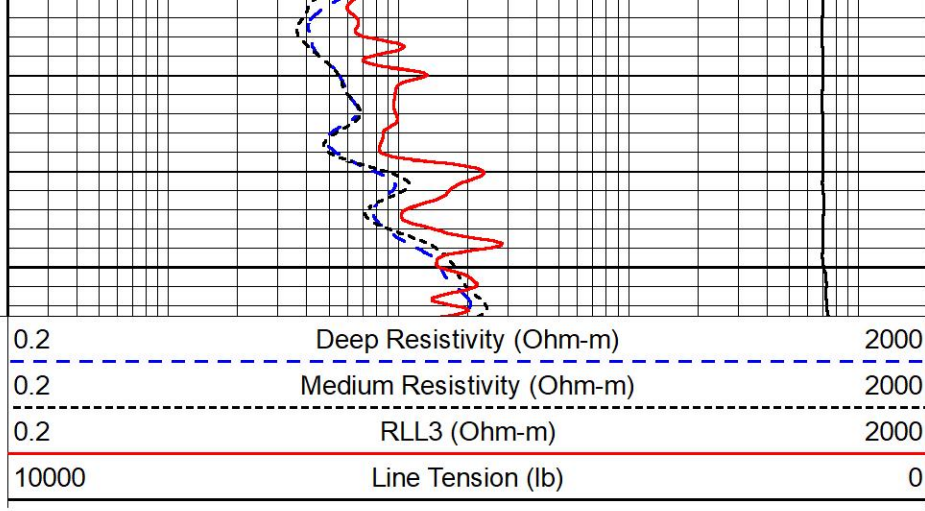
1650

1700





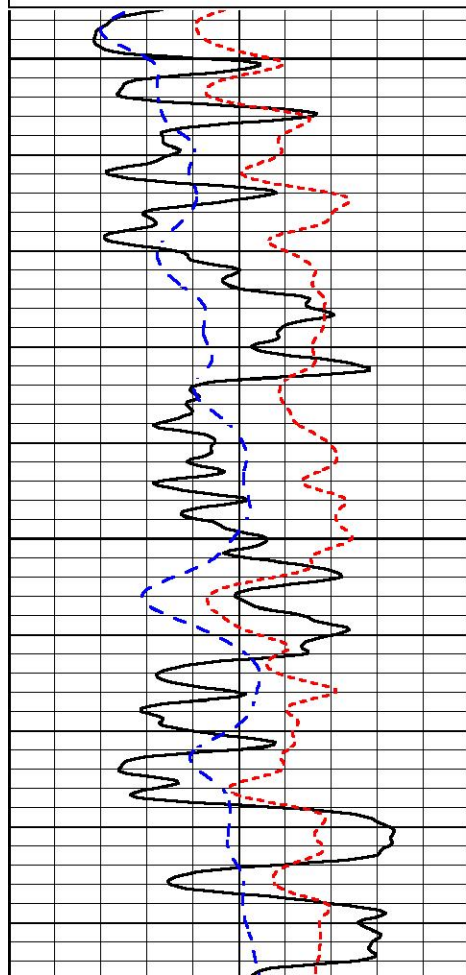
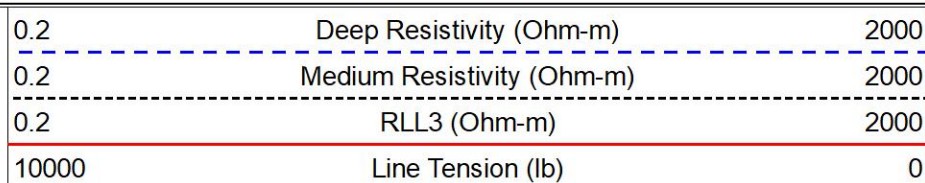
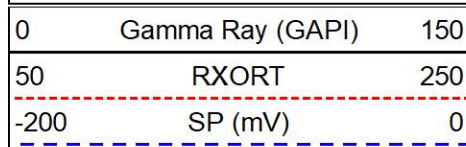
1750



