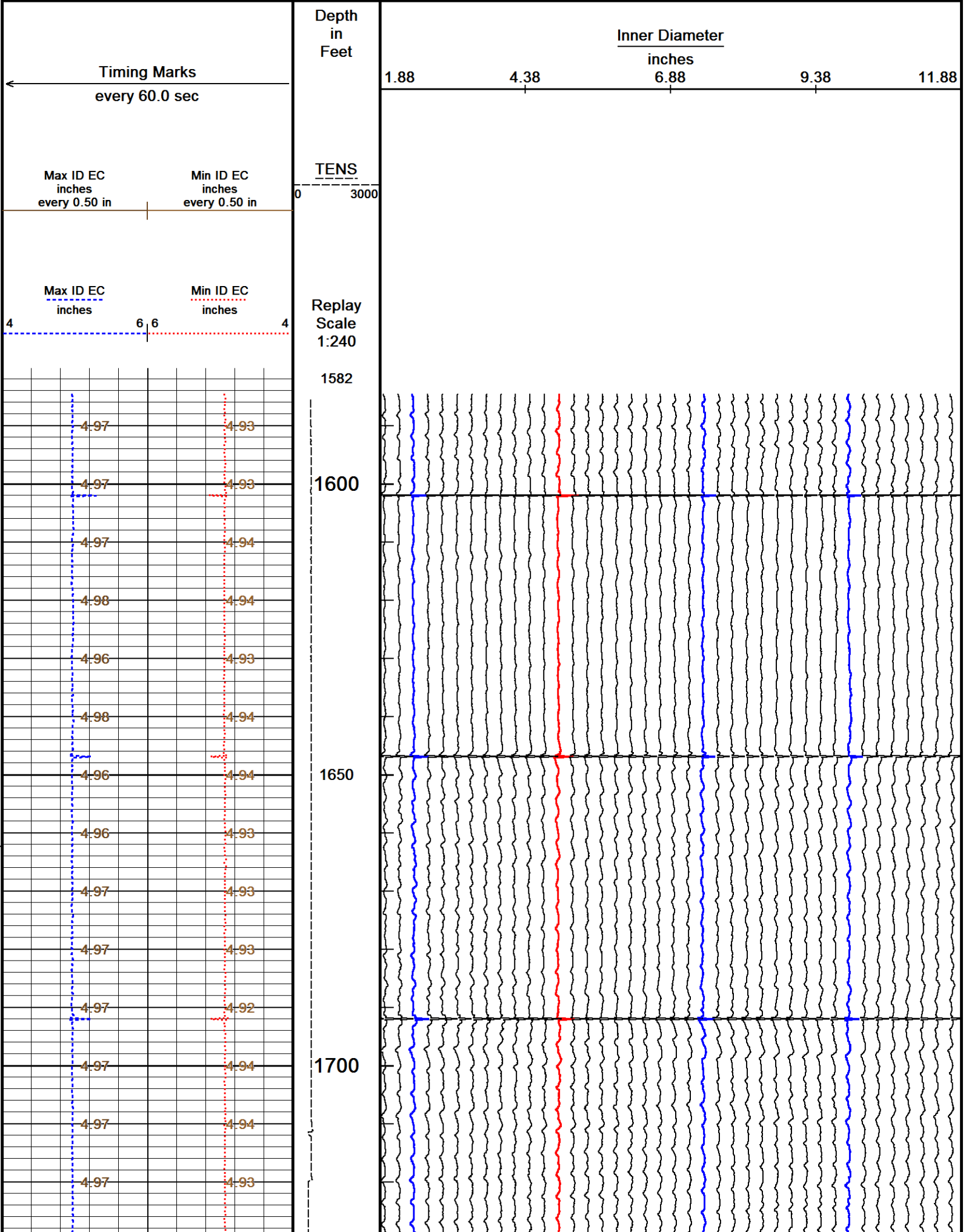
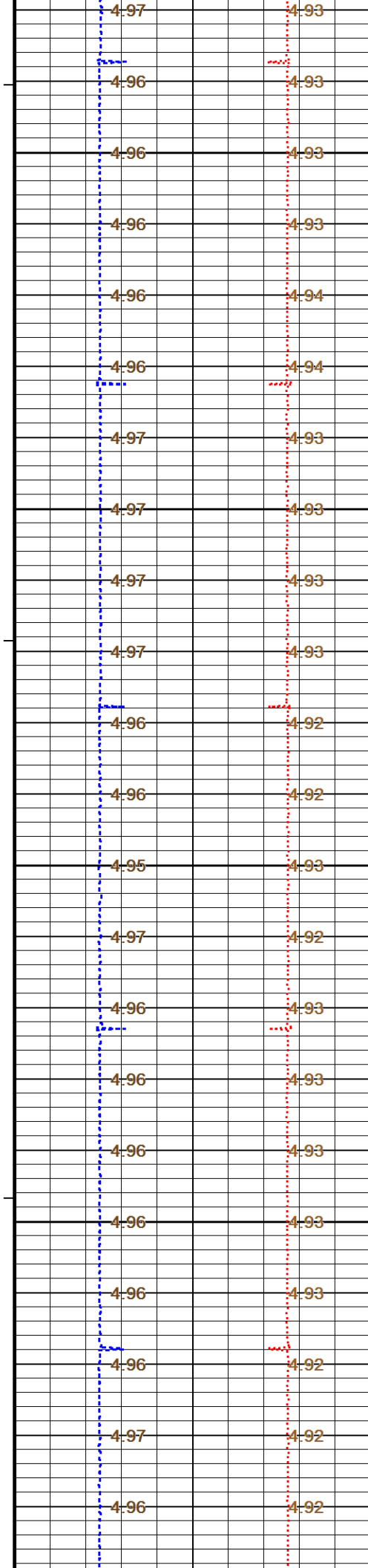
										SECUREVIEW									
Weatherford®										CALVIEW									
										CASING ANALYSIS LOG									
COMPANY										BONANZA CREEK ENERGY									
WELL										NORTH PLATTE K21-O24-28 HNB									
FIELD										WATTENBERG									
PROVINCE/COUNTY										WELD									
COUNTRY/STATE										USA / COLORADO									
LOCATION										271° FNL 428° FEL									
SEC 28		TWP 5N		RGE 63W		Other Services		ULTRAVIEW		BONDVIEW									
Latitude		Longitude		API Number		05-123-46915													
Permanent Datum GL, Elevation 4548 feet										Elevations:		KB		4565.00					
Log Measured From KB, 17.00 feet above Permanent Datum										DF		4565.00							
Drilling Measured From KB										GL		4548.00							
Date		01-NOV-2018				PERFORATION RECORD													
Run Number		ONE		Shot		Number		Depth From		Depth To									
Service Order		18200-228234708		Density		of Shots		feet		feet									
Type Log		MSC																	
Depth Driller		12169.00		feet															
Depth Logger		2608.00		feet															
Top Log Interval		1590.00		feet															
Bottom Log Interval		2608.00		feet															
Hole Fluid Type		WATER																	
Hole Fluid Level		58.00		feet															
Restriction ID		4.892		inches		Gun Type													
Max Recorded Temp		126.80		deg F		Gun Size													
Well Head Pressure		0.00		psi		CASING / TUBING RECORD													
Well Head Equipment		7 1/16" 5K		Size		Weight		Depth From		Depth To									
Time Well Ready		ROA		inches		pounds/ft		feet		feet									
Time Logger Bottom		SEE LOG		9.625		36.00		0.00		1639.00									
Unit		14122		5.500		17.00		0.00		12159.00									
Equipment Name		WSS-E																	
Base		CASPER																	
Recorded By		A LITTLE																	
Witnessed By		K DODGE																	

