Permit Application

Environmental Impact Assessment

White Pine North Project

Volume IIH

Appendix C-2 (2 of 4)

White Pine Copper LLC

White Pine, Michigan

September 2026

Project I.D.: 23W200

Solving our clients' toughest science and engineering challenges.

C-2

Deep Bedrock Hydrogeology Report

(2 of 4)

Acoustic and Optical Televiewer Plot

Company:	White Pine	**Total Depth:**	871.00 m	**UTM X (Easting):**	---
Project:	White Pine	**Surveyed Depth:**	868.40 m	**UTM Y (Northing):**	---
Hole ID:	WP587	**Hole Diameter:**	96.00 mm	**UTM Z (Elevation):**	---
Acquisition date(s):	Jun 27, 29, 30; Jul 01; 2024	**Bit Size:**	HQ	**Location:**	White Pine, Michigan
Field Personnel:	Z. Roselle; C. Lee	**Hole Type:**	Diamond		
Data Analysts:	G. Garcia Lamberg	**Casing Depth:**	10.10 m		
Survey Day(s):	4	**Fluid Level:**	---		

Probes:

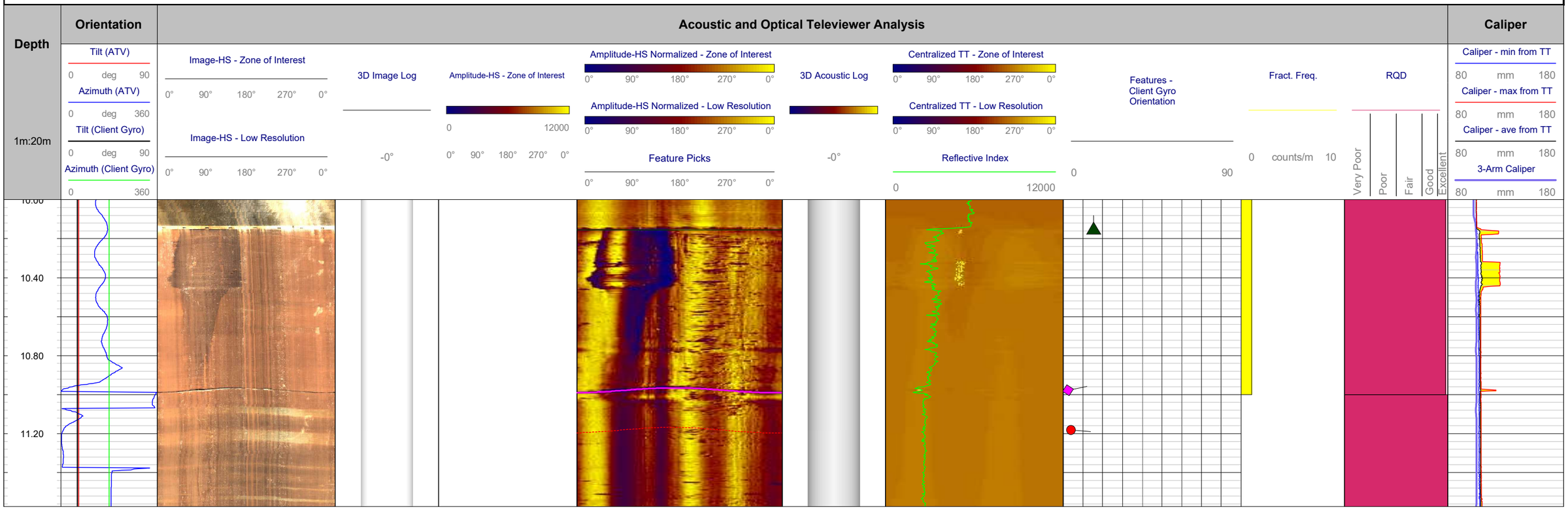
Manufacturer	Model	Serial
ALT	QL40 OBI 2G	212101
M. Sopris	2CAA 3-Arm Caliper	4262
ALT	QL ABI2G Acoustic Televiewer	212010

Notes:

3 arm caliper depth matched to televiewer's synthetic caliper.
Zone of interest (790 m – 868 m) surveyed with a higher resolution.

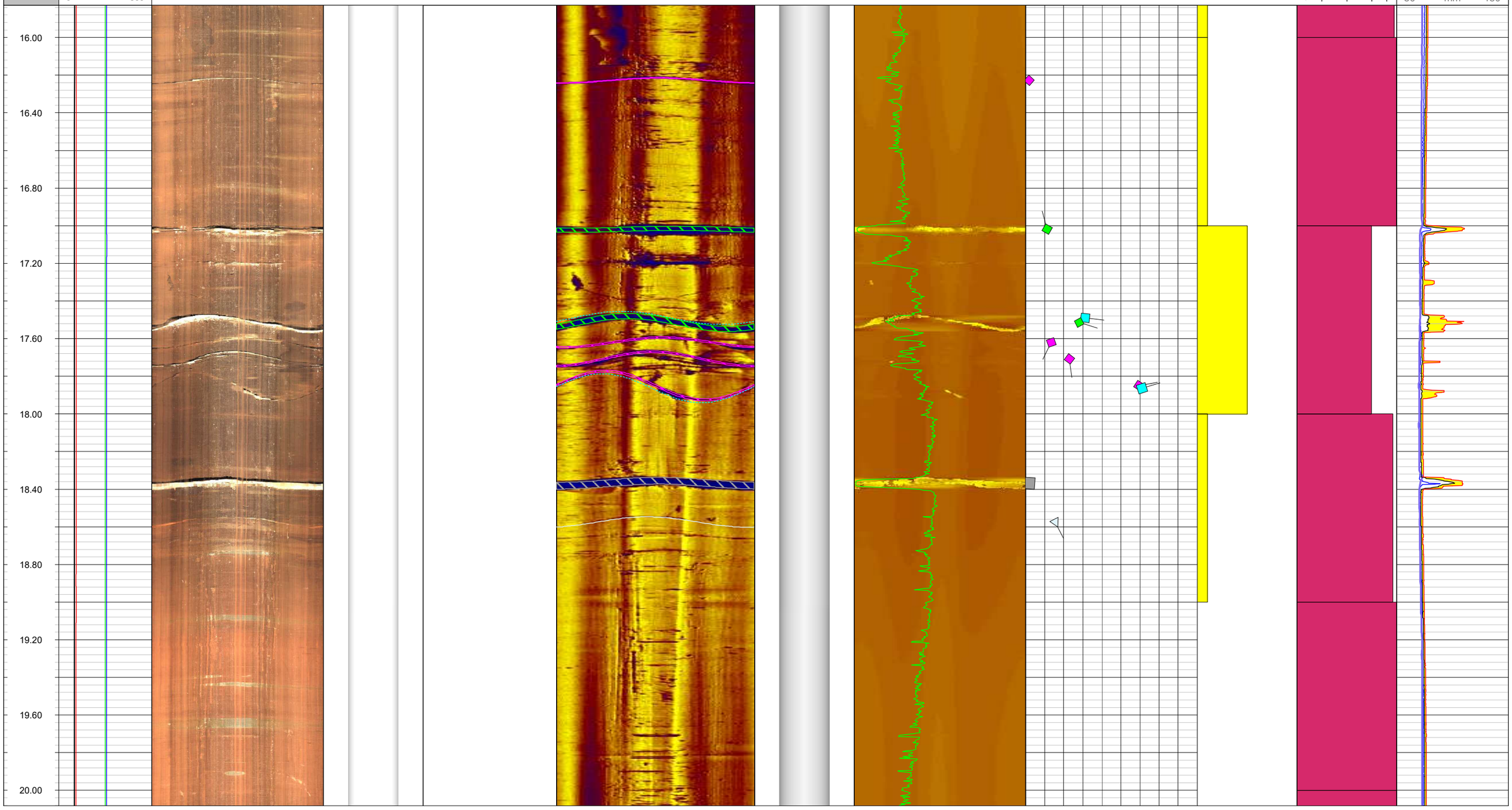
LEGEND - STRUCTURE TYPE

Btm of Casing
Fault Contact - Upper and lower fault planar contacts for larger fault structures or fault zones
Broken Zone/Undifferentiated
Joint/Fracture - Wide Open (30mm+)
Joint/Fracture - Moderately Open (10-30mm)
Joint/Fracture - Open (1-10mm)
Joint/Fracture - Tight (0-1mm)
Bedding/ Banding/ Foliation
Vein
Contact



Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
11.60												
12.00												
12.40												
12.80												
13.20												
13.60												
14.00												
14.40												
14.80												
15.20												
15.60												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



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20.40										
20.80										
21.20										
21.60										
22.00										
22.40										
22.80										
23.20										
23.60										
24.00										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
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24.40 24.80 25.20 25.60 26.00 26.40 26.80 27.20 27.60 28.00 28.40												

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1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
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29.60											
30.00											
30.40											
30.80											
31.20											
31.60											
32.00											
32.40											
32.80											

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
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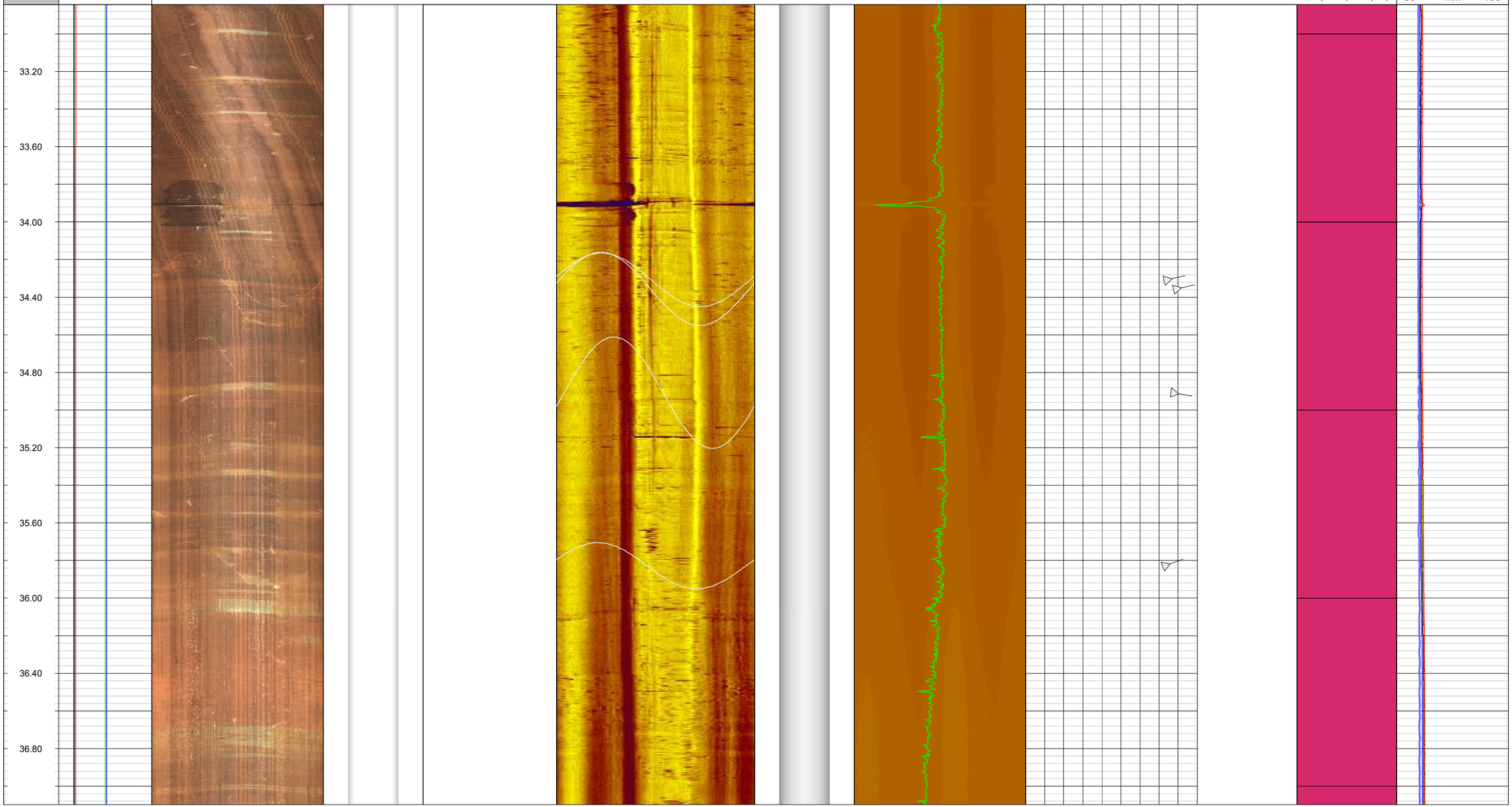

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37.20 37.60 38.00 38.40 38.80 39.20 39.60 40.00 40.40 40.80 41.20												

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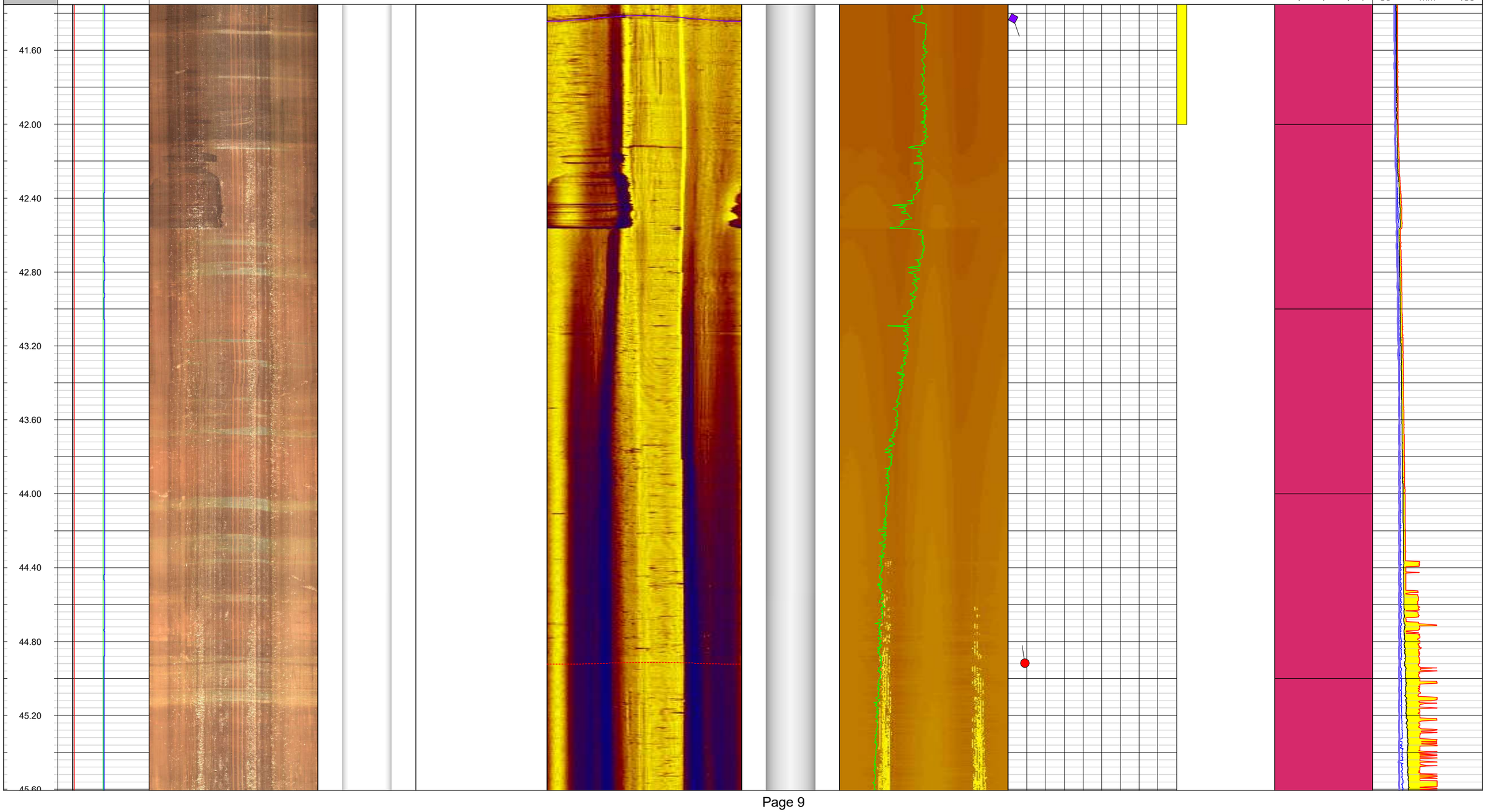

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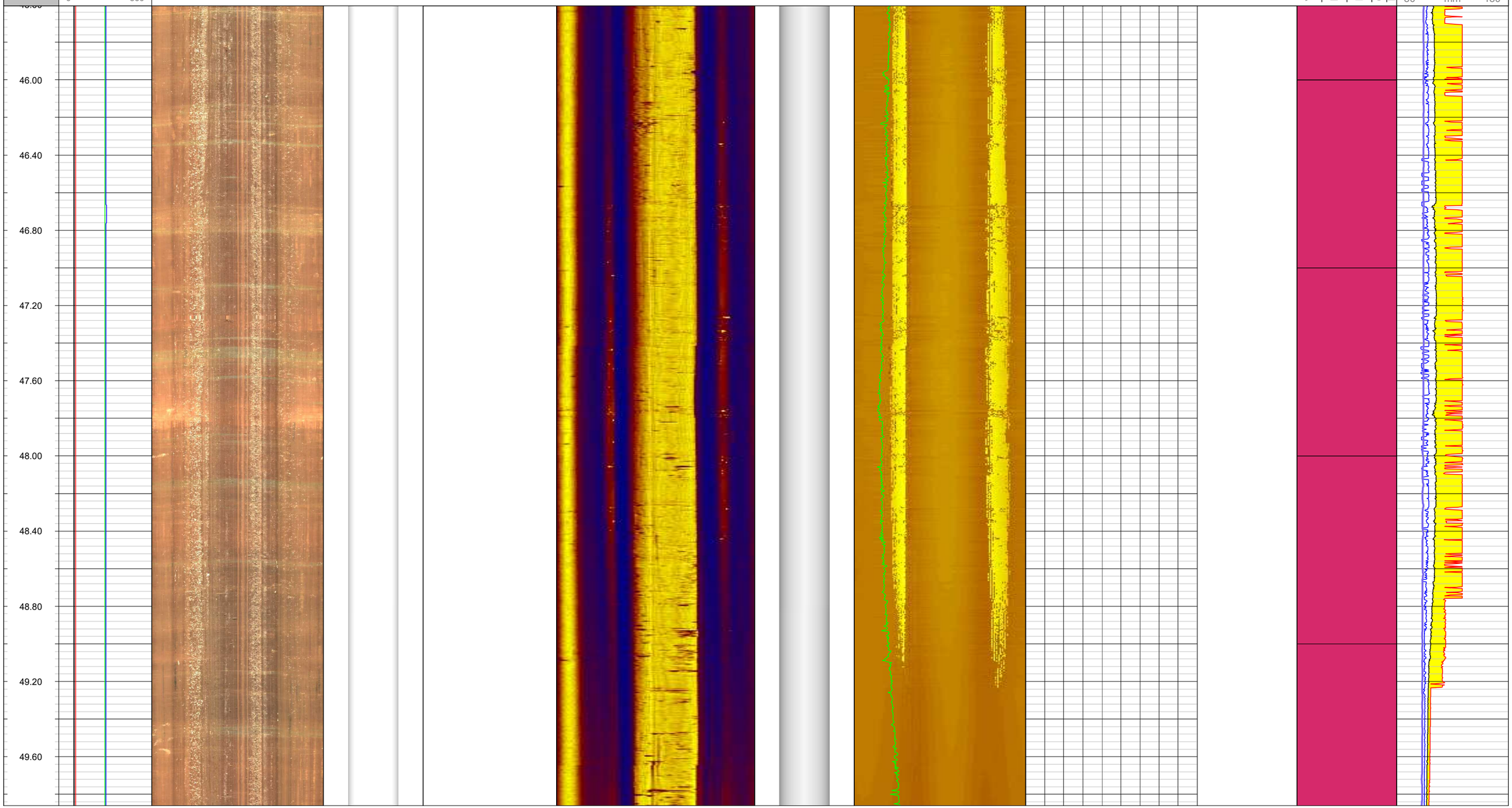

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50.00 50.40 50.80 51.20 51.60 52.00 52.40 52.80 53.20 53.60 54.00											

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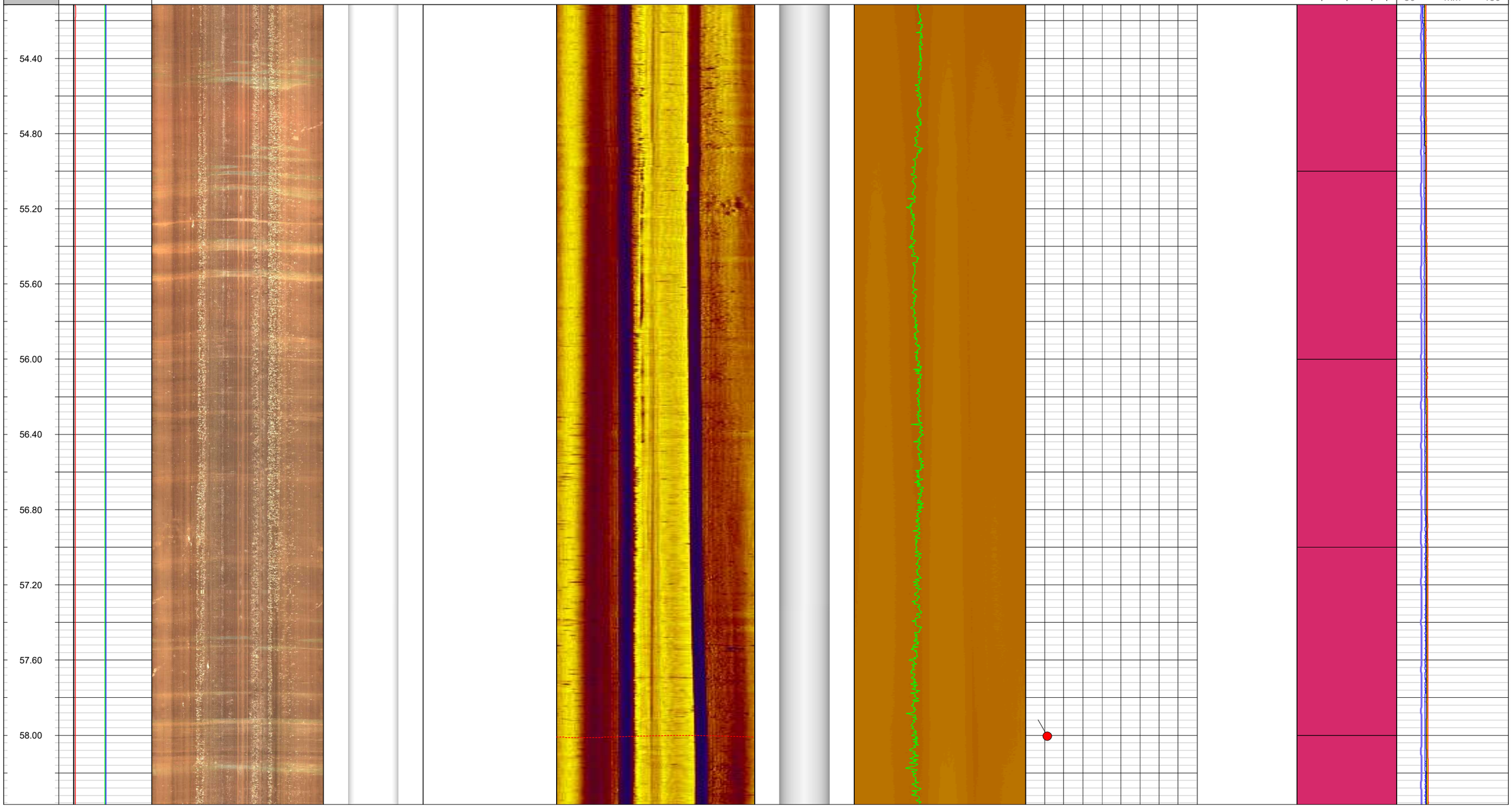

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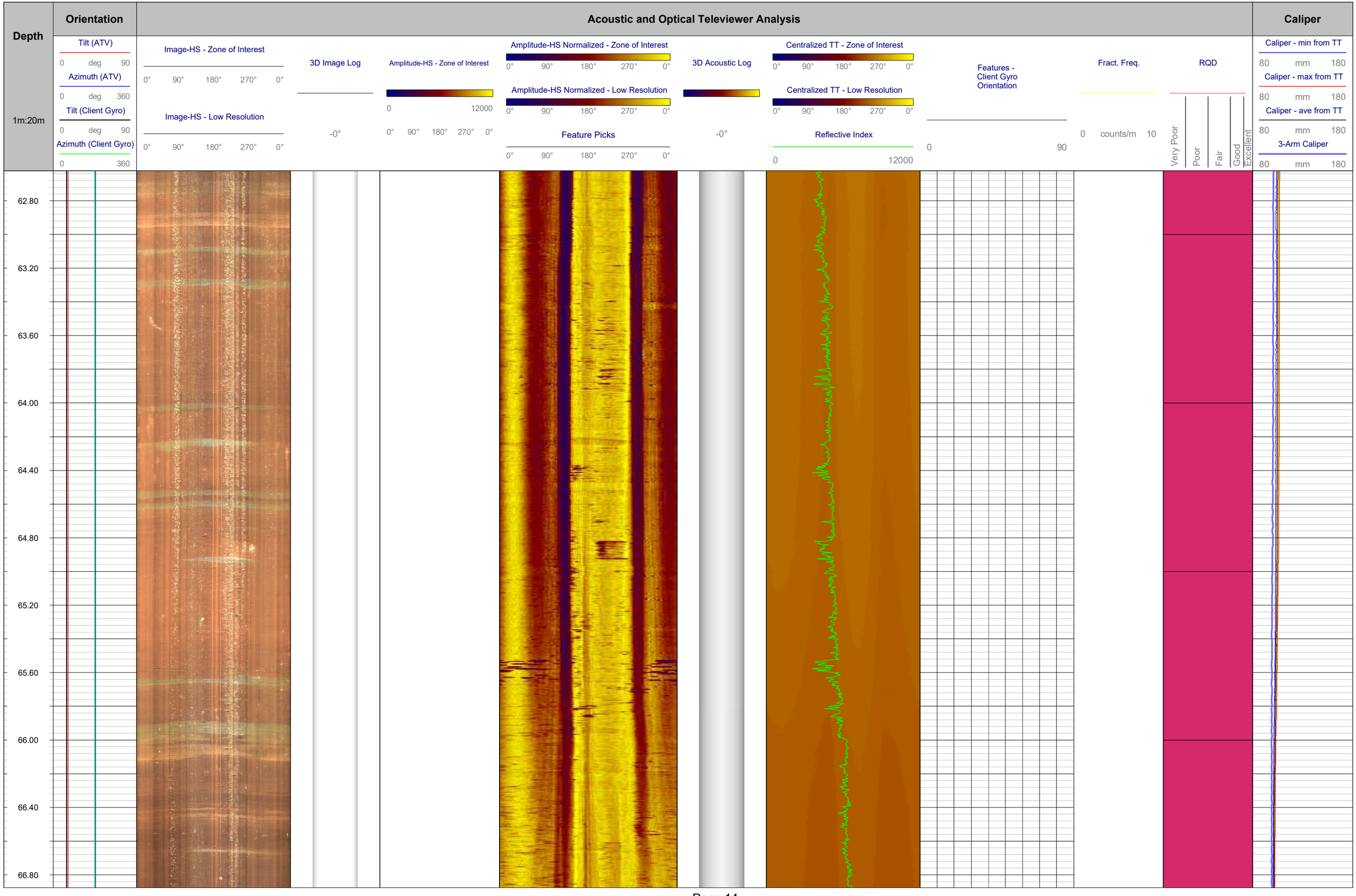
58.40 58.80 59.20 59.60 60.00 60.40 60.80 61.20 61.60 62.00 62.40												


Depth
1m:20m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
62.80
63.20
63.60
64.00
64.40
64.80
65.20
65.60
66.00
66.40
66.80

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67.20											
67.60											
68.00											
68.40											
68.80											
69.20											
69.60											
70.00											
70.40											
70.80											

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71.20												
71.60												
72.00												
72.40												
72.80												
73.20												
73.60												
74.00												
74.40												
74.80												
75.20												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
75.60												
76.00												
76.40												
76.80												
77.20												
77.60												
78.00												
78.40												
78.80												
79.20												
79.60												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
80.00 80.40 80.80 81.20 81.60 82.00 82.40 82.80 83.20 83.60												

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84.00											
84.40											
84.80											
85.20											
85.60											
86.00											
86.40											
86.80											
87.20											
87.60											
88.00											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
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88.40 88.80 89.20 89.60 90.00 90.40 90.80 91.20 91.60 92.00												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

92.40
92.80
93.20
93.60
94.00
94.40
94.80
95.20
95.60
96.00
96.40

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
96.80 97.20 97.60 98.00 98.40 98.80 99.20 99.60 100.00 100.40 100.80										

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
101.20										
101.60										
102.00										
102.40										
102.80										
103.20										
103.60										
104.00										
104.40										
104.80										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
105.20												
105.60												
106.00												
106.40												
106.80												
107.20												
107.60												
108.00												
108.40												
108.80												
109.20												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
109.60												
110.00												
110.40												
110.80												
111.20												
111.60												
112.00												
112.40												
112.80												
113.20												
113.60												

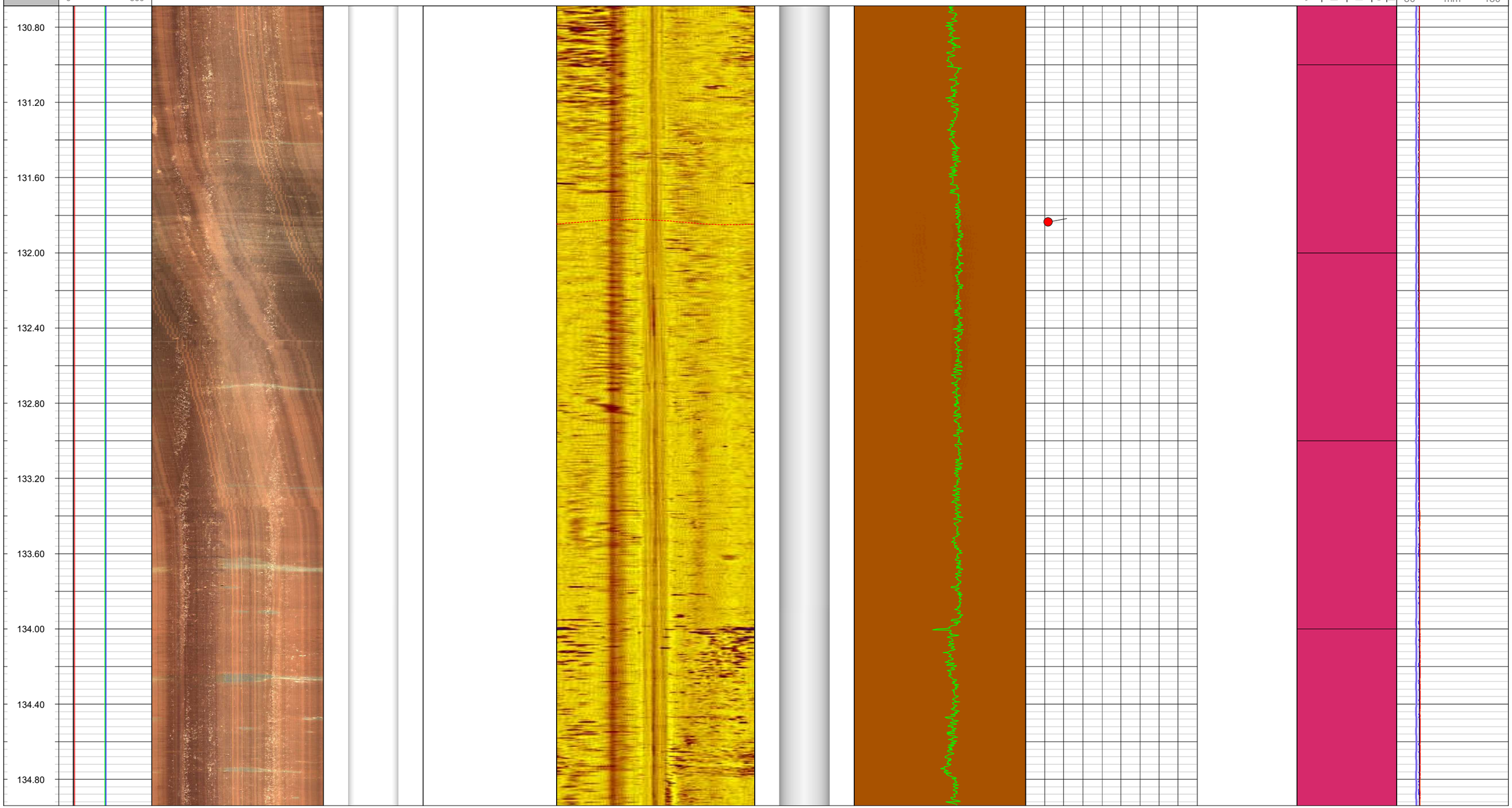
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
114.00 114.40 114.80 115.20 115.60 116.00 116.40 116.80 117.20 117.60												

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
118.00 118.40 118.80 119.20 119.60 120.00 120.40 120.80 121.20 121.60 122.00										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
122.40 122.80 123.20 123.60 124.00 124.40 124.80 125.20 125.60 126.00 126.40												

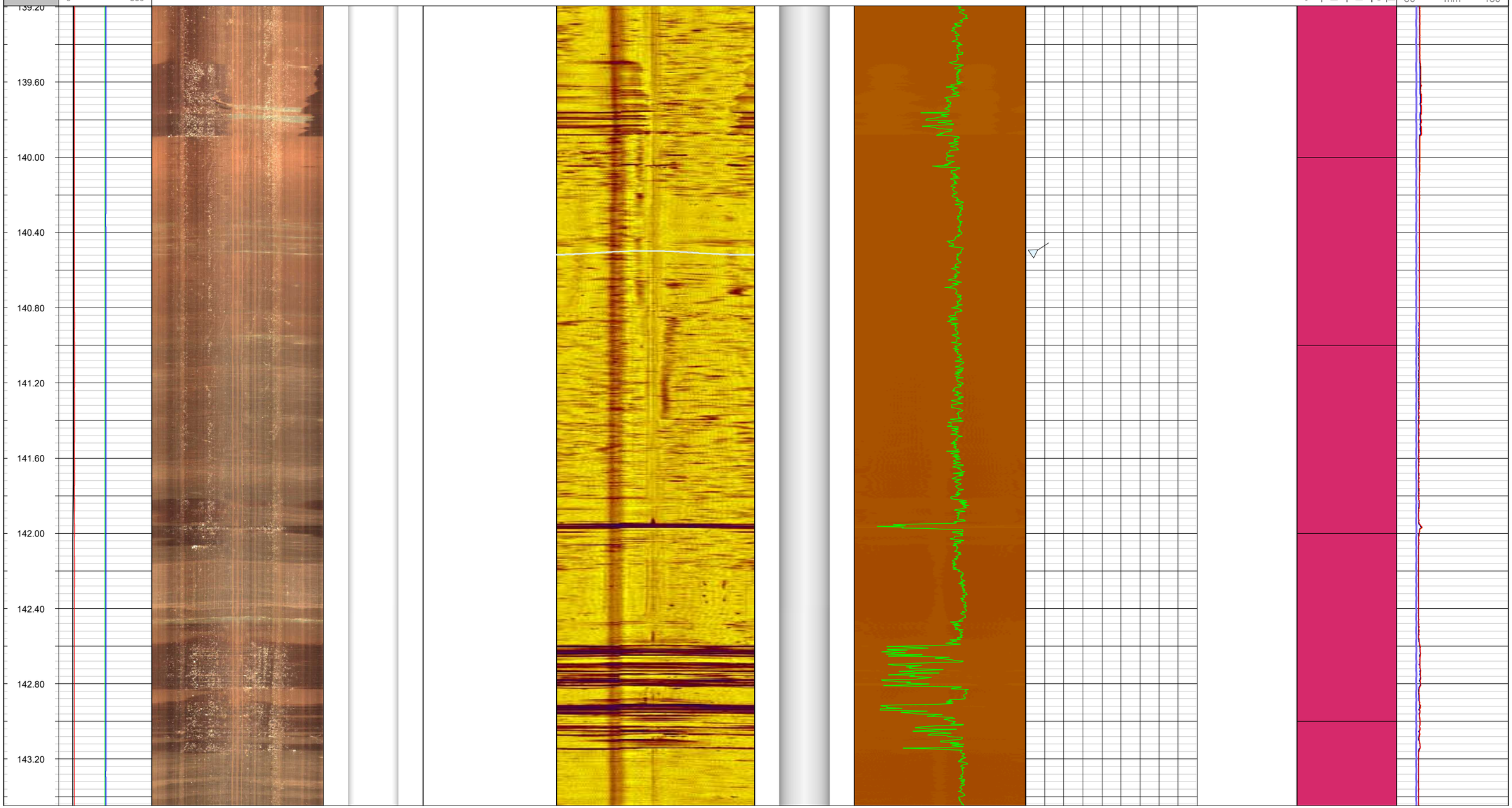
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
126.80											
127.20											
127.60											
128.00											
128.40											
128.80											
129.20											
129.60											
130.00											
130.40											

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

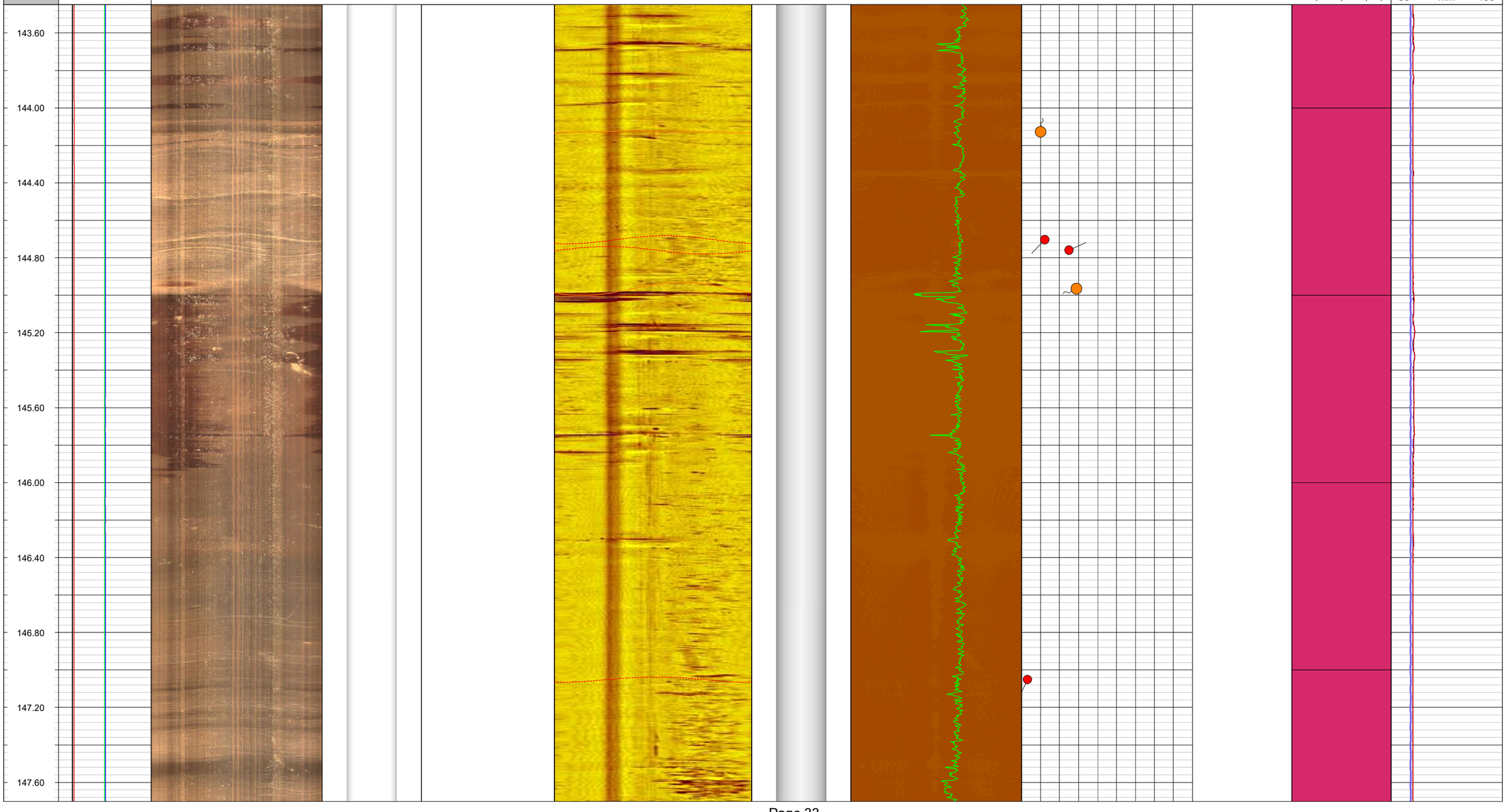


Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
135.20										
135.60										
136.00										
136.40										
136.80										
137.20										
137.60										
138.00										
138.40										
138.80										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



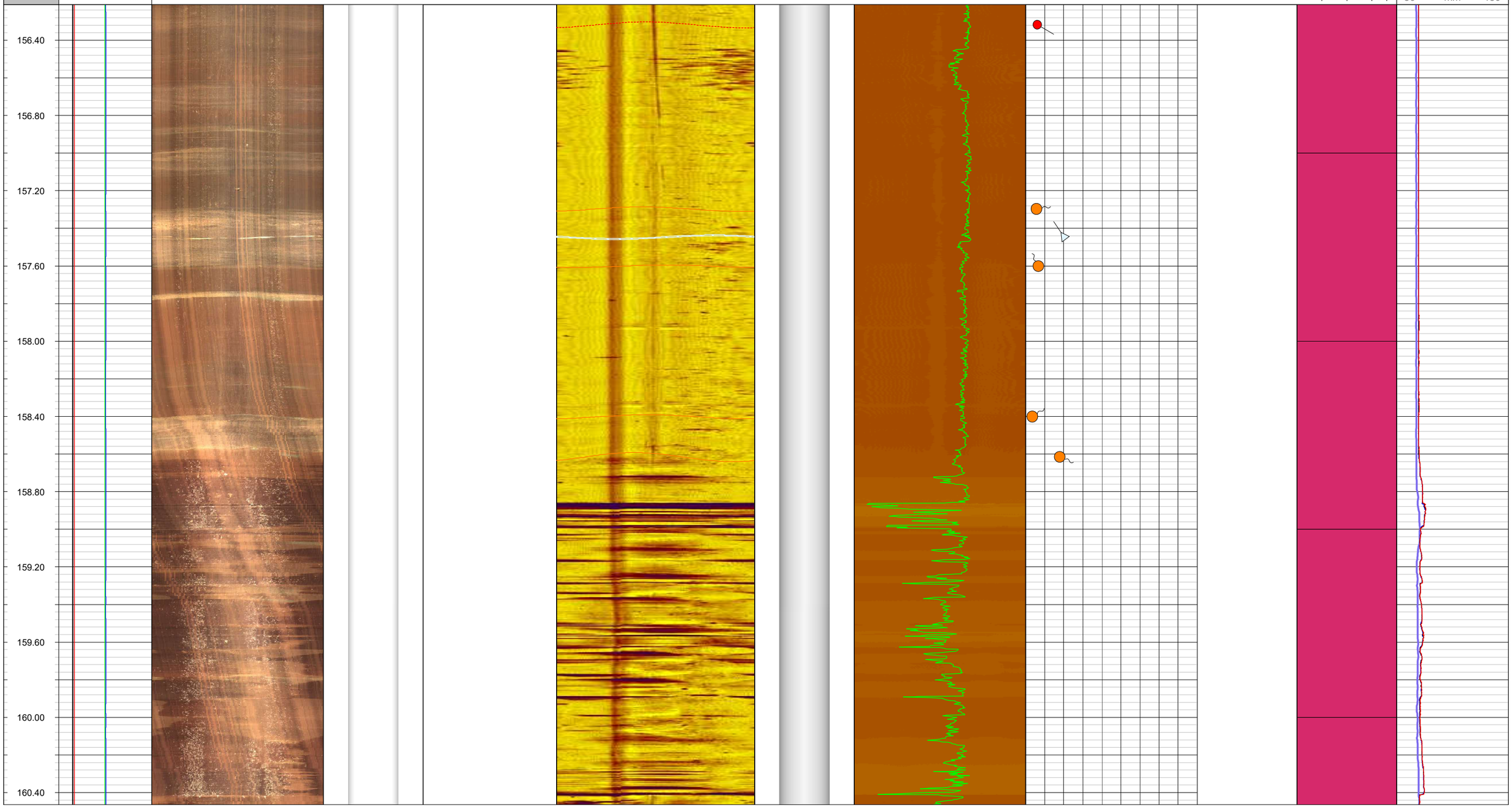
Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
148.00												
148.40												
148.80												
149.20												
149.60												
150.00												
150.40												
150.80												
151.20												
151.60												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
152.00 152.40 152.80 153.20 153.60 154.00 154.40 154.80 155.20 155.60 156.00												

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
160.80												
161.20												
161.60												
162.00												
162.40												
162.80												
163.20												
163.60												
164.00												
164.40												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
164.80												
165.20												
165.60												
166.00												
166.40												
166.80												
167.20												
167.60												
168.00												
168.40												
168.80												

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
169.20											
169.60											
170.00											
170.40											
170.80											
171.20											
171.60											
172.00											
172.40											
172.80											
173.20											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
173.60											
174.00											
174.40											
174.80											
175.20											
175.60											
176.00											
176.40											
176.80											
177.20											

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
177.60											
178.00											
178.40											
178.80											
179.20											
179.60											
180.00											
180.40											
180.80											
181.20											
181.60											