DETAIL SECTION

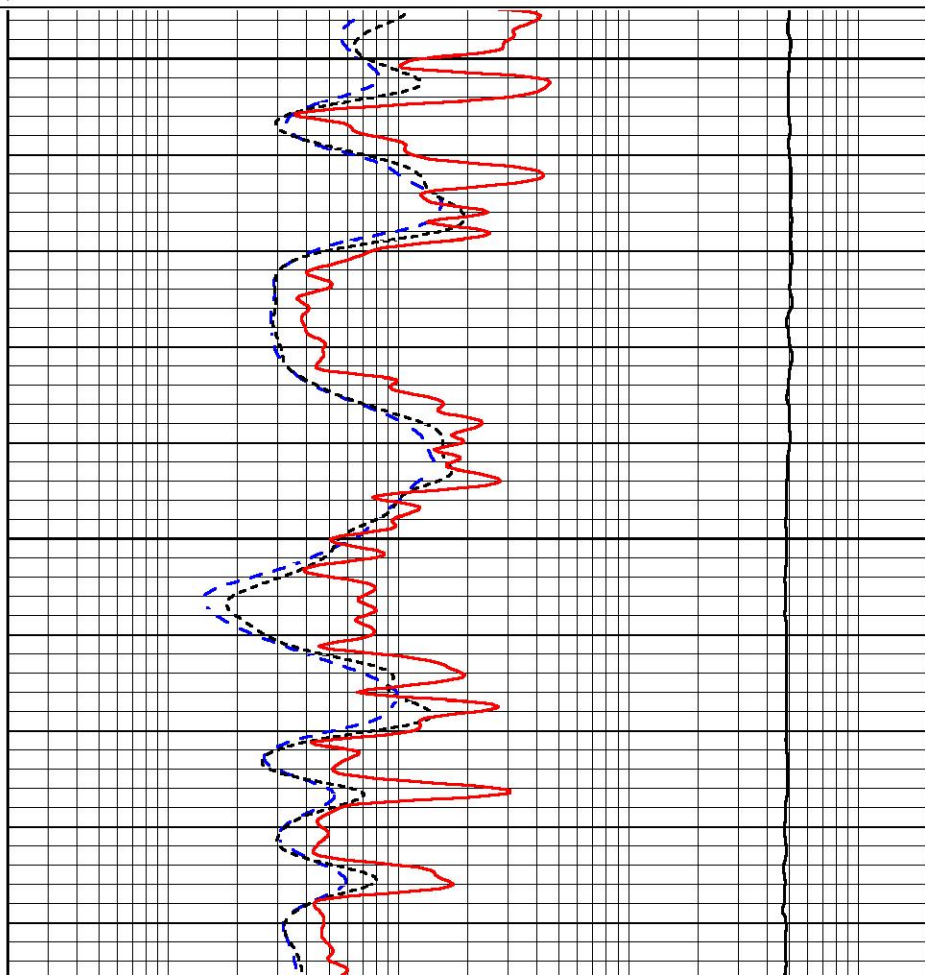
MAIN PASS

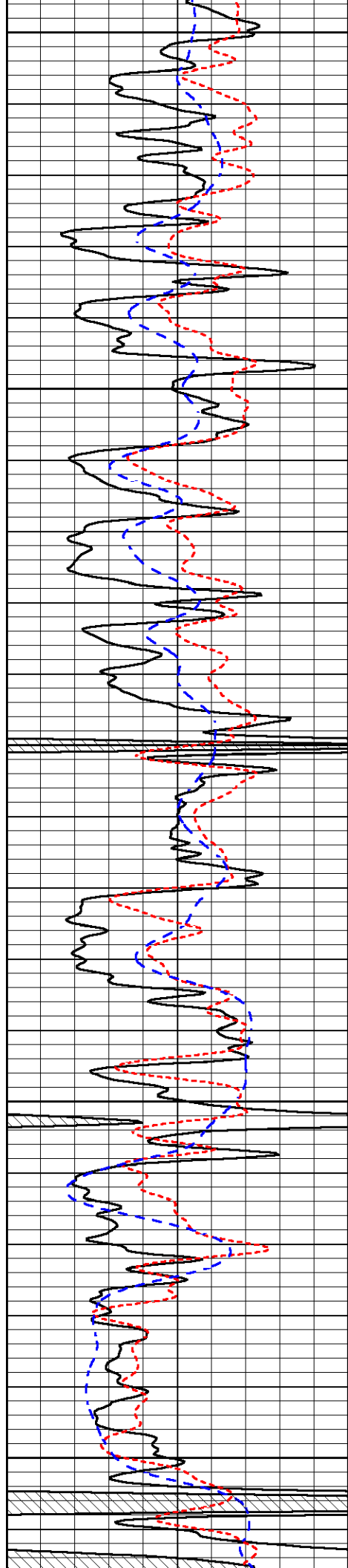
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 Dataset Pathname STKML/pass3.1
 Presentation Format _dil
 Dataset Creation Tue Jul 02 02:46:01 2024
 Charted by Depth in Feet scaled 1:240



