

Casing Inspection

Company	Client Name
Well	Well 1
Field	N/A
County	Harris
State	TX
API#	00-000-00000
Log Date	07/01/2025
Top of Log	18.9'
Bottom of Log	11292.4'
ECCE Corrected	YES
Bad Fingers	NO
Logged by	JT3
Witnessed by	Company Man
Location	Houston, TX
Processed by	JT3 DCS, Houston TX
Contact	Tim Ogle



Casing	Size	Weight	From	To
Record	(in)	(lb/ft)	(Ft)	(Ft)
Surface			Surface	
Production			Surface	
Tubing	2.375"	4.6#	Surface	11341.42'

Any interpretation of logs or survey, either through optical or electronic processing means or otherwise, or any recommendation or description of any reservoir based on such interpretation of other data, are opinions based upon measurements, assumptions and empirical relationships, which inferences and assumptions are not incapable of error. We cannot and do not guarantee the accuracy, correctness or completeness of such interpretations, recommendations or descriptions and Company agrees that we shall not be liable or responsible for any loss, cost, damage or expense accrued or sustained by Company resulting directly or indirectly therefrom. Under no circumstances should any such interpretation, recommendation, or description be relied upon as the basis for any procedure conducted in or on a well which involves any risk to the safety of personnel, equipment or venture. Company shall always have full responsibility for such decisions and for all decisions concerning other procedures relating to drilling, completion or production operations.

Interpretation Summary

Internal inspection was carried out with the 24 Arm Caliper.

MFC

Depth interval processed: 21.9' - 11289.4'. Number of joints processed: 360 Joints.

There are 271 joints of class 1 corrosion (0% - 20%),
84 joints of class 2 corrosion (20% - 40%),
4 joints of class 3 corrosion (40% - 60%),
1 joints of class 4 corrosion (60% - 80%),
0 joints of class 5 corrosion (80% - 100%)

The worst Penetration is 74.4% (0.146 in) in Joint 226 at a depth of 7099.60 Ft

The worst Showing Metal Loss is 17.2% in Joint 226

=====

The worst Penetrations and Projections are shown in the tables below

The Well Log, the corresponding charts, diagrams, and well trajectory, are shown below

Processed By: JT3 Data Consulting Services, Houston TX.

Contact: Tim Ogle (346) 617-0639 JT3.DCS@gmail.com

Table of Contents

Feature	View Type	Joints	Depth(Ft)
Title Page			
Additional Wellsite Information			
Measured Logs			
Multi-Finger Caliper Logging			
Toolstring Diagram	Chart		
2-3/8" 4.6 Tubing			
Graded Joints - Wall Loss %	Chart		
2-3/8" 4.6 Tubing			
Graded Joints - Penetration %	Chart		
Joint 226 - 74.4% Penetration	Chart		
Joint 231 - 50.6% Penetration	Chart		
Joint 229 - 50.0% Penetration	Chart		
Gas Lift Vavle	Chart		
Joint Summary	Table		
Curve Description	Table		
Well Log. Scale 1 : 240	Well Log		
Appendix A - Report Terms	Help		
Appendix B - Elongated Collars	Help		

Measured Logs

This interpretation is based on Data Recorded with the use of a Multi-Finger Caliper Tool. The MFC is used to detect casing deformation, bending, fractures, holes, and inner wall corrosion by using independent measuring fingers. The logging data is processed to provide casing inner face imaging, circumferential profile imaging, and cylindrical three dimensional imaging to clearly reflect casing integrity. This approach enables inside casing wear or damage detection. The inside diameter of pipe is calculated based on multi-finger caliper measurement.

Before Interpretation, The MFC data is checked for Calibrations, Pre & Post Verifications, and Anomalies encountered during the logging process.

Critical Note: It is extremely important that we have all of the information available about the well and the problem that is being investigated, the data collected is critical and it is important that all of the Calibration and Verification steps be followed

Multi-Finger Caliper Logging

Multi-Finger Caliper (MFC) logging uses multiple measuring arms to record inner diameter of the casing wall. The arms independently measure radius between middle tool axis and casing wall. The MFC survey shows quantity of inside wall damage as well as position of damage. The Caliper survey will determine the extent of wear and corrosion, and detect holes inside casing or tubing string.

The Multi-Finger Caliper has 24, 40, 56 and 60 "measuring arms", upon number of arms depends tools diameter and maximum casing diameter. Calipers should be centralized during operation allowing all measuring fingers to be connected to inner casing wall. Some tool models themselves contain roller stabilizers, but the recommendation is to have at least two roller or spring centralizers in vertical holes and four in very deviated or horizontal well bores. Each caliper finger is connected to an independent non-contact displacement LVDT Sensor that features small sizes, long service life, and high measurement accuracy. The MFC transmits all arms independently over wireline, as well as head voltage, well inclination, azimuth and temperature. Data regarding minimum, maximum and average inner diameter are recorded in a database, in real time during operations.

Each measuring finger has a carbide tip to protect the area of greatest wear. As the caliper moves over casing, the measuring arms follow the contour of the casing inside wall. When measuring fingers are opened or closed, the mechanical actuating mechanism of the tool convert the radial movement of the measuring finger to axial displacement of the iron core of placement transducer. Displacement of inner core is converted to output electrical signal as a result of the axial iron core displacement of placement transducer. Signal is subsequently enter A/D converter and as telemetry signal sent to surface logging equipment.

Advances in technology has produced Multi-Finger Calipers capable of Memory Operations. This expands the calipers capability to Slickline and Coil Tubing operations. Typically the Memory Controller is programmed and powered by a high capacity lithium battery. The memory toolstring is run in hole in conjunction with a Time Depth Controller. Data vs. Time, and Time vs. Depth data are combined post logging to produce the Multi-Finger Caliper Log.

Data discrepancies can arise due to changes in logging methods, speed, or pipe properties because these factors directly influence how data is captured, processed, and interpreted. Here is a brief explanation:

1. Logging Method: Changes in the tools, sensors, or algorithms used to record data can alter the way information is collected, introducing variations.
2. Speed of Data Collection: If the speed at which data is logged changes (e.g., increasing sampling rates), it can capture more detailed variations in the system, which may not have been apparent before.
3. Pipe Properties: Variations in pipe material, size, roughness, or age can affect the data captured. These physical changes can lead to different data outputs, even under similar operating conditions.

Data inconsistencies in well logging using a Multi-Finger Caliper tool can arise due to several factors:

1. Tool Position in the Well: If the caliper tool is not centralized or is tilted within the wellbore, the measuring fingers may not accurately contact the wellbore wall. This leads to irregular or incomplete measurements, particularly in non-circular boreholes.
2. Tool Rotation: The caliper tool will rotate due to the forces applied by the wireline cable, this will effect the data collected as the measuring fingers may not follow the exact path as previous logging runs.
3. Distance Between Measuring Fingers: The spacing of the caliper fingers affects the resolution of the measurement. Wider spacing might miss small-scale irregularities, while closely spaced fingers may provide more detailed data. If the spacing is inconsistent, it can lead to gaps or overlaps in the recorded data.
4. Logging Speed: The speed at which the caliper tool moves through the well affects the frequency of data acquisition. If the logging speed is too fast, the tool might skip over subtle changes in the borehole geometry, leading to inaccurate or incomplete data. Conversely, slow logging speeds provide more detailed measurements but increase operation time and cost.

Together, these factors can result in data inconsistencies when comparing historical and current datasets.

Toolstring Diagram

Sensor	Offset (ft)	Schematic	Description	Length (ft)
			WS_WTC-WTC51 (8060-WTC51) Hunting WS 1 11/16" Telemetry	1.80
CRCCnt	8.74			
FrmCnt	8.74			
WTSTime	8.74			
WTSTemp	8.74			
CHV	8.74		WS_RCT-RCT11 (8070-RCT11) Hunting WS 1-11/16" Single Roller Centralizer (3-arm)	2.05
Meas	4.45		WS_MCT-MCT41 (8020-MCT41) Hunting WS 1 11/16" Multi-finger Caliper Tool-24 Finger	4.38
MFCBEAR	2.30			
MFCACCY	2.30			
MFCACCX	2.30			
Aux1	2.30		WS_RCT-RCT11 (RCT11-XXXXXX) Hunting WS 1-11/16" Single Roller Centralizer (3-arm)	2.05
			WS_BWS-BWS_168 Hunting WS 1-11/16" Bull Nose Pressure Cap	0.25

Hunting Titan WS Pipe Integrity Suite_35K: String length: 10.54 ft Weight: 42.68 lb Max. O.D.: 1.69 in

Log Quality & Parameters

Company	Client Name
Well	Well 1
Log Date	7/1/2025



Run 1:	Ran in hole with 24-Arm Caliper
Run 2:	

Grade	Wall Loss %
1	0-12.5%
2	12.5->20%
3	20->40%
4	40->60%
5	60->80%
6	80->100%

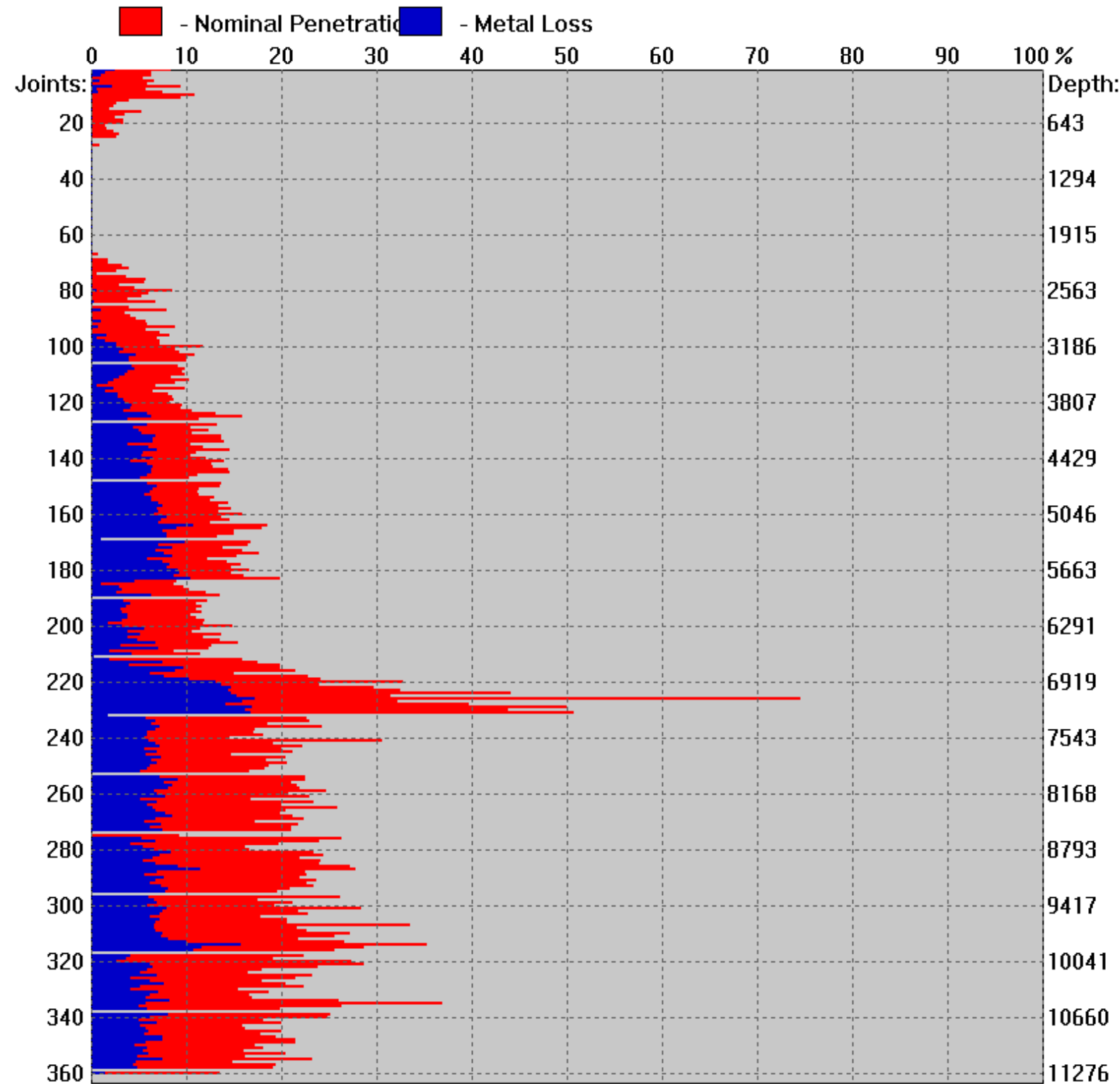
Client Supplied Data	Log Quality Control	Interpretation Parameters
☒ .LAS File	☒ Before Calibration	☒ Default Grading
☒ Field Print	☒ After Calibration	☐ Client Specified Grading
☐ Job Log	☒ Collars Detected	☐ Data Merge
☒ Wellbore Diagram	☒ Acceptable Centralization	☐ Depth Corrected
☒ Completion Report	☒ Excentralization Required	☒ ECCE Corrected
☐ Cement Bond Log	☐ Bad Fingers	☐ Bad Fingers Corrected
☒ Database .db	☐ Tool Sticking	☒ Data Filtering

Grade	Penetration %
1	0->10%
2	10->25%
3	25->50%
4	50->75%
5	75->100%

Gas Lift:	Reported	Detected	Reported	Detected
#1	11275.30'	11268' WLM	#9	6024.23' 5978' WLM
#2	10622.00'	10600' WLM	#10	5372.49' 5325' WLM
#3	9968.78'	9959' WLM	#11	4715.71' 4675' WLM
#4	9315.47'	9302' WLM	#12	4064.70' 4022' WLM
#5	8630.69'	8613' WLM	#13	3407.14' 3369' WLM
#6	7978.02'	7956' WLM	#14	2750.47' 2715' WLM
#7	7325.02'	7298' WLM	#15	1702.02' 1671' WLM
#8	6673.06'	6639' WLM		

MFC - Depth Profile

MFC Penetration and Metal Loss Depth Profile



Number of Joints: 360

2-3/8" 4.6# Tubing

Graded Joints - Wall Loss %

2.375 in Casing OD
 4.6 # Casing Weight
 1.995 in Casing ID
 0.190 in Wall Thickness
 0.166 in MIN Wall Thickness API

Grade	Wall Loss %
1	0->20%
2	20->40%
3	40->60%
4	60->80%
5	80->100%

Grade	Joints
1	342
2	18
3	0
4	0
5	0

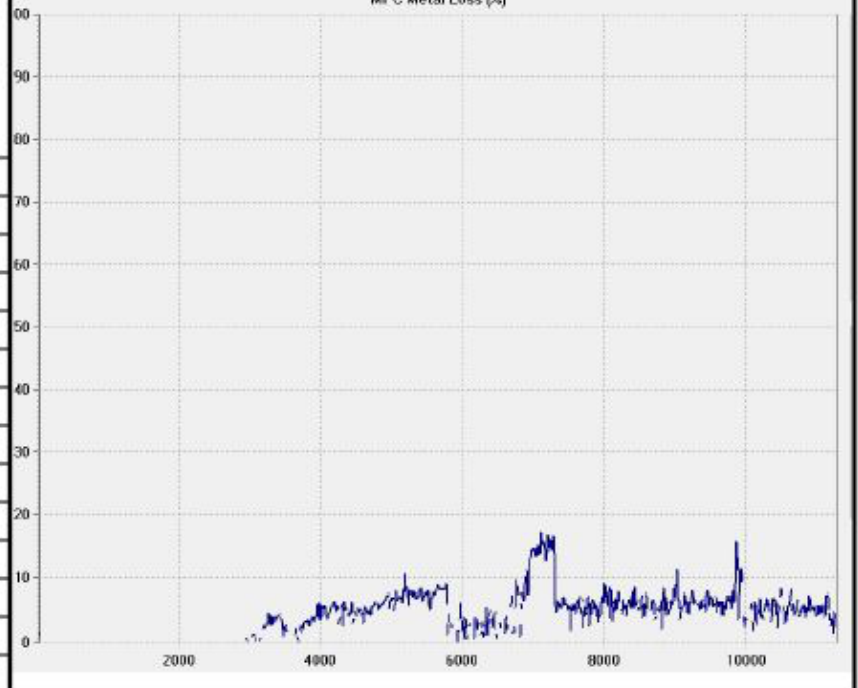
360

Showing Metal Loss 17.2% in Joint 226
Showing Metal Loss 16.8% in Joint 229
Showing Metal Loss 16.7% in Joint 231
Showing Metal Loss 16.1% in Joint 230
Showing Metal Loss 15.8% in Joint 227
Showing Metal Loss 15.7% in Joint 314
Showing Metal Loss 15.2% in Joint 225
Showing Metal Loss 14.6% in Joint 222
Showing Metal Loss 14.6% in Joint 224
Showing Metal Loss 14.4% in Joint 223
Showing Metal Loss 14.0% in Joint 228
Showing Metal Loss 13.2% in Joint 220
Showing Metal Loss 13.0% in Joint 221
Showing Metal Loss 11.5% in Joint 315
Showing Metal Loss 11.4% in Joint 287

Graded Joints MFC - Wall Loss %



MFC Metal Loss (%)



2-3/8" 4.6# Tubing

Graded Joints - Penetration %

2.375 in Casing OD
4.6 # Casing Weight
1.995 in Casing ID
0.190 in Wall Thickness
0.166 in MIN Wall Thickness API

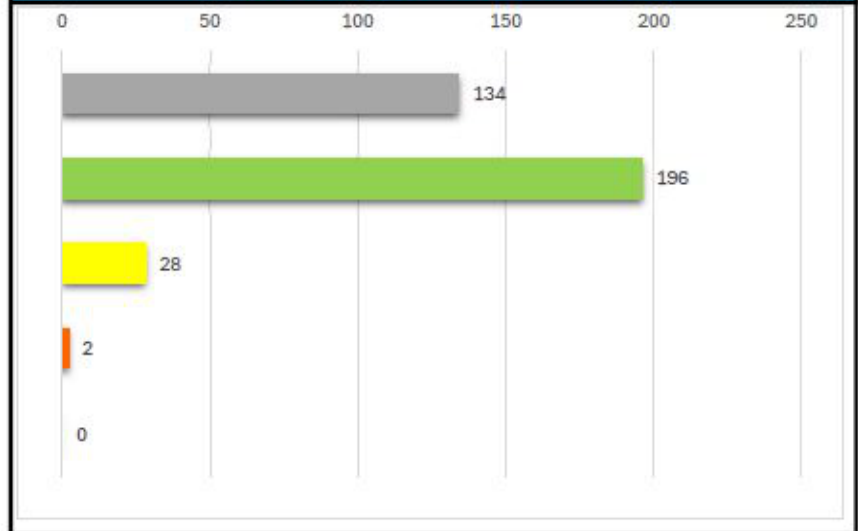
Grade	Penetration %
1	0->10%
2	10->25%
3	25->50%
4	50->75%
5	75->100%

