

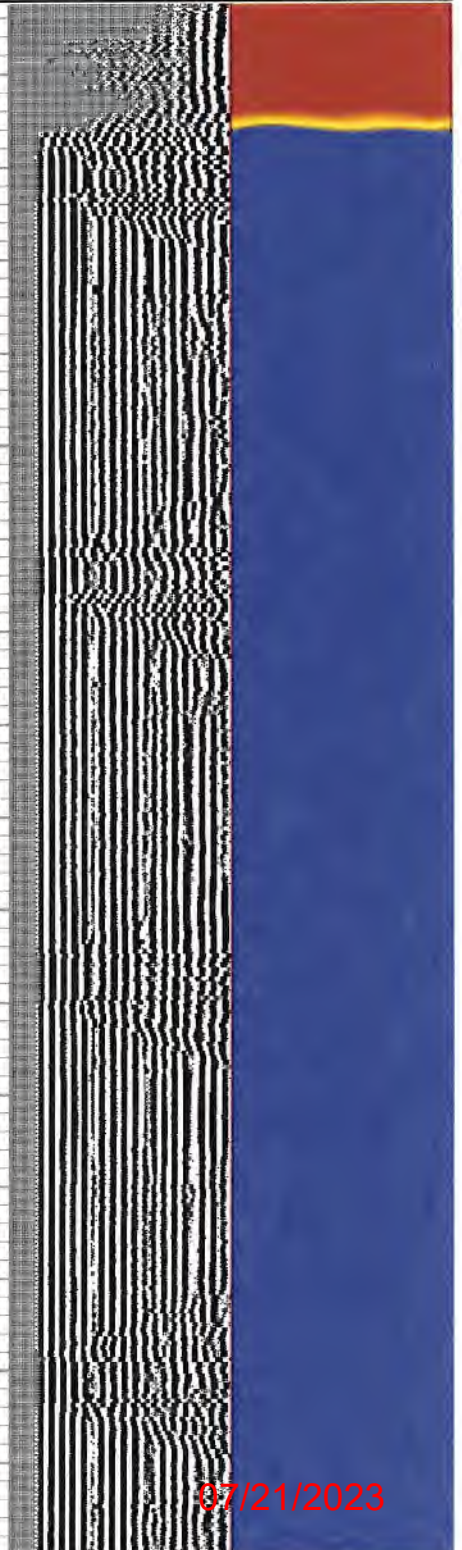
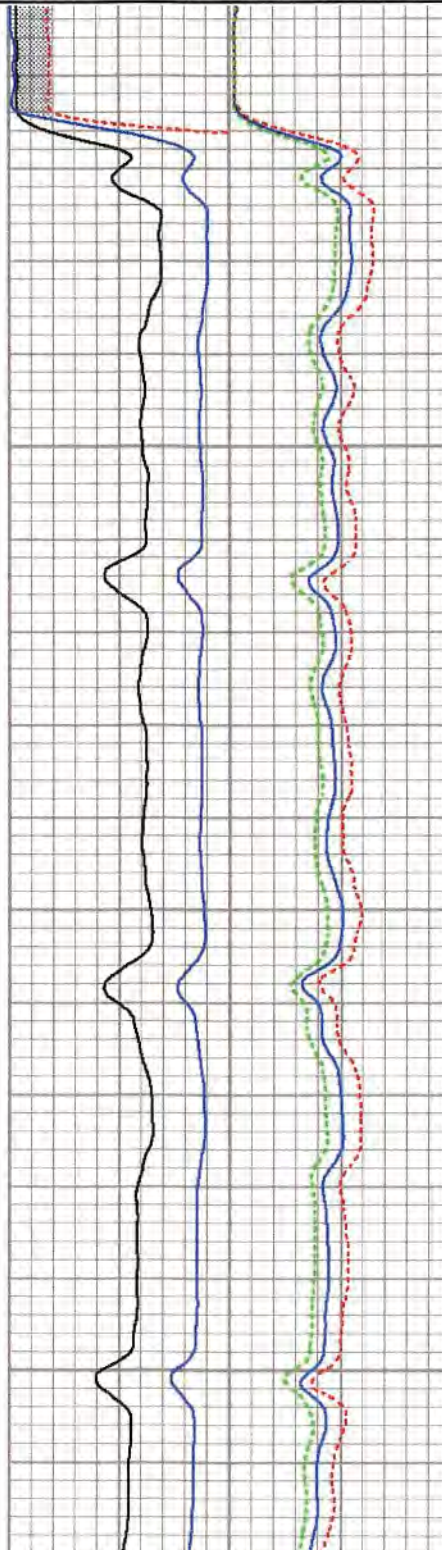
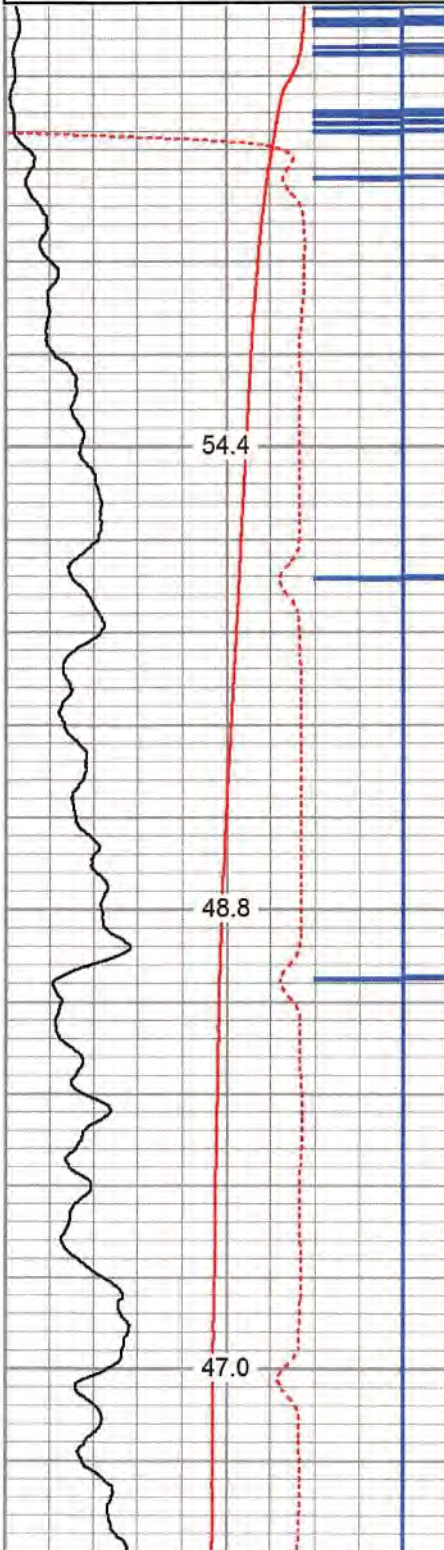
Database File e:\antero 2020\8_25_20_antero_lorainunit_2h.db
 Dataset Pathname pass6
 Presentation Format antero
 Dataset Creation Tue Aug 25 18:14:52 2020
 Charted by Depth in Feet scaled 1:240

280	Travel Time (usec)	180
9	Casing Collar	-1
0	Gamma Ray	180
0	TEMP (degF)	100
180	GR	360

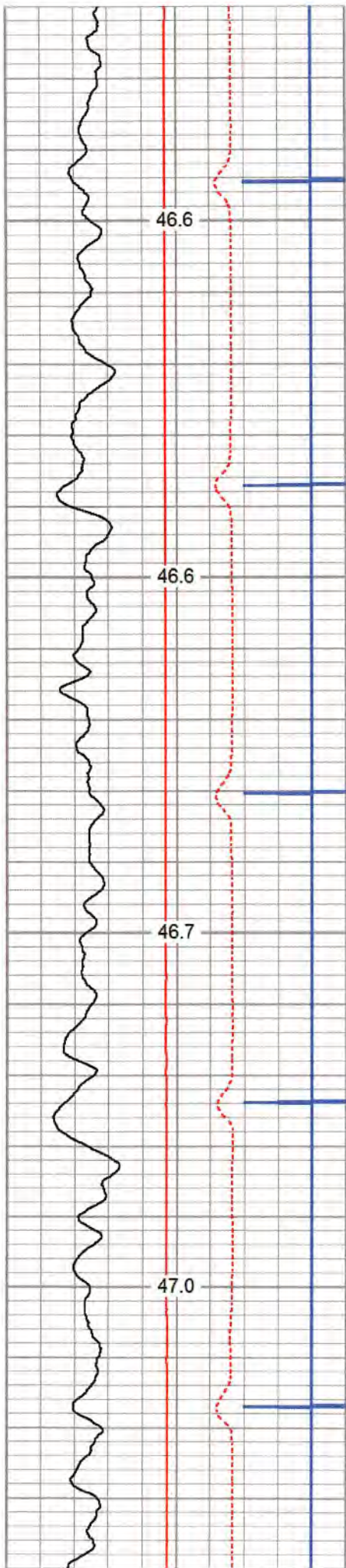
Amplitude		Sector Amp AVG
0	(mV)	100
Amp X5		Sector Amp MAX
0	(mV)	20
1	BONDIX	0

Sector Amp MIN		VDL	1	Sector Map	12
		(usec)	200		1200

TEMP
(degF)



07/21/2023

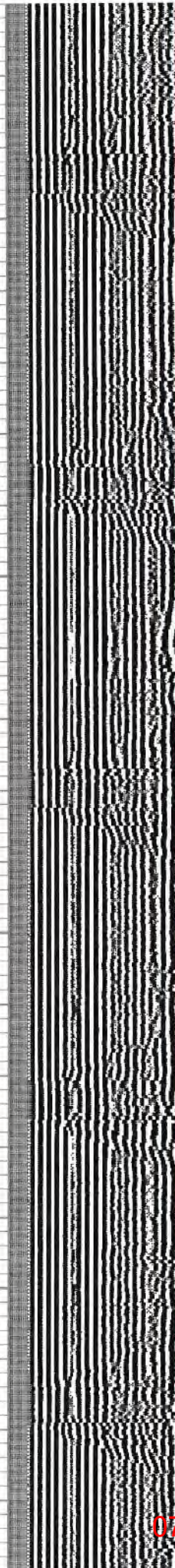
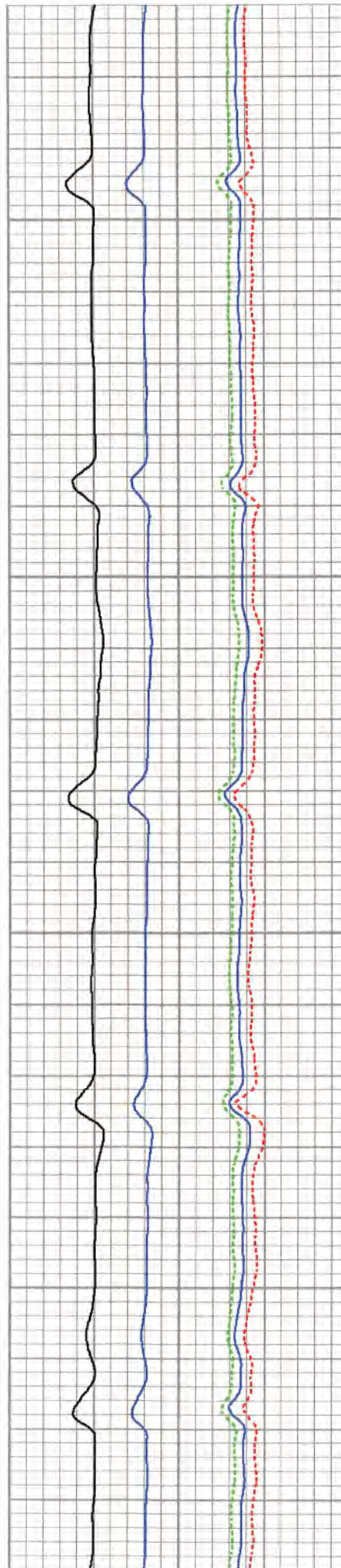