3000

3050





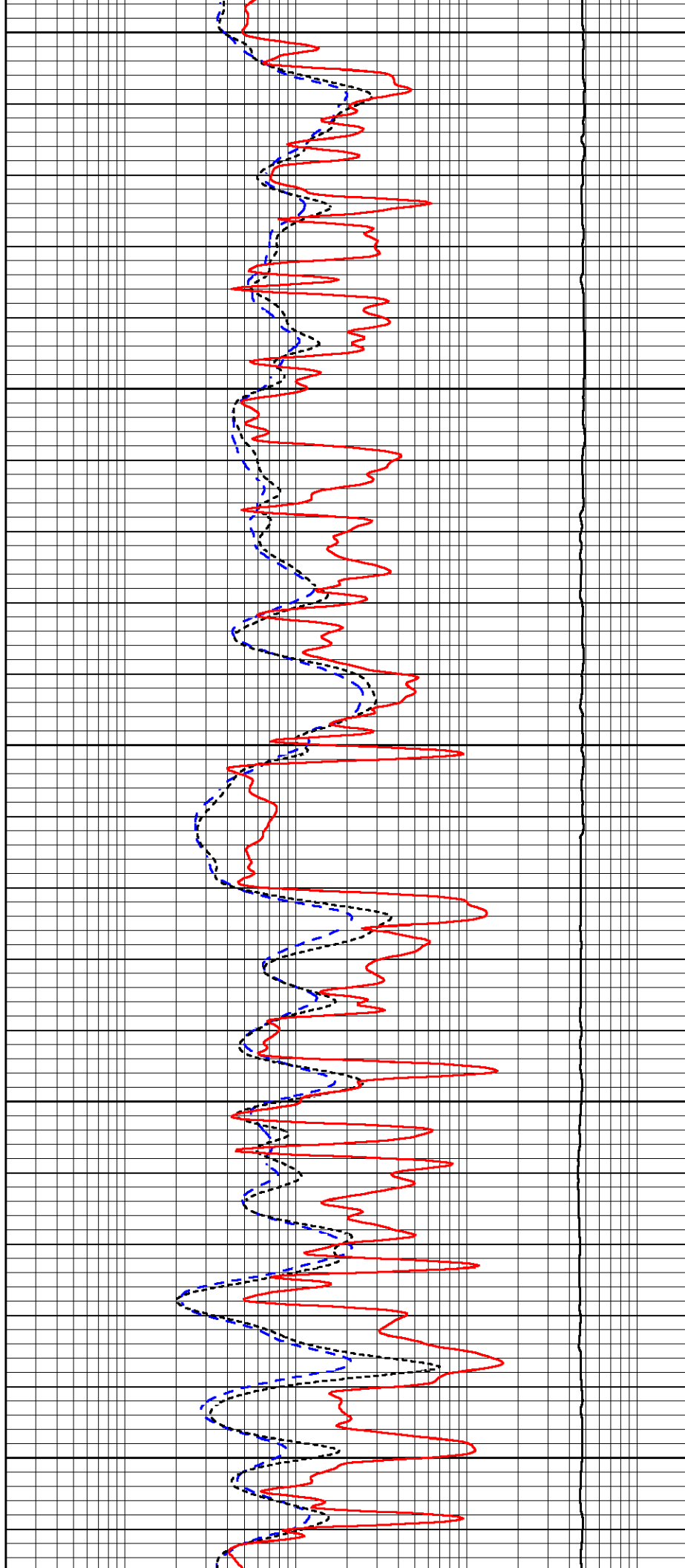
3100