Grade	Joints
1	134
2	196
3	28
4	2
5	0

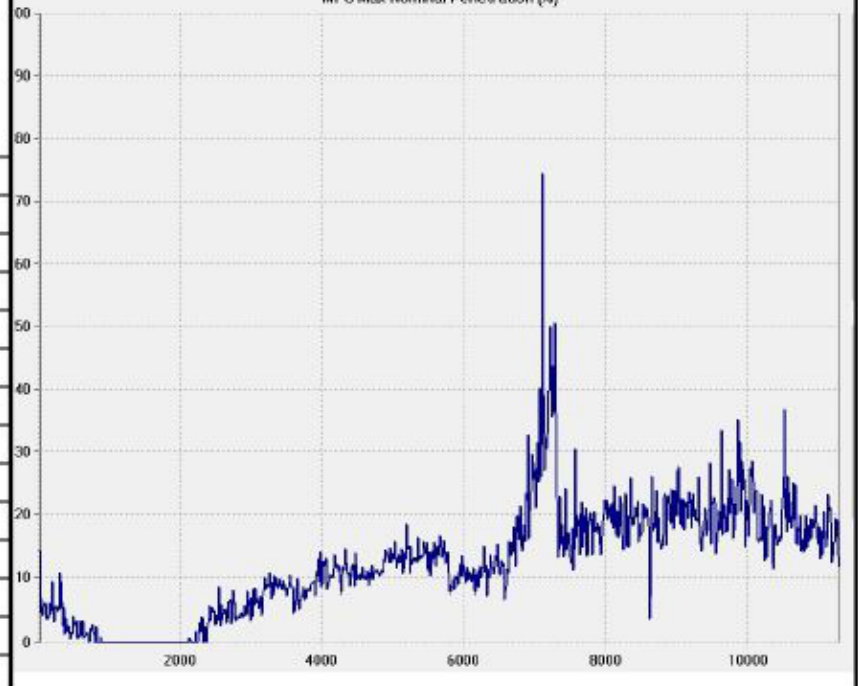
360

Penetration 74.4% (0.146 in) in Joint 226 at depth 7099.60 Ft
Penetration 50.6% (0.099 in) in Joint 231 at depth 7284.90 Ft
Penetration 50.0% (0.098 in) in Joint 229 at depth 7211.00 Ft
Penetration 44.0% (0.086 in) in Joint 224 at depth 7064.80 Ft
Penetration 43.7% (0.086 in) in Joint 230 at depth 7250.70 Ft
Penetration 39.7% (0.078 in) in Joint 228 at depth 7195.40 Ft
Penetration 36.8% (0.072 in) in Joint 335 at depth 10511.60 Ft
Penetration 35.2% (0.069 in) in Joint 314 at depth 9861.60 Ft
Penetration 33.4% (0.065 in) in Joint 307 at depth 9630.50 Ft
Penetration 32.7% (0.064 in) in Joint 220 at depth 6903.60 Ft
Penetration 32.5% (0.064 in) in Joint 223 at depth 7032.20 Ft
Penetration 32.1% (0.063 in) in Joint 227 at depth 7156.00 Ft
Penetration 31.4% (0.062 in) in Joint 225 at depth 7066.90 Ft
Penetration 30.4% (0.06 in) in Joint 241 at depth 7564.70 Ft
Penetration 29.6% (0.058 in) in Joint 222 at depth 6969.40 Ft

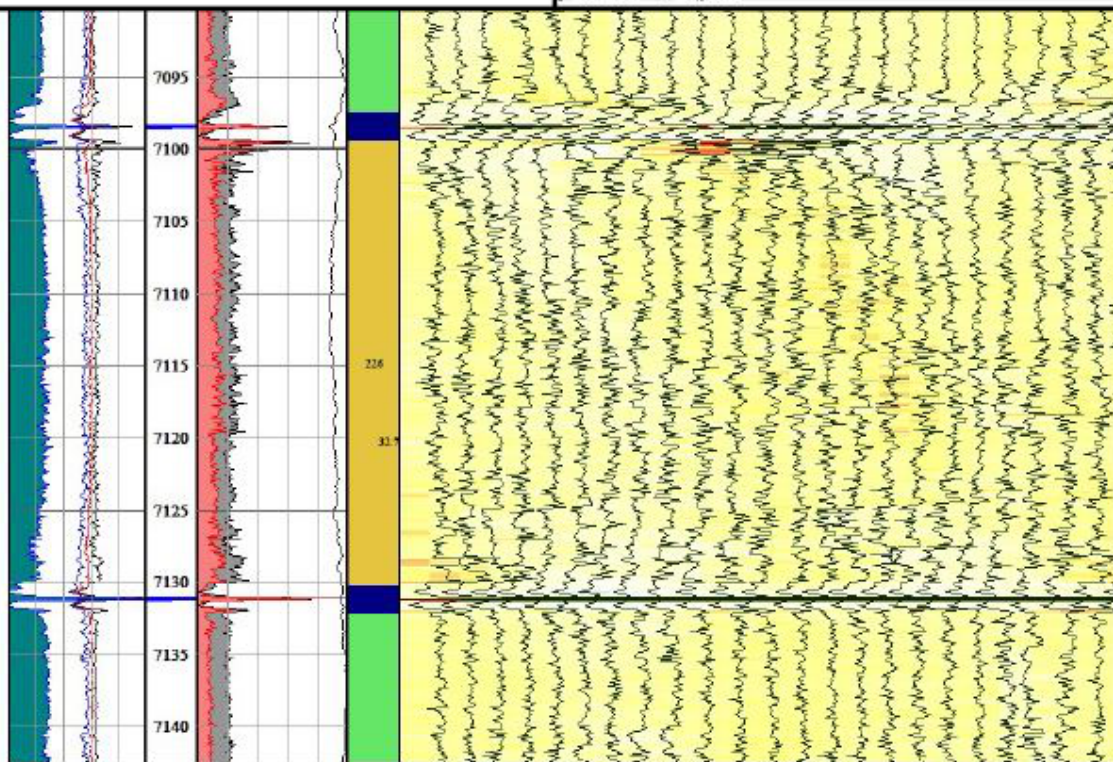
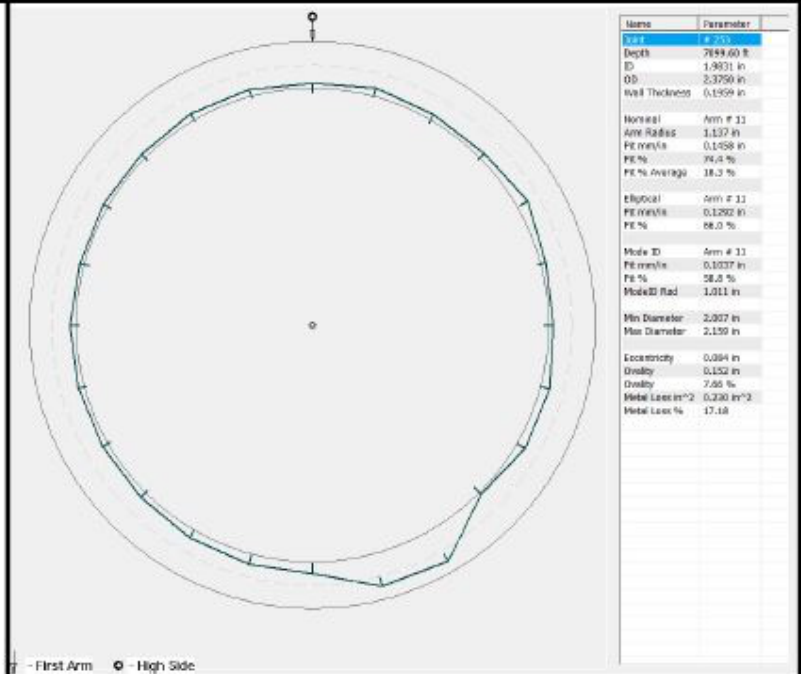
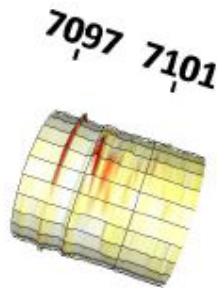
Graded Joints MFC - Penetration %



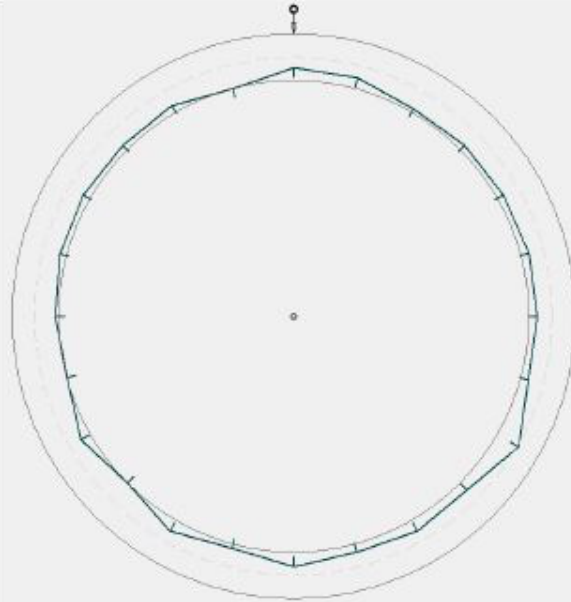
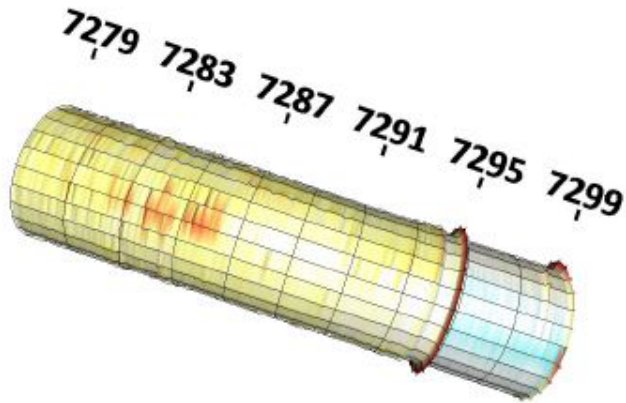
MFC Max Nominal Penetration (%)



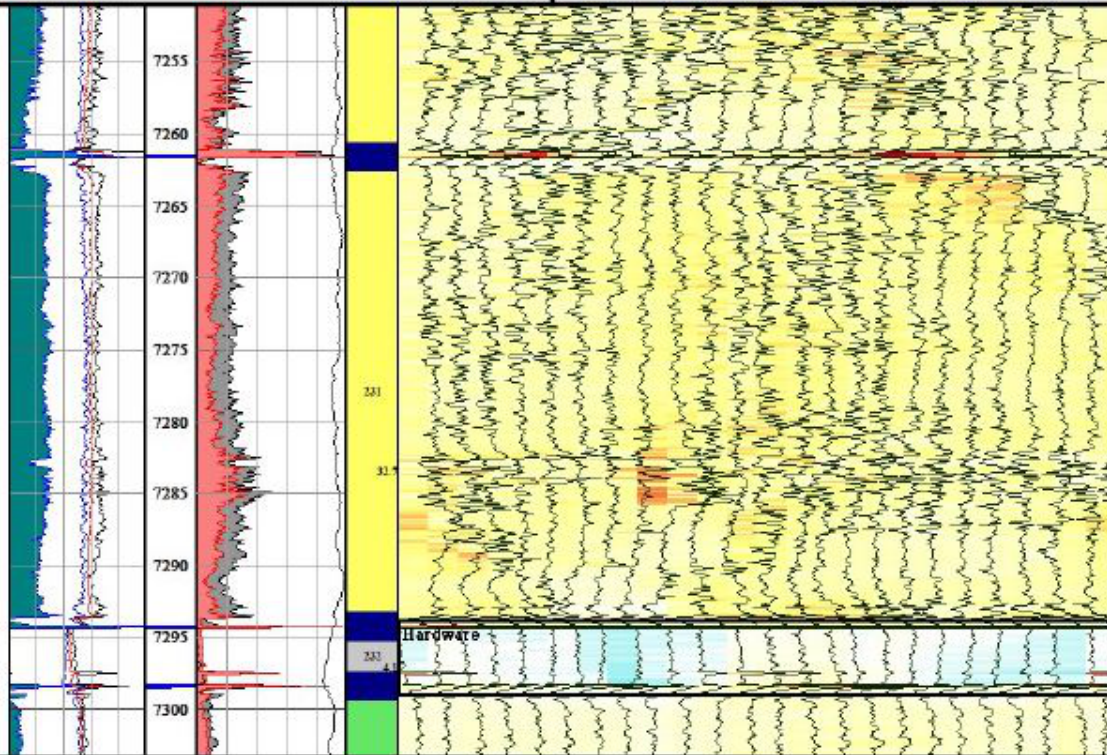
Joint 226 - 74.4% Penetration



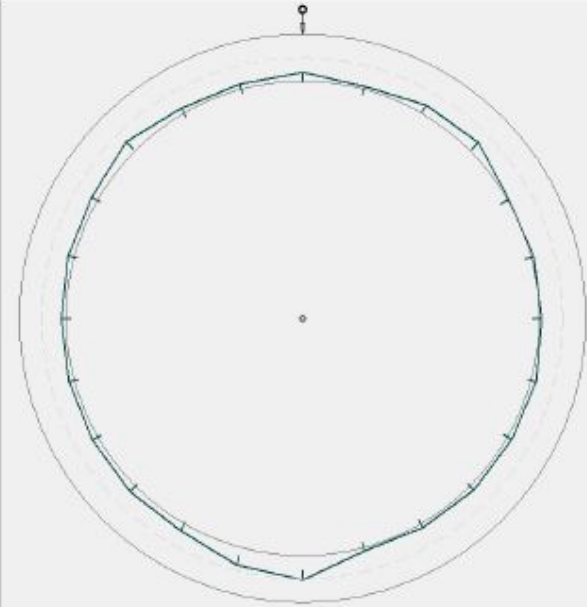
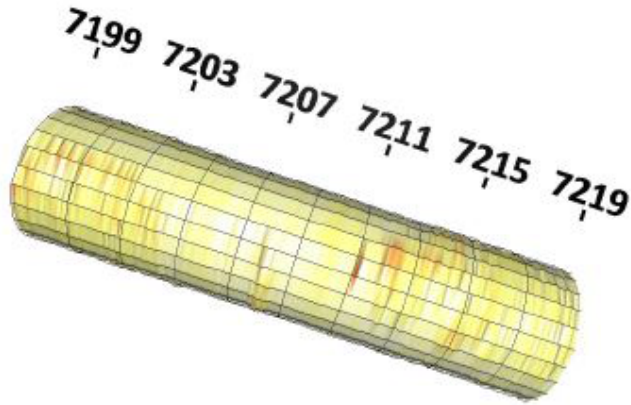
Joint 231 - 50.6% Penetration



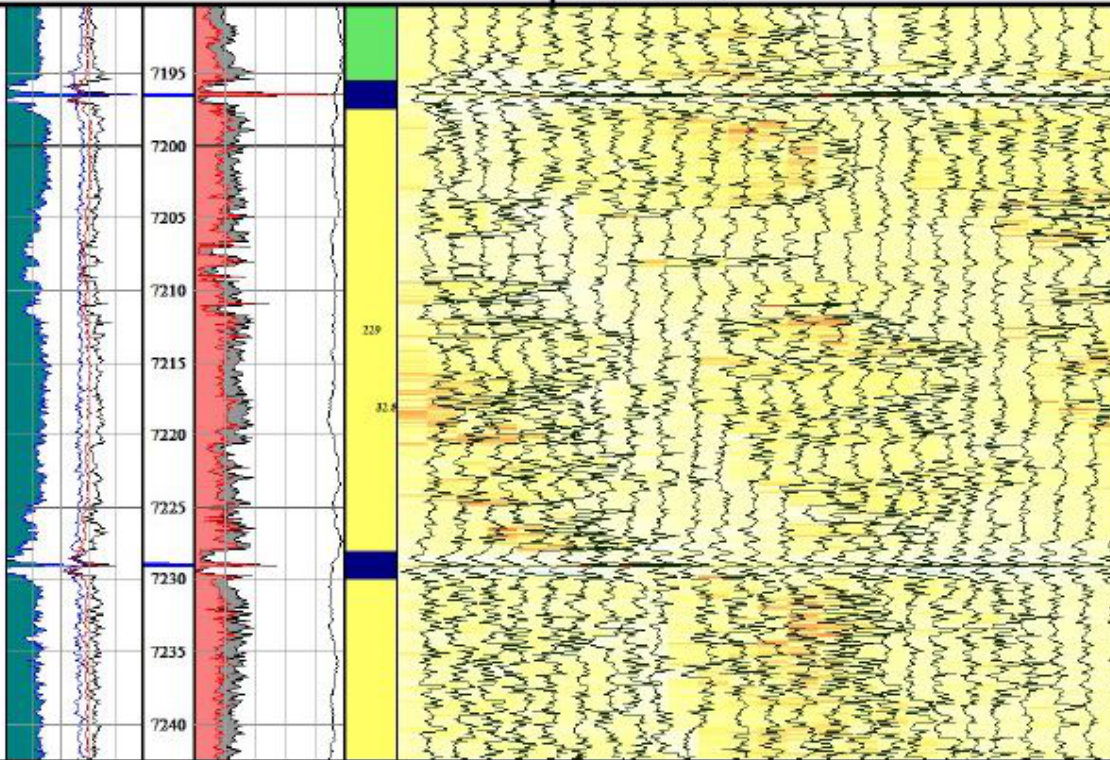
Item	Parameter
1	7279
Depth	7284.90 ft
ID	1.9071 in
OD	2.3750 in
Wall Thickness	0.1959 in
Normal	Arm # 5
Arm Radius	1.092 in
PE mm/s	0.0991 in
PE %	50.6 %
PE % Average	13.6 %
Elliptical	Arm # 5
PE mm/s	0.0945 in
PE %	48.2 %
Moist ID	Arm # 5
PE mm/s	0.0904 in
PE %	38.3 %
Moist ID Rad	1.014 in
Min Diameter	2.006 in
Max Diameter	2.112 in
Locusticity	0.020 in
Gravelly	0.002 in
Gravelly	5.38 %
Moist Loss in ²	0.185 in ²
Moist Loss %	14.51