Depth

1m:20m

Orientation

Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360

Acoustic and Optical Televiewer Analysis

Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°

3D Image Log
-0°

Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°

Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°

3D Acoustic Log
-0°

Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000

Features - Client Gyro Orientation
0 90

Fract. Freq.
0 counts/m 10

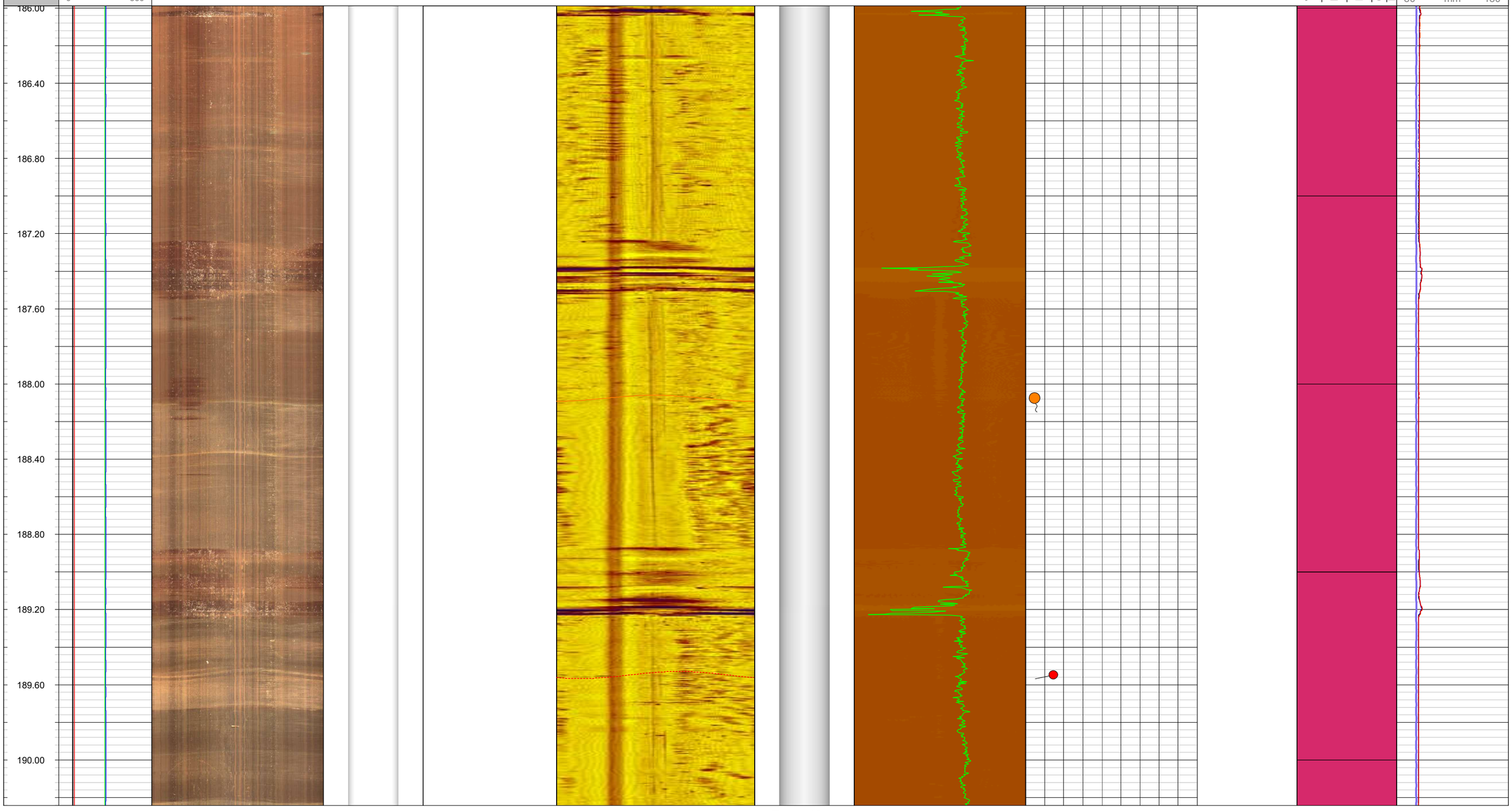
RQD
Very Poor | Poor | Fair | Good | Excellent

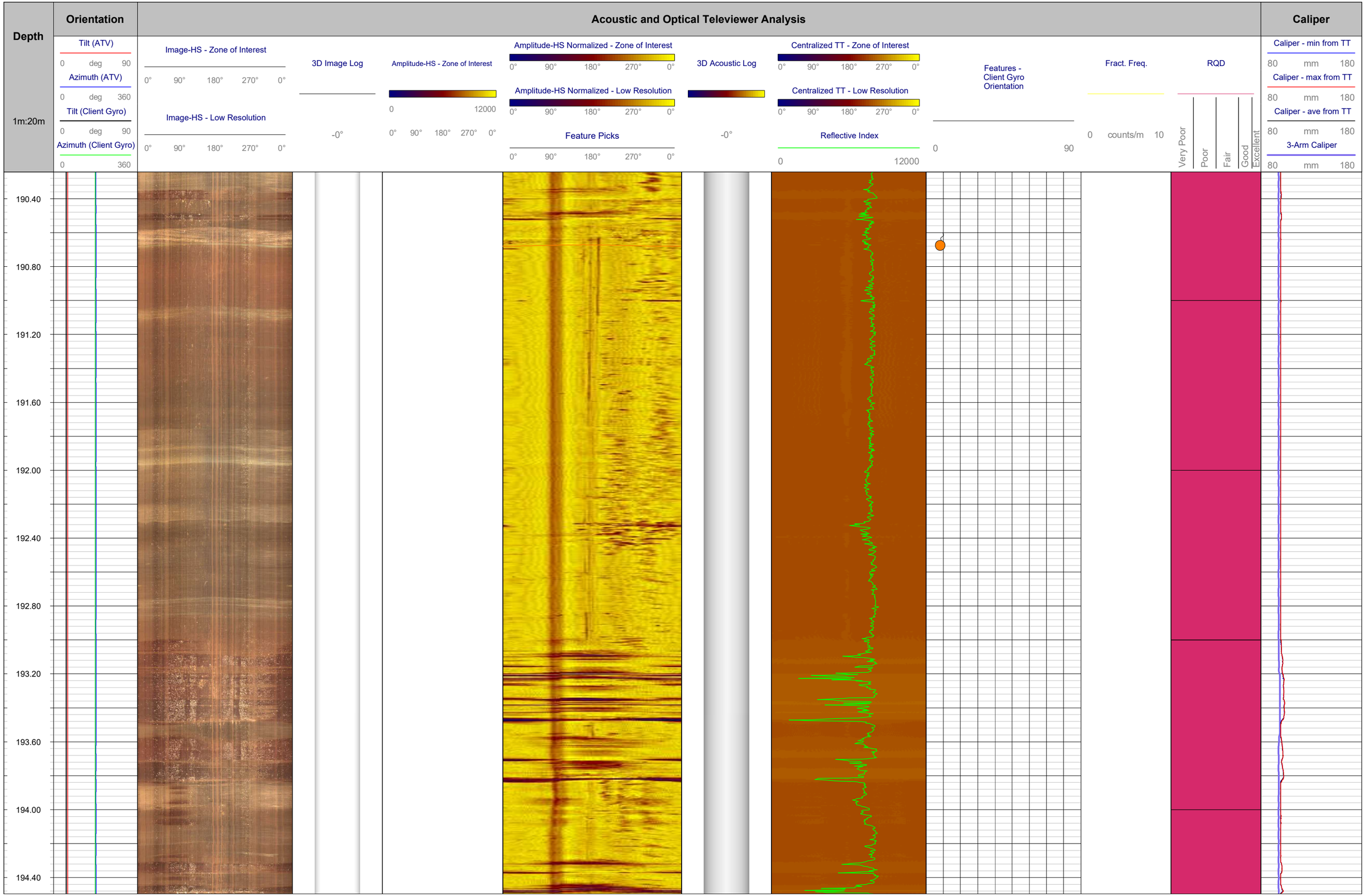
Caliper

Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180

182.00
182.40
182.80
183.20
183.60
184.00
184.40
184.80
185.20
185.60

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



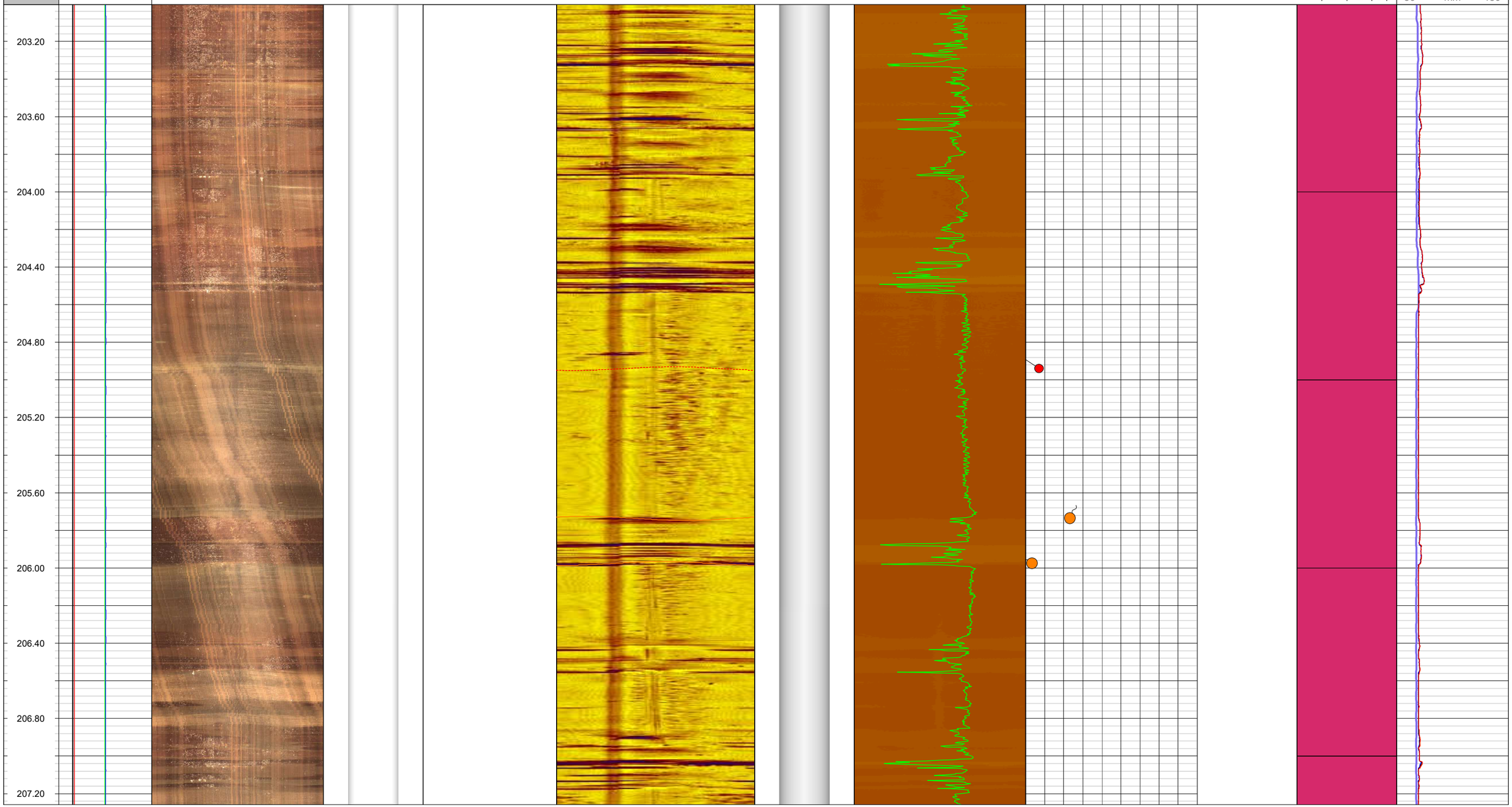

Depth
1m:20m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
190.40
190.80
191.20
191.60
192.00
192.40
192.80
193.20
193.60
194.00
194.40

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

194.80
195.20
195.60
196.00
196.40
196.80
197.20
197.60
198.00
198.40

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
198.80 199.20 199.60 200.00 200.40 200.80 201.20 201.60 202.00 202.40 202.80										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

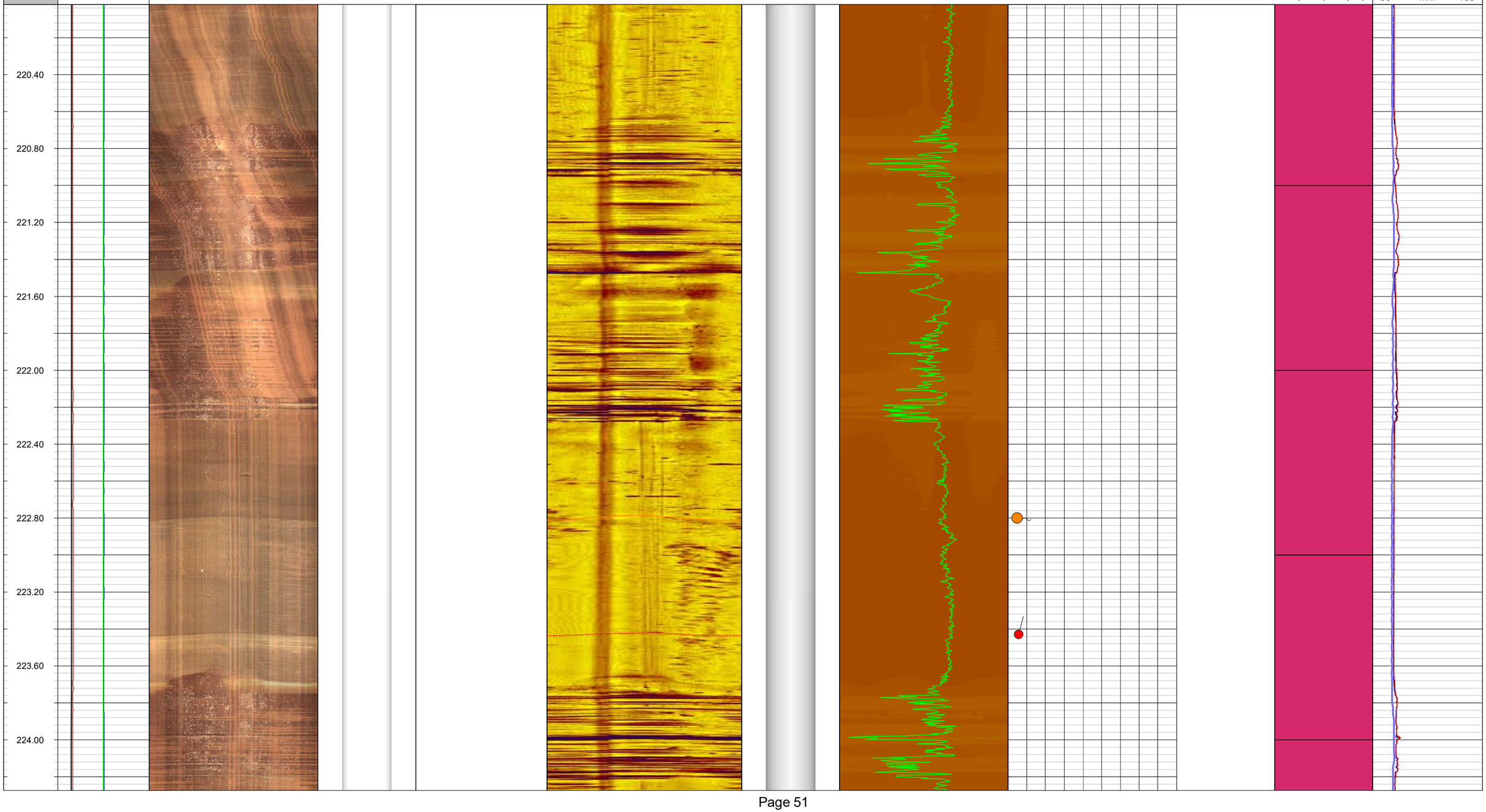


Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
207.60										
208.00										
208.40										
208.80										
209.20										
209.60										
210.00										
210.40										
210.80										
211.20										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
211.60												
212.00												
212.40												
212.80												
213.20												
213.60												
214.00												
214.40												
214.80												
215.20												
215.60												

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
216.00											
216.40											
216.80											
217.20											
217.60											
218.00											
218.40											
218.80											
219.20											
219.60											
220.00											

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

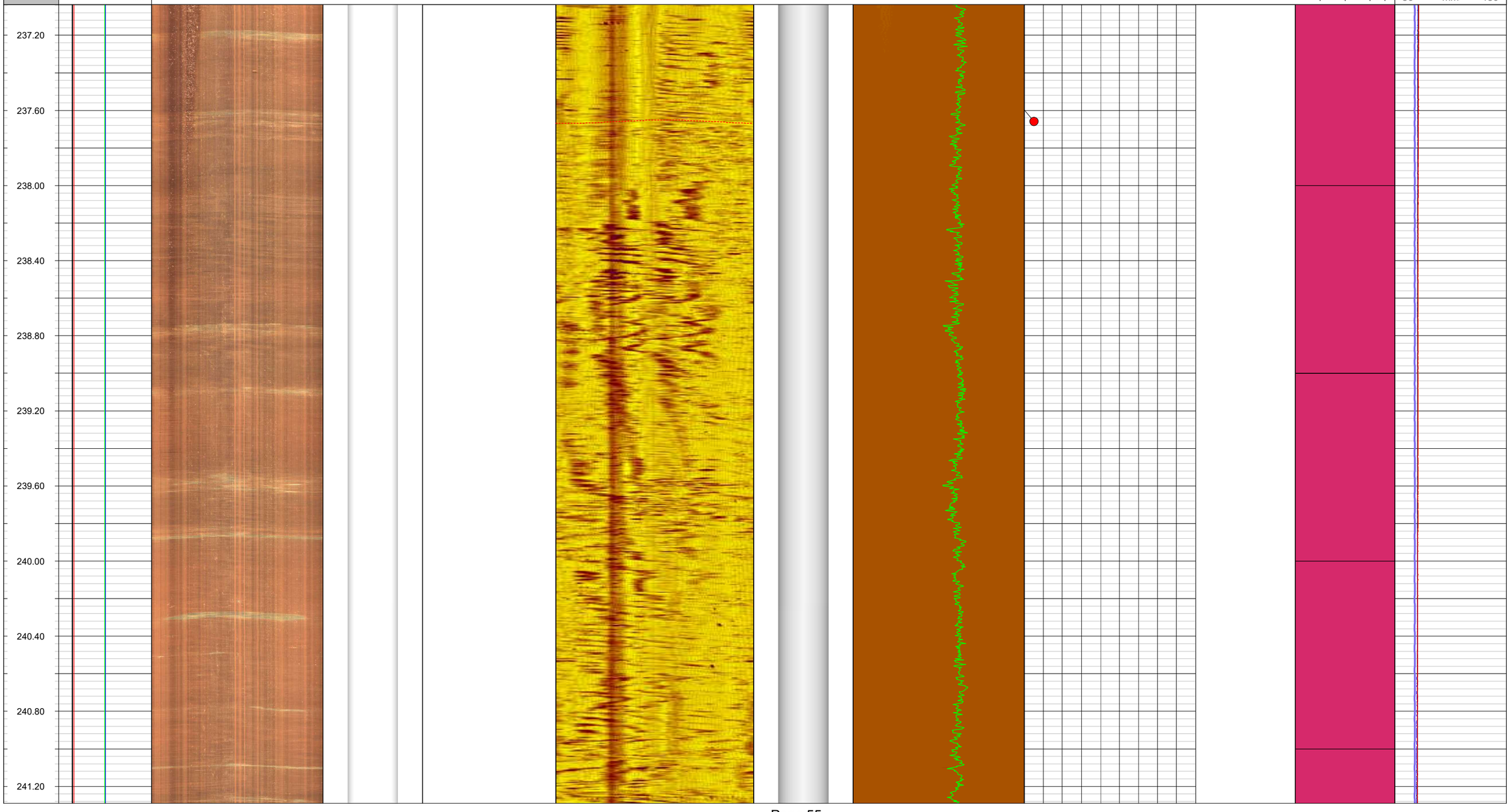


Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
224.40											
224.80											
225.20											
225.60											
226.00											
226.40											
226.80											
227.20											
227.60											
228.00											
228.40											

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
228.80										
229.20										
229.60										
230.00										
230.40										
230.80										
231.20										
231.60										
232.00										
232.40										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
232.80												
233.20												
233.60												
234.00												
234.40												
234.80												
235.20												
235.60												
236.00												
236.40												
236.80												

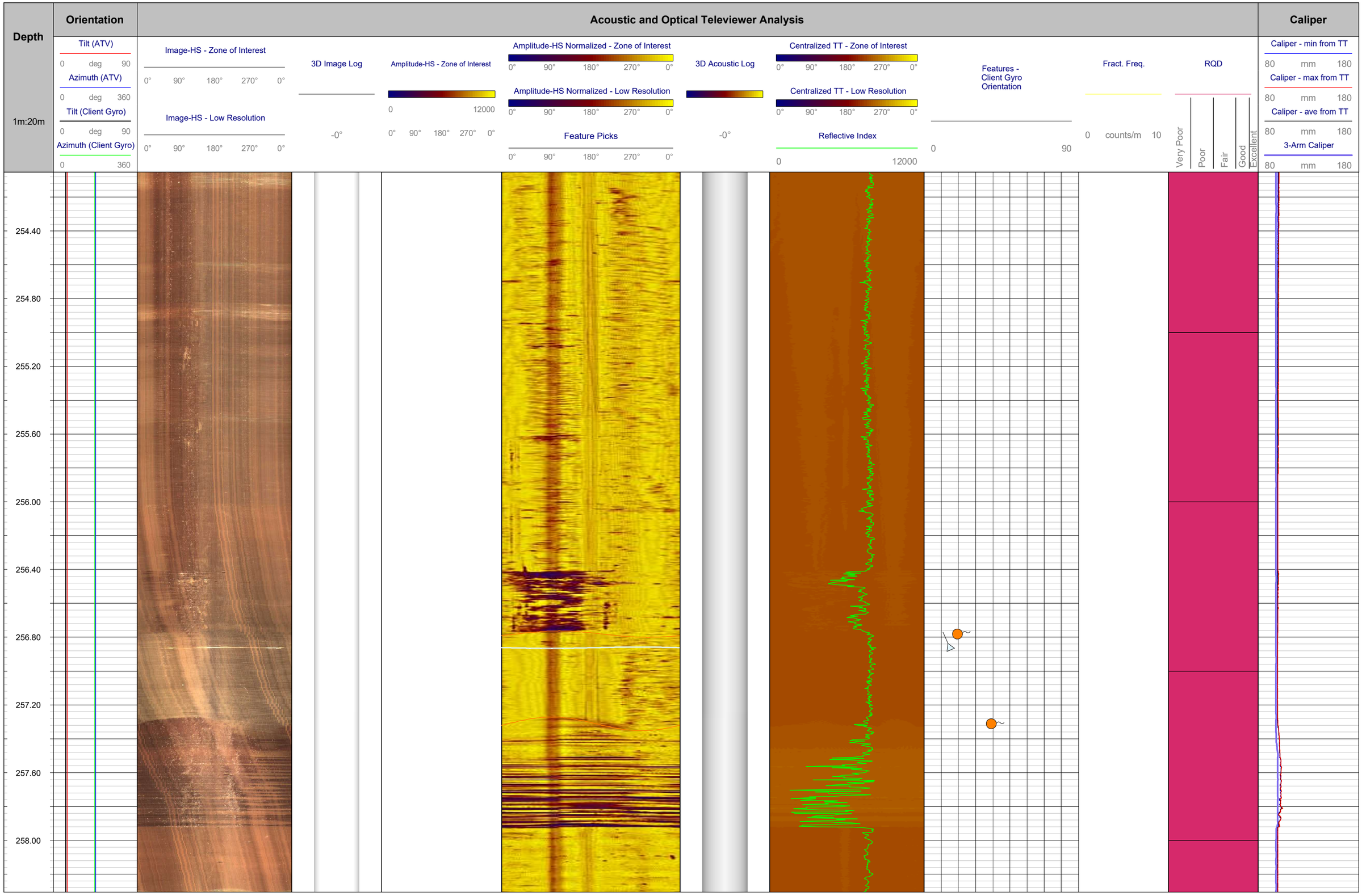
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



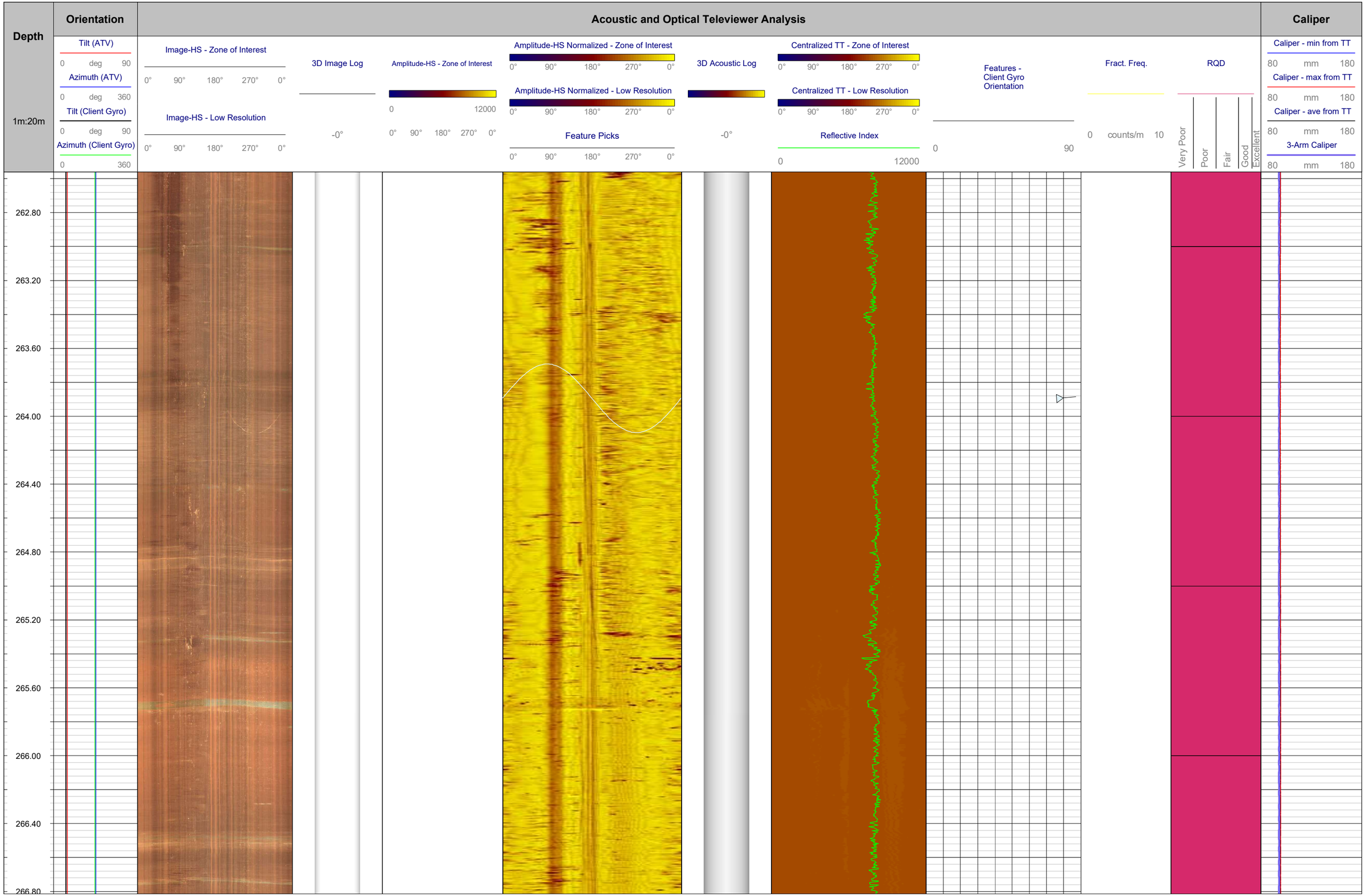
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
241.60												
242.00												
242.40												
242.80												
243.20												
243.60												
244.00												
244.40												
244.80												
245.20												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
245.60												
246.00												
246.40												
246.80												
247.20												
247.60												
248.00												
248.40												
248.80												
249.20												
249.60												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
250.00												
250.40												
250.80												
251.20												
251.60												
252.00												
252.40												
252.80												
253.20												
253.60												
254.00												

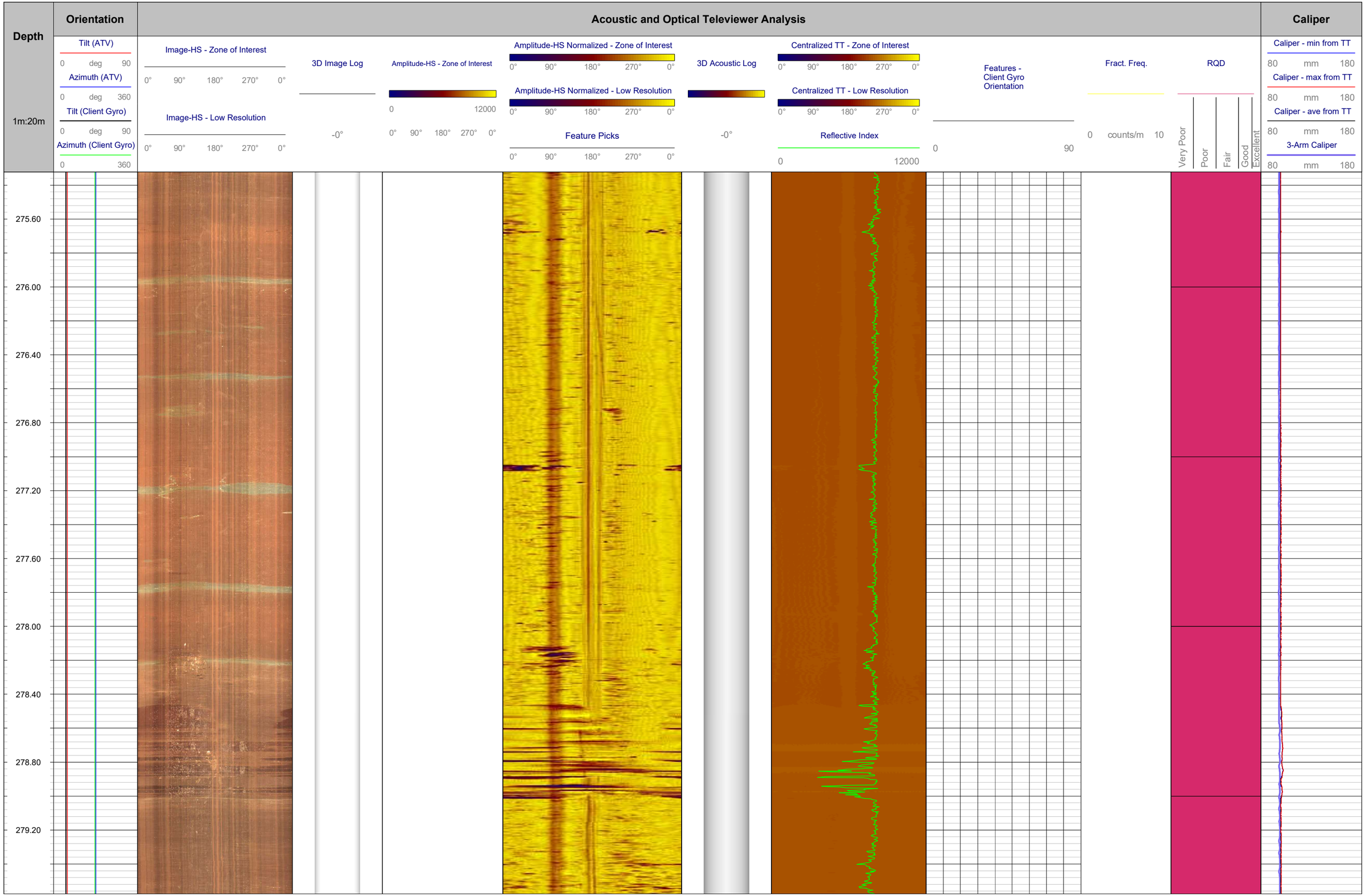

Depth
1m:20m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
254.40
254.80
255.20
255.60
256.00
256.40
256.80
257.20
257.60
258.00

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
258.40										
258.80										
259.20										
259.60										
260.00										
260.40										
260.80										
261.20										
261.60										
262.00										
262.40										


Depth
1m:20m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
262.80
263.20
263.60
264.00
264.40
264.80
265.20
265.60
266.00
266.40
266.80

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
267.20											
267.60											
268.00											
268.40											
268.80											
269.20											
269.60											
270.00											
270.40											
270.80											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
271.20												
271.60												
272.00												
272.40												
272.80												
273.20												
273.60												
274.00												
274.40												
274.80												
275.20												

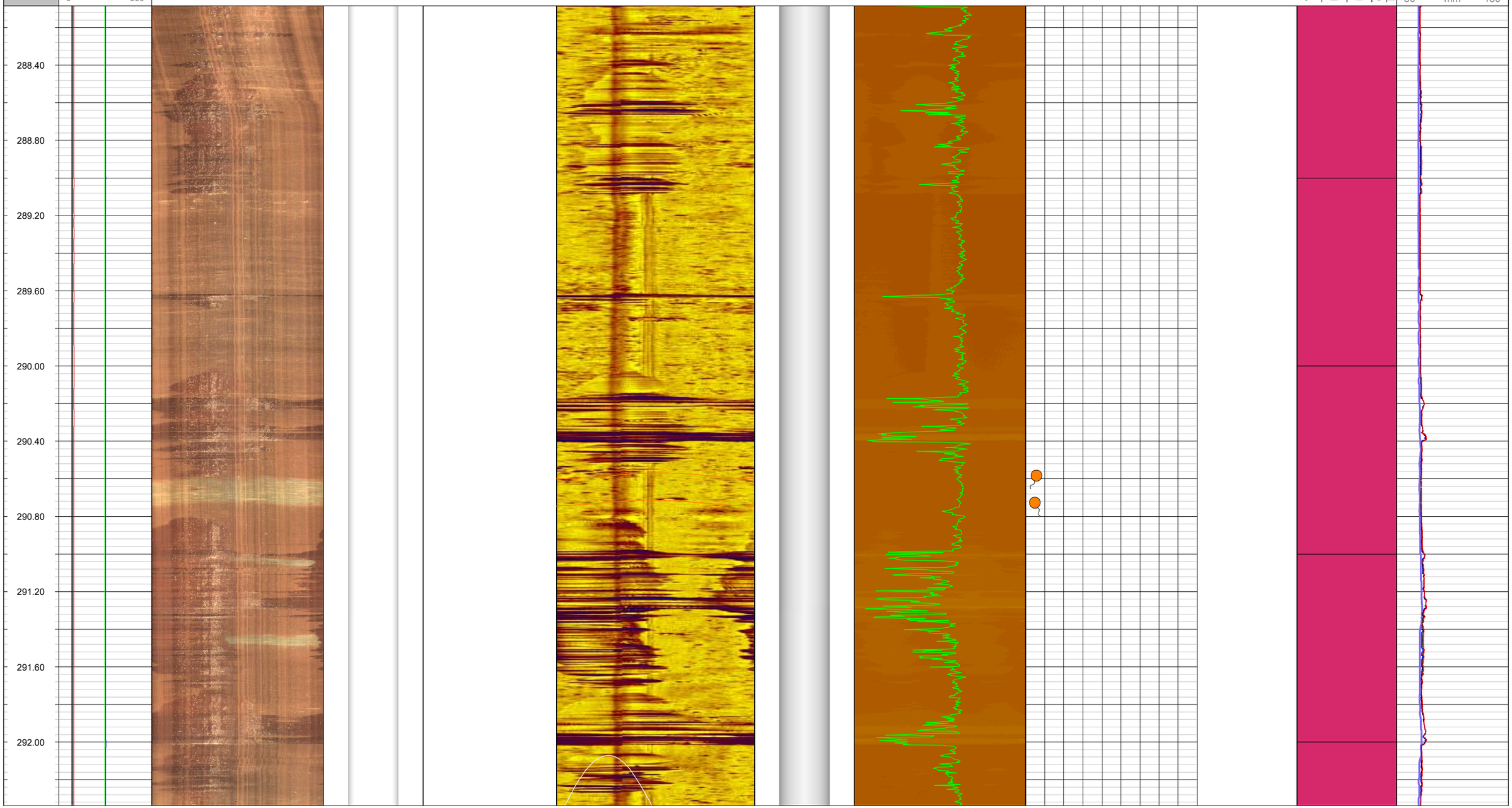

Depth
1m:20m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
275.60
276.00
276.40
276.80
277.20
277.60
278.00
278.40
278.80
279.20

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

279.60
280.00
280.40
280.80
281.20
281.60
282.00
282.40
282.80
283.20
283.60

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
284.00												
284.40												
284.80												
285.20												
285.60												
286.00												
286.40												
286.80												
287.20												
287.60												
288.00												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
292.40 292.80 293.20 293.60 294.00 294.40 294.80 295.20 295.60 296.00 296.40												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
296.80												
297.20												
297.60												
298.00												
298.40												
298.80												
299.20												
299.60												
300.00												
300.40												
300.80												

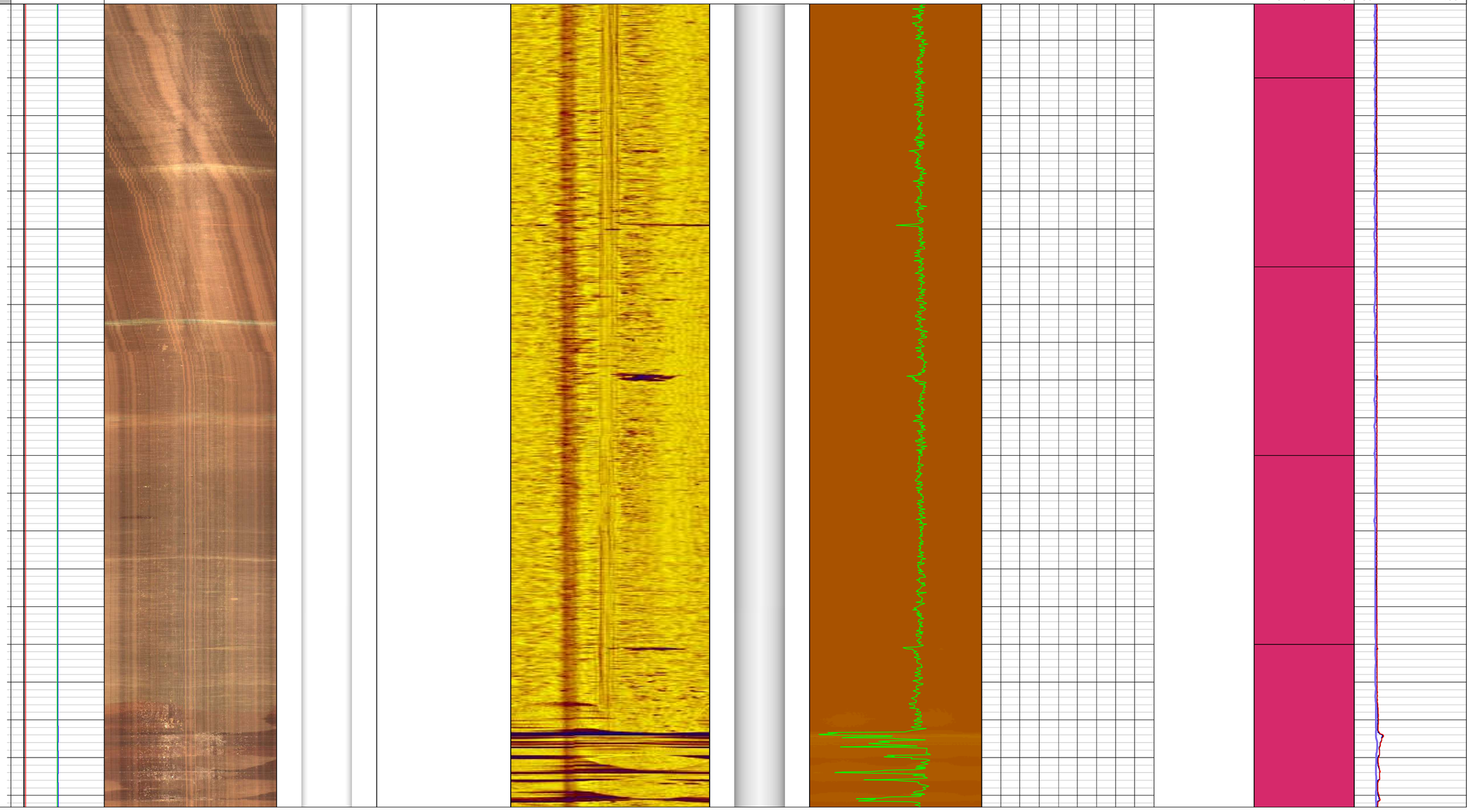
Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
301.20										
301.60										
302.00										
302.40										
302.80										
303.20										
303.60										
304.00										
304.40										
304.80										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
305.20												
305.60												
306.00												
306.40												
306.80												
307.20												
307.60												
308.00												
308.40												
308.80												
309.20												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

309.60
310.00
310.40
310.80
311.20
311.60
312.00
312.40
312.80
313.20
313.60

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
318.00 318.40 318.80 319.20 319.60 320.00 320.40 320.80 321.20 321.60 322.00												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
322.40												
322.80												
323.20												
323.60												
324.00												
324.40												
324.80												
325.20												
325.60												
326.00												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
326.40												
326.80												
327.20												
327.60												
328.00												
328.40												
328.80												
329.20												
329.60												
330.00												
330.40												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

330.80
331.20
331.60
332.00
332.40
332.80
333.20
333.60
334.00
334.40
334.80

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
335.20											
335.60											
336.00											
336.40											
336.80											
337.20											
337.60											
338.00											
338.40											
338.80											

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

339.20
339.60
340.00
340.40
340.80
341.20
341.60
342.00
342.40
342.80
343.20

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
343.60											
344.00											
344.40											
344.80											
345.20											
345.60											
346.00											
346.40											
346.80											
347.20											
347.60											

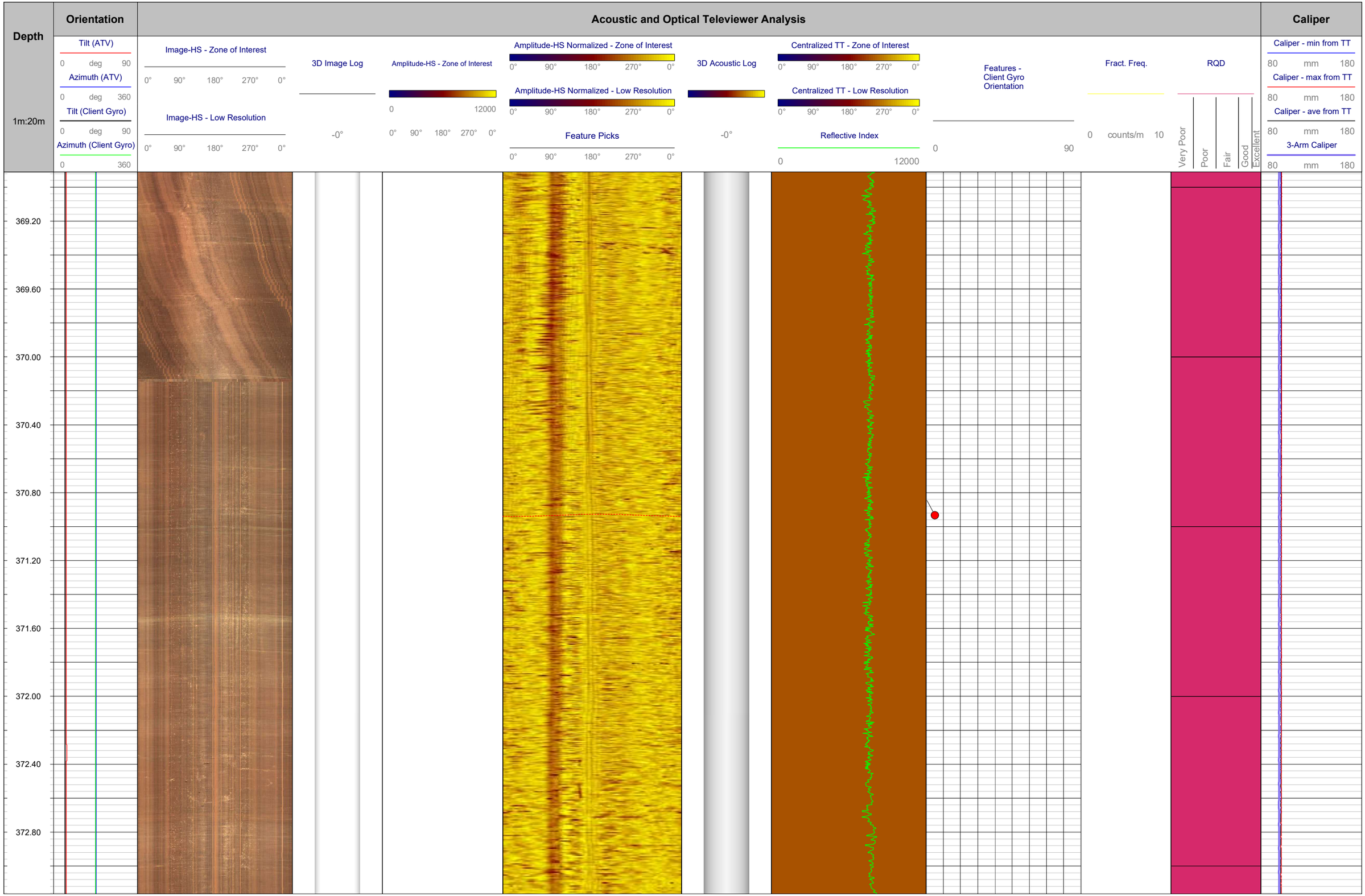
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
348.00												
348.40												
348.80												
349.20												
349.60												
350.00												
350.40												
350.80												
351.20												
351.60												

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
352.00										
352.40										
352.80										
353.20										
353.60										
354.00										
354.40										
354.80										
355.20										
355.60										
356.00										

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
356.40											
356.80											
357.20											
357.60											
358.00											
358.40											
358.80											
359.20											
359.60											
360.00											
360.40											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
360.40												
360.80												
361.20												
361.60												
362.00												
362.40												
362.80												
363.20												
363.60												
364.00												
364.40												

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
364.80 365.20 365.60 366.00 366.40 366.80 367.20 367.60 368.00 368.40 368.80										


Depth
1m:20m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
369.20
369.60
370.00
370.40
370.80
371.20
371.60
372.00
372.40
372.80

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
373.20										
373.60										
374.00										
374.40										
374.80										
375.20										
375.60										
376.00										
376.40										
376.80										
377.20										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
377.60												
378.00												
378.40												
378.80												
379.20												
379.60												
380.00												
380.40												
380.80												
381.20												
381.60												