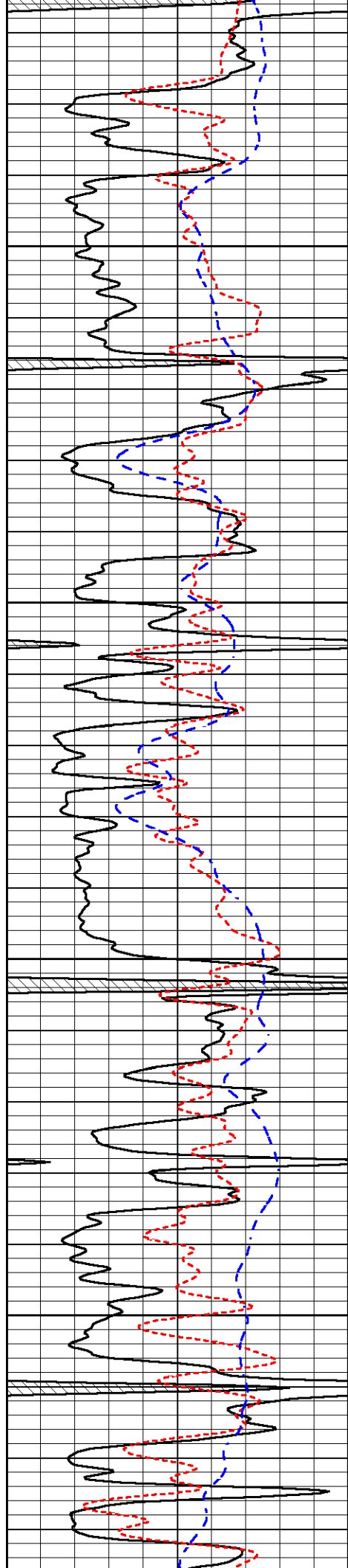
3150

3200

3250

3300



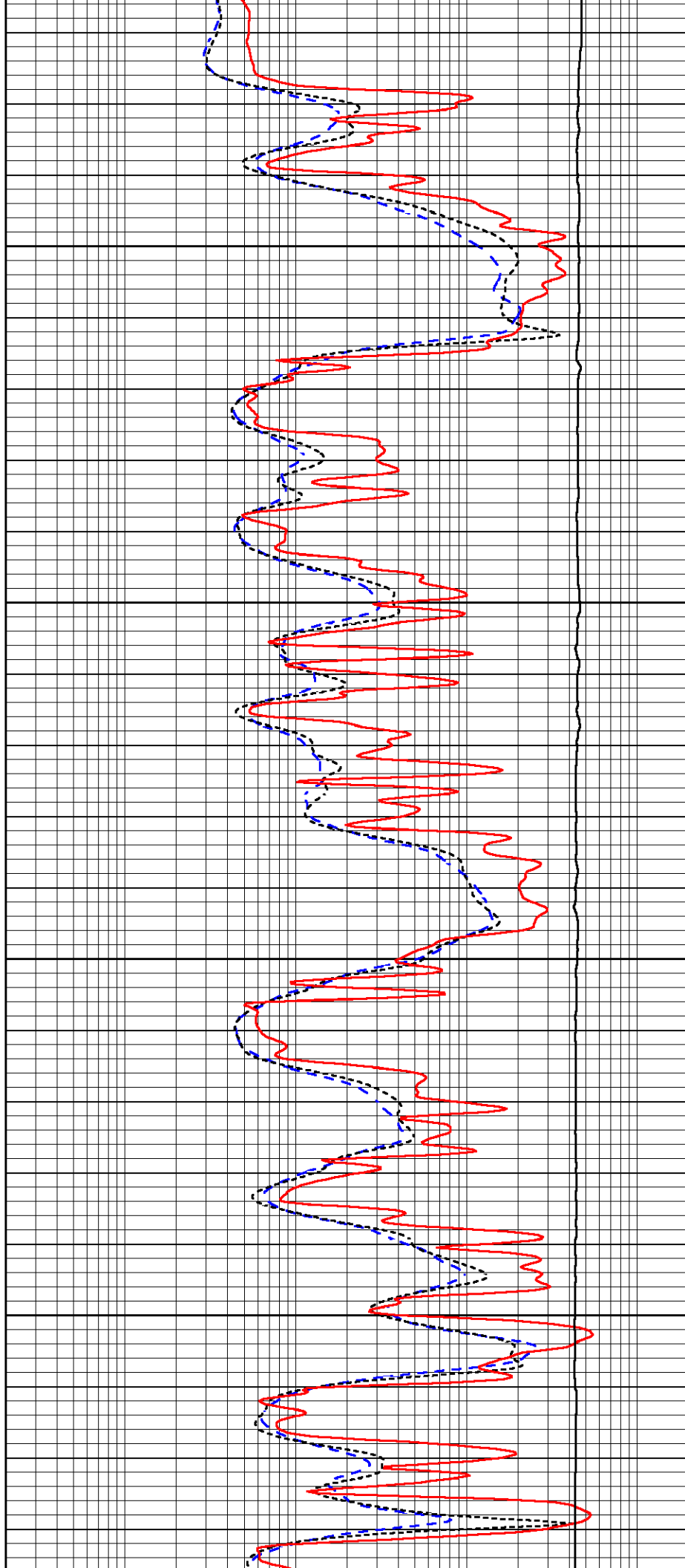