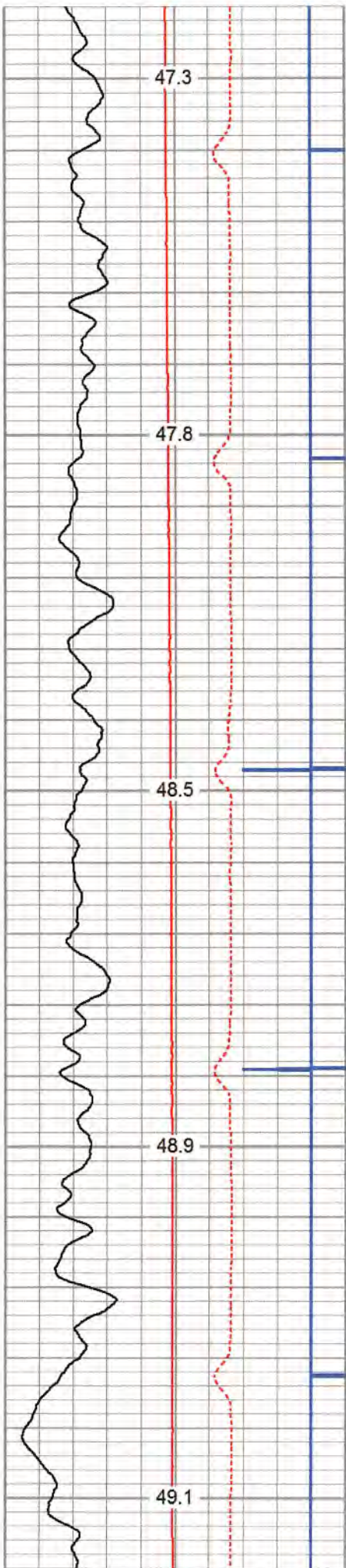
200

250

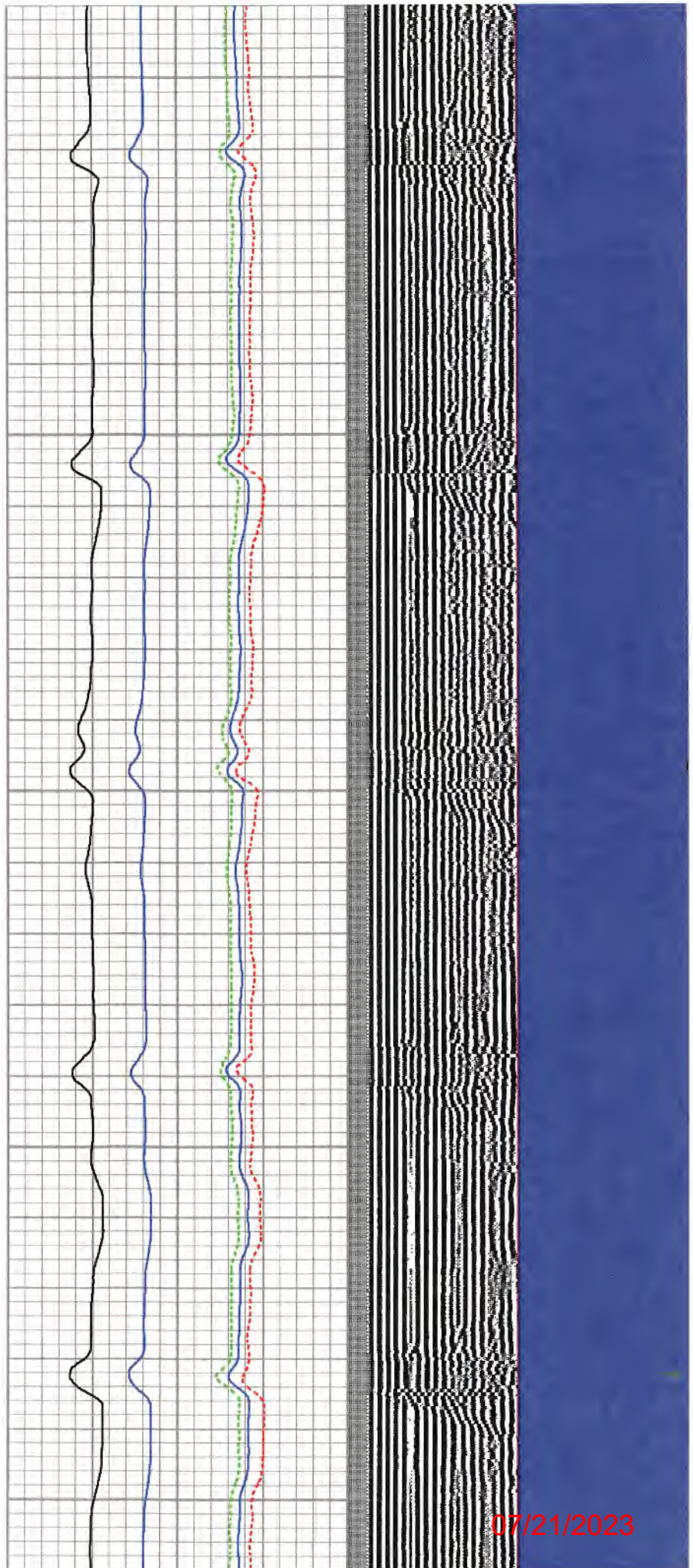
300

350

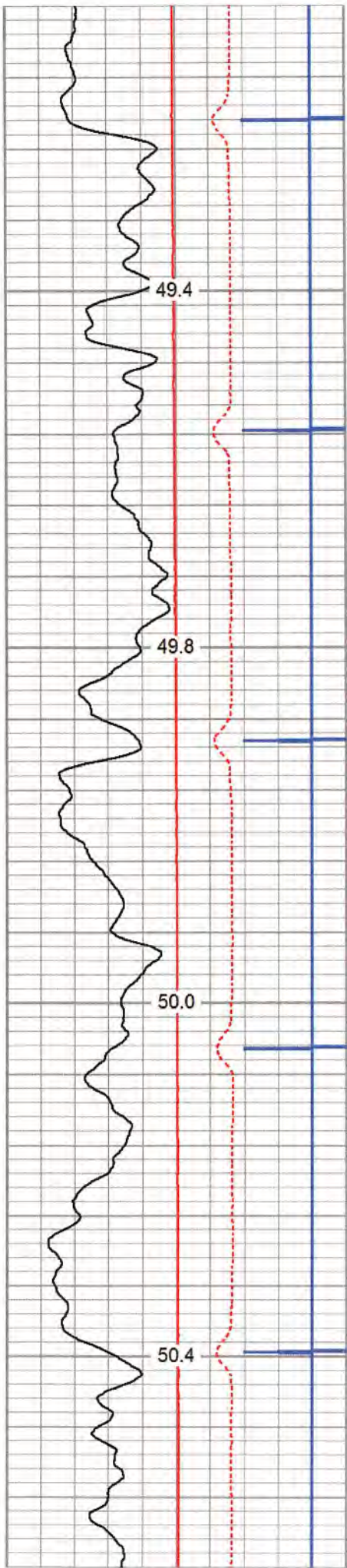




400
450
500
550
600



07/21/2023

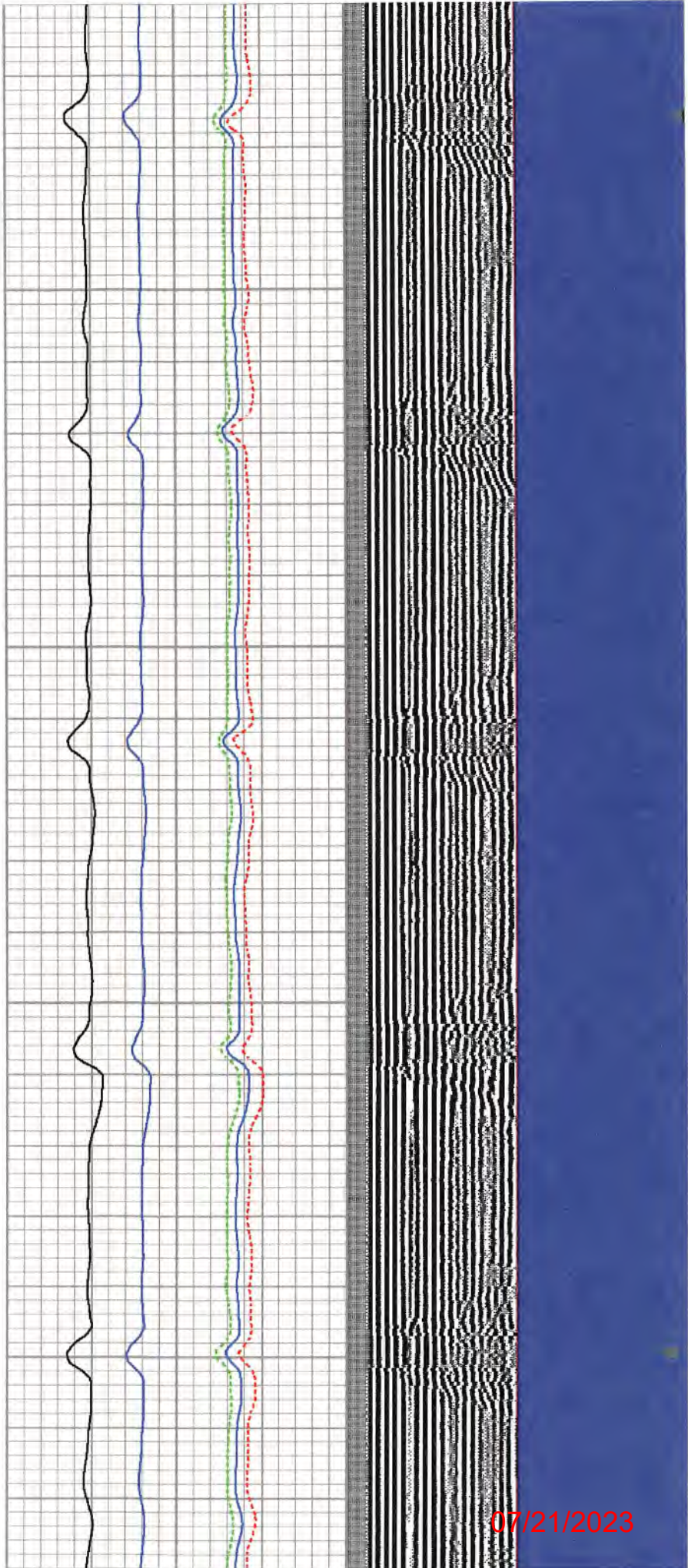


650

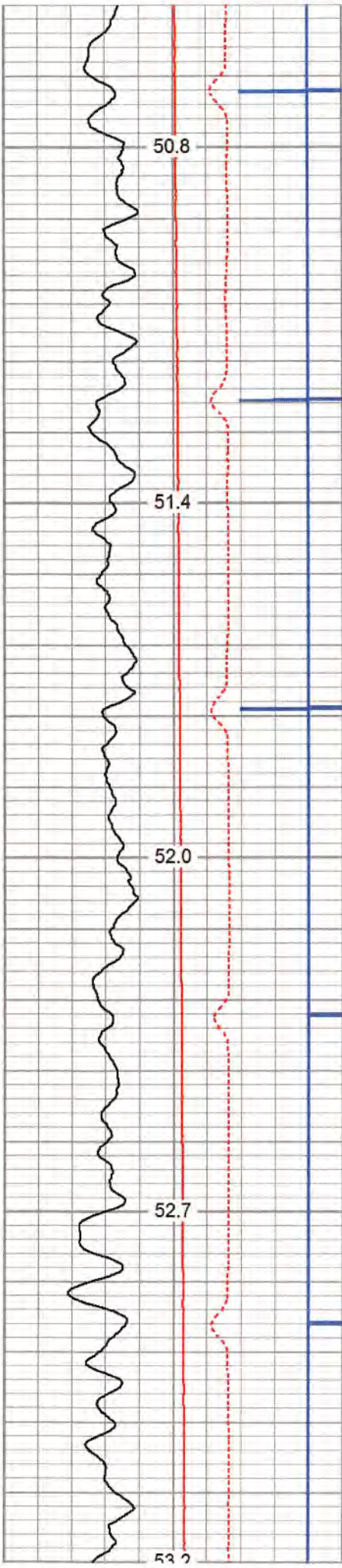
700

750

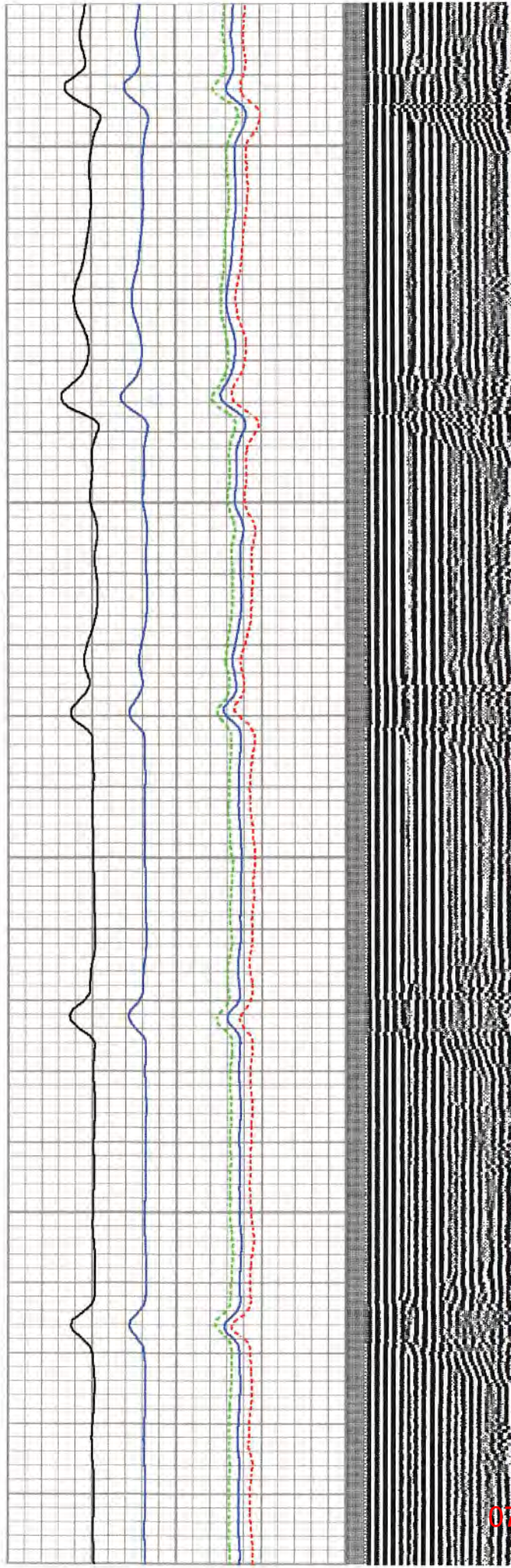
800



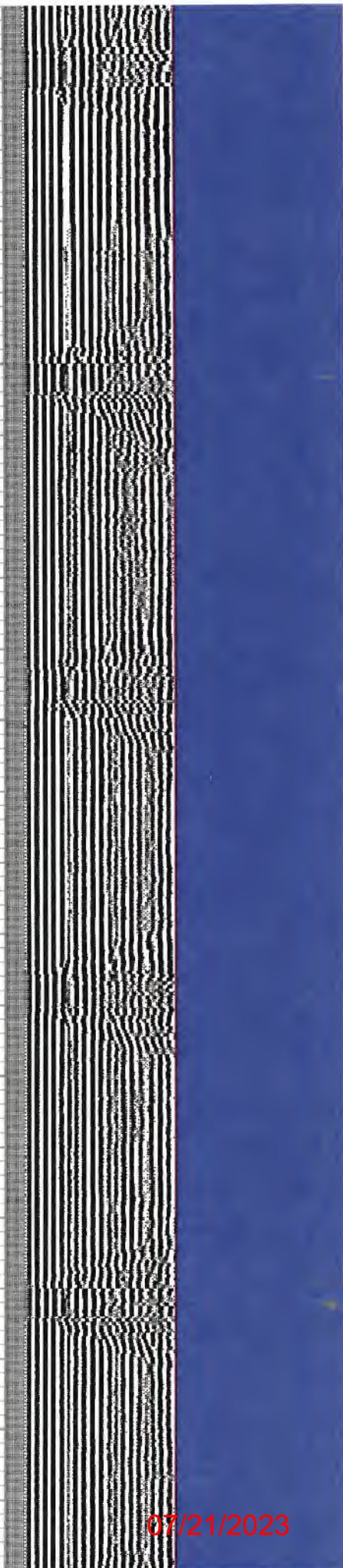
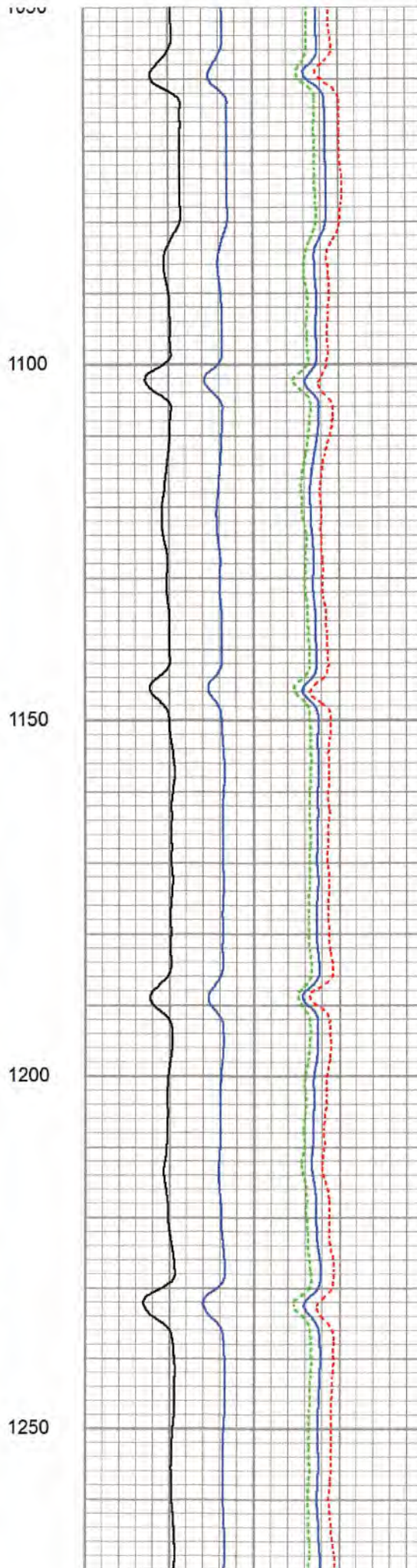
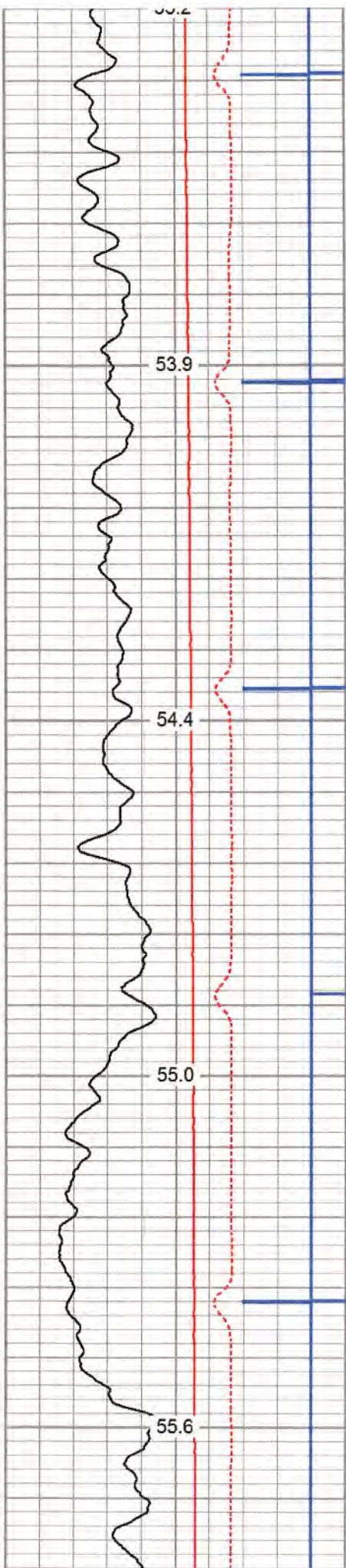
07/21/2023