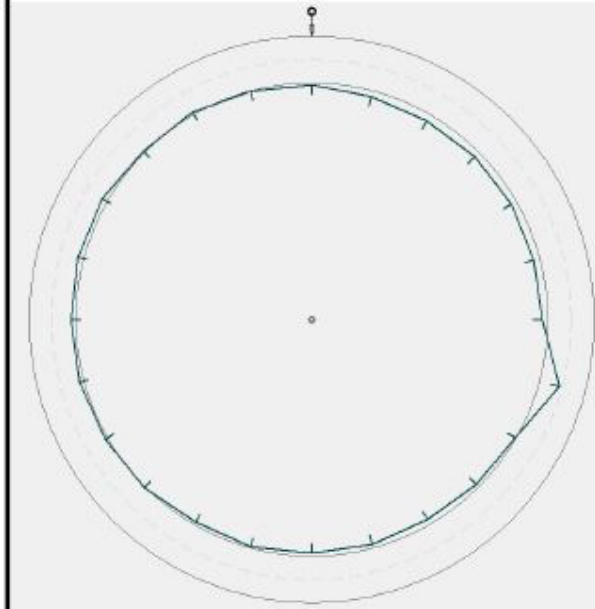
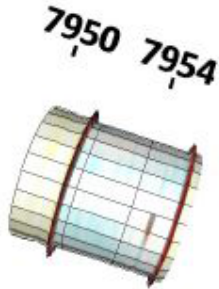
Joint 229 - 50.0% Penetration



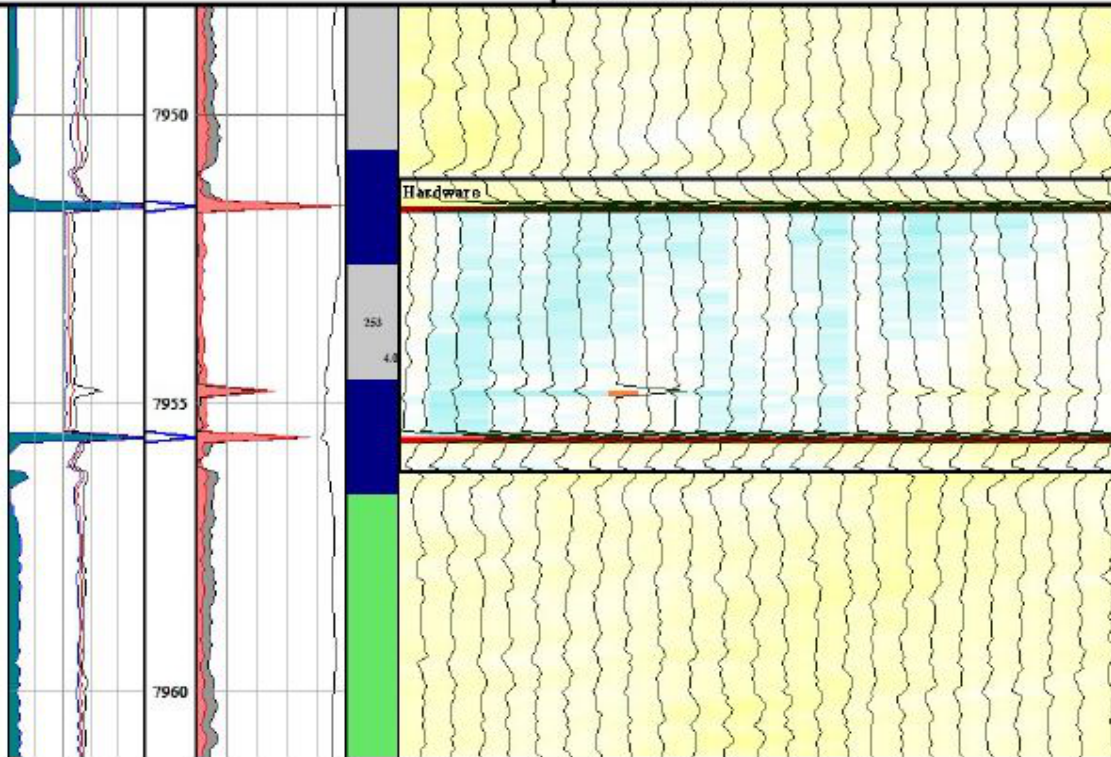
Items	Parameter
Top	7211.00 ft
Depth	7211.00 ft
ID	1.9071 in
OD	2.3750 in
Wall Thickness	0.1959 in
Normal	Arm # 13
Arm Radius	1.099 in
PE mm/s	0.0559 in
PE %	58.0 %
PE % Average	13.7 %
Hydrocal	Arm # 13
PE mm/s	0.0838 in
PE %	42.8 %
Mode ID	Arm # 13
PE mm/s	0.0714 in
PE %	48.3 %
Mode ID Rad	1.010 in
Min Diameter	2.035 in
Max Diameter	2.117 in
Locanority	0.094 in
Orality	0.112 in
Orality	5.94 %
Metals Losses ²	0.171 in ²
Metals Loss %	42.73



Gas Lift Valve



Items	Parameter
Item #	7950
Depth	7954.80 ft
ID	1.9031 in
OD	2.3750 in
Wall Thickness	0.1559 in
Horizontal	Arm # 0
Arm Radius	1.024 in
PE mm/s	0.0520 in
PE %	61.0 %
PE % Average	-2.8 %
Elliptical	Arm # 0
PE mm/s	0.0940 in
PE %	52.7 %
Mode ID	Arm # 0
PE mm/s	0.1102 in
PE %	52.1 %
Mode ID Rad	0.876 in
Min Diameter	1.826 in
Max Diameter	2.006 in
Locomotion	0.122 in
Orality	0.151 in
Orality	7.61 %
Metals Loss in ²	-0.830 in ²
Metals Loss %	-3.21



Joint Summary

1	Class 1	0 - 12.5 %
2	Class 2	12.5 - 20 %
3	Class 3	20 - 25 %
4	Class 4	25 - 50 %
5	Class 5	50 - 75 %
6	Class 6	75 - 100 %

Joint	Depth	Depth	Joint	Corrosion	Max Pit	Max Pit	Max Pit	Metal	Metal	Ovality	Ovality	Ovality	Eccentr	Min	Max	Min Diam
Number	From	To	Length	Class	Nominal	Nominal	Position	Loss	Loss Pos	Level	Level	Position	Level	Diameter	Diameter	Position
#	Ft	Ft	Ft	#	%	in	Ft	%	Ft	in	%	Ft	in	in	in	Ft
1	23	43.7	20.7	1	8.3	0.016	33.9	1.6	40.3	0.034	1.7	26.7	0.072	1.963	2.009	40
2	43.7	75.1	31.4	1	6.2	0.012	45.7	1.4	44.7	0.041	2.1	45.3	0.068	1.941	2.004	73.2
3	75.1	107.5	32.4	1	6.2	0.012	96.3	1	77.8	0.049	2.5	105.7	0.073	1.946	2	105.6
4	107.5	140.3	32.8	1	5.3	0.01	109.2	0	123.9	0.054	2.7	139.3	0.067	1.907	1.998	139.4
5	140.3	172.8	32.5	1	6.5	0.013	171.8	0.8	171.7	0.05	2.5	170.4	0.063	1.923	2.004	171.9
6	172.8	204.4	31.6	1	5.8	0.011	189.2	0	188.6	0.057	2.9	202.9	0.064	1.934	2	203.2
7	204.4	236.6	32.2	1	9.4	0.018	205.5	2.2	205.5	0.06	3	205.4	0.077	1.934	2.014	235.3
8	236.6	270	33.4	1	5.7	0.011	245.2	0.5	243.5	0.04	2	262.3	0.087	1.915	1.999	269.1
9	270	302.1	32.1	1	7.4	0.015	300.4	0.7	274.7	0.044	2.2	300.4	0.072	1.949	2.002	300.1
10	302.1	334.5	32.4	1	10.7	0.021	303.9	0	318.3	0.058	2.9	303.8	0.098	1.937	2.008	332.7
11	334.5	367.6	33.1	1	9.3	0.018	336.5	0	351.1	0.055	2.8	336.4	0.113	1.918	2.002	366.5
12	367.6	399.5	31.9	1	3.8	0.008	397.6	0	383.6	0.048	2.4	397.6	0.1	1.938	1.986	397.6
13	399.5	432.1	32.6	1	2.6	0.005	426.7	0	415.8	0.039	2	401.5	0.099	1.935	1.987	401.4
14	432.1	464.6	32.5	1	2.3	0.004	433.9	0	448.4	0.04	2	463.6	0.093	1.936	1.982	433.8
15	464.6	497.3	32.7	1	1.9	0.004	489.7	0	481	0.037	1.9	466.2	0.11	1.937	1.989	483.9
16	497.3	529.6	32.3	1	5.3	0.01	528.7	0	513.5	0.05	2.5	498.9	0.064	1.931	1.99	499
17	529.6	562.1	32.5	1	3.4	0.007	543.6	0	545.9	0.035	1.8	538.5	0.076	1.936	1.988	531.4
18	562.1	594.6	32.5	1	2.5	0.005	588.7	0	578.4	0.048	2.4	592.8	0.076	1.933	1.984	576
19	594.6	626.8	32.2	1	3.4	0.007	599.3	0	610.7	0.043	2.2	596.4	0.072	1.937	1.986	596.4
20	626.8	659.1	32.3	1	3.3	0.006	628.8	0	643	0.04	2	629	0.072	1.931	1.985	657.8
21	659.1	691.6	32.5	1	1.4	0.003	682.4	0	675.4	0.044	2.2	660.5	0.071	1.9	1.984	660.2
22	691.6	724.7	33.1	1	1.5	0.003	697.5	0	708.2	0.043	2.2	692.9	0.076	1.928	1.978	694
23	724.7	756.9	32.2	1	2.2	0.004	743.4	0	740.8	0.041	2.1	755.6	0.073	1.93	1.979	726.6
24	756.9	789.2	32.3	1	2.8	0.006	770.4	0	773.1	0.05	2.5	758	0.075	1.927	1.987	768.8
25	789.2	822.4	33.2	1	2.5	0.005	821.3	0	805.8	0.054	2.7	821.3	0.069	1.89	1.98	821.5
26	822.4	856.1	33.7	1	0	0	21.9	0	839.3	0.039	2	842.6	0.072	1.894	1.974	854.1
27	856.1	886.5	30.4	1	0	0	885.3	0	871.3	0.053	2.7	885	0.072	1.923	1.977	885
28	886.5	921	34.5	1	0.7	0.001	887.8	0	903.8	0.05	2.5	887.8	0.067	1.894	1.978	918.9
29	921	951.6	30.6	1	0	0	21.9	0	936.3	0.039	2	942.4	0.058	1.914	1.968	945.5
30	951.6	984.7	33.1	1	0	0	21.9	0	968.2	0.04	2	983.6	0.064	1.907	1.967	983.8
31	984.7	1016.6	31.9	1	0	0	21.9	0	1000.7	0.046	2.3	1015.1	0.07	1.908	1.964	1015.1
32	1016.6	1049.8	33.2	1	0	0	21.9	0	1033.2	0.044	2.2	1048.7	0.064	1.893	1.966	1048.9
33	1049.8	1081.6	31.8	1	0	0	21.9	0	1065.7	0.034	1.7	1058.8	0.067	1.914	1.963	1051.4
34	1081.6	1115.9	34.3	1	0	0	21.9	0	1098.8	0.039	2	1112.6	0.07	1.889	1.965	1114.9
35	1115.9	1147.7	31.8	1	0	0	21.9	0	1131.8	0.053	2.7	1146.2	0.07	1.886	1.959	1146.4
36	1147.7	1179.1	31.4	1	0	0	21.9	0	1163.4	0.044	2.2	1177.7	0.068	1.907	1.964	1177.7

37	1179.1	1211.7	32.6	1	0	0	21.9	0	1195.4	0.041	2.1	1180.2	0.071	1.908	1.973	1210.2
38	1211.7	1244.2	32.5	1	0	0	21.9	0	1228	0.04	2	1242.7	0.073	1.906	1.957	1240.5
39	1244.2	1277.6	33.4	1	0	0	21.9	0	1260.9	0.043	2.1	1276.2	0.08	1.891	1.955	1276.5
40	1277.6	1309.8	32.2	1	0	0	21.9	0	1293.7	0.039	2	1308.8	0.074	1.91	1.96	1308.9
41	1309.8	1341.5	31.7	1	0	0	21.9	0	1325.7	0.035	1.8	1340.2	0.07	1.91	1.957	1340
42	1341.5	1374.3	32.8	1	0	0	21.9	0	1357.9	0.048	2.4	1372.8	0.075	1.884	1.96	1342.6
43	1374.3	1407.4	33.1	1	0	0	21.9	0	1390.9	0.036	1.8	1376.5	0.074	1.893	1.963	1406.5
44	1407.4	1439.3	31.9	1	0	0	21.9	0	1423.4	0.044	2.2	1408.8	0.079	1.904	1.956	1408.7
45	1439.3	1472.7	33.4	1	0	0	21.9	0	1456	0.032	1.6	1466.8	0.085	1.882	1.957	1471.7
46	1472.7	1506.2	33.5	1	0	0	21.9	0	1489.5	0.046	2.3	1502.9	0.082	1.88	1.961	1504.2
47	1506.2	1537.5	31.3	1	0	0	21.9	0	1521.9	0.047	2.4	1536.3	0.078	1.872	1.958	1536.6
48	1537.5	1569.5	32	1	0	0	21.9	0	1553.5	0.05	2.5	1567.9	0.075	1.903	1.955	1567.9
49	1569.5	1602	32.5	1	0	0	21.9	0	1585.8	0.038	1.9	1601	0.083	1.906	1.966	1601
50	1602	1634.6	32.6	1	0	0	21.9	0	1618.3	0.037	1.9	1603.1	0.082	1.918	1.962	1604
51	1634.6	1667.3	32.7	1	0	0	21.9	0	1651	0.038	1.9	1665.8	0.082	1.904	1.959	1666.4
52	1667.3	1671.5	4.2	1	0	0	21.9	0	1669.4	0	1.5	21.8	0	1.89	-3.40E+38	1669.2
53	1671.5	1704.2	32.7	1	0	0	21.9	0	1687.9	0.036	1.8	1703.1	0.079	1.901	1.955	1703.3
54	1704.2	1737	32.8	1	0	0	21.9	0	1720.6	0.054	2.7	1735.6	0.079	1.879	1.955	1736
55	1737	1770.4	33.4	1	0	0	21.9	0	1753.7	0.047	2.4	1769	0.085	1.892	1.963	1768.4
56	1770.4	1802	31.6	1	0	0	21.9	0	1786.2	0.033	1.7	1774.6	0.084	1.894	1.961	1800.8
57	1802	1833.5	31.5	1	0	0	21.9	0	1817.8	0.046	2.3	1832.5	0.084	1.899	1.96	1832.6
58	1833.5	1866.8	33.3	1	0	0	21.9	0	1850.2	0.048	2.4	1865.4	0.088	1.888	1.964	1865.7
59	1866.8	1898	31.2	1	0	0	21.9	0	1882.4	0.03	1.5	1896.8	0.097	1.924	1.96	1896.8
60	1898	1932.7	34.7	1	0	0	21.9	0	1915.4	0.045	2.3	1930.2	0.099	1.894	1.969	1930.6
61	1932.7	1964.2	31.5	1	0	0	21.9	0	1948.5	0.041	2.1	1962.7	0.113	1.902	1.971	1963
62	1964.2	1996.8	32.6	1	0	0	21.9	0	1980.5	0.038	1.9	1995.3	0.096	1.904	1.967	1995.6
63	1996.8	2028.3	31.5	1	0	0	21.9	0	2012.6	0.045	2.3	2027.3	0.077	1.913	1.972	2027.2
64	2028.3	2061.9	33.6	1	0	0	21.9	0	2045.1	0.04	2	2059.2	0.078	1.897	1.969	2060.6
65	2061.9	2094.6	32.7	1	0	0	21.9	0	2078.3	0.05	2.5	2068.4	0.088	1.887	1.97	2093.2
66	2094.6	2127.2	32.6	1	0	0	21.9	0	2110.9	0.056	2.8	2123.7	0.078	1.887	1.971	2125.5
67	2127.2	2159.4	32.2	1	0.6	0.001	2128.6	0	2143.3	0.054	2.7	2157.1	0.083	1.895	1.979	2158.1
68	2159.4	2192	32.6	1	0	0	21.9	0	2175.7	0.032	1.6	2189.8	0.092	1.896	1.972	2190.9
69	2192	2223.1	31.1	1	1.6	0.003	2220.5	0	2207.6	0.045	2.3	2220.5	0.085	1.922	1.977	2193
70	2223.1	2257.5	34.4	1	1.7	0.003	2224.2	0	2240.3	0.047	2.4	2254.7	0.085	1.906	1.984	2256.5
71	2257.5	2288.4	30.9	1	3.1	0.006	2286.4	0	2273	0.047	2.4	2287.4	0.088	1.931	1.982	2287.4
72	2288.4	2321.6	33.2	1	3.9	0.008	2304.2	0	2305	0.047	2.3	2318.3	0.102	1.909	1.983	2320.2
73	2321.6	2354.6	33	1	2.5	0.005	2351.5	0	2338.1	0.047	2.4	2352.1	0.091	1.909	1.978	2352.9
74	2354.6	2386.1	31.5	1	0.6	0.001	2355.6	0	2370.4	0.053	2.7	2384.3	0.084	1.914	1.98	2385.2
75	2386.1	2418.5	32.4	1	3.7	0.007	2404.2	0	2402.3	0.035	1.8	2416.9	0.088	1.939	1.991	2417.6
76	2418.5	2452.1	33.6	1	5.7	0.011	2419.6	0.1	2419.6	0.056	2.8	2450.2	0.094	1.91	1.998	2451.2
77	2452.1	2483.4	31.3	1	5.5	0.011	2463	0	2467.8	0.037	1.9	2480.4	0.097	1.91	1.993	2482.1
78	2483.4	2514.9	31.5	1	2.9	0.006	2486.5	0	2499.2	0.036	1.8	2513.3	0.096	1.95	1.987	2513.3
79	2514.9	2547.1	32.2	1	4.5	0.009	2545	0	2531	0.041	2	2543.6	0.093	1.946	1.993	2517.2
80	2547.1	2579.7	32.6	1	8.5	0.017	2548.6	0.5	2548.6	0.036	1.8	2548.4	0.109	1.923	2.004	2548.3
81	2579.7	2613.4	33.7	1	6	0.012	2581.2	0	2596.6	0.066	3.3	2610.9	0.099	1.92	2	2580.8
82	2613.4	2645.9	32.5	1	5.2	0.01	2644.4	0	2629.7	0.047	2.4	2643.4	0.109	1.926	1.994	2644.8
83	2645.9	2677.3	31.4	1	3.8	0.007	2676.4	0	2661.6	0.03	1.5	2676	0.101	1.958	1.992	2676
84	2677.3	2709.8	32.5	1	6.7	0.013	2704	0.2	2678.7	0.044	2.2	2678.5	0.102	1.924	2.001	2678.4
85	2709.8	2714.9	5.1	1	0	0	21.9	0	2712.4	0	1.9	21.8	0	1.921	-3.40E+38	2713.7