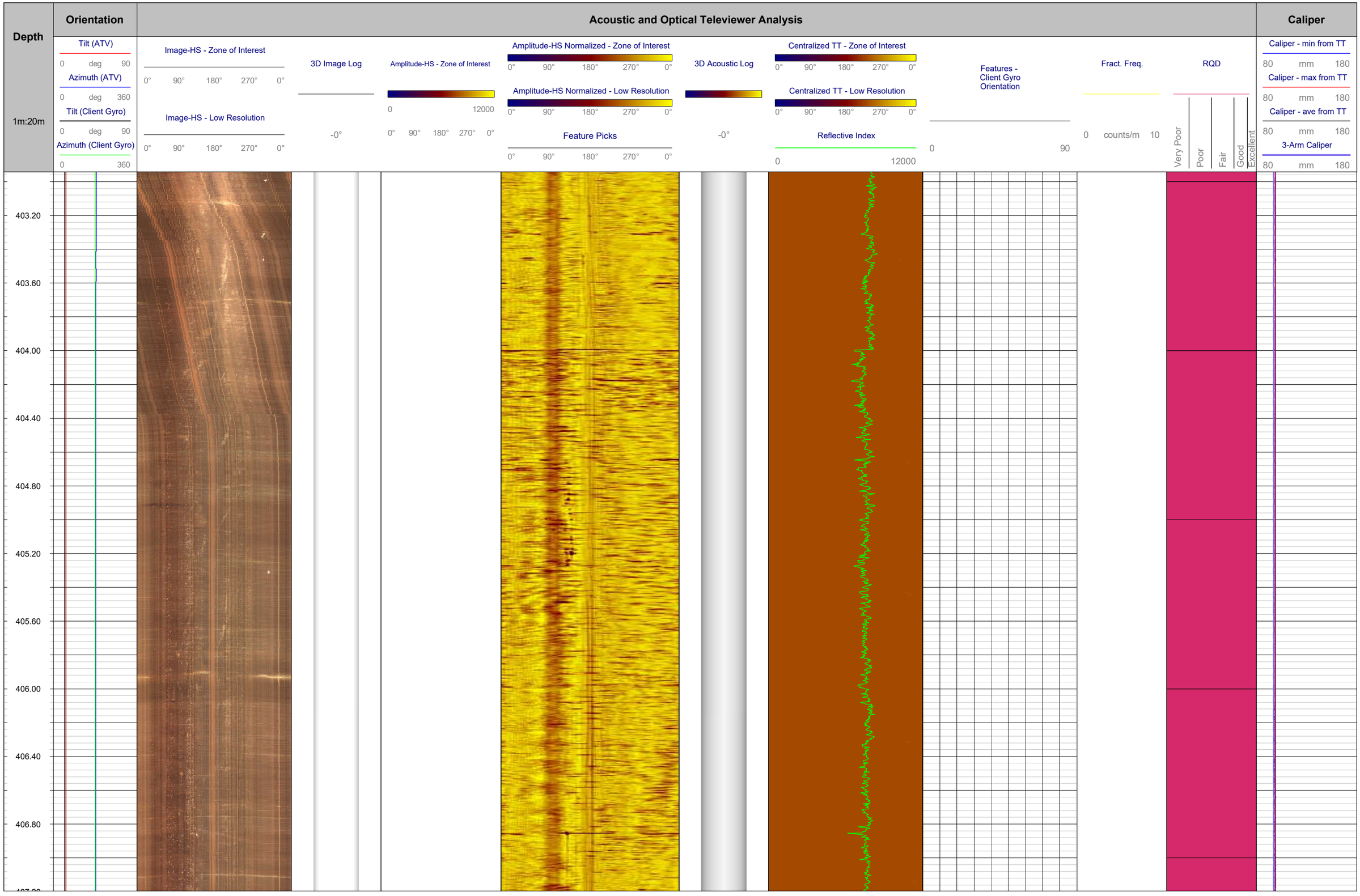
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
382.00											
382.40											
382.80											
383.20											
383.60											
384.00											
384.40											
384.80											
385.20											
385.60											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
386.00												
386.40												
386.80												
387.20												
387.60												
388.00												
388.40												
388.80												
389.20												
389.60												
390.00												

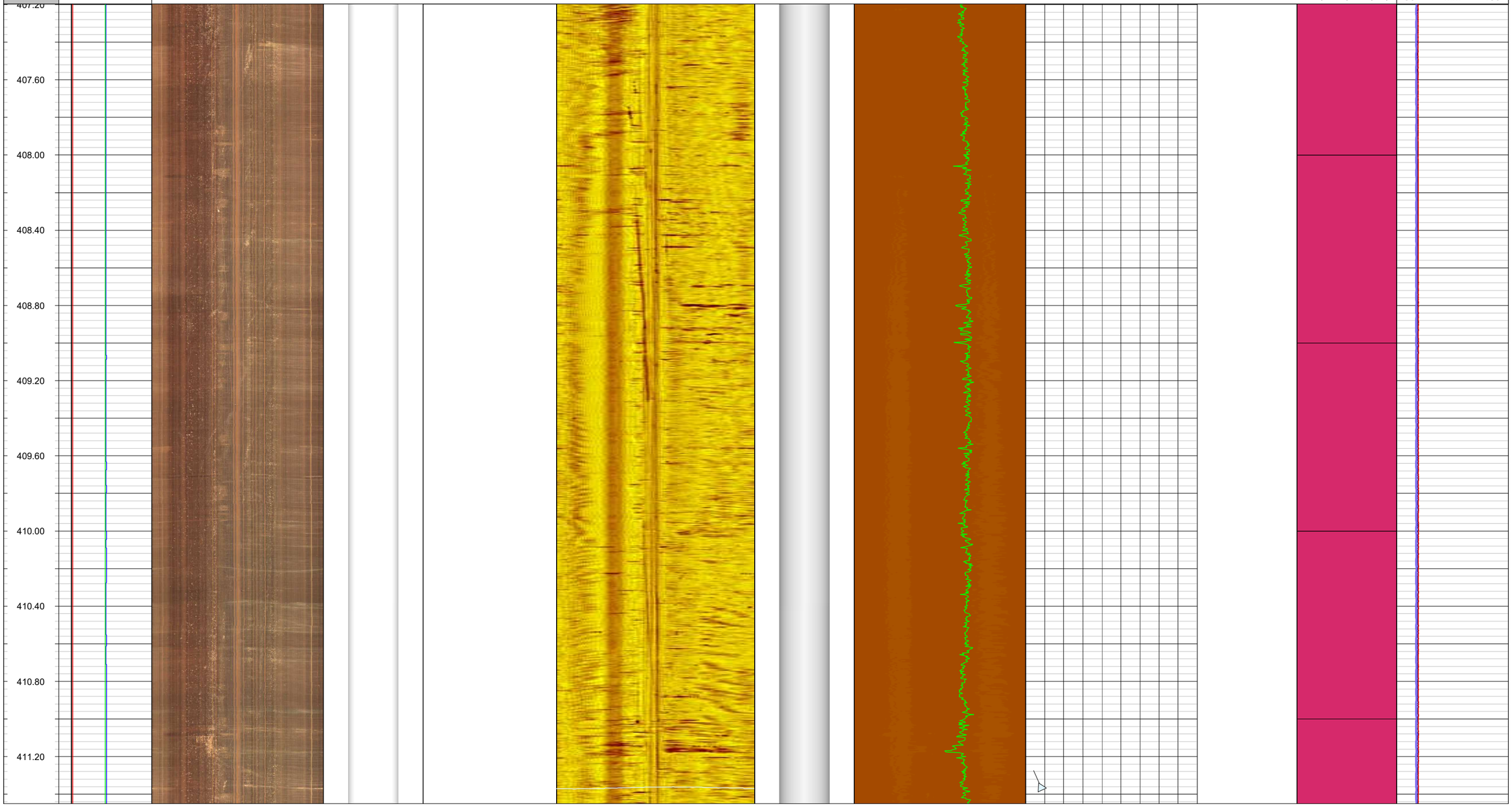
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
390.40												
390.80												
391.20												
391.60												
392.00												
392.40												
392.80												
393.20												
393.60												
394.00												
394.40												

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
394.80											
395.20											
395.60											
396.00											
396.40											
396.80											
397.20											
397.60											
398.00											
398.40											

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
398.80											
399.20											
399.60											
400.00											
400.40											
400.80											
401.20											
401.60											
402.00											
402.40											
402.80											


Depth
1m:20m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
403.20
403.60
404.00
404.40
404.80
405.20
405.60
406.00
406.40
406.80

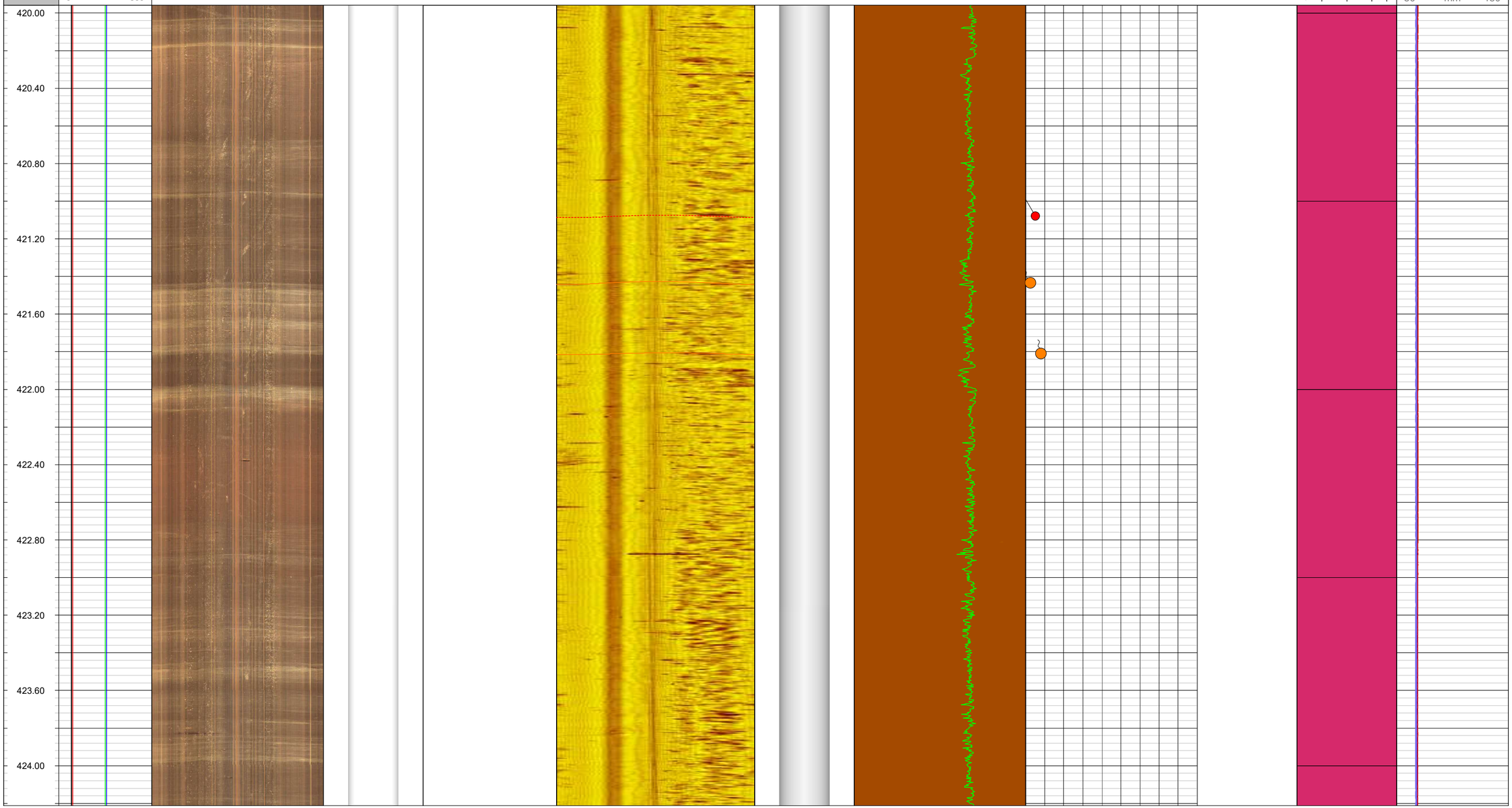
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
411.60											
412.00											
412.40											
412.80											
413.20											
413.60											
414.00											
414.40											
414.80											
415.20											
415.60											

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
416.00											
416.40											
416.80											
417.20											
417.60											
418.00											
418.40											
418.80											
419.20											
419.60											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
424.40												
424.80												
425.20												
425.60												
426.00												
426.40												
426.80												
427.20												
427.60												
428.00												
428.40												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
428.80												
429.20												
429.60												
430.00												
430.40												
430.80												
431.20												
431.60												
432.00												
432.40												

Depth

1m:20m

Orientation

Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360

Acoustic and Optical Televiewer Analysis

Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°

3D Image Log
-0°

Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°

Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°

3D Acoustic Log
-0°

Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000

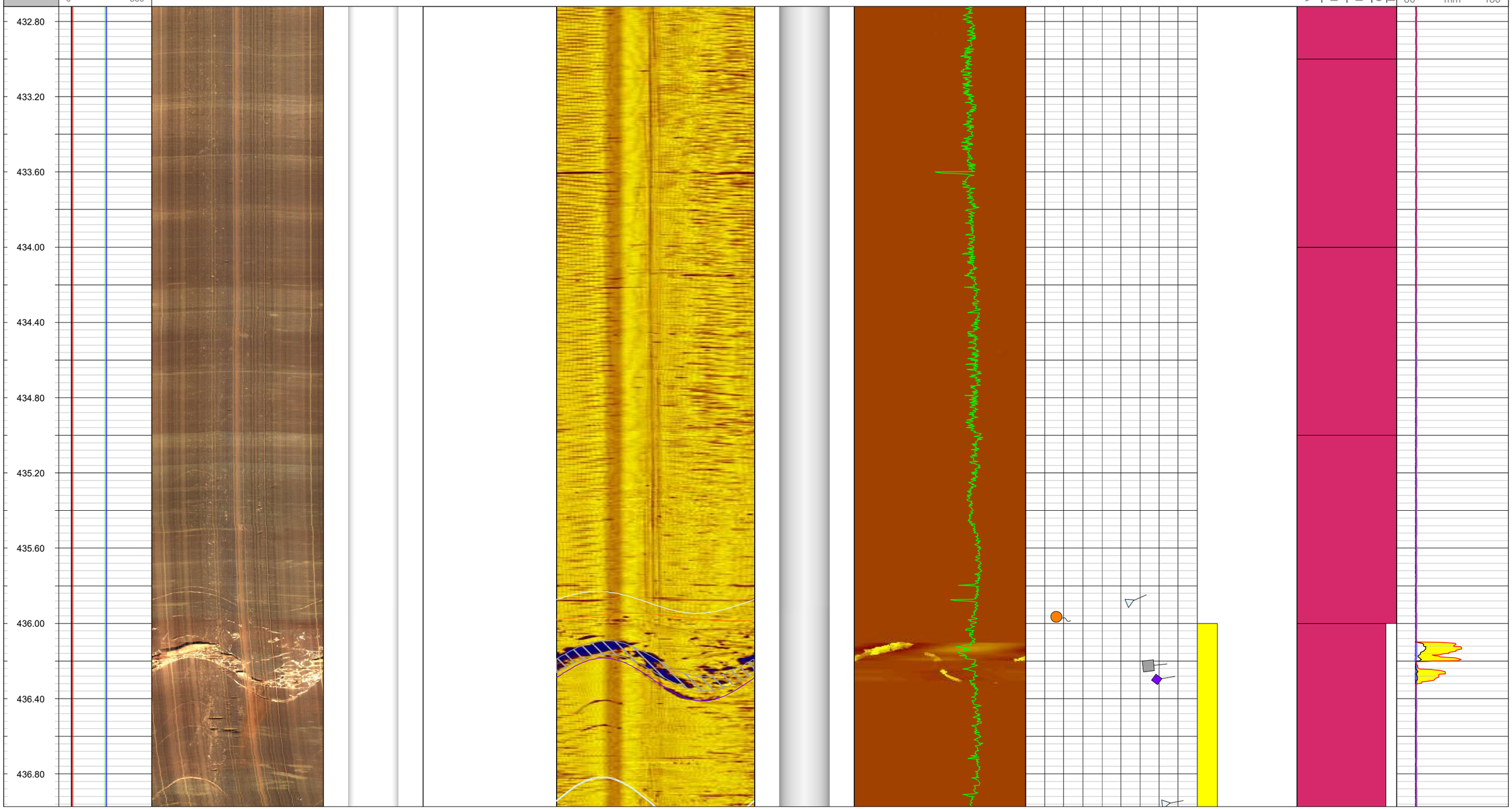
Features - Client Gyro Orientation
0 90

Fract. Freq.
0 counts/m 10

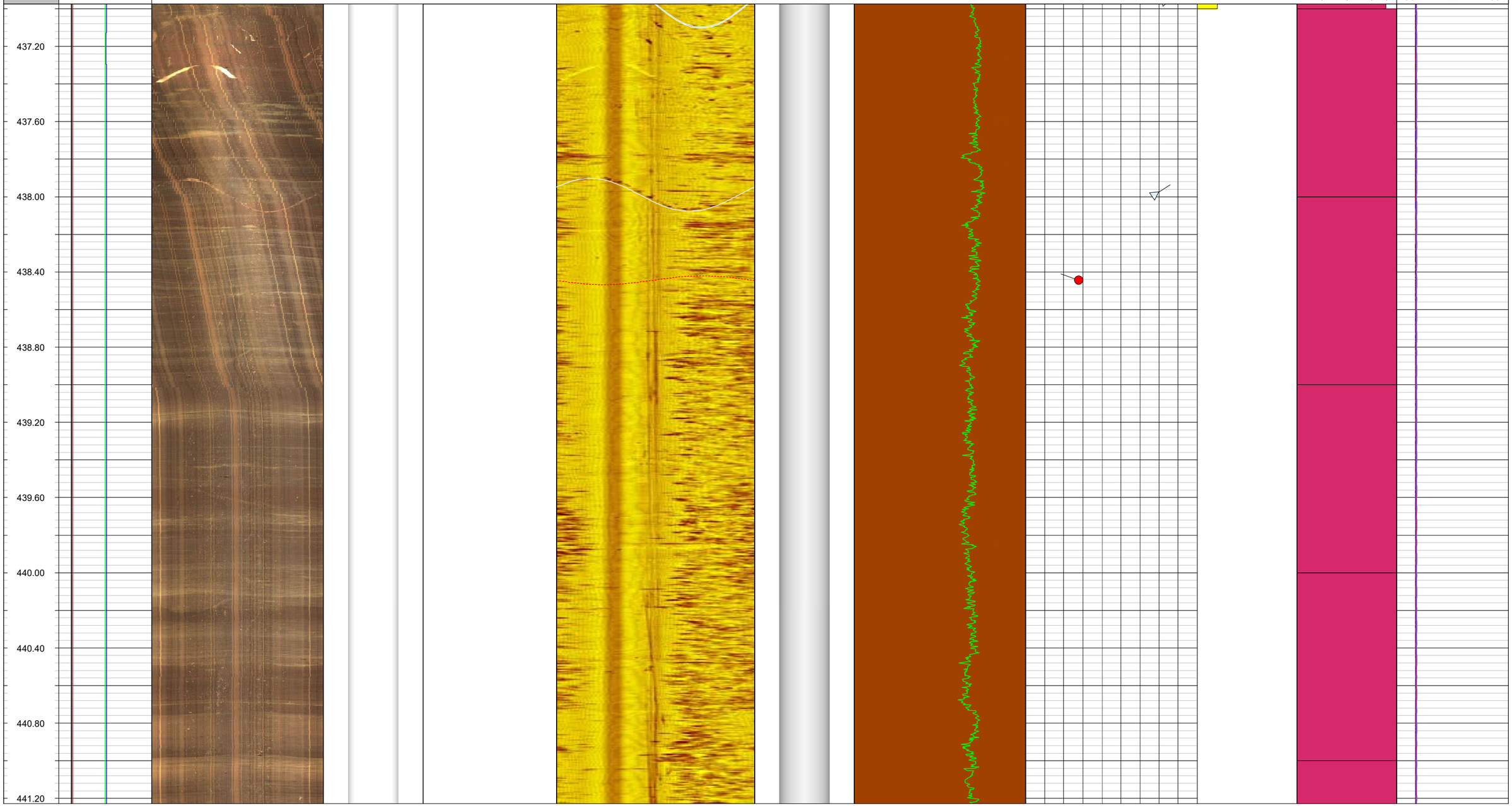
RQD
Very Poor
Poor
Fair
Good
Excellent

Caliper

Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180



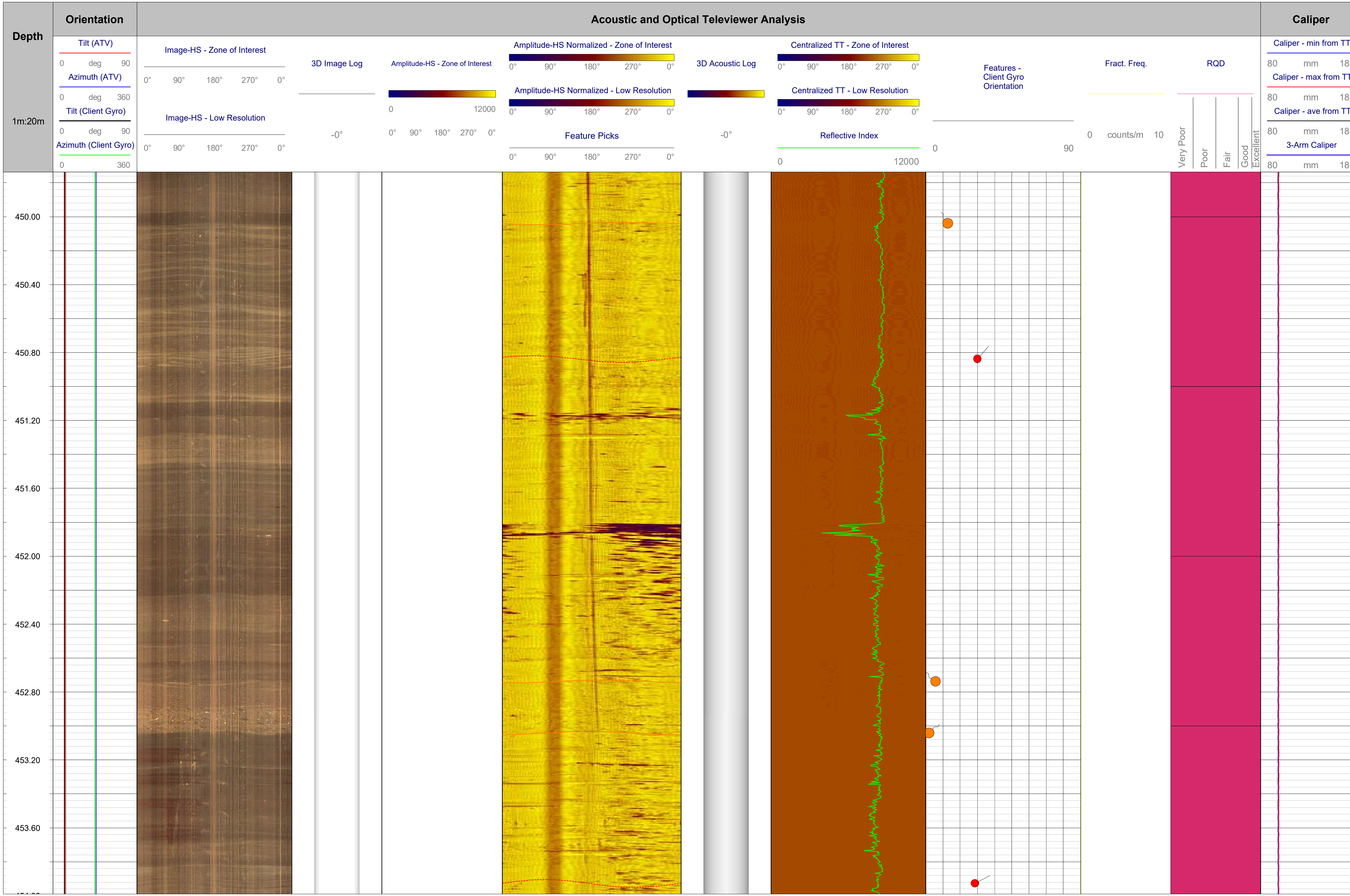
Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

441.60
442.00
442.40
442.80
443.20
443.60
444.00
444.40
444.80
445.20

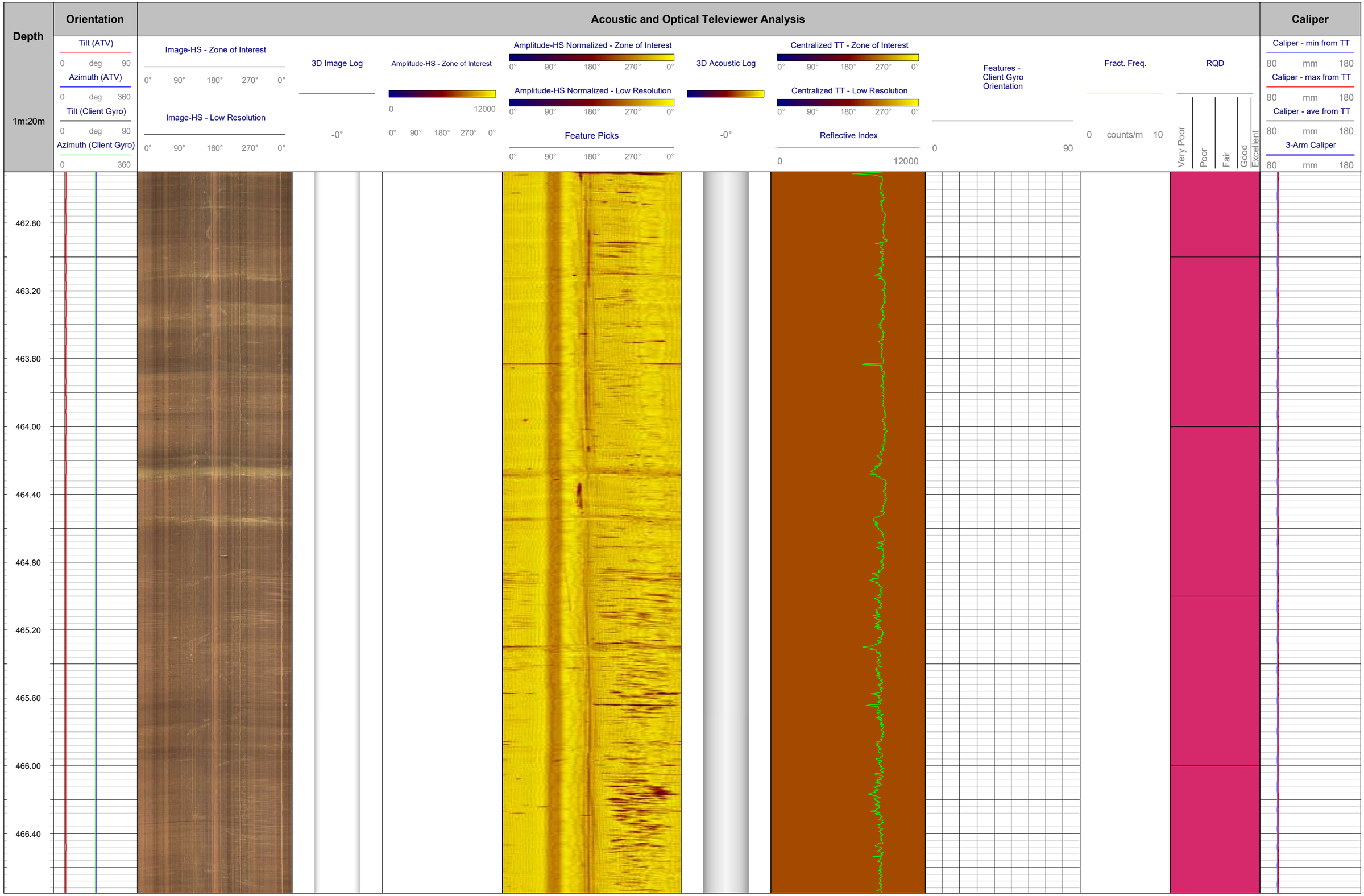
Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
445.60											
446.00											
446.40											
446.80											
447.20											
447.60											
448.00											
448.40											
448.80											
449.20											
449.60											


Depth
1m:20m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
450.00
450.40
450.80
451.20
451.60
452.00
452.40
452.80
453.20
453.60

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
454.00											
454.40											
454.80											
455.20											
455.60											
456.00											
456.40											
456.80											
457.20											
457.60											
458.00											

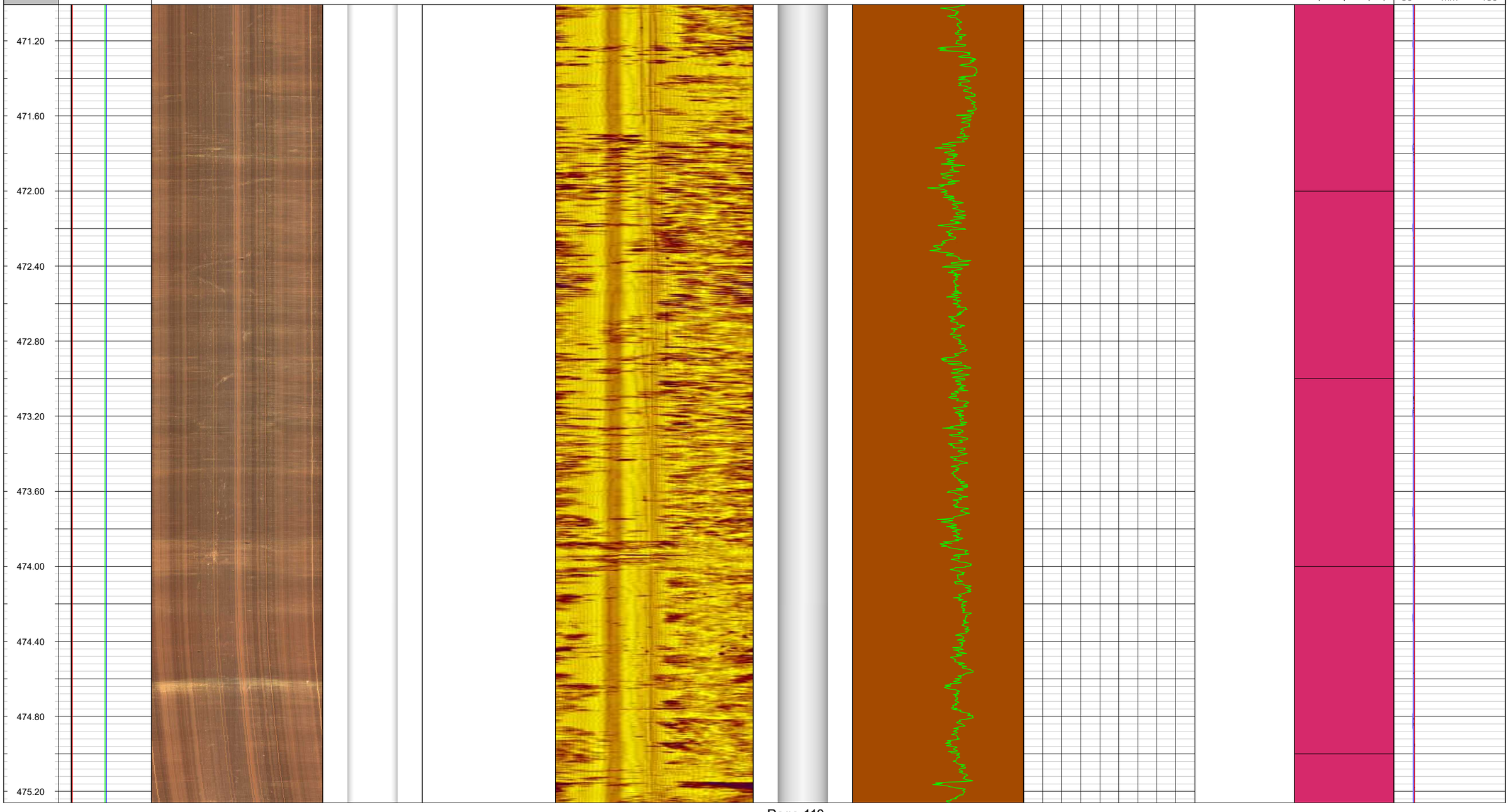
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

458.40
458.80
459.20
459.60
460.00
460.40
460.80
461.20
461.60
462.00
462.40


Depth
1m:20m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
462.80
463.20
463.60
464.00
464.40
464.80
465.20
465.60
466.00
466.40

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
466.80												
467.20												
467.60												
468.00												
468.40												
468.80												
469.20												
469.60												
470.00												
470.40												
470.80												

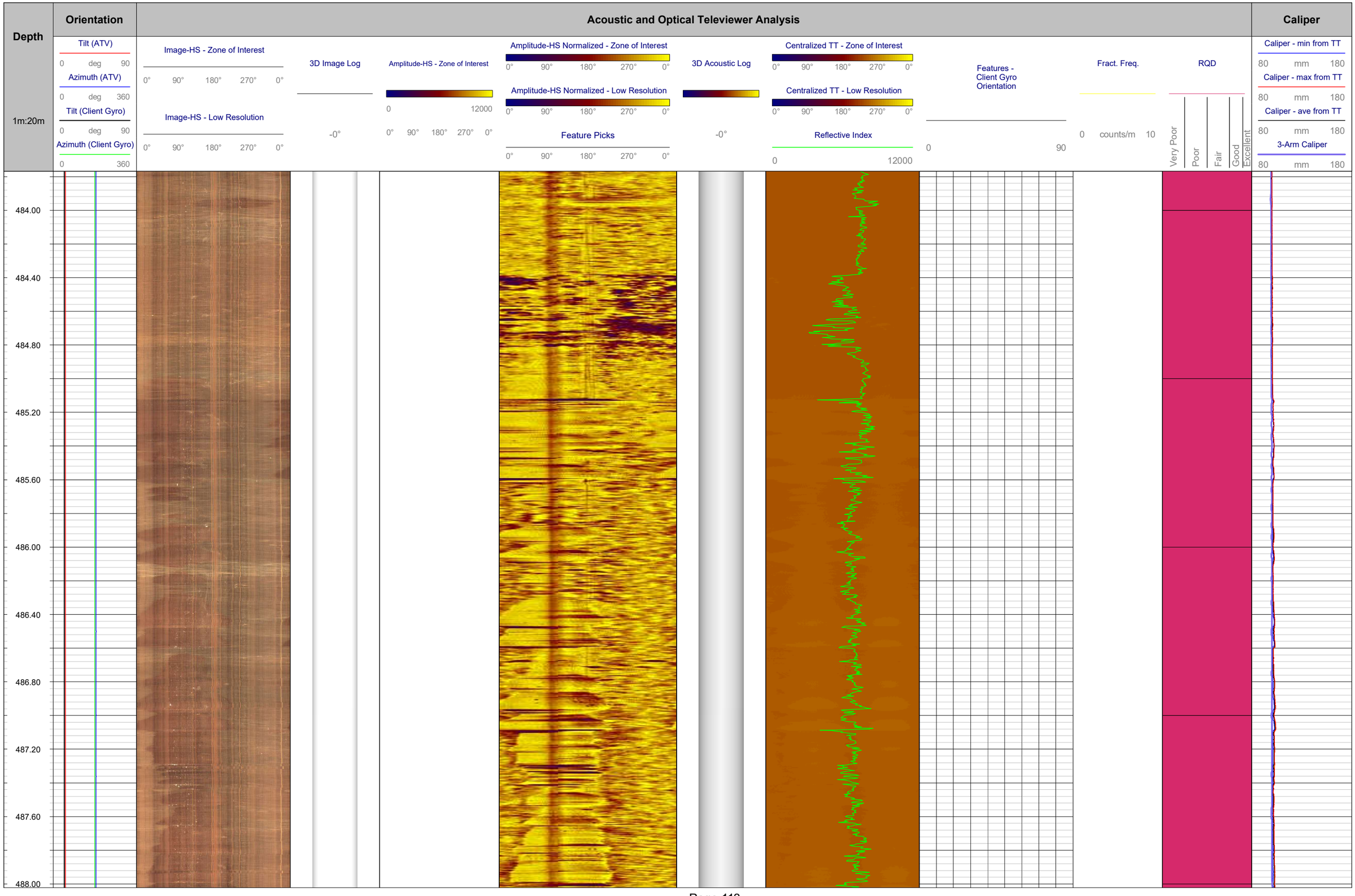
Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
475.60										
476.00										
476.40										
476.80										
477.20										
477.60										
478.00										
478.40										
478.80										
479.20										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

479.60
480.00
480.40
480.80
481.20
481.60
482.00
482.40
482.80
483.20
483.60


Depth
1m:20m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
484.00
484.40
484.80
485.20
485.60
486.00
486.40
486.80
487.20
487.60
488.00

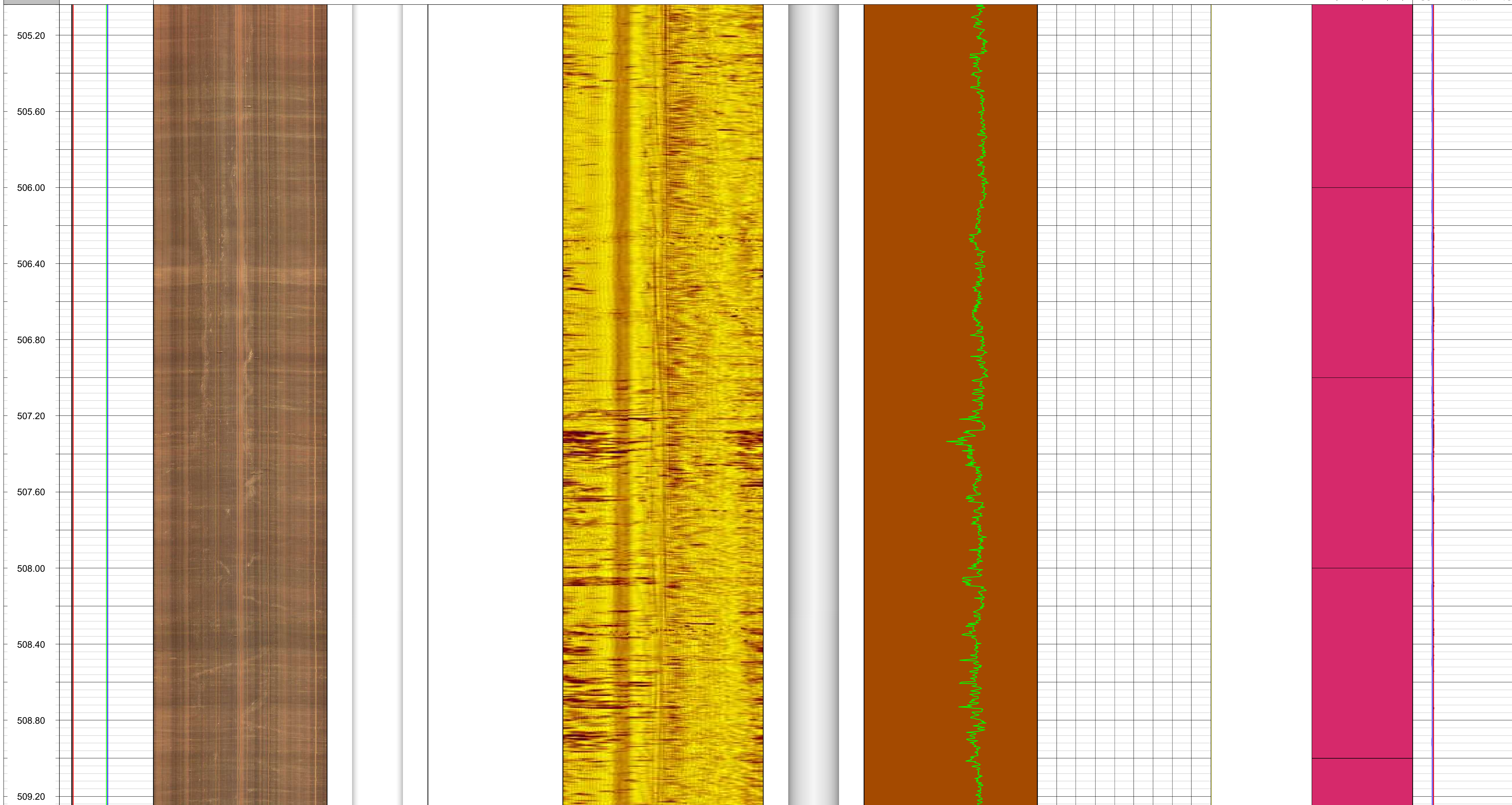
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
488.40											
488.80											
489.20											
489.60											
490.00											
490.40											
490.80											
491.20											
491.60											
492.00											

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
492.40										
492.80										
493.20										
493.60										
494.00										
494.40										
494.80										
495.20										
495.60										
496.00										
496.40										

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
496.80											
497.20											
497.60											
498.00											
498.40											
498.80											
499.20											
499.60											
500.00											
500.40											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
500.80												
501.20												
501.60												
502.00												
502.40												
502.80												
503.20												
503.60												
504.00												
504.40												
504.80												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent		Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



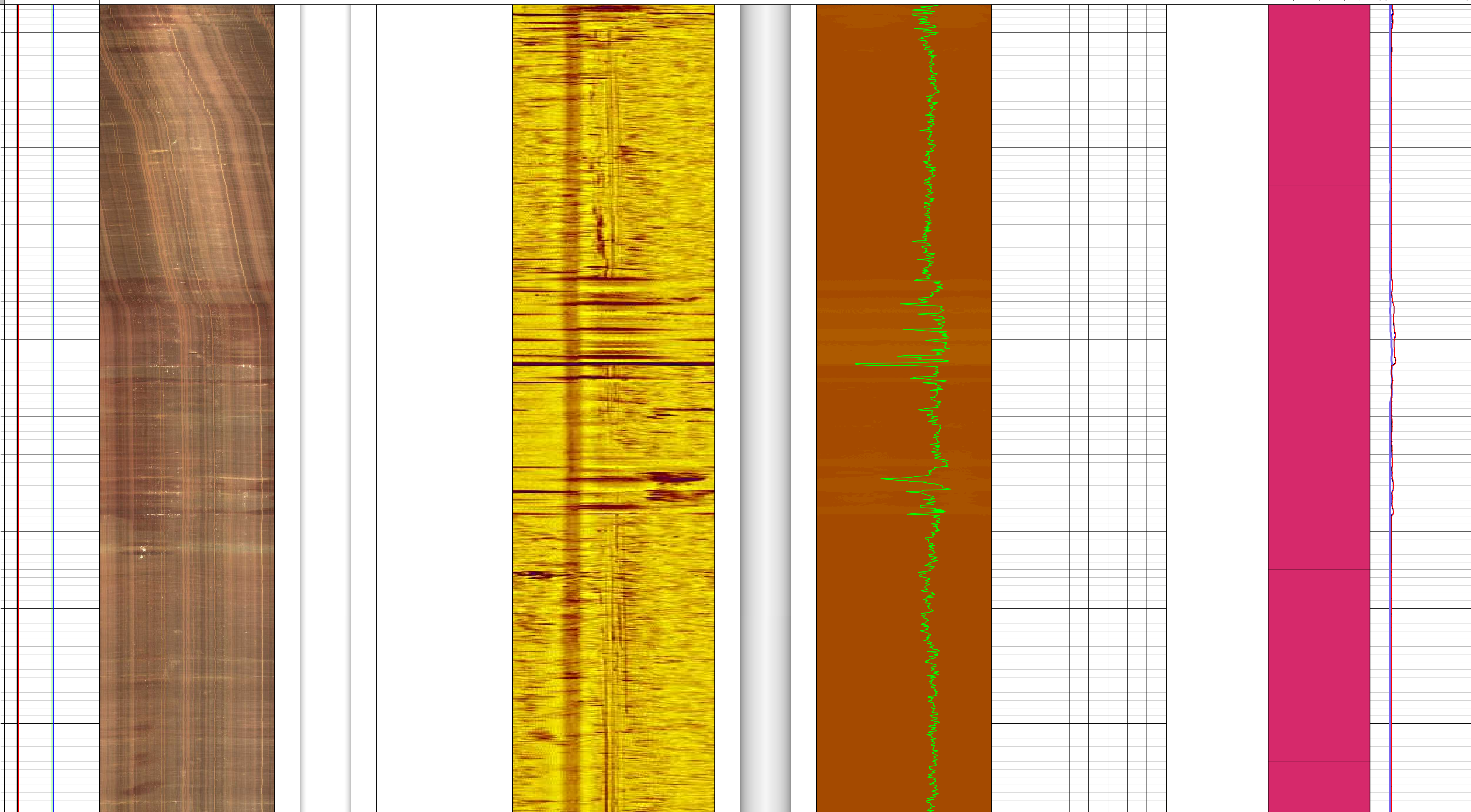
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
509.60												
510.00												
510.40												
510.80												
511.20												
511.60												
512.00												
512.40												
512.80												
513.20												

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
513.60 514.00 514.40 514.80 515.20 515.60 516.00 516.40 516.80 517.20 517.60										

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
518.00											
518.40											
518.80											
519.20											
519.60											
520.00											
520.40											
520.80											
521.20											
521.60											
522.00											

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor, Poor, Fair, Good, Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

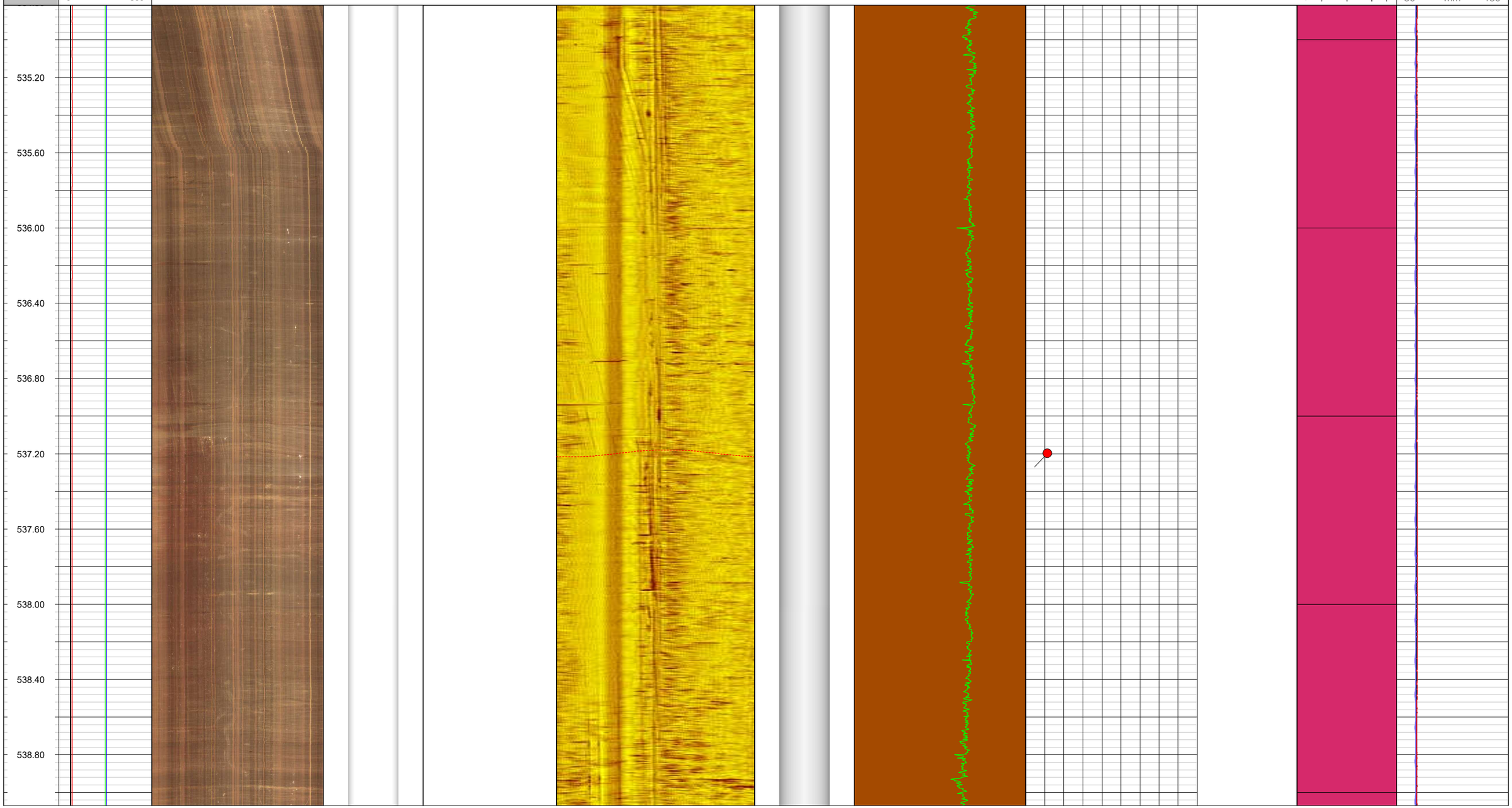
522.40
522.80
523.20
523.60
524.00
524.40
524.80
525.20
525.60
526.00