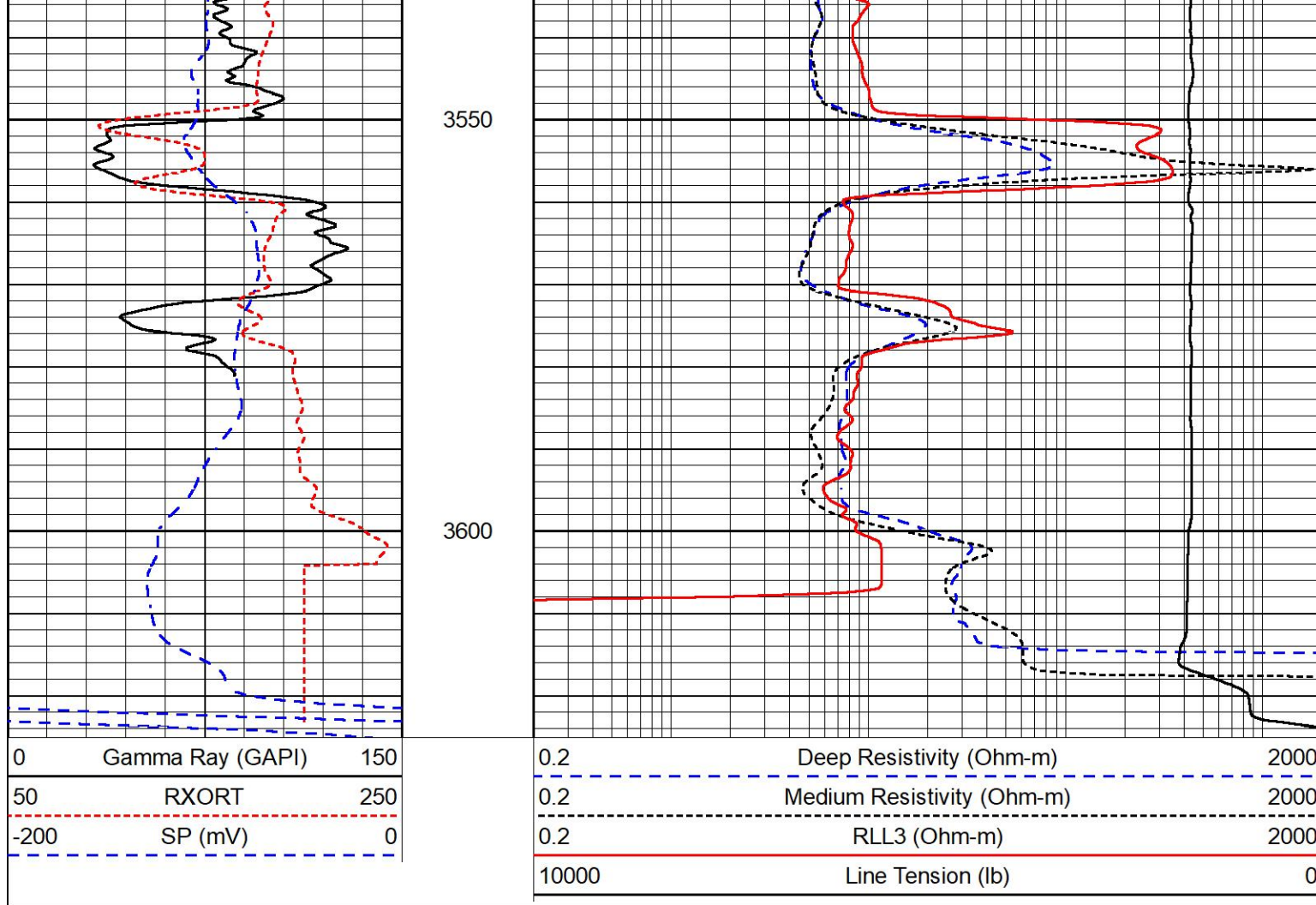
3350

3400

3450

3500



