



MIDWEST WIRELINE

DUAL INDUCTION

CompanySatchell Creek Petroleum LLC	
Well	Hobbs A #7-34
Field	Unnamed
County	Graham
State	Kansas
Company Satchell Creek Petroleum LLC	
Well	Hobbs A #7-34
Field	Unnamed
County	Graham
State	Kansas
Location:	API # : 15-065-24291-00-00
Permanent Datum	NW NE SW NW 1645 FNL & 977 FWL
Log Measured From	SEC 34 TWP 10S RGE 25W
Drilling Measured From	Ground Level Elevation 2471
	Kelly Bushing
	Kelly Bushing
	Elevation 2478
	G.L. 2471
Date	10/5/2023
Run Number	One
Depth Driller	4130
Depth Logger	4125
Bottom Logged Interval	4124
Top Log Interval	200
Casing Driller	8.625 @ 227
Casing Logger	220
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity ,ppm CL	1800
Density / Viscosity	9.2 57
pH / Fluid Loss	10.5 4.8
Source of Sample	Flowline
Rm @ Meas. Temp	0.85 @ 68
Rmt @ Meas. Temp	0.64 @ 68
Rmc @ Meas. Temp	1.15 @ 68
Source of Rmt / Rmc	Charts
Rm @ BHT	0.49 @ 117
Operating Rig Time	2 Hours
Max Rec. Temp. F	117
Equipment Number	P-24
Location	Hays
Recorded By	T. Martin
Witnessed By	Sean Deenihan

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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.

St Peter, KS, S to Rd B, 1 W, S into

Log Measured From: Kelly Bushing

7 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: Sean Deenihan
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.75		GR-M&W (103)	3.00	3.50	50.00
CNLSC	37.65		CNT-M&W (207)	5.00	3.50	100.00
CNSSC	36.90					
			MWLith-STEP LITHO (704-10) Long Litho Mandrel	8.92	5.00	250.00
LCAL	28.21		ML-PSIML (401)	7.58	4.00	65.00
LLW8N	28.21					
LLW7N	28.21					
LLW6N	28.21					
LLW5N	28.21					
LLW4N	28.21					
LLW3N	28.21					
LLW2N	28.21					
LLW1N	28.21					
LSLOCK	27.96					
LLLOCK	27.96					
PELTMPR	27.96					
LSHVNG	27.96					
LLHVNG	27.96					
LSW8N	27.71					
LSW7N	27.71					
LSW6N	27.71					
LSW5N	27.71					
LSW4N	27.71					
LSW3N	27.71					
LSW2N	27.71					
LSW1N	27.71					
MCAL	19.58		DIL-M&W (507)	18.25	3.50	220.00
MI	19.58					
MN	19.58					
RLL3F	15.50					
RLL3	15.50					
CILD	8.33					
CILM	4.50					
SP	0.20					
Dataset: satchell_hobbs a #7-34.db: field/well/StkMI/pass3.1 Total length: 42.75 ft Total weight: 685.00 lb O.D.: 5.00 in						

Log Variables

DatabaseC:\ProgramData\Warrior\Data\satchell_hobbs a #7-34.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 117	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 0.5	SNDERRM mmho/m -4.5	SPSHIFT mV 300	SRFTEMP degF 65	SZCOR Off	TDEPTH ft 4125		

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

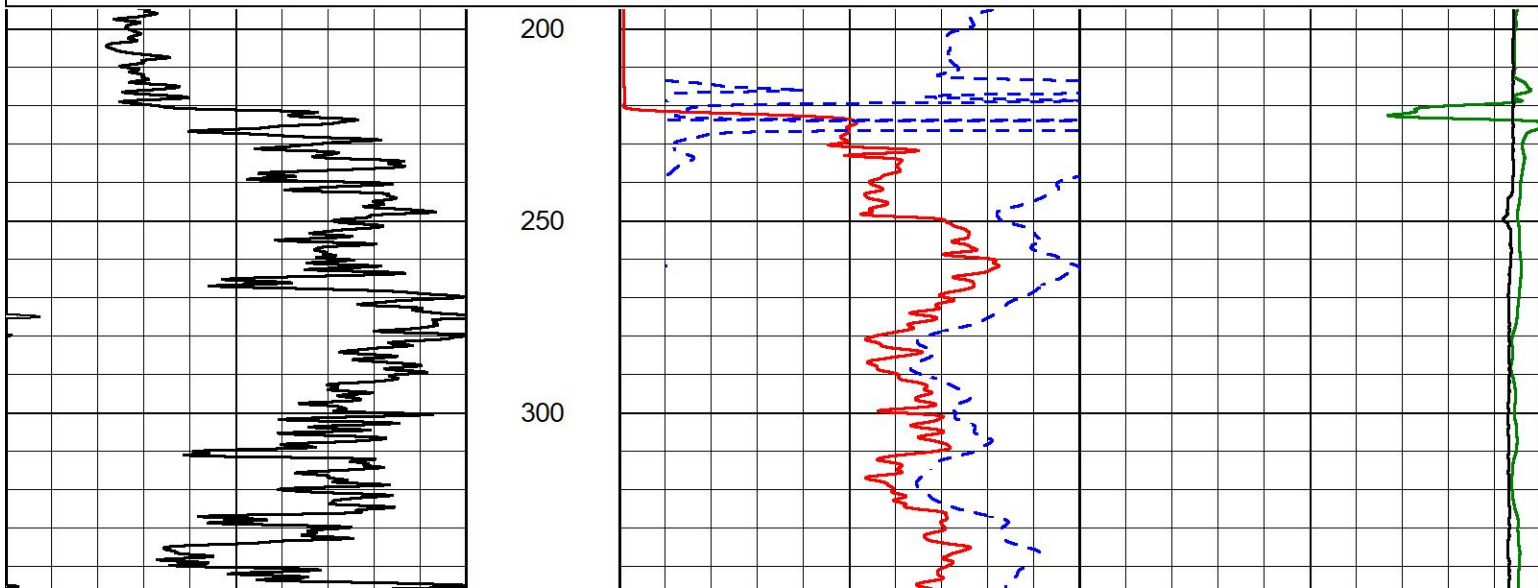


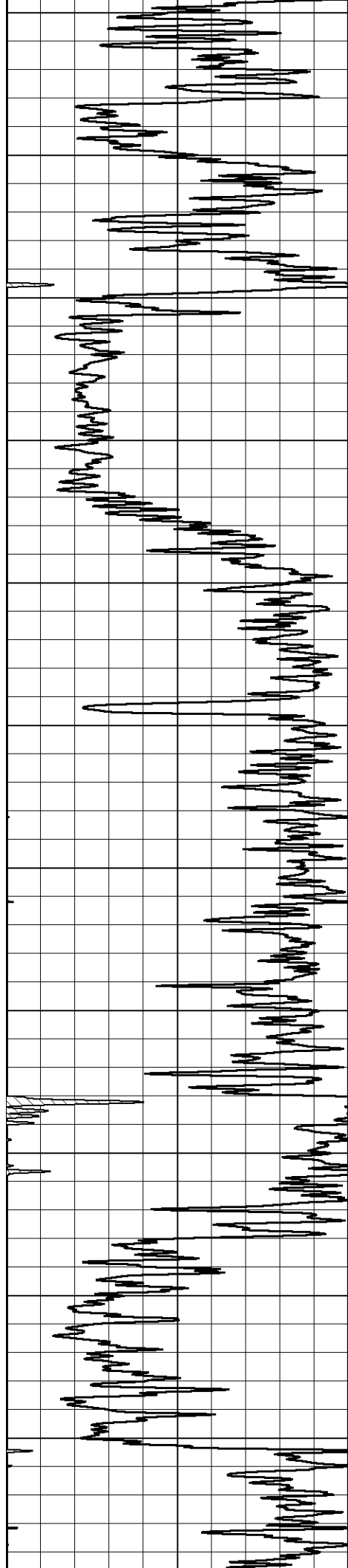
2" SCALE RESISTIVITY

MAIN PASS

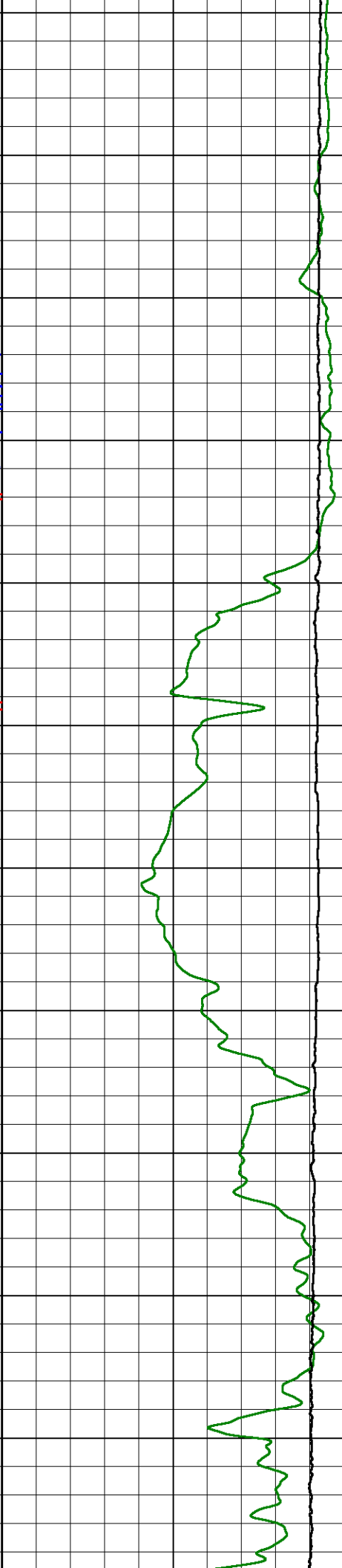
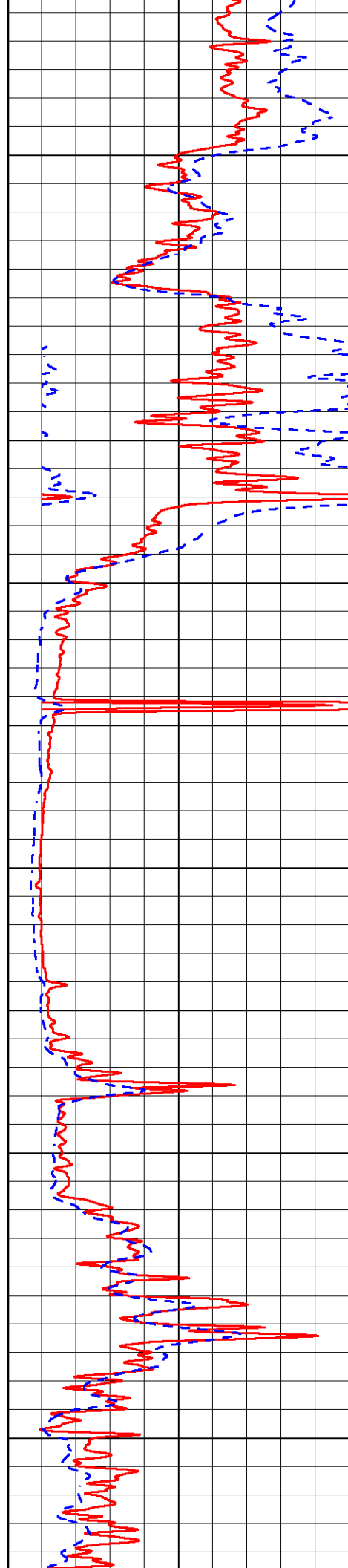
Database File satchell_hobbs a #7-34.db
Dataset Pathname StkMI/pass3.2
Presentation Format _dil2in
Dataset Creation Thu Oct 05 22:12:32 2023
Charted by Depth in Feet scaled 1:600