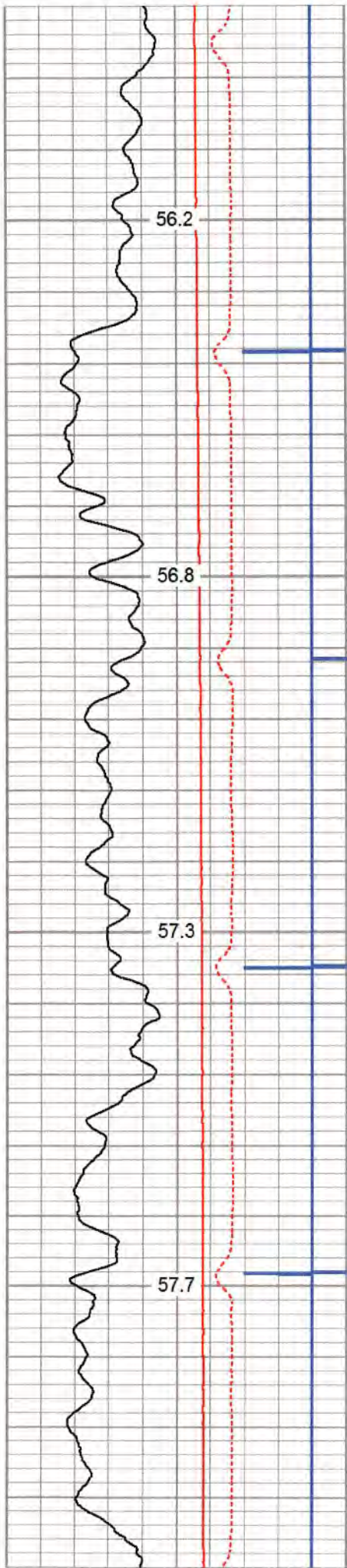
850
900
950
1000
1050



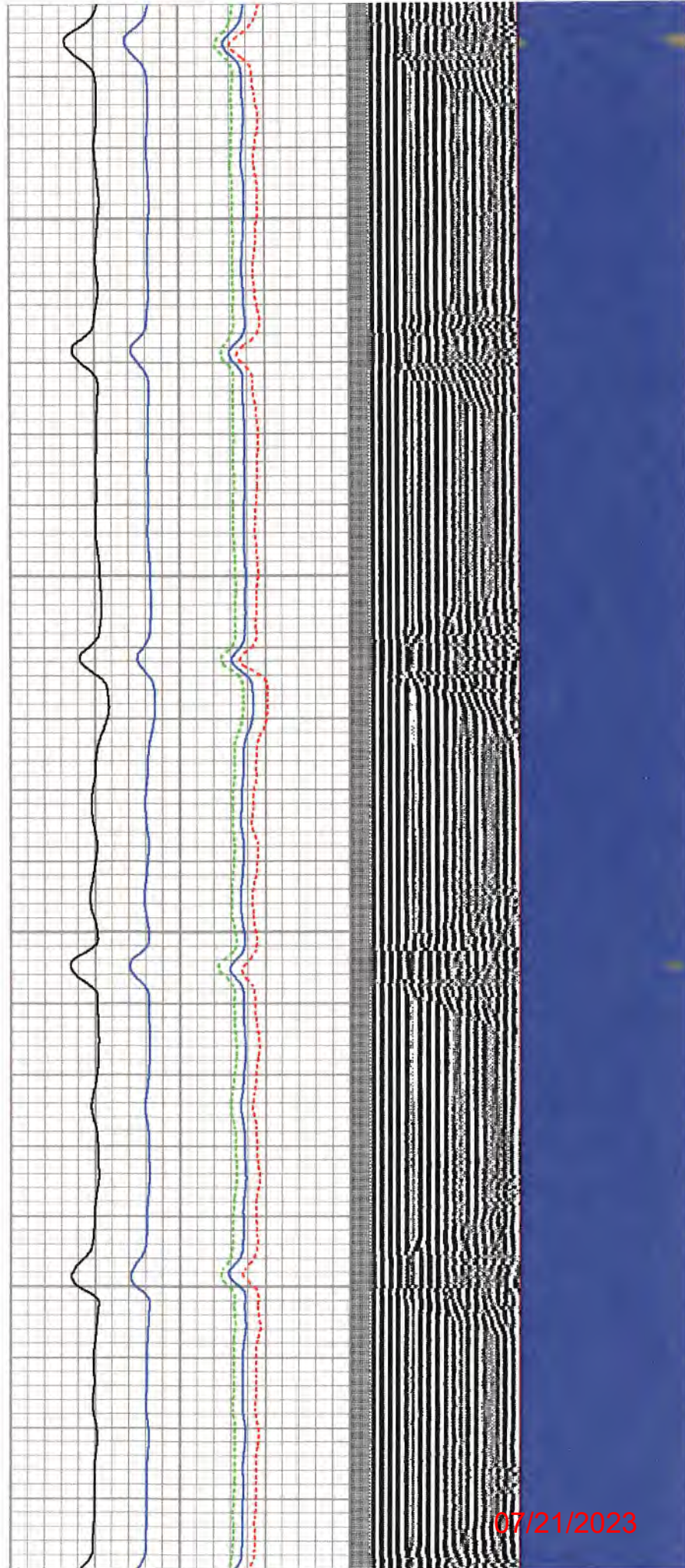
07/21/2023



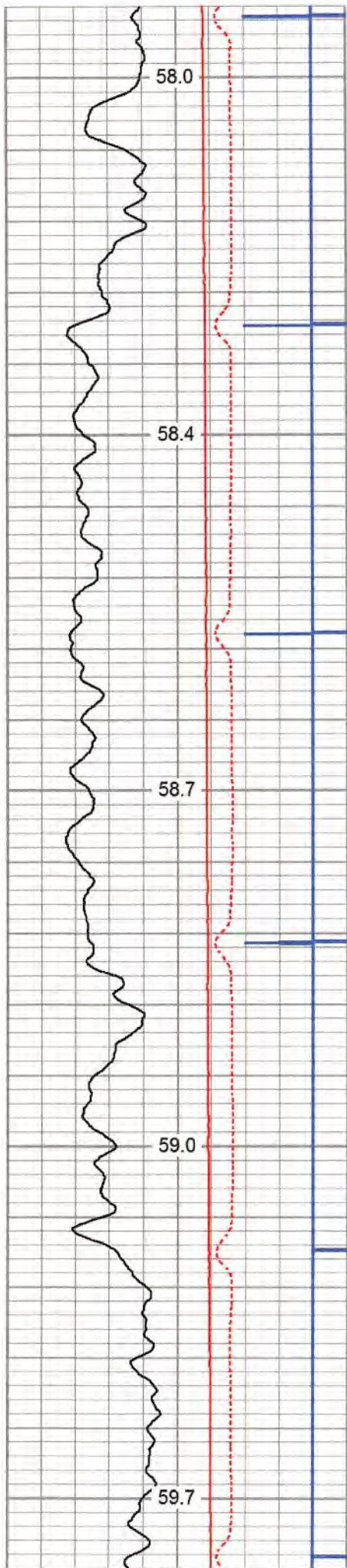
07/21/2023



1300
1350
1400
1450



07/21/2023



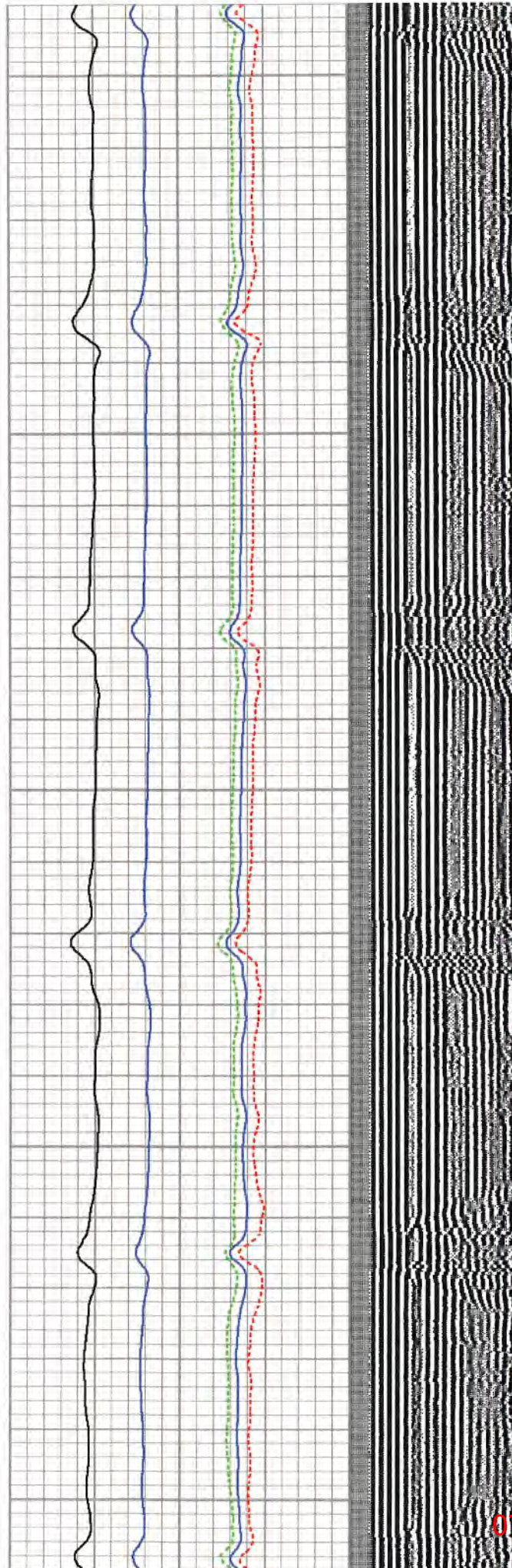
1500

1550

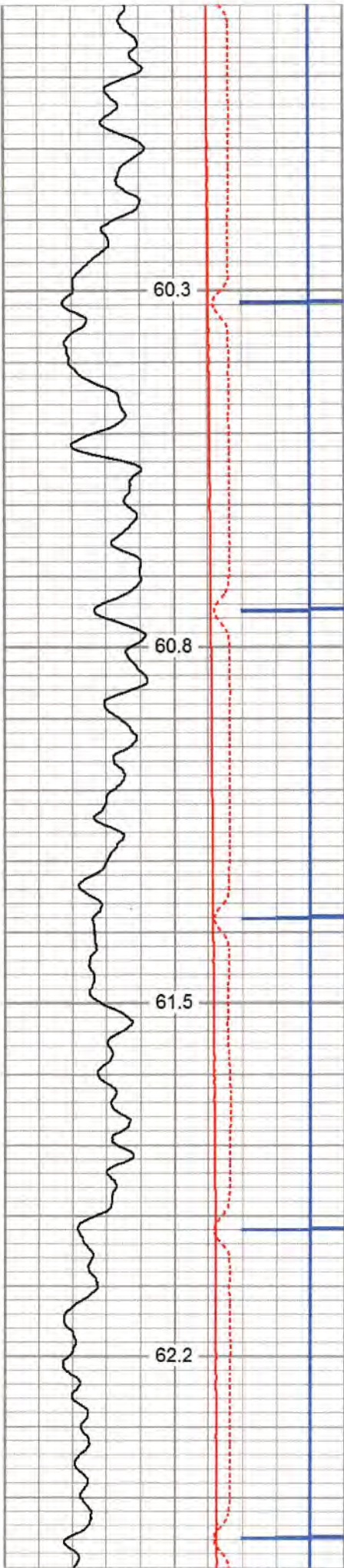
1600

1650

1700



07/21/2023

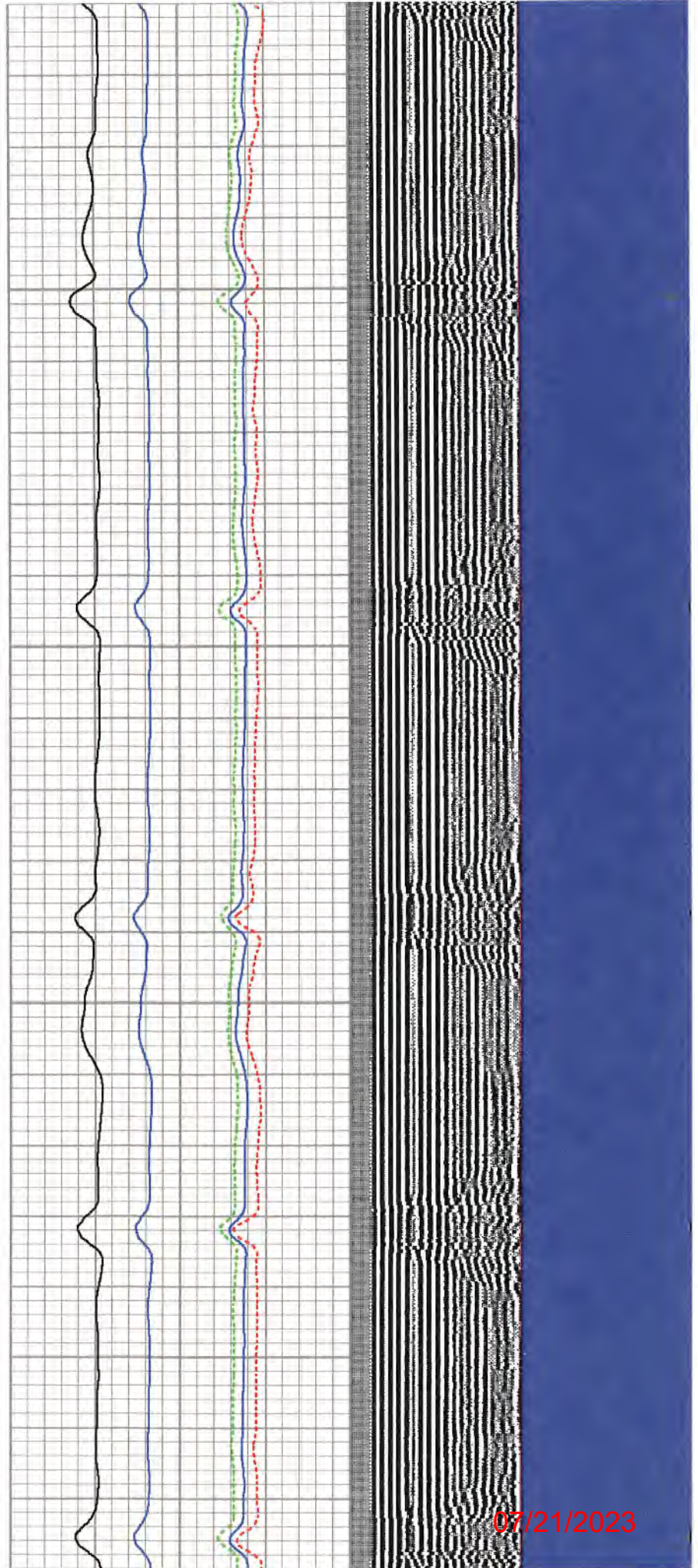


1750

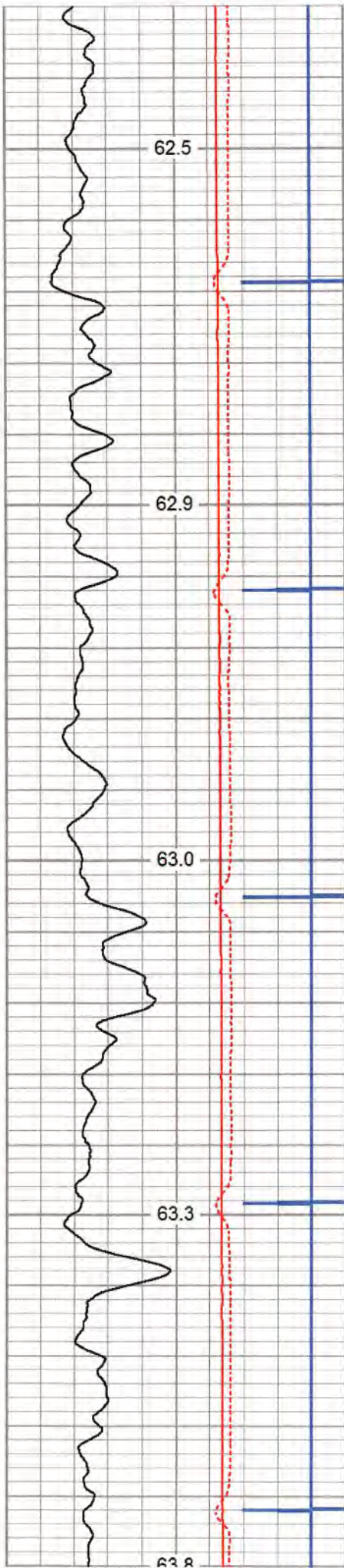
1800

1850

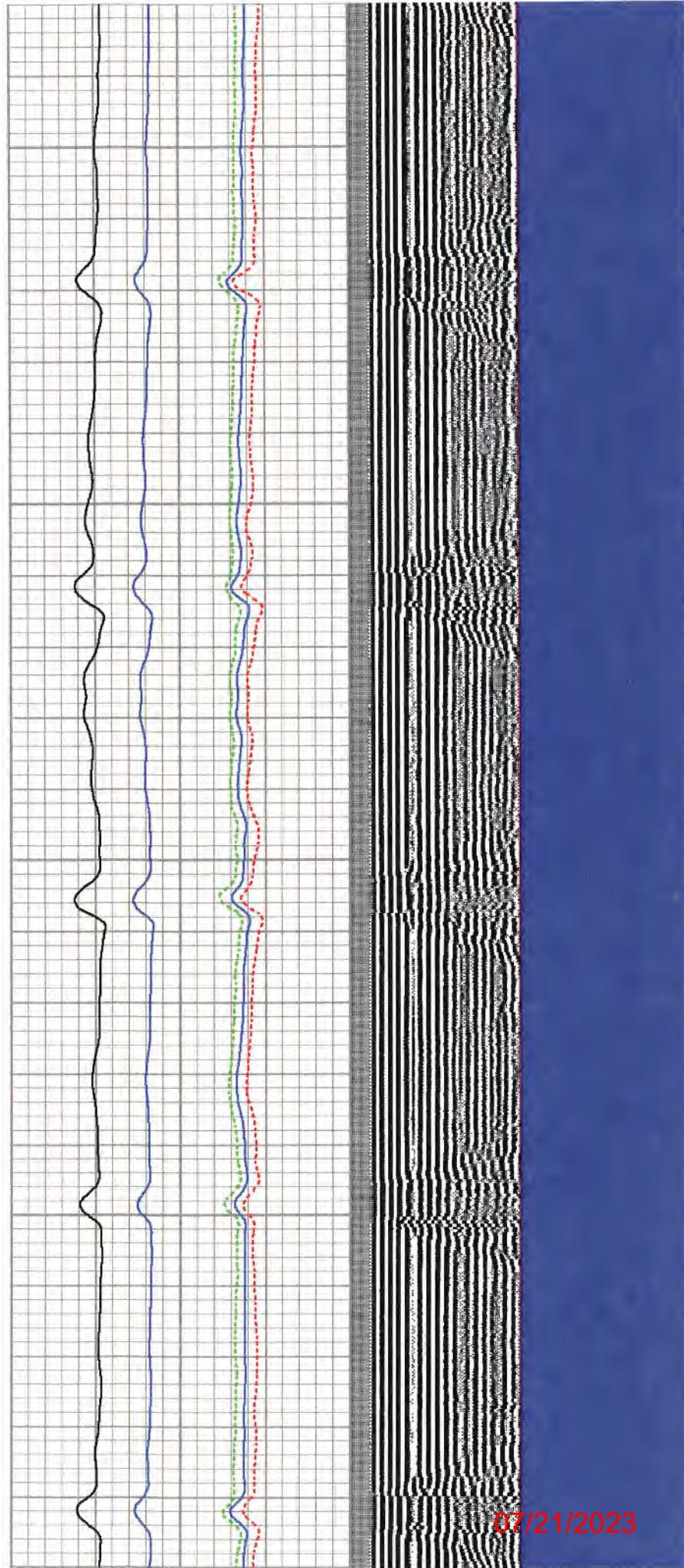
1900



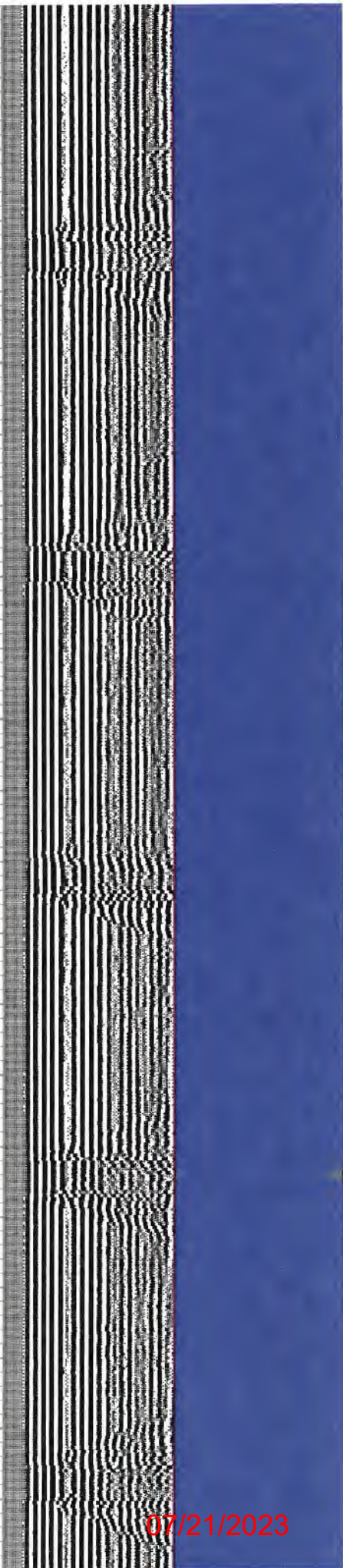
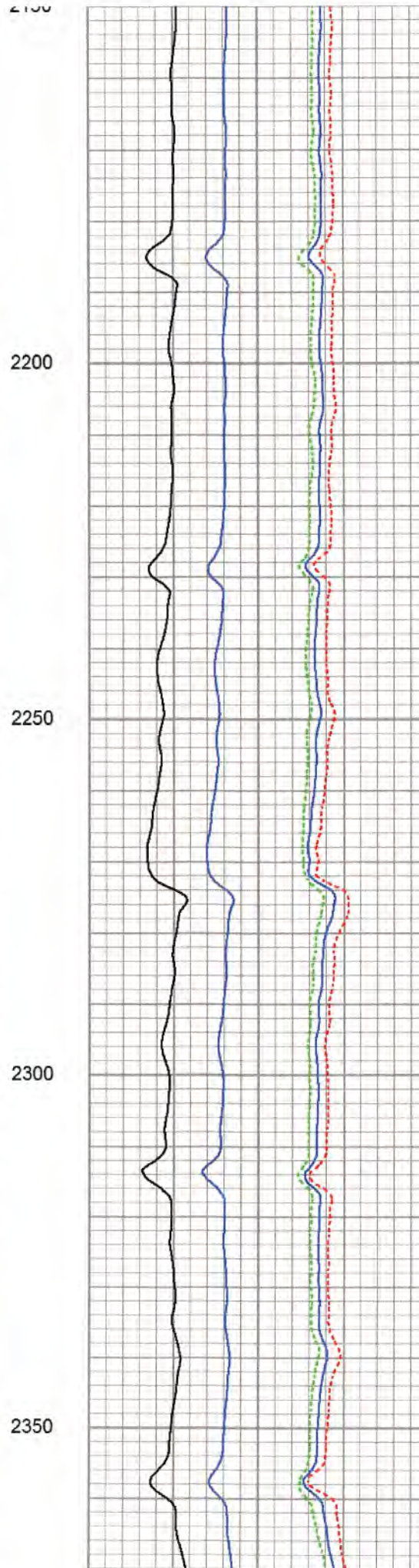
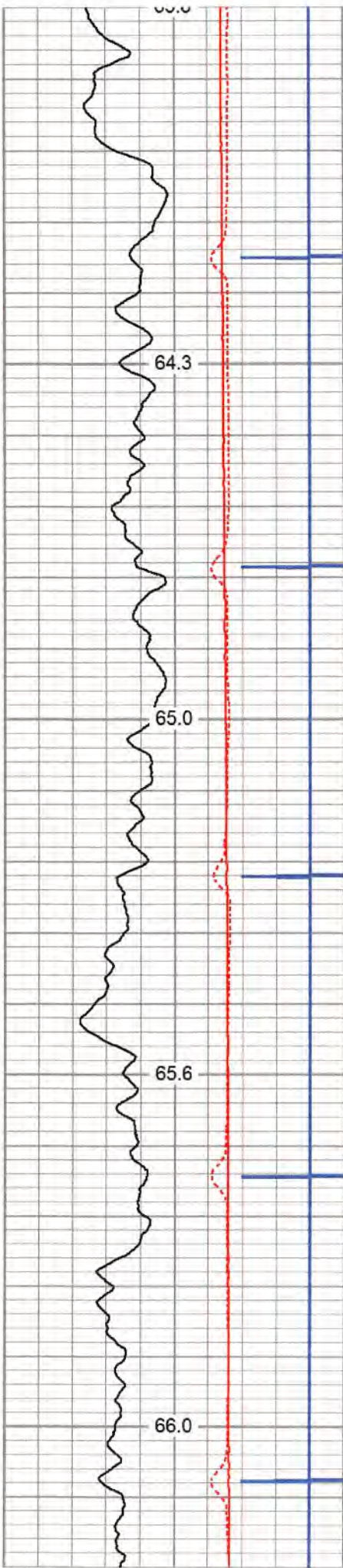
07/21/2023



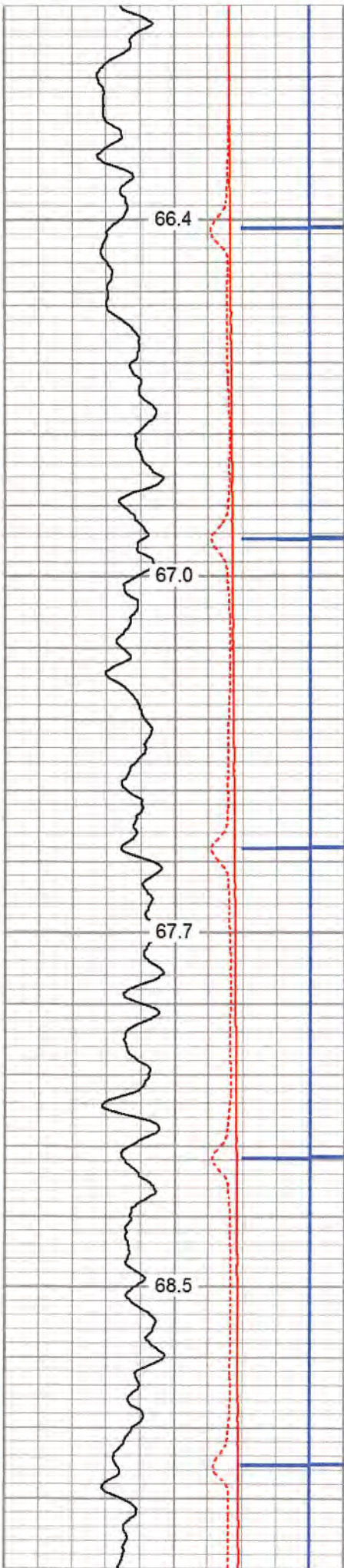
1950
2000
2050
2100
2150



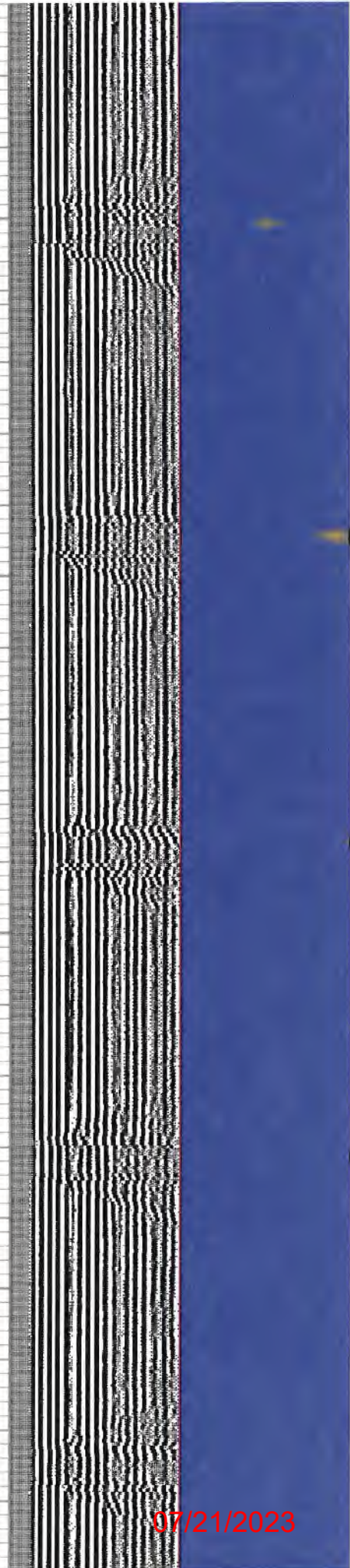
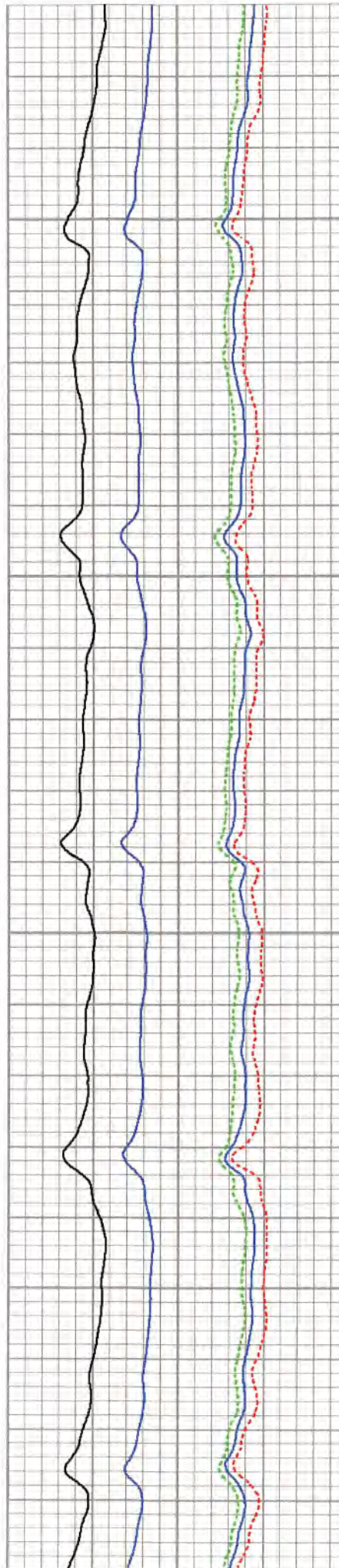
07/21/2023