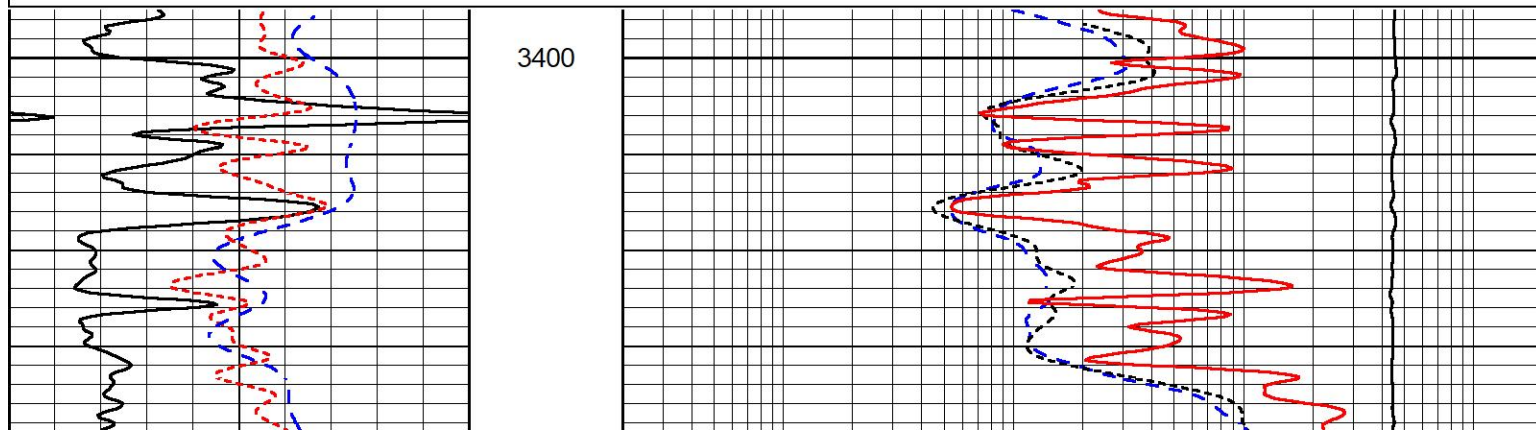
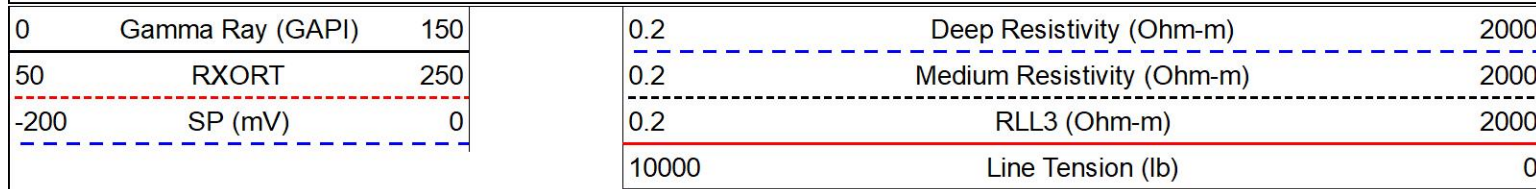