CASING / TUBING RECORD						
Type	Grade	TypeJoint	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	J-55	LTC	9.625	0.00	1639.00	36.00
PRODUCTION	P-110	LTC	5.500	0.00	12159.00	17.00

REMARKS
SECUREVIEW CALVIEW LOG CORRELATED TO SECUREVIEW ULTRAVIEW BONDVIEW LOG LOGGED BY WEATHERFORD 1 NOV 2018

In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.



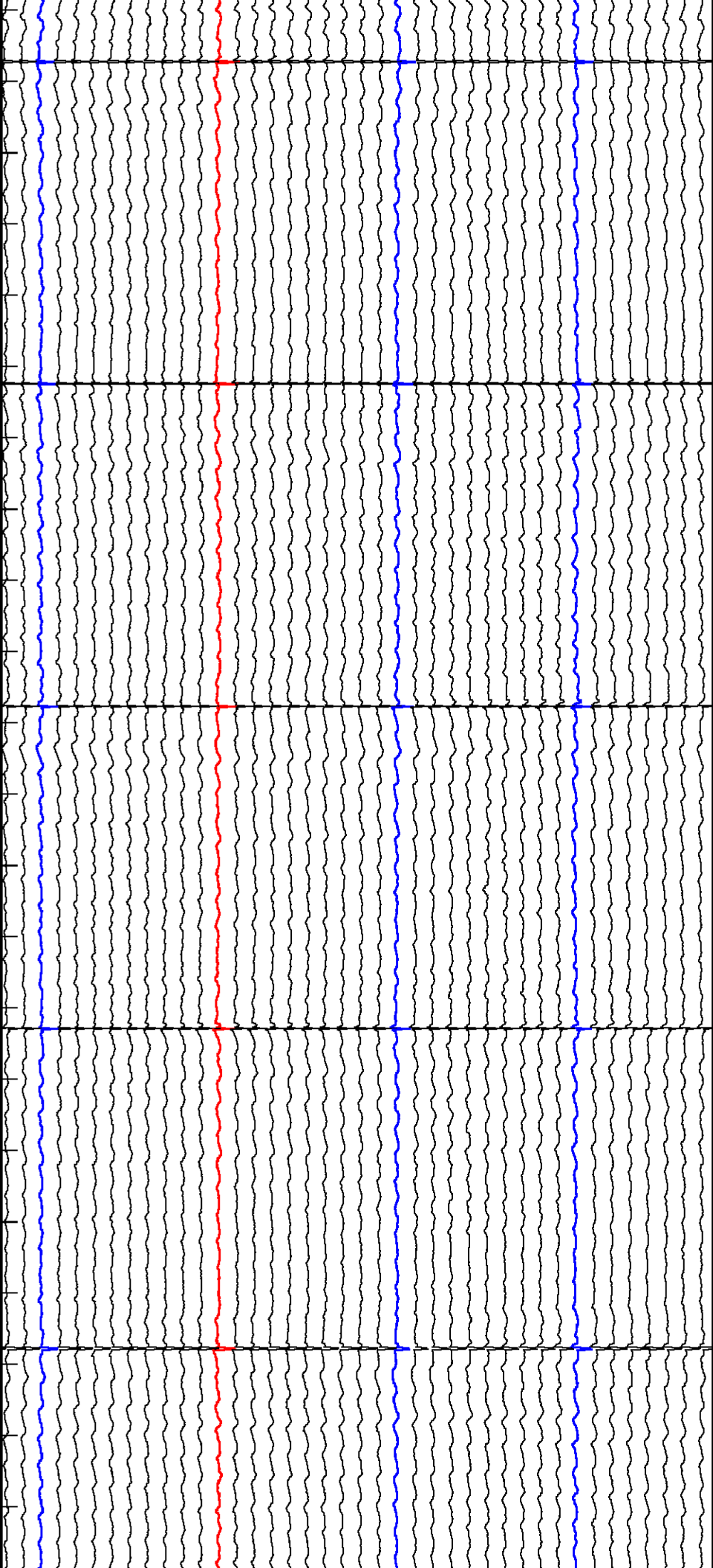


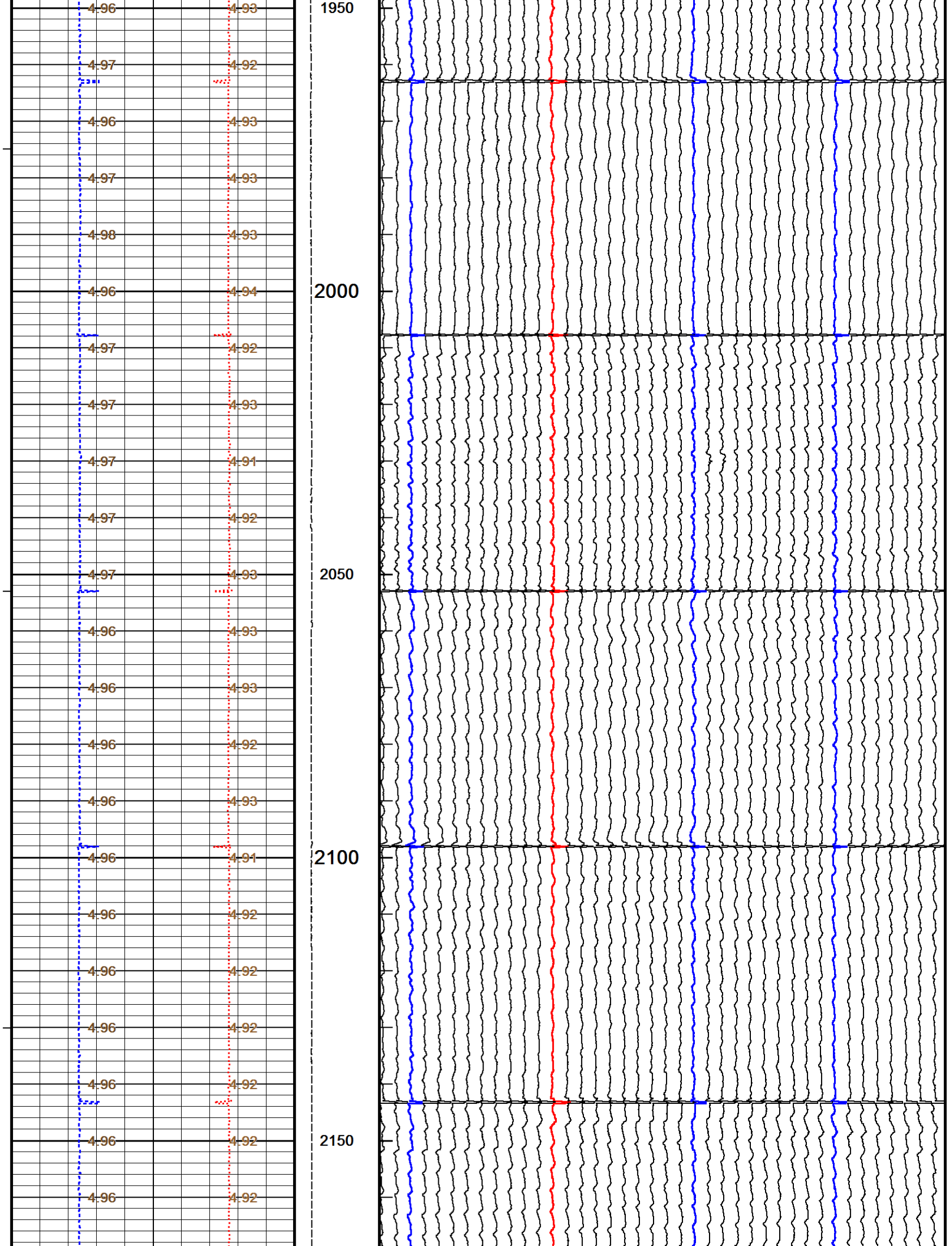
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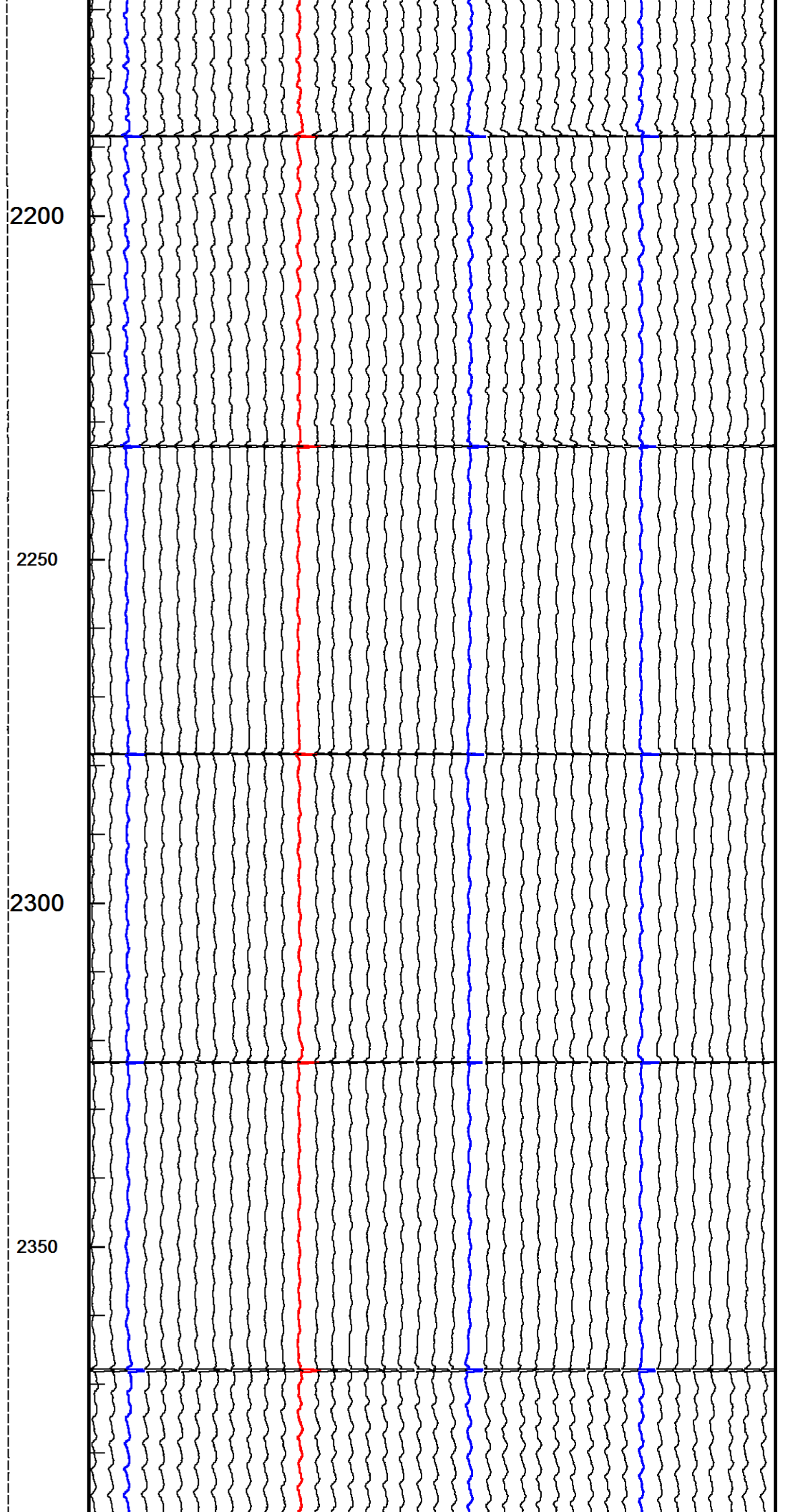