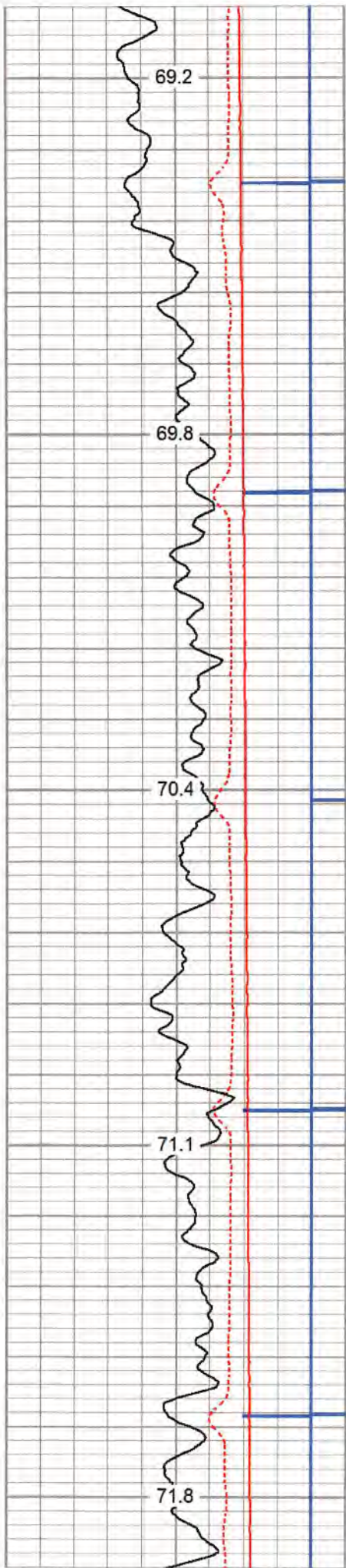
07/21/2023



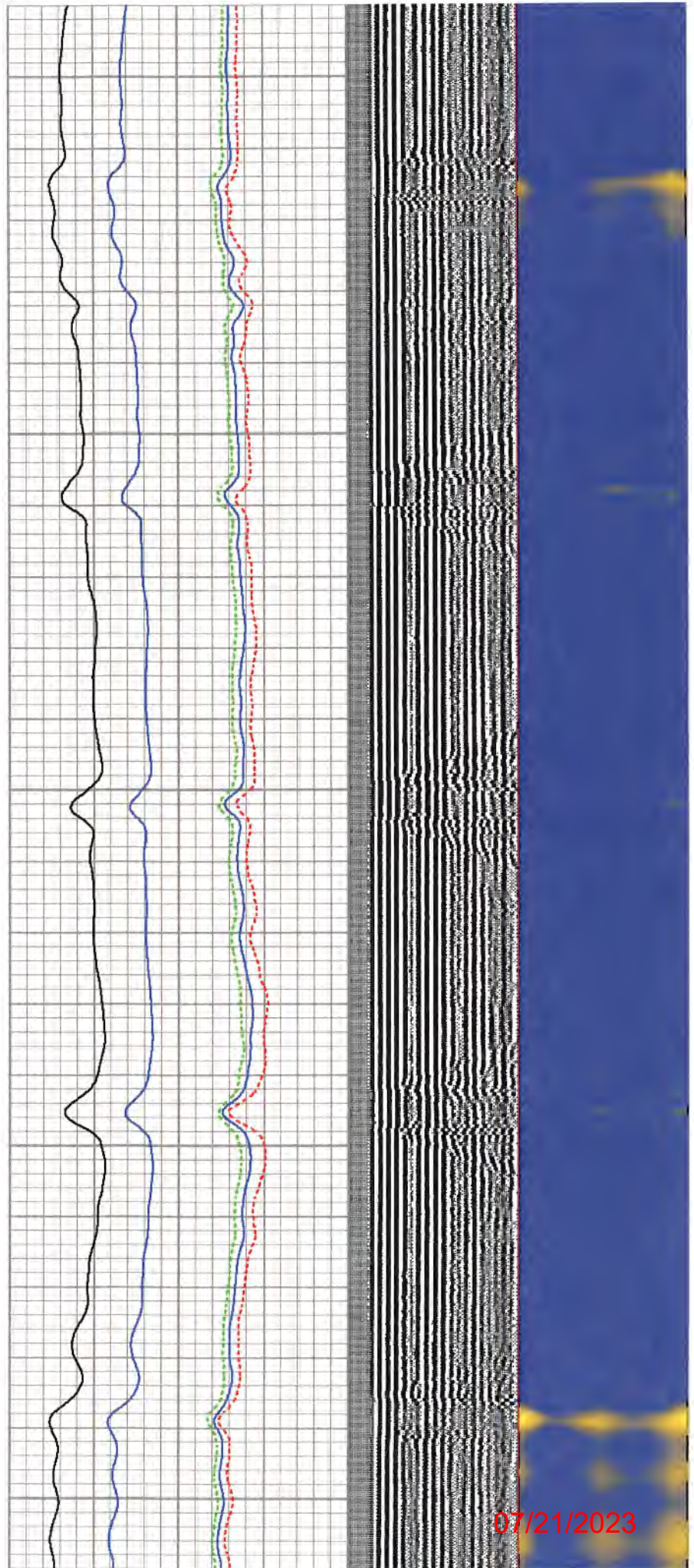
2400
2450
2500
2550



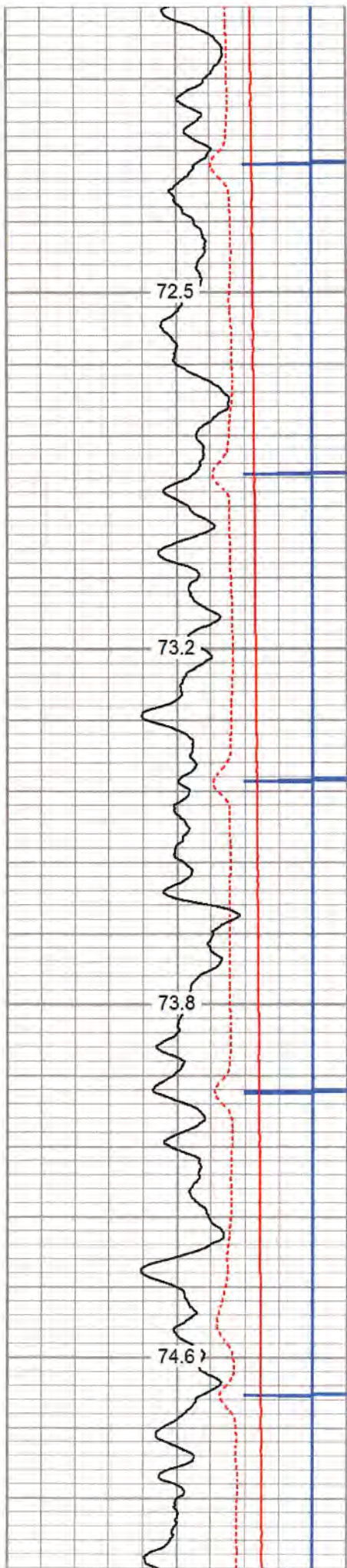
07/21/2023



2600
2650
2700
2750
2800



07/21/2023

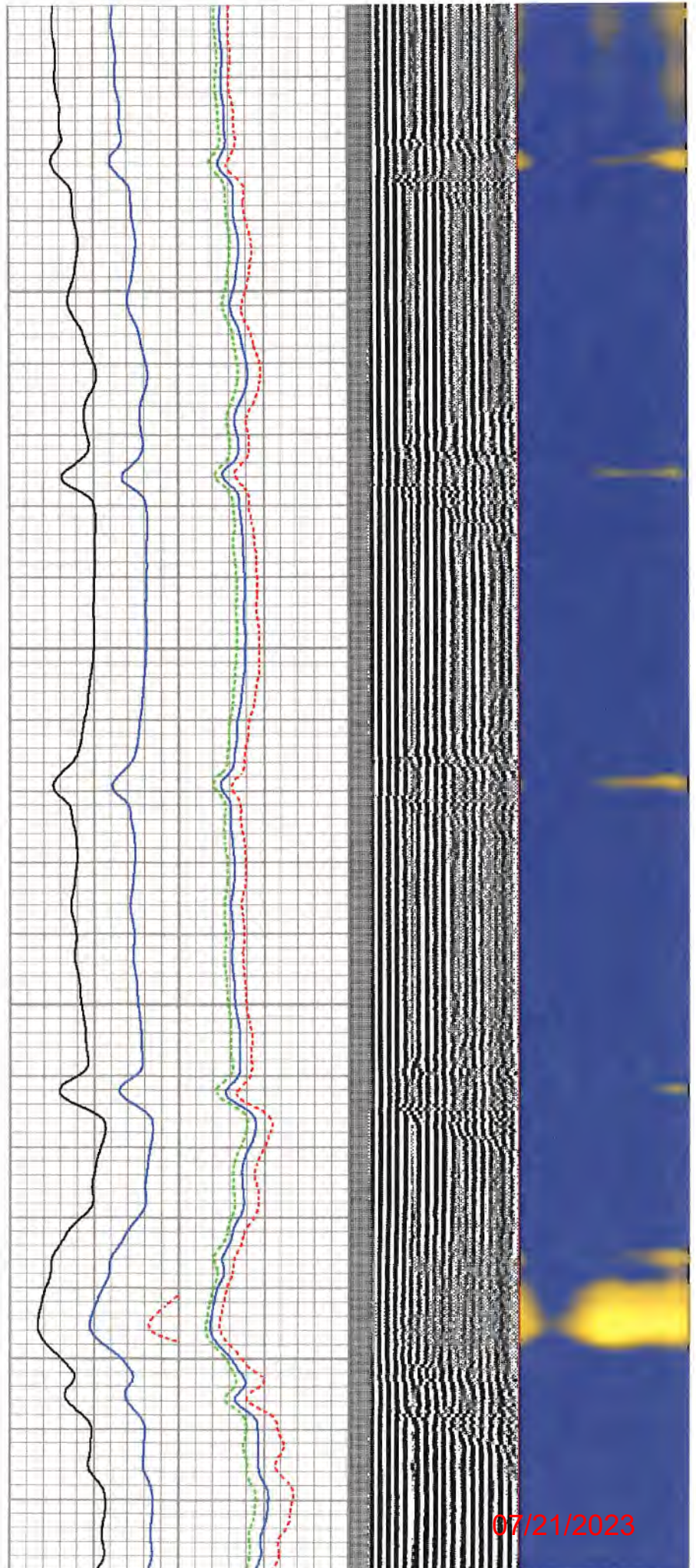


2850

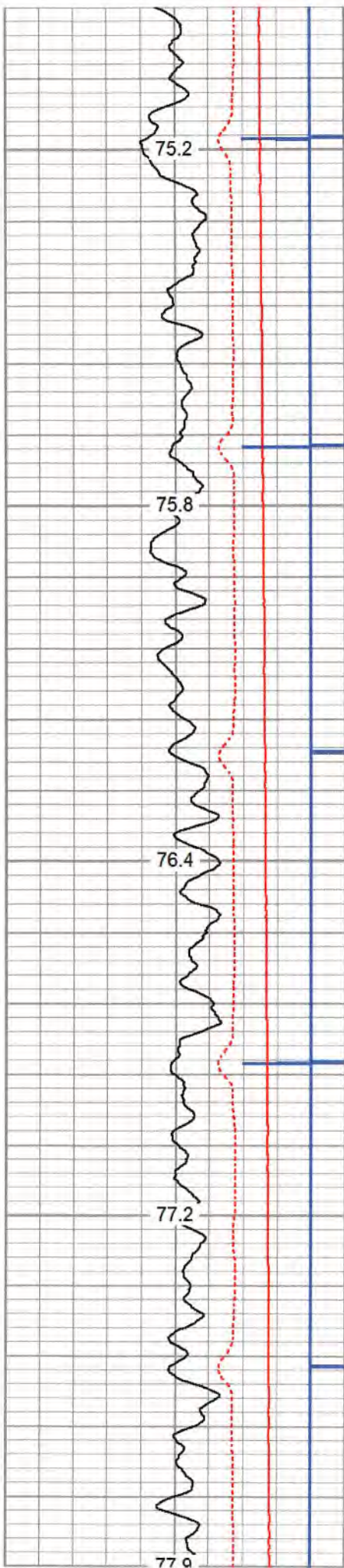
2900

2950

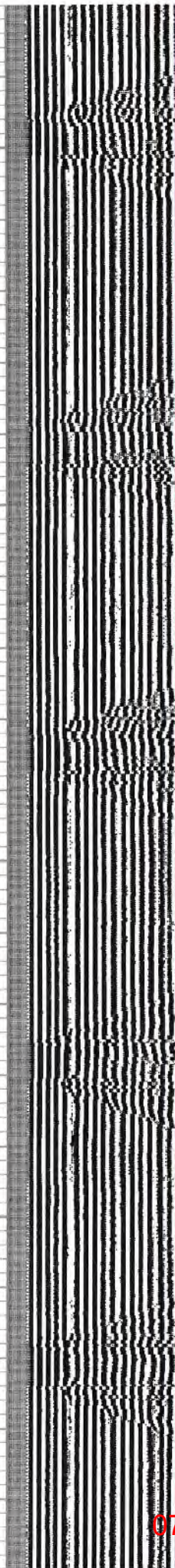
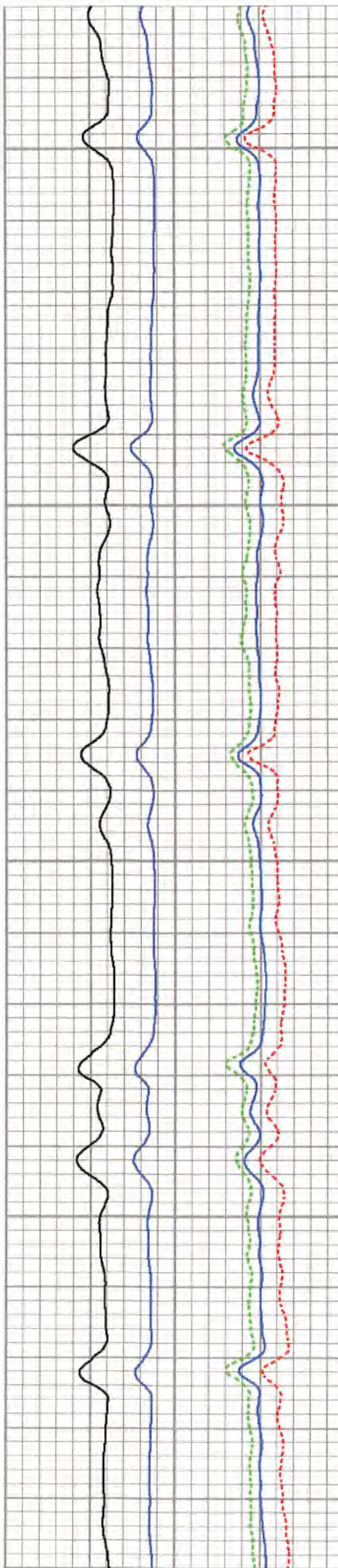
3000



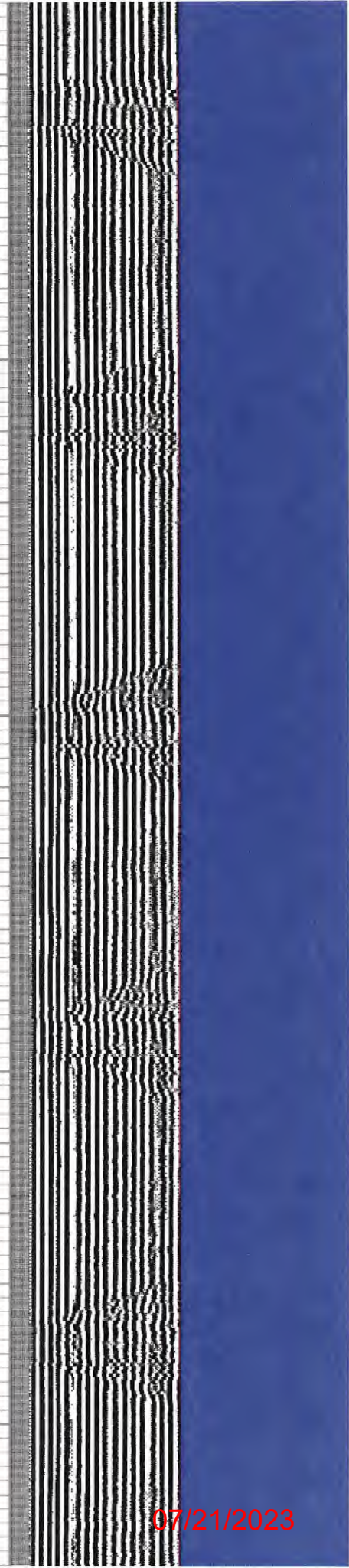
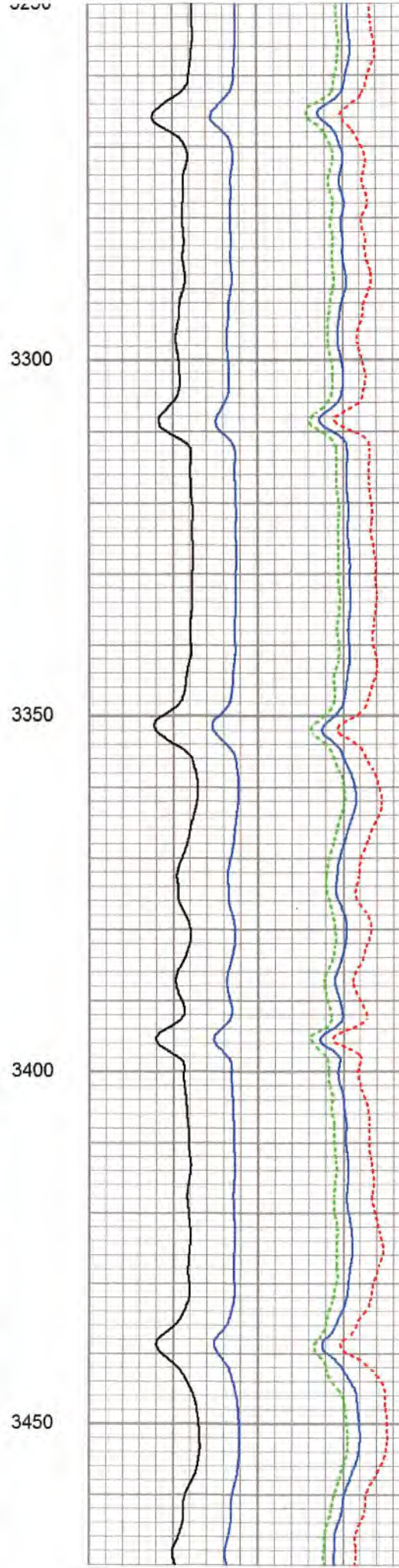
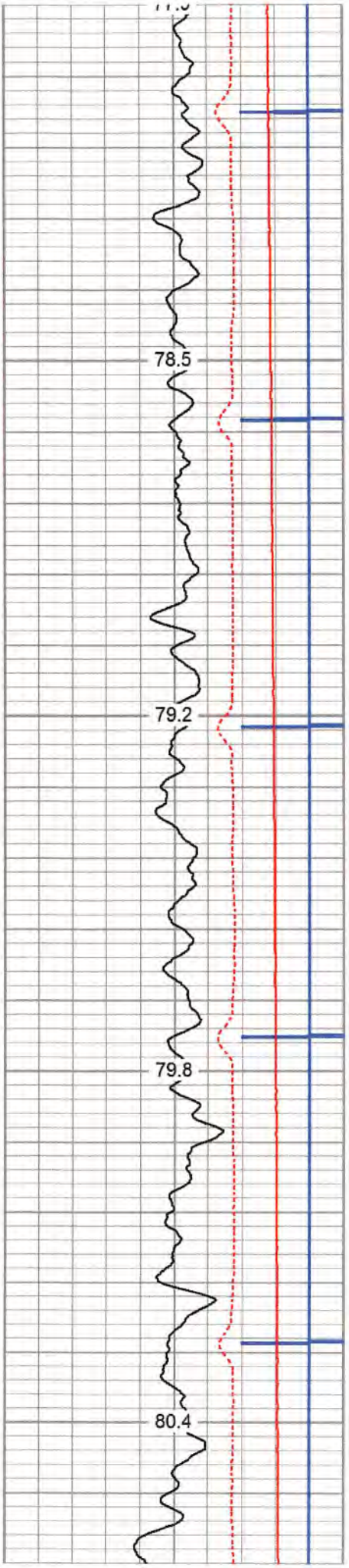
07/21/2023



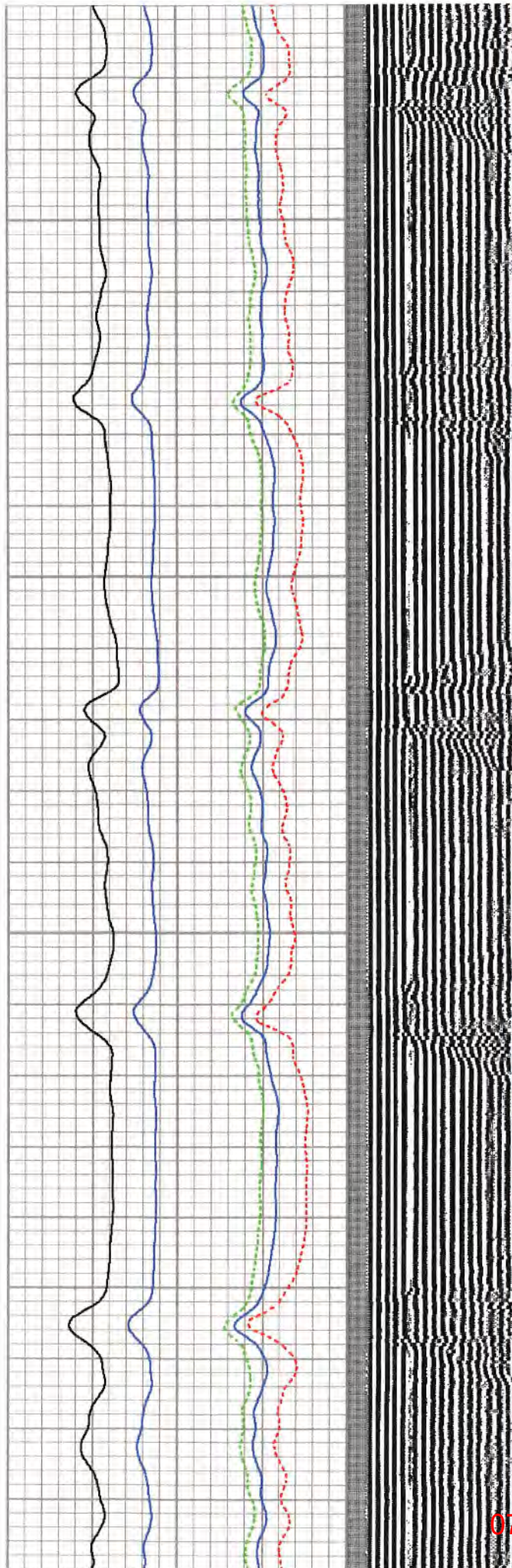
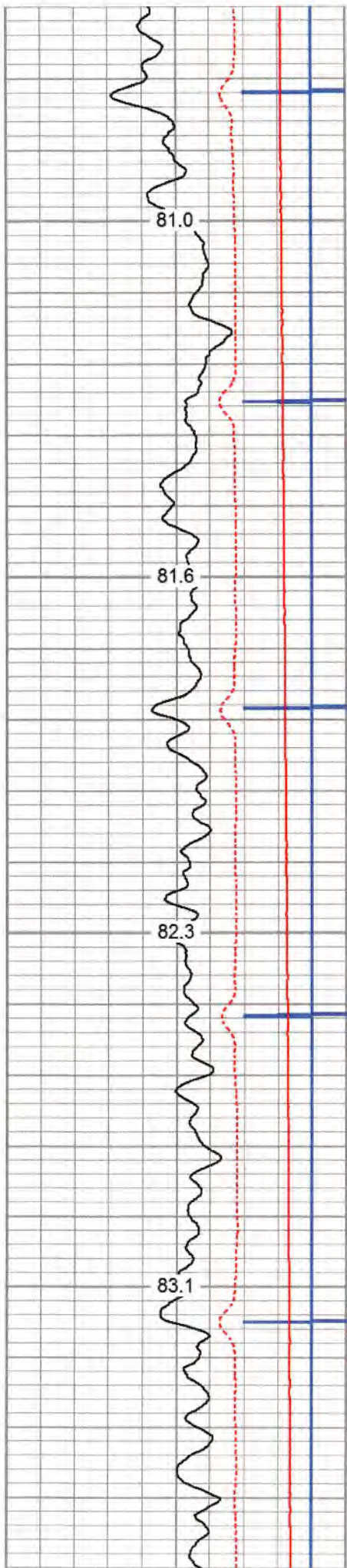
3050
3100
3150
3200
3250