86	2714.9	2746	31.1	1	3.9	0.008	2744.9	0	2730.5	0.038	1.9	2716.2	0.103	1.948	1.991	2716.1
87	2746	2778.5	32.5	1	7.9	0.015	2747.8	1	2747.8	0.047	2.4	2776.5	0.106	1.927	2.001	2747.4
88	2778.5	2813.4	34.9	1	3.4	0.007	2795.2	0	2796	0.03	1.5	2780.8	0.09	1.926	1.993	2811.4
89	2813.4	2845	31.6	1	4	0.008	2831.1	0	2829.2	0.035	1.8	2843.5	0.075	1.924	1.996	2843.6
90	2845	2876.6	31.6	1	4.7	0.009	2863.3	0	2860.8	0.029	1.5	2850.6	0.063	1.956	1.994	2872.4
91	2876.6	2909.3	32.7	1	5.7	0.011	2908.3	1	2877.6	0.031	1.5	2908.2	0.078	1.96	2.002	2904.8
92	2909.3	2942.4	33.1	1	5.8	0.011	2916.6	0	2925.9	0.046	2.3	2940.8	0.082	1.93	1.995	2941.1
93	2942.4	2974.9	32.5	1	8.7	0.017	2943.4	0.7	2950.8	0.042	2.1	2943.4	0.079	1.934	2.009	2973.8
94	2974.9	3007.2	32.3	1	5.6	0.011	2976.4	0	2991.1	0.046	2.3	2976.3	0.078	1.941	2	3006.3
95	3007.2	3038.5	31.3	1	7.1	0.014	3008.6	0	3022.9	0.063	3.2	3037.2	0.07	1.936	2.001	3037.3
96	3038.5	3072.2	33.7	1	8.1	0.016	3065.2	1.5	3040.1	0.046	2.3	3040.2	0.081	1.931	2.011	3039.8
97	3072.2	3104.1	31.9	1	6.8	0.013	3076.4	0.5	3079	0.039	2	3090.9	0.081	1.955	2.002	3093.6
98	3104.1	3136.7	32.6	1	7.1	0.014	3120.7	1.5	3105.1	0.046	2.3	3135.5	0.078	1.949	2.004	3135.5
99	3136.7	3170	33.3	1	7.2	0.014	3138.7	2.6	3137.7	0.037	1.9	3167.3	0.087	1.935	2.004	3168.9
100	3170	3202.2	32.2	1	11.8	0.023	3201.2	2.6	3198.8	0.04	2	3171.2	0.079	1.955	2.012	3201.3
101	3202.2	3234.8	32.6	1	8.7	0.017	3223.3	3.4	3233.8	0.029	1.5	3227.8	0.079	1.971	2.008	3233.4
102	3234.8	3266.7	31.9	1	9.1	0.018	3265.3	2.9	3242.3	0.038	1.9	3264.9	0.08	1.967	2.009	3236.2
103	3266.7	3300	33.3	1	10.7	0.021	3267.8	4.6	3267.8	0.039	1.9	3298.7	0.084	1.944	2.02	3299.1
104	3300	3332.5	32.5	1	10.1	0.02	3331.4	3.9	3331.4	0.035	1.8	3331	0.086	1.944	2.012	3331.6
105	3332.5	3364.5	32	1	9.9	0.019	3347.2	3.9	3348.9	0.035	1.7	3334	0.082	1.974	2.012	3334
106	3364.5	3368.7	4.2	1	0	0	21.9	0	3366.6	0	2.3	21.8	0	1.936	3.40E+38	3366
107	3368.7	3401.5	32.8	1	9	0.018	3370.7	4.2	3400.4	0.046	2.3	3370.2	0.075	1.961	2.016	3370.6
108	3401.5	3434.1	32.6	1	9.8	0.019	3402.9	4.4	3433	0.042	2.1	3403.1	0.072	1.953	2.013	3433.2
109	3434.1	3466.4	32.3	1	9.4	0.018	3456.1	3.7	3441.2	0.035	1.8	3464.3	0.073	1.956	2.012	3435.7
110	3466.4	3498.8	32.4	1	9.8	0.019	3497.9	2.6	3469.2	0.035	1.8	3492.8	0.07	1.966	2.009	3468.2
111	3498.8	3529.9	31.1	1	8.3	0.016	3523.6	2.8	3506.1	0.039	2	3517.8	0.063	1.949	2.008	3528.7
112	3529.9	3563.3	33.4	1	10.3	0.02	3552.1	2.2	3531.4	0.051	2.6	3552.1	0.067	1.939	2.008	3530.9
113	3563.3	3595.7	32.4	1	8.8	0.017	3583.2	1.7	3570.7	0.043	2.2	3594.3	0.064	1.949	2.006	3564.8
114	3595.7	3628.4	32.7	1	6.7	0.013	3627.3	0.5	3627.2	0.039	2	3597.6	0.062	1.945	1.997	3597.6
115	3628.4	3660.7	32.3	1	9.8	0.019	3652.9	2.2	3658	0.04	2	3658.9	0.048	1.959	2.01	3631
116	3660.7	3693.6	32.9	1	6.4	0.013	3692.3	1.3	3692.3	0.041	2.1	3662.3	0.052	1.945	2.004	3692.6
117	3693.6	3725.6	32	1	8	0.016	3724.7	2.7	3712.3	0.036	1.8	3695.1	0.061	1.961	2.007	3695
118	3725.6	3758.1	32.5	1	8.4	0.017	3748.2	2.7	3736	0.044	2.2	3756.2	0.057	1.962	2.012	3756.2
119	3758.1	3790.6	32.5	1	8.5	0.017	3789.7	3.3	3774.2	0.038	1.9	3759.8	0.058	1.964	2.009	3759.7
120	3790.6	3823.1	32.5	1	8.2	0.016	3803.8	3.4	3818.8	0.036	1.8	3821.2	0.063	1.973	2.011	3821.2
121	3823.1	3855.6	32.5	1	9.5	0.019	3854.7	3.2	3854.6	0.035	1.8	3824.1	0.063	1.966	2.008	3825
122	3855.6	3888.4	32.8	1	9.3	0.018	3882.1	4.1	3883.4	0.028	1.4	3871.7	0.073	1.953	2.013	3887.5
123	3888.4	3920.6	32.2	1	10.4	0.02	3919	3.3	3917.5	0.037	1.9	3918.8	0.065	1.97	2.01	3918.7
124	3920.6	3953.5	32.9	1	13	0.025	3952.4	5.9	3952.4	0.045	2.3	3951.2	0.066	1.946	2.027	3952.6
125	3953.5	3985.9	32.4	1	15.8	0.031	3984.9	6.3	3984.8	0.044	2.2	3983.9	0.105	1.957	2.031	3985
126	3985.9	4018.4	32.5	1	11.3	0.022	4017.4	3.8	4017.2	0.054	2.7	4017.4	0.076	1.962	2.026	4017.5
127	4018.4	4022.3	3.9	1	0	0	21.9	0	4020.4	0	2.4	21.8	0	1.935	3.40E+38	4020.6
128	4022.3	4054.8	32.5	1	13.1	0.026	4052.7	5.8	4051.7	0.048	2.4	4052.9	0.065	1.972	2.019	4052.9
129	4054.8	4087.3	32.5	1	10.3	0.02	4057.3	4.3	4073.1	0.044	2.2	4085.4	0.055	1.966	2.014	4085.4
130	4087.3	4119.9	32.6	1	12.2	0.024	4119	4.5	4109.6	0.039	2	4118	0.059	1.974	2.014	4118
131	4119.9	4152.4	32.5	1	10.5	0.021	4121.3	5.3	4141.2	0.041	2	4121.5	0.056	1.973	2.021	4121.7
132	4152.4	4184.9	32.5	1	13.6	0.027	4184	6.4	4183.7	0.043	2.2	4154.1	0.113	1.97	2.024	4154.1
133	4184.9	4217.4	32.5	1	13.6	0.027	4186.5	6.4	4190.2	0.039	2	4215.5	0.098	1.981	2.025	4186.6
134	4217.4	4249.9	32.5	1	13.9	0.027	4249	5.8	4231.8	0.041	2.1	4248	0.052	1.975	2.027	4248.1
135	4249.9	4282.3	32.4	1	10.3	0.02	4280.6	3.8	4279.2	0.043	2.2	4251.7	0.044	1.958	2.013	4251.7

136	4282.3	4314.7	32.4	1	11.6	0.023	4296.2	6	4301.5	0.043	2.2	4283.9	0.042	1.964	2.027	4283.9
137	4314.7	4347.3	32.6	1	14.5	0.028	4327.8	6.5	4327.8	0.051	2.6	4329.3	0.04	1.955	2.028	4316.6
138	4347.3	4379.7	32.4	1	11	0.022	4353.7	5.4	4364.1	0.043	2.2	4377.9	0.041	1.961	2.019	4349
139	4379.7	4412.3	32.6	1	10.3	0.02	4411.4	4.6	4400.2	0.045	2.3	4381.6	0.038	1.952	2.015	4381.6
140	4412.3	4444.7	32.4	1	12	0.024	4439.4	6.4	4439.4	0.053	2.7	4442.8	0.036	1.959	2.024	4414.1
141	4444.7	4477.8	33.1	1	13.9	0.027	4476.3	4	4476.3	0.058	2.9	4476.5	0.047	1.934	2.028	4476.5
142	4477.8	4509.5	31.7	1	12.5	0.025	4508.6	4.9	4497.9	0.045	2.3	4478.9	0.046	1.965	2.019	4507.6
143	4509.5	4541.9	32.4	1	12.7	0.025	4541	5.4	4540.9	0.044	2.2	4511.1	0.041	1.953	2.019	4511.3
144	4541.9	4573.2	31.3	1	14.3	0.028	4572.3	5.3	4555.9	0.032	1.6	4571.5	0.044	1.967	2.021	4571.5
145	4573.2	4605.7	32.5	1	14.5	0.028	4604.8	4.8	4574.2	0.044	2.2	4604.7	0.043	1.964	2.026	4603.7
146	4605.7	4638.2	32.5	1	11.1	0.022	4636.4	5.6	4623.4	0.042	2.1	4636.2	0.055	1.978	2.022	4636.2
147	4638.2	4670.7	32.5	1	10.2	0.02	4642.7	5.1	4664.8	0.034	1.7	4668.8	0.082	1.965	2.019	4640.1
148	4670.7	4674.6	3.9	1	0	0	21.9	0	4672.7	0	2.2	21.8	0	1.936	3.40E+38	4673.5
149	4674.6	4707.1	32.5	1	13.6	0.027	4706.2	5.1	4700.4	0.043	2.2	4705.3	0.065	1.964	2.022	4676.5
150	4707.1	4739.6	32.5	1	13.5	0.026	4738.6	6.8	4738.6	0.043	2.2	4738.6	0.057	1.976	2.032	4709
151	4739.6	4772.1	32.5	1	11.2	0.022	4767.4	6.3	4763	0.041	2	4770.3	0.042	1.981	2.023	4741.4
152	4772.1	4804.6	32.5	1	11.1	0.022	4780.5	6	4787.9	0.027	1.3	4777.3	0.062	1.982	2.02	4774
153	4804.6	4837.1	32.5	1	11.2	0.022	4834.7	5.5	4834	0.032	1.6	4806.3	0.04	1.97	2.021	4806.4
154	4837.1	4870.2	33.1	1	12.9	0.025	4868.9	6.2	4868.9	0.044	2.2	4868.9	0.053	1.95	2.031	4869.1
155	4870.2	4902.1	31.9	1	12.5	0.024	4877.3	6.2	4895.2	0.038	1.9	4871.4	0.044	1.969	2.023	4871.5
156	4902.1	4934.7	32.6	1	14.3	0.028	4903.8	7	4931.8	0.042	2.1	4904.1	0.077	1.986	2.03	4904.1
157	4934.7	4967.2	32.5	1	13.3	0.026	4966.3	7.5	4958.5	0.043	2.1	4965.3	0.08	1.984	2.03	4966.1
158	4967.2	4999.1	31.9	1	14.7	0.029	4969.2	6.8	4997.9	0.056	2.8	4969.1	0.056	1.956	2.029	4998.1
159	4999.1	5029.9	30.8	1	13.3	0.026	5000.7	7.1	5023.8	0.051	2.6	5000.5	0.053	1.962	2.026	5000.5
160	5029.9	5061.4	31.5	1	15.8	0.031	5031.5	6.5	5031	0.063	3.2	5031.5	0.056	1.963	2.041	5031.8
161	5061.4	5093.8	32.4	1	13.6	0.027	5092	7.9	5066.2	0.051	2.6	5091.9	0.05	1.973	2.027	5091.9
162	5093.8	5126.3	32.5	1	14.5	0.028	5124.9	7.2	5115.4	0.043	2.2	5124.5	0.068	1.979	2.03	5124.5
163	5126.3	5158.8	32.5	1	12.4	0.024	5157.9	7	5144.6	0.041	2.1	5128.1	0.059	1.969	2.022	5128.1
164	5158.8	5192	33.2	1	18.5	0.036	5190.5	10.7	5190.5	0.048	2.4	5189.7	0.075	1.948	2.048	5190.6
165	5192	5223.7	31.7	1	17.9	0.035	5193.3	8.8	5193.3	0.055	2.8	5193.1	0.078	1.959	2.039	5193.1
166	5223.7	5256.2	32.5	1	15	0.029	5225.4	7.5	5224.7	0.052	2.6	5225.5	0.084	1.977	2.031	5225.5
167	5256.2	5288.7	32.5	1	14.9	0.029	5258.2	7.9	5258.2	0.038	1.9	5257.9	0.092	1.979	2.033	5286.8
168	5288.7	5321.2	32.5	1	13.2	0.026	5304.5	7.9	5289.8	0.043	2.2	5290.6	0.106	1.97	2.031	5290.6
169	5321.2	5325.3	4.1	1	0	0	21.9	0	5323.3	0	2	21.8	0	1.944	3.40E+38	5322.4
170	5325.3	5357.7	32.4	1	16.7	0.033	5356.8	8.1	5356.7	0.039	2	5355.8	0.108	1.974	2.032	5327.1
171	5357.7	5390	32.3	1	16.3	0.032	5359.2	7	5378.9	0.051	2.6	5359.3	0.104	1.97	2.035	5388.2
172	5390	5422.3	32.3	1	13.8	0.027	5391	8.4	5411.5	0.045	2.2	5420.5	0.085	1.971	2.029	5391.9
173	5422.3	5454.7	32.4	1	15.8	0.031	5424.4	6.7	5429.2	0.053	2.7	5452.8	0.08	1.97	2.03	5452.8
174	5454.7	5487.1	32.4	1	17.6	0.034	5486.2	7.6	5480	0.038	1.9	5456.6	0.043	1.975	2.034	5456.5
175	5487.1	5517.2	30.1	1	15.2	0.03	5516.3	8	5514.2	0.042	2.1	5489	0.043	1.971	2.027	5489
176	5517.2	5549.6	32.4	1	12.1	0.024	5547.1	5.8	5528.2	0.033	1.7	5519	0.044	1.974	2.016	5519
177	5549.6	5582	32.4	1	14.2	0.028	5551.1	7.4	5581	0.039	2	5551.1	0.058	1.976	2.028	5551.4
178	5582	5614.4	32.4	1	15.7	0.031	5586	7.6	5603.4	0.043	2.2	5612.5	0.068	1.971	2.027	5612.6
179	5614.4	5646.8	32.4	1	14.7	0.029	5626.6	7.8	5627.4	0.038	1.9	5645	0.083	1.975	2.026	5644.9
180	5646.8	5679.2	32.4	1	16.6	0.032	5666.9	9	5657.3	0.046	2.3	5677.3	0.084	1.974	2.032	5648.7
181	5679.2	5711.6	32.4	1	14.7	0.029	5680.2	8.3	5681.3	0.046	2.3	5681.1	0.089	1.966	2.032	5681.1
182	5711.6	5744	32.4	1	15.9	0.031	5713.2	8.7	5743	0.047	2.4	5713.2	0.083	1.975	2.031	5713.5
183	5744	5776.4	32.4	1	19.8	0.039	5775.5	9.1	5765.3	0.037	1.9	5774.6	0.079	1.982	2.035	5774.6
184	5776.4	5809.4	33	1	8.9	0.017	5801.1	4.5	5801.1	0.044	2.2	5808.4	0.07	1.946	2.012	5808.4