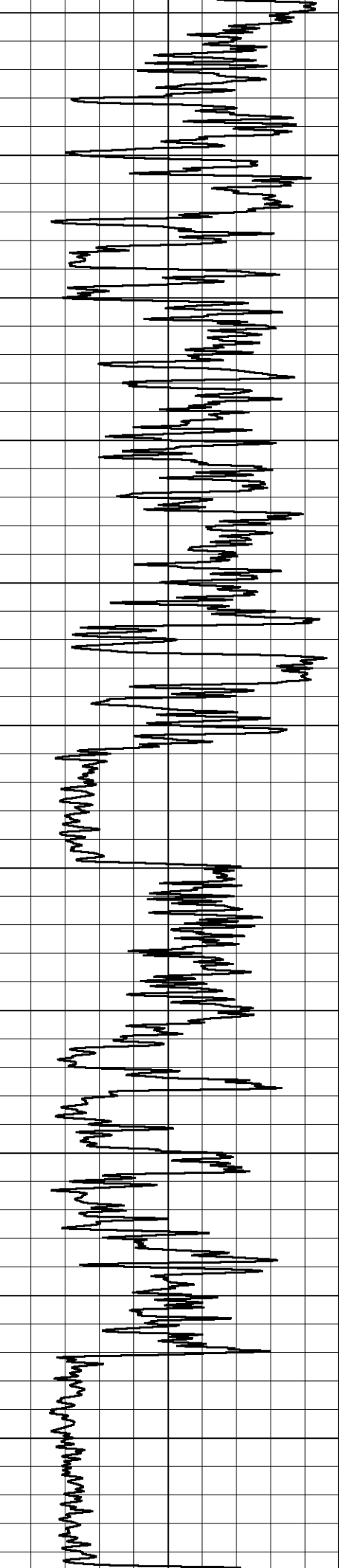
30	Gamma Ray (GAPI)	150	1000	Conductivity (mmho/m)	0
			15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
				Shallow Resistivity	
			50	(Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200



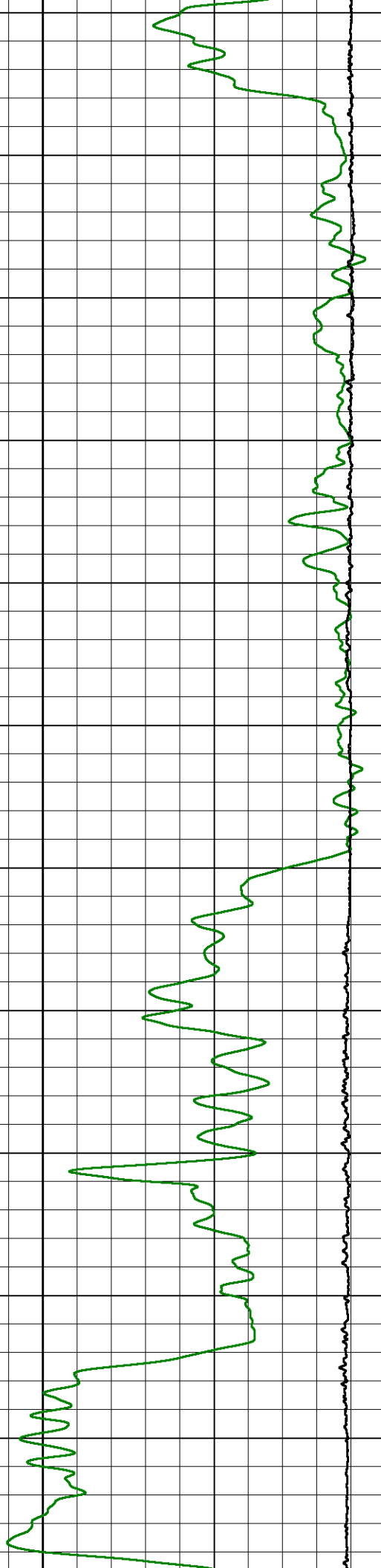
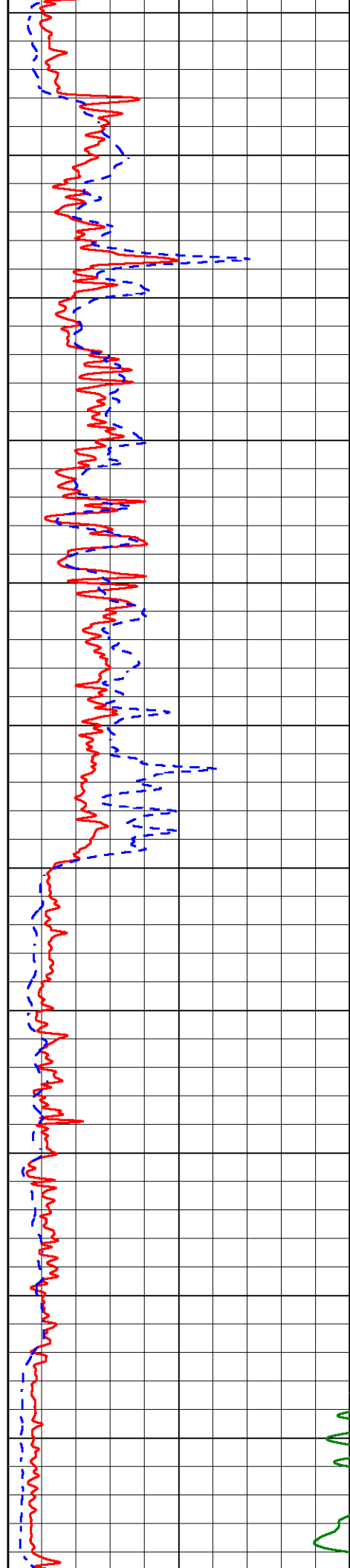


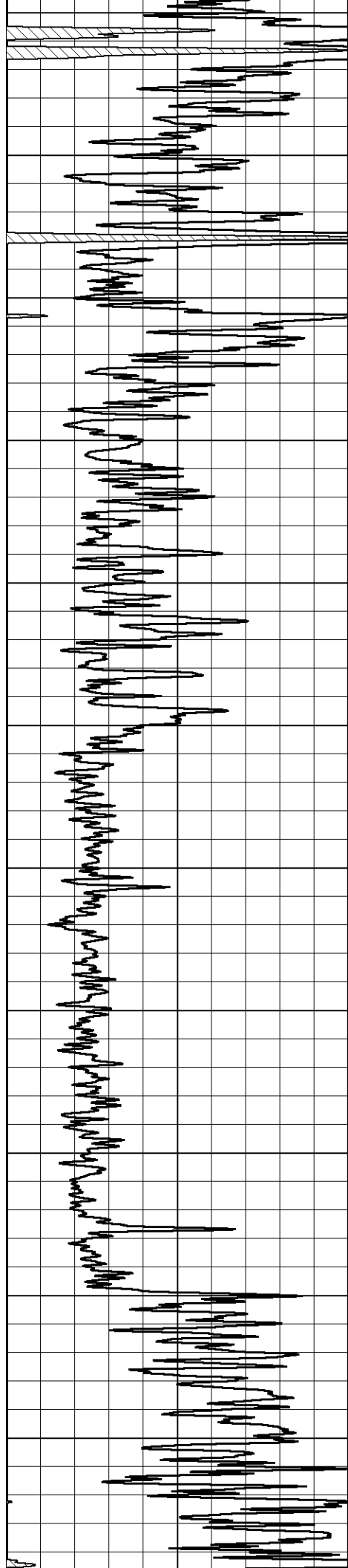
350
400
450
500
550
600
650
700
750
800
850