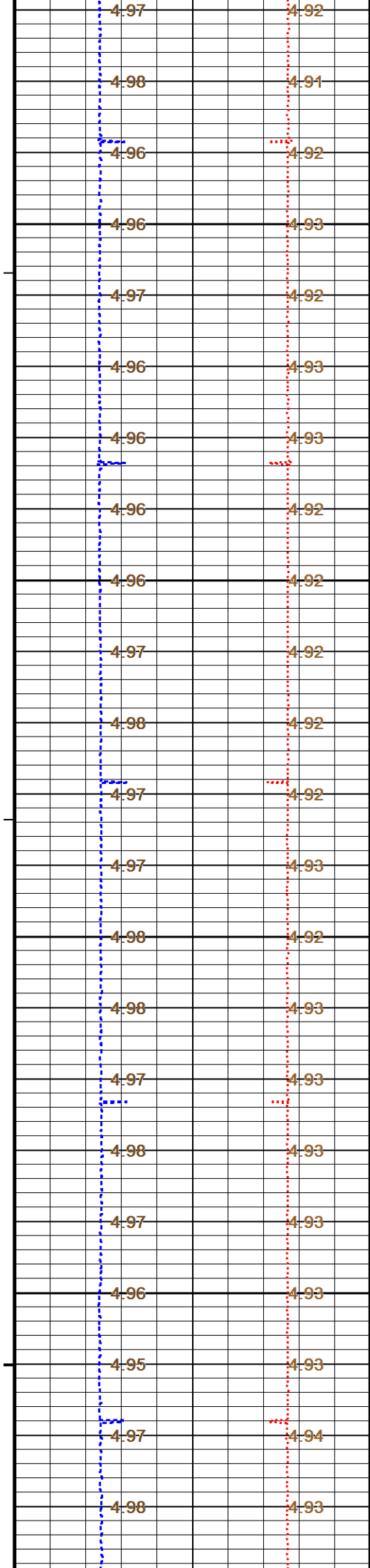
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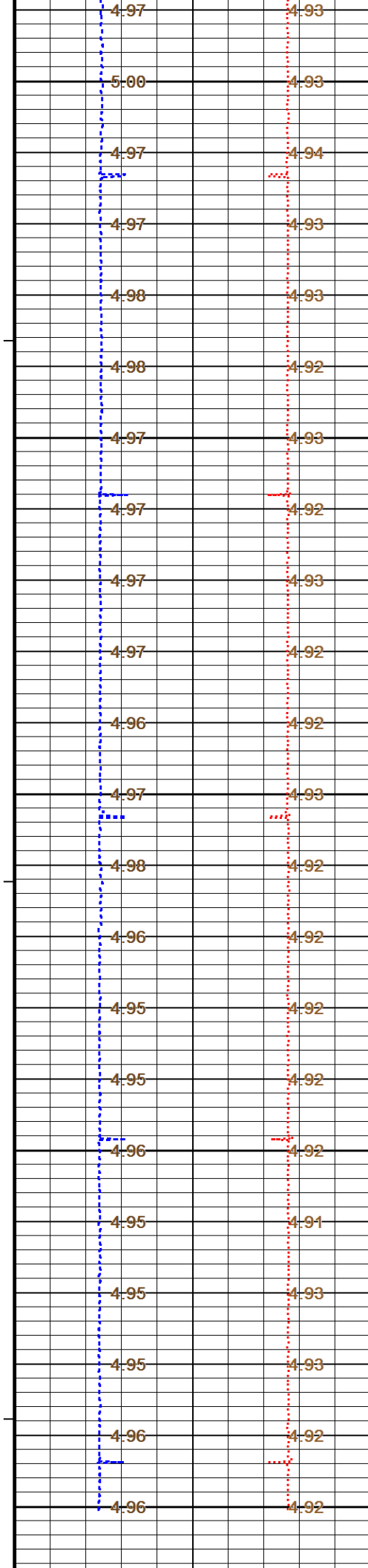
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