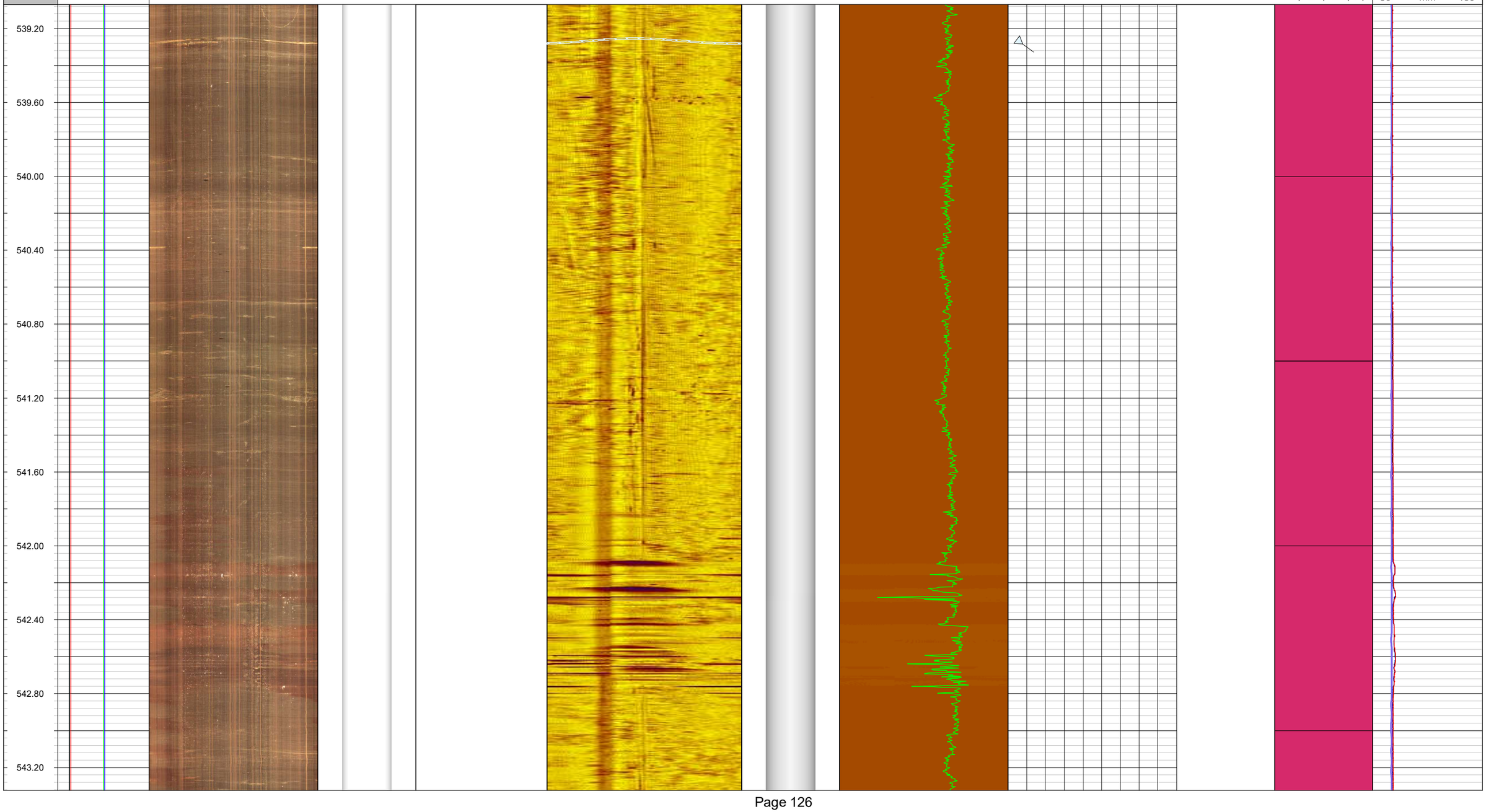
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
526.40												
526.80												
527.20												
527.60												
528.00												
528.40												
528.80												
529.20												
529.60												
530.00												
530.40												

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
530.80 531.20 531.60 532.00 532.40 532.80 533.20 533.60 534.00 534.40 534.80										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
543.60												
544.00												
544.40												
544.80												
545.20												
545.60												
546.00												
546.40												
546.80												
547.20												

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
547.60											
548.00											
548.40											
548.80											
549.20											
549.60											
550.00											
550.40											
550.80											
551.20											
551.60											

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

552.00
552.40
552.80
553.20
553.60
554.00
554.40
554.80
555.20
555.60
556.00

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
556.40											
556.80											
557.20											
557.60											
558.00											
558.40											
558.80											
559.20											
559.60											
560.00											

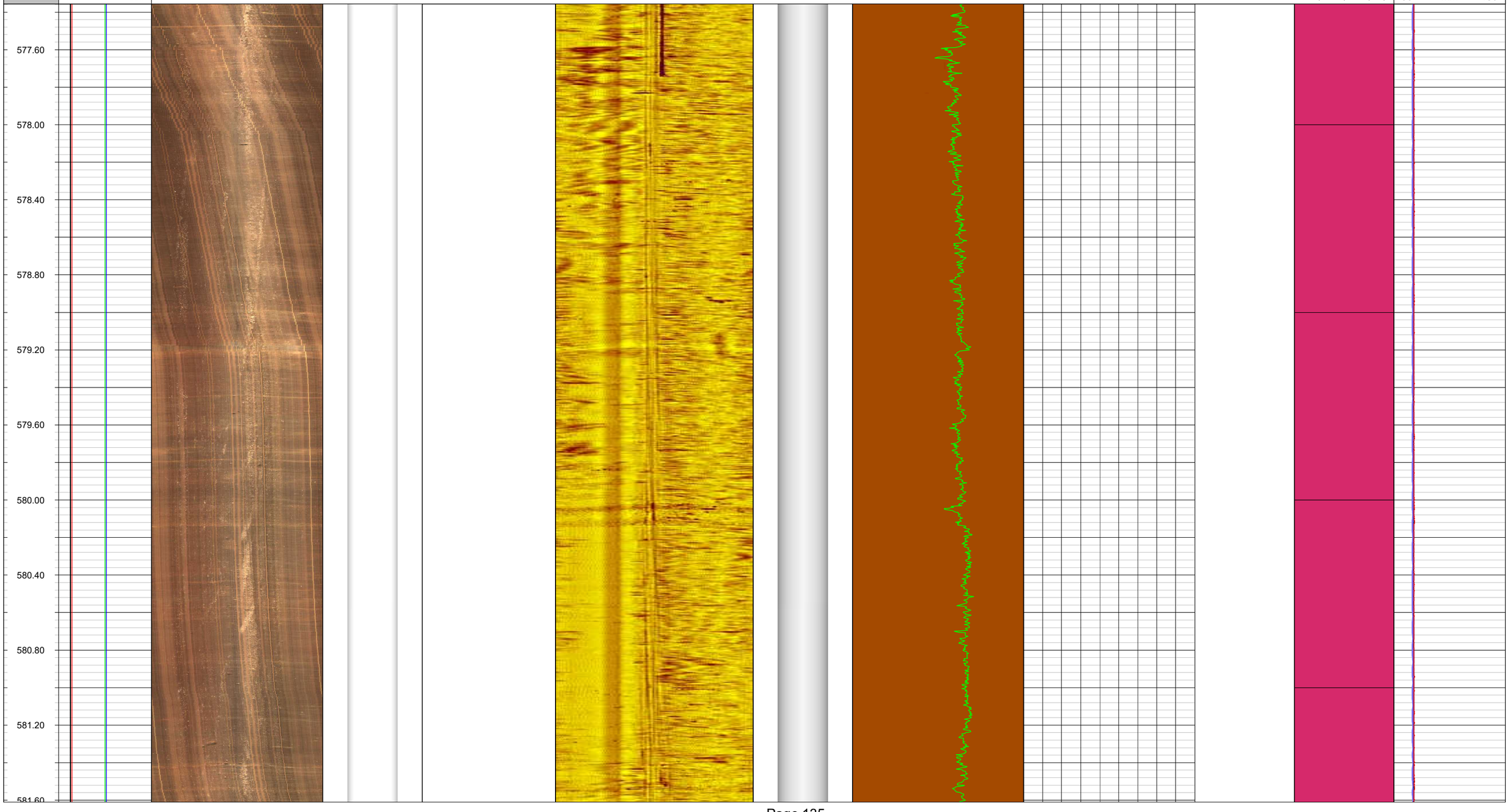
Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
560.40											
560.80											
561.20											
561.60											
562.00											
562.40											
562.80											
563.20											
563.60											
564.00											
564.40											

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
564.80											
565.20											
565.60											
566.00											
566.40											
566.80											
567.20											
567.60											
568.00											
568.40											
568.80											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
569.20											
569.60											
570.00											
570.40											
570.80											
571.20											
571.60											
572.00											
572.40											
572.80											

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
573.20											
573.60											
574.00											
574.40											
574.80											
575.20											
575.60											
576.00											
576.40											
576.80											
577.20											

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

582.00
582.40
582.80
583.20
583.60
584.00
584.40
584.80
585.20
585.60

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
586.00										
586.40										
586.80										
587.20										
587.60										
588.00										
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588.80										
589.20										
589.60										
590.00										

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
590.40										
590.80										
591.20										
591.60										
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592.40										
592.80										
593.20										
593.60										
594.00										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
594.40												
594.80												
595.20												
595.60												
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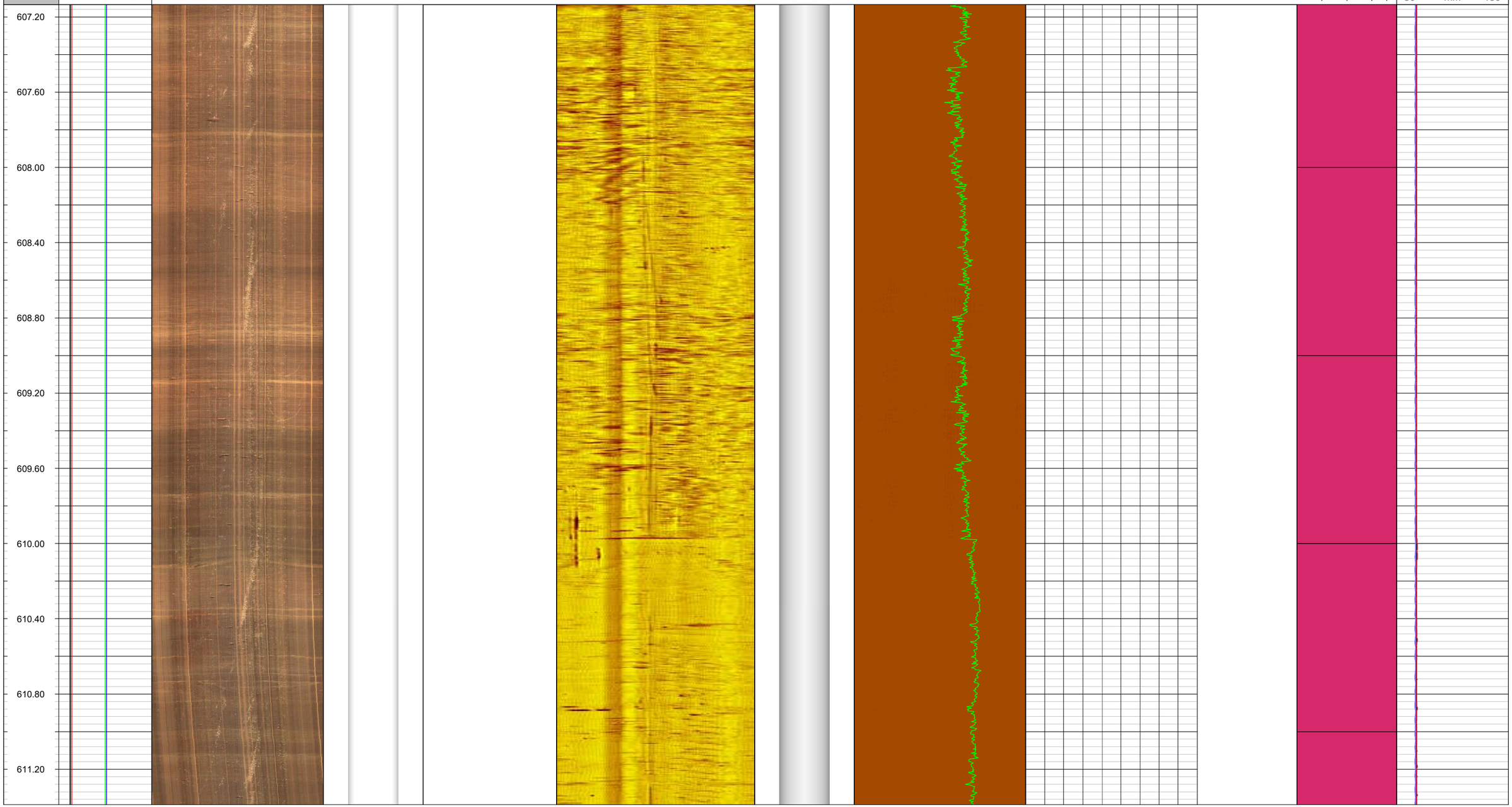
598.40												

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
598.80											
599.20											
599.60											
600.00											
600.40											
600.80											
601.20											
601.60											
602.00											
602.40											
602.80											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
603.20											
603.60											
604.00											
604.40											
604.80											
605.20											
605.60											
606.00											
606.40											
606.80											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
611.60												
612.00												
612.40												
612.80												
613.20												
613.60												
614.00												
614.40												
614.80												
615.20												
615.60												

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
616.00										
616.40										
616.80										
617.20										
617.60										
618.00										
618.40										
618.80										
619.20										
619.60										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
620.00												
620.40												
620.80												
621.20												
621.60												
622.00												
622.40												
622.80												
623.20												
623.60												
624.00												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
624.40												
624.80												
625.20												
625.60												
626.00												
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Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
628.40												
628.80												
629.20												
629.60												
630.00												
630.40												
630.80												
631.20												
631.60												
632.00												
632.40												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
632.80												
633.20												
633.60												
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634.40												
634.80												
635.20												
635.60												
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Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
637.20											
637.60											
638.00											
638.40											
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639.20											
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640.40											
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Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
641.20												
641.60												
642.00												
642.40												
642.80												
643.20												
643.60												
644.00												
644.40												
644.80												
645.20												

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
645.60										
646.00										
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648.00										
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Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

650.00
650.40
650.80
651.20
651.60
652.00
652.40
652.80
653.20
653.60

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

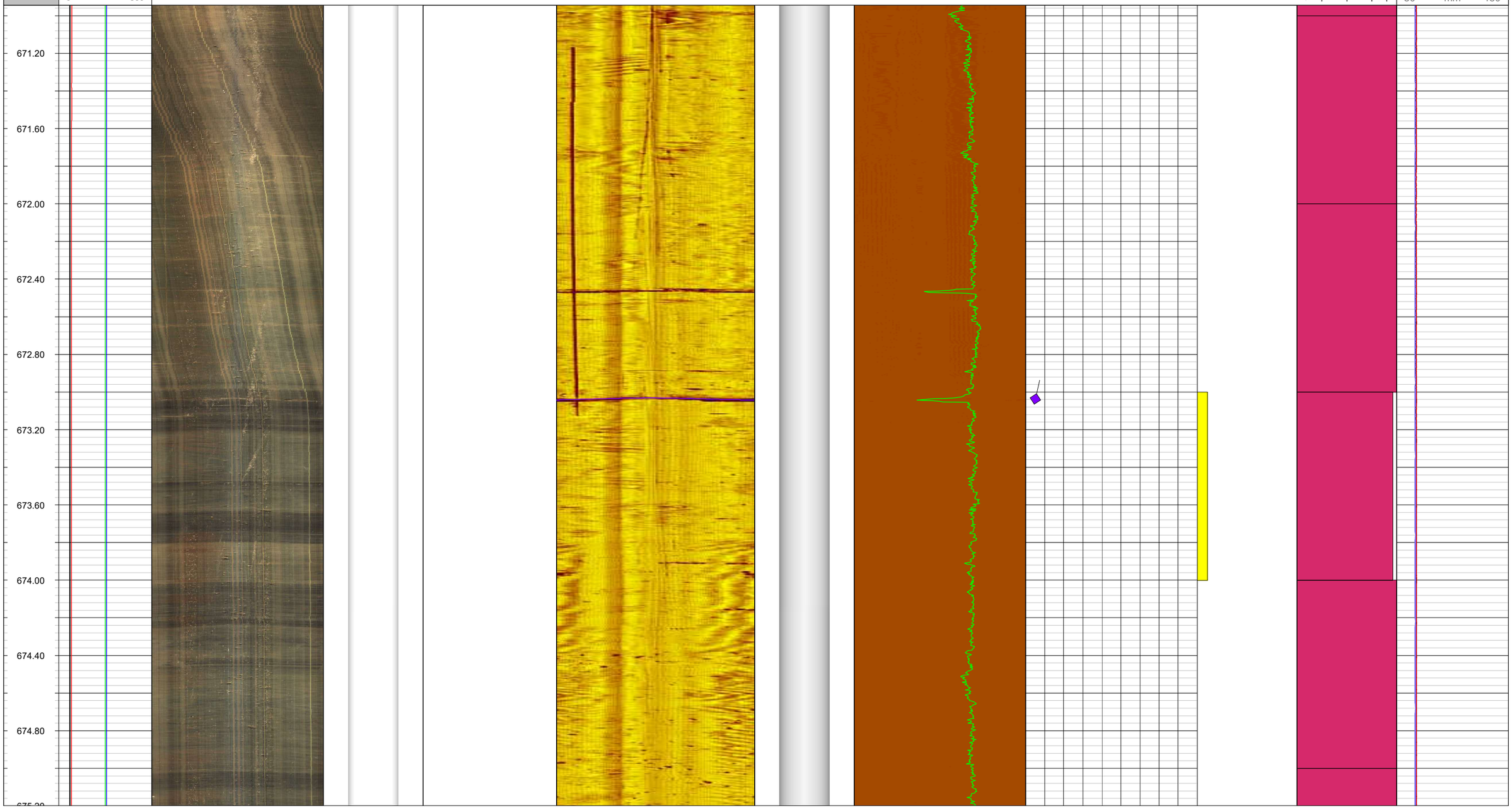
654.00
654.40
654.80
655.20
655.60
656.00
656.40
656.80
657.20
657.60
658.00

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
658.40										
658.80										
659.20										
659.60										
660.00										
660.40										
660.80										
661.20										
661.60										
662.00										
662.40										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
662.80												
663.20												
663.60												
664.00												
664.40												
664.80												
665.20												
665.60												
666.00												
666.40												

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
666.80											
667.20											
667.60											
668.00											
668.40											
668.80											
669.20											
669.60											
670.00											
670.40											
670.80											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
675.20												
675.60												
676.00												
676.40												
676.80												
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677.60												
678.00												
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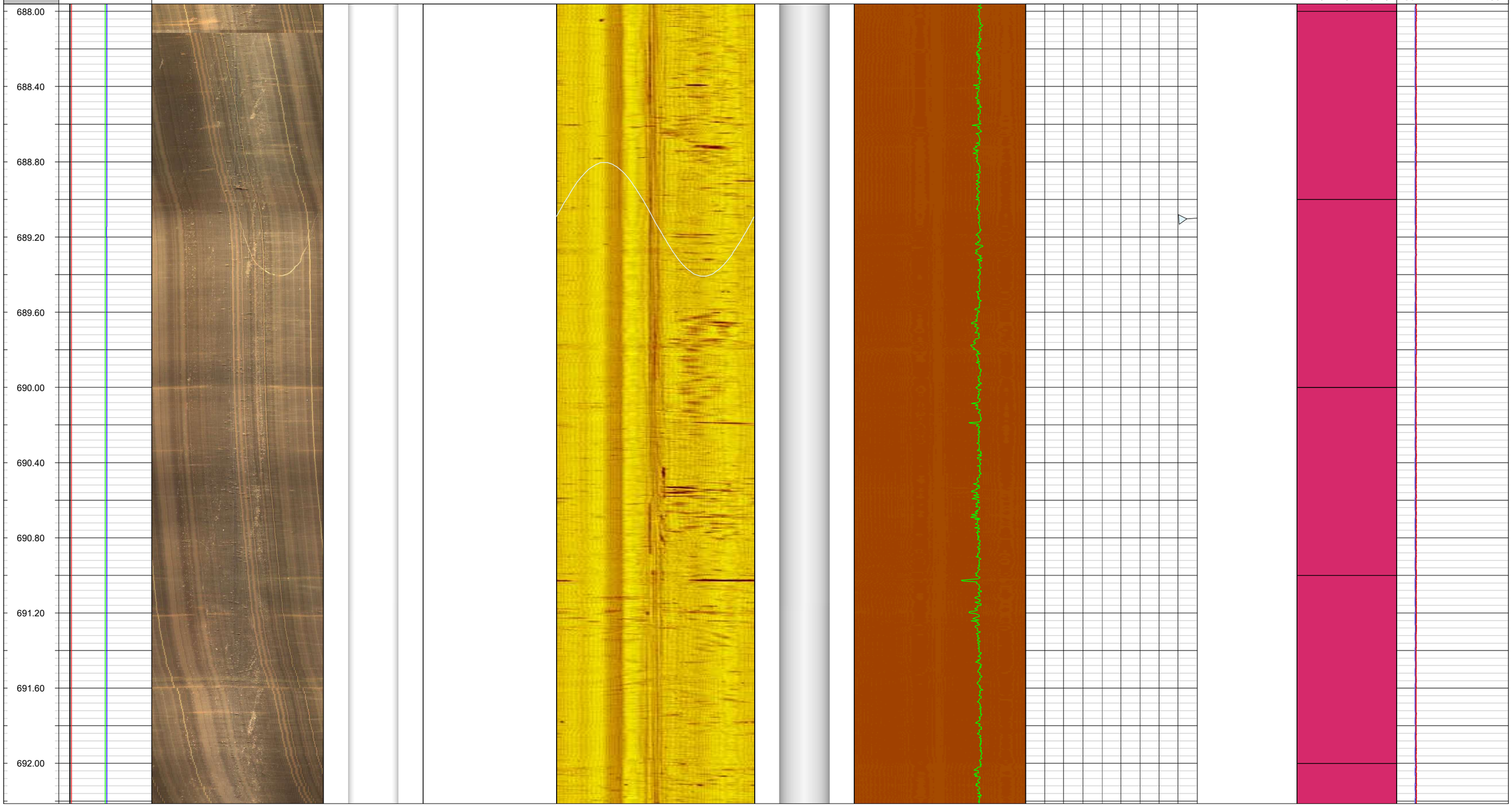
678.80												
679.20												

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
679.60											
680.00											
680.40											
680.80											
681.20											
681.60											
682.00											
682.40											
682.80											
683.20											
683.60											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
684.00												
684.40												
684.80												
685.20												
685.60												
686.00												
686.40												
686.80												
687.20												
687.60												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
692.40										
692.80										
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694.80										
695.20										
695.60										
696.00										
696.40										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
696.80												
697.20												
697.60												
698.00												
698.40												
698.80												
699.20												
699.60												
700.00												
700.40												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
700.80												
701.20												
701.60												
702.00												
702.40												
702.80												
703.20												
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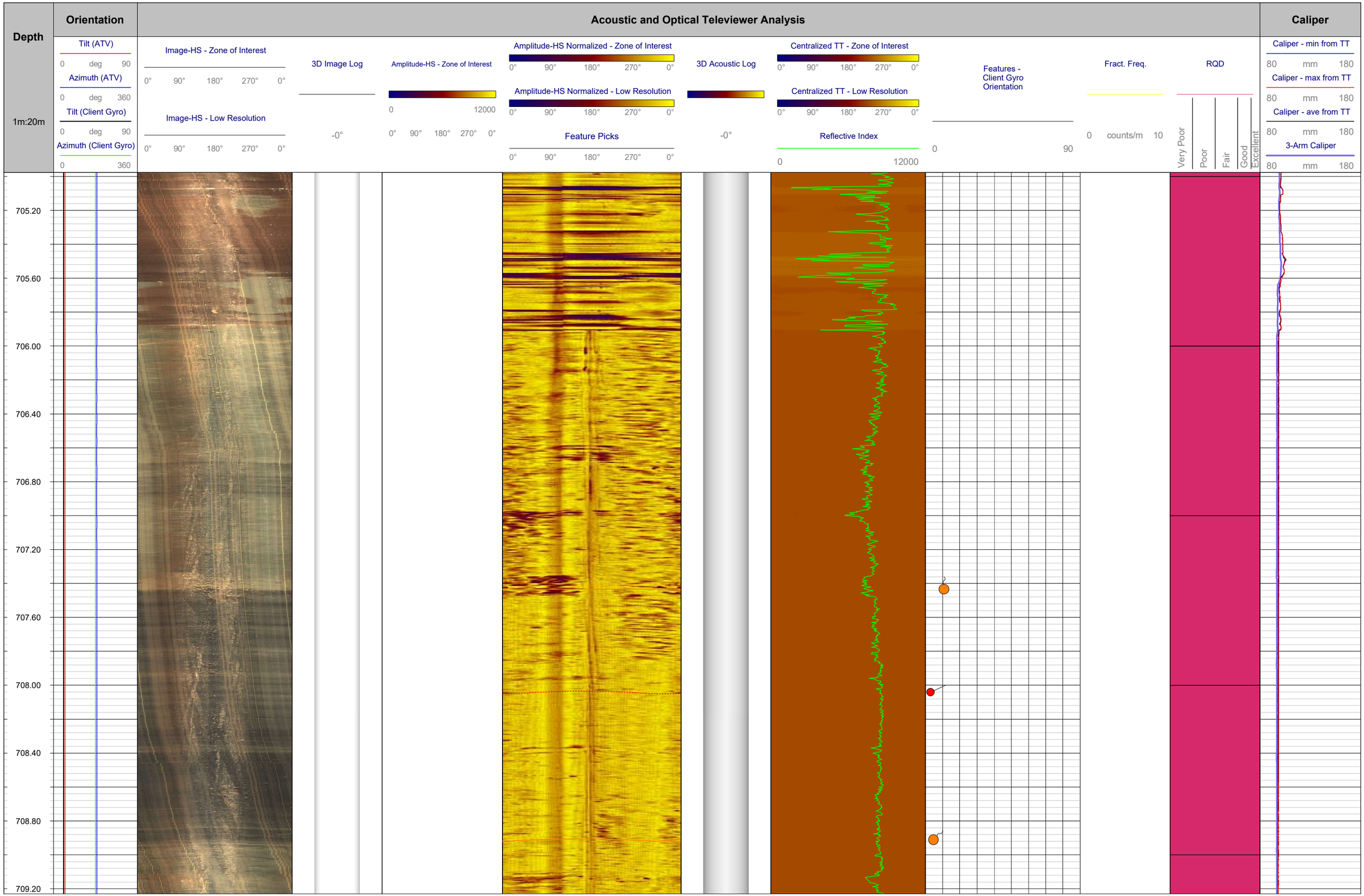
704.00												
704.40												
704.80												


Depth
1m:20m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
705.20
705.60
706.00
706.40
706.80
707.20
707.60
708.00
708.40
708.80
709.20

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
709.60										
710.00										
710.40										
710.80										
711.20										
711.60										
712.00										
712.40										
712.80										
713.20										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
713.60												
714.00												
714.40												
714.80												
715.20												
715.60												
716.00												
716.40												
716.80												
717.20												
717.60												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
718.00 718.40 718.80 719.20 719.60 720.00 720.40 720.80 721.20 721.60												

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
722.00											
722.40											
722.80											
723.20											
723.60											
724.00											
724.40											
724.80											
725.20											
725.60											
726.00											

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
726.40											
726.80											
727.20											
727.60											
728.00											
728.40											
728.80											
729.20											
729.60											
730.00											
730.40											

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
730.80										
731.20										
731.60										
732.00										
732.40										
732.80										
733.20										
733.60										
734.00										
734.40										

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
734.80										
735.20										
735.60										
736.00										
736.40										
736.80										
737.20										
737.60										
738.00										
738.40										
738.80										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
739.20											
739.60											
740.00											
740.40											
740.80											
741.20											
741.60											
742.00											
742.40											
742.80											
743.20											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
743.60											
744.00											
744.40											
744.80											
745.20											
745.60											
746.00											
746.40											
746.80											
747.20											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
747.60												
748.00												
748.40												
748.80												
749.20												
749.60												
750.00												
750.40												
750.80												
751.20												
751.60												

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
752.00										
752.40										
752.80										
753.20										
753.60										
754.00										
754.40										
754.80										
755.20										
755.60										
756.00										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
756.40												
756.80												
757.20												
757.60												
758.00												
758.40												
758.80												
759.20												
759.60												
760.00												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

760.40
760.80
761.20
761.60
762.00
762.40
762.80
763.20
763.60
764.00
764.40

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
764.80										
765.20										
765.60										
766.00										
766.40										
766.80										
767.20										
767.60										
768.00										
768.40										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
768.80 769.20 769.60 770.00 770.40 770.80 771.20 771.60 772.00 772.40 772.80												

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
773.20 773.60 774.00 774.40 774.80 775.20 775.60 776.00 776.40 776.80 777.20										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
777.60												
778.00												
778.40												
778.80												
779.20												
779.60												
780.00												
780.40												
780.80												
781.20												

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
781.60										
782.00										
782.40										
782.80										
783.20										
783.60										
784.00										
784.40										
784.80										
785.20										
785.60										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
786.00												
786.40												
786.80												
787.20												
787.60												
788.00												
788.40												
788.80												
789.20												
789.60												
790.00												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
790.40												
790.80												
791.20												
791.60												
792.00												
792.40												
792.80												
793.20												
793.60												
794.00												

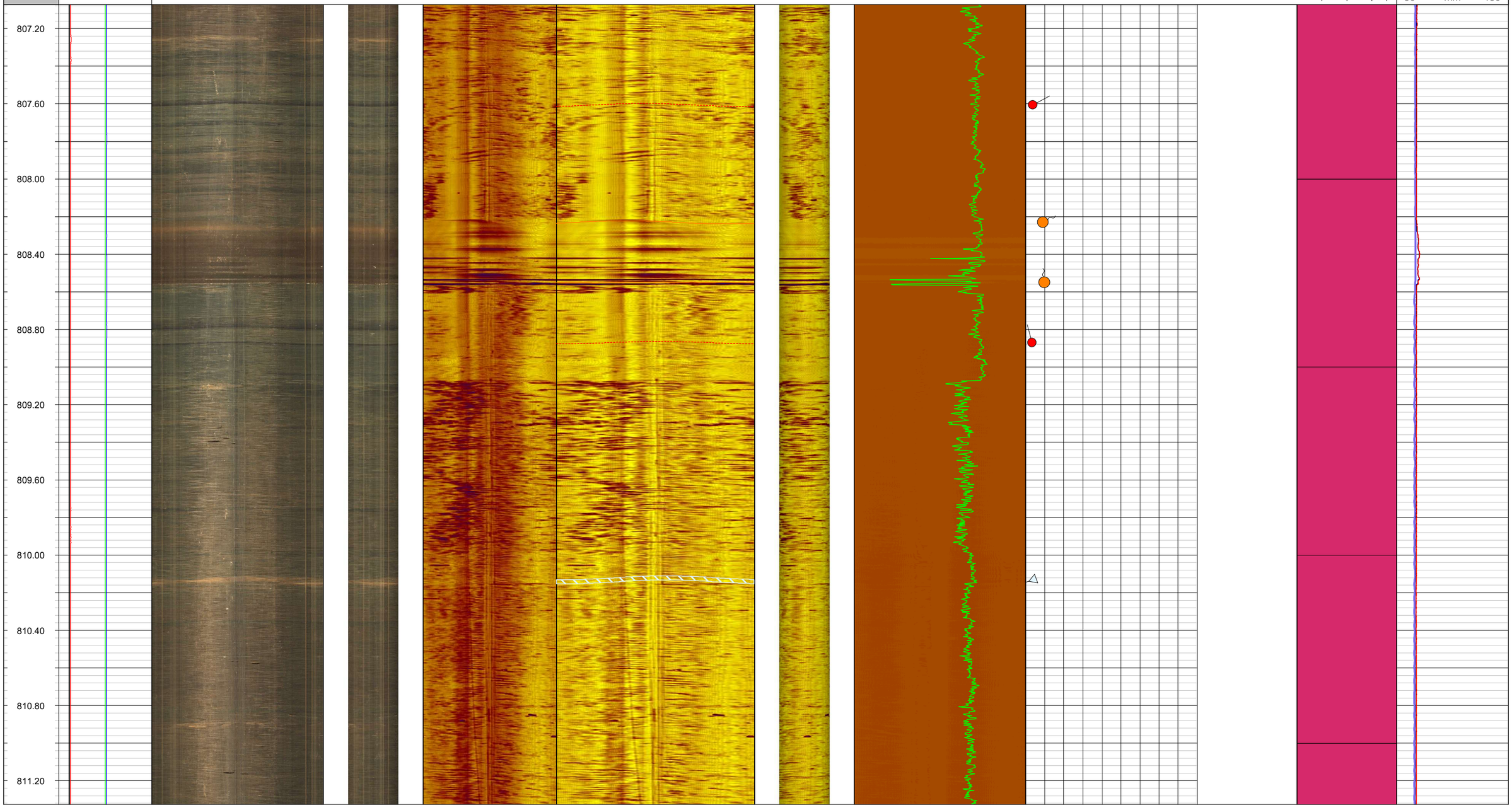
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
794.40												
794.80												
795.20												
795.60												
796.00												
796.40												
796.80												
797.20												
797.60												
798.00												
798.40												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
798.80												
799.20												
799.60												
800.00												
800.40												
800.80												
801.20												
801.60												
802.00												
802.40												
802.80												

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

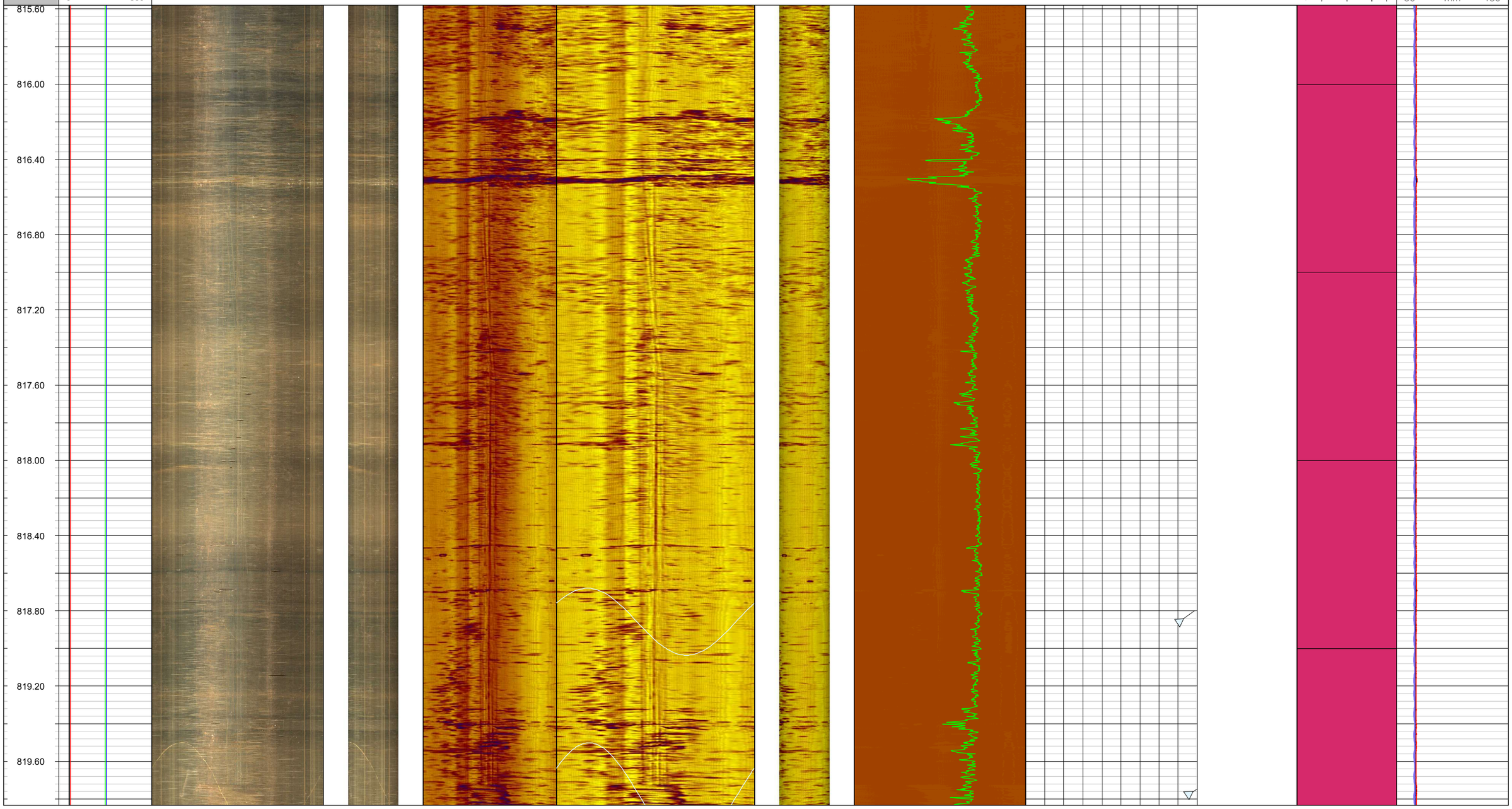
803.20
803.60
804.00
804.40
804.80
805.20
805.60
806.00
806.40
806.80

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
811.60											
812.00											
812.40											
812.80											
813.20											
813.60											
814.00											
814.40											
814.80											
815.20											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180



Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180

820.00
820.40
820.80
821.20
821.60
822.00
822.40
822.80
823.20
823.60
824.00

Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
824.40										
824.80										
825.20										
825.60										
826.00										
826.40										
826.80										
827.20										
827.60										
828.00										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
828.40												
828.80												
829.20												
829.60												
830.00												
830.40												
830.80												
831.20												
831.60												
832.00												
832.40												

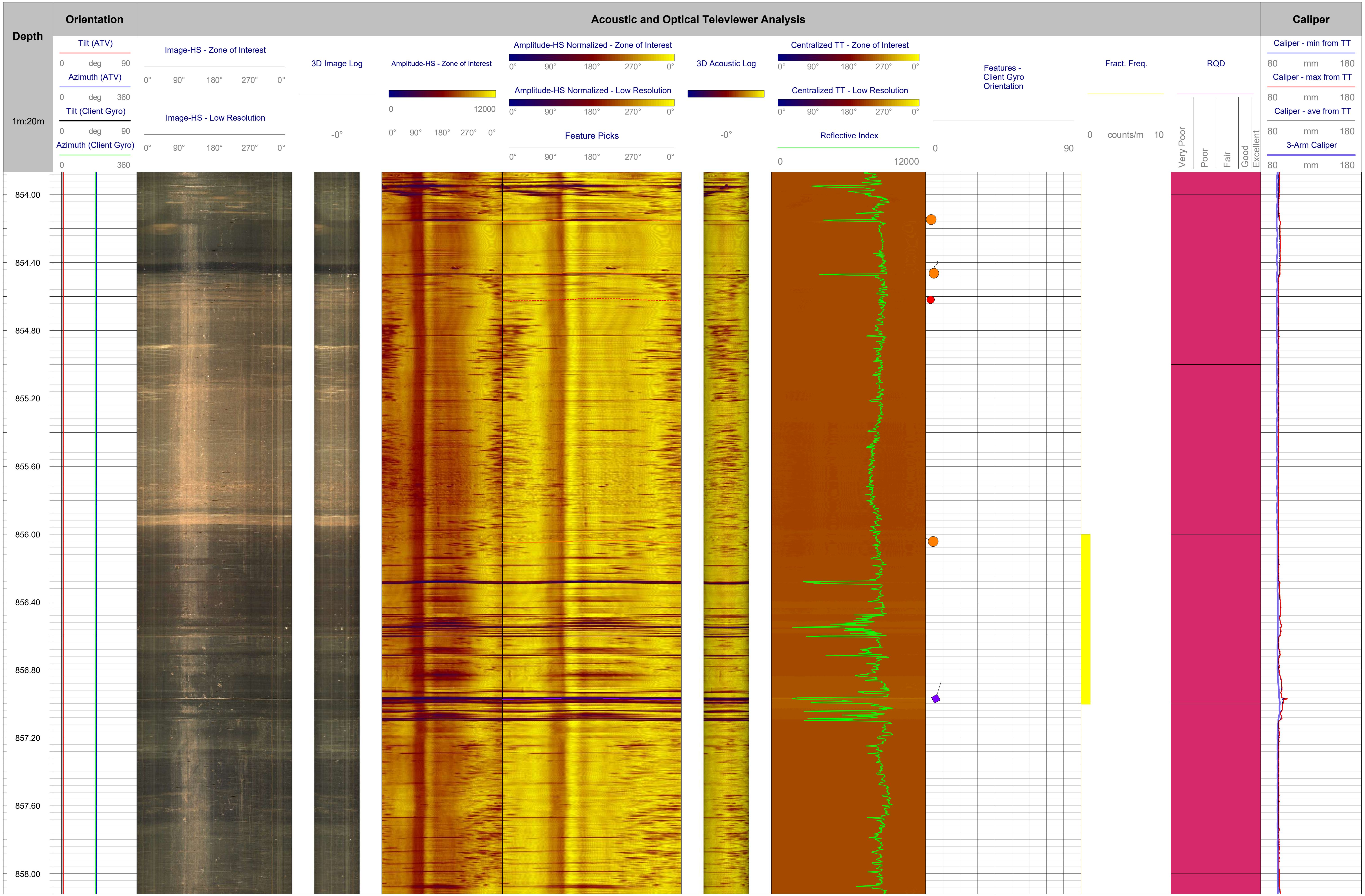
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
832.80												
833.20												
833.60												
834.00												
834.40												
834.80												
835.20												
835.60												
836.00												
836.40												
836.80												

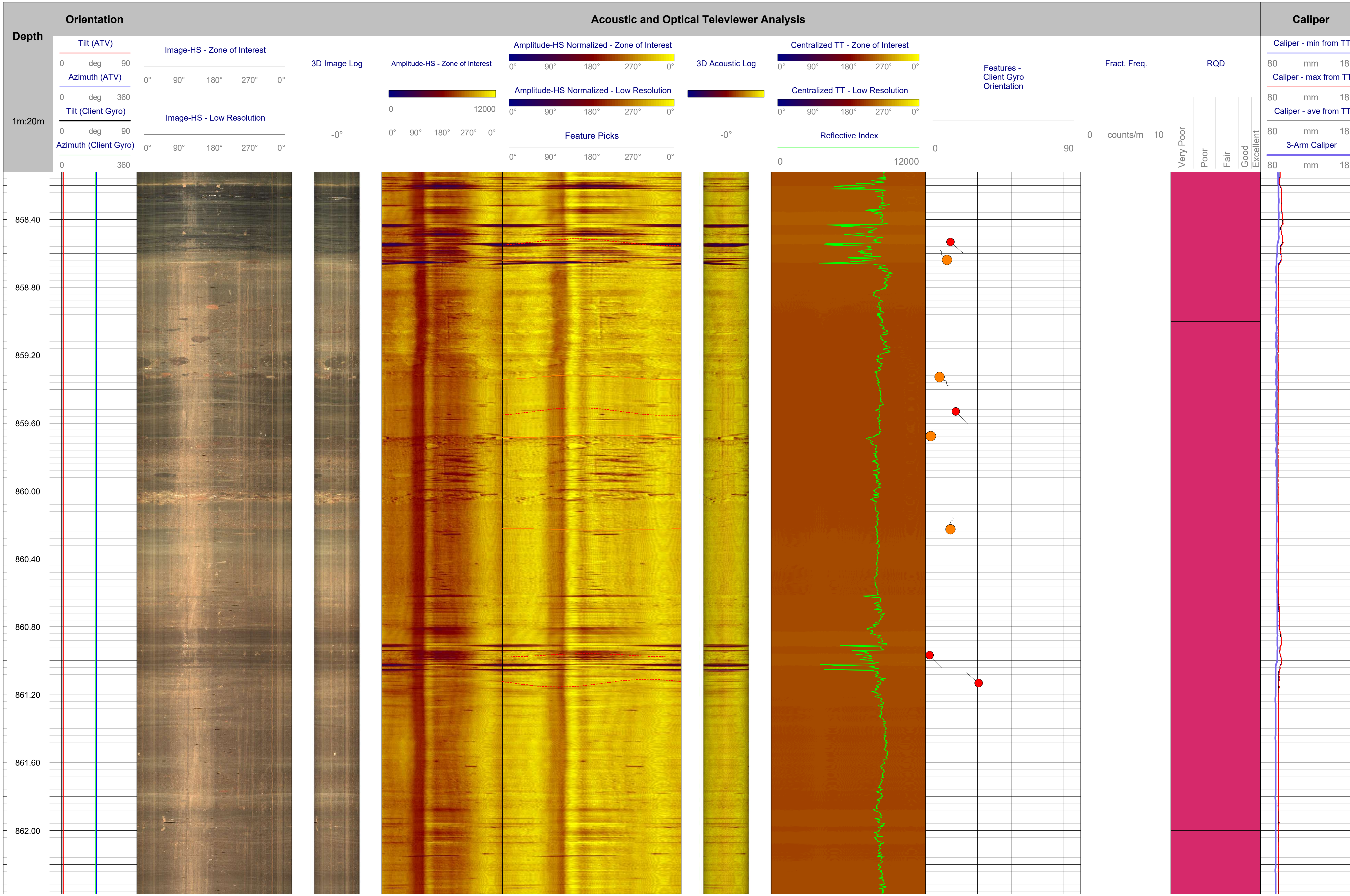
Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
837.20											
837.60											
838.00											
838.40											
838.80											
839.20											
839.60											
840.00											
840.40											
840.80											