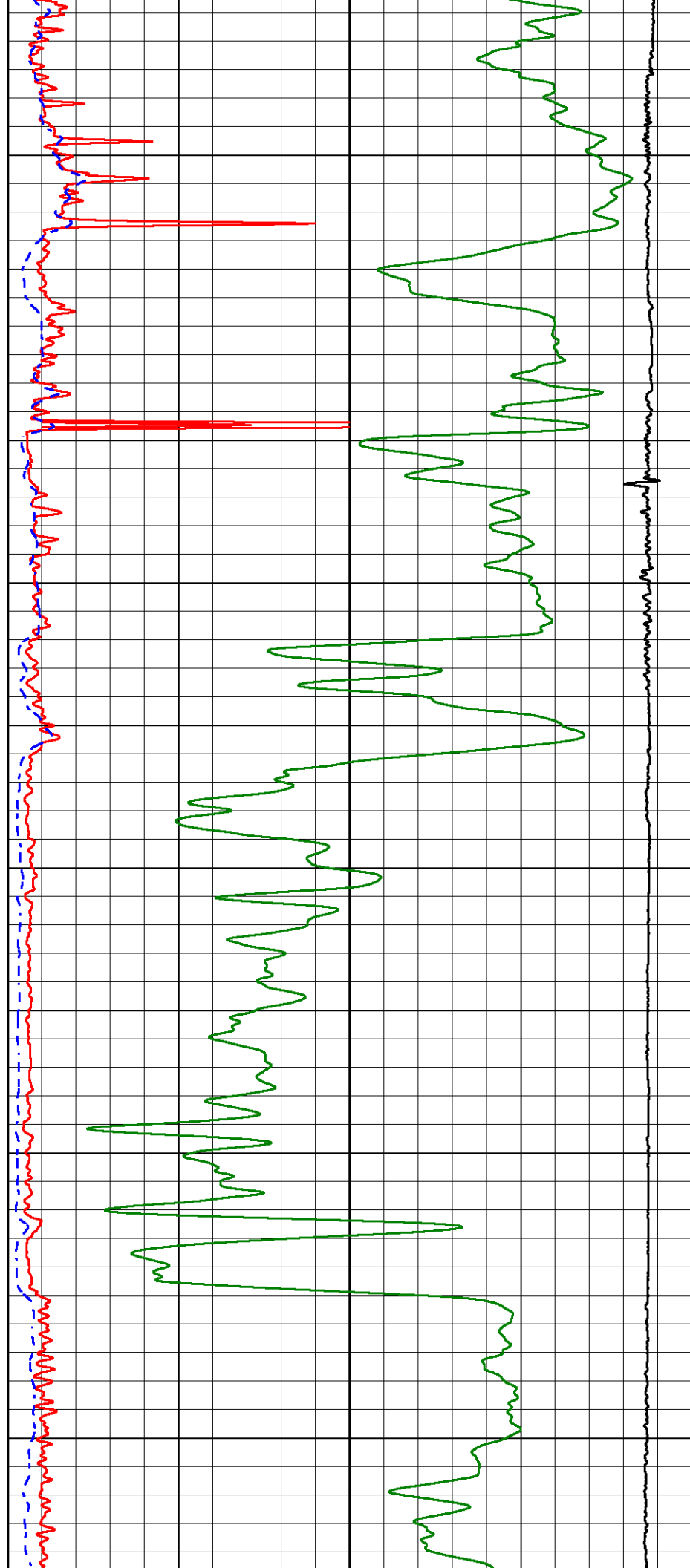


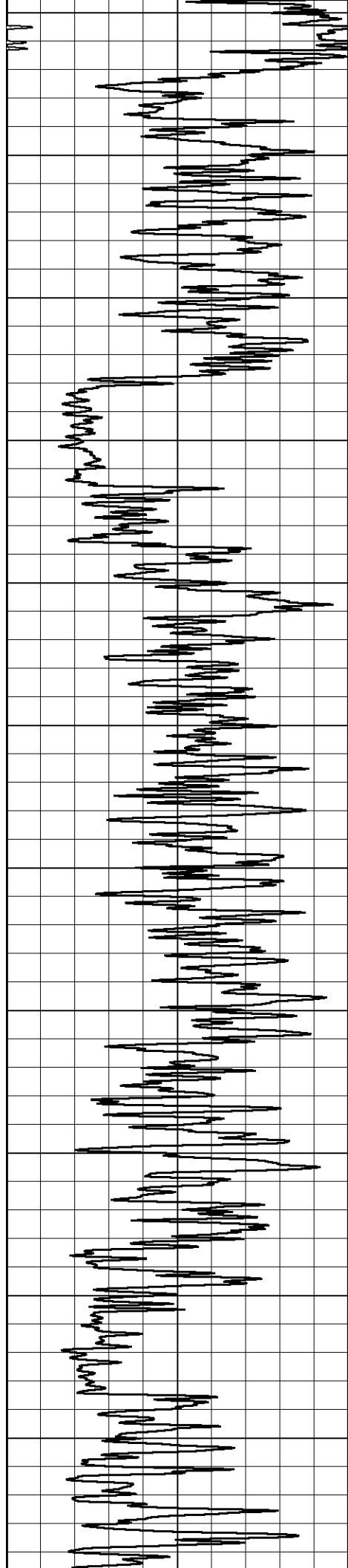
900
950
1000
1050
1100
1150
1200
1250
1300
1350
1400



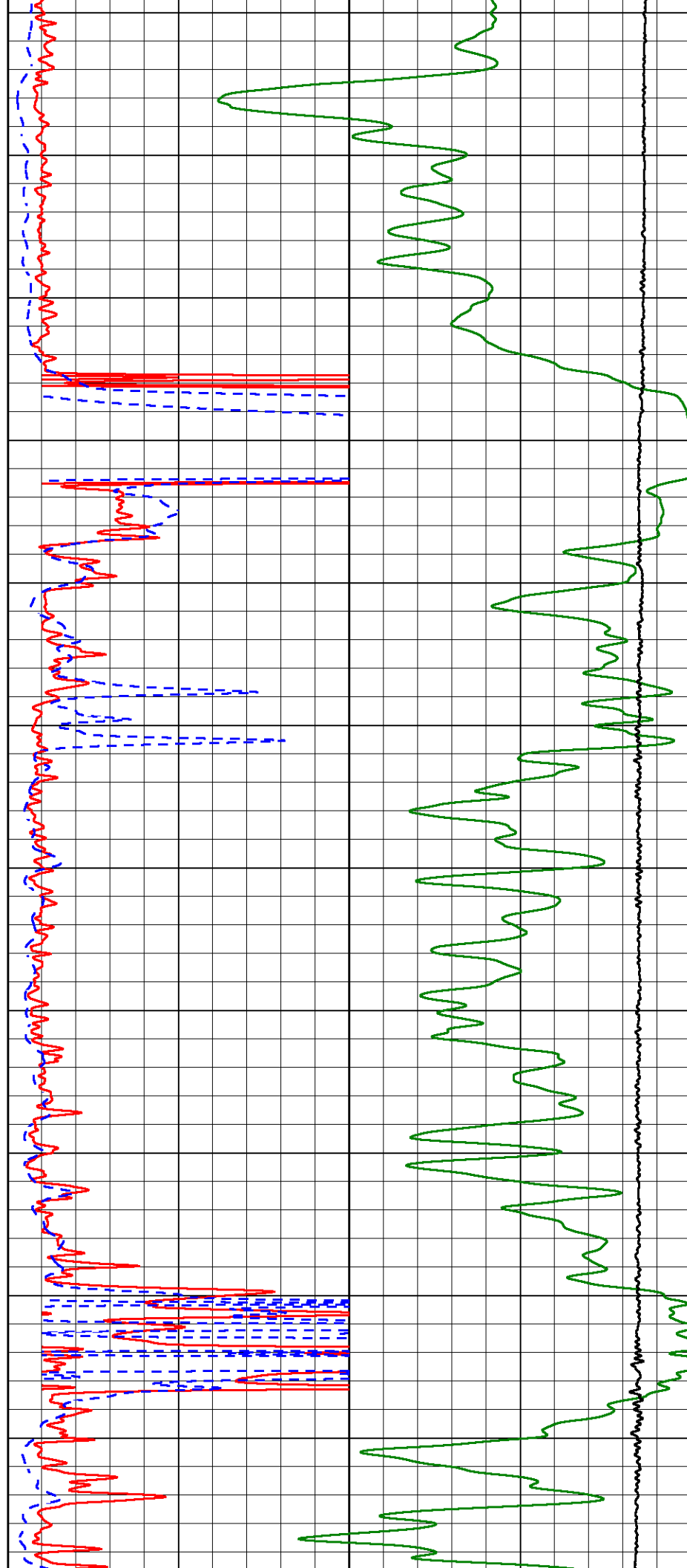


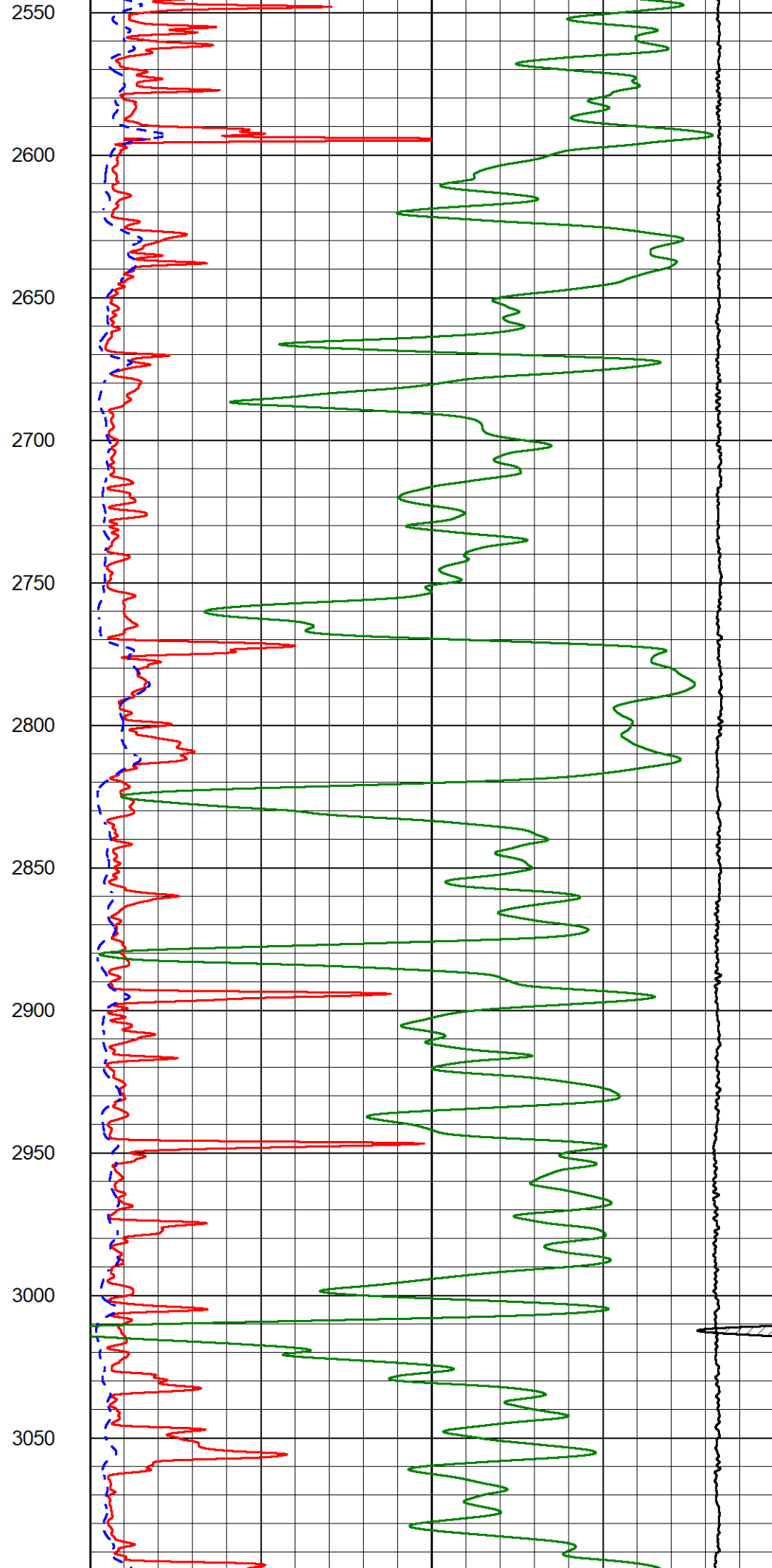
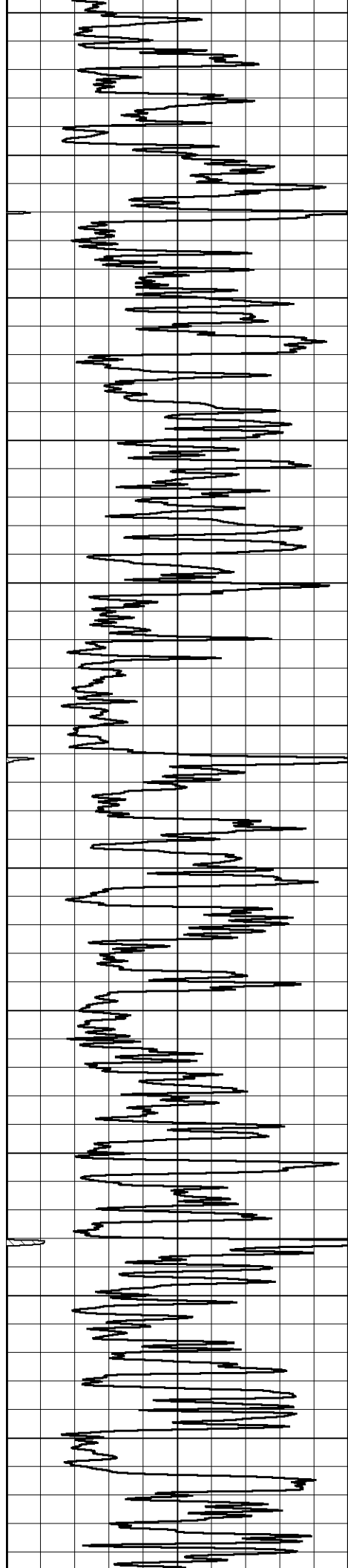
1450
1500
1550
1600
1650
1700
1750
1800
1850
1900
1950