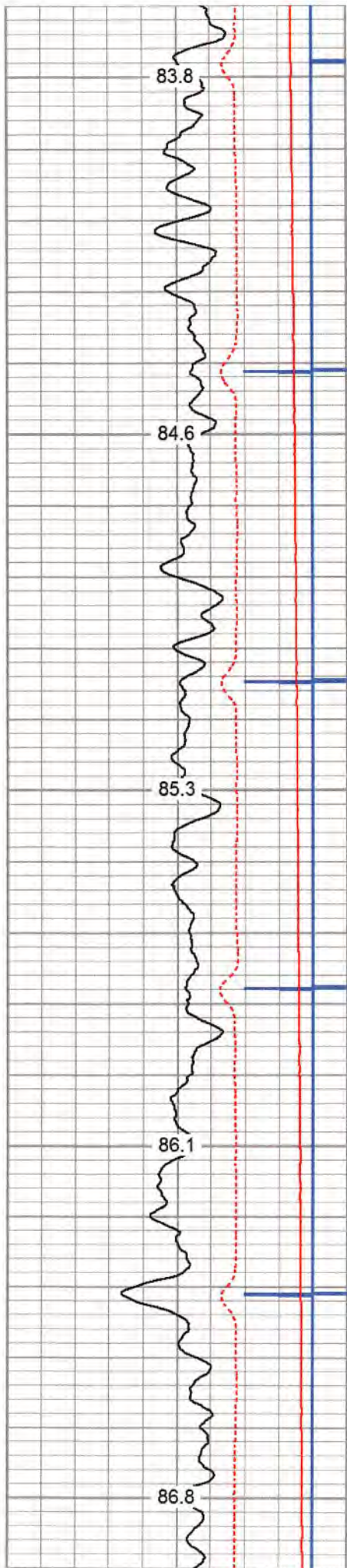


07/21/2023

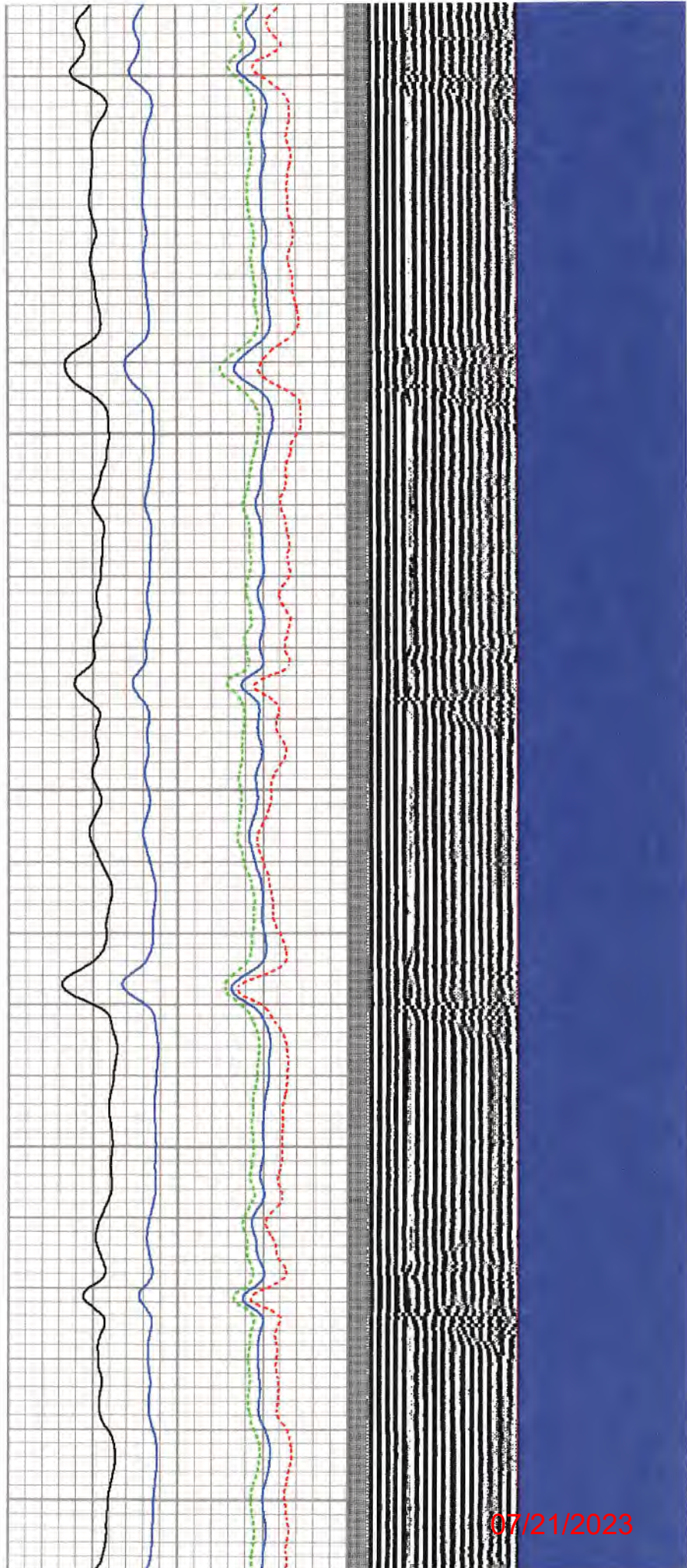


07/21/2023

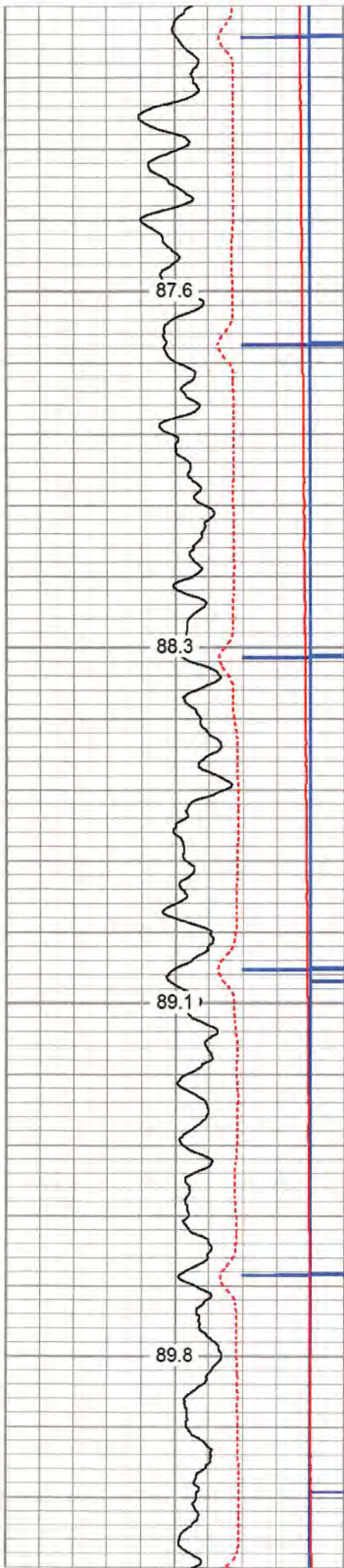




3700
3750
3800
3850
3900



07/21/2023

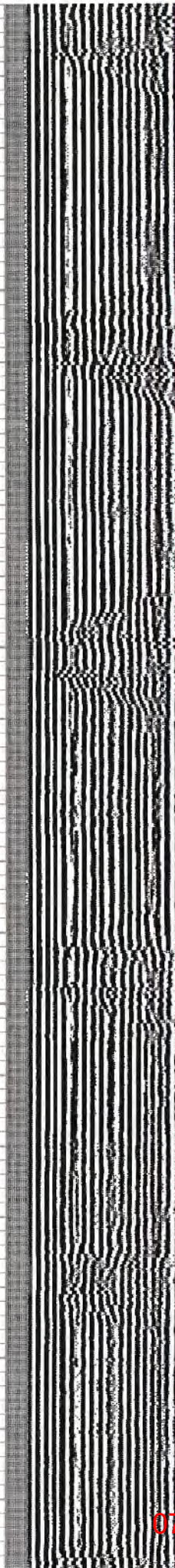
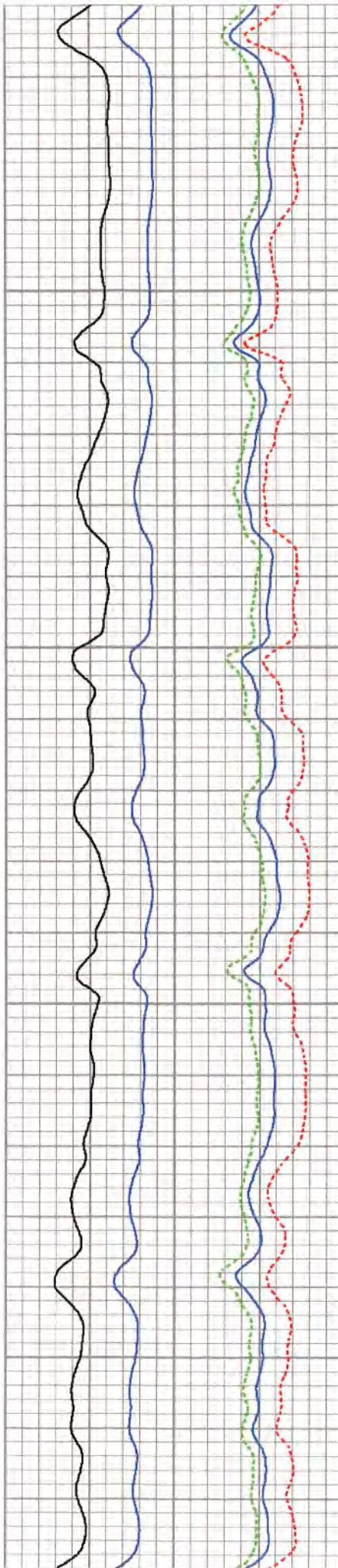


3950

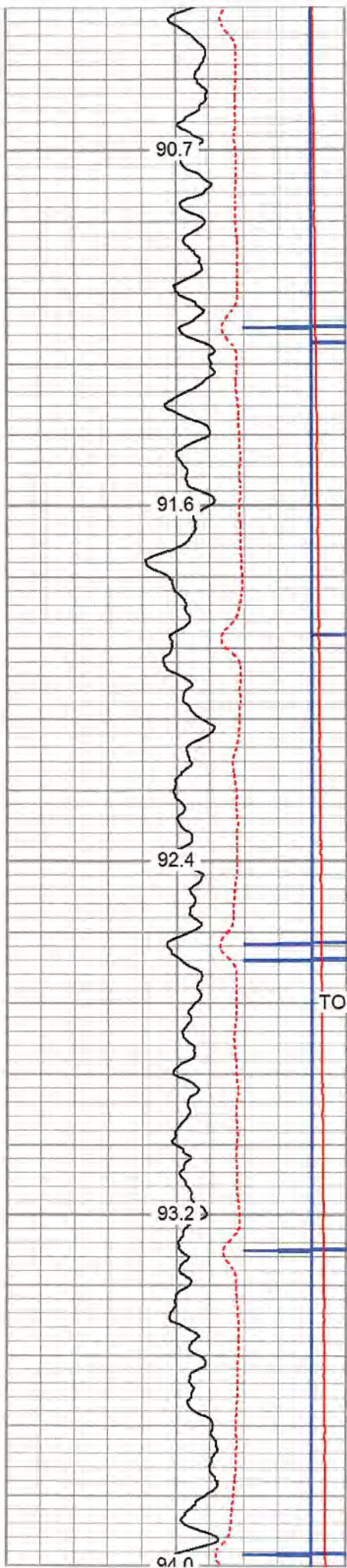
4000

4050

4100

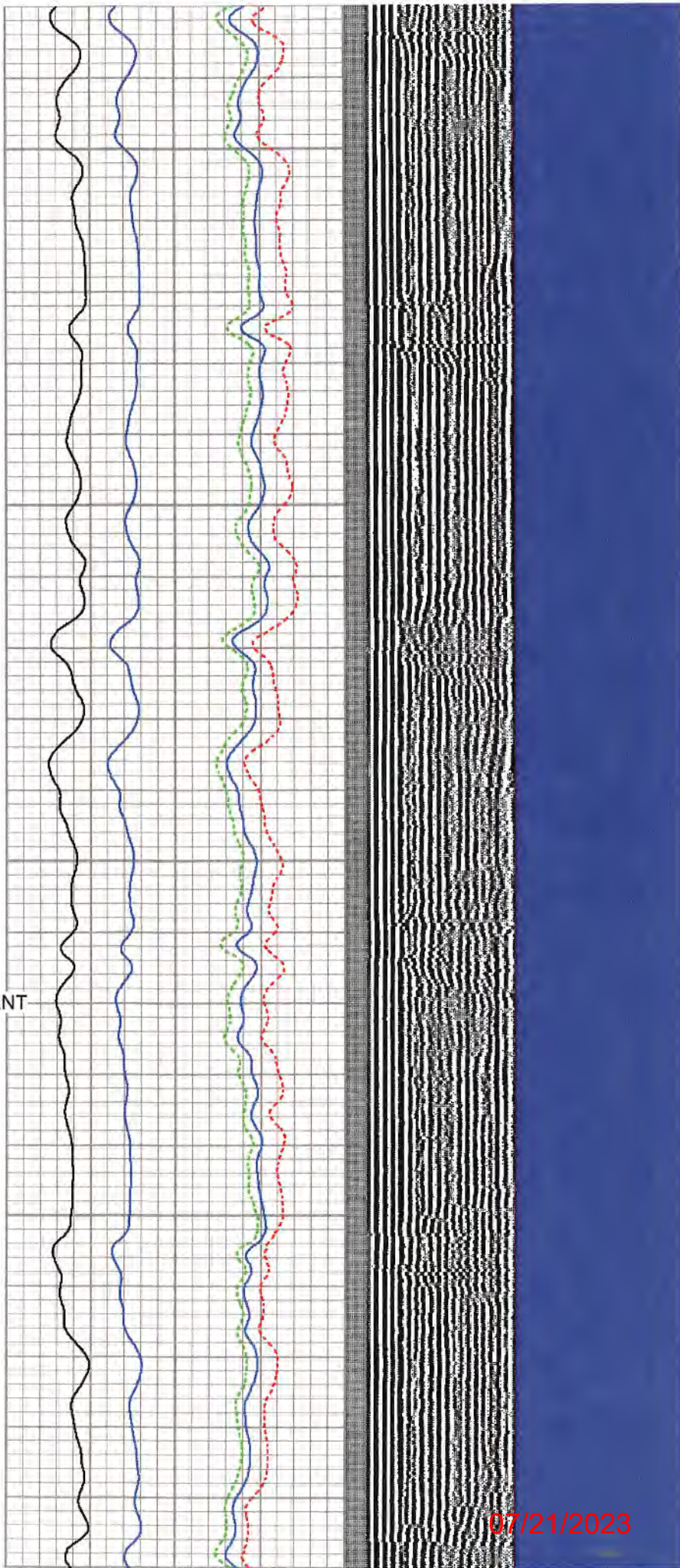


07/21/2023

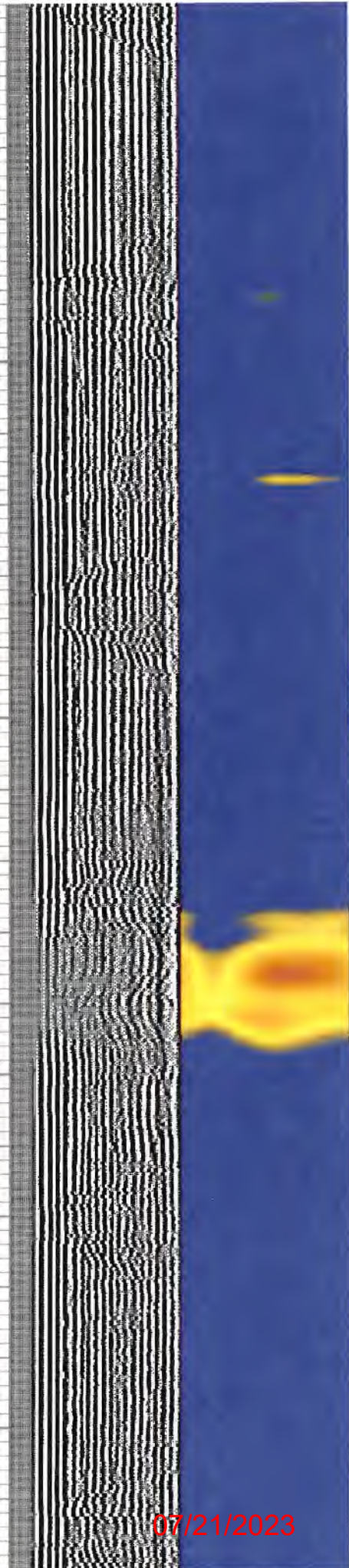
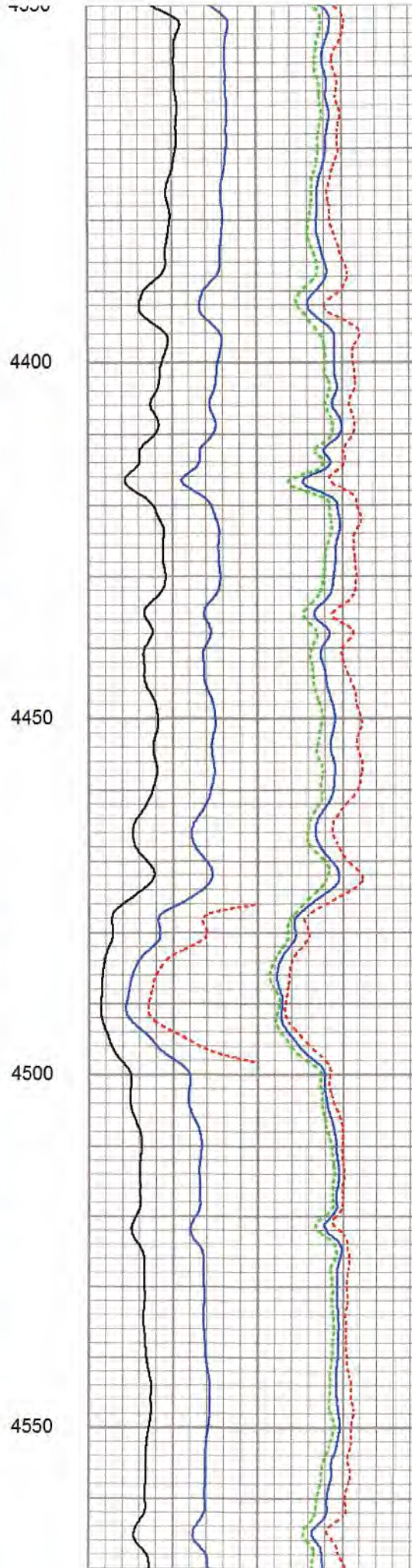
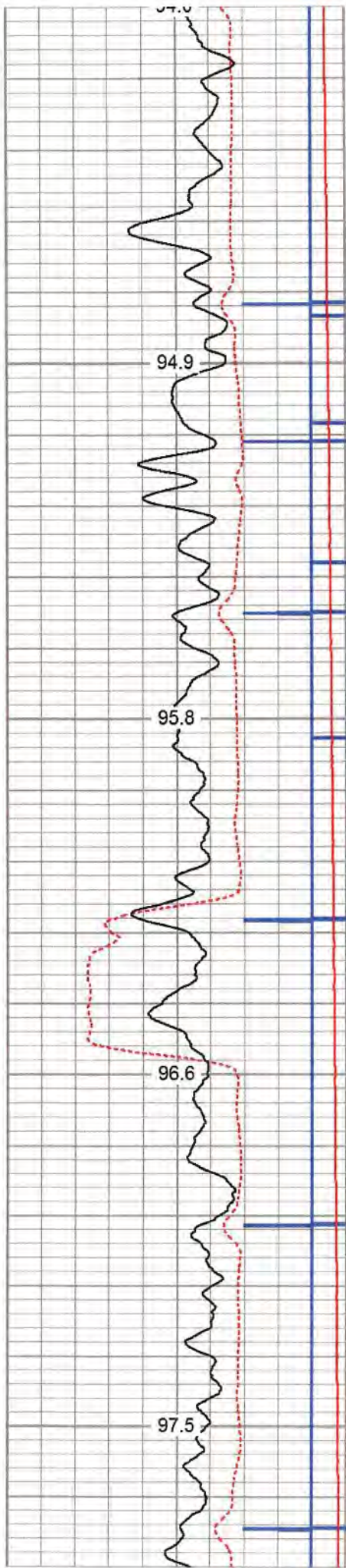