185	5809.4	5842.4	33	1	8.7	0.017	5826.2	0.9	5826.2	0.044	2.2	5831.5	0.065	1.948	2.004	5841.3
186	5842.4	5875.1	32.7	1	9.6	0.019	5857.9	2.9	5849.8	0.05	2.5	5873.9	0.046	1.941	2.014	5873.9
187	5875.1	5907.8	32.7	1	10.3	0.02	5882.4	3.2	5884.7	0.049	2.4	5893.2	0.059	1.955	2.014	5906.7
188	5907.8	5940.7	32.9	1	12	0.024	5939	2.6	5937.5	0.058	2.9	5919.8	0.109	1.938	2.009	5908.8
189	5940.7	5973.8	33.1	1	13.4	0.026	5969.1	6.2	5971.5	0.061	3.1	5941.8	0.128	1.931	2.023	5941.8
190	5973.8	5977.9	4.1	1	0	0	21.9	0	5975.9	0	2.1	21.8	0	1.929	-3.40E+38	5975.2
191	5977.9	6010.8	32.9	1	12.1	0.024	5989.8	3.3	5991	0.042	2.1	5979	0.117	1.958	2.014	6009.8
192	6010.8	6043.6	32.8	1	10.9	0.021	6041.3	4	6012.5	0.049	2.5	6015	0.106	1.948	2.014	6042.6
193	6043.6	6076.6	33	1	11.6	0.023	6051.8	3.7	6047.6	0.052	2.6	6044.6	0.099	1.947	2.016	6075.4
194	6076.6	6109.6	33	1	10.9	0.021	6079.4	3	6078.9	0.038	1.9	6108	0.067	1.944	2.01	6108.5
195	6109.6	6142.5	32.9	1	11.5	0.023	6135.8	3.2	6125.3	0.043	2.1	6118.6	0.046	1.927	2.012	6110.7
196	6142.5	6175.7	33.2	1	10.3	0.02	6169.6	3.7	6166.9	0.055	2.8	6174	0.071	1.929	2.022	6174.4
197	6175.7	6208.4	32.7	1	11	0.021	6202.5	3.8	6200.2	0.047	2.4	6176.8	0.098	1.938	2.012	6176.8
198	6208.4	6241.3	32.9	1	11.8	0.023	6229.5	3.2	6227.9	0.054	2.7	6240.2	0.105	1.949	2.016	6209.7
199	6241.3	6274.2	32.9	1	11.7	0.023	6255.2	1.6	6245.3	0.054	2.7	6255.8	0.1	1.942	2.015	6242.5
200	6274.2	6306.9	32.7	1	14.8	0.029	6282.7	3.2	6280.7	0.058	2.9	6287.6	0.084	1.938	2.025	6275.2
201	6306.9	6339.7	32.8	1	11.4	0.022	6331.6	5.5	6331.6	0.04	2	6315	0.086	1.953	2.021	6338.7
202	6339.7	6372.3	32.6	1	10.6	0.021	6341.4	3.8	6362	0.063	3.2	6340.8	0.068	1.942	2.015	6340.8
203	6372.3	6405	32.7	1	13.7	0.027	6374.7	5.1	6394.1	0.046	2.3	6373.3	0.075	1.96	2.025	6403.9
204	6405	6437.8	32.8	1	11.7	0.023	6432.2	3.8	6432.2	0.05	2.5	6432.4	0.08	1.96	2.02	6436.7
205	6437.8	6470.5	32.7	1	13.5	0.026	6444.3	4.8	6468.4	0.045	2.3	6459.1	0.103	1.958	2.025	6456.5
206	6470.5	6503.2	32.7	1	15.4	0.03	6472.9	3.2	6491.2	0.056	2.8	6496.8	0.114	1.951	2.025	6478.6
207	6503.2	6536.1	32.9	1	12.6	0.025	6529.5	3	6530.6	0.067	3.4	6504.2	0.069	1.941	2.019	6504.3
208	6536.1	6569	32.9	1	12.2	0.024	6565.9	7	6567.2	0.062	3.1	6549.8	0.073	1.936	2.027	6550.1
209	6569	6602	33	1	8.7	0.017	6598.6	1.8	6574.7	0.047	2.4	6593.9	0.096	1.943	2.01	6590.9
210	6602	6635	33	1	11.4	0.022	6618.6	4.1	6620.1	0.044	2.2	6614.2	0.087	1.957	2.023	6603.1
211	6635	6639.3	4.3	1	0	0	21.9	0	6637.2	0	2.9	21.8	0	1.936	-3.40E+38	6638.1
212	6639.3	6672.2	32.9	1	15.8	0.031	6641.2	1.8	6663.8	0.058	2.9	6655.1	0.119	1.935	2.019	6640.3
213	6672.2	6704.8	32.6	1	17.4	0.034	6696.5	7.4	6700.1	0.068	3.4	6703.6	0.079	1.953	2.036	6703.7
214	6704.8	6737.7	32.9	1	19.8	0.039	6735.9	3.9	6735.5	0.085	4.3	6705.8	0.099	1.938	2.032	6705.9
215	6737.7	6770.6	32.9	1	19.8	0.039	6765.3	9.7	6763.1	0.073	3.7	6761.4	0.078	1.943	2.052	6769
216	6770.6	6803.6	33	2	21.4	0.042	6800.8	8.8	6778.8	0.061	3.1	6802.3	0.079	1.96	2.042	6771.7
217	6803.6	6836.6	33	1	15	0.029	6810.3	6.1	6832.2	0.06	3	6835.2	0.091	1.947	2.024	6835.7
218	6836.6	6869.6	33	2	22.7	0.044	6837.6	7.6	6842.2	0.079	4	6837.6	0.12	1.953	2.047	6837.8
219	6869.6	6902.5	32.9	2	24.1	0.047	6896.8	10.2	6898.6	0.071	3.6	6901.5	0.051	1.947	2.051	6901.3
220	6902.5	6935.1	32.6	2	32.7	0.064	6903.6	13.1	6903.5	0.072	3.6	6903.5	0.077	1.977	2.078	6904.3
221	6935.1	6967.8	32.7	2	23.9	0.047	6964.9	13	6947.4	0.074	3.7	6966.6	0.077	1.986	2.073	6936.1
222	6967.8	7000.4	32.6	2	29.6	0.058	6969.4	14.6	6998.2	0.085	4.3	6969.1	0.115	1.982	2.081	6968.8
223	7000.4	7033.2	32.8	2	32.5	0.064	7032.2	14.4	7008	0.094	4.7	7031.6	0.1	1.976	2.081	7031.7
224	7033.2	7065.8	32.6	3	44	0.086	7064.8	14.6	7041.6	0.144	7.2	7064.8	0.084	1.974	2.118	7064.8
225	7065.8	7098.5	32.7	2	31.4	0.062	7066.9	15.2	7068.4	0.072	3.6	7096.8	0.138	1.966	2.077	7097.4
226	7098.5	7131.2	32.7	4	74.4	0.146	7099.6	17.2	7099.6	0.152	7.7	7099.6	0.125	1.97	2.159	7130.1
227	7131.2	7163.8	32.6	2	32.1	0.063	7156	15.8	7142.4	0.101	5.1	7162.8	0.148	1.982	2.094	7162.8
228	7163.8	7196.5	32.7	2	39.7	0.078	7195.4	14	7191.9	0.151	7.6	7195.4	0.084	1.962	2.13	7194.9
229	7196.5	7229	32.5	3	50	0.098	7211	16.8	7199	0.125	6.3	7212.3	0.113	1.968	2.133	7227.8
230	7229	7261.6	32.6	3	43.7	0.086	7250.7	16.1	7247.6	0.12	6	7233.4	0.108	1.969	2.11	7230
231	7261.6	7294.3	32.7	3	50.6	0.099	7284.9	16.7	7280.5	0.128	6.5	7292.9	0.095	1.972	2.112	7292.9
232	7294.3	7298.4	4.1	1	0	0	21.9	0	7296.4	0	3.6	21.8	0	1.928	-3.40E+38	7297.5
233	7298.4	7330.9	32.5	2	22.6	0.044	7304	5.7	7302.4	0.07	3.6	7304	0.121	1.957	2.04	7329.5
234	7330.9	7363.5	32.6	2	22.9	0.045	7354.1	6.7	7340	0.065	3.3	7354.1	0.143	1.956	2.042	7332

235	7363.5	7396.1	32.6	1	18.5	0.036	7384	6.2	7367.1	0.049	2.5	7375.3	0.134	1.97	2.038	7395
236	7396.1	7428.8	32.7	2	24.2	0.047	7427.4	7.1	7423.9	0.087	4.4	7427.5	0.158	1.961	2.057	7427.5
237	7428.8	7461.4	32.6	1	17.1	0.034	7460.4	6.7	7432.6	0.077	3.9	7460.4	0.121	1.952	2.039	7444.7
238	7461.4	7494.1	32.7	1	17	0.033	7469.8	5.9	7472.1	0.066	3.3	7492.6	0.142	1.958	2.028	7492.6
239	7494.1	7526.8	32.7	1	17.9	0.035	7525.7	5.8	7523.2	0.1	5	7525.4	0.111	1.944	2.044	7525.4
240	7526.8	7559.4	32.6	1	14.5	0.028	7532.5	5.6	7556.8	0.072	3.7	7558.1	0.098	1.951	2.031	7548.2
241	7559.4	7592	32.6	2	30.4	0.06	7564.7	6	7582.5	0.164	8.3	7564.8	0.146	1.907	2.071	7564.8
242	7592	7624.7	32.7	1	19	0.037	7623.3	6.7	7617.3	0.094	4.7	7623.3	0.162	1.952	2.049	7623.4
243	7624.7	7657.4	32.7	2	22.1	0.043	7651.7	7.1	7652	0.082	4.1	7651.2	0.176	1.952	2.044	7649.1
244	7657.4	7690	32.6	1	19.9	0.039	7688.6	5.5	7658.9	0.083	4.2	7688.8	0.123	1.943	2.041	7678.1
245	7690	7722.7	32.7	2	21	0.041	7721.1	6.8	7705.3	0.079	4	7721.1	0.168	1.963	2.046	7691
246	7722.7	7755.4	32.7	1	14.7	0.029	7752.3	5.6	7728.7	0.063	3.2	7754.2	0.124	1.96	2.028	7754.3
247	7755.4	7788.1	32.7	2	20.3	0.04	7786.8	7.2	7782.6	0.085	4.3	7786.6	0.175	1.954	2.047	7786.7
248	7788.1	7820.7	32.6	1	18.3	0.036	7819.3	6.2	7793.4	0.081	4.1	7819.2	0.164	1.952	2.04	7819.2
249	7820.7	7853.4	32.7	2	20.5	0.04	7828.1	6.8	7833.6	0.077	3.9	7852.2	0.175	1.957	2.04	7821.8
250	7853.4	7886.1	32.7	1	18.5	0.036	7880.1	6.2	7862.5	0.071	3.6	7884.6	0.168	1.95	2.033	7884.6
251	7886.1	7918.9	32.8	1	18.1	0.036	7908.8	5.8	7895	0.07	3.6	7917.7	0.157	1.958	2.031	7917.8
252	7918.9	7951.6	32.7	1	16.5	0.032	7950.4	4.3	7947.3	0.075	3.8	7950.4	0.106	1.958	2.033	7950.4
253	7951.6	7955.6	4	1	0	0	21.9	0	7953.6	0	4.4	21.8	0	1.927	-3.40E+38	7953.5
254	7955.6	7988.2	32.6	2	22.4	0.044	7986.5	7.2	7969.7	0.088	4.4	7986.7	0.168	1.947	2.044	7986.6
255	7988.2	8020.6	32.4	2	22.4	0.044	8008.9	9	8002.8	0.082	4.1	8008.7	0.18	1.96	2.05	8019.4
256	8020.6	8053.3	32.7	2	21	0.041	8036.5	7.6	8034.1	0.085	4.3	8052.1	0.183	1.947	2.048	8052.1
257	8053.3	8086	32.7	2	21.6	0.042	8057.3	8.5	8068.1	0.07	3.5	8059.7	0.177	1.961	2.046	8054.3
258	8086	8118.6	32.6	2	21.9	0.043	8094	8	8099.9	0.086	4.3	8088.7	0.18	1.951	2.045	8087
259	8118.6	8151.2	32.6	2	24.6	0.048	8123.1	6.6	8125.8	0.078	3.9	8119.9	0.167	1.95	2.051	8119.7
260	8151.2	8183.9	32.7	2	20.6	0.04	8161	6.9	8164	0.065	3.3	8155.3	0.175	1.959	2.041	8182.6
261	8183.9	8216.4	32.5	2	22.9	0.045	8203.7	7.7	8200.1	0.095	4.8	8215	0.171	1.952	2.052	8215.1
262	8216.4	8249	32.6	1	16.8	0.033	8226.1	5.1	8219.7	0.058	2.9	8247.8	0.134	1.958	2.028	8217.5
263	8249	8281.7	32.7	2	23.4	0.046	8280.4	6.8	8263.3	0.092	4.7	8280.6	0.179	1.955	2.051	8250.1
264	8281.7	8314.4	32.7	1	20	0.039	8307.8	5.8	8303.8	0.07	3.5	8313.4	0.138	1.955	2.039	8313.4
265	8314.4	8347	32.6	2	25.8	0.051	8345.4	6.4	8343.8	0.078	3.9	8345.4	0.173	1.958	2.049	8315.6
266	8347	8379.7	32.7	2	20.4	0.04	8351.6	6.7	8349.6	0.068	3.4	8356.9	0.171	1.963	2.043	8378.1
267	8379.7	8412.3	32.6	1	19.8	0.039	8399.2	7.7	8396	0.079	4	8410.8	0.181	1.955	2.036	8410.8
268	8412.3	8445	32.7	2	21.2	0.041	8415.5	8.4	8421.6	0.096	4.8	8443.8	0.182	1.949	2.05	8413.5
269	8445	8477.6	32.6	2	22.2	0.044	8450	6.6	8470.8	0.097	4.9	8450	0.142	1.95	2.047	8450
270	8477.6	8510.4	32.8	1	17.1	0.033	8502.6	5.5	8486.4	0.063	3.2	8483.4	0.141	1.961	2.034	8483.1
271	8510.4	8543	32.6	2	21.7	0.043	8532.2	7.3	8539.6	0.07	3.5	8539.5	0.178	1.966	2.05	8511.4
272	8543	8575.7	32.7	2	20.9	0.041	8558.8	6.1	8559.1	0.073	3.7	8556.9	0.166	1.956	2.038	8549.4
273	8575.7	8608.4	32.7	2	21	0.041	8582.6	7.5	8581.8	0.074	3.7	8580.9	0.188	1.959	2.047	8576.7
274	8608.4	8612.5	4.1	1	0	0	21.9	0	8610.5	0	2.9	21.8	0	1.932	-3.40E+38	8611.4
275	8612.5	8645.2	32.7	1	9.1	0.018	8640.4	0	8628.9	0.057	2.9	8637.6	0.116	1.93	2.002	8615.6
276	8645.2	8678.2	33	2	26.2	0.051	8654.3	5.3	8673	0.067	3.4	8676.3	0.137	1.958	2.047	8677.2
277	8678.2	8710.9	32.7	2	23.9	0.047	8709.7	6.8	8683.4	0.102	5.1	8709.6	0.182	1.944	2.046	8709.6
278	8710.9	8743.6	32.7	1	19.6	0.038	8742.3	4	8730.6	0.092	4.6	8742.1	0.122	1.942	2.037	8742.1
279	8743.6	8776.3	32.7	1	16.1	0.031	8756.5	5.3	8746.4	0.076	3.8	8774.9	0.126	1.958	2.034	8774.9
280	8776.3	8808.8	32.5	1	16.6	0.032	8800.2	6.6	8799.9	0.069	3.5	8777.4	0.152	1.956	2.03	8777.4
281	8808.8	8841.3	32.5	2	23.3	0.046	8828.8	8.4	8836.3	0.075	3.8	8838.9	0.192	1.963	2.053	8809.9
282	8841.3	8874	32.7	2	24.3	0.048	8873	7.2	8867	0.086	4.4	8872.9	0.178	1.961	2.048	8872.9
283	8874	8906.6	32.6	2	21.8	0.043	8890.6	6.4	8888.9	0.08	4	8890.6	0.172	1.957	2.048	8875.1