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
841.20												
841.60												
842.00												
842.40												
842.80												
843.20												
843.60												
844.00												
844.40												
844.80												
845.20												

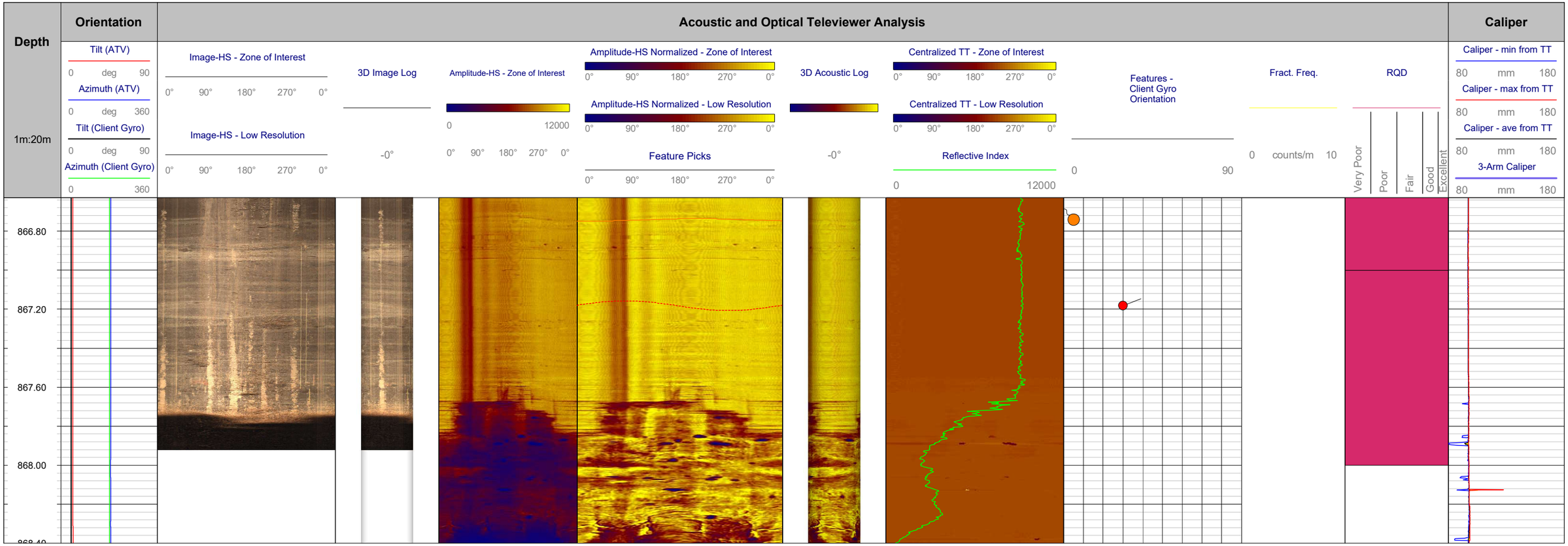
Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
845.60										
846.00										
846.40										
846.80										
847.20										
847.60										
848.00										
848.40										
848.80										
849.20										
849.60										

Depth	Orientation	Acoustic and Optical Televiewer Analysis										Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
850.00												
850.40												
850.80												
851.20												
851.60												
852.00												
852.40												
852.80												
853.20												
853.60												


Depth
1m:20m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
854.00
854.40
854.80
855.20
855.60
856.00
856.40
856.80
857.20
857.60
858.00


Depth
1m:20m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
858.40
858.80
859.20
859.60
860.00
860.40
860.80
861.20
861.60
862.00

Depth	Orientation	Acoustic and Optical Televiewer Analysis									Caliper
1m:20m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (Client Gyro) 0 deg 90 Azimuth (Client Gyro) 0 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0 12000 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0° 90° 180° 270° 0° Feature Picks 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest 0° 90° 180° 270° 0° Centralized TT - Low Resolution 0° 90° 180° 270° 0° Reflective Index 0 12000	Features - Client Gyro Orientation 0 90	Fract. Freq. 0 counts/m 10	RQD Very Poor Poor Fair Good Excellent	Caliper - min from TT 80 mm 180 Caliper - max from TT 80 mm 180 Caliper - ave from TT 80 mm 180 3-Arm Caliper 80 mm 180
862.40											
862.80											
863.20											
863.60											
864.00											
864.40											
864.80											
865.20											
865.60											
866.00											
866.40											


Depth
Orientation
Acoustic and Optical Televiewer Analysis
Caliper
1m:20m
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (Client Gyro)
0 deg 90
Azimuth (Client Gyro)
0 360
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0 12000
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0° 90° 180° 270° 0°
Feature Picks
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
0° 90° 180° 270° 0°
Centralized TT - Low Resolution
0° 90° 180° 270° 0°
Reflective Index
0 12000
Features - Client Gyro Orientation
0 90
Fract. Freq.
0 counts/m 10
RQD
Very Poor
Poor
Fair
Good
Excellent
Caliper - min from TT
80 mm 180
Caliper - max from TT
80 mm 180
Caliper - ave from TT
80 mm 180
3-Arm Caliper
80 mm 180
866.80
867.20
867.60
868.00

Acoustic and Optical Televiewer Draft Plot

DGI GEOSCIENCE

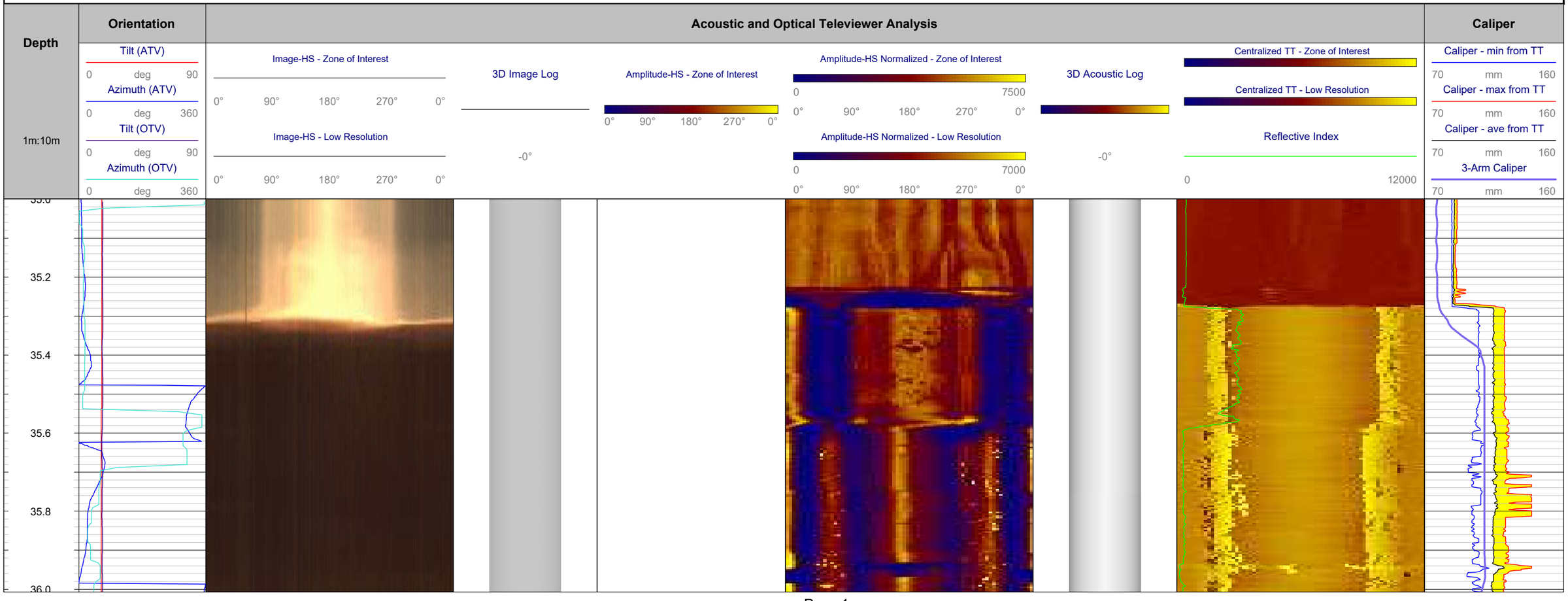
Company:	White Pine	**Total Depth:**	1010.00 m	**UTM X (Easting):**	---
Project:	White Pine	**Surveyed Depth:**	1008.15 m	**UTM Y (Northing):**	---
Hole ID:	WP588	**Hole Diameter:**	96.00 mm	**UTM Z (Elevation):**	---
Acquisition date(s):	Jun 24, 2024	**Bit Size:**	HQ	**Location:**	White Pine, Michigan
Field Personnel:	Z. Roselle; C. Lee	**Hole Type:**	Diamond		
Data Analysts:	G. Garcia Lamberg	**Casing Depth:**	35.30 m		
Survey Day(s):	1	**Fluid Level:**	---		

Probes:

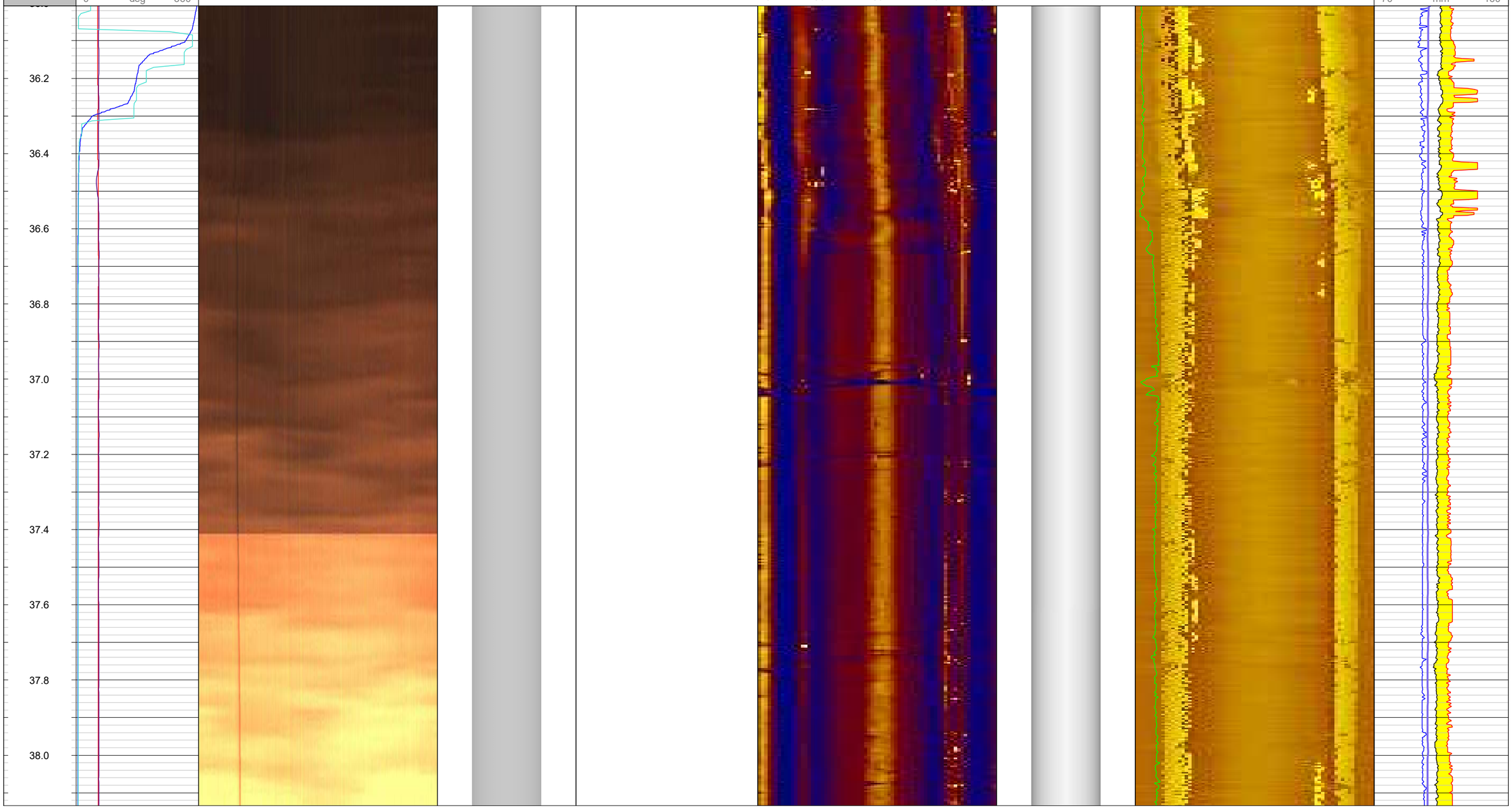
Manufacturer	Model	Serial
M. Sopris	2CAA 3-Arm Caliper	4262
ALT	QL ABI2G Acoustic Televiewer	212010
ALT	QL40 OBI 2G	212101

Notes:

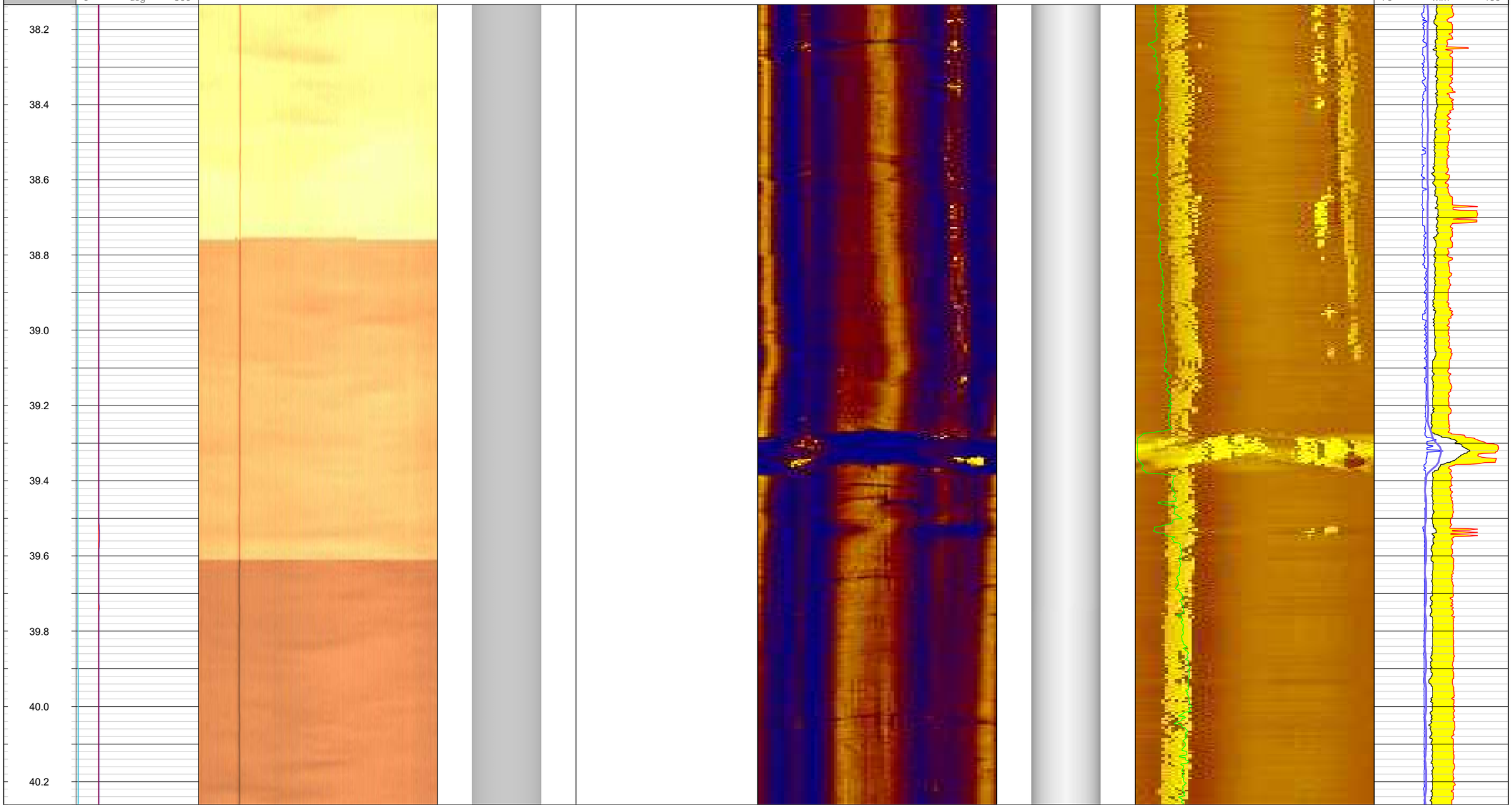
Murky water causes poor visibility in the OTV image from the top of the hole until 650 m.
Zone of interest (930 – 1008 m) surveyed with a lower increment.
3-arm caliper depth matched to televiewer's synthetic caliper.



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

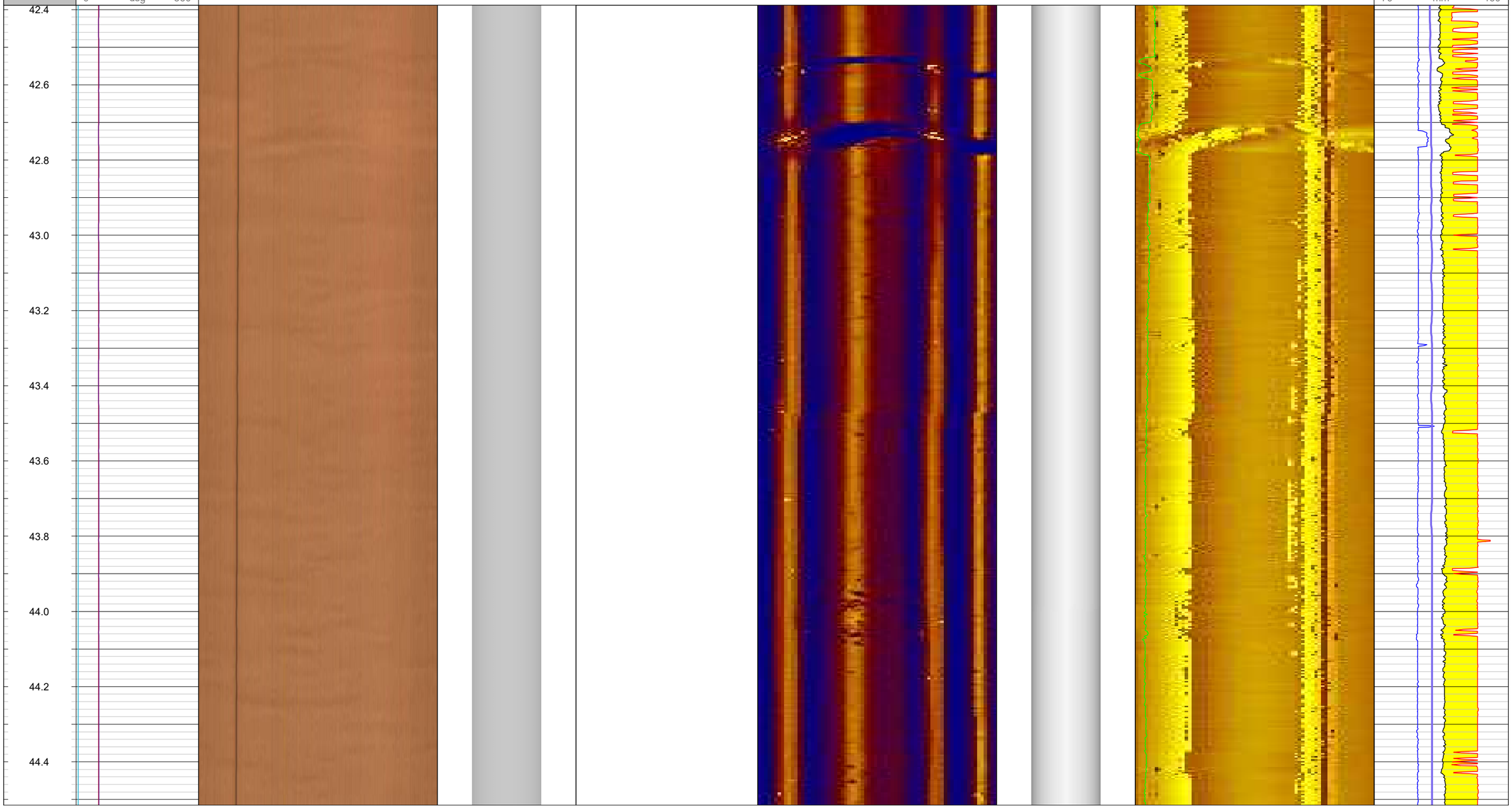


Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
40.4									
40.6									
40.8									
41.0									
41.2									
41.4									
41.6									
41.8									
42.0									
42.2									

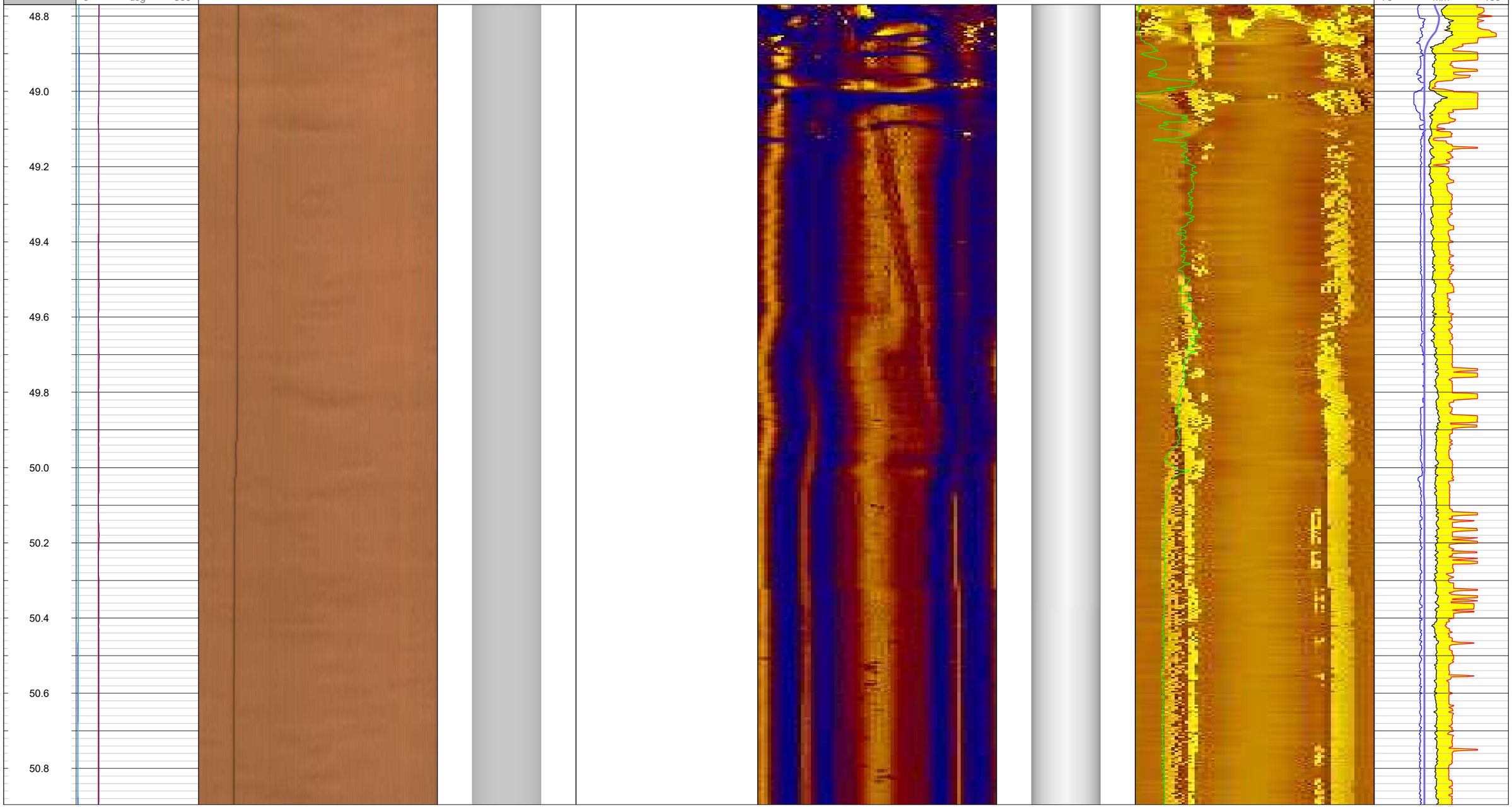
Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
44.6								
44.8								
45.0								
45.2								
45.4								
45.6								
45.8								
46.0								
46.2								
46.4								
46.6								

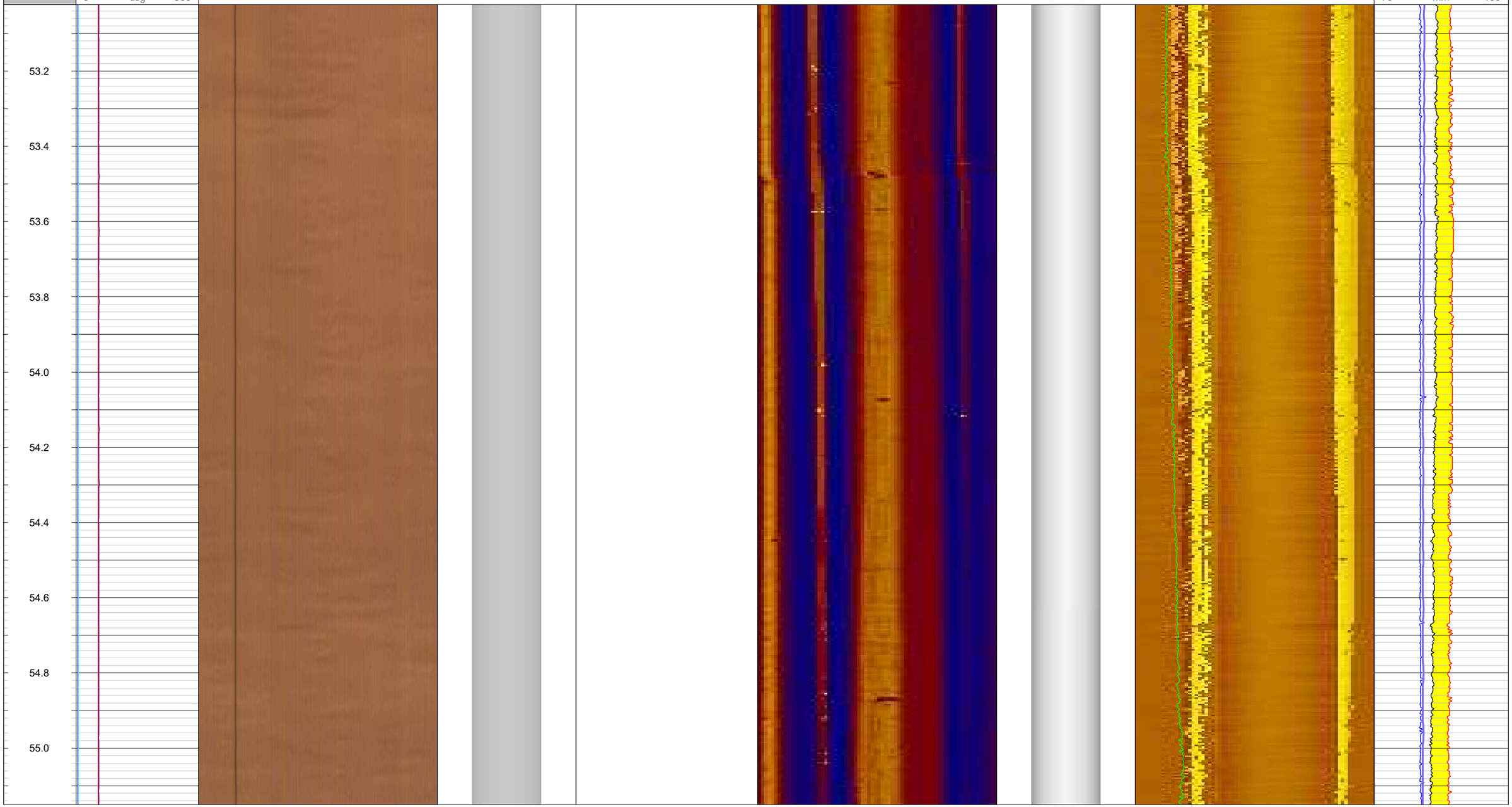
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
46.8								
47.0								
47.2								
47.4								
47.6								
47.8								
48.0								
48.2								
48.4								
48.6								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



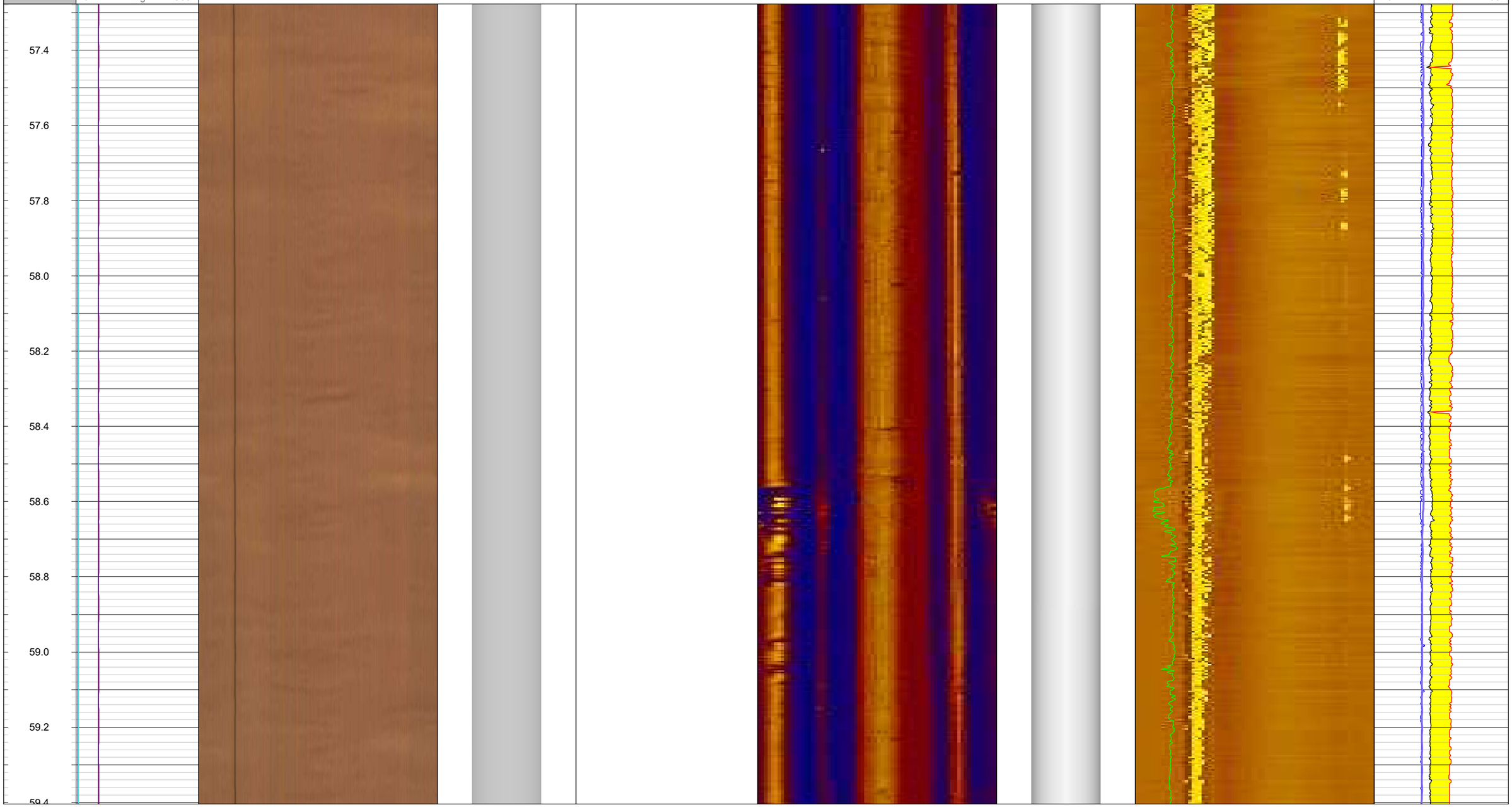
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
51.0								
51.2								
51.4								
51.6								
51.8								
52.0								
52.2								
52.4								
52.6								
52.8								
53.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

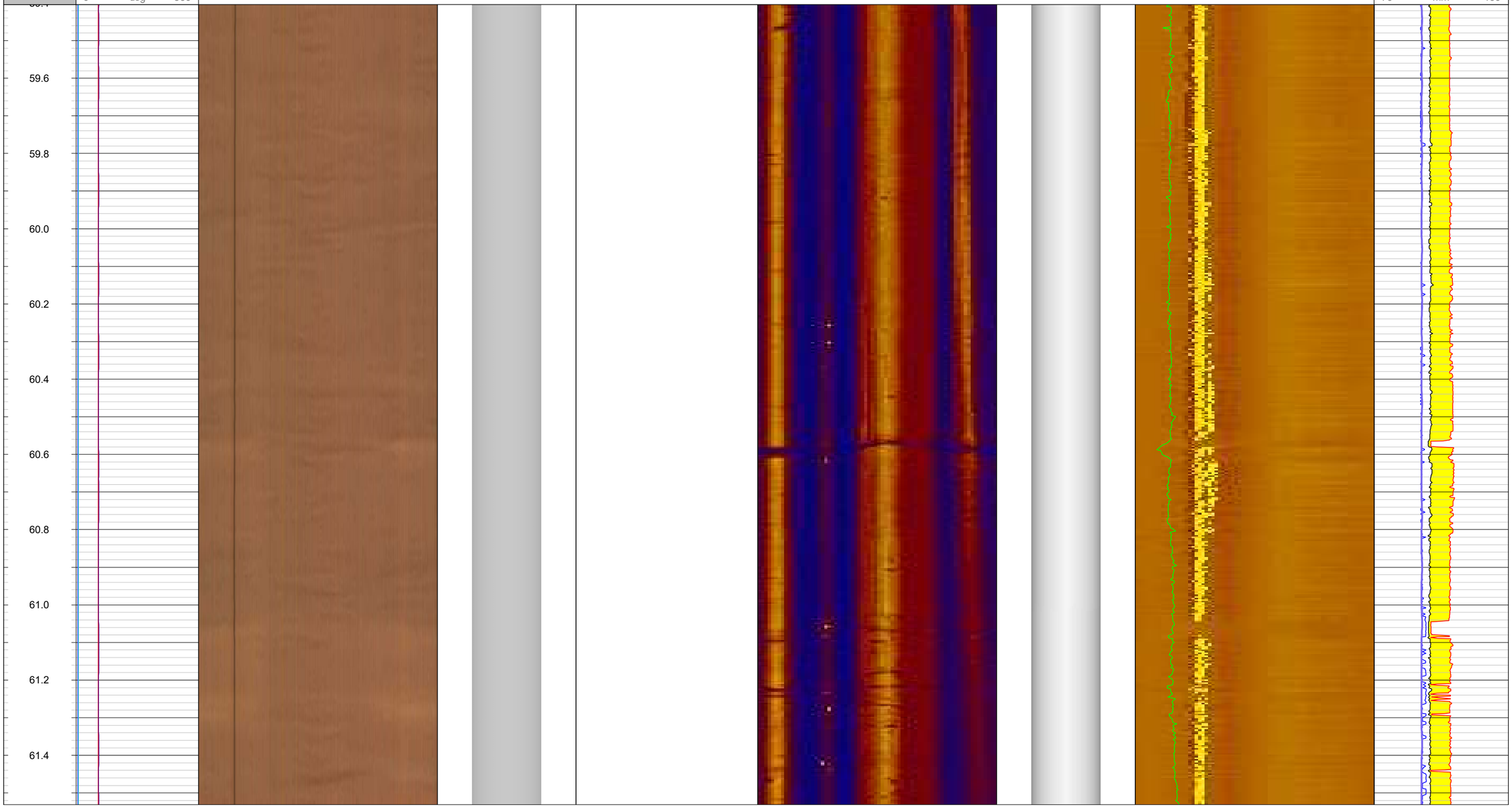


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
55.2								
55.4								
55.6								
55.8								
56.0								
56.2								
56.4								
56.6								
56.8								
57.0								
57.2								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

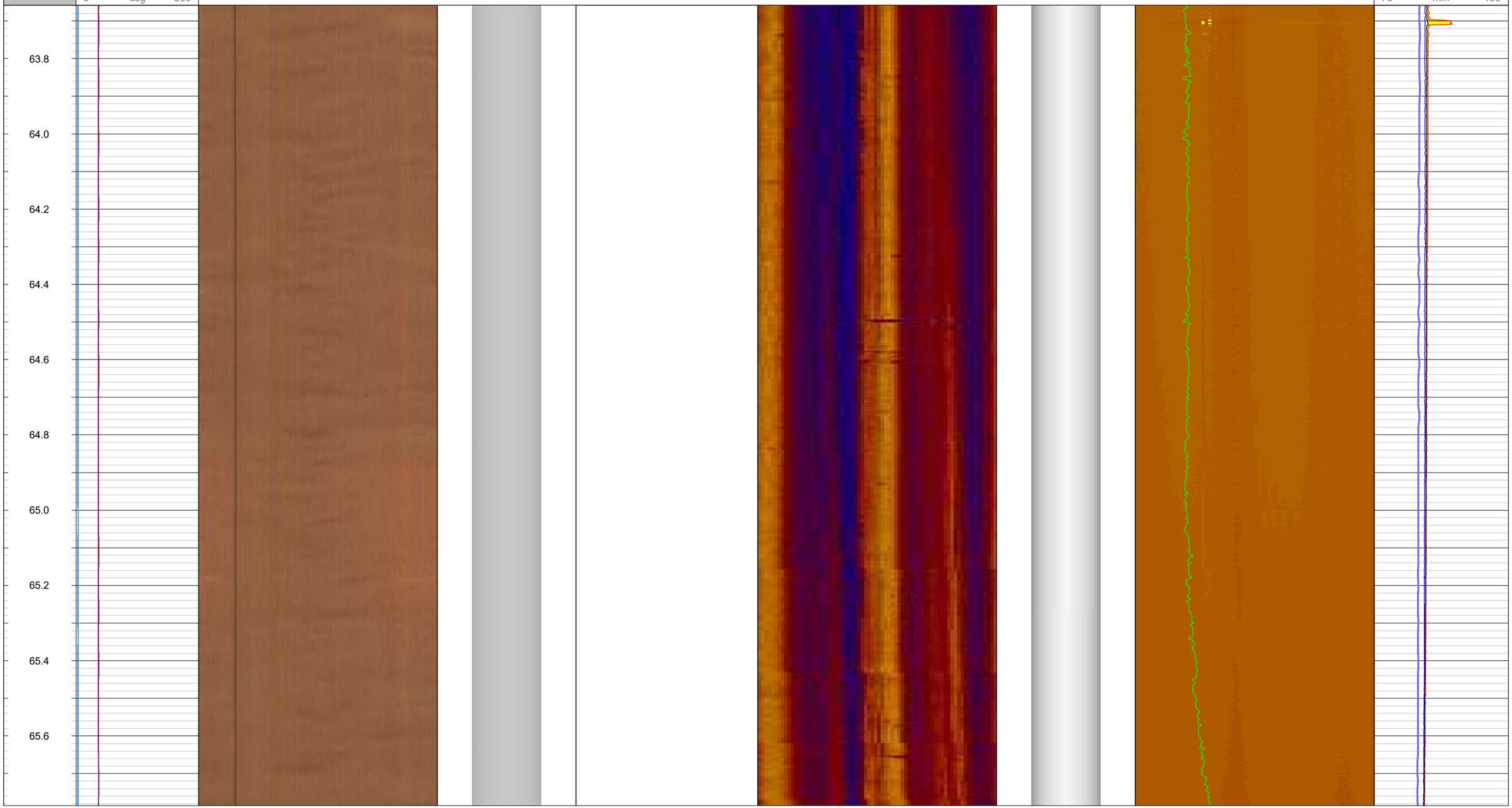


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



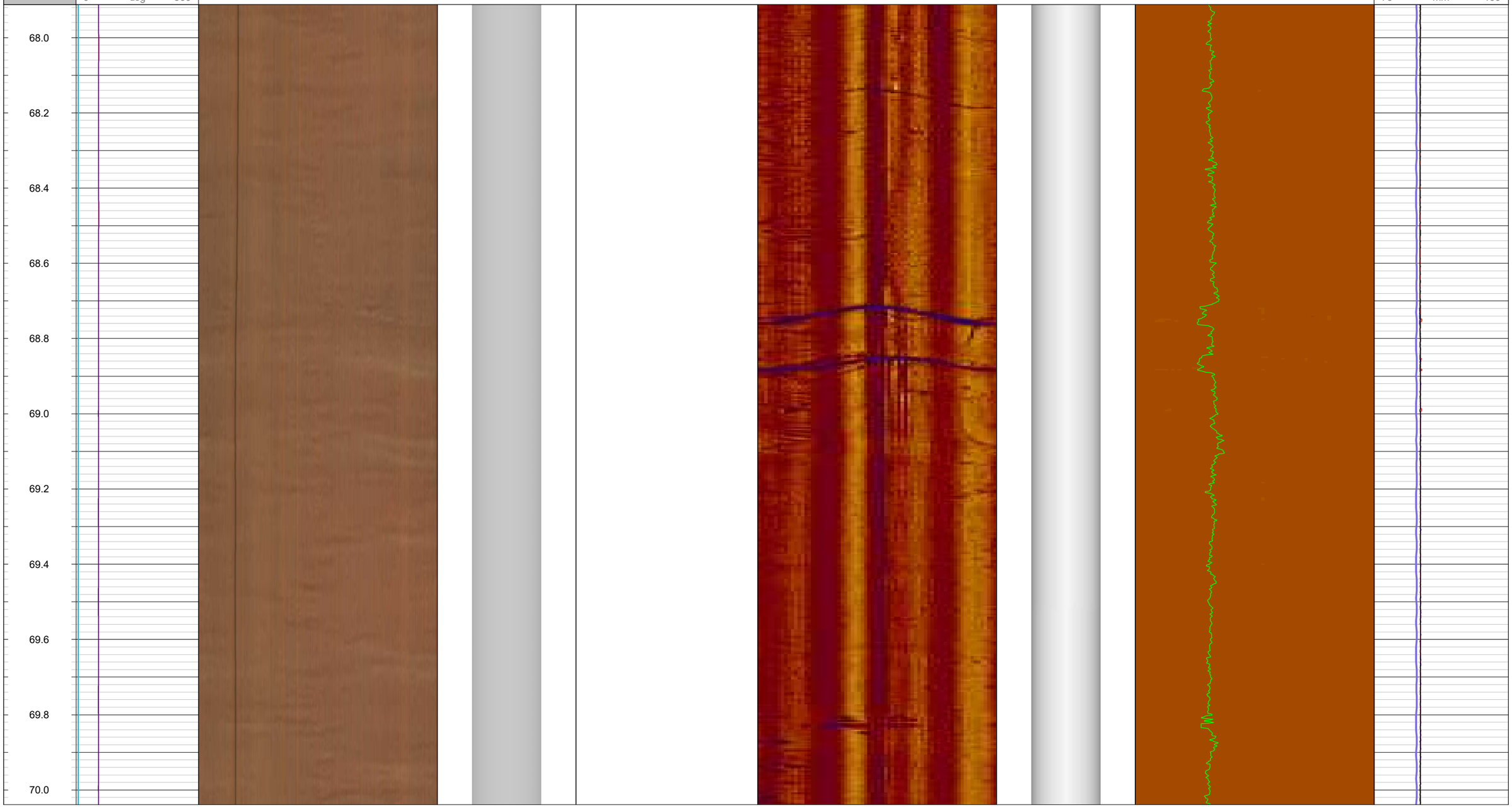
Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
1m:10m									
61.6									
61.8									
62.0									
62.2									
62.4									
62.6									
62.8									
63.0									
63.2									
63.4									
63.6									

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
65.8								
66.0								
66.2								
66.4								
66.6								
66.8								
67.0								
67.2								
67.4								
67.6								
67.8								

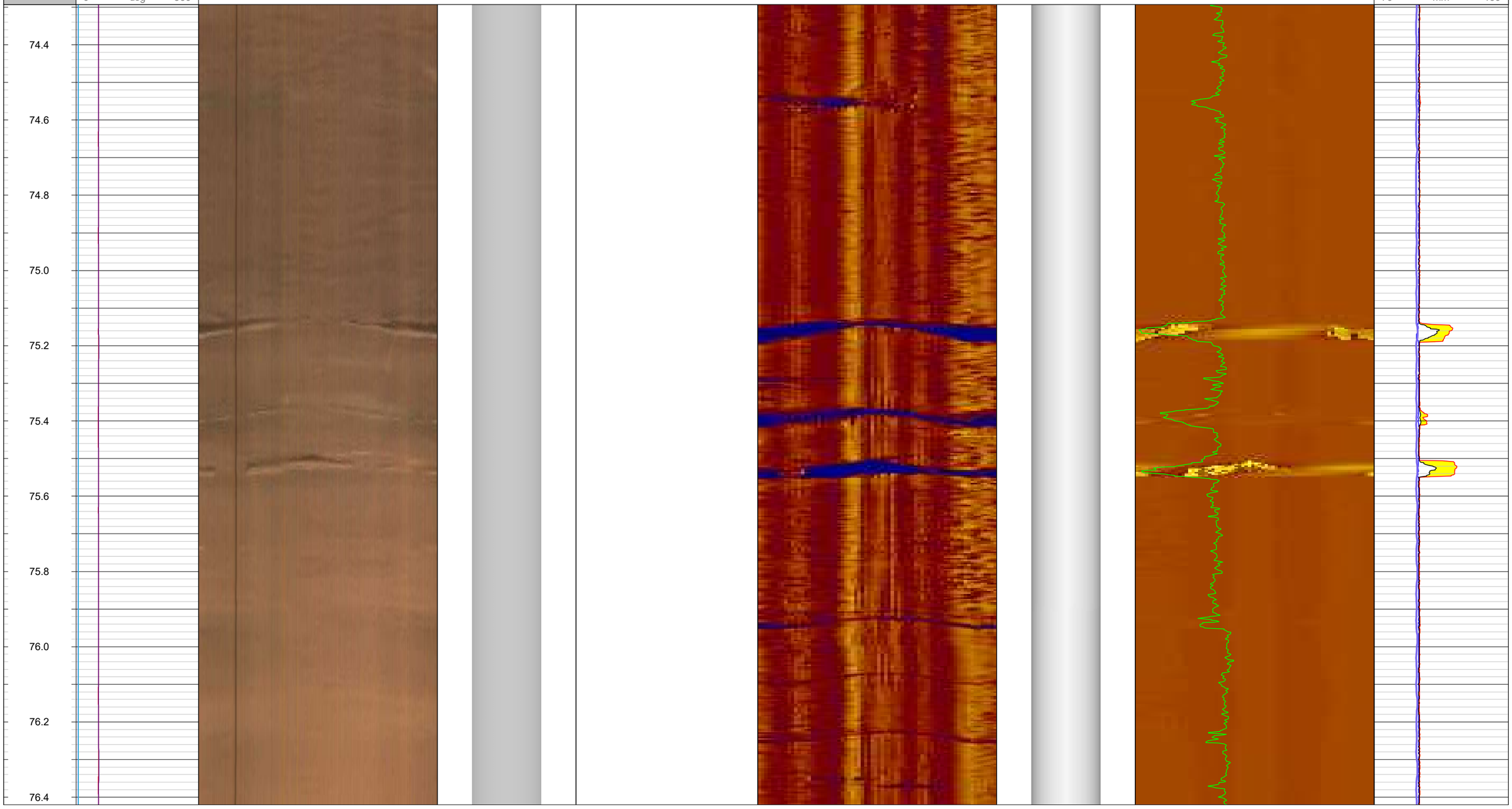
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