4150
4200
4250
4300
4350

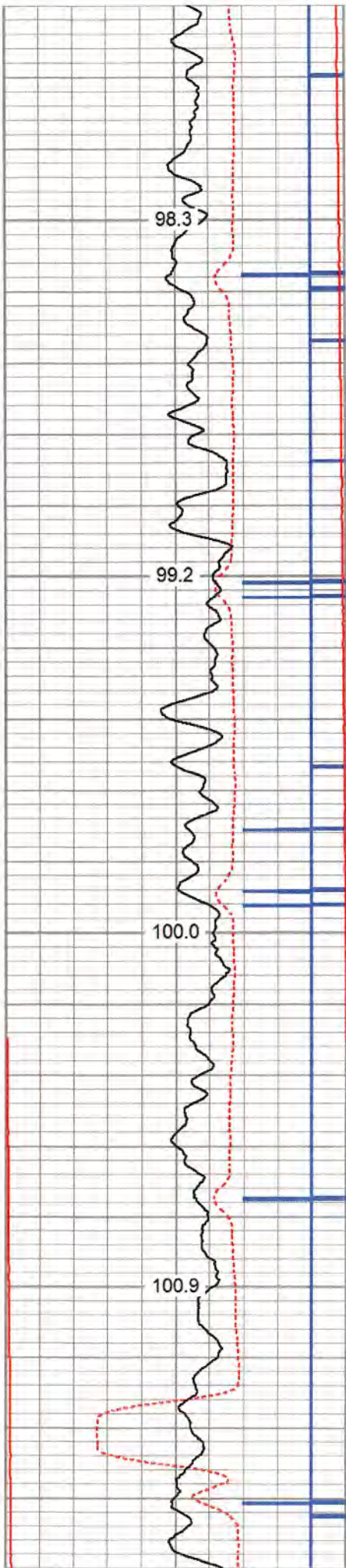
TOP OF CEMENT



07/21/2023



07/21/2023

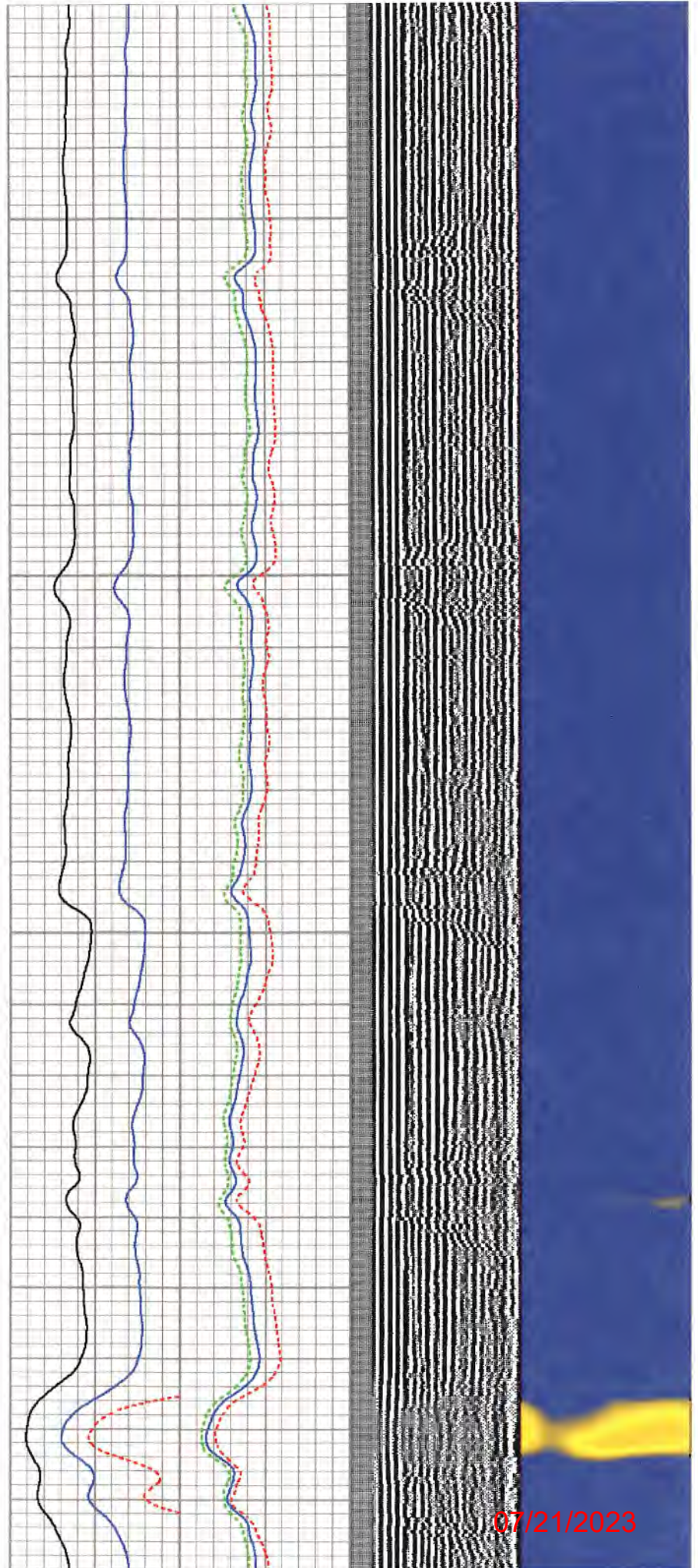


4600

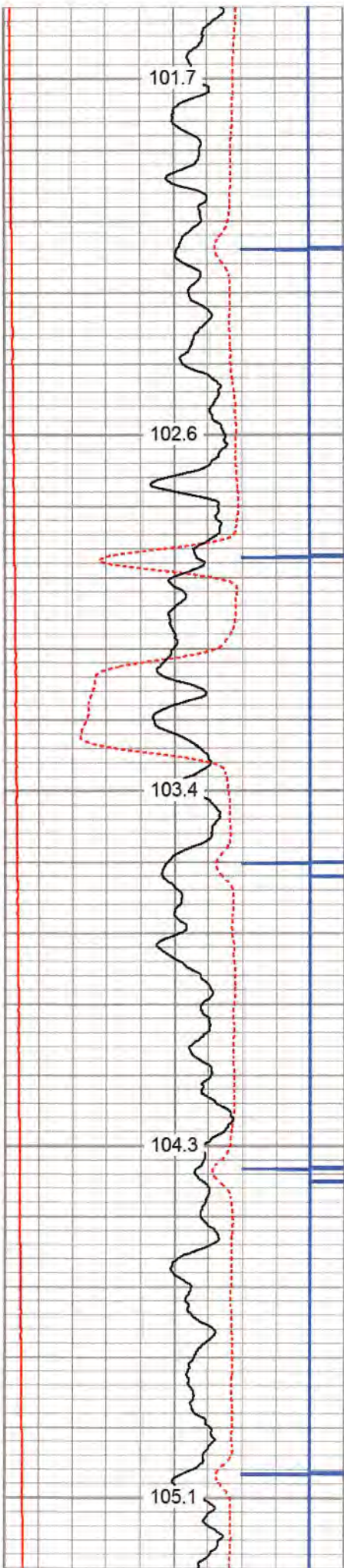
4650

4700

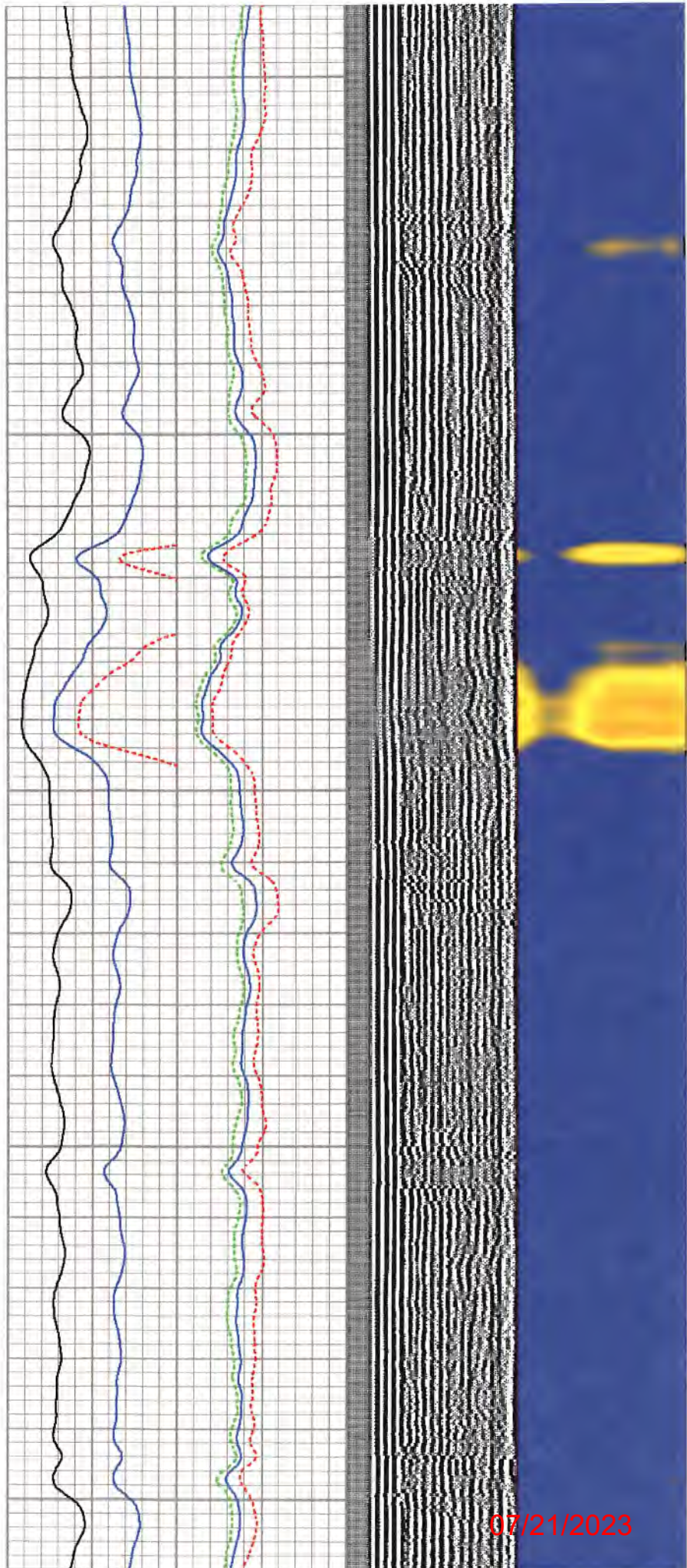
4750



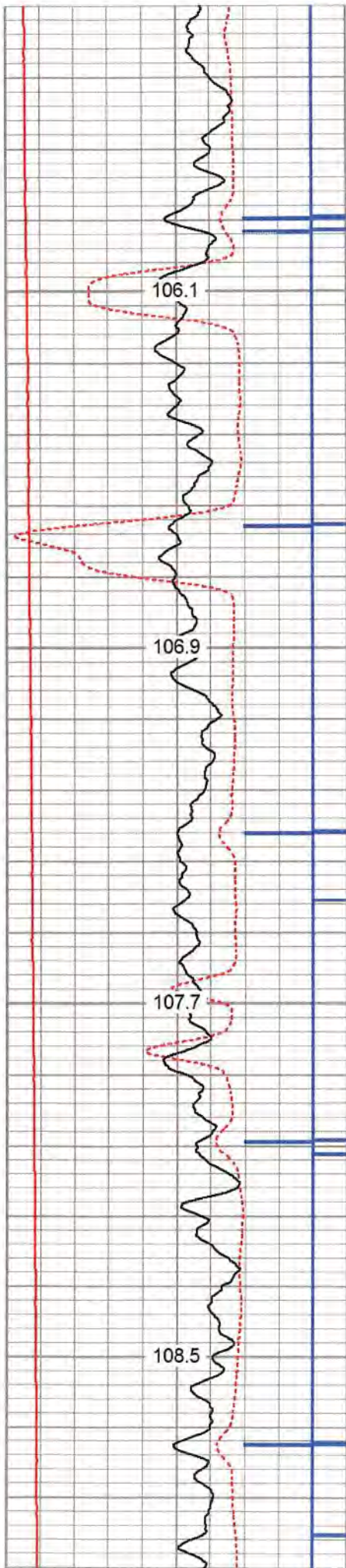
07/21/2023



4800
4850
4900
4950
5000



07/21/2023

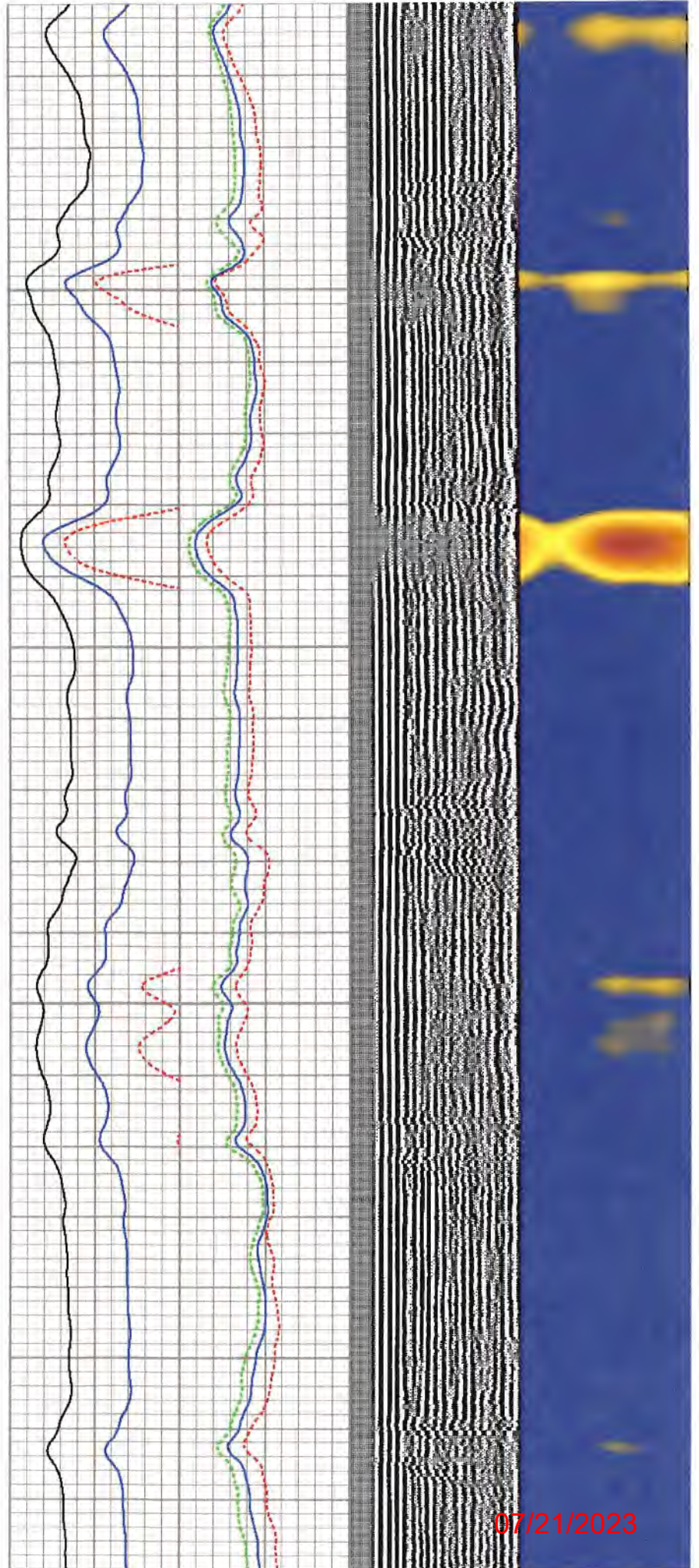


5050

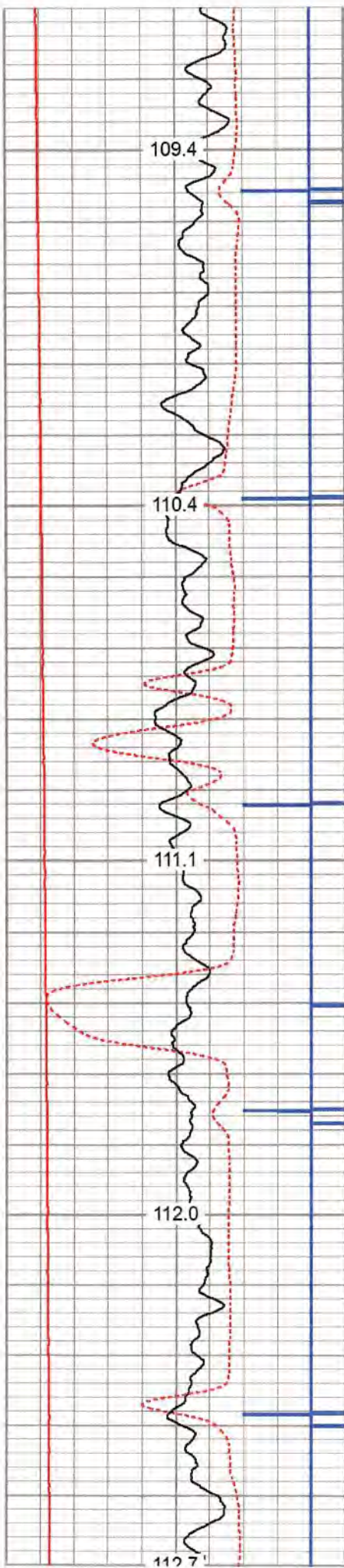
5100

5150

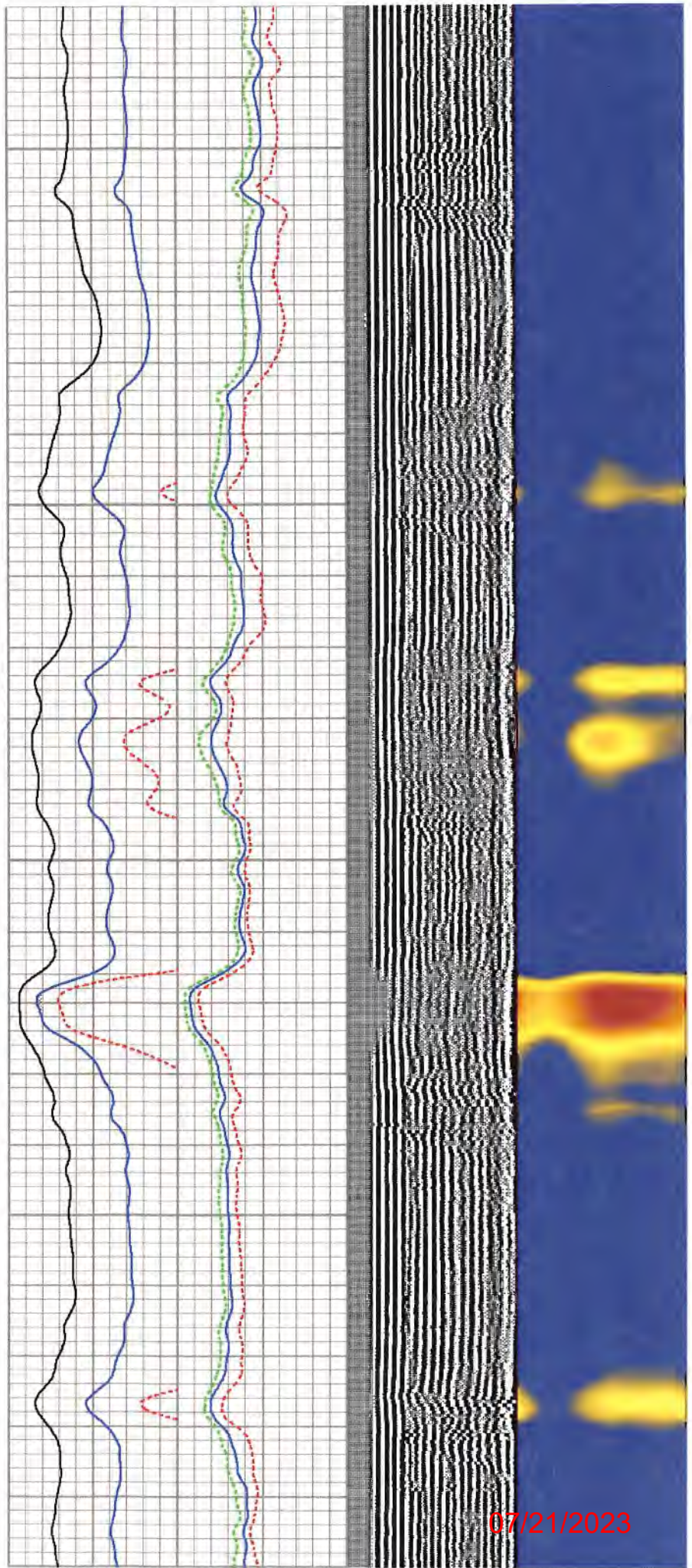
5200



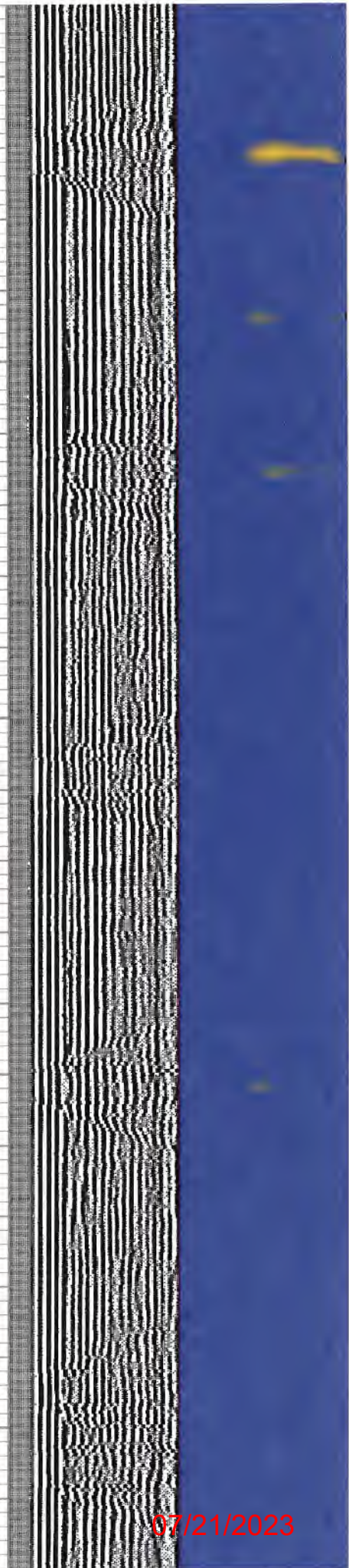