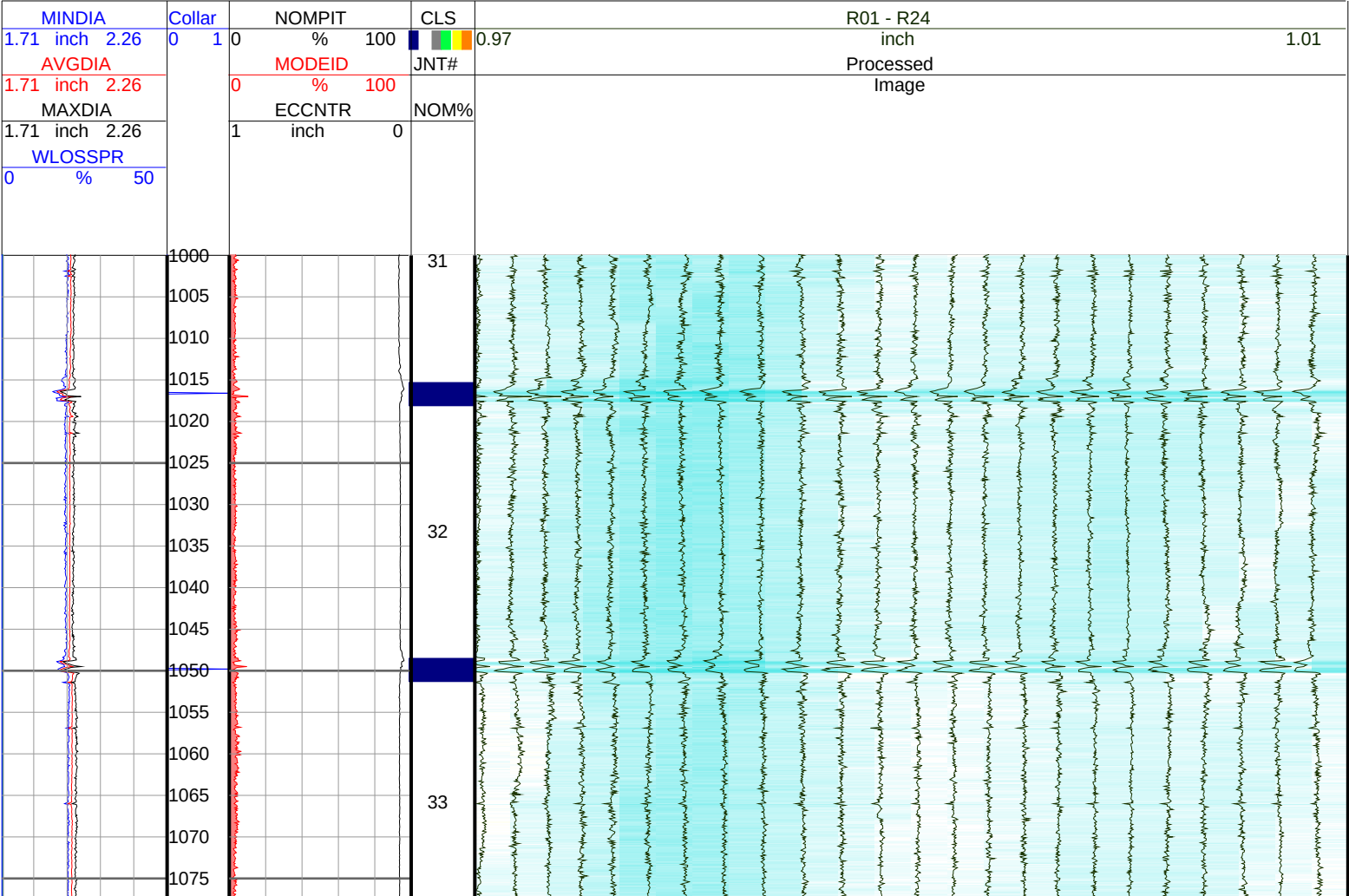
284	8906.6	8939.2	32.6	2	24	0.047	8935	5.4	8935.7	0.076	3.8	8935.1	0.146	1.966	2.044	8935.1
285	8939.2	8971.8	32.6	2	23.9	0.047	8970.6	6.6	8942.6	0.105	5.3	8970.5	0.16	1.952	2.057	8970.4
286	8971.8	9004.3	32.5	2	27.1	0.053	9002.7	8.4	9003.3	0.118	6	9002.7	0.19	1.95	2.068	9002.7
287	9004.3	9036.9	32.6	2	27.7	0.054	9033.3	11.4	9033.2	0.081	4.1	9032.2	0.198	1.969	2.074	9005.6
288	9036.9	9069.6	32.7	2	22.5	0.044	9064.7	6.8	9039.7	0.073	3.7	9041.2	0.16	1.964	2.044	9038
289	9069.6	9102.4	32.8	2	22.5	0.044	9093.4	5.5	9093.9	0.065	3.3	9093.3	0.144	1.968	2.041	9070.6
290	9102.4	9134.9	32.5	2	21.9	0.043	9133.2	7.6	9130.1	0.078	3.9	9117.9	0.191	1.956	2.045	9117.9
291	9134.9	9167.6	32.7	2	23.6	0.046	9166.3	6.7	9150.9	0.086	4.4	9166.3	0.171	1.958	2.047	9166.2
292	9167.6	9200.2	32.6	2	22.5	0.044	9198.8	6.1	9177.5	0.106	5.3	9198.8	0.165	1.94	2.05	9198.9
293	9200.2	9232.7	32.5	2	23.3	0.046	9231.2	7.2	9229.1	0.073	3.7	9231.3	0.153	1.963	2.05	9201.3
294	9232.7	9265.9	33.2	2	20.9	0.041	9258.4	8	9249.2	0.066	3.3	9260.4	0.148	1.946	2.043	9265
295	9265.9	9298.4	32.5	1	19.5	0.038	9278.9	7.1	9297.4	0.077	3.9	9296.7	0.179	1.965	2.042	9296.7
296	9298.4	9302.4	4	1	0	0	21.9	0	9300.4	0	3.6	21.8	0	1.937	-3.40E+38	9301.5
297	9302.4	9335	32.6	2	26.1	0.051	9310.5	6	9317.3	0.07	3.6	9310.5	0.148	1.961	2.05	9333.9
298	9335	9367.7	32.7	1	17.4	0.034	9366.5	6.5	9354.4	0.068	3.4	9366.5	0.119	1.965	2.033	9366.5
299	9367.7	9400.3	32.6	2	21.1	0.041	9397.9	6.8	9389.7	0.081	4.1	9398.8	0.172	1.959	2.043	9398.8
300	9400.3	9433	32.7	1	19.1	0.038	9412.2	5.9	9424.9	0.072	3.6	9406	0.159	1.956	2.044	9401.5
301	9433	9465.7	32.7	2	28.3	0.055	9464.4	7.9	9453.8	0.115	5.8	9464.4	0.174	1.942	2.058	9464.2
302	9465.7	9498.5	32.8	2	21.6	0.042	9495.7	7.4	9471.5	0.08	4	9496.8	0.187	1.957	2.046	9496.9
303	9498.5	9531.5	33	2	22.8	0.045	9524.2	7.2	9510.6	0.095	4.8	9529.7	0.179	1.936	2.045	9530.6
304	9531.5	9564.3	32.8	1	17.7	0.035	9538.2	6.1	9563.1	0.055	2.8	9538.1	0.124	1.96	2.03	9563.3
305	9564.3	9596.4	32.1	2	20.6	0.04	9595	7.2	9570.3	0.087	4.4	9595	0.167	1.955	2.045	9594.9
306	9596.4	9629.1	32.7	2	20.5	0.04	9627.9	6.6	9601.9	0.095	4.8	9627.9	0.167	1.95	2.046	9627.9
307	9629.1	9661.7	32.6	2	33.4	0.065	9630.5	6.5	9631.3	0.1	5	9630.5	0.148	1.956	2.067	9660.6
308	9661.7	9694.3	32.6	2	21.6	0.042	9665.4	6.5	9670	0.079	4	9693	0.17	1.952	2.04	9693
309	9694.3	9726.9	32.6	2	22.6	0.044	9725.6	6.6	9722.2	0.099	5	9725.5	0.162	1.946	2.049	9725.7
310	9726.9	9759.4	32.5	2	27.1	0.053	9737.8	7.4	9733.8	0.079	4	9728	0.179	1.953	2.055	9728
311	9759.4	9792.1	32.7	2	25.6	0.05	9783.9	7.3	9783.9	0.079	4	9790.8	0.171	1.956	2.053	9790.8
312	9792.1	9824.6	32.5	2	21.7	0.042	9821.9	8	9820.1	0.067	3.4	9821.8	0.179	1.966	2.042	9799.4
313	9824.6	9857	32.4	2	26.6	0.052	9854.9	9.9	9854.4	0.089	4.5	9851.7	0.194	1.96	2.061	9851.7
314	9857	9889.4	32.4	2	35.2	0.069	9861.6	15.7	9862.6	0.094	4.7	9860.7	0.211	1.974	2.09	9877.5
315	9889.4	9922.3	32.9	2	28.6	0.056	9908.2	11.5	9917.2	0.08	4	9916.8	0.178	1.955	2.066	9899.9
316	9922.3	9955.1	32.8	2	25.6	0.05	9952	10.7	9951.7	0.079	4	9943.5	0.205	1.972	2.063	9940.9
317	9955.1	9959.3	4.2	1	0	0	21.9	0	9957.2	0	4.7	21.8	0	1.928	-3.40E+38	9958.3
318	9959.3	9992.4	33.1	2	22.3	0.044	9981.7	4	9977.5	0.093	4.7	9990.4	0.134	1.933	2.027	9990.4
319	9992.4	10024.6	32.2	1	19.1	0.037	10004.3	3.6	10011.1	0.079	4	10022.2	0.146	1.94	2.029	10022.3
320	10024.6	10057.2	32.6	2	27.3	0.054	10036.6	2.6	10035.3	0.139	7	10047.9	0.133	1.86	2.018	10046.5
321	10057.2	10089.8	32.6	2	28.6	0.056	10061.9	6.1	10073.4	0.095	4.8	10061.9	0.152	1.953	2.057	10088.5
322	10089.8	10122.5	32.7	2	23.8	0.047	10106.6	6.4	10103.5	0.095	4.8	10121.1	0.175	1.945	2.046	10121.1
323	10122.5	10154.9	32.4	1	17.8	0.035	10153.9	5.9	10143.4	0.075	3.8	10153.6	0.143	1.952	2.033	10153.7
324	10154.9	10187.6	32.7	1	16.4	0.032	10185.6	5	10176	0.067	3.4	10156.2	0.139	1.949	2.034	10156.1
325	10187.6	10220.8	33.2	2	23.2	0.045	10197.8	6.9	10203.7	0.086	4.3	10219	0.179	1.935	2.046	10219.9
326	10220.8	10250.5	29.7	2	21.4	0.042	10226.1	4	10243.5	0.069	3.5	10249.4	0.115	1.95	2.04	10249.2
327	10250.5	10280.9	30.4	1	17.8	0.035	10273.6	6.1	10270.7	0.066	3.3	10273.4	0.142	1.947	2.035	10280
328	10280.9	10313.4	32.5	2	20.4	0.04	10306	7.5	10312.4	0.072	3.6	10304.7	0.174	1.958	2.041	10312
329	10313.4	10345.8	32.4	2	22.3	0.044	10330.4	5	10339	0.081	4.1	10344.8	0.152	1.945	2.04	10344.8
330	10345.8	10378.6	32.8	1	15.4	0.03	10376.3	4.1	10364.8	0.072	3.6	10377.2	0.137	1.948	2.025	10377.3
331	10378.6	10411.2	32.6	1	18.7	0.037	10379.6	7	10381.1	0.071	3.6	10379.6	0.133	1.956	2.037	10410
332	10411.2	10443.9	32.7	1	16.6	0.033	10436.1	6.2	10434.8	0.068	3.4	10426.4	0.16	1.961	2.036	10424.7
333	10443.9	10476.5	32.6	1	16.9	0.033	10471.1	5.6	10468.3	0.063	3.2	10474.9	0.174	1.952	2.034	10474.9

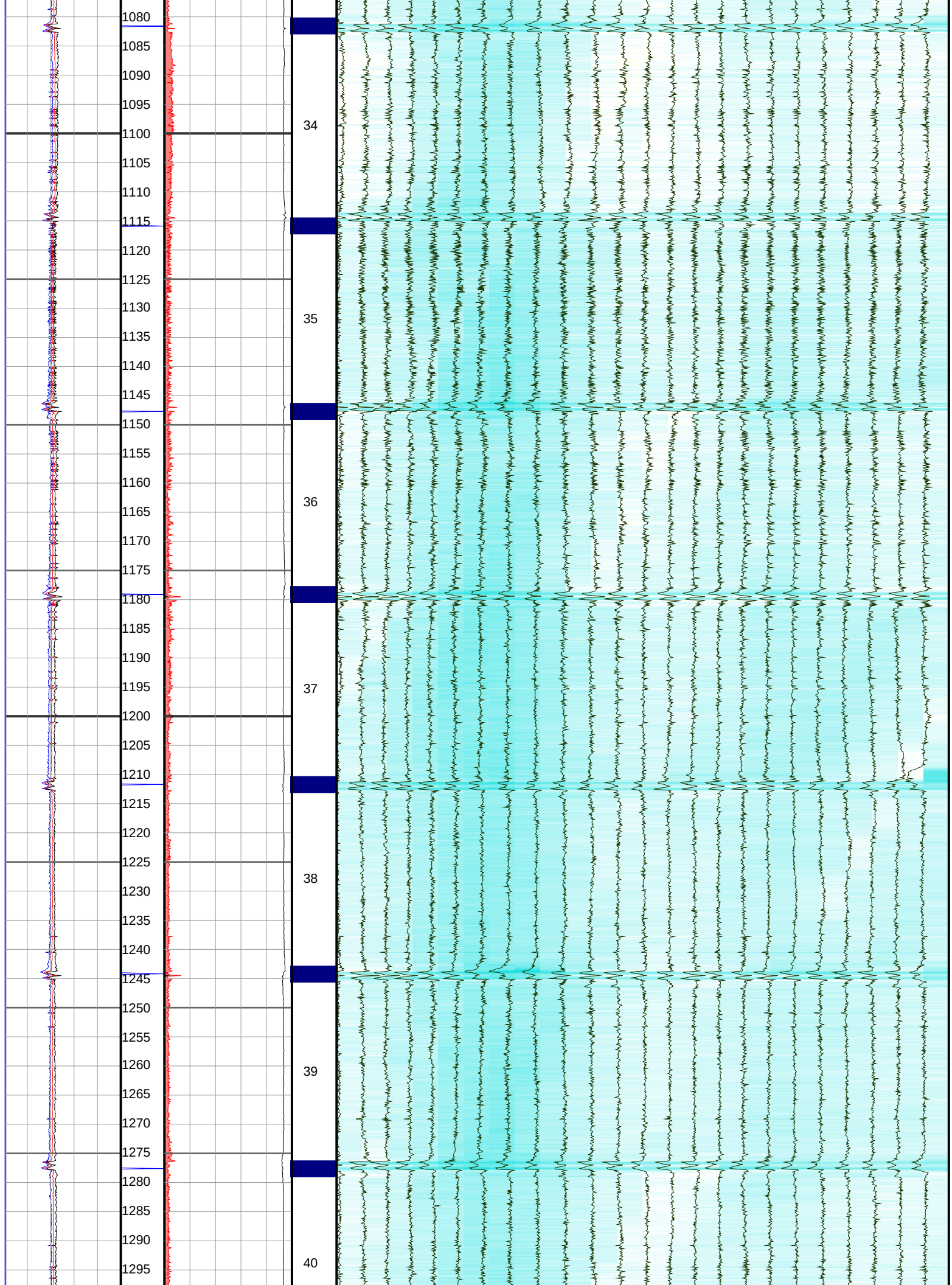
334	10476.5	10509	32.5	2	26	0.051	10504.2	8.1	10488.7	0.102	5.1	10504.2	0.168	1.954	2.055	10504.2
335	10509	10541.6	32.6	2	36.8	0.072	10511.6	5.6	10537.8	0.093	4.7	10540.2	0.183	1.937	2.047	10510.1
336	10541.6	10574.2	32.6	2	26.2	0.051	10569.6	4.9	10565.5	0.136	6.9	10569.6	0.166	1.891	2.046	10571.5
337	10574.2	10607	32.8	1	19.8	0.039	10602.9	5.8	10597.1	0.084	4.2	10602.4	0.153	1.945	2.038	10602.6
338	10607	10611.1	4.1	1	0	0	21.9	0	10609.1	0	2.1	21.8	0	1.934	-3.40E+38	10610.1
339	10611.1	10643.5	32.4	2	25	0.049	10636.2	8.1	10639.2	0.065	3.3	10638.6	0.188	1.96	2.047	10642.4
340	10643.5	10676.1	32.6	2	24.8	0.049	10660.3	6	10654	0.089	4.5	10660.3	0.15	1.957	2.05	10652.5
341	10676.1	10708.8	32.7	1	18	0.035	10690.4	5	10699.7	0.056	2.8	10682.2	0.139	1.963	2.03	10677.1
342	10708.8	10741.5	32.7	1	19.9	0.039	10736.4	6.8	10735	0.067	3.4	10740	0.175	1.955	2.043	10740
343	10741.5	10774	32.5	1	15.8	0.031	10767.2	5.1	10766.9	0.058	2.9	10772.9	0.136	1.956	2.026	10772.7
344	10774	10806.7	32.7	1	16.1	0.032	10803.6	5.6	10795.9	0.07	3.5	10805	0.125	1.956	2.031	10805.1
345	10806.7	10839.2	32.5	1	19.9	0.039	10811.9	5.9	10813.3	0.089	4.5	10838	0.169	1.951	2.039	10838
346	10839.2	10872	32.8	1	17.8	0.035	10867.8	5.5	10860.9	0.072	3.6	10865.8	0.166	1.958	2.034	10865.8
347	10872	10904.6	32.6	1	19.3	0.038	10883.5	7.4	10886.1	0.074	3.7	10876	0.167	1.957	2.042	10873.1
348	10904.6	10937	32.4	2	21.3	0.042	10936.1	6.9	10908.6	0.085	4.3	10935.5	0.18	1.95	2.04	10935.5
349	10937	10969.8	32.8	2	21.4	0.042	10955.5	5.6	10955.5	0.07	3.5	10938	0.174	1.955	2.035	10938
350	10969.8	11001.8	32	1	17.2	0.034	11000.7	4.5	10972.3	0.069	3.5	11000.8	0.167	1.947	2.033	10970.8
351	11001.8	11035.2	33.4	1	18	0.035	11003.1	5.8	11030.6	0.071	3.6	11003.7	0.17	1.951	2.03	11003.6
352	11035.2	11067.9	32.7	1	16	0.031	11052.7	5.3	11043.6	0.055	2.8	11066.3	0.111	1.964	2.027	11036.3
353	11067.9	11100.5	32.6	2	20.4	0.04	11073.4	6	11079	0.073	3.7	11073.3	0.162	1.962	2.047	11099.3
354	11100.5	11133.1	32.6	1	16.1	0.032	11114.3	4.4	11122.1	0.063	3.2	11101.7	0.143	1.957	2.028	11101.6
355	11133.1	11165.9	32.8	2	23.1	0.045	11135.4	7.4	11138.2	0.101	5.1	11163.3	0.167	1.945	2.053	11163.3
356	11165.9	11198.5	32.6	1	14.8	0.029	11171.8	4.6	11170.8	0.058	2.9	11171.8	0.153	1.948	2.031	11167
357	11198.5	11231.5	33	1	19.3	0.038	11229.5	4.3	11230.4	0.087	4.4	11229.5	0.151	1.93	2.033	11230.6
358	11231.5	11263.5	32	1	19.1	0.037	11261.9	4.7	11234.9	0.09	4.5	11262	0.194	1.938	2.033	11262.1
359	11263.5	11267.3	3.8	1	0	0	21.9	0	11265.4	0	3.8	21.8	0	1.912	-3.40E+38	11266.2
360	11267.3	11284.4	17.1	1	13.5	0.026	11271	1.4	11268.3	0.075	3.8	11281.5	0.154	1.873	2.009	11283.4