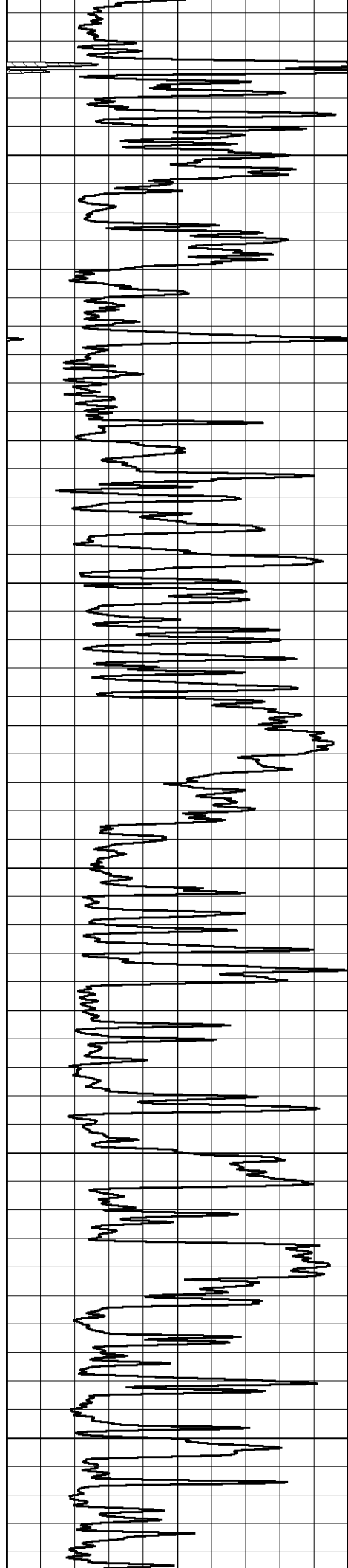




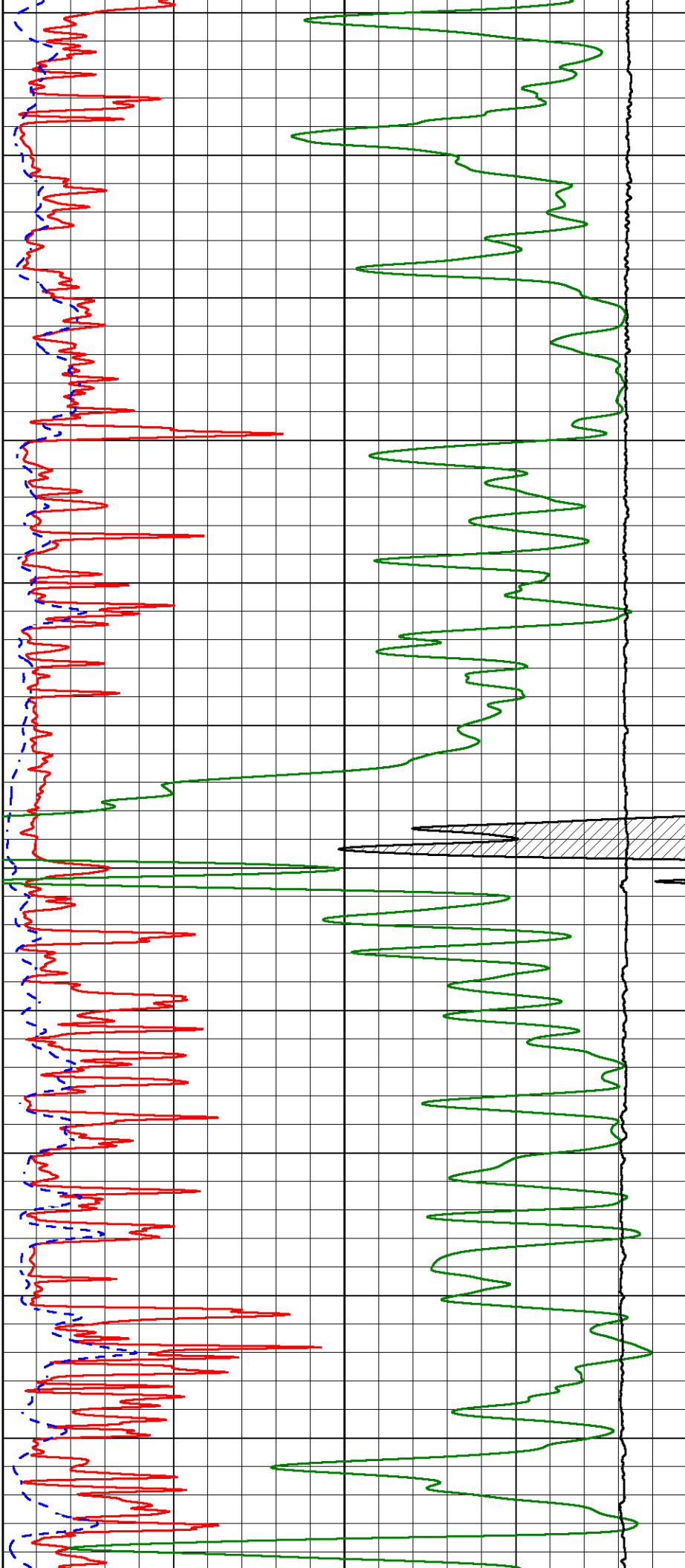
2000
2050
2100
2150
2200
2250
2300
2350
2400
2450
2500