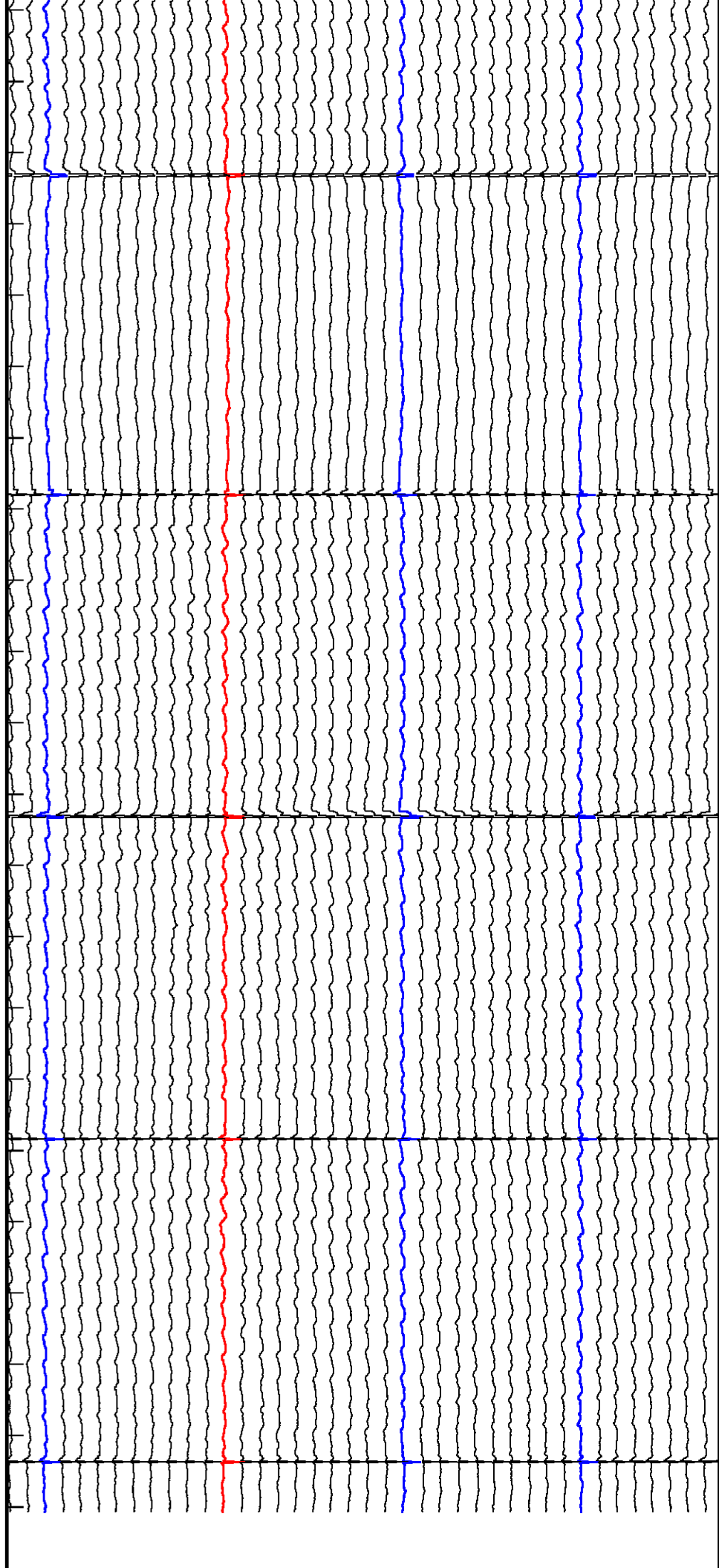
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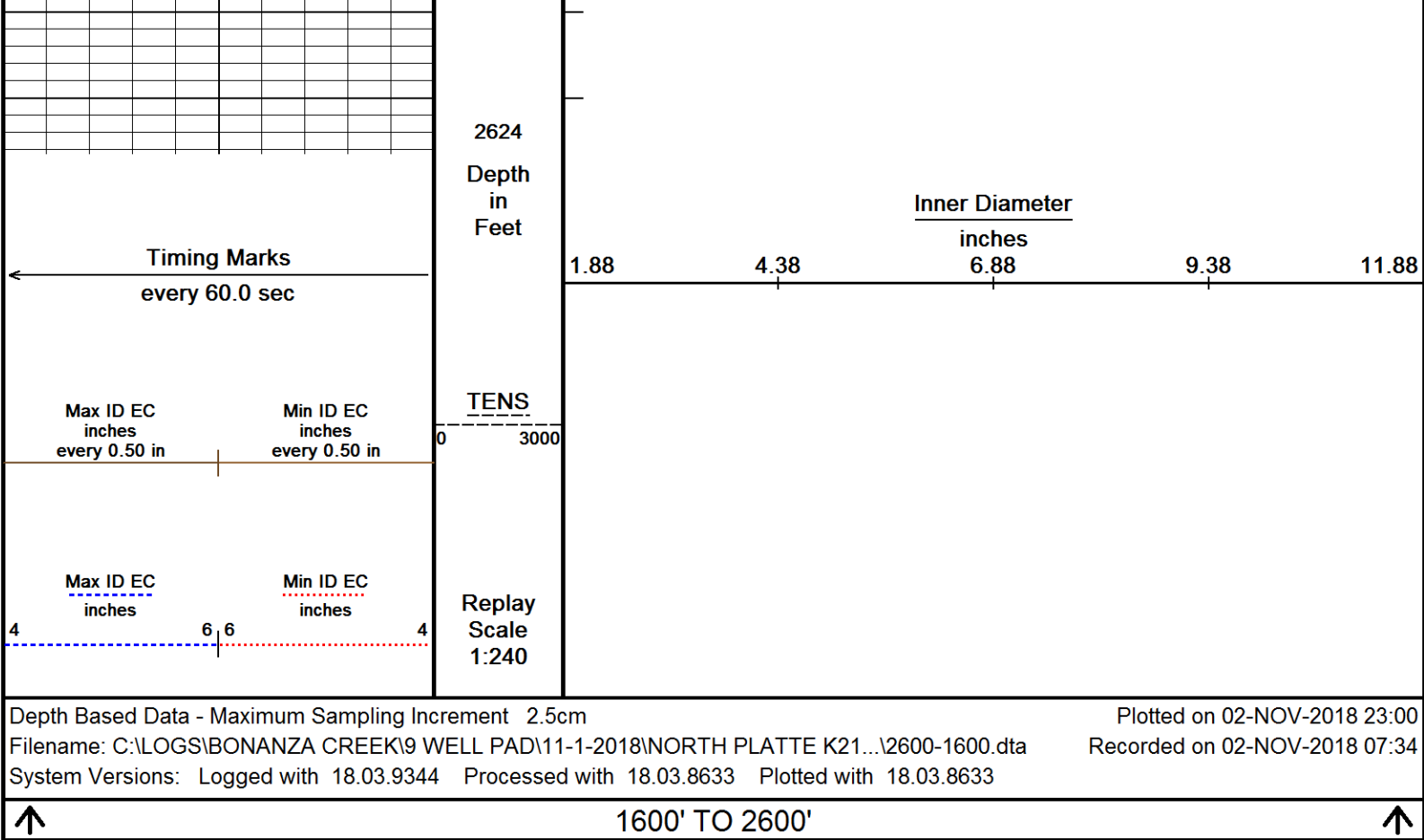
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2500