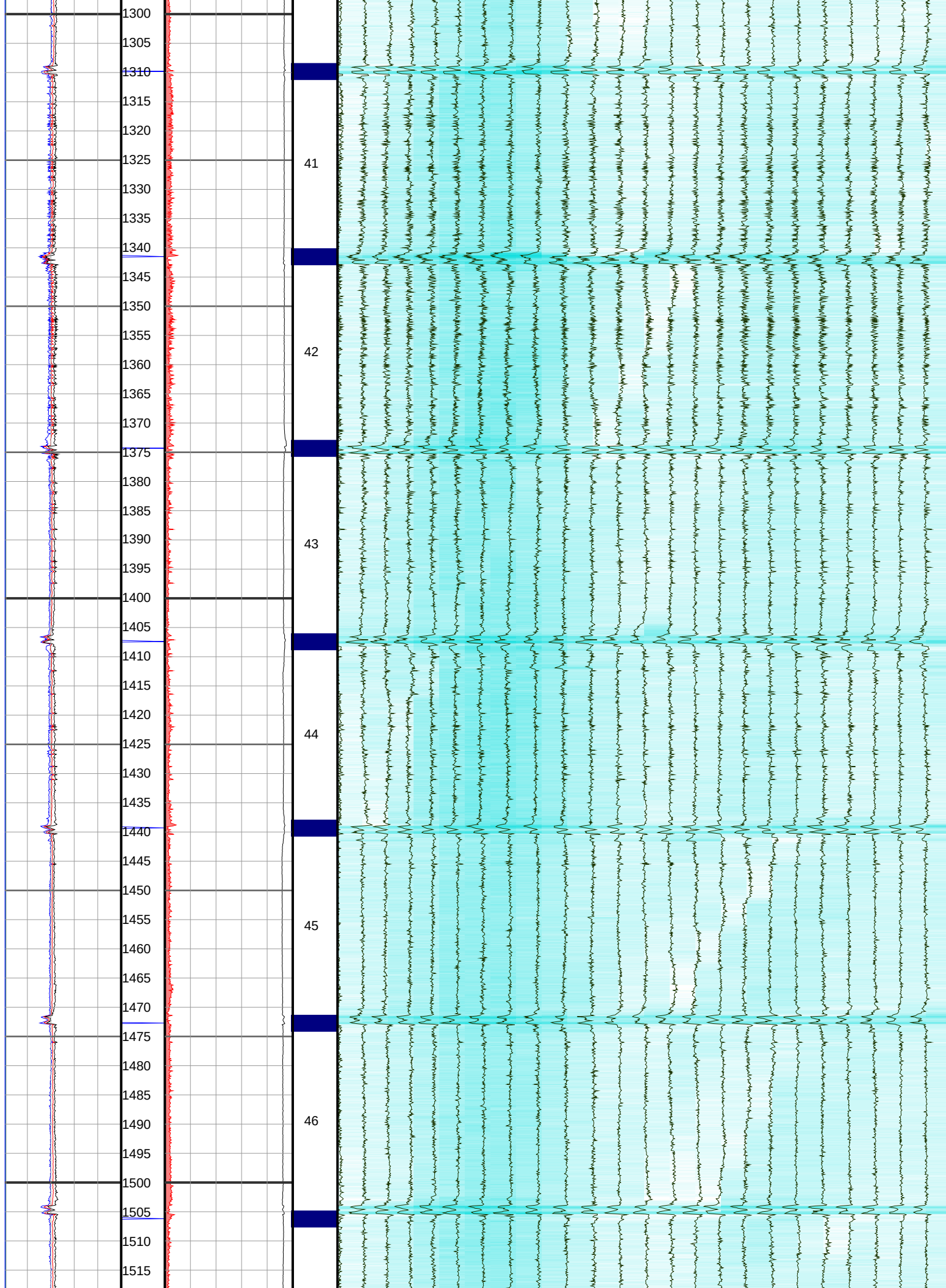
Curve Description

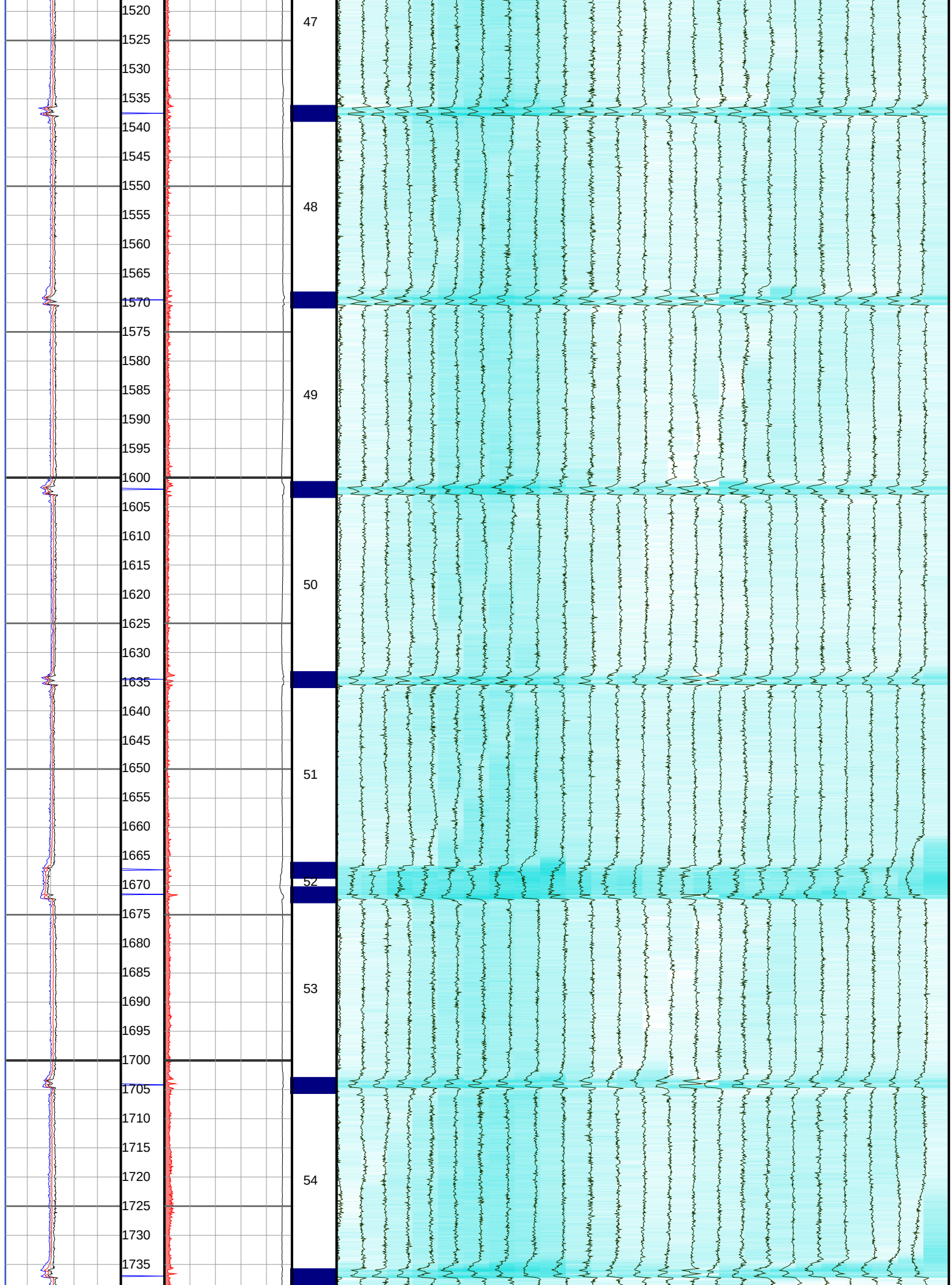
Curve	Discription	Track	Units
WLOSSPR	Wall Loss in prc for current cross section	A	%
MINDIA	Minimum Diameter	A	in
AVGDIA	Average Diameter	A	in
MAXDIA	Maximum Diameter	A	in
Collar	Collar position	B	
NOMPIT	Nominal corrosion pit	C	%
MODEID	ModelD corrosion Pit (according to opt. radius)	C	%
ESSNTR	Essenttricity (Deformation parameter)	C	in
Ovality	Ovalization curve relative ovality	N	%
RAW	Corrosion Class in Color: Gray Green Yellow Brown Red	D	Grade
JNT#	Joint Number in the mid of track	D	#
NOM%	Value of nominal Corrosion against max in Joint	D	%
R01-R60	60 Caliper Curves	E	%
Processed	Corrosion Image (Centralized and Filtered)	E	
LOG	MDT measure spectr Image Map in Logarithmic Scale	H	