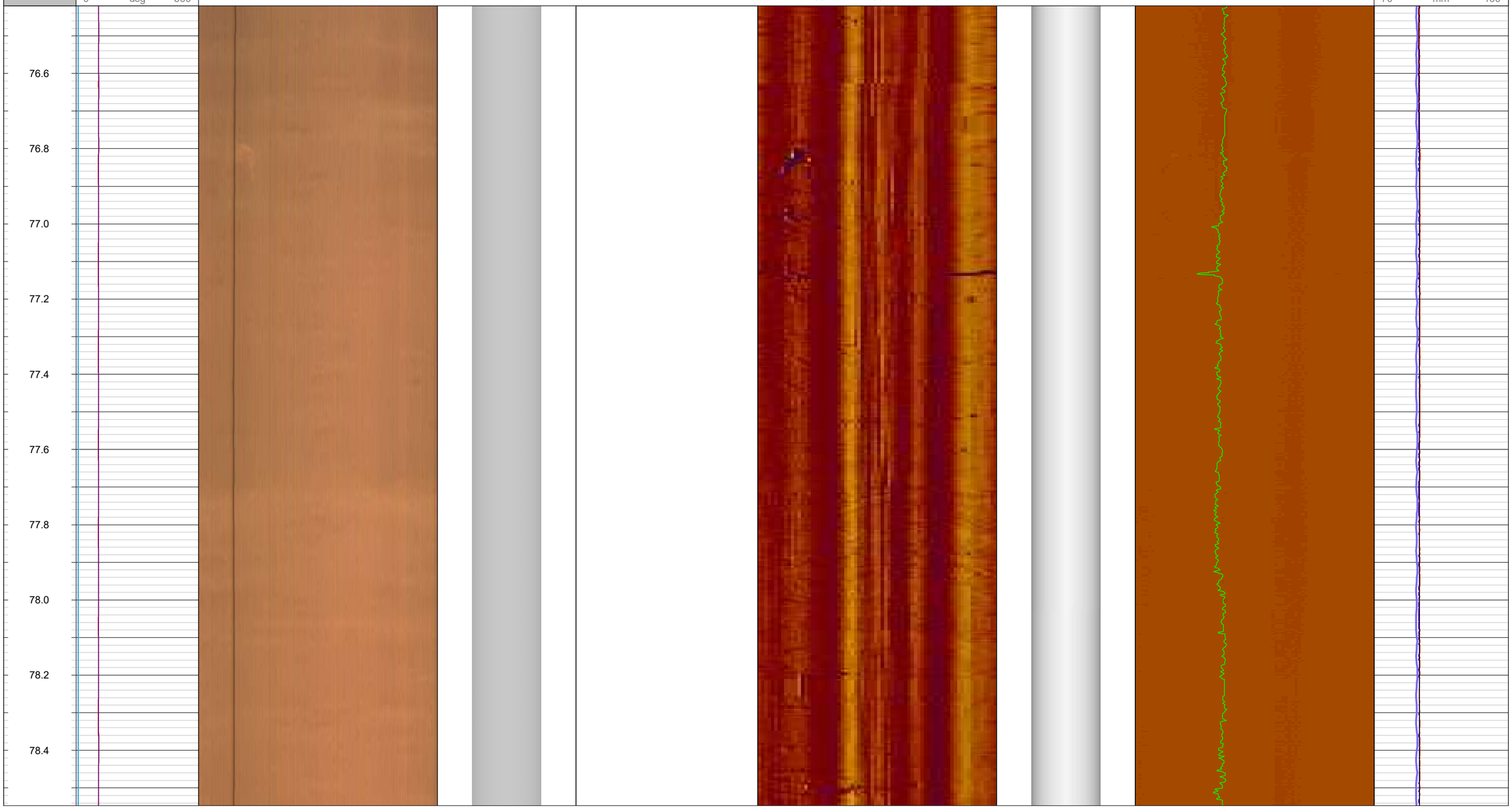
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
70.2								
70.4								
70.6								
70.8								
71.0								
71.2								
71.4								
71.6								
71.8								
72.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
72.2								
72.4								
72.6								
72.8								
73.0								
73.2								
73.4								
73.6								
73.8								
74.0								
74.2								

Depth	Orientation	Acoustic and Optical Televiewer Analysis					Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

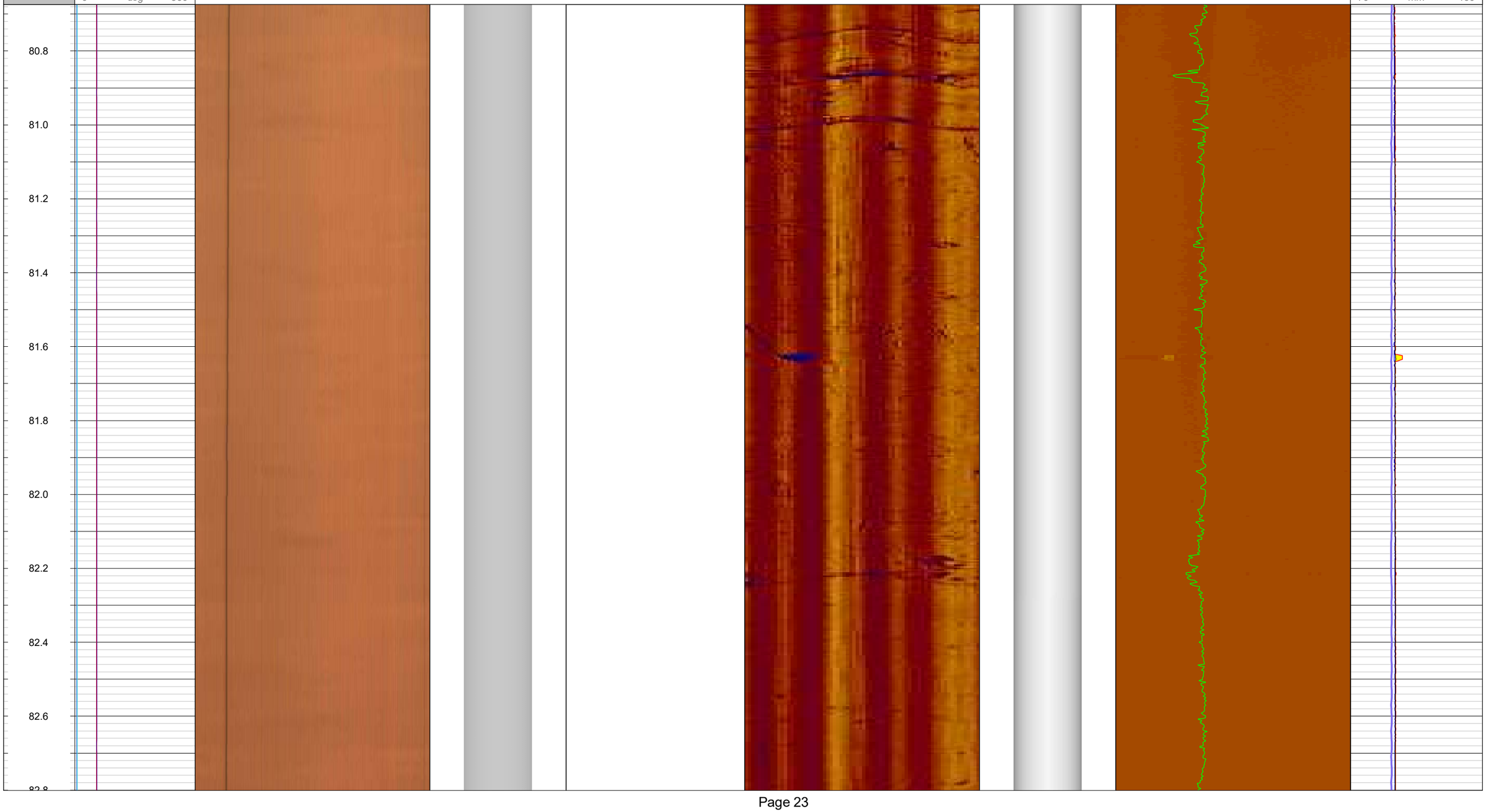


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

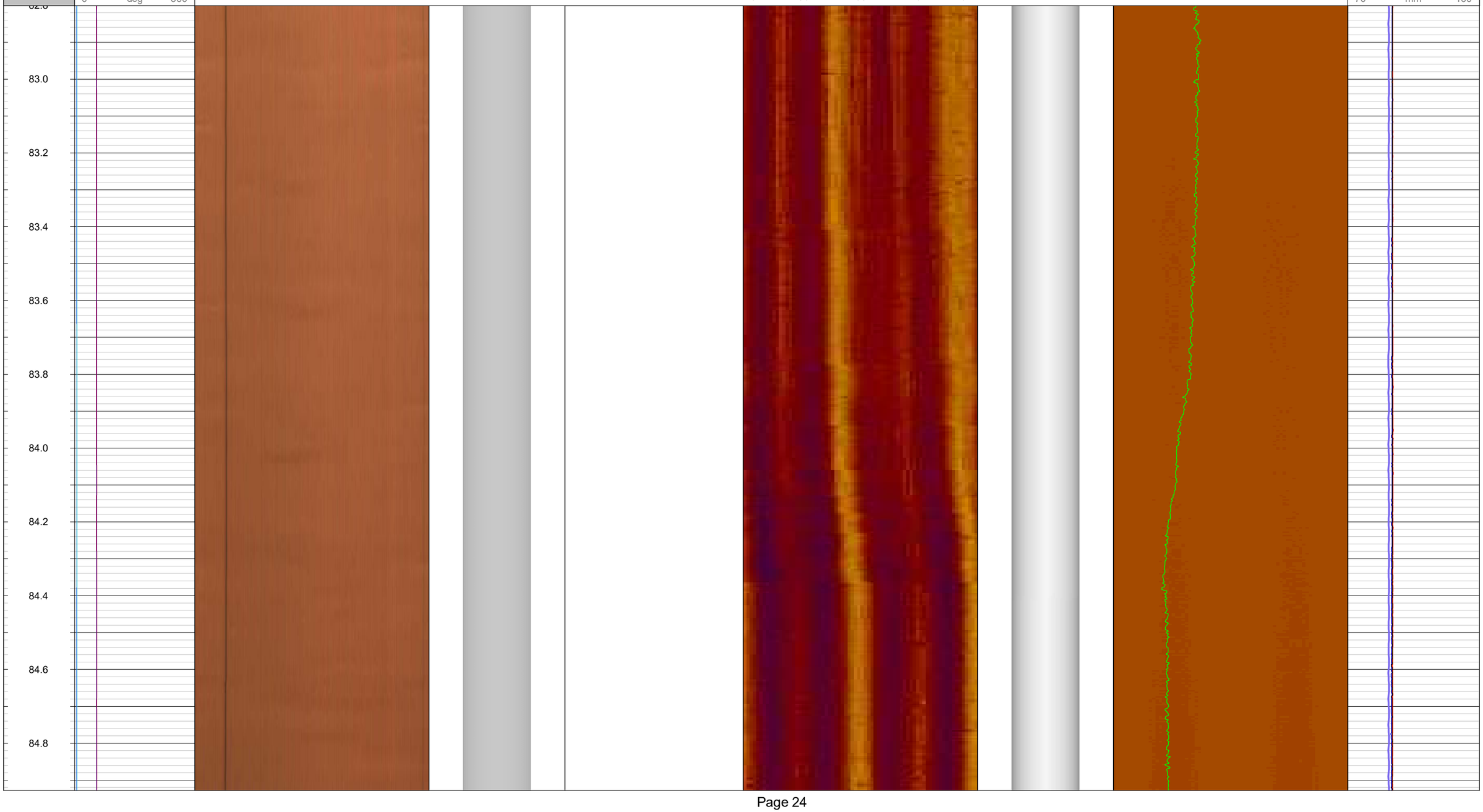


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
78.6								
78.8								
79.0								
79.2								
79.4								
79.6								
79.8								
80.0								
80.2								
80.4								
80.6								

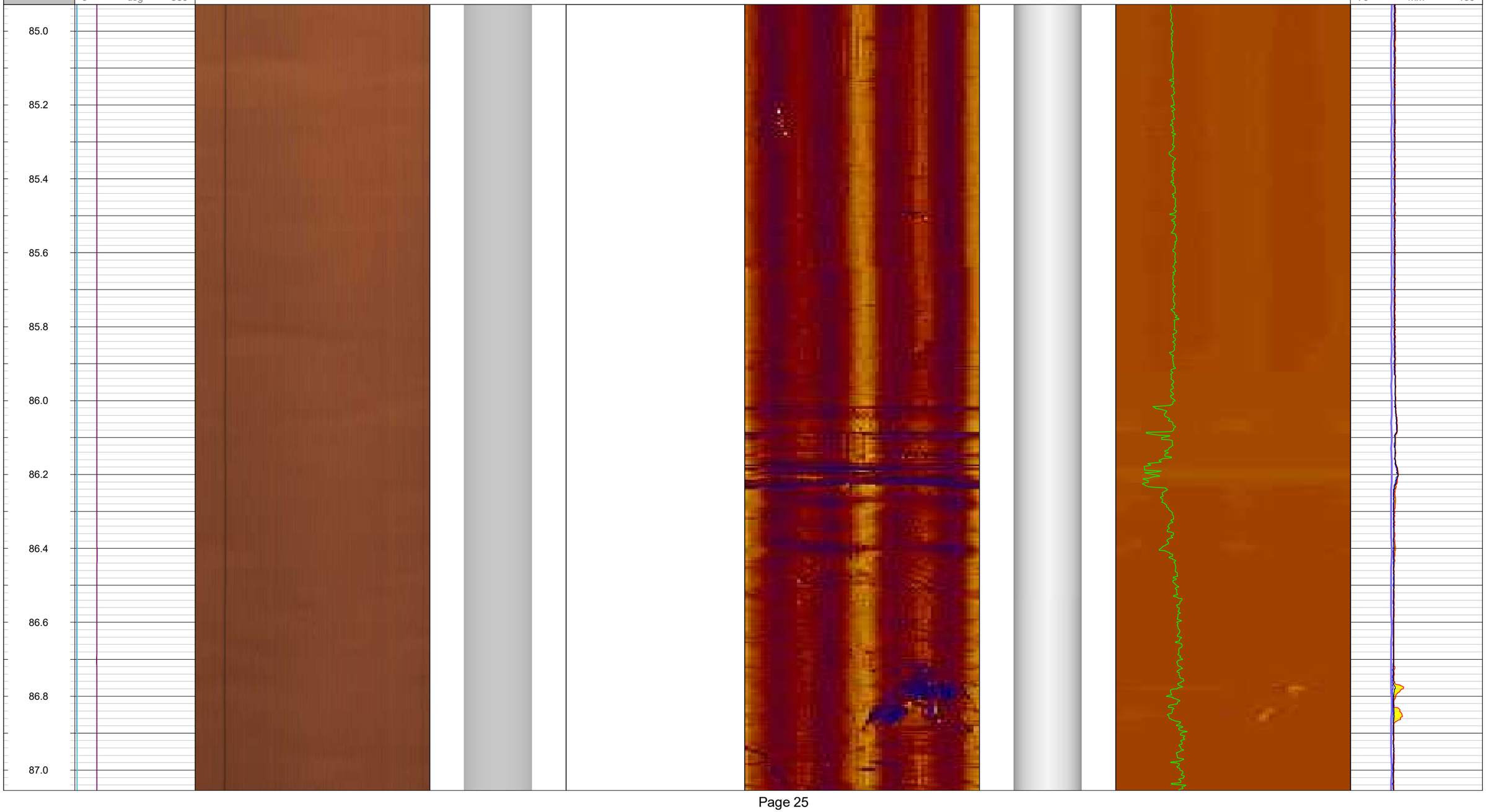
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

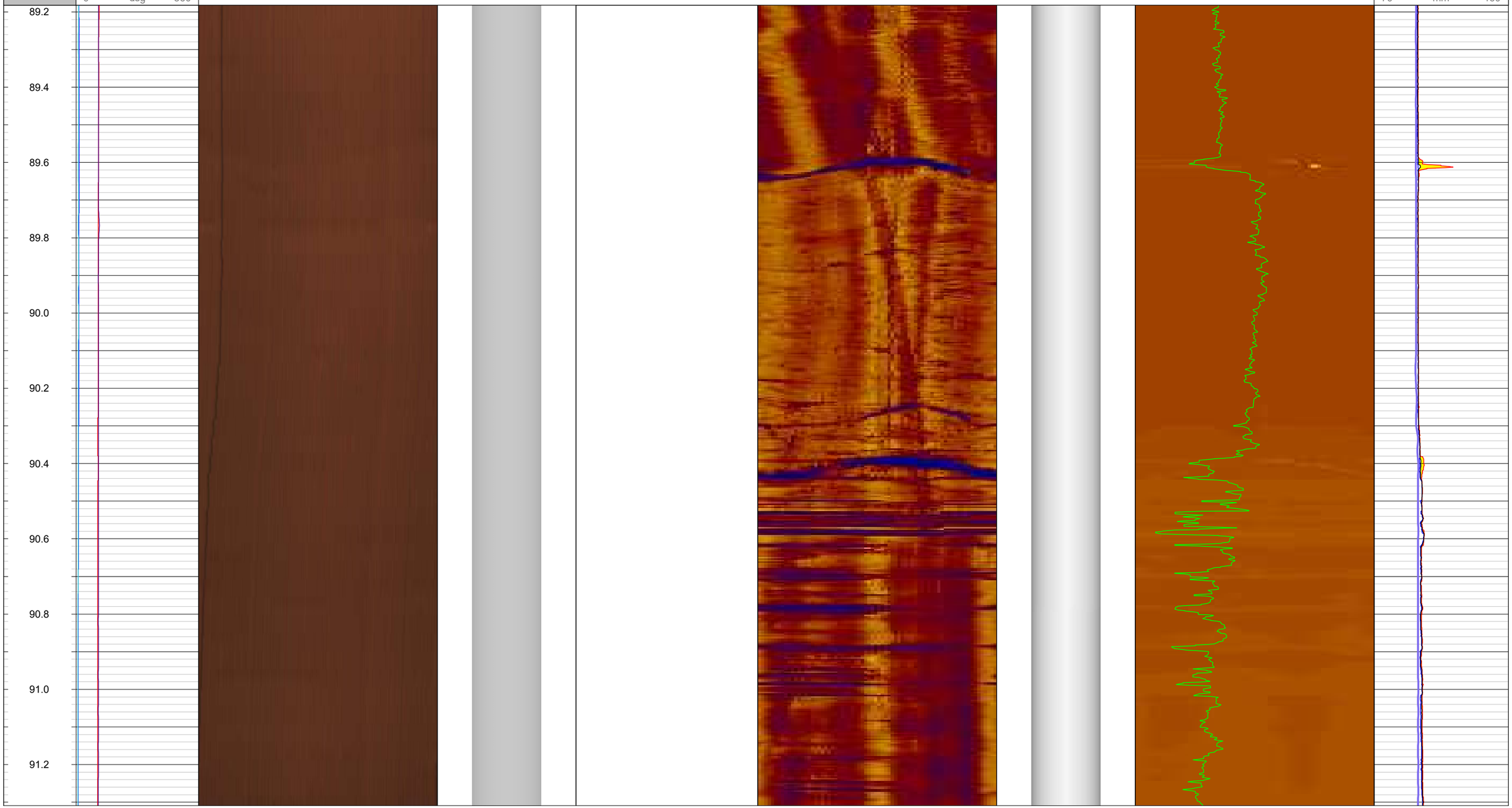


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

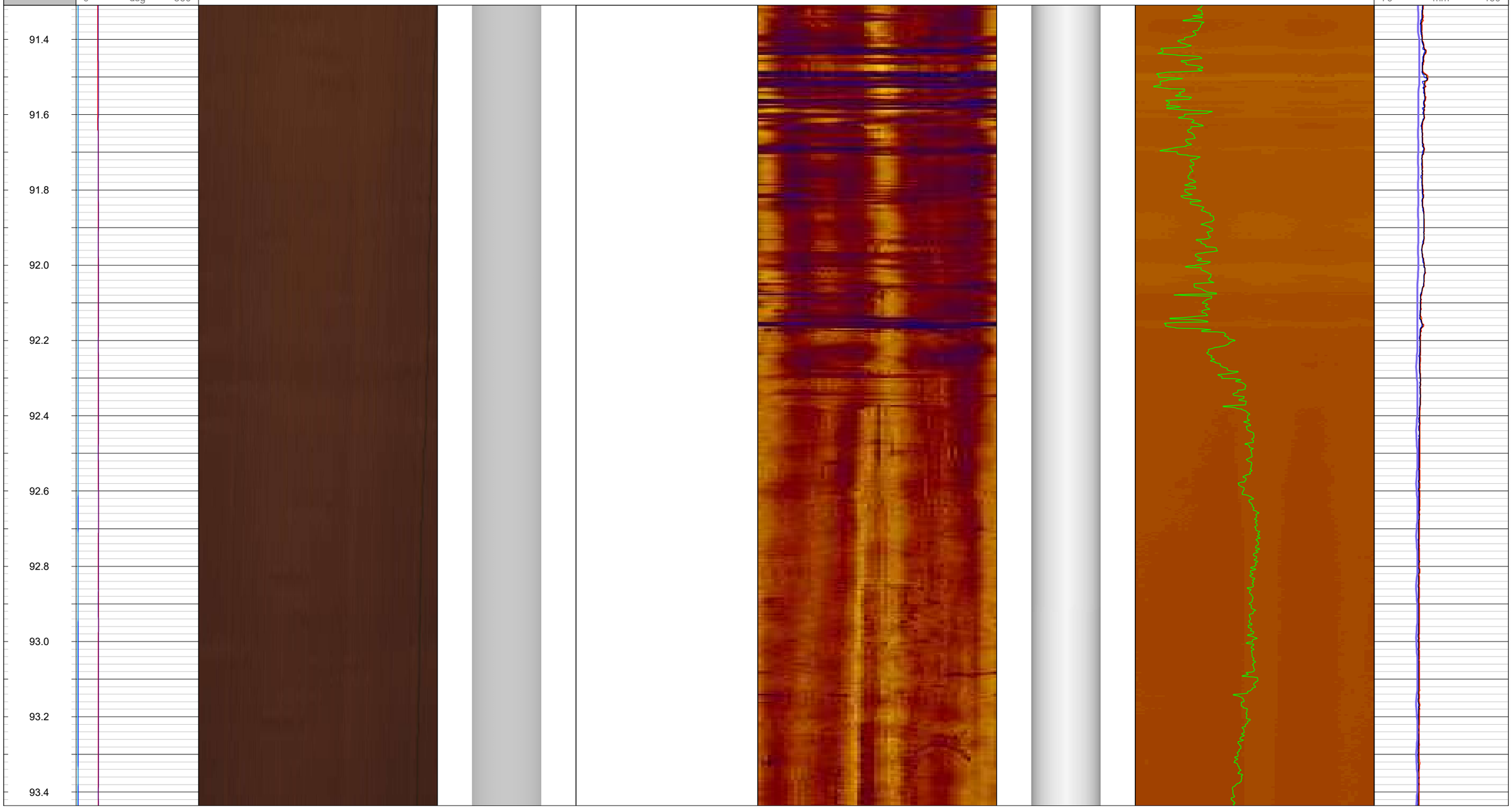


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
87.2								
87.4								
87.6								
87.8								
88.0								
88.2								
88.4								
88.6								
88.8								
89.0								

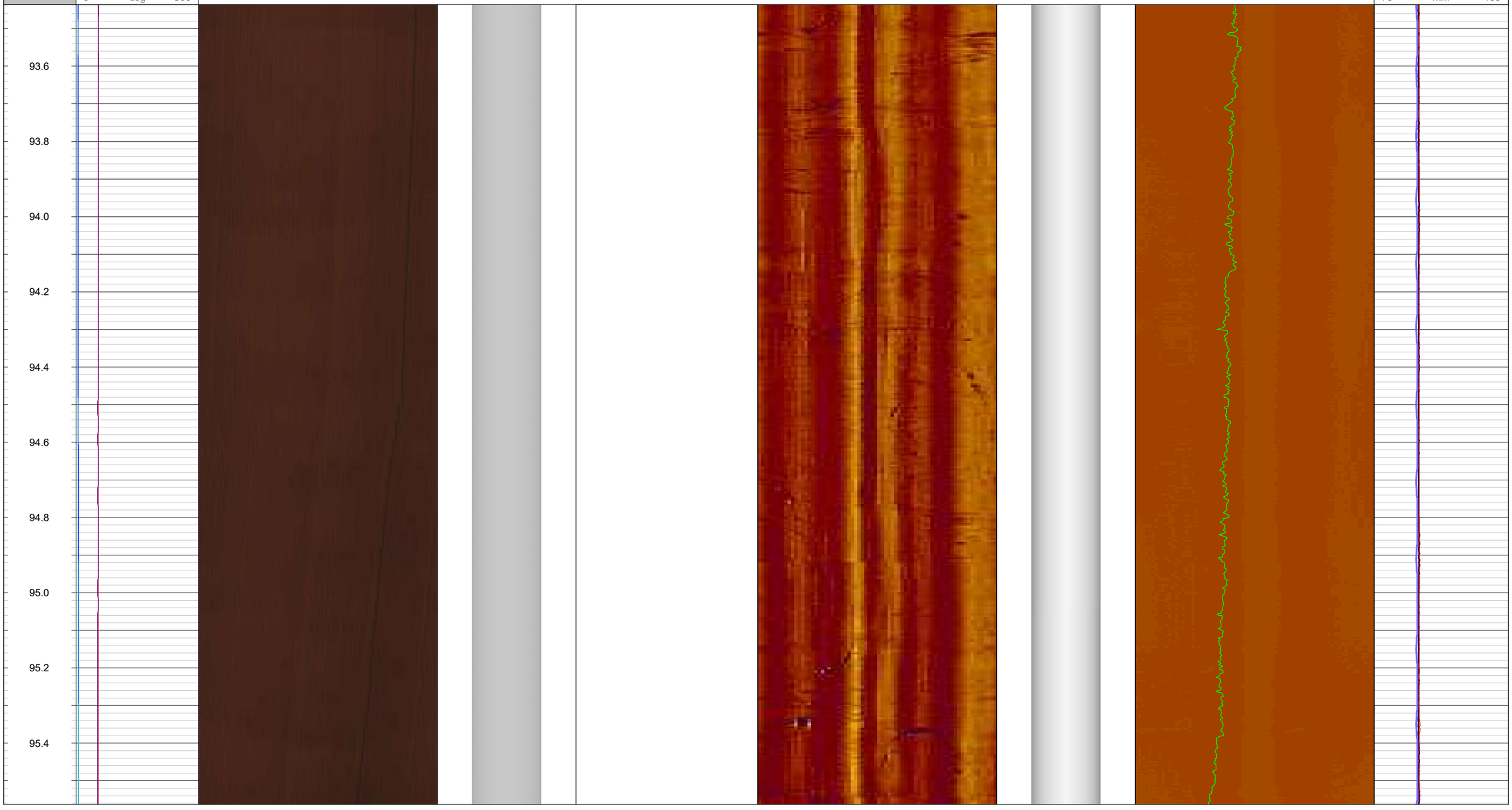
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



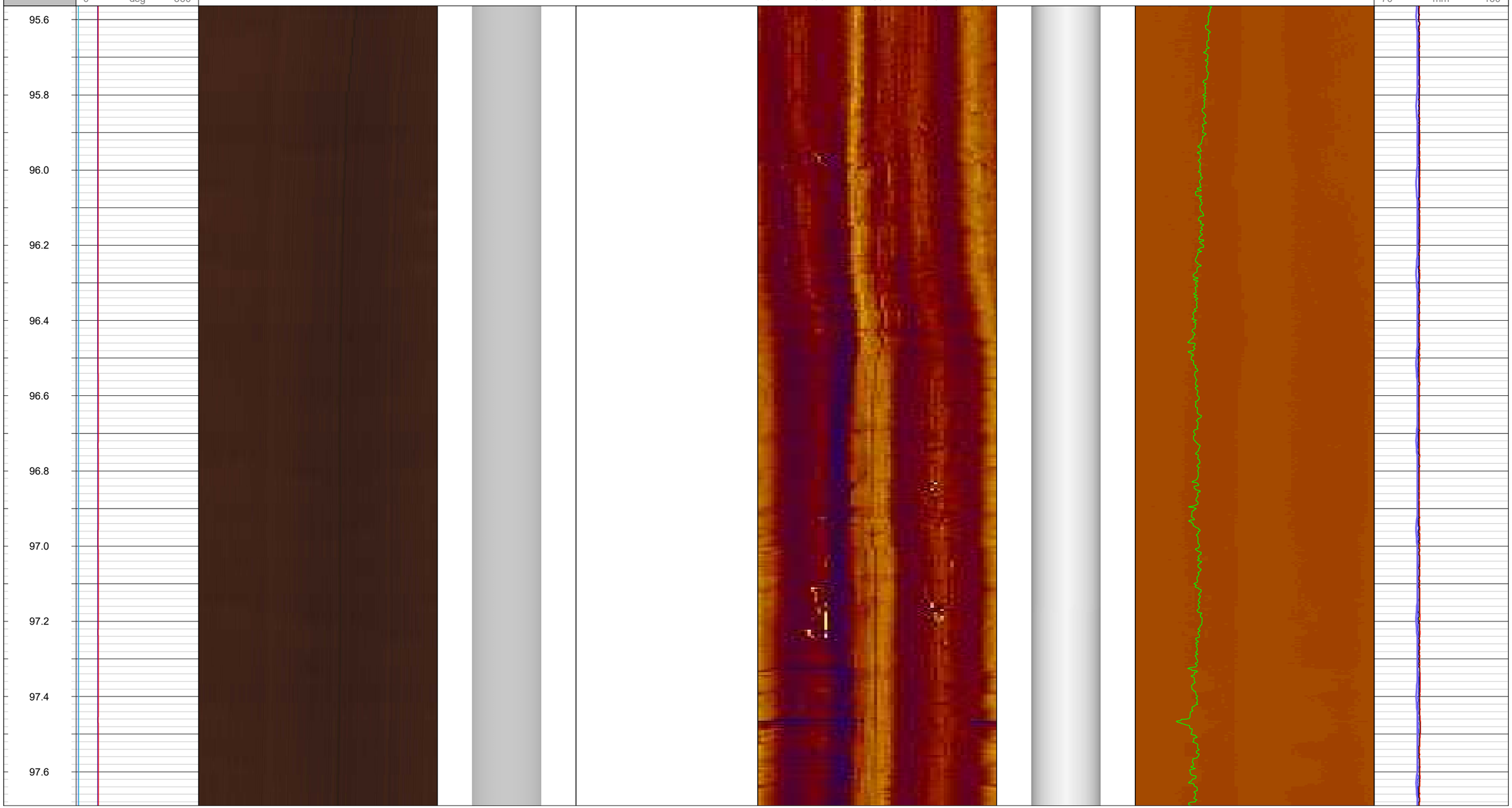
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



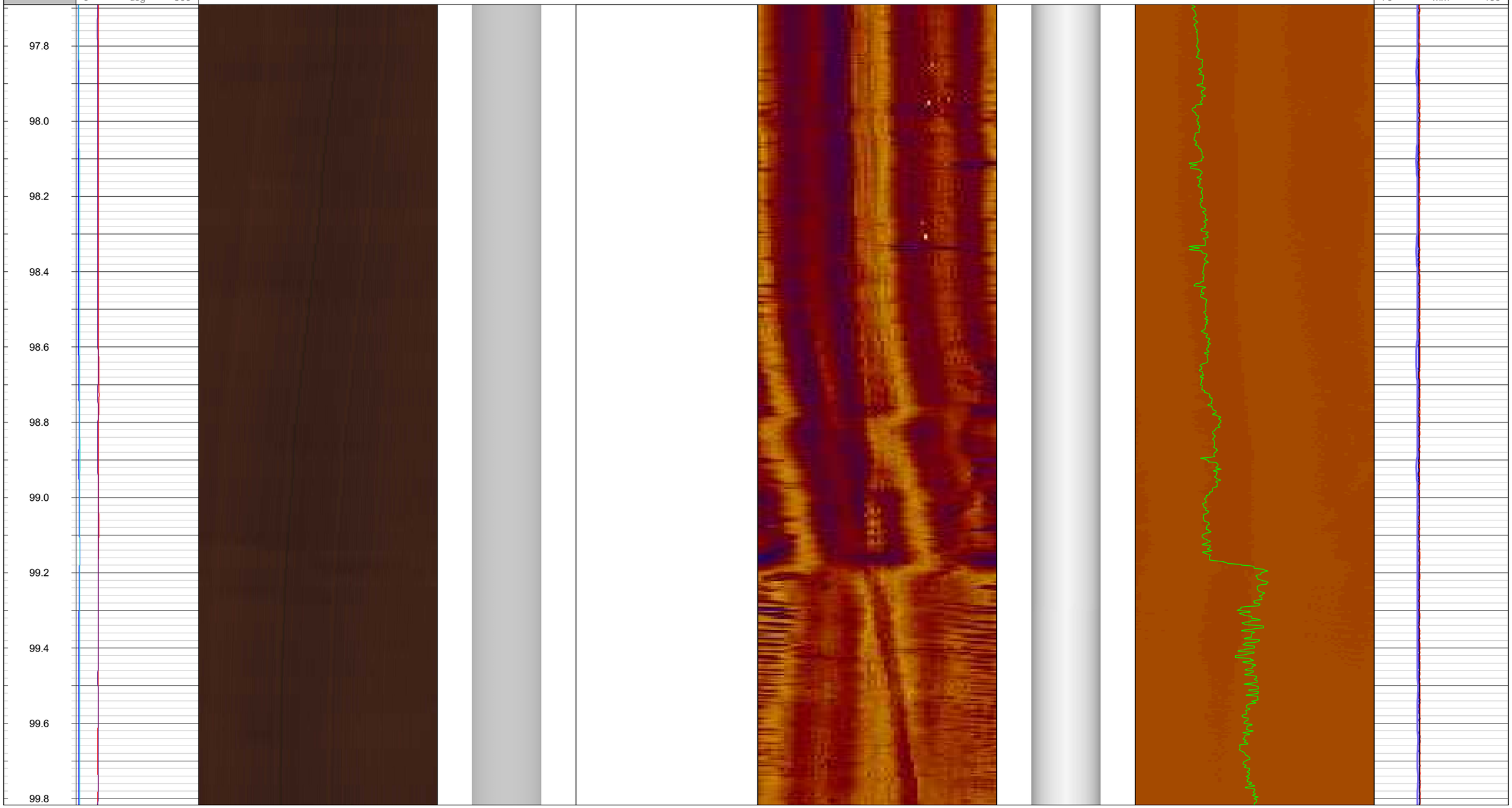
Depth	Orientation	Acoustic and Optical Televiewer Analysis					Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



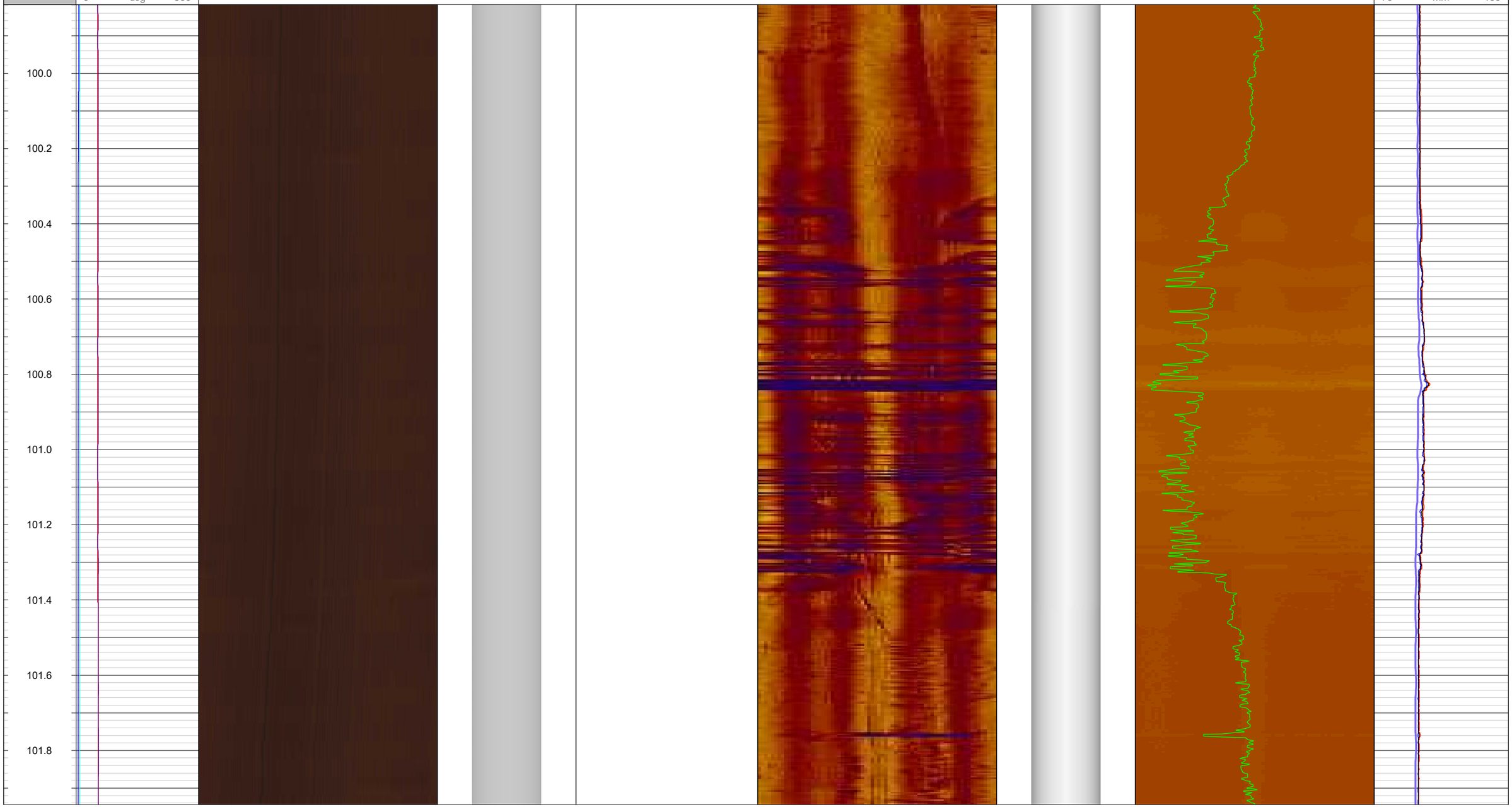
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

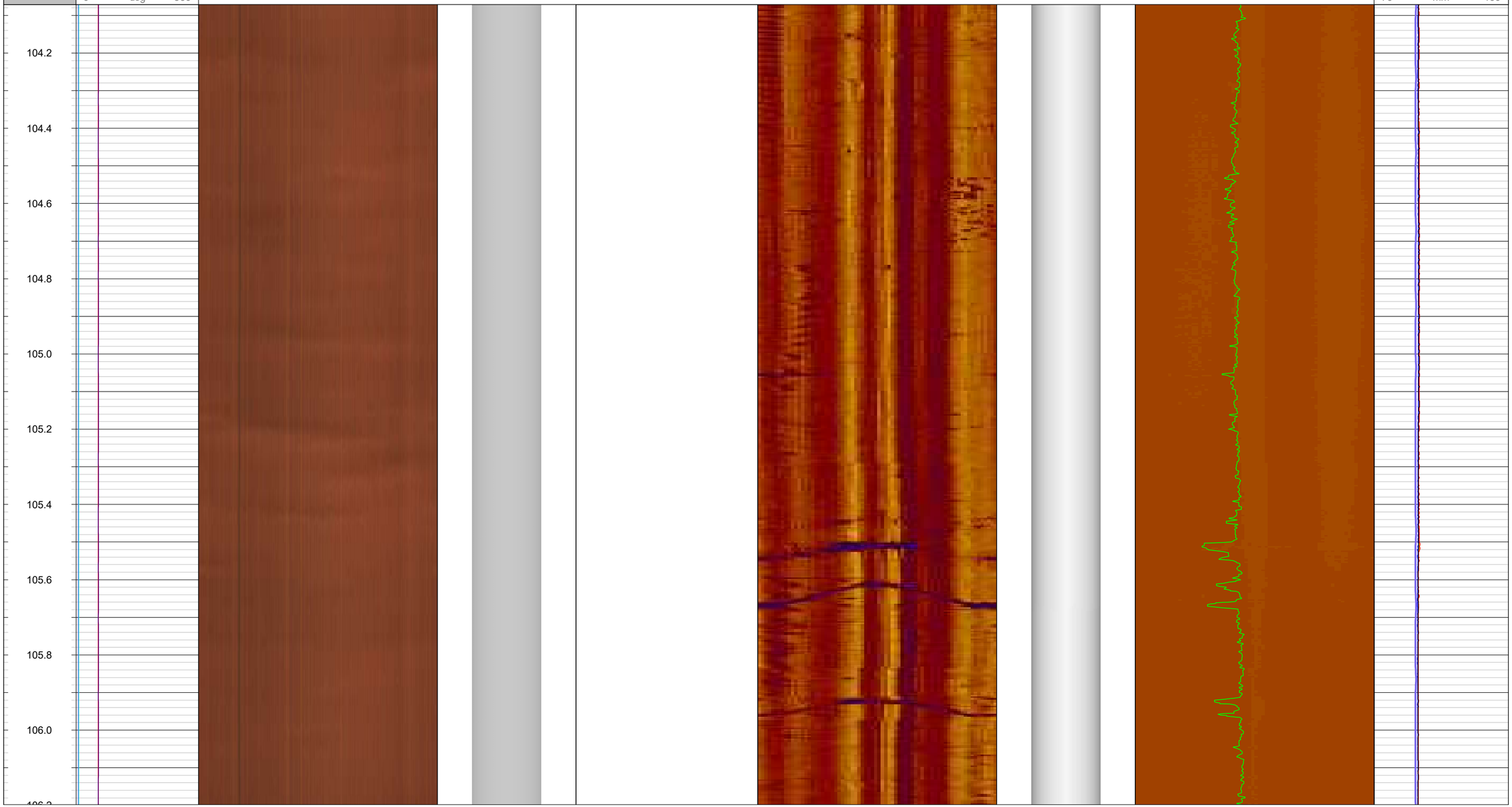


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
102.0								
102.2								
102.4								
102.6								
102.8								
103.0								
103.2								
103.4								
103.6								
103.8								
104.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

106.2
106.4
106.6
106.8
107.0
107.2
107.4
107.6
107.8
108.0
108.2

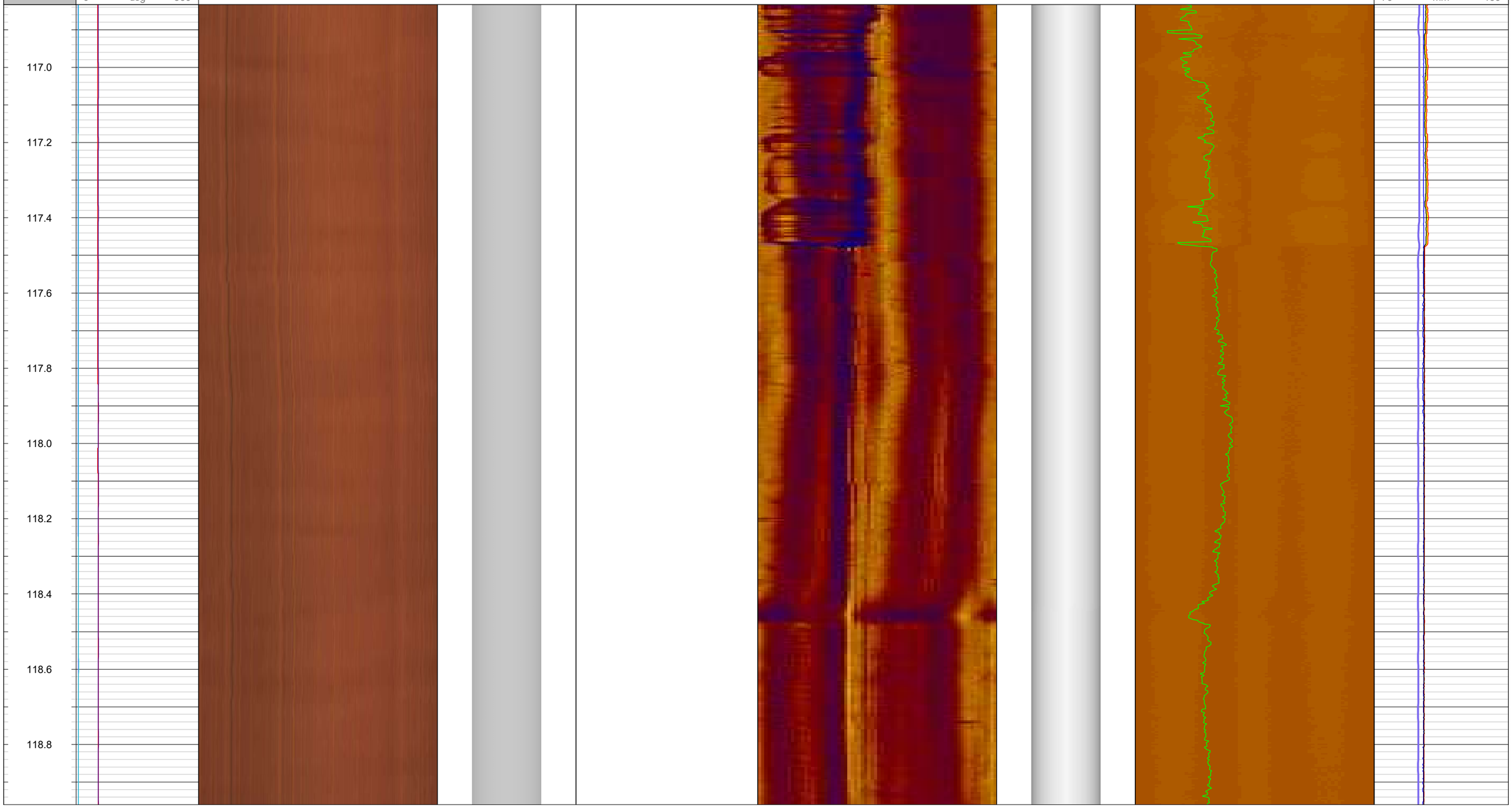
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
108.4								
108.6								
108.8								
109.0								
109.2								
109.4								
109.6								
109.8								
110.0								
110.2								
110.4								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
110.6								
110.8								
111.0								
111.2								
111.4								
111.6								
111.8								
112.0								
112.2								
112.4								