2550

2600





SHOP AND FIELD CALIBRATIONS						
C:\LOGS\BONANZA CREEK\9 WELL PAD\11-1-2018\NORTH PLATTE K21-O24-28 HNB\MSC\2600-1600.dta						
MSC-AA 127						
Field calibration on 29-OCT-2018 10:38						
Field calibration						
Tool Type MSC-AA Tool S/N 127 Cal. Ring S/N						
standard [IN]						
Span 1 Span 2 Span 3 Span 4						
4.00 to 4.75 4.75 to 5.50 5.50 to 6.25 6.25 to 7.00						
Arm #	4.00 (Bits)	Span 1	Span 2	Span 3 (Cnts/IN)	Span 4	Average
1	14955	21810.67	22285.33	22498.67	23272.00	22466.67
2	12953	23077.33	23757.33	24192.00	25338.67	24091.33
3	15091	22674.67	23133.33	23608.00	24653.33	23517.33
4	11473	22712.00	23274.67	23549.33	24672.00	23552.00
5	15744	22738.67	22994.67	23208.00	24205.33	23286.67
6	16056	22413.33	22861.33	23234.67	24488.00	23249.33
7	12937	23517.33	23914.67	23992.00	24938.67	24090.67
8	9330	22570.67	23101.33	23170.67	24125.33	23242.00
9	16156	22520.00	22901.33	23146.67	24336.00	23226.00
10	14125	23040.00	23456.00	23704.00	24944.00	23786.00