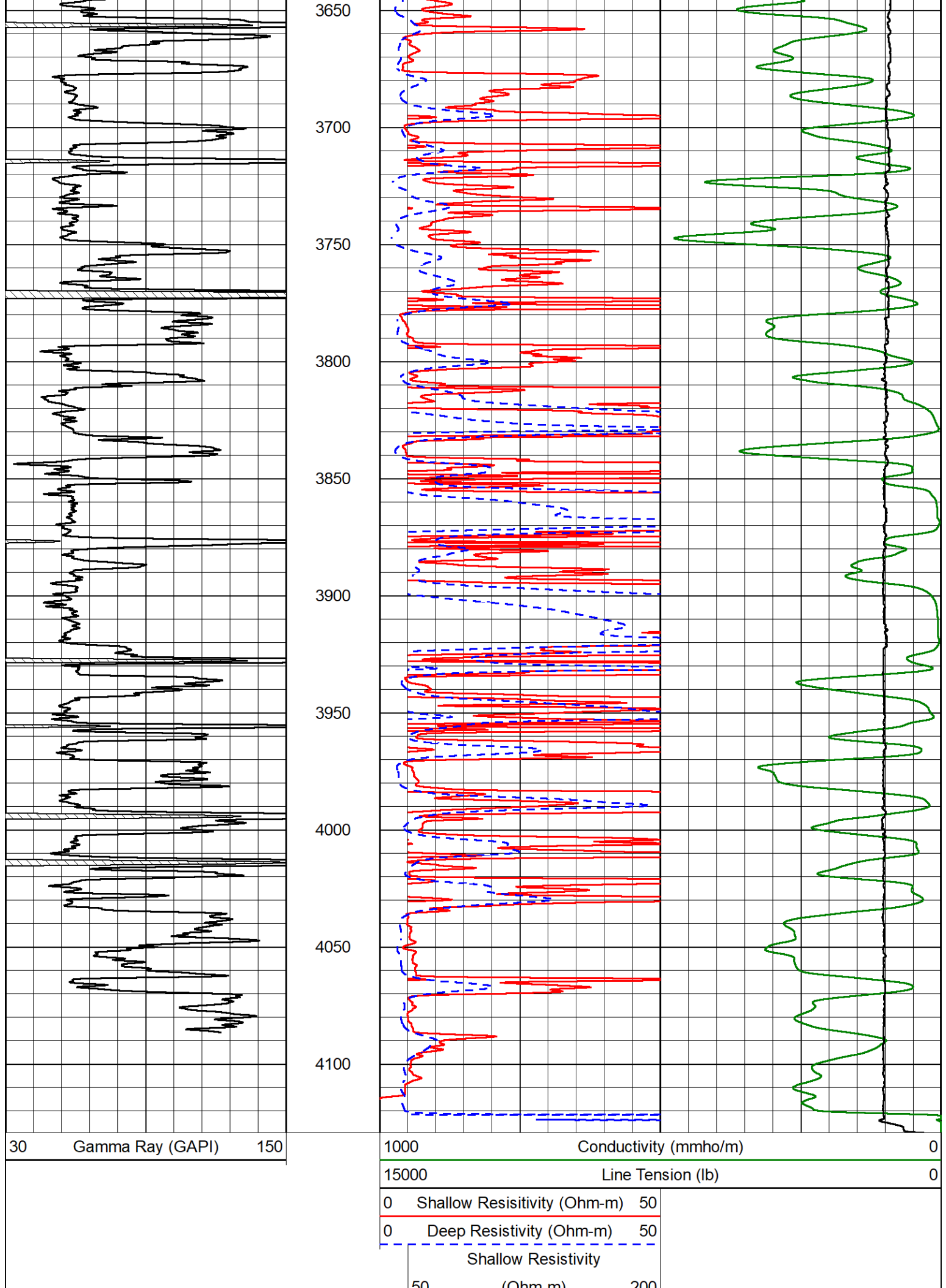






3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
3600





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



MIDWEST WIRELINE

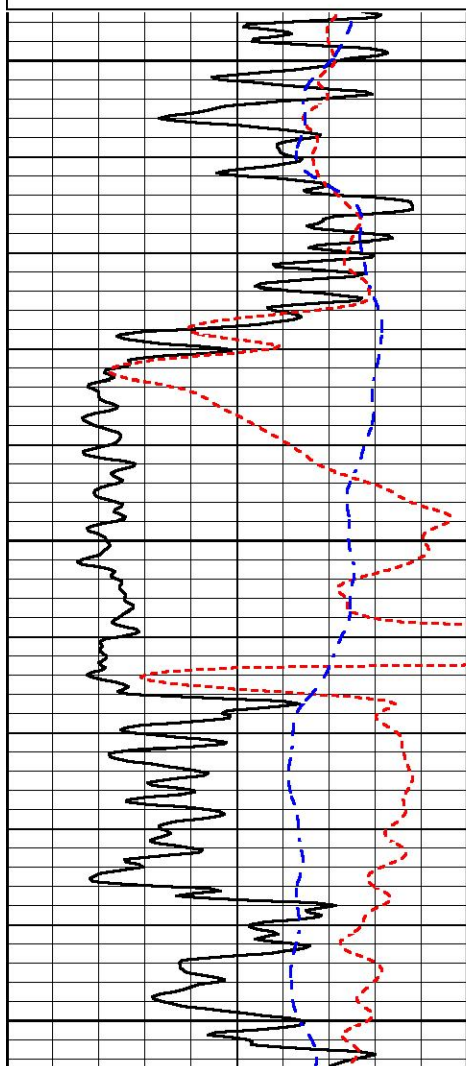
ANHYDRITE SECTION

MAIN PASS

Database File satchell_hobbs a #7-34.db
Dataset Pathname StkMI/pass3.4
Presentation Format _dil
Dataset Creation Thu Oct 05 21:46:57 2023
Charted by Depth in Feet scaled 1:240

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

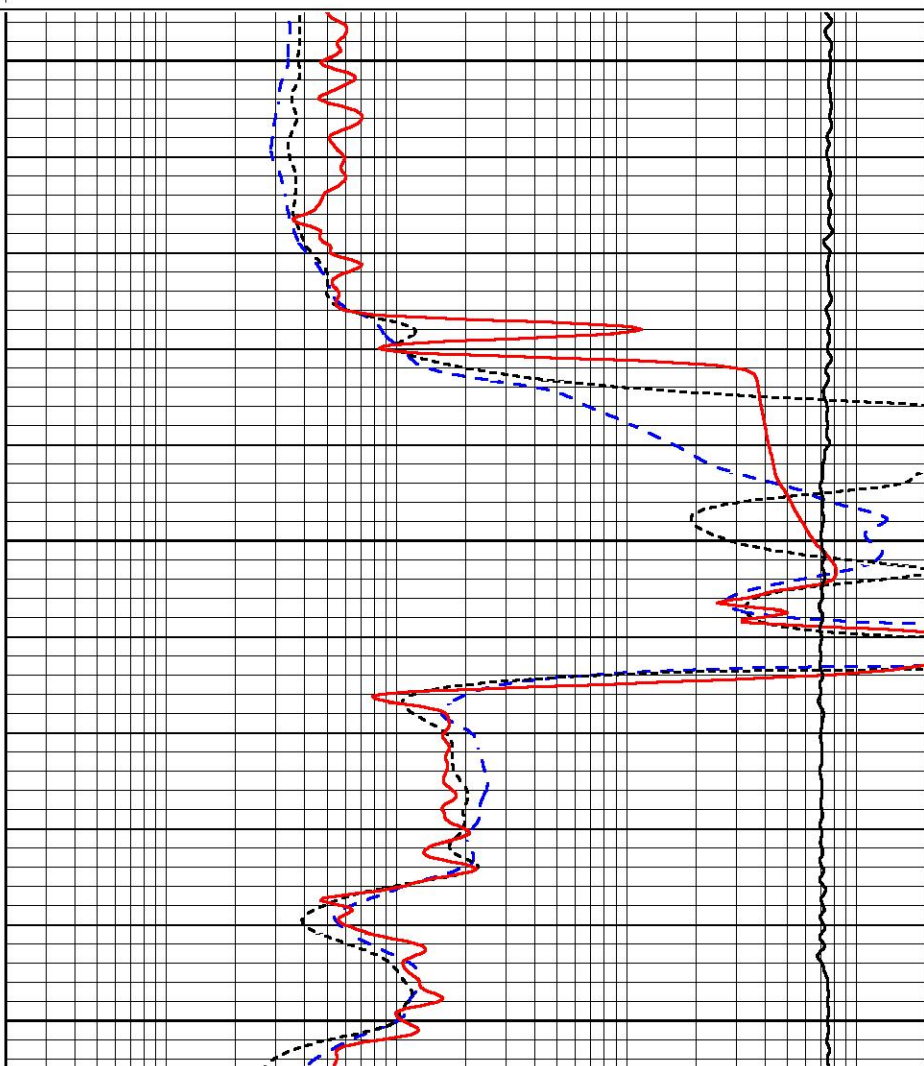
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0



2100

2150

2200



30	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

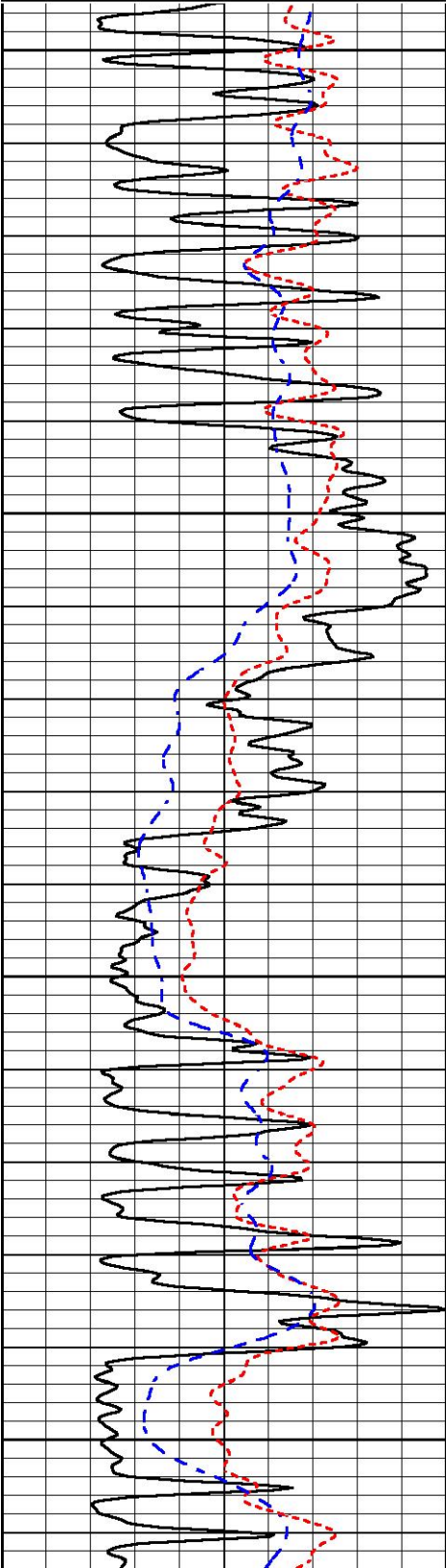


MAIN PASS

Database File satchell_hobbs a #7-34.db
Dataset Pathname StkMI/pass3.1
Presentation Format _dil
Dataset Creation Thu Oct 05 22:12:48 2023
Charted by Depth in Feet scaled 1:240