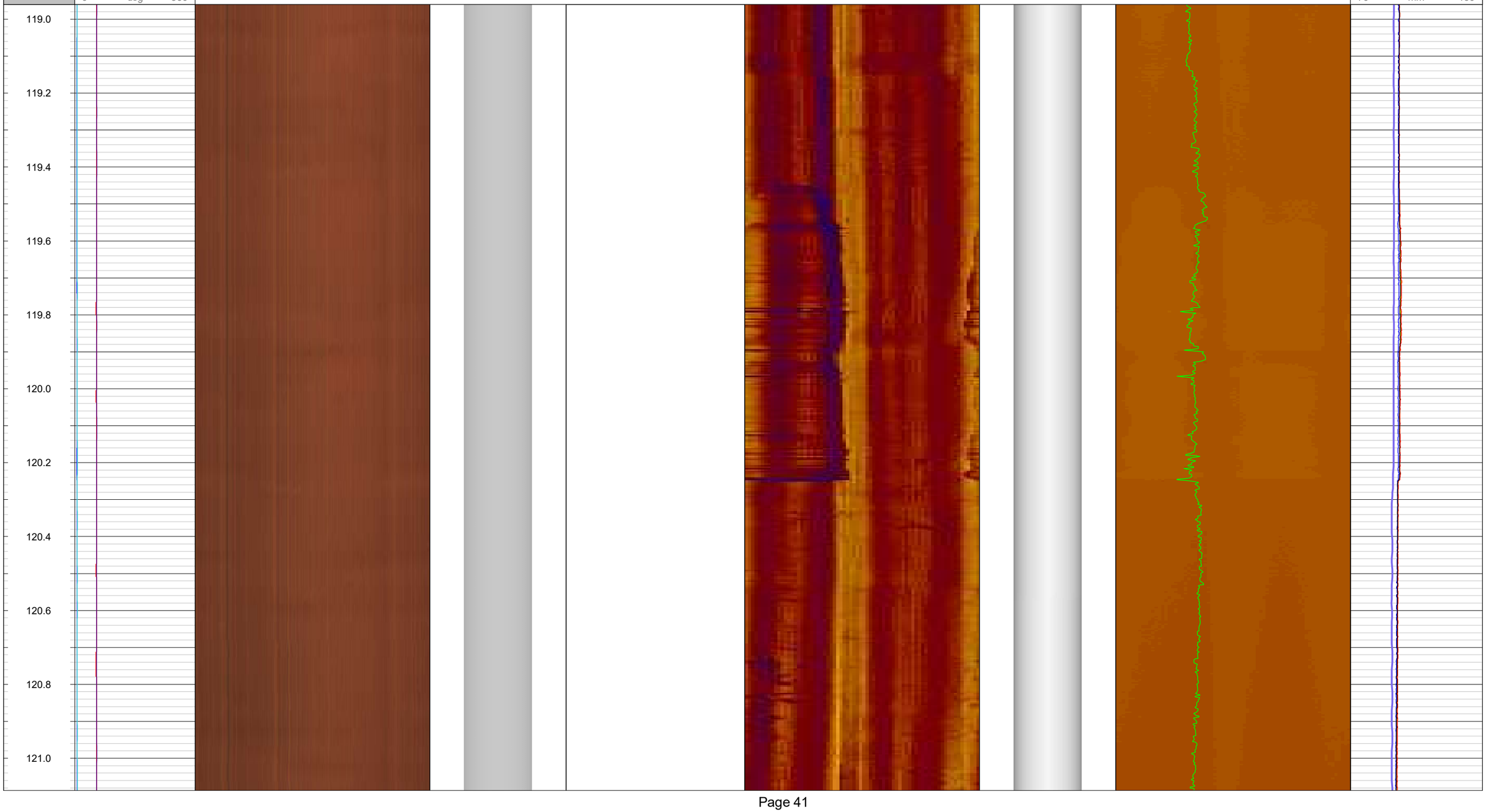
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
112.6								
112.8								
113.0								
113.2								
113.4								
113.6								
113.8								
114.0								
114.2								
114.4								
114.6								

Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
114.8									
115.0									
115.2									
115.4									
115.6									
115.8									
116.0									
116.2									
116.4									
116.6									
116.8									

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

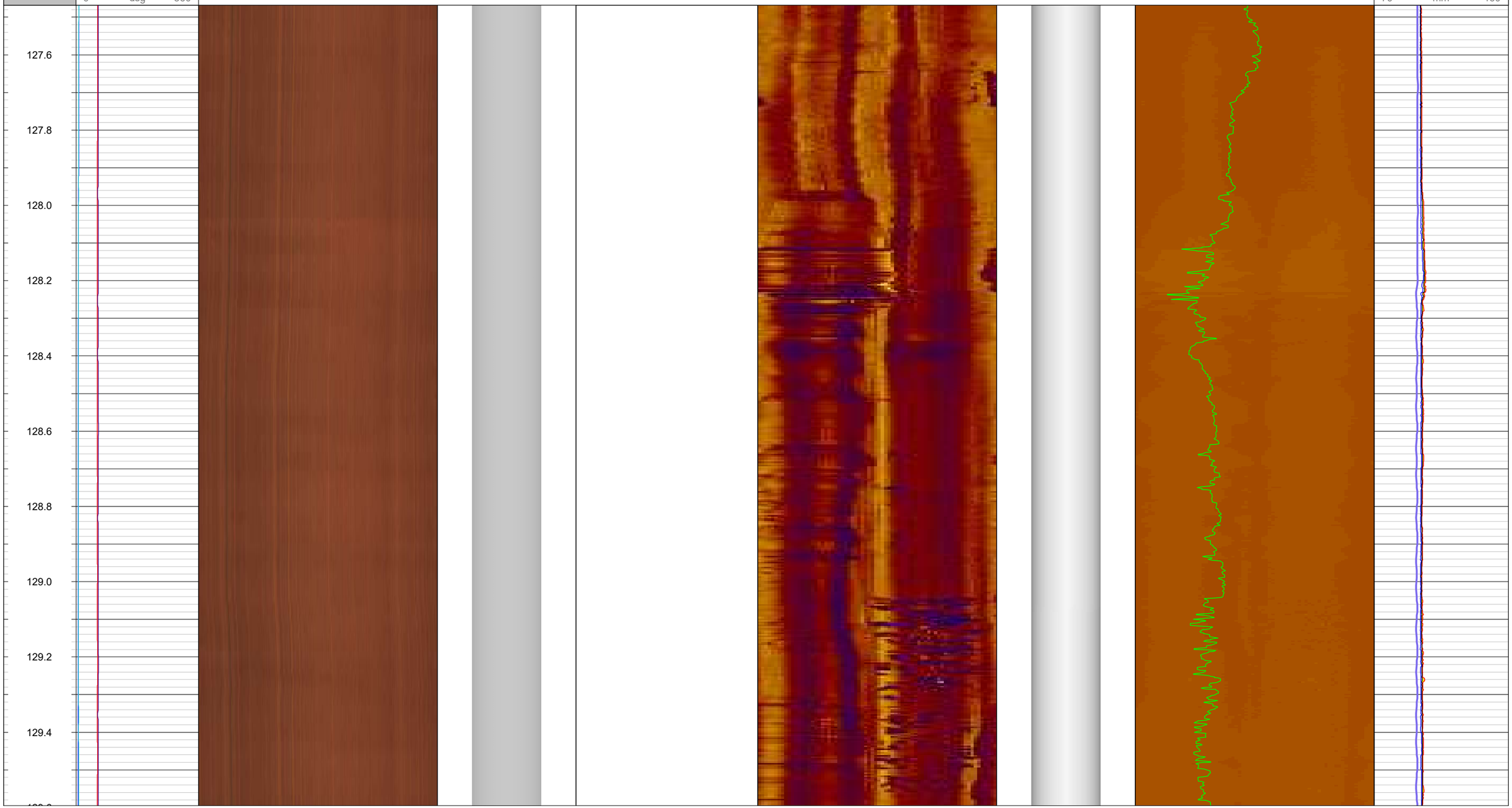


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
121.2								
121.4								
121.6								
121.8								
122.0								
122.2								
122.4								
122.6								
122.8								
123.0								
123.2								

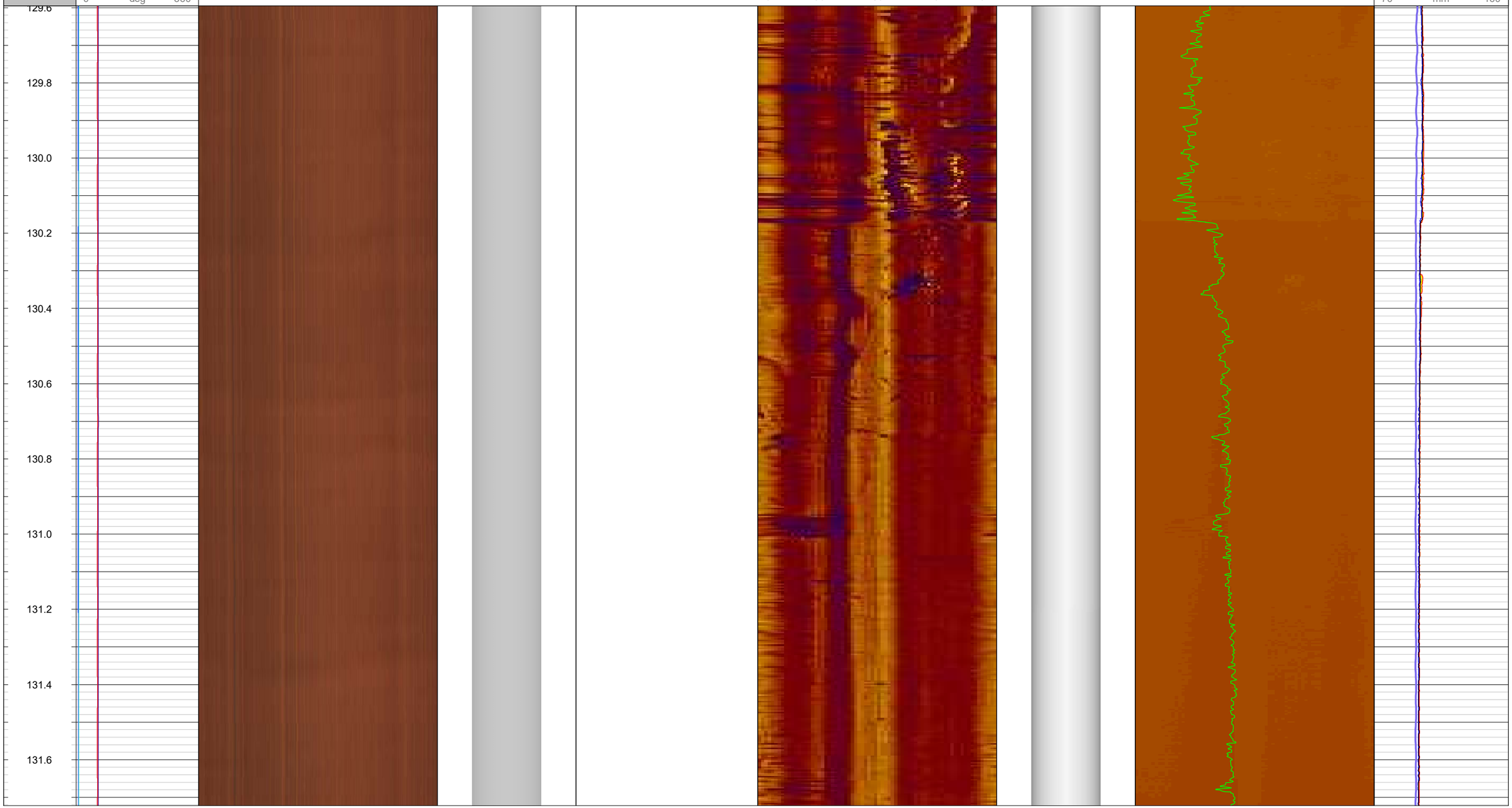
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
123.4								
123.6								
123.8								
124.0								
124.2								
124.4								
124.6								
124.8								
125.0								
125.2								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
125.4								
125.6								
125.8								
126.0								
126.2								
126.4								
126.6								
126.8								
127.0								
127.2								
127.4								

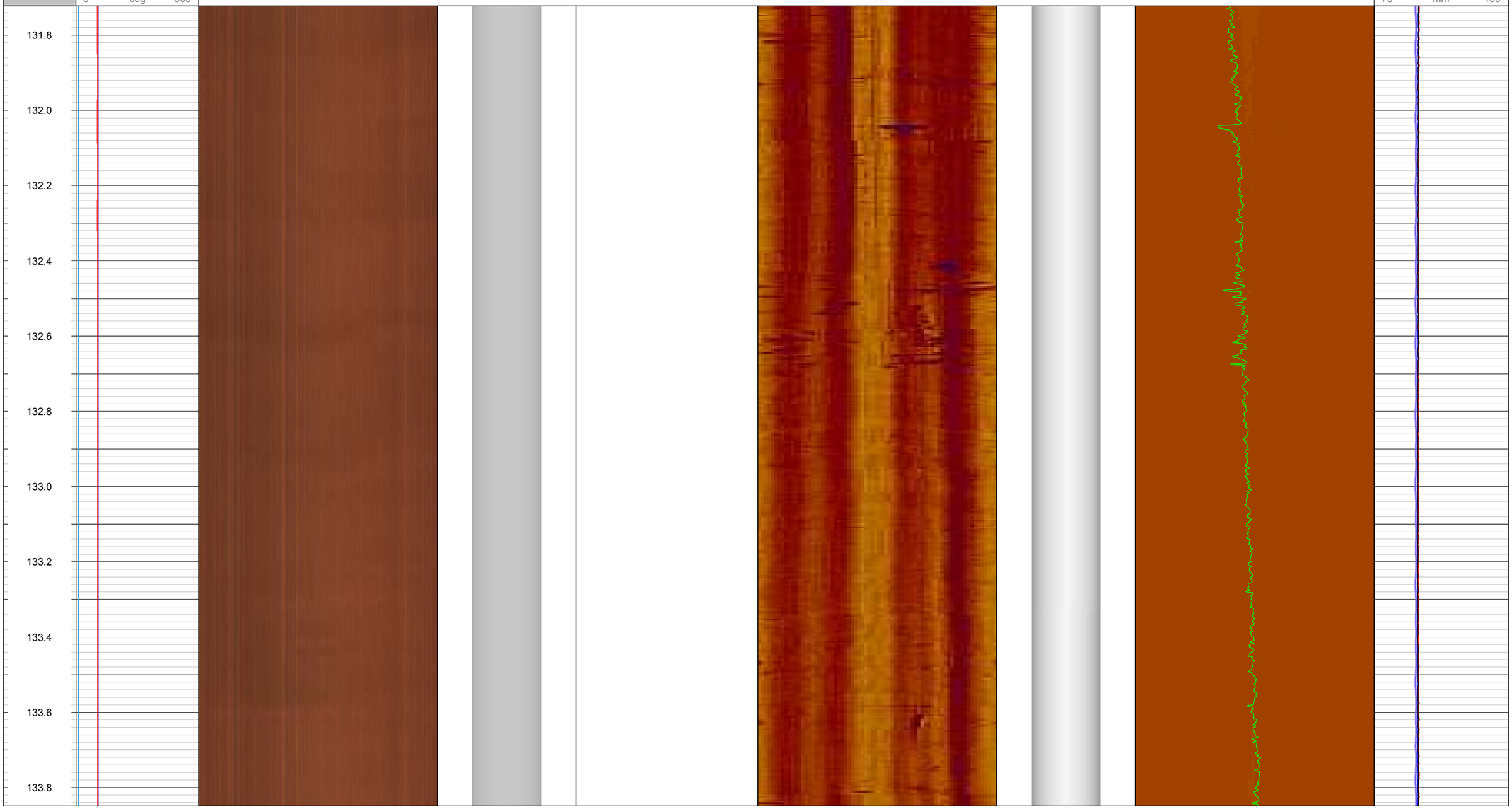
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

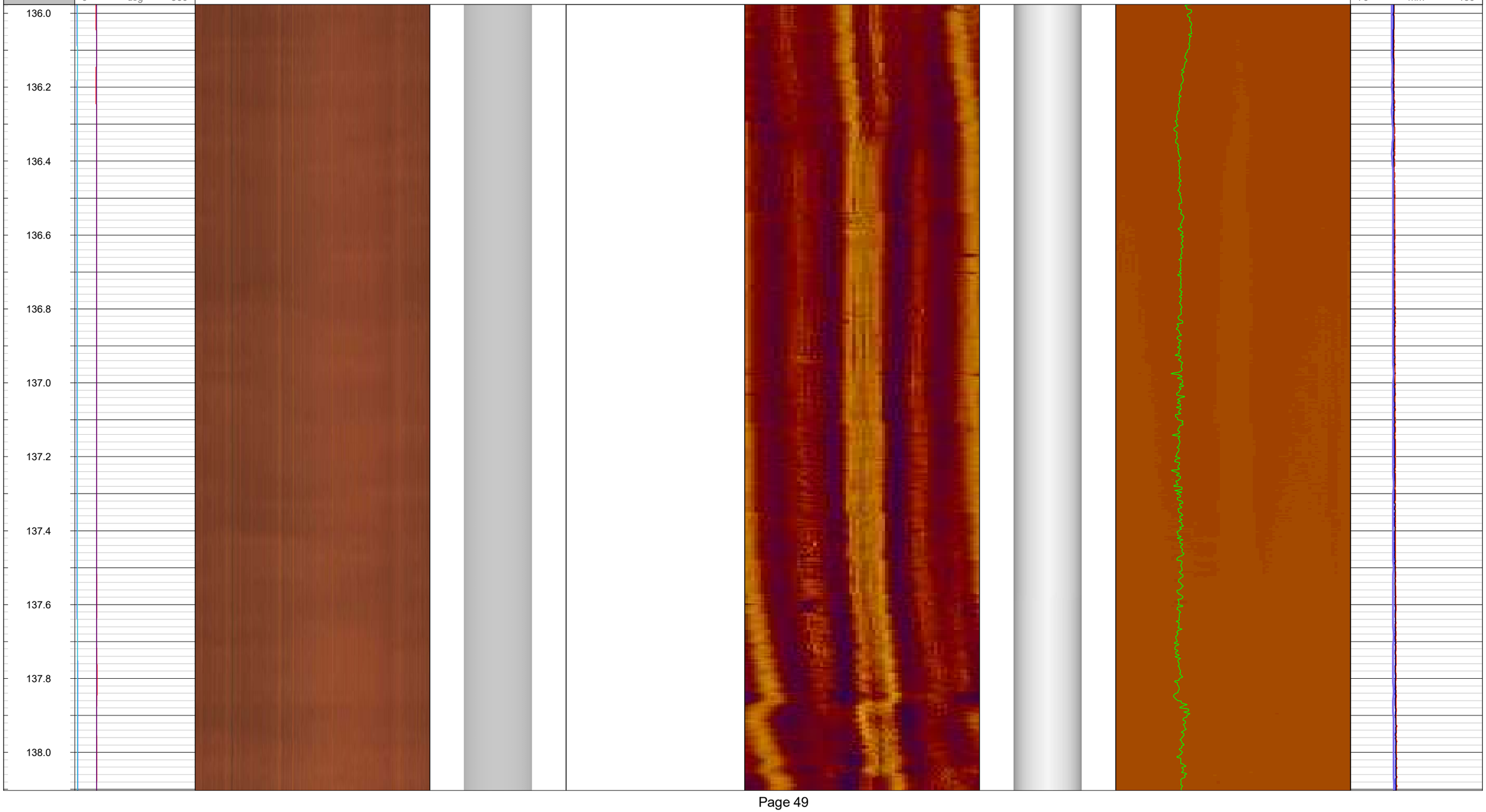


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

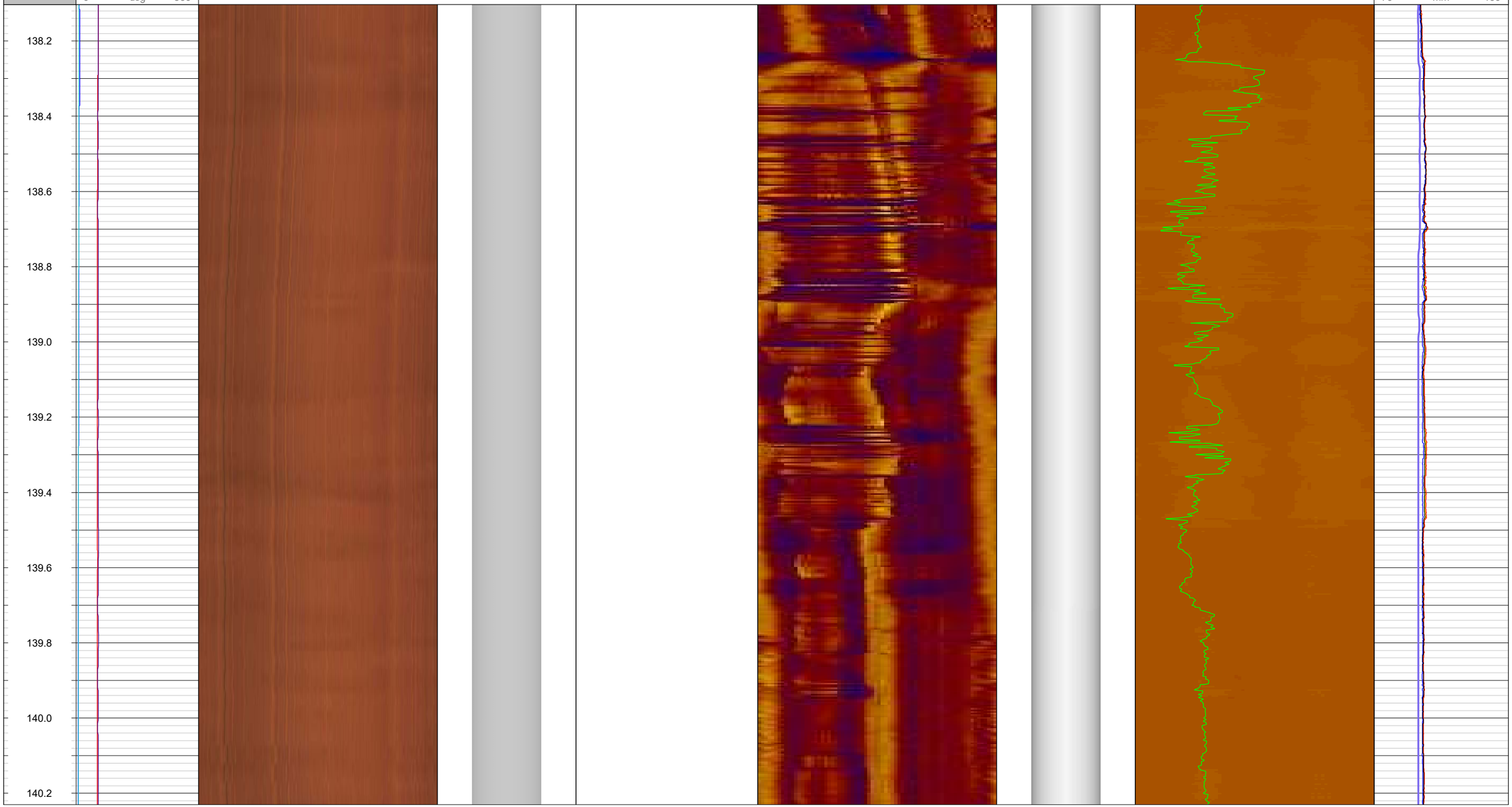


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
134.0								
134.2								
134.4								
134.6								
134.8								
135.0								
135.2								
135.4								
135.6								
135.8								

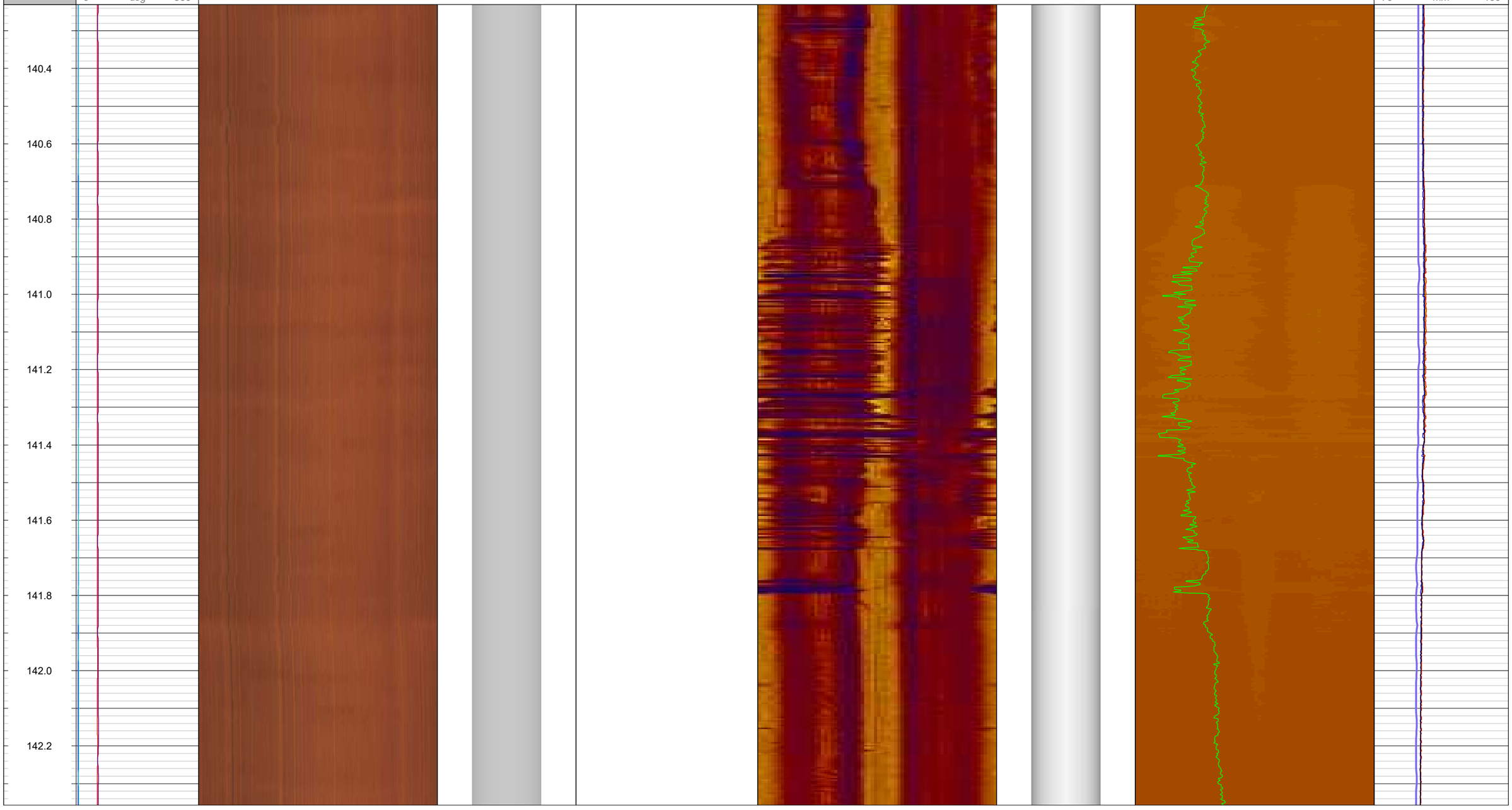
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



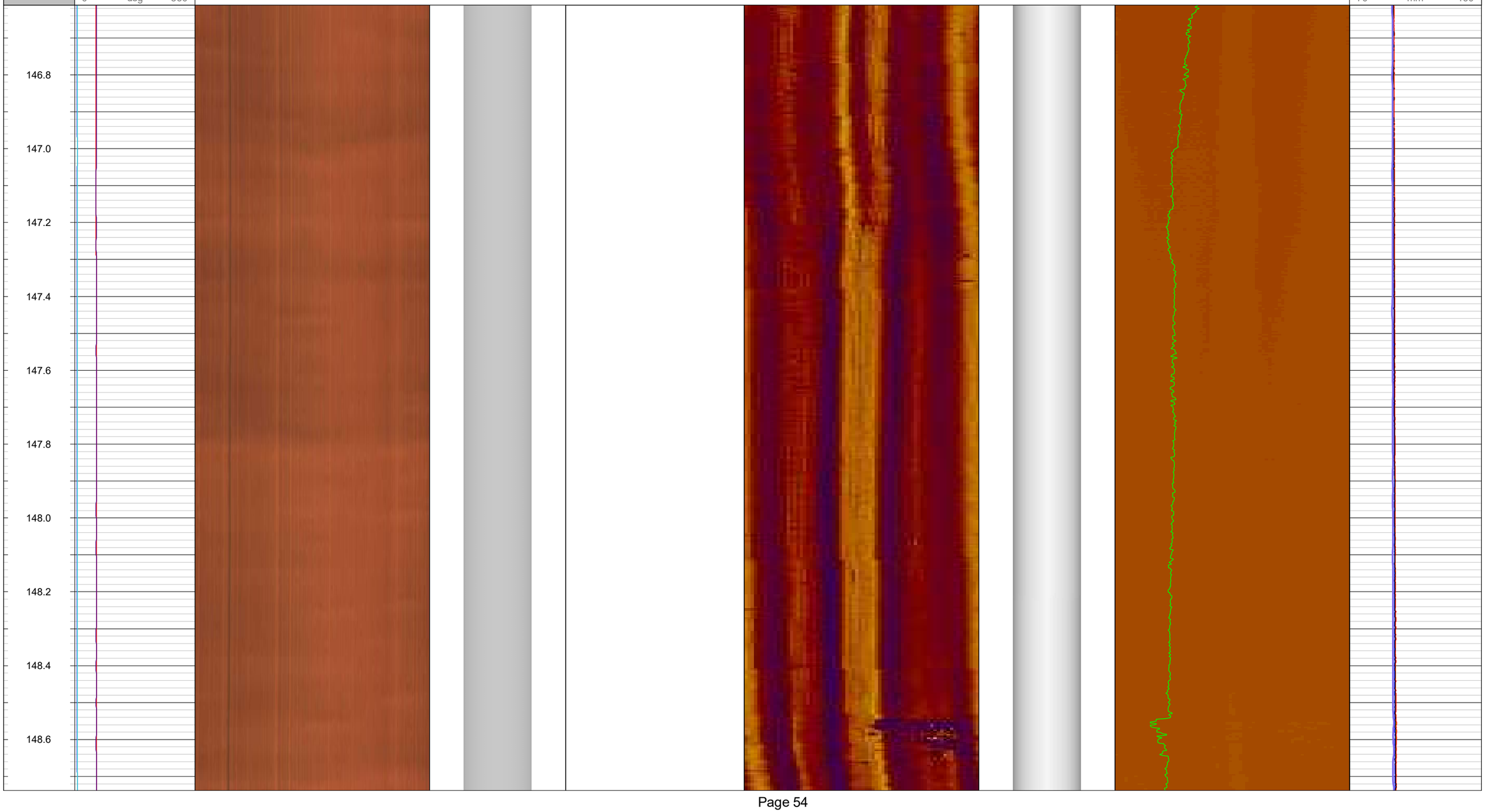
Depth	Orientation	Acoustic and Optical Televiewer Analysis					Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
142.4								
142.6								
142.8								
143.0								
143.2								
143.4								
143.6								
143.8								
144.0								
144.2								
144.4								

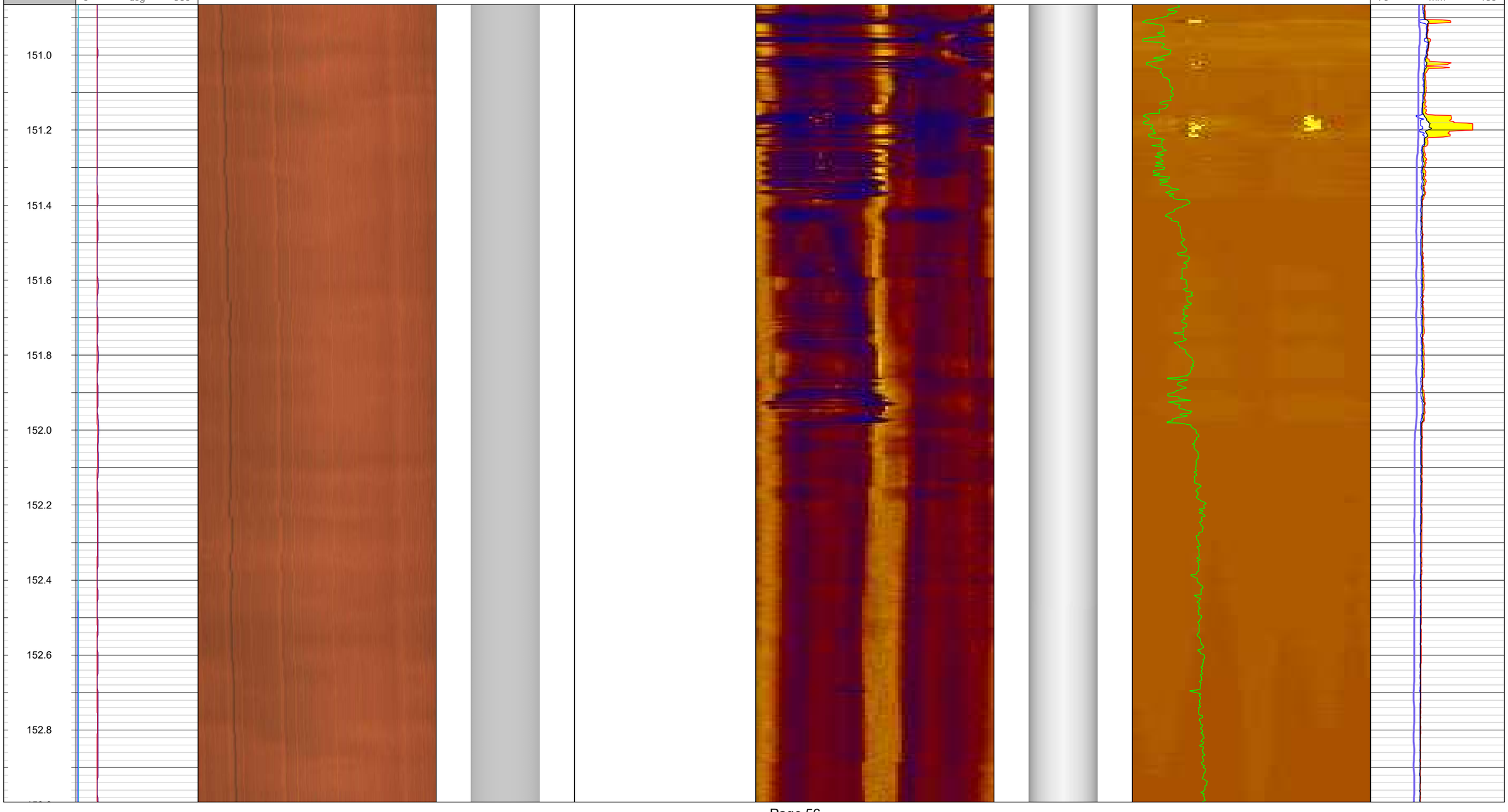
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
144.6								
144.8								
145.0								
145.2								
145.4								
145.6								
145.8								
146.0								
146.2								
146.4								
146.6								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



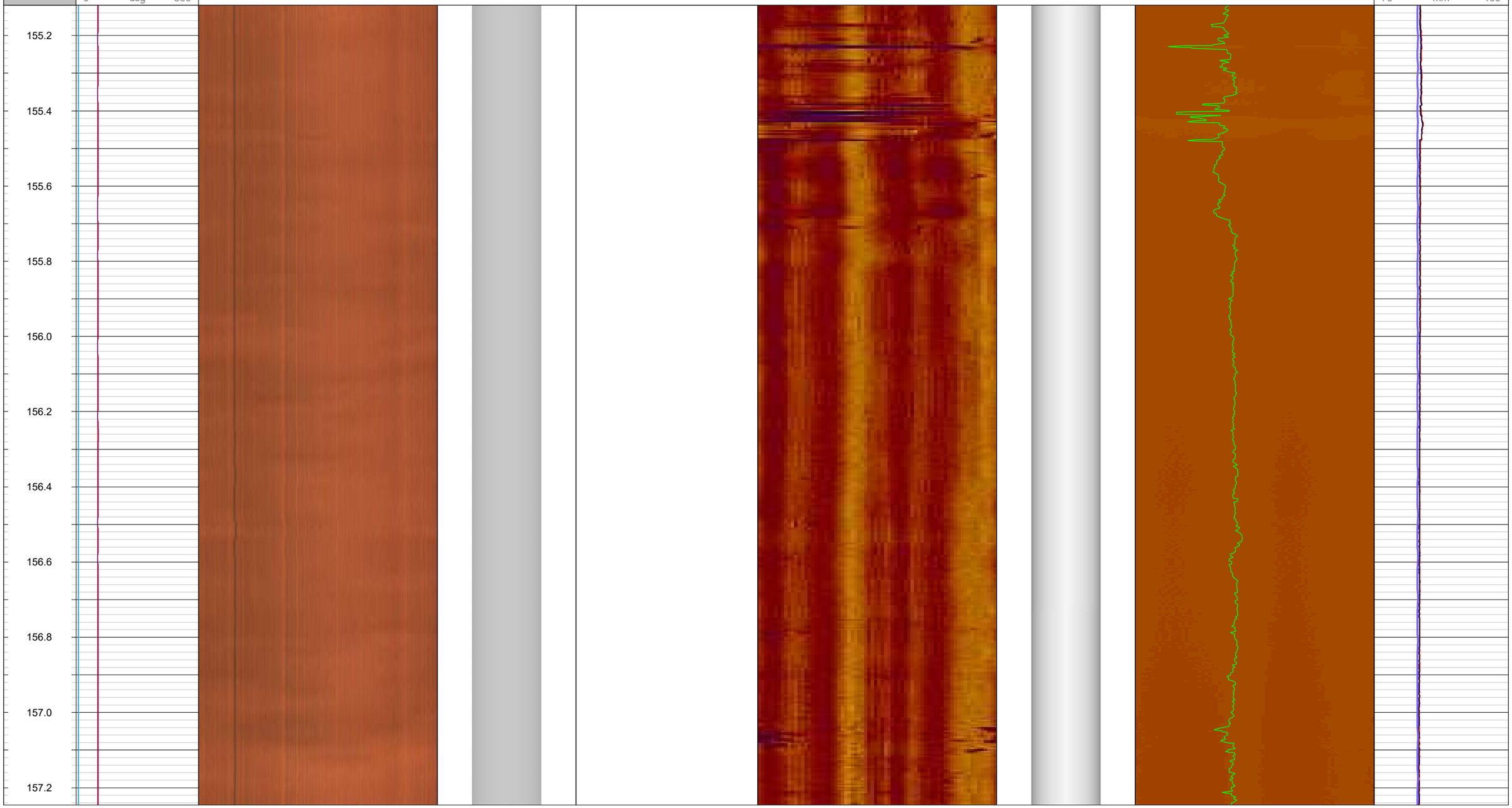
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
148.8								
149.0								
149.2								
149.4								
149.6								
149.8								
150.0								
150.2								
150.4								
150.6								
150.8								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000			Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
153.0										
153.2										
153.4										
153.6										
153.8										
154.0										
154.2										
154.4										
154.6										
154.8										
155.0										

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

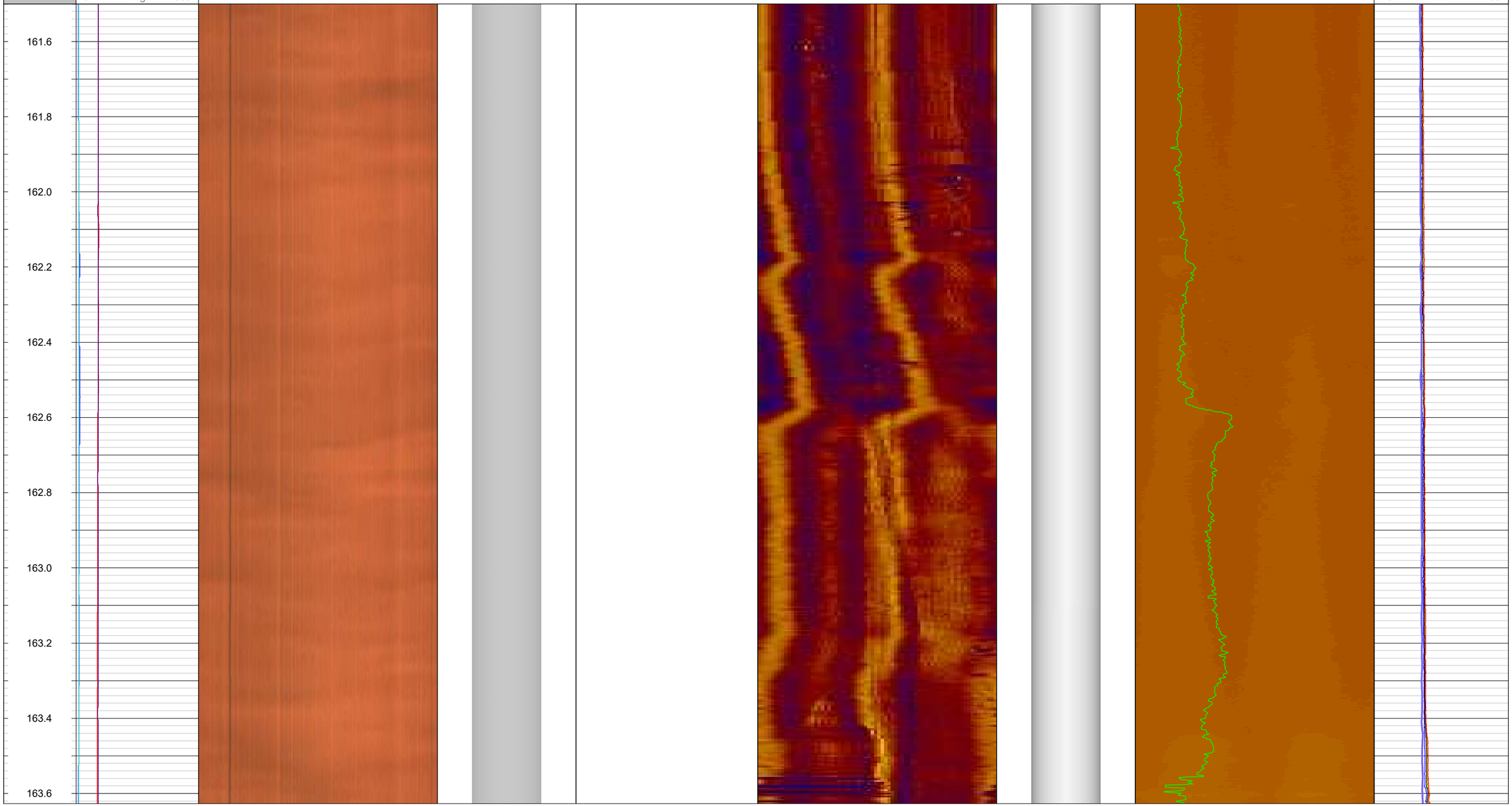


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
157.4								
157.6								
157.8								
158.0								
158.2								
158.4								
158.6								
158.8								
159.0								
159.2								

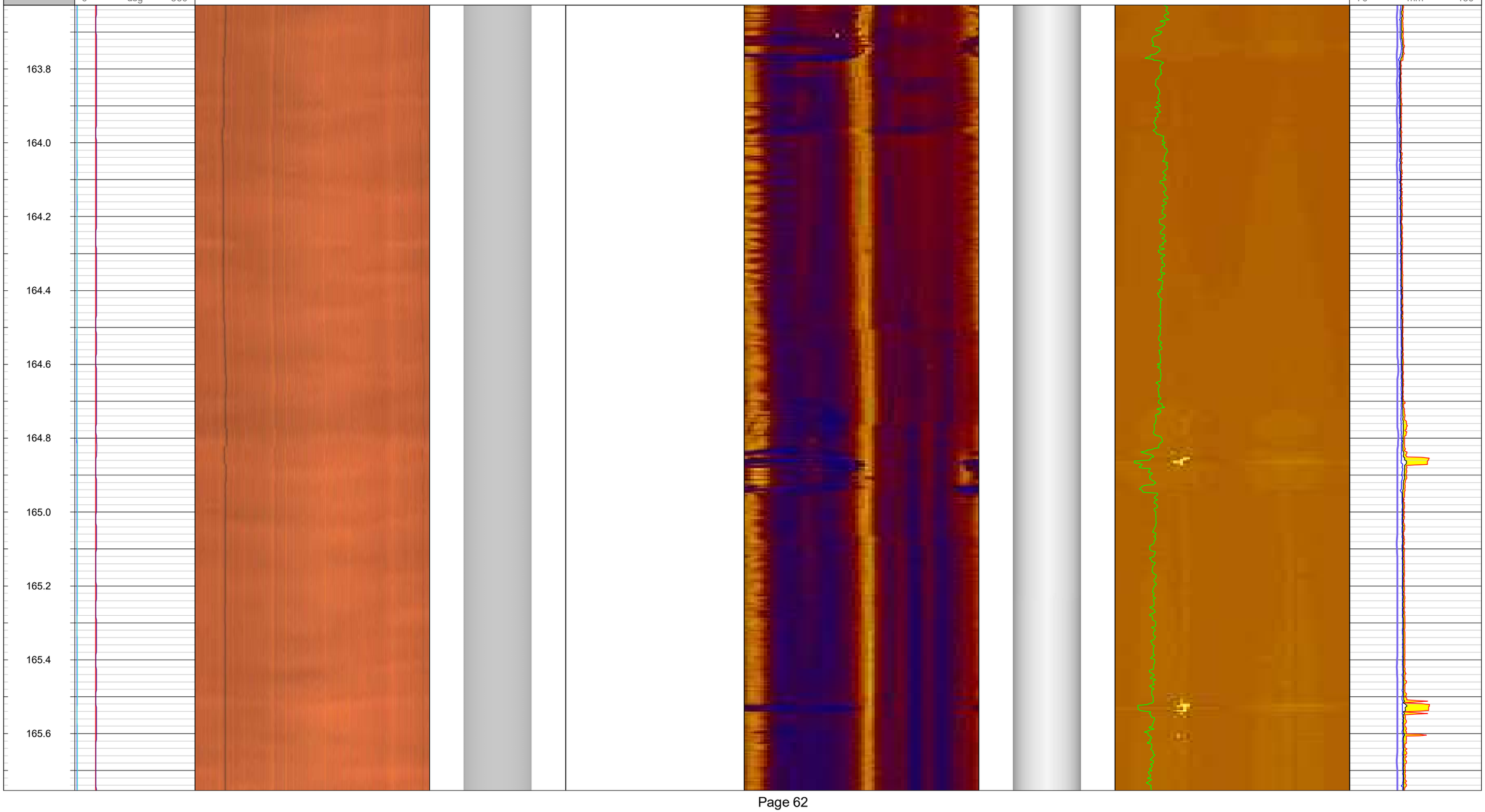
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