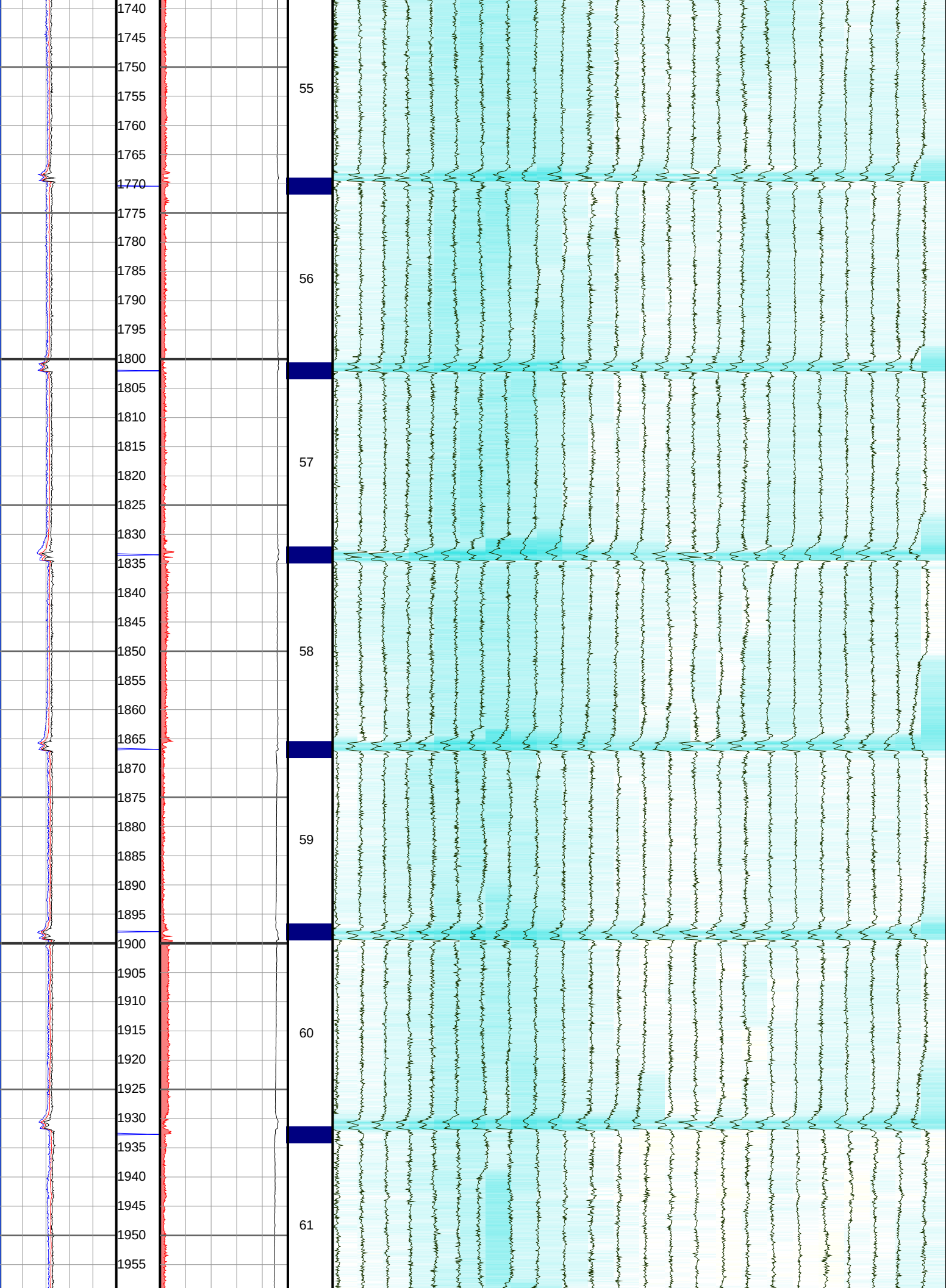
Well Log. Scale 1 : 240

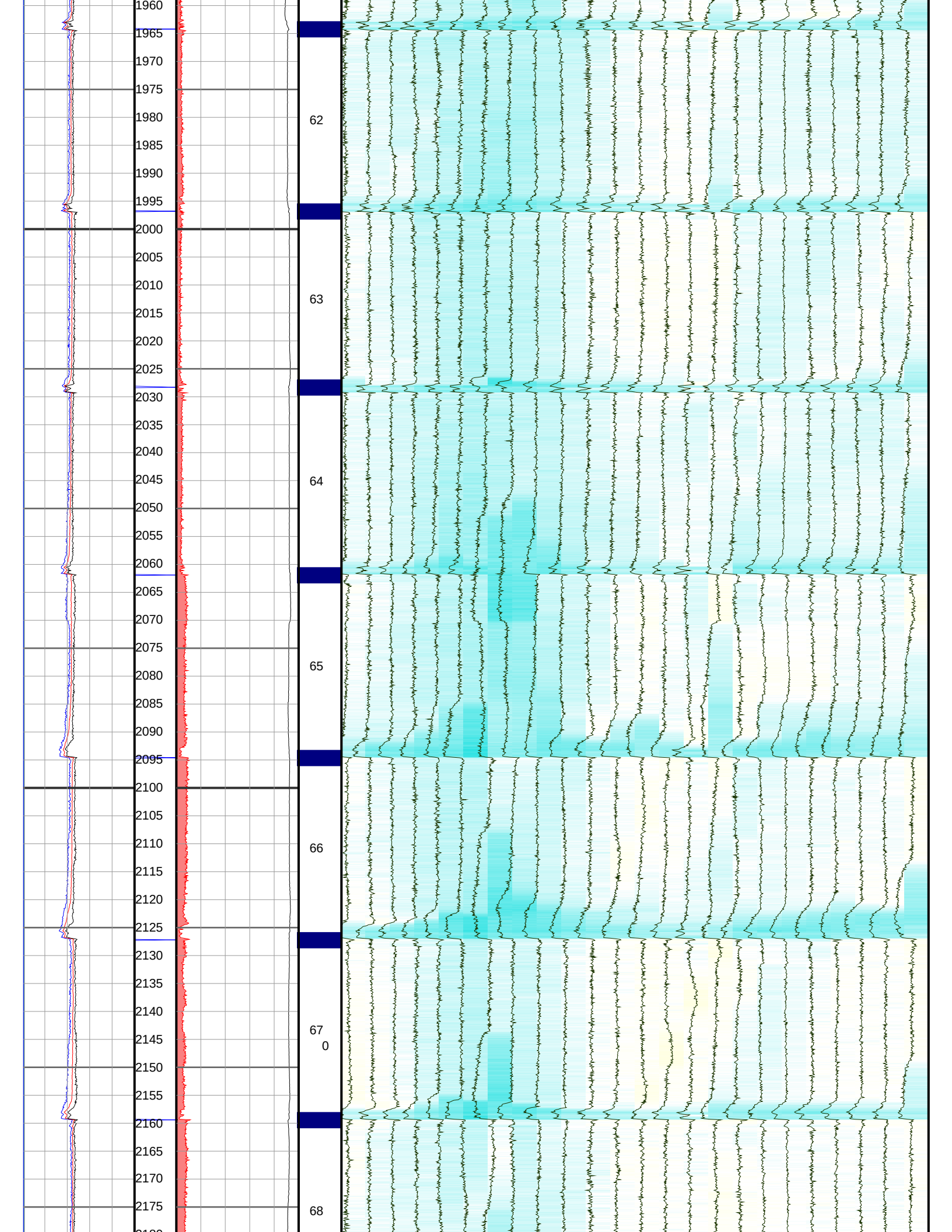


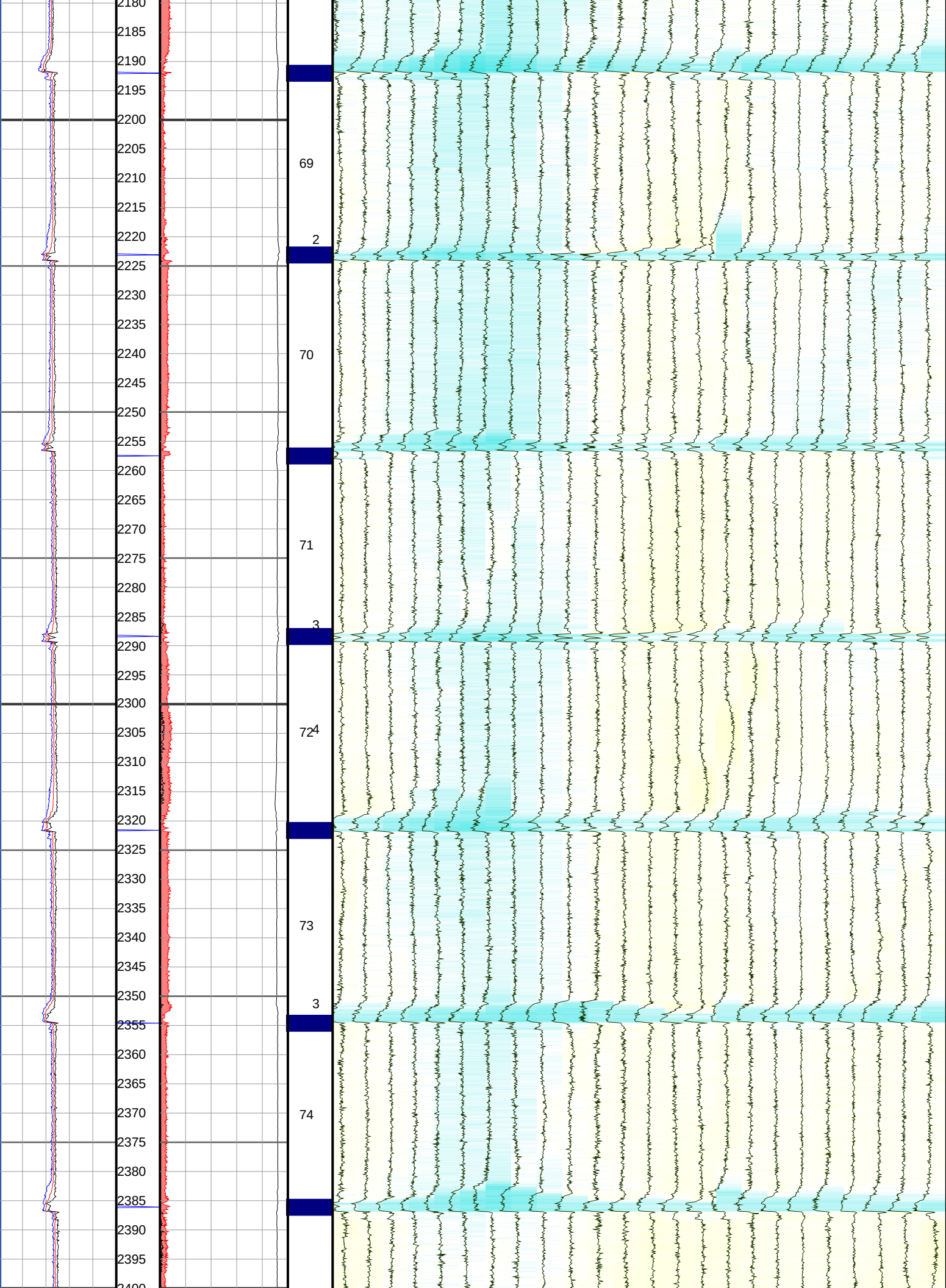


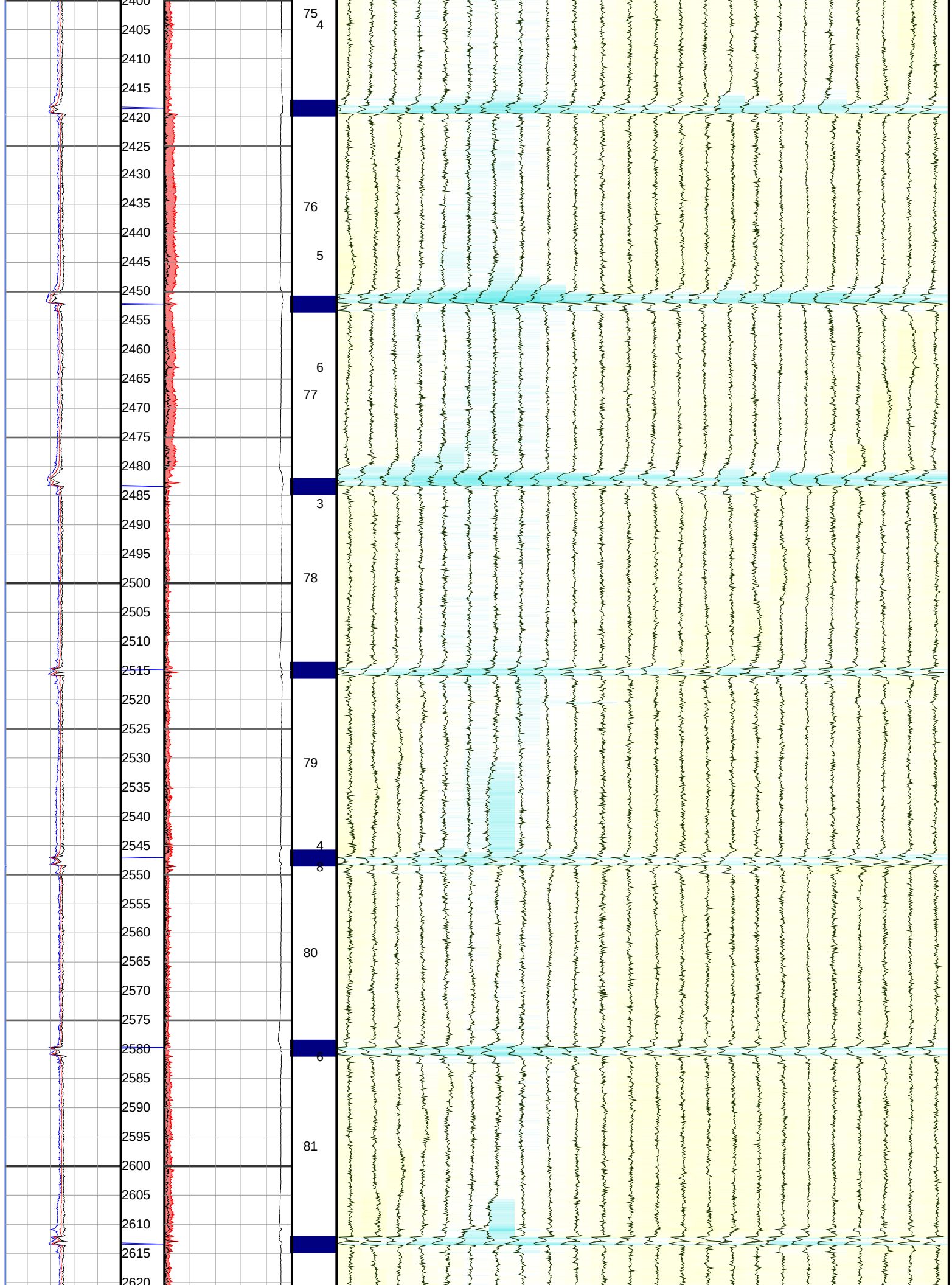


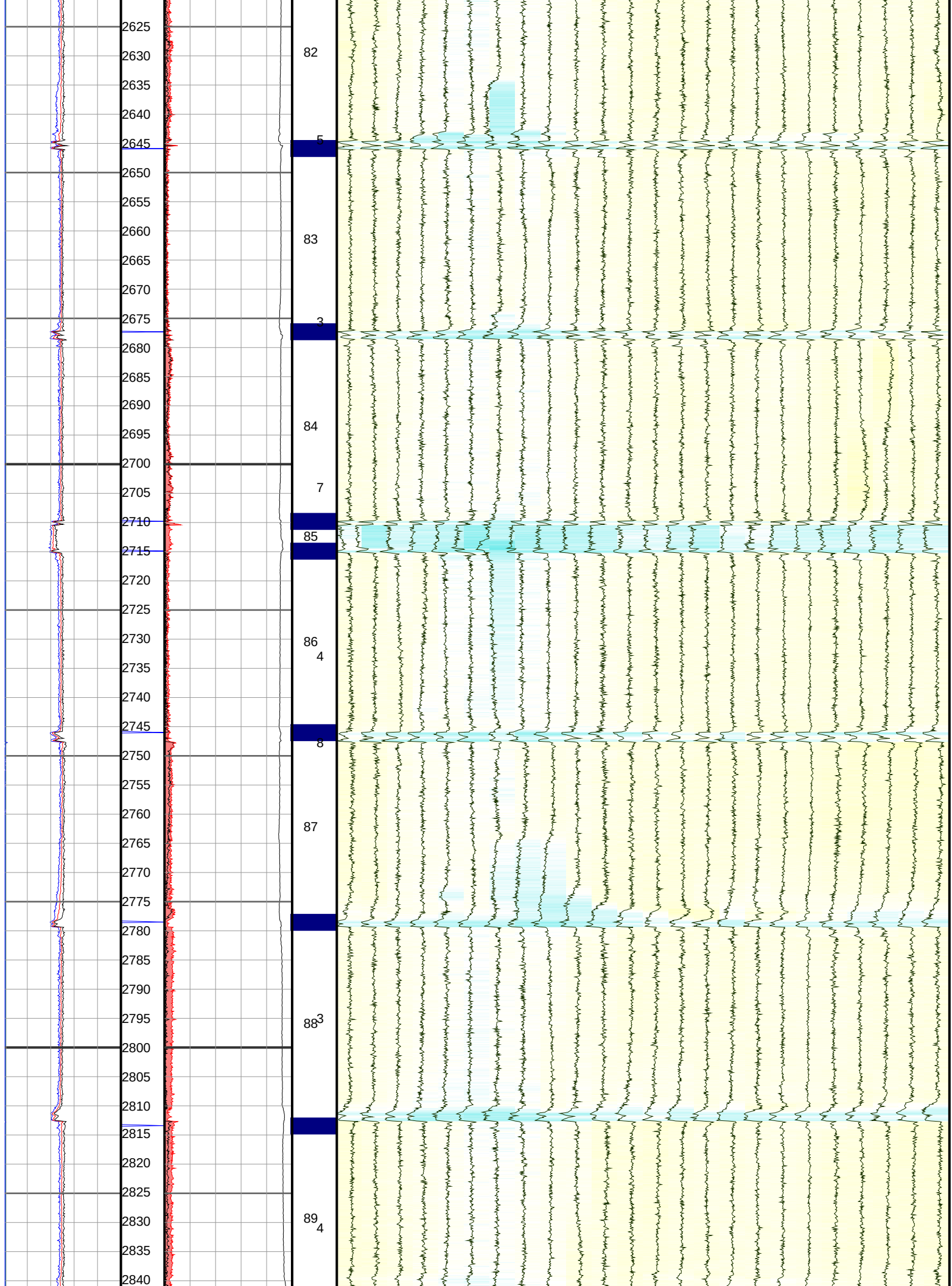


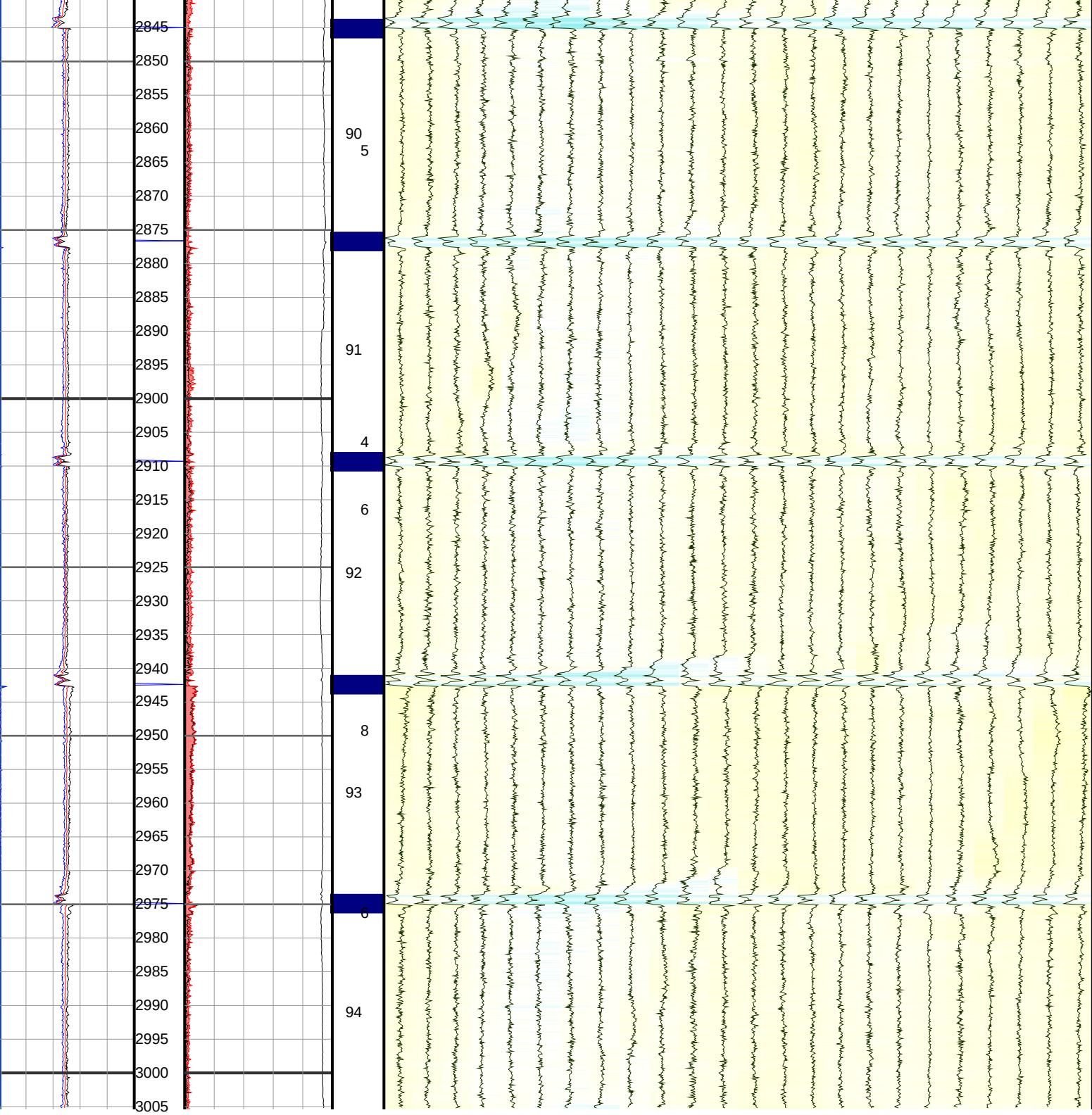




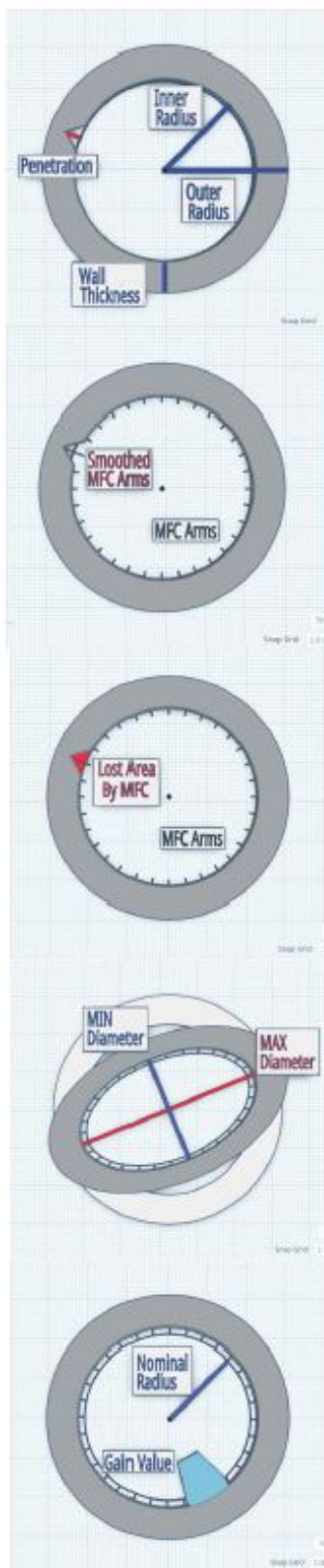








Appendix A - Report Terms



Nominal Penetration (NP)

Penetration (P)

$$NP = \frac{P}{WT} \times 100\%$$

Wall Thickness (WT)

$$(NP = P / WT \times 100\%)$$

ModelD Penetration (MP%)

MFC Arm (MA)

$$MP\% = \frac{MA}{WT} \times 100\%$$

Wall Thickness (WT)

$$(MP\% = MA / WT \times 100\%)$$

Wall Loss % (WL%)

Lost Area (LA)

$$WL\% = \frac{LA}{WTA} \times 100\%$$

Wall Thickness Area (WTA)

$$(WL\% = LA / WTA \times 100\%)$$

Ovality % (O%)

Max Diameter—Min Diameter

$$O\% = \frac{\text{Max Diameter} - \text{Min Diameter}}{\text{Nominal Diameter}} \times 100\%$$

$$O\% = \text{MinD} - \text{MaxD} \times 100\%$$

Projection % (P%)

Gain Value (GV)

$$P\% = \frac{GV}{NRIR} \times 100\%$$

Nominal Radius IR (NRIR)

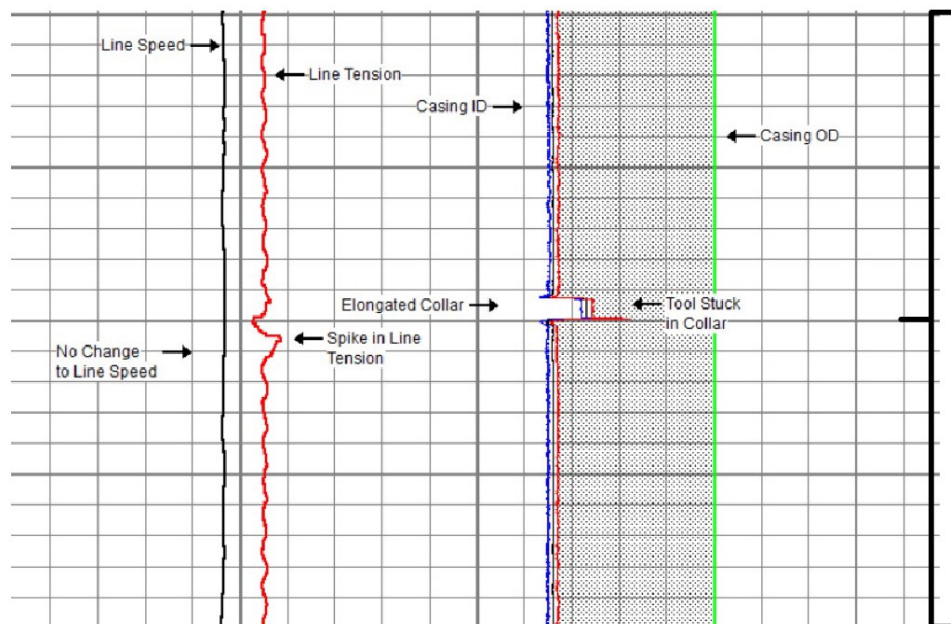
$$(P\% = GV / NRIR \times 100\%)$$

*ModelD Penetration is the most optimistic penetration calculation. It takes into account ovality and pipe tolerance. ModelD Penetration always less than

Wall Thickness Area is between Inner Radius and Outer Radius (OR)

*Gain Value—Min Radius less than Internal Radius (IR)

Appendix B - Elongated Collars



Elongated Collar

An Elongated Collar occurs when logging conditions are just right that the Multi-Finger Caliper Measuring Finger tips “Stick” the tool in the collar. This is explained away by the constant Line Speed and the Spike in Line Tension. To Avoid, The Logging Engineer should adjust logging speed.



JT3 Data Consulting Services, LLC
Houston, TX
(346) 617-0639

All interpretations are opinions based on inferences from electrical measurements or other measurements and JT3 Data Consulting Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and JT3 Data Consulting Services, 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