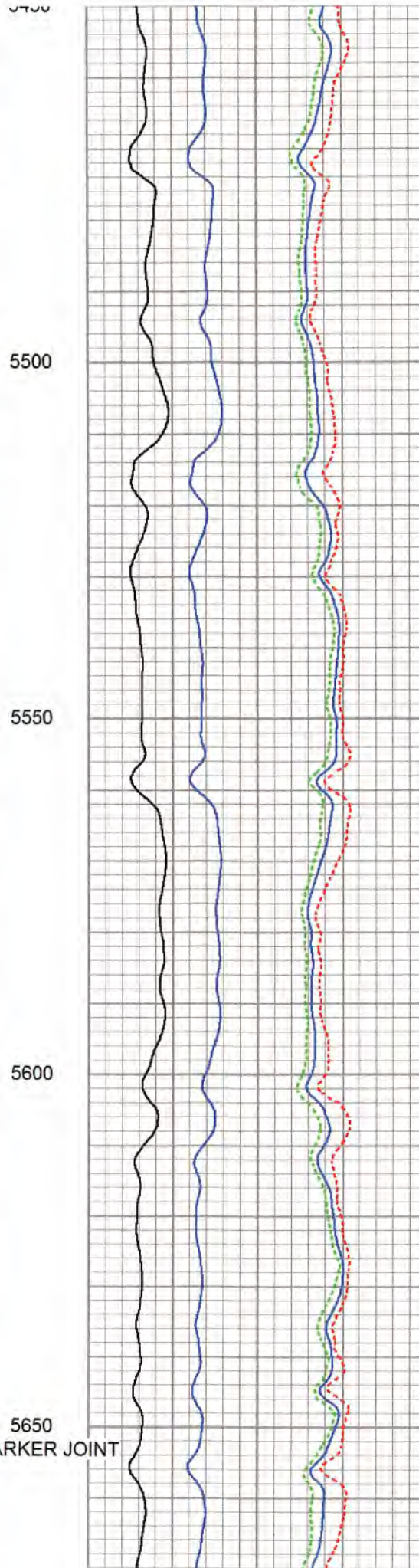
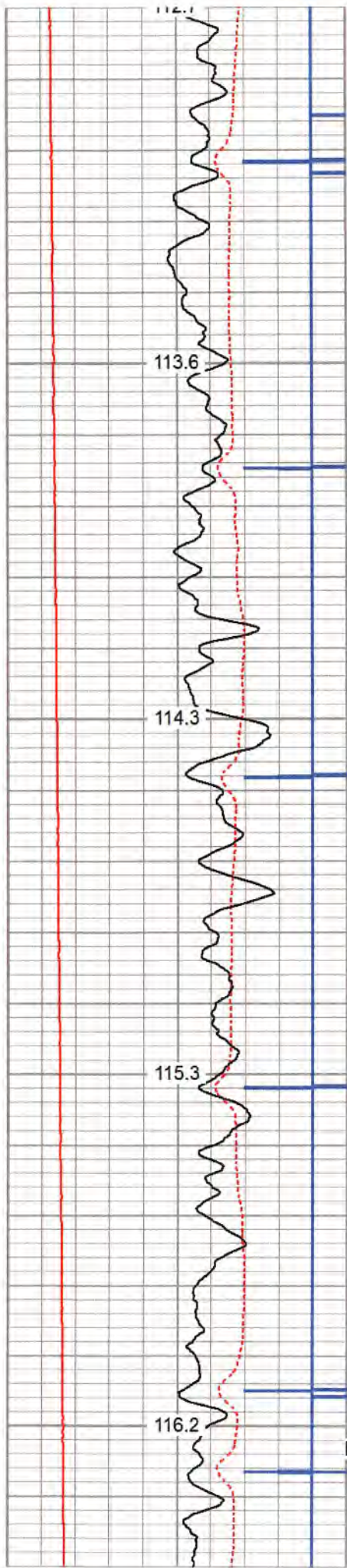
07/21/2023



5250
5300
5350
5400
5450

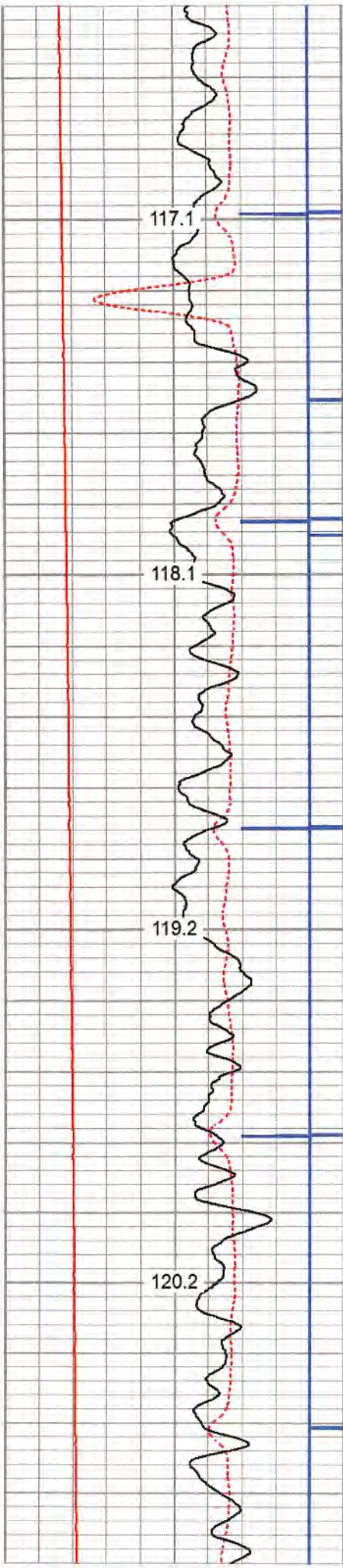


07/21/2023

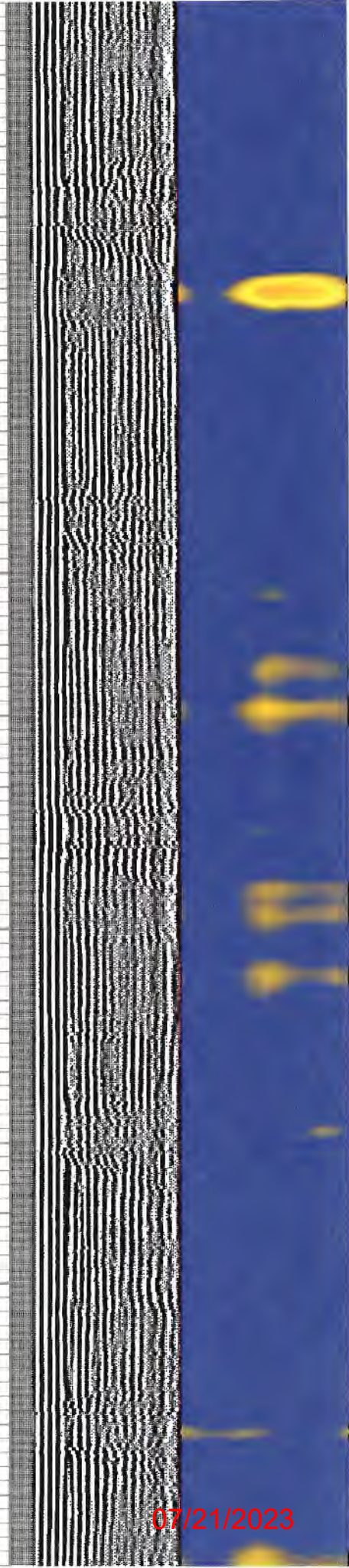
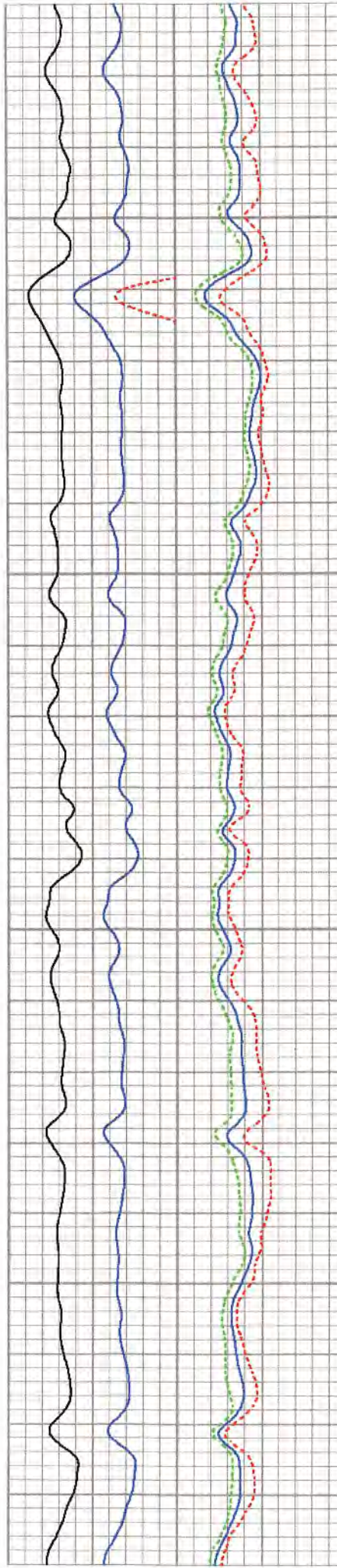


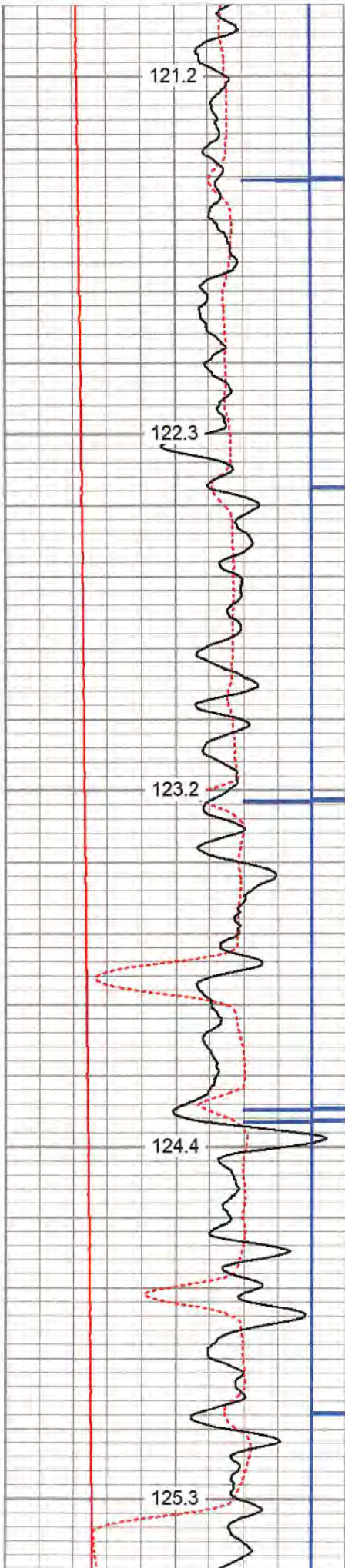
5650
MARKER JOINT

07/21/2023

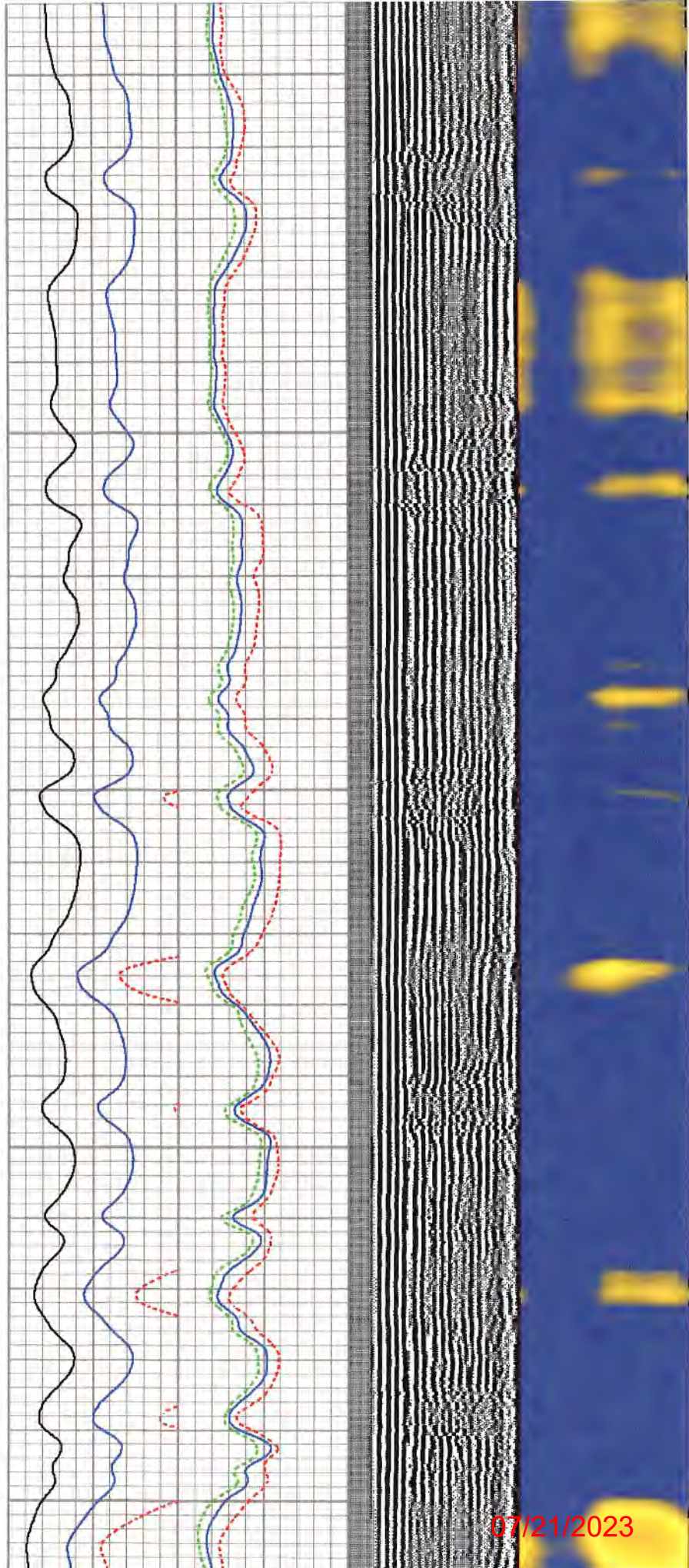


5700
5750
5800
5850

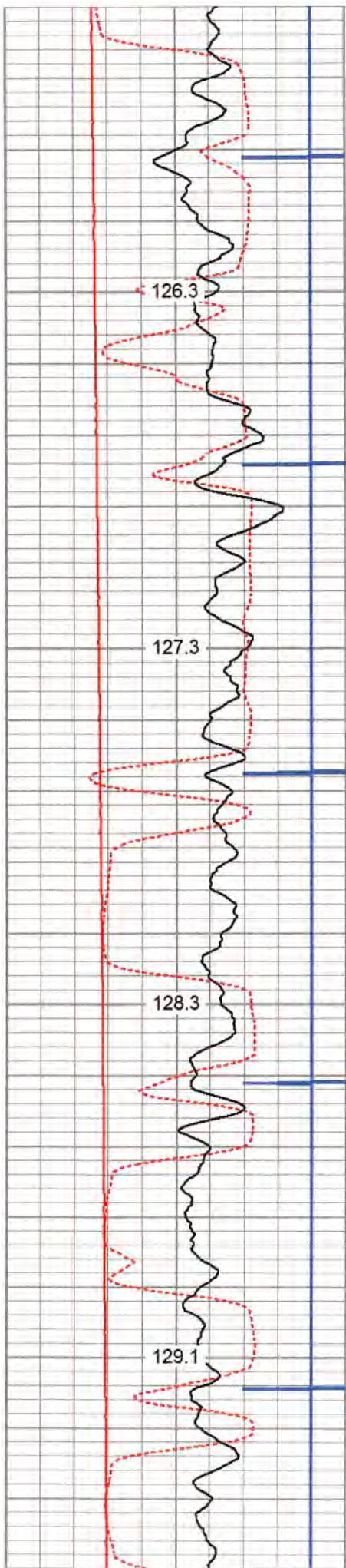




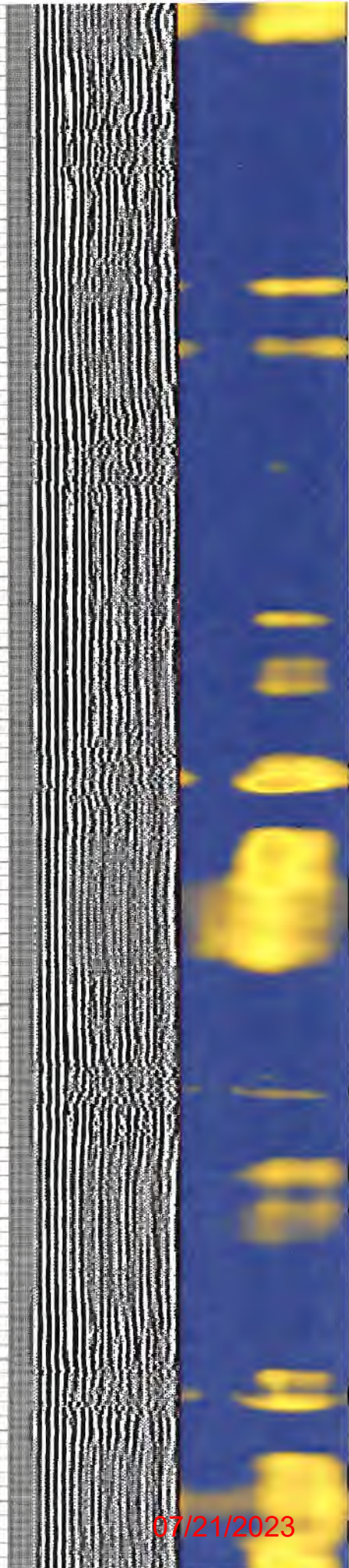
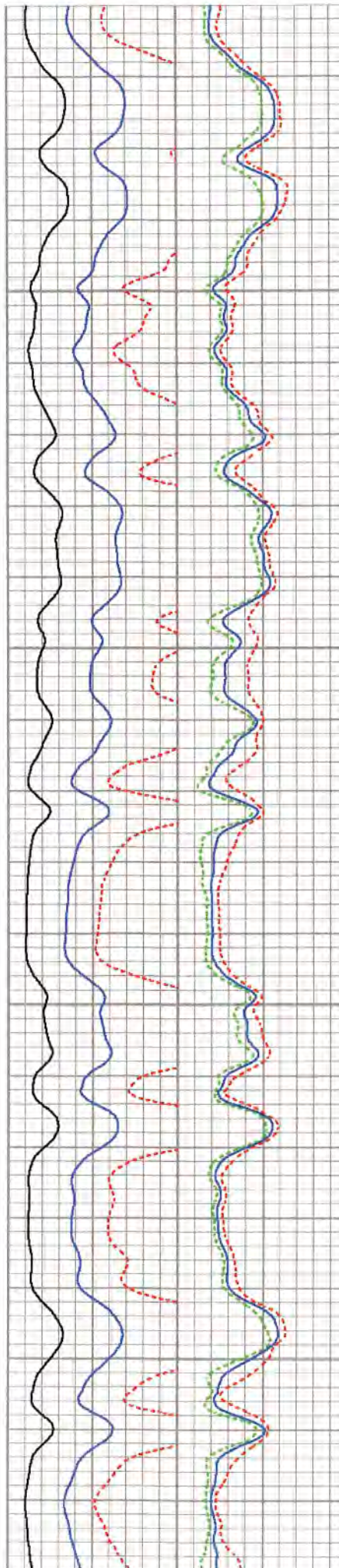
5900
5950
6000
6050
6100