30	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

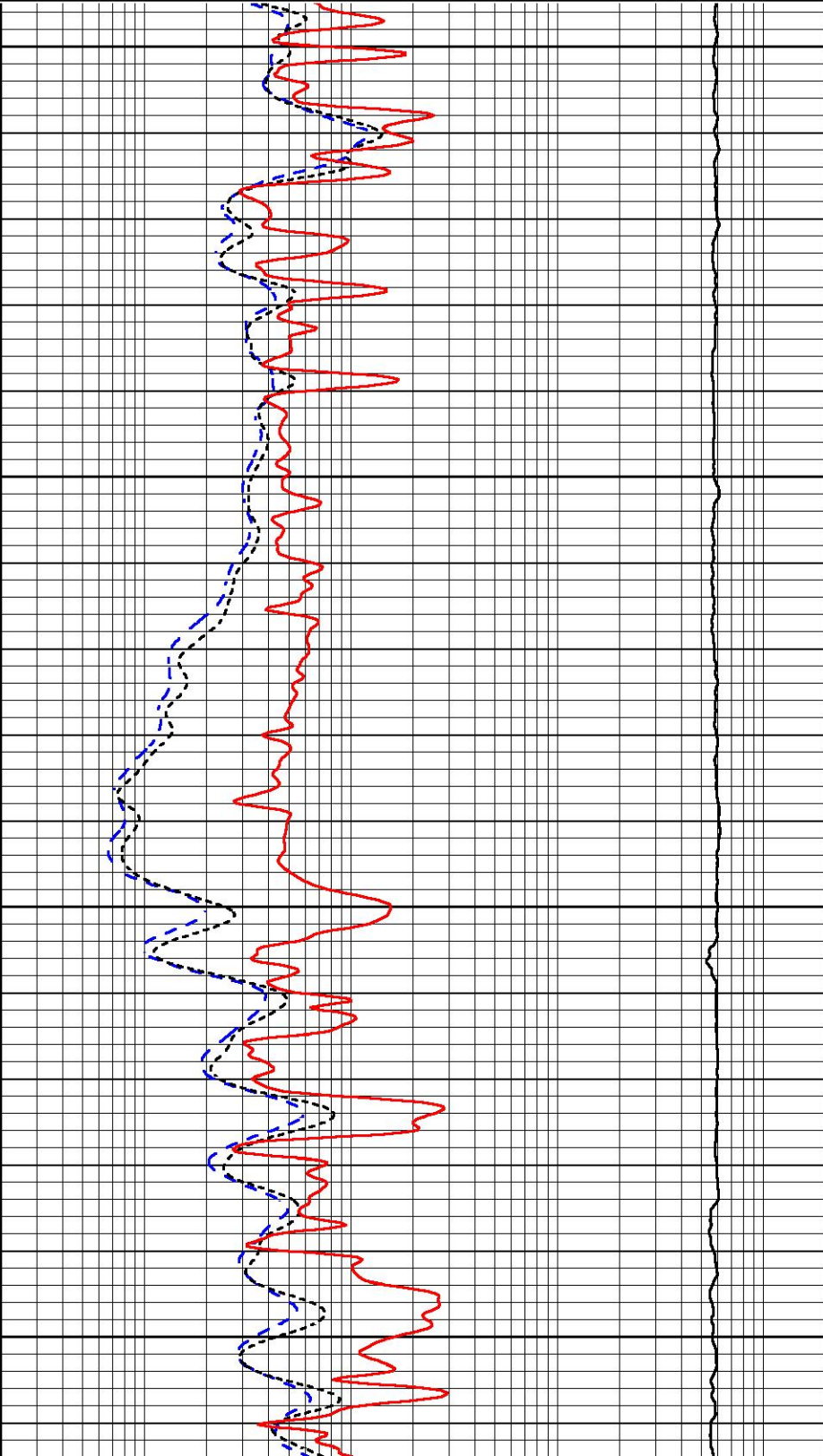


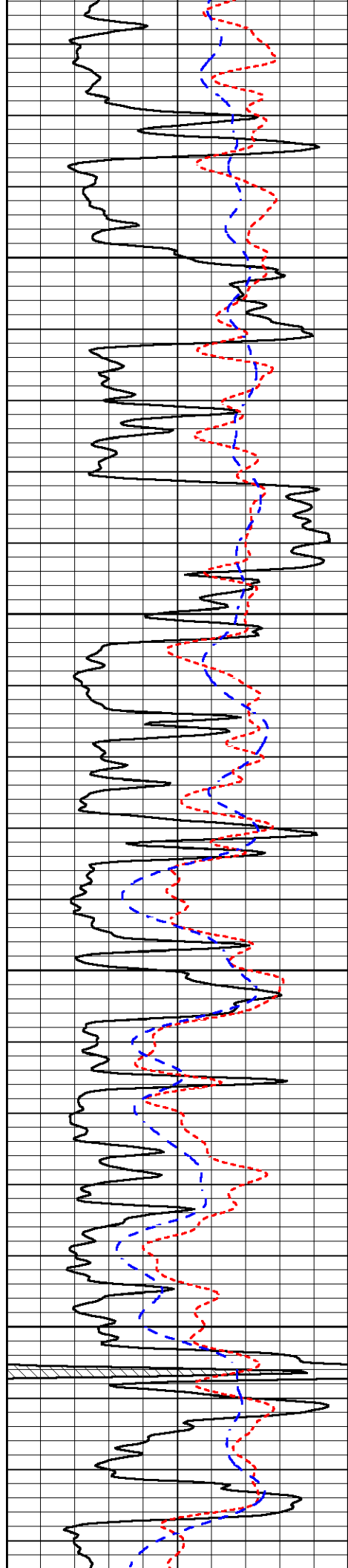
3300

3350

3400

3450



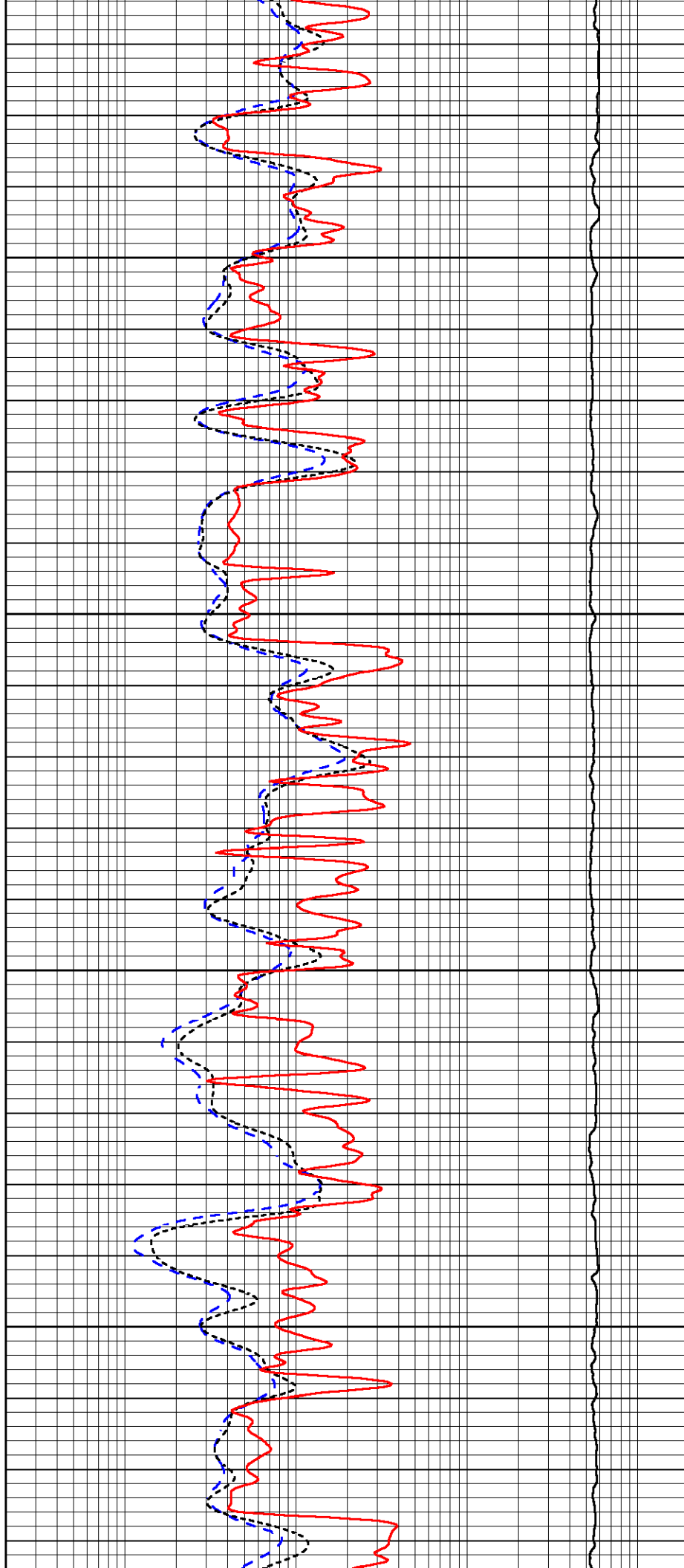


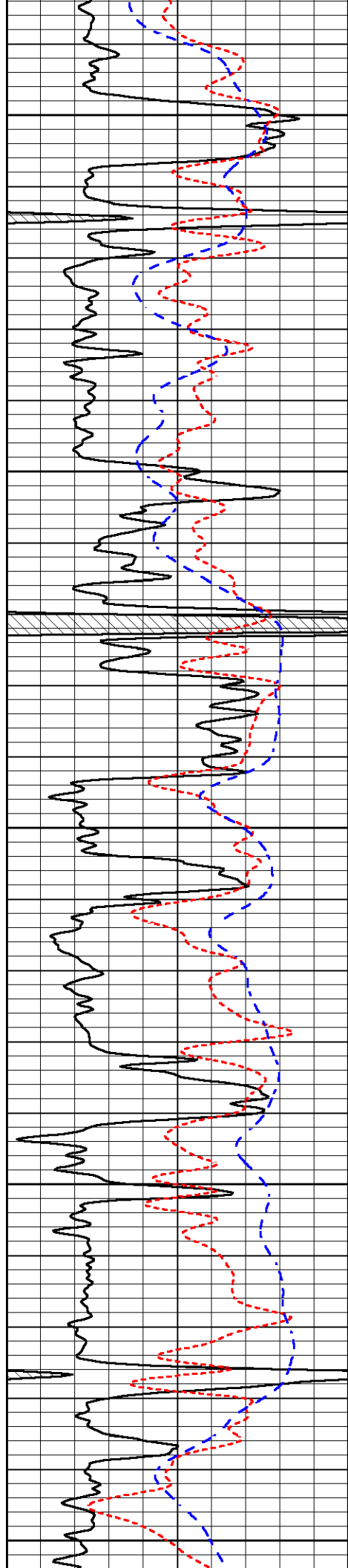
3500

3550

3600

3650





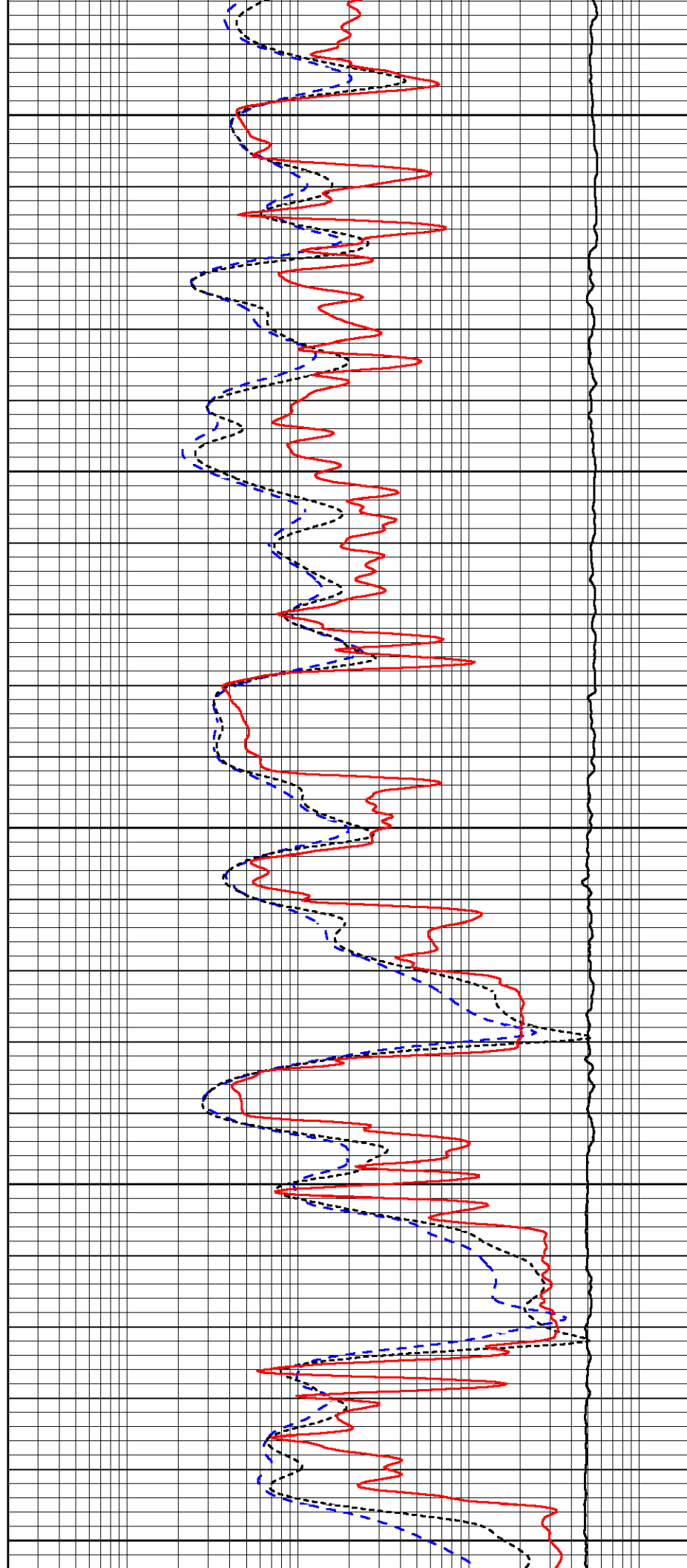
3700

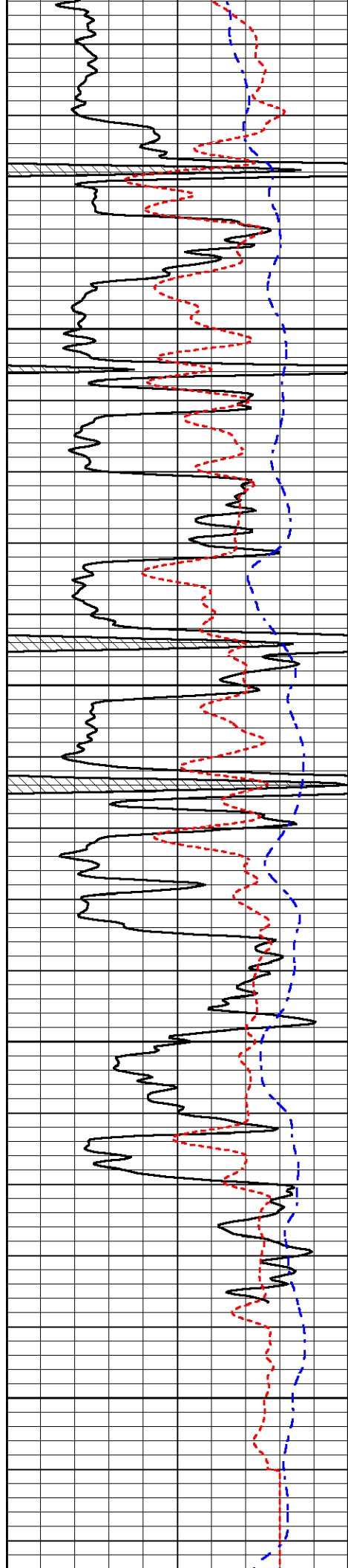
3750

3800

3850