159.4
159.6
159.8
160.0
160.2
160.4
160.6
160.8
161.0
161.2
161.4

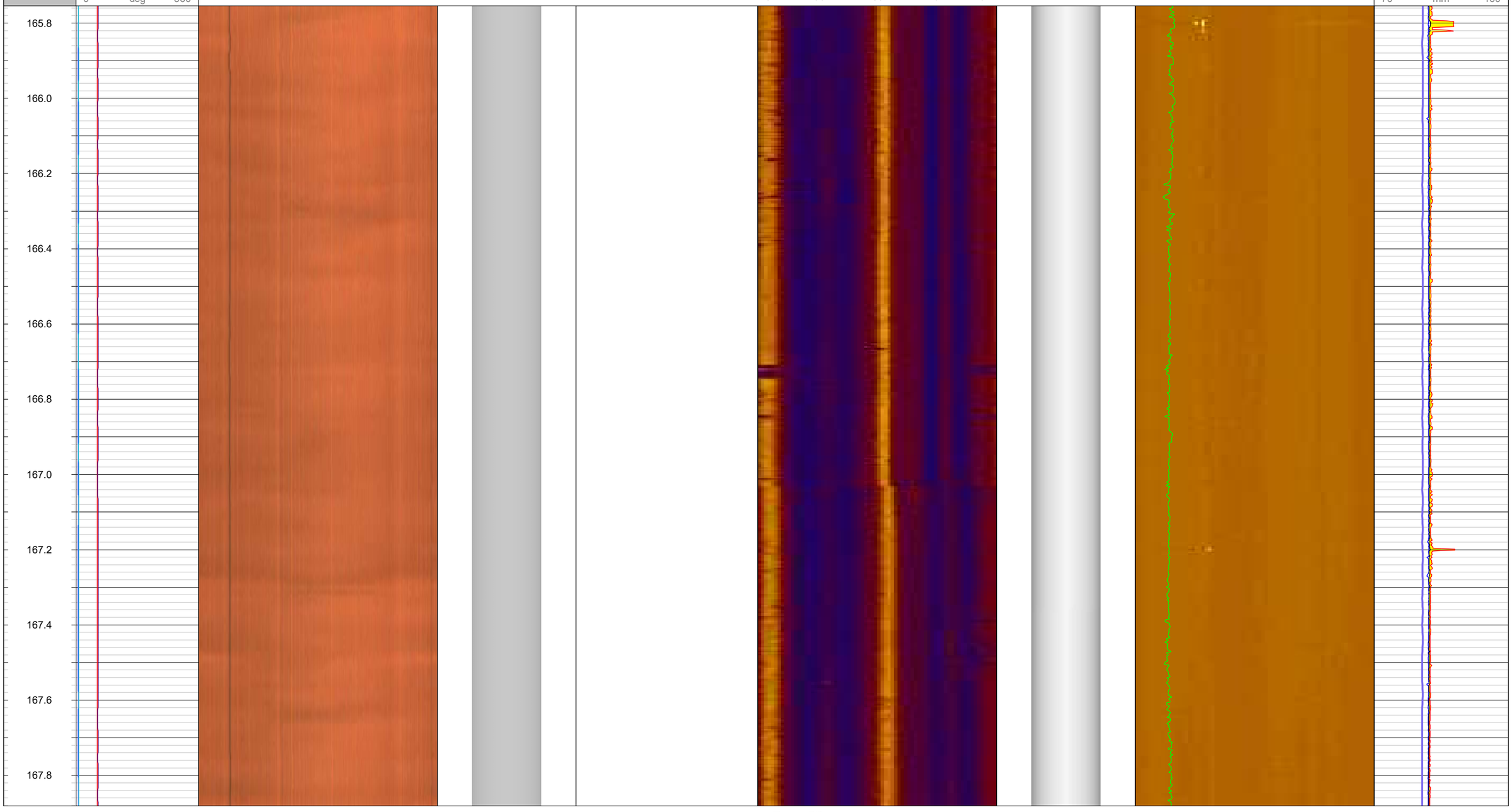
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



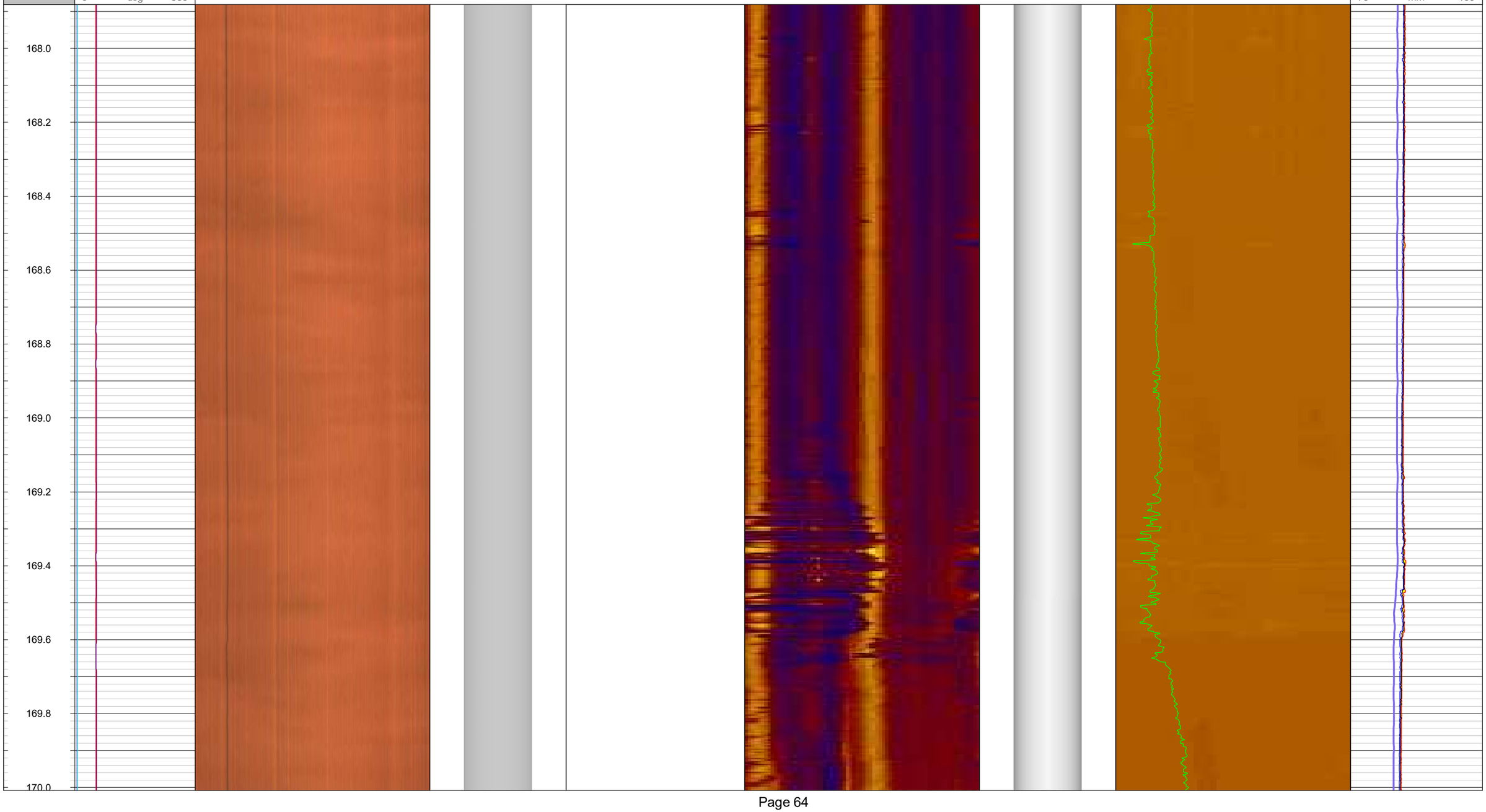
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

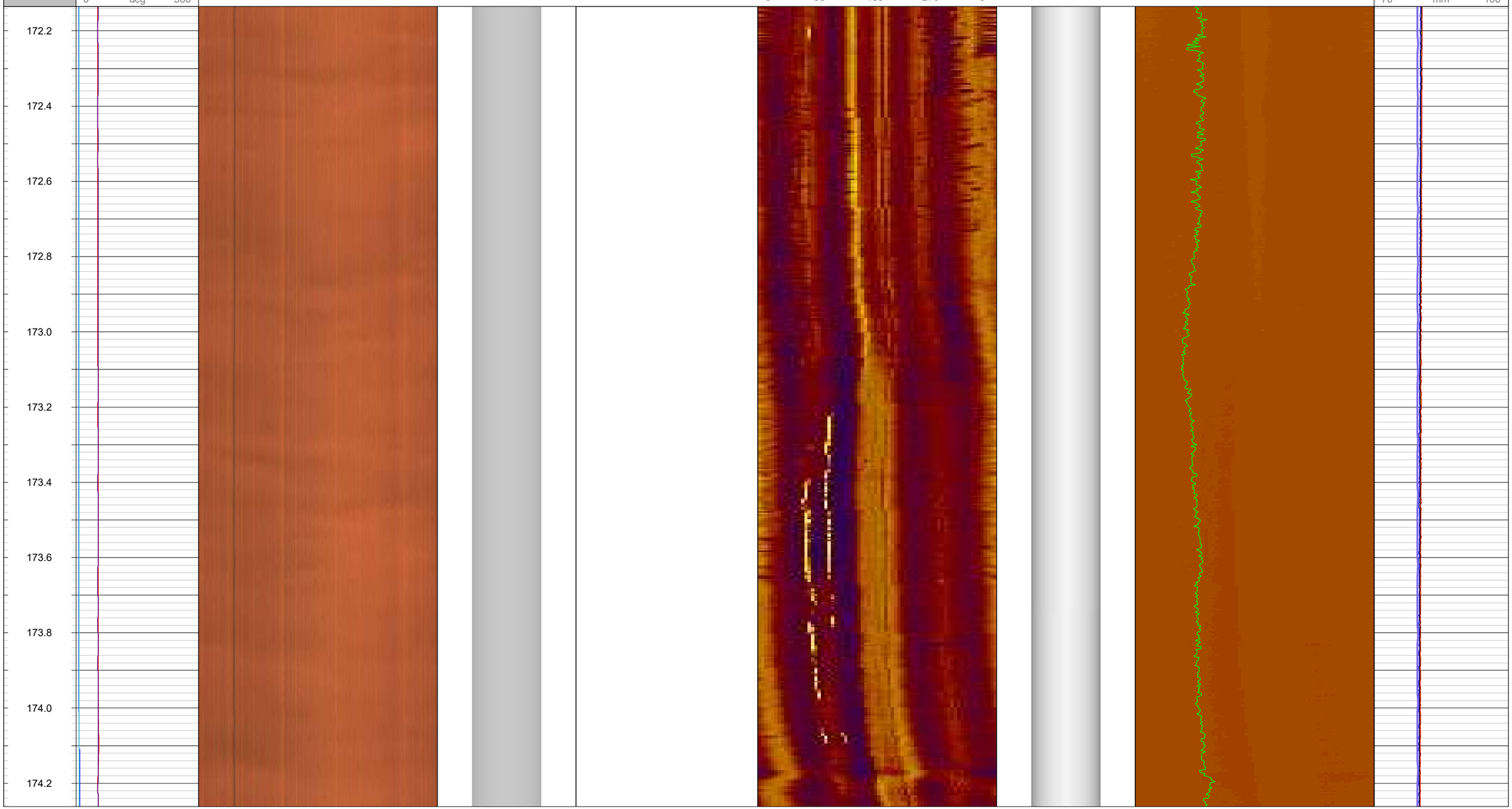


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

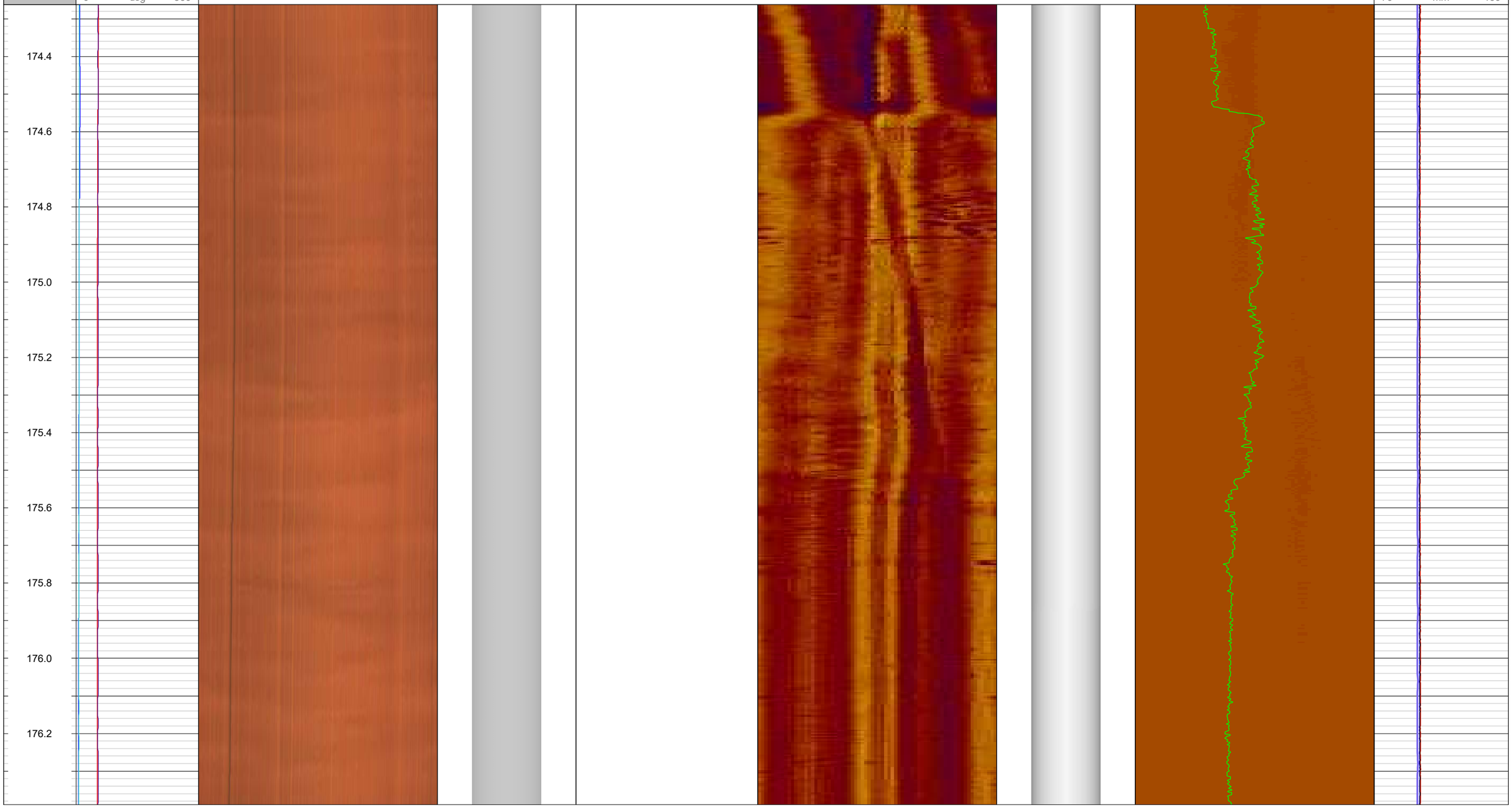


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
170.2								
170.4								
170.6								
170.8								
171.0								
171.2								
171.4								
171.6								
171.8								
172.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



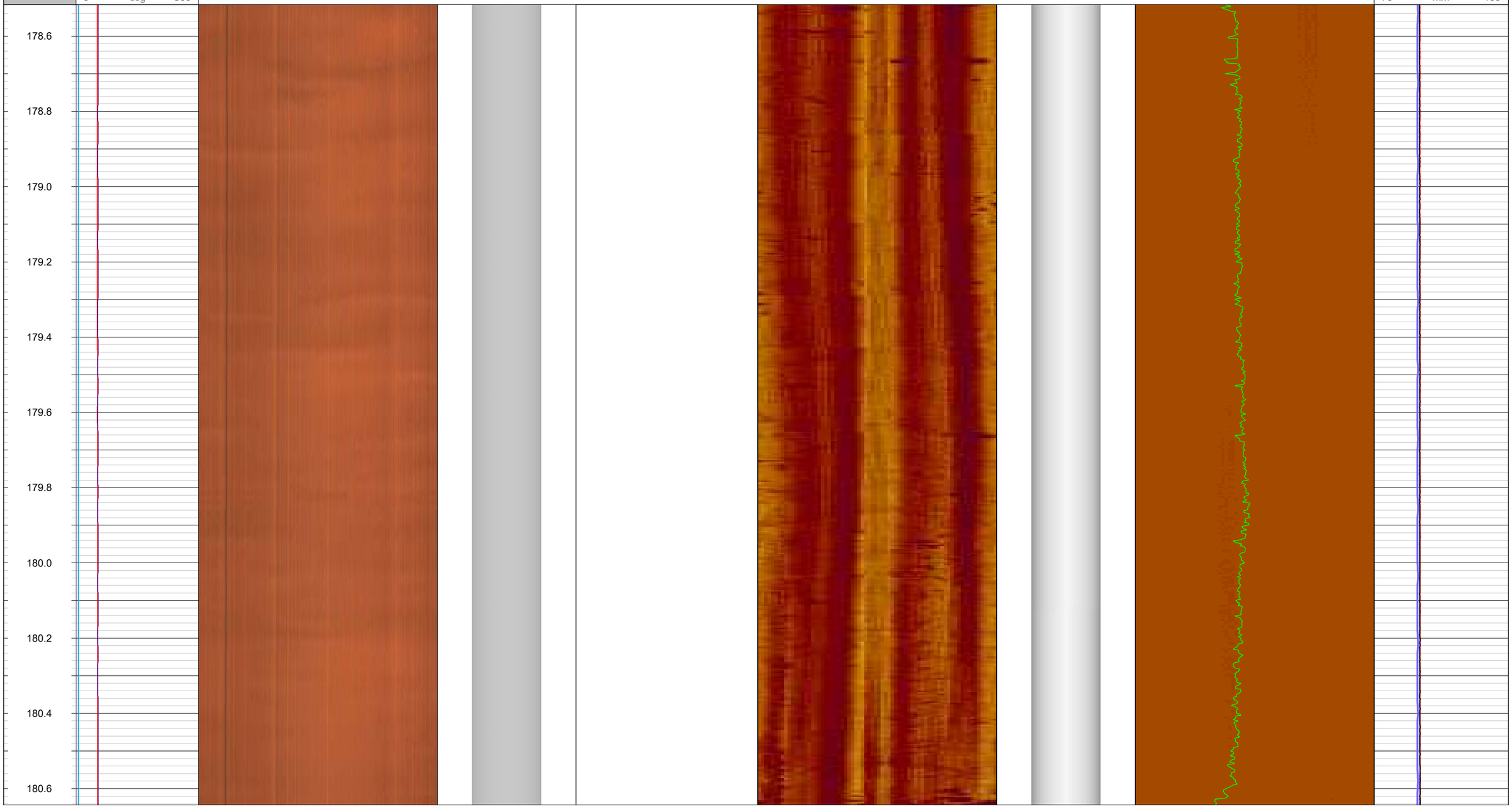
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



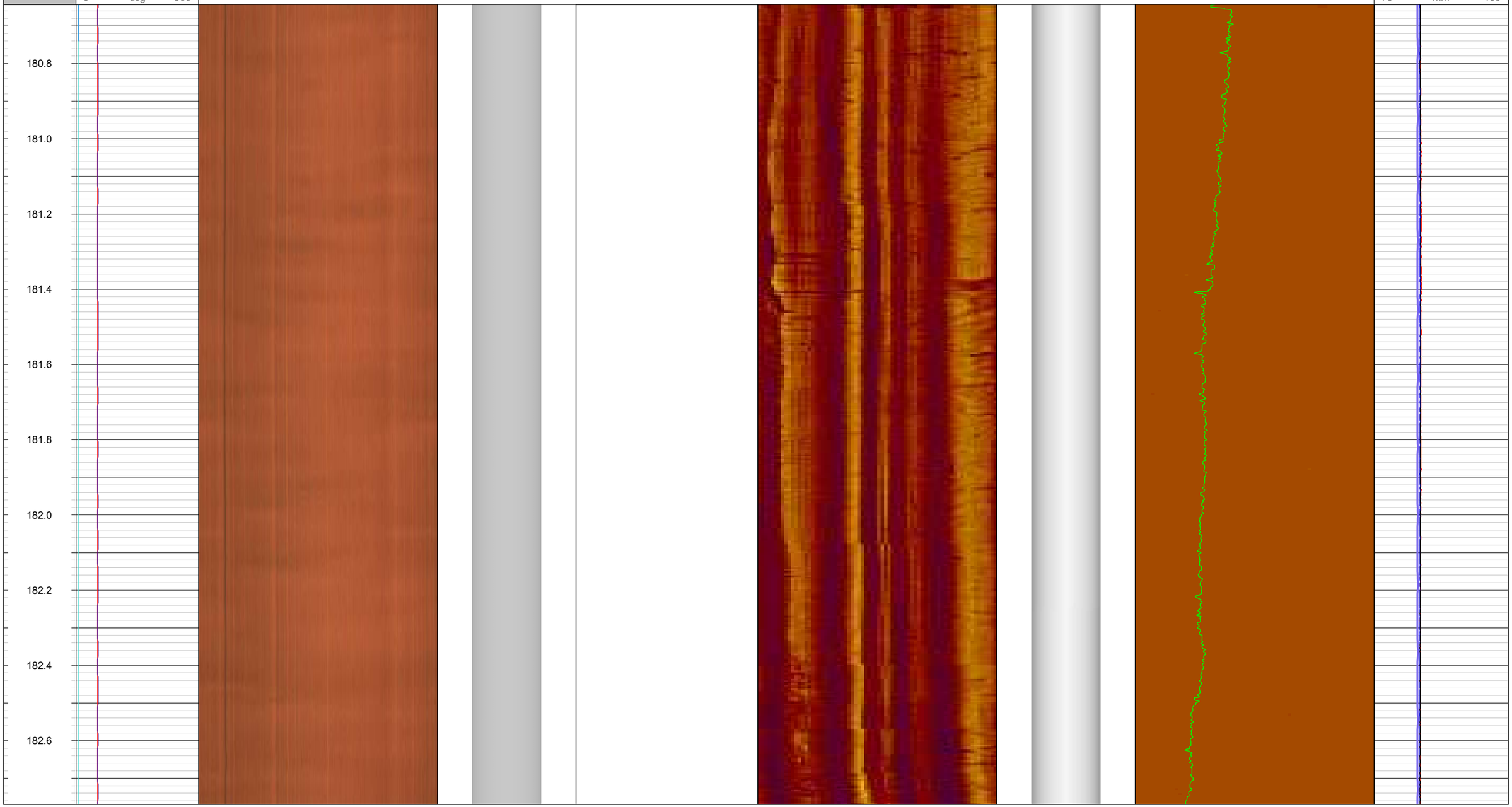
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

176.4
176.6
176.8
177.0
177.2
177.4
177.6
177.8
178.0
178.2
178.4

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



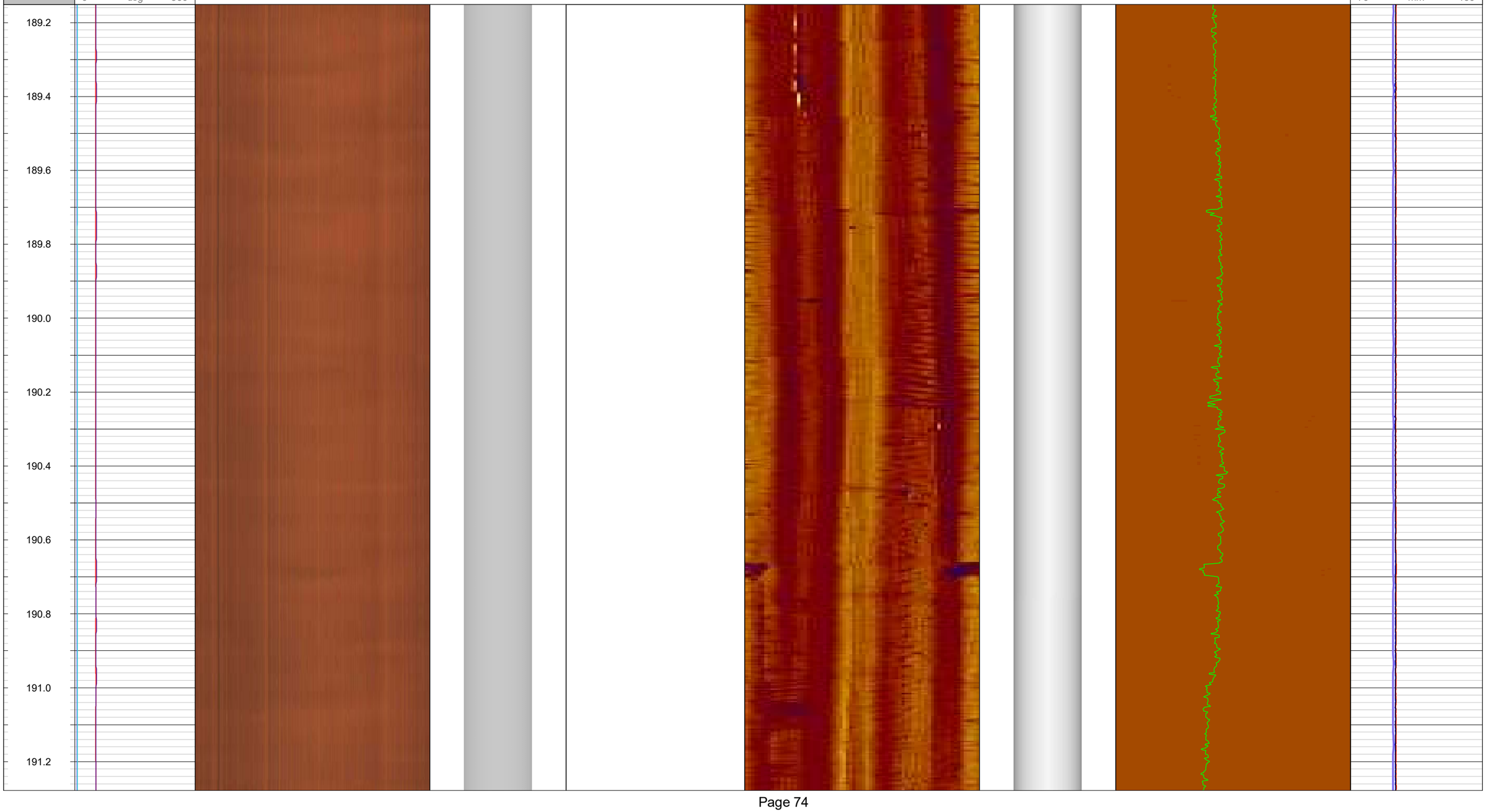
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
182.8								
183.0								
183.2								
183.4								
183.6								
183.8								
184.0								
184.2								
184.4								
184.6								
184.8								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

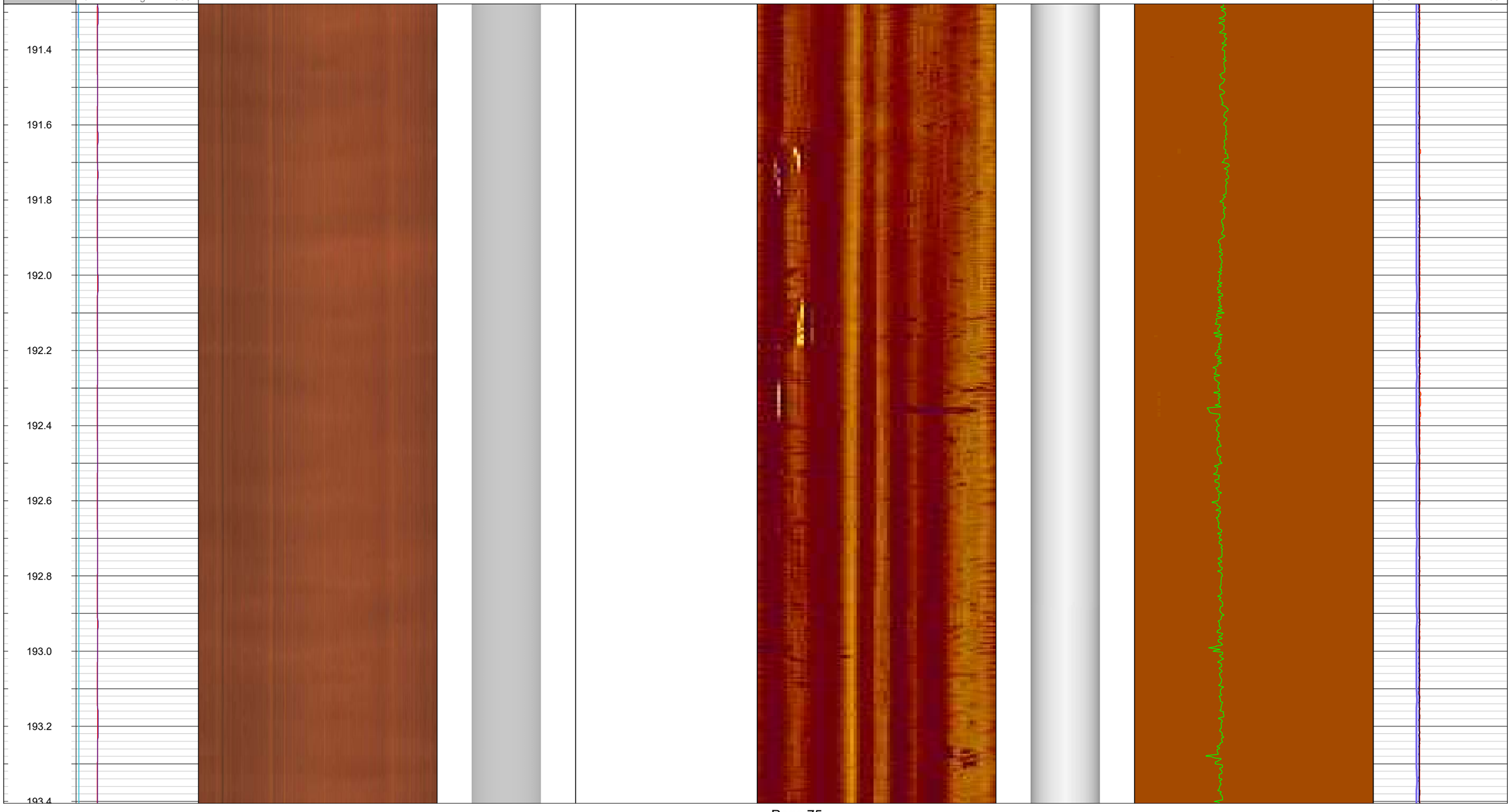
185.0
185.2
185.4
185.6
185.8
186.0
186.2
186.4
186.6
186.8
187.0

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
187.2								
187.4								
187.6								
187.8								
188.0								
188.2								
188.4								
188.6								
188.8								
189.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

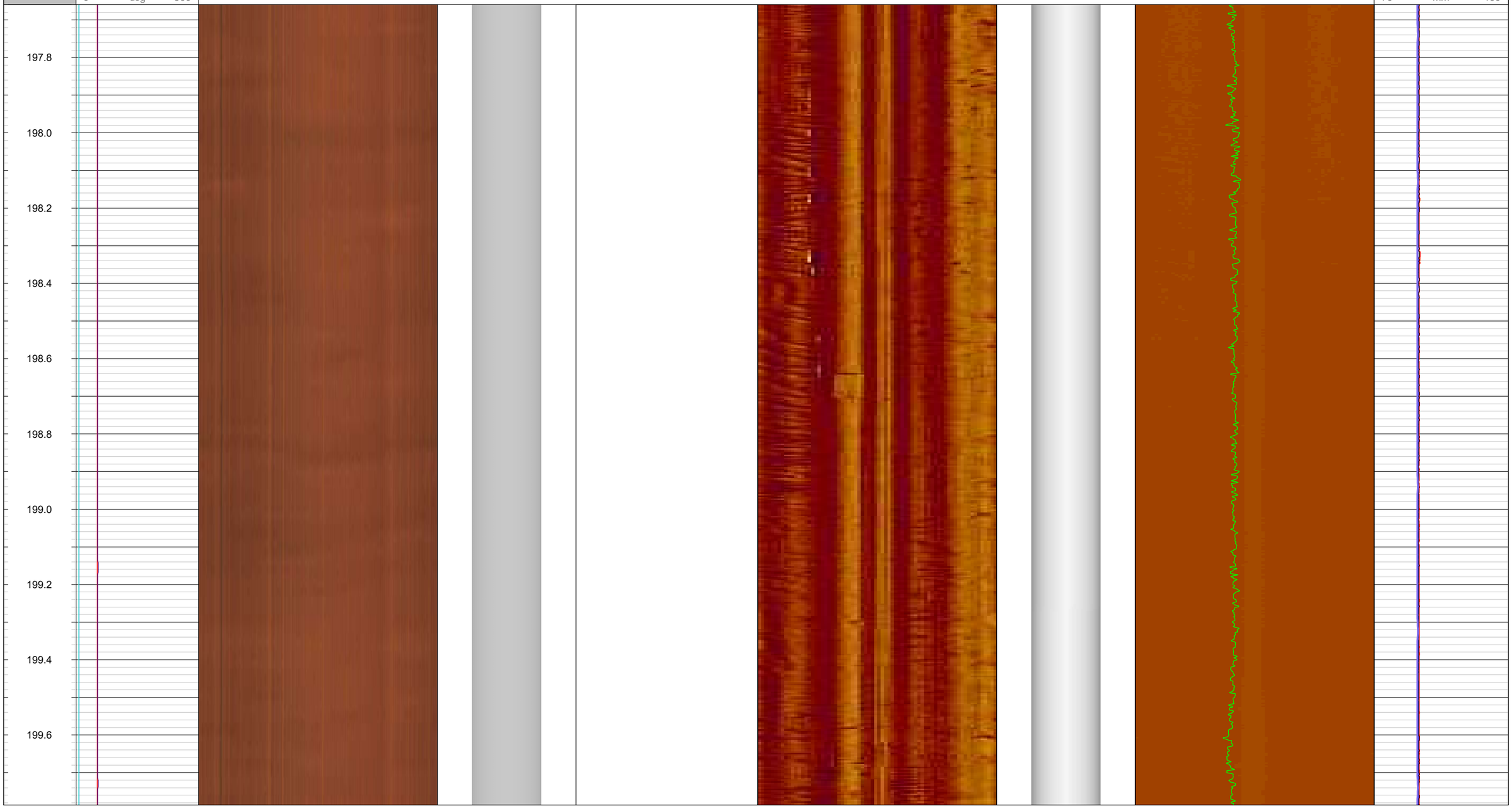


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

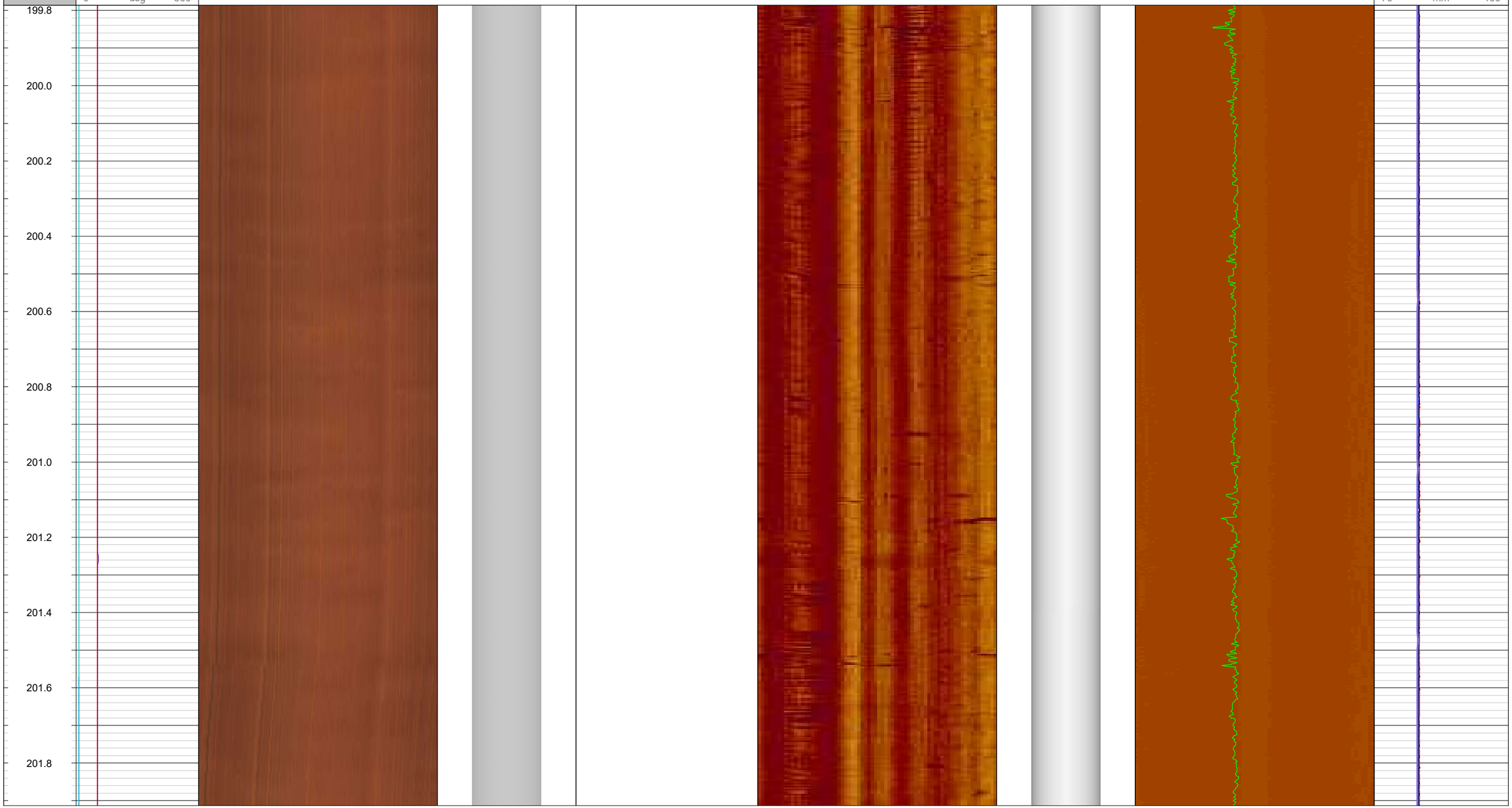
193.6
193.8
194.0
194.2
194.4
194.6
194.8
195.0
195.2
195.4

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

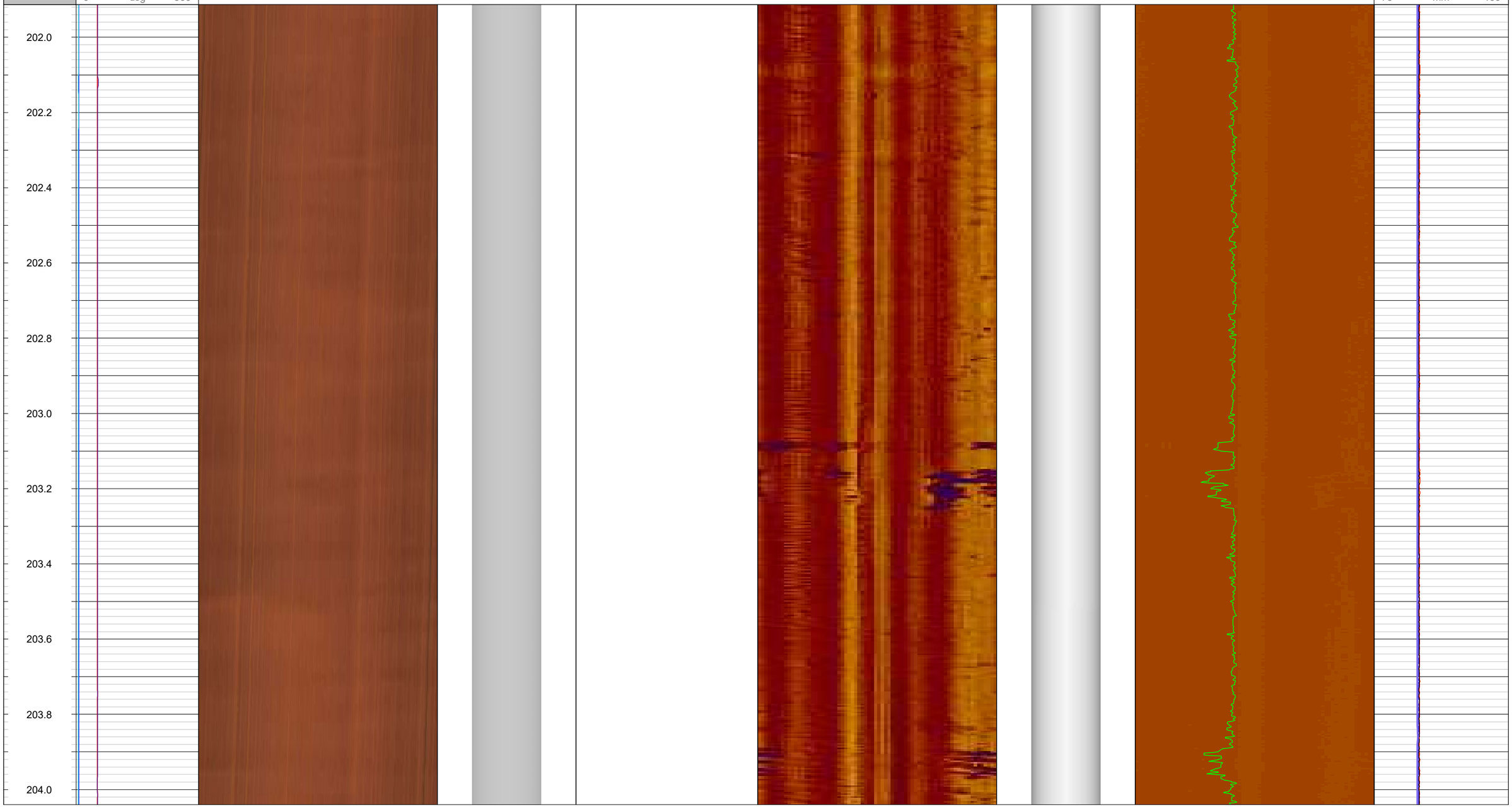
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



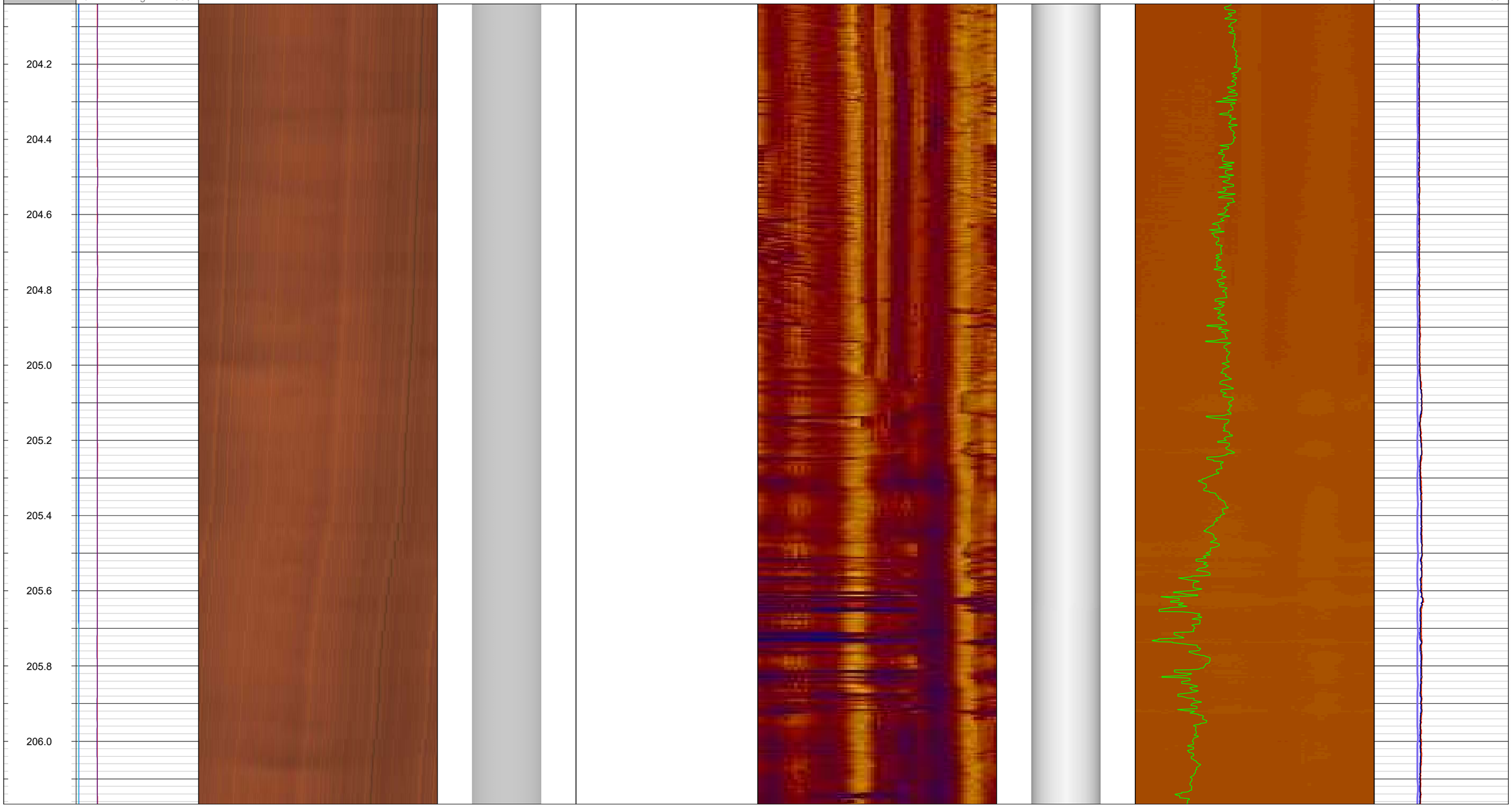
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