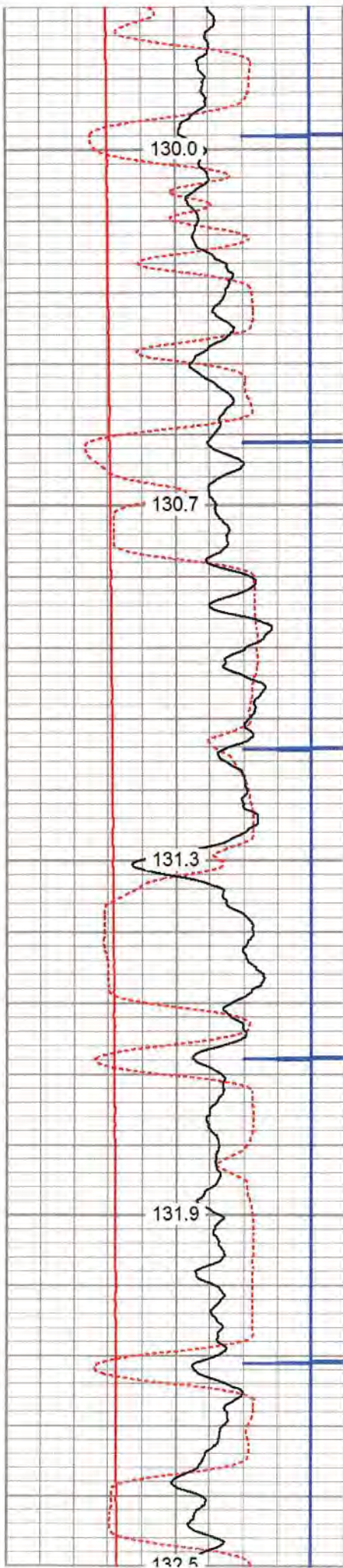
07/21/2023



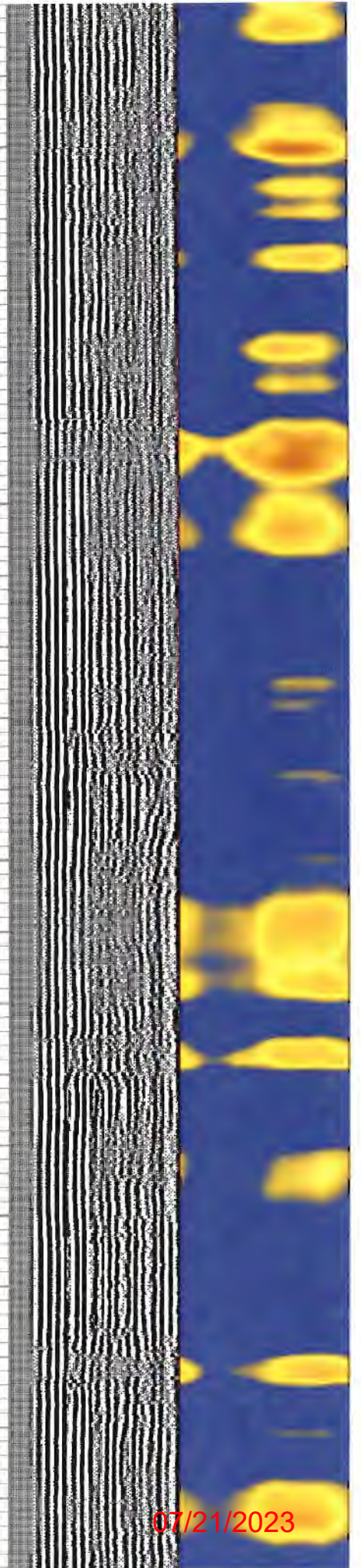
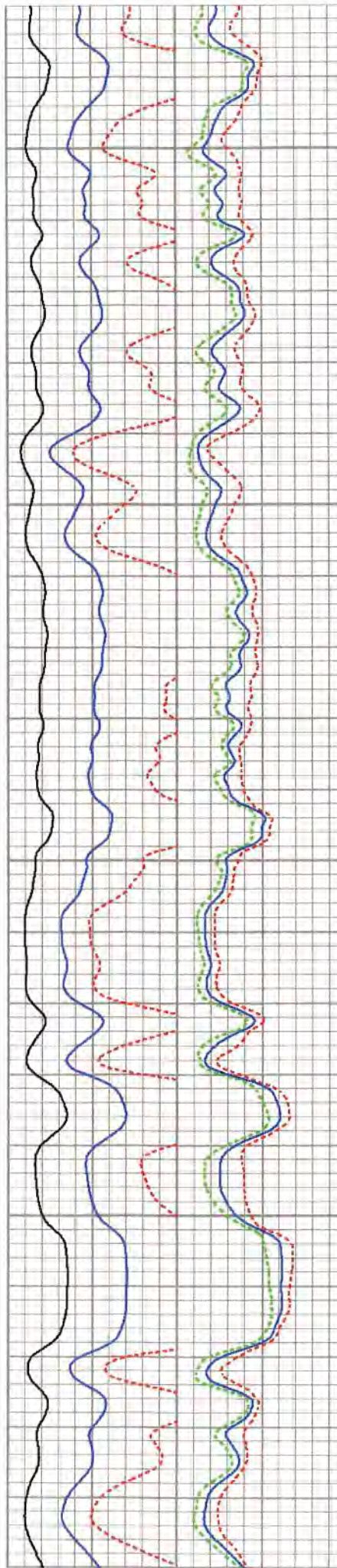
6150
6200
6250
6300



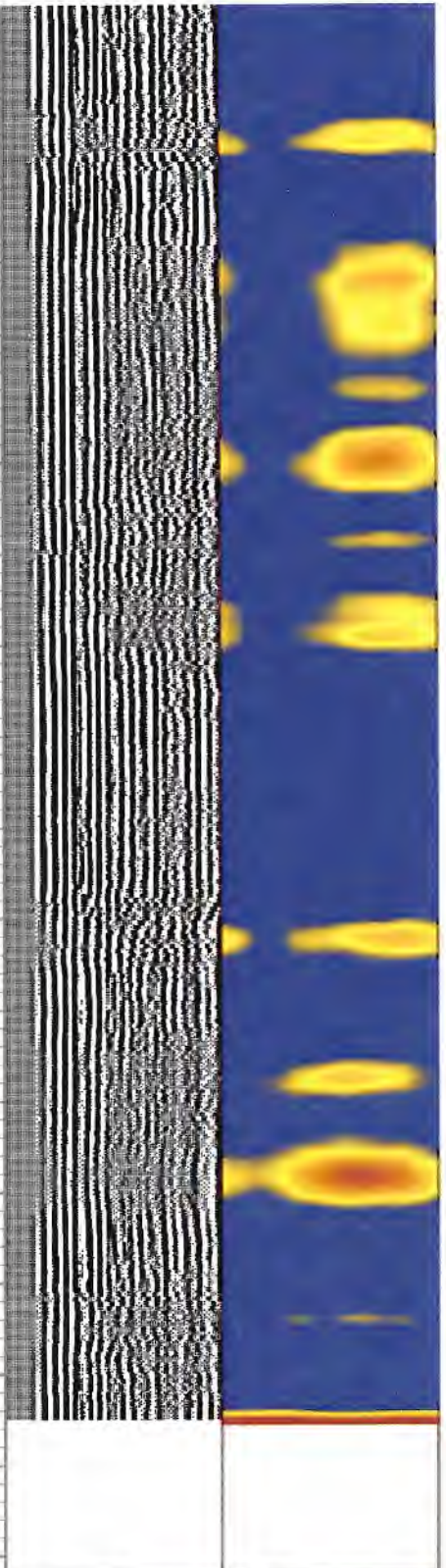
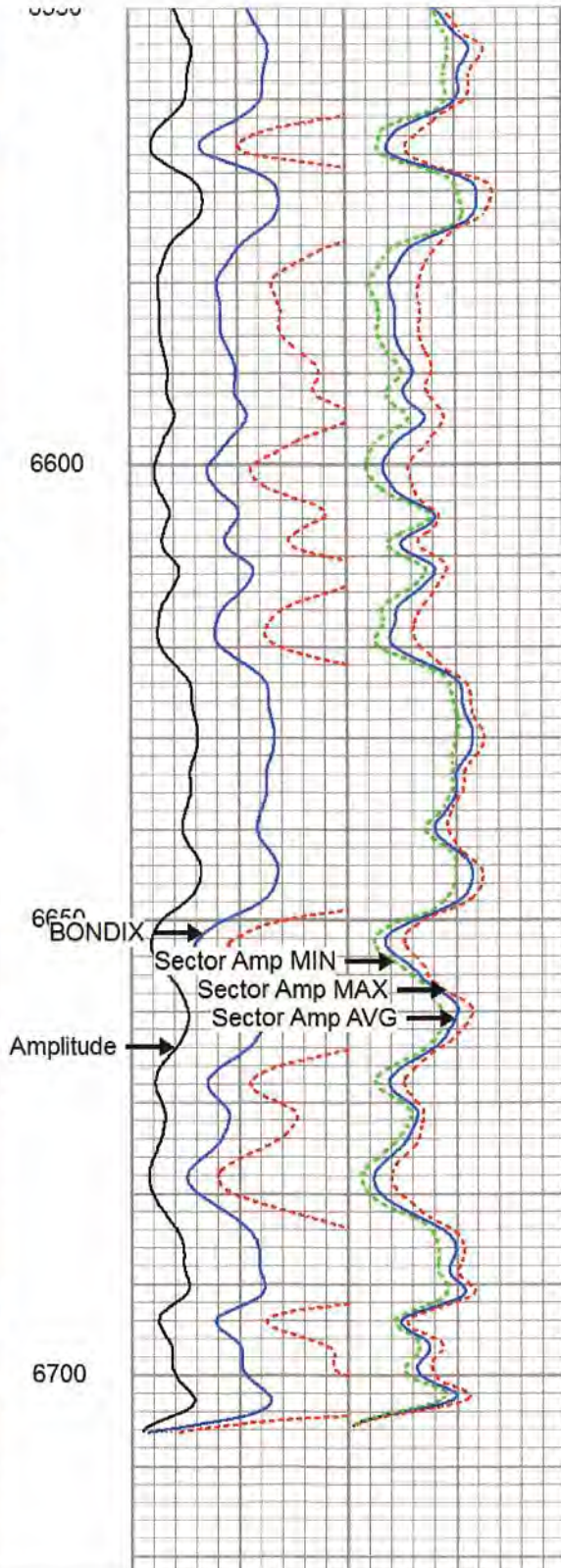
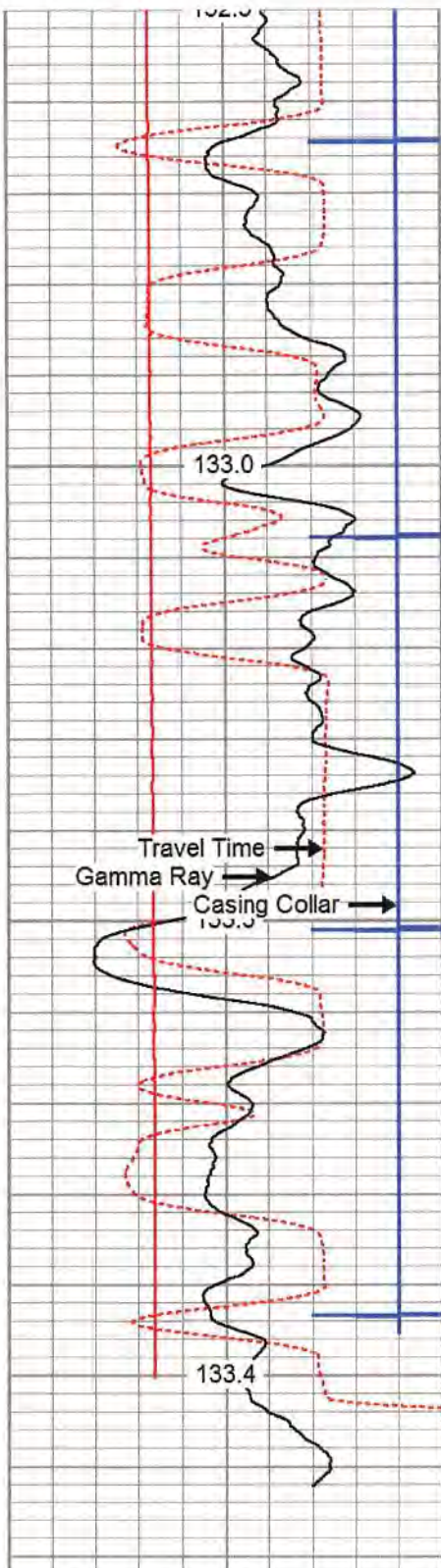
07/21/2023



6350
6400
6450
6500
6550



07/21/2023



280	Travel Time (usec)	180
9	Casing Collar	-1
0	Gamma Ray	180
0	TEMP (degF)	100
180	GR	360

TEMP
(degF)

Amplitude	Sector Amp AVG	VDL
0 (mV) 100	Sector Amp MAX	200 (usec) 1200
Amp X5	Sector Amp MIN	
0 (mV) 20		
1 BONDIX 0		

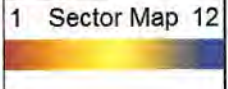
1 Sector Map 12

Database File e:\antero 2020\8_25_20_antero_lorainainit_2h.db
 Dataset Pathname pass5
 Presentation Format antero
 Dataset Creation Tue Aug 25 17:52:57 2020
 Charted by Depth in Feet scaled 1:240

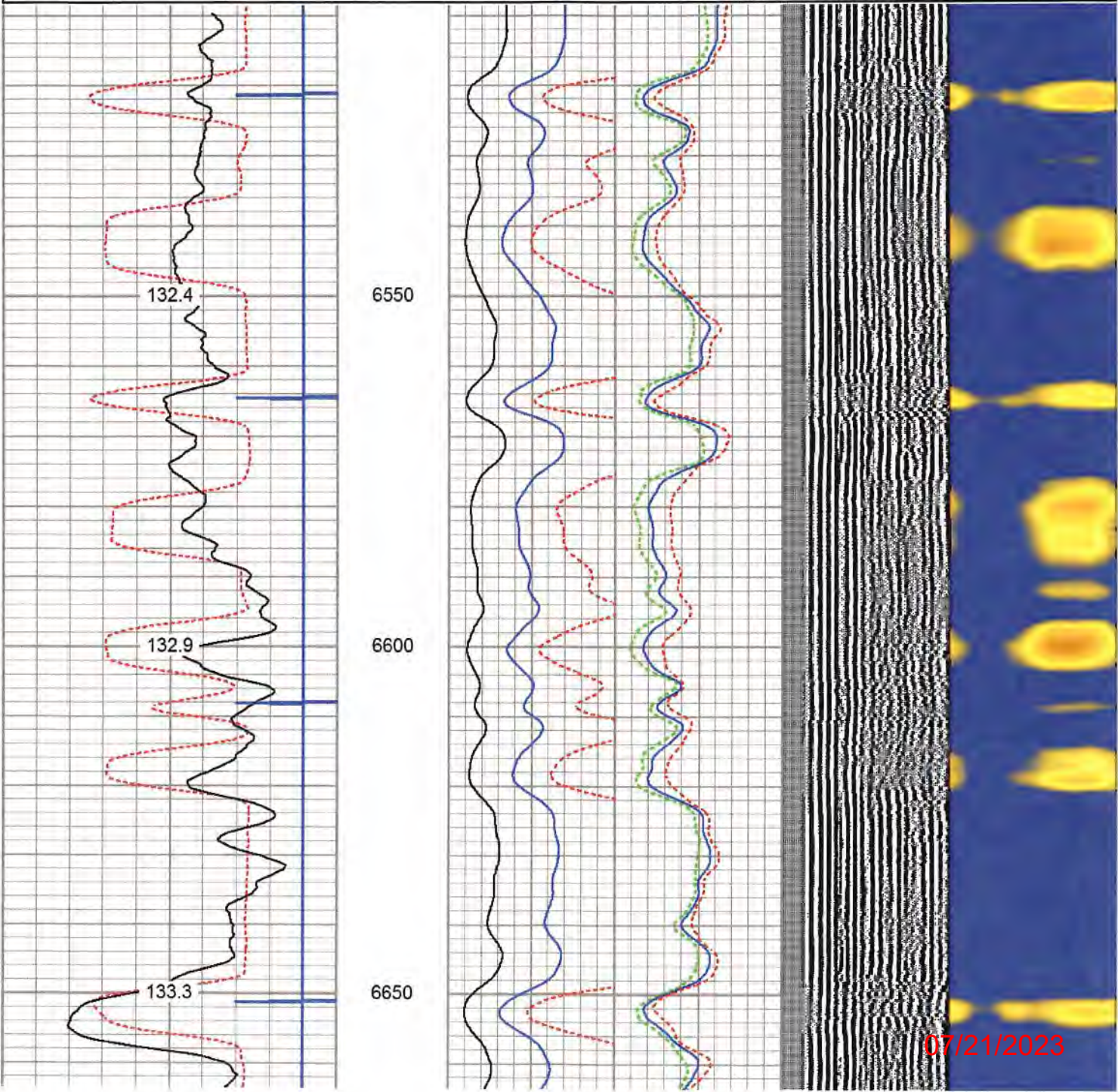
280	Travel Time (usec)	180
9	Casing Collar	-1
0	Gamma Ray	180
0	TEMP (degF)	100
180	GR	360

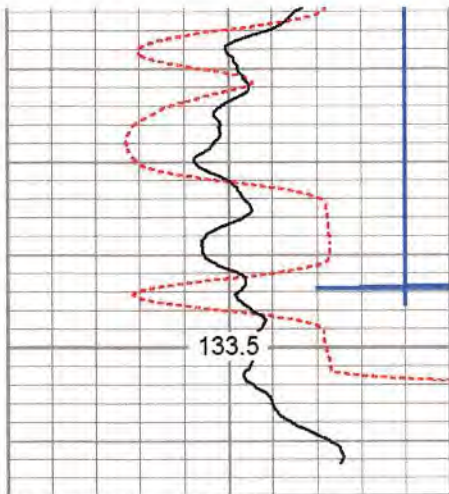
0	Amplitude (mV)	100
0	Amp X5 (mV)	20
1	BONDIX	0

Sector Amp AVG	VDL	1	Sector Map 12
Sector Amp MAX	(usec)	200	1200
Sector Amp MIN			

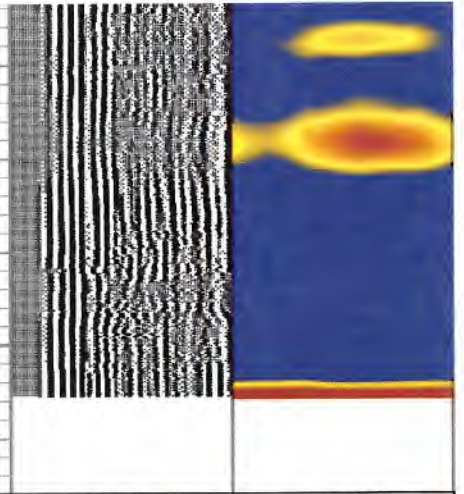
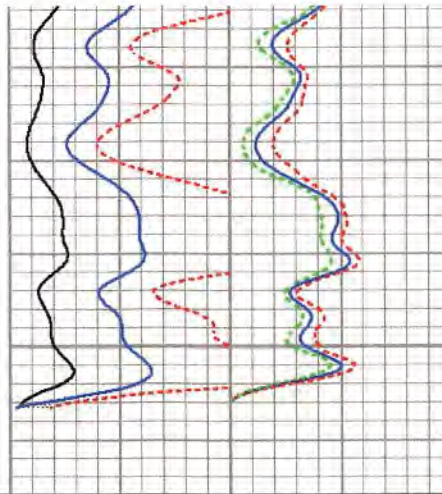


TEMP (degF)





6700



280	Travel Time (usec)	180
9	Casing Collar	-1
0	Gamma Ray	180
0	TEMP (degF)	100
180	GR	360

Amplitude	Sector Amp AVG	VDL	1 Sector Map 12
0 (mV) 100	Sector Amp MAX	200 (usec) 1200	
Amp X5	Sector Amp MIN		
0 (mV) 20			
1 BONDIX 0			

TEMP
(degF)

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
CCL	20.30		CCL-312tekco (108X3-01) Tekco 3 1/8" 450 Deg. "F" SmCo Logging CCL	1.82	3.12	25.00
			Tek-3.125 3 1/8" Titan Adjustable Centralizer	3.42	3.13	50.00
TEMP	13.46					
WVFS12	12.17		SCBL-Tek12 (10L40-03_5_5) Tekco 400 Deg F 12 Sector RIB with Temp	9.13	3.25	135.00
WVFS11	12.17					
WVFS10	12.17					
WVFS9	12.17					
WVFS8	12.17					
WVFS7	12.17					
WVFS6	12.17					
WVFS5	12.17					
WVFS4	12.17					
WVFS3	12.17					

07/21/2023

WVFS2	12.17		Tek-3.125 3 1/8" Titan Adjustable Centralizer	3.42	3.13	50.00
WVFS1	12.17					
WVFCAL	11.42					
WVF3FT	11.42					
WVF5FT	10.42					
WVFSYNC	7.08					
WVFTEMP	7.08					
GR	1.04	GR-Tek-Co 2 3/4 (IPSNO-03) Tekco 2 3/4" 400 Deg. F Logging Gamma Ray	3.67	2.75	40.00	

Dataset: 8_25_20_antero_lorainunit_2h.db: field/well/run1/pass6
 Total length: 21.44 ft
 Total weight: 300.00 lb
 O.D.: 3.25 in

Calibration Report

Database File E:\antero 2020\8_25_20_antero_lorainunit_2h.db
 Dataset Pathname pass6
 Dataset Creation Tue Aug 25 18:14:52 2020

Gamma Ray Calibration Report

Serial Number: IPSNO-03
 Tool Model: Tek-Co 2 3/4
 Performed: Tue Nov 12 16:11:18 2019
 Calibrator Value: 1.0
 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps
 Sensitivity: 0.5000 /cps

Segmented Cement Bond Log Calibration Report

Serial Number: IOL40-03_5_5
 Tool Model: Tek12
 Calibration Casing Diameter: 5.500 in
 Calibration Depth: 388.083 ft

Master Calibration, performed Tue Aug 25 07:12:11 2020:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.701	3.400	71.921	97.878	3.338
CAL	0.865	0.408				
5'	-0.002	0.748	1.000	71.921	94.617	1.169
SUM						
S1	0.006	1.637	0.000	100.000	61.287	-0.344
S2	0.006	1.500	0.000	100.000	66.925	-0.407

07/21/2023

S3	0.006	1.414	0.000	100.000	71.015	-0.416
S4	0.005	1.460	0.000	100.000	68.730	-0.356
S5	0.004	1.595	0.000	100.000	62.854	-0.274
S6	0.004	1.757	0.000	100.000	57.065	-0.244
S7	0.004	1.715	0.000	100.000	58.440	-0.227
S8	0.004	1.625	0.000	100.000	61.675	-0.217
S9	0.004	1.572	0.000	100.000	63.755	-0.232
S10	0.004	1.549	0.000	100.000	64.697	-0.244
S11	0.004	1.554	0.000	100.000	64.514	-0.246
S12	0.005	1.648	0.000	100.000	60.865	-0.276

Temperature Calibration Report

Serial Number: IOL40-03_5_5
Tool Model: Tek12
Performed: Fri Oct 20 09:51:21 2017

	Reference	Reading
Low Reference:	0.00 degF	0.00 usec
High Reference:	1.00 degF	1.00 usec
Gain:	0.33	
Offset:	0.00	
Delta Spacing	2	



Company	ANTERO RESOURCES CORPORATION
Well	LORAINA UNIT 2H
Field	MARCELLUS
County	TYLER
State	WV
Country	US