3900



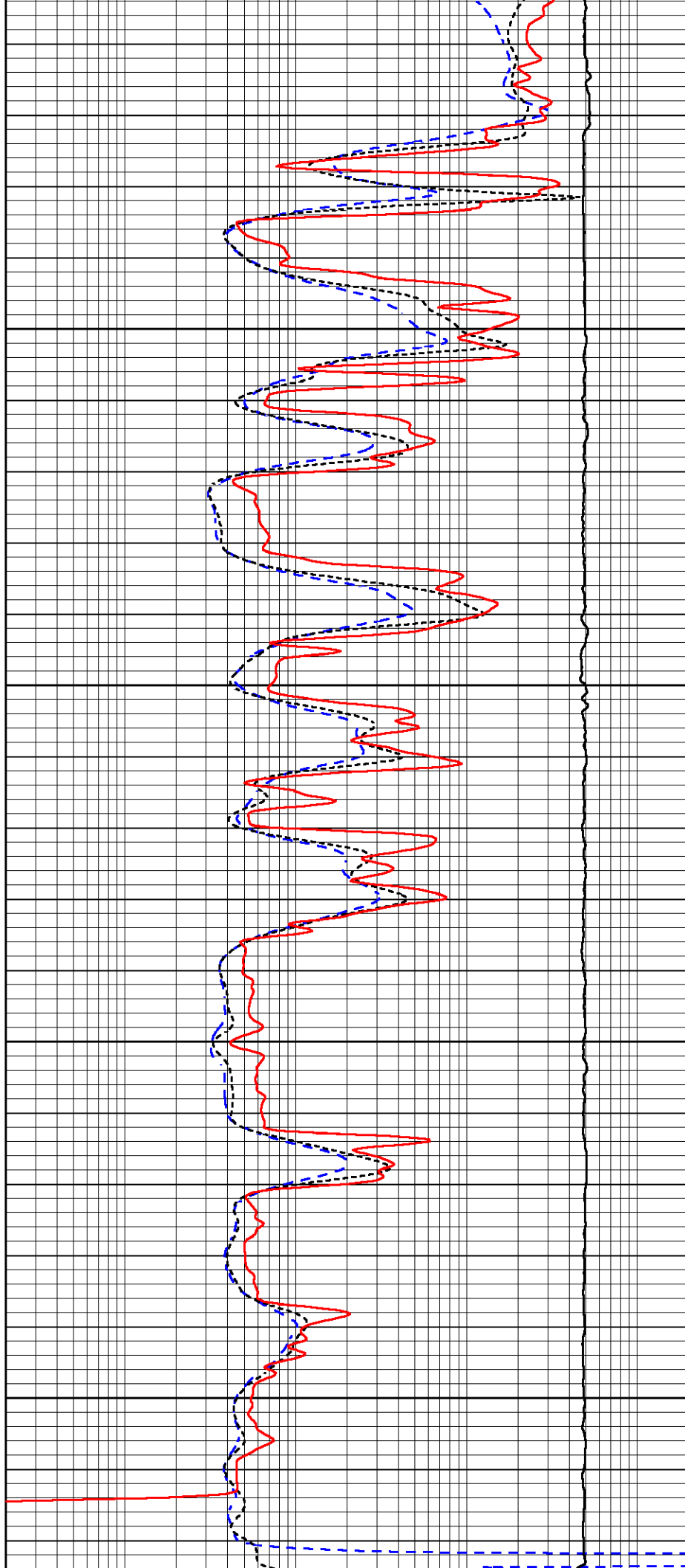


3950

4000

4050

4100



30	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

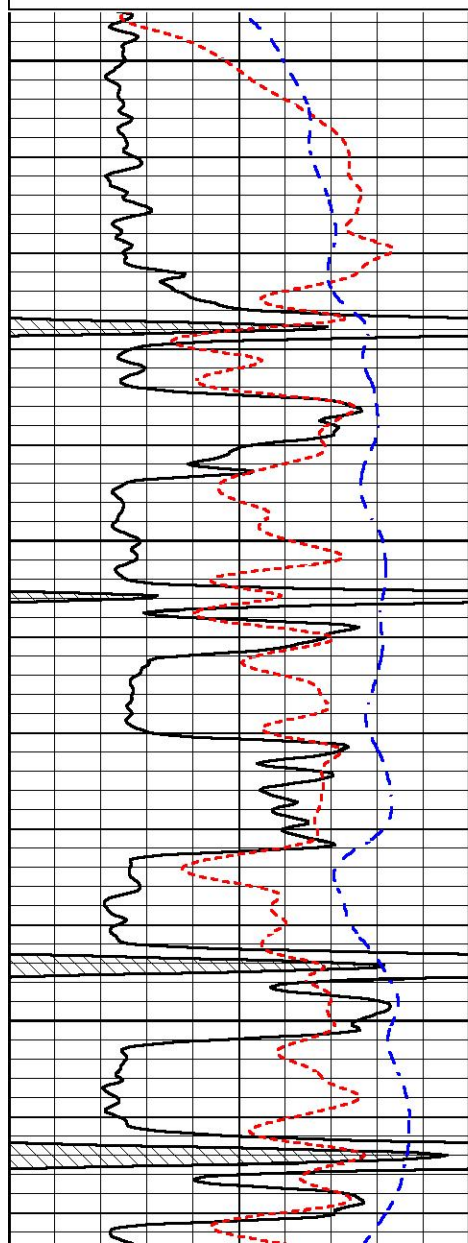
REPEAT SECTION

REPEAT PASS

Database File satchell_hobbs a #7-34.db
Dataset Pathname StkMI/pass2.1
Presentation Format _dil
Dataset Creation Thu Oct 05 21:31:58 2023
Charted by Depth in Feet scaled 1:240