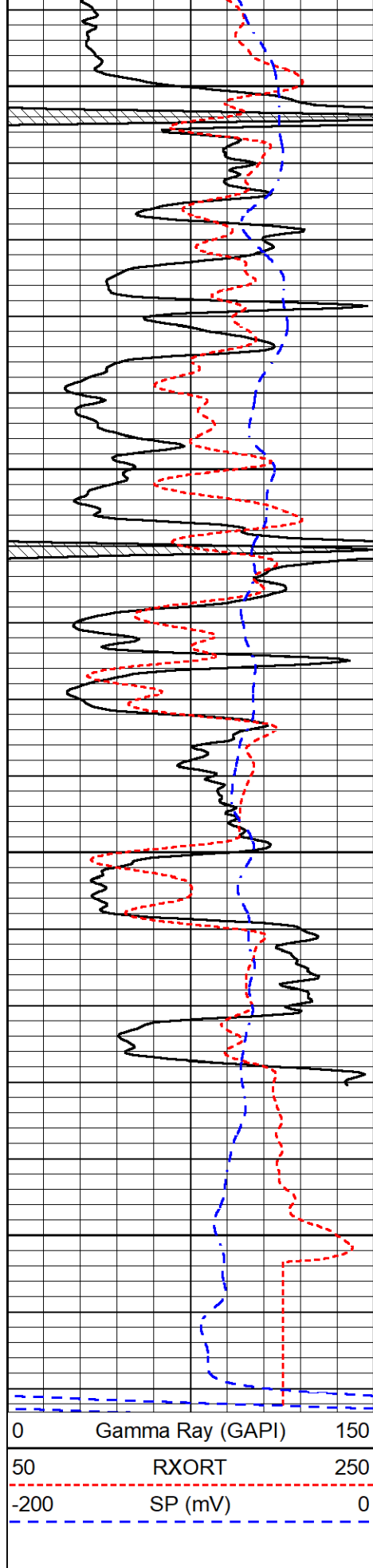
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File blake exploration llc_roberts #2.db
 Dataset Pathname STKML/pass2.1
 Presentation Format _dil
 Dataset Creation Tue Jul 02 02:55:01 2024
 Charted by Depth in Feet scaled 1:240