11	15856	23472.00	23730.67	24026.67	25104.00	24083.33
12	14865	23349.33	23440.00	23720.00	24746.67	23814.00
13	16233	23981.33	23706.67	23778.67	24978.67	24111.33
14	13480	23720.00	23373.33	23309.33	24333.33	23684.00
15	14676	23432.00	23376.00	23597.33	24640.00	23761.33
16	14187	23362.67	23205.33	23469.33	24693.33	23682.67
17	15575	23674.67	23013.33	23304.00	24245.33	23559.33
18	15043	22525.33	22280.00	22632.00	23754.67	22798.00
19	17346	22781.33	22501.33	22888.00	23850.67	23005.33
20	11766	23429.33	23186.67	23477.33	24325.33	23604.67
21	10768	23696.00	23042.67	22762.67	23234.67	23184.00
22	15078	22858.67	22522.67	22917.33	23896.00	23048.67
23	14520	23125.33	22736.00	23101.33	23896.00	23214.67
24	11946	23392.00	23376.00	23610.67	24402.67	23695.33
25	14766	23362.67	23378.67	23648.00	24362.67	23688.00
26	16985	22309.33	22240.00	22629.33	23506.67	22671.33
27	17203	23082.67	23050.67	23509.33	24298.67	23485.33
28	16430	23253.33	23186.67	23765.33	24794.67	23750.00
29	14568	22858.67	22818.67	23125.33	24128.00	23232.67
30	15233	22602.67	22600.00	22949.33	23674.67	22956.67
31	14625	23277.33	22733.33	23069.33	23610.67	23172.67
32	16095	21909.33	22122.67	22768.00	23944.00	22686.00
33	16988	22466.67	23104.00	23466.67	24200.00	23309.33
34	14561	22573.33	23013.33	23536.00	24360.00	23370.67
35	16473	22629.33	22968.00	23480.00	24408.00	23371.33
36	14169	22800.00	23218.67	23600.00	24285.33	23476.00
37	14671	22626.67	22605.33	22821.33	23496.00	22887.33
38	16765	22005.33	22632.00	23368.00	24541.33	23136.67
39	14402	22877.33	23560.00	23920.00	24832.00	23797.33
40	13962	22637.33	23298.67	23832.00	25048.00	23704.00

Deviation Calibration

	-g		0g		+g	
X	-2000.0	mv	0.0	mv	2000.0	mv
Y	-2000.0	mv	0.0	mv	2000.0	mv

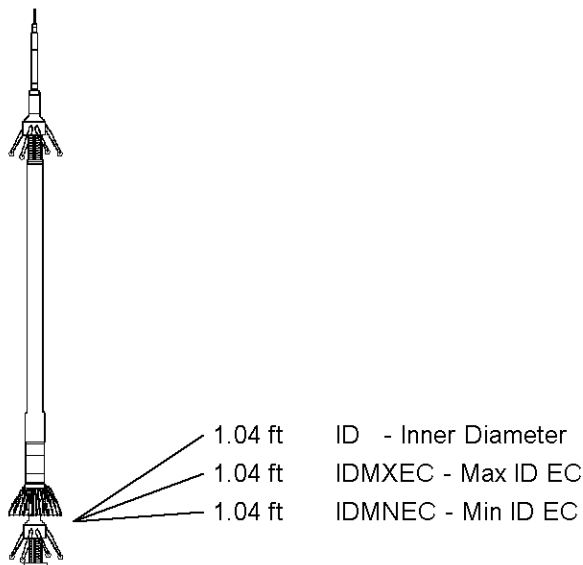
DOWNHOLE EQUIPMENT

C:\LOGS\BONANZA CREEK\9 WELL PAD\11-1-2018\NORTH PLATTE K21-O24-28 HNB\MSC\2600-1600.dta

Mono-Cablehead
MCH-AA 0 LG: 1.03 ft WT: 2.2 lb OD: 1.457 in

Multi Sensor Caliper, 40 Arm
MSC-AA 127 LG: 7.30 ft WT: 123.5 lb OD: 3.622 in

Total Length: 8.33 ft Weight: 125.7 lb






0.00 ft TENS - Tension
Tool Zero (0.00ft from bottom)

All measurements relative to tool zero.

COMPANY	BONANZA CREEK ENERGY
WELL	NORTH PLATTE K21-O24-28 HNB
FIELD	WATTENBERG
PROVINCE/COUNTY	WELD
COUNTRY/STATE	USA / COLORADO

Elevation Kelly Bushing	4565	feet	Bottom Log Interval	2608.00	feet
Elevation Drill Floor	4565	feet	Depth Driller	12169.00	feet
Elevation Ground Level	4548	feet	Depth Logger	2608.00	feet


Weatherford[®]

SECUREVIEW
CALVIEW
CASING ANALYSIS LOG