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

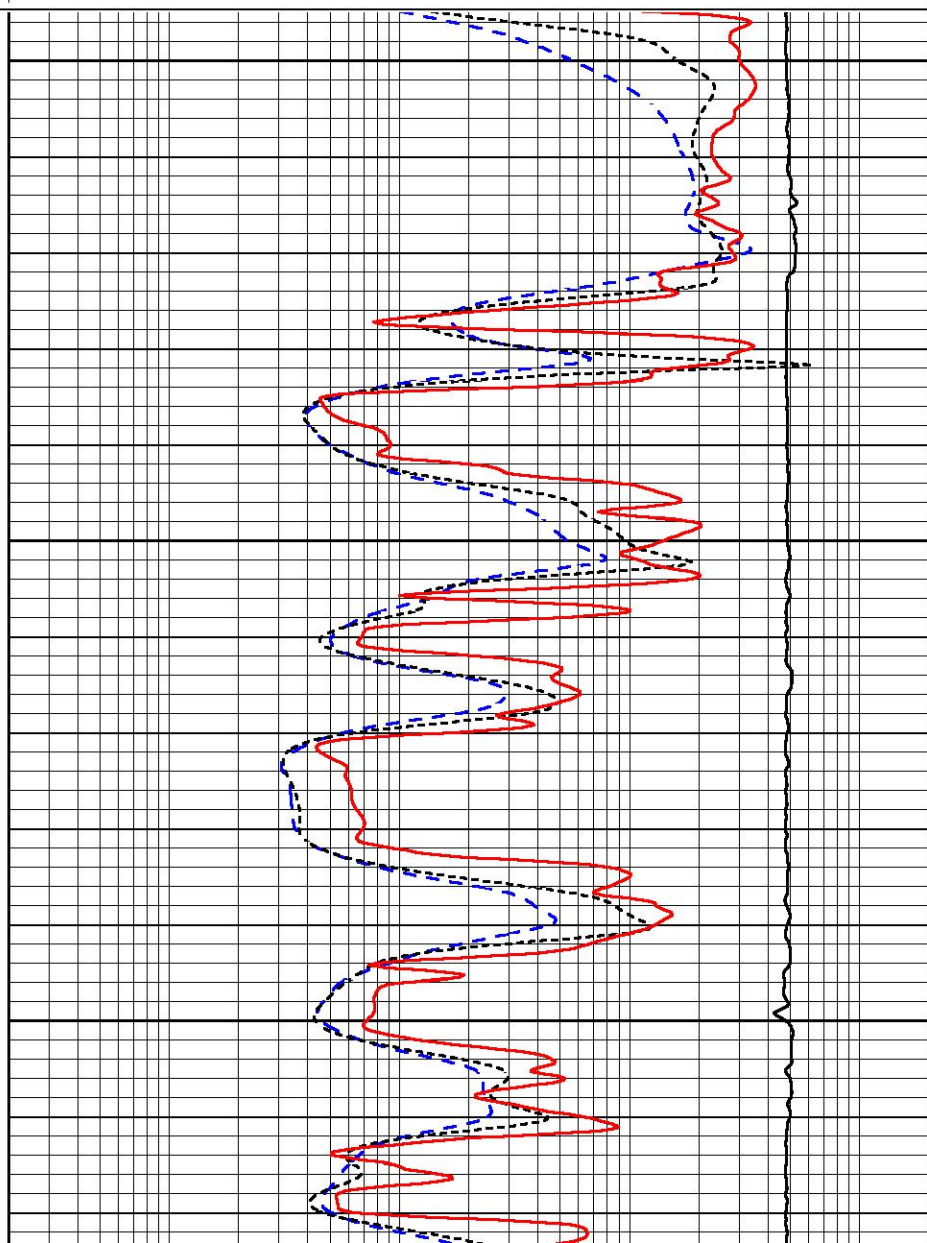
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

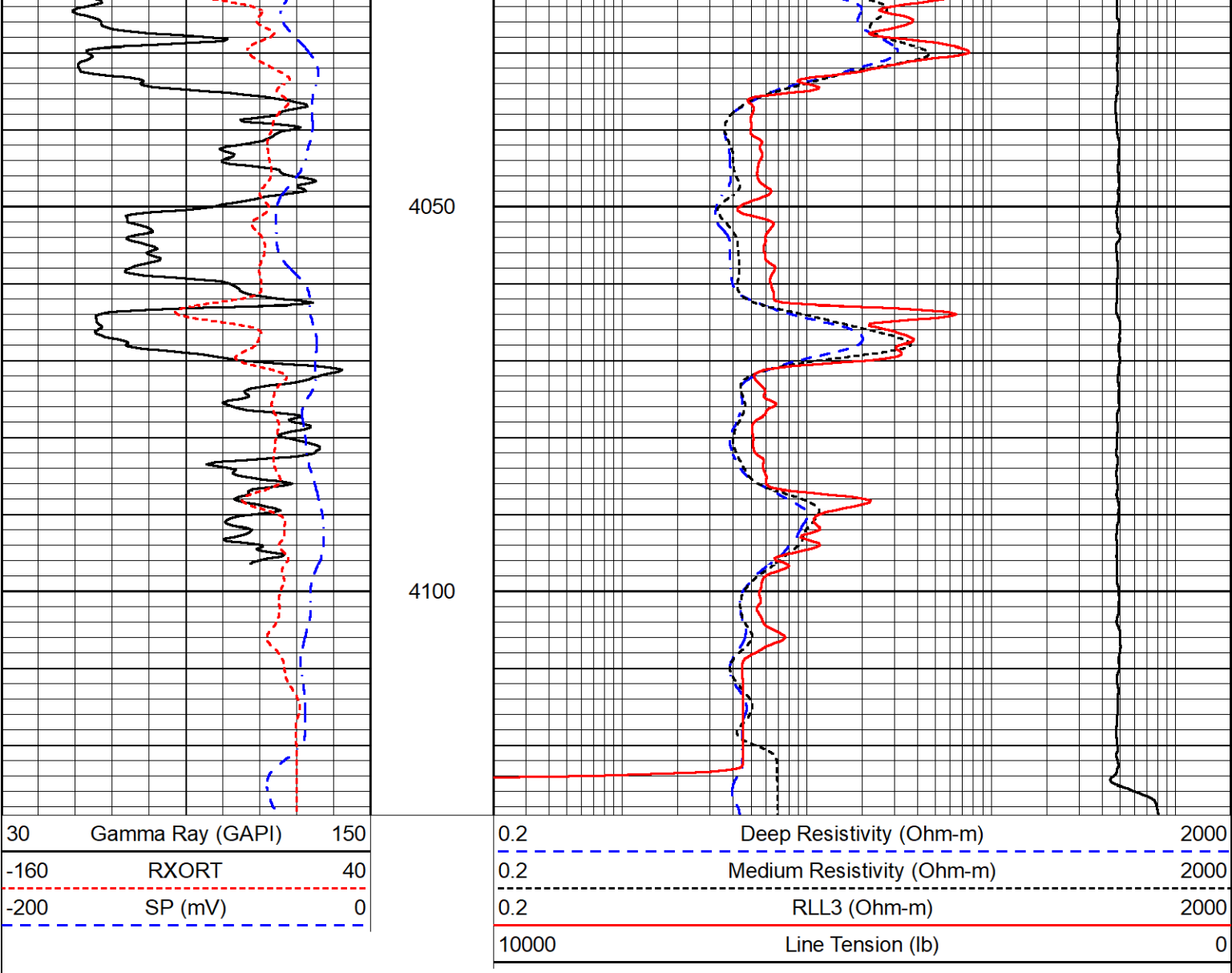


3900

3950

4000





Calibration Report							
Database File	satchell_hobbs a #7-34.db						
Dataset Pathname	StkMI/pass3.1						
Dataset Creation	Thu Oct 05 22:12:48 2023						
Dual Induction Calibration Report							
Serial-Model:				507-M&W			
Surface Cal Performed:							
		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
Microlog Calibration Report							
Serial-Model:				401-PSIML			
Performed:				Mon Sep 25 22:02:56 2023			
		Readings		References		Results	
	Zero	Cal		Zero	Cal	m	b

Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	25500.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	23000.0000	-0.7500
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-138.8800

LITHODENSITY Calibration Report

Serial Number:		704-10						
Tool Model:		STEP LITHO						
Performed:		Fri Jun 23 15:26:01 2023						
Source:								
	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8
Background:								
SS:	51	54	202	252	21	70	42	1 cps
LS:	85	96	363	462	53	147	97	3 cps
Aluminum:								
SS:	870	1018	2321	2004	37	71	43	2 cps
LS:	1057	1828	3315	1570	61	147	91	5 cps
Magnesium:								
SS:	1459	1669	3829	2914	42	70	46	3 cps
LS:	4526	7550	13047	4982	98	135	93	13 cps
Aluminum+Iron:								
SS:	553	719	1939	1750	37	72	45	2 cps
LS:	613	1297	2812	1404	60	146	96	4 cps
		Density			PE			
		Actual	Calibrated		Actual	Calibrated	Quality	
Background:								
SS:							0.245	
LS:							0.205	
Aluminum:								
SS:		2.6000	2.6000	g/cc			0.240	
LS:		2.6000	2.6000	g/cc			0.236	
Magnesium:								
SS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.210	
LS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.184	
Aluminum+Iron:								
SS:						6.1800	0.228	
LS:						6.1800	0.206	

Before Survey								
Performed:		Wed Feb 9 13:15:42 2022						
SS:	0	0	0	0	0	0	0	cps
LS:	1370	1580	3705	3037	48	80	50	4 cps
After Survey								
Performed:		Wed Feb 9 13:16:02 2022						
SS:	0	0	0	0	0	0	0	cps
LS:	1400	1600	3800	3100	60	100	70	6 cps

Caliper:		Reference:		Reading:	
Small Ring:		6.0	in	0.2	
Large Ring:		15.0	in	0.8	
Gain:		16.161			
Offset:		1.080			

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
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:		103				
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:		0.5000		GAPI/cps		



MIDWEST WIRELINE

Company	Satchell Creek Petroleum LLC
Well	Hobbs A #7-34
Field	Unnamed
County	Graham
State	Kansas