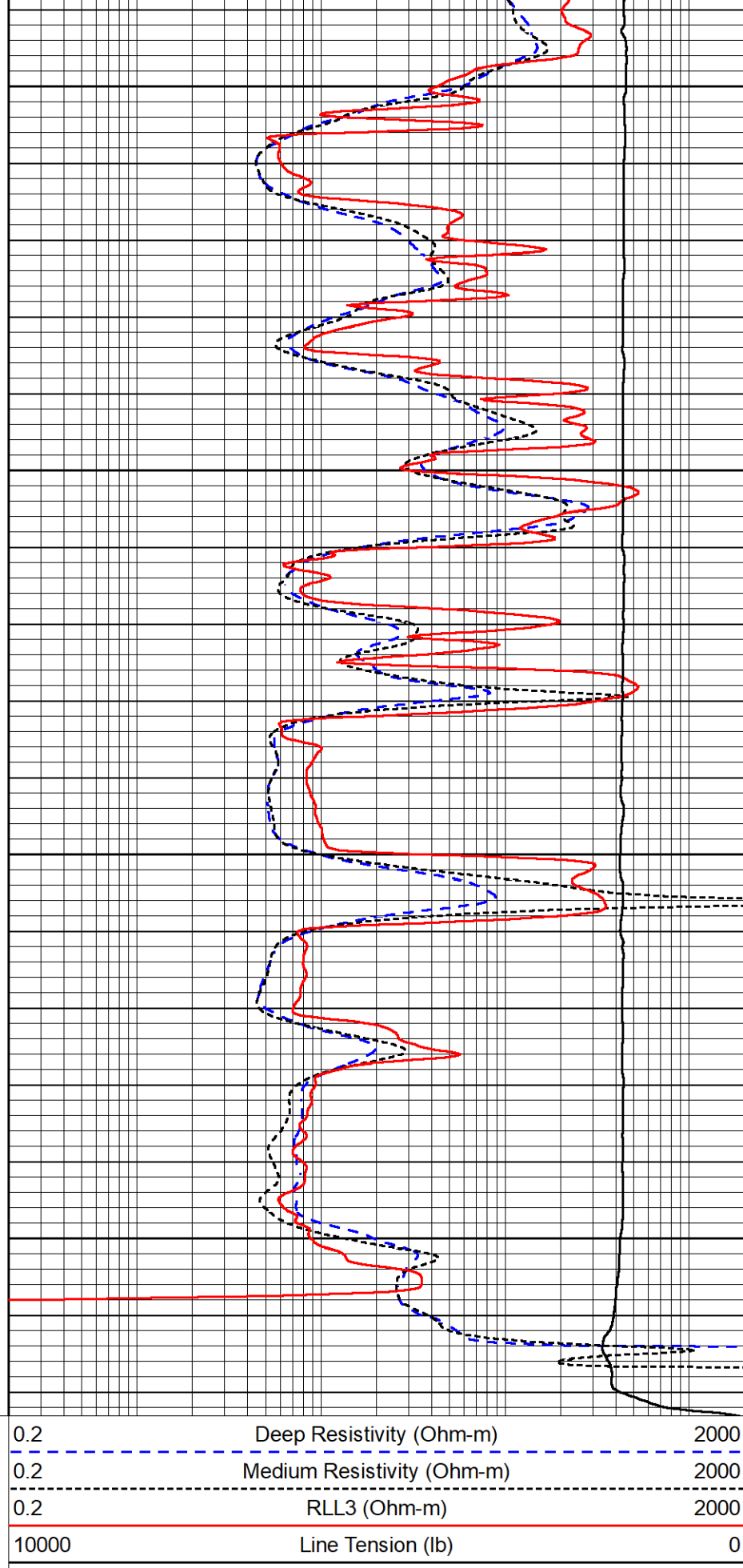


3450

3500

3550

3600



Calibration Report

Database File blake exploration llc_roberts #2.db
Dataset Pathname STKML / case2 1

Dual Induction Calibration Report							
Serial-Model: Surface Cal Performed:				507-M&W Fri Jul 14 14:17:56 2023			
		Readings		References		Results	
Loop:	Air	Loop		Air	Loop	m	b
Deep	68.570	638.100		0.000	255.800	mmho/m	0.500
Medium	184.288	716.191		0.000	255.800	mmho/m	0.450
							-37.000
							-79.000

Microlog Calibration Report							
Serial-Model: Performed:				401-PSIML Wed Jun 12 18:17:09 2024			
		Readings		References		Results	
	Zero	Cal		Zero	Cal	m	b
Normal	0.0000	1.0000		0.0000	1.0000	Ohm-m	15000.0000
Inverse	0.0000	1.0000		0.0000	1.0000	Ohm-m	22000.0000
Caliper	1.0052	1.0858		5.0000	16.5000	in	142.7190
							-0.5000
							-1.5000
							-139.1500

Compensated Density Calibration Report					
Serial-Model:		305-24-M&W			
Source #:		20762B			
Master Calibration Performed:		Wed May 15 13:00:44 2024			
Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.680	g/cc	4998.33	5705.34	cps
Aluminum	2.580	g/cc	1098.93	3899.02	cps
Spine Angle = 75.89			Density/Spine Ratio = 0.576		
	Size		Reading		
Small Ring	4.00	in	1.74		
Large Ring	14.00	in	1.38		

Compensated Neutron Calibration Report						
Serial Number:			207			
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

Gamma Ray Calibration Report							
Serial Number:				105			

Tool Model:	M&W	
Performed:	Mon Aug 7 20:46:01 2023	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.6000	GAPI/cps



Company	Blake Exploration, LLC
Well	Roberts #2
Field	LeSage West
County	Graham
State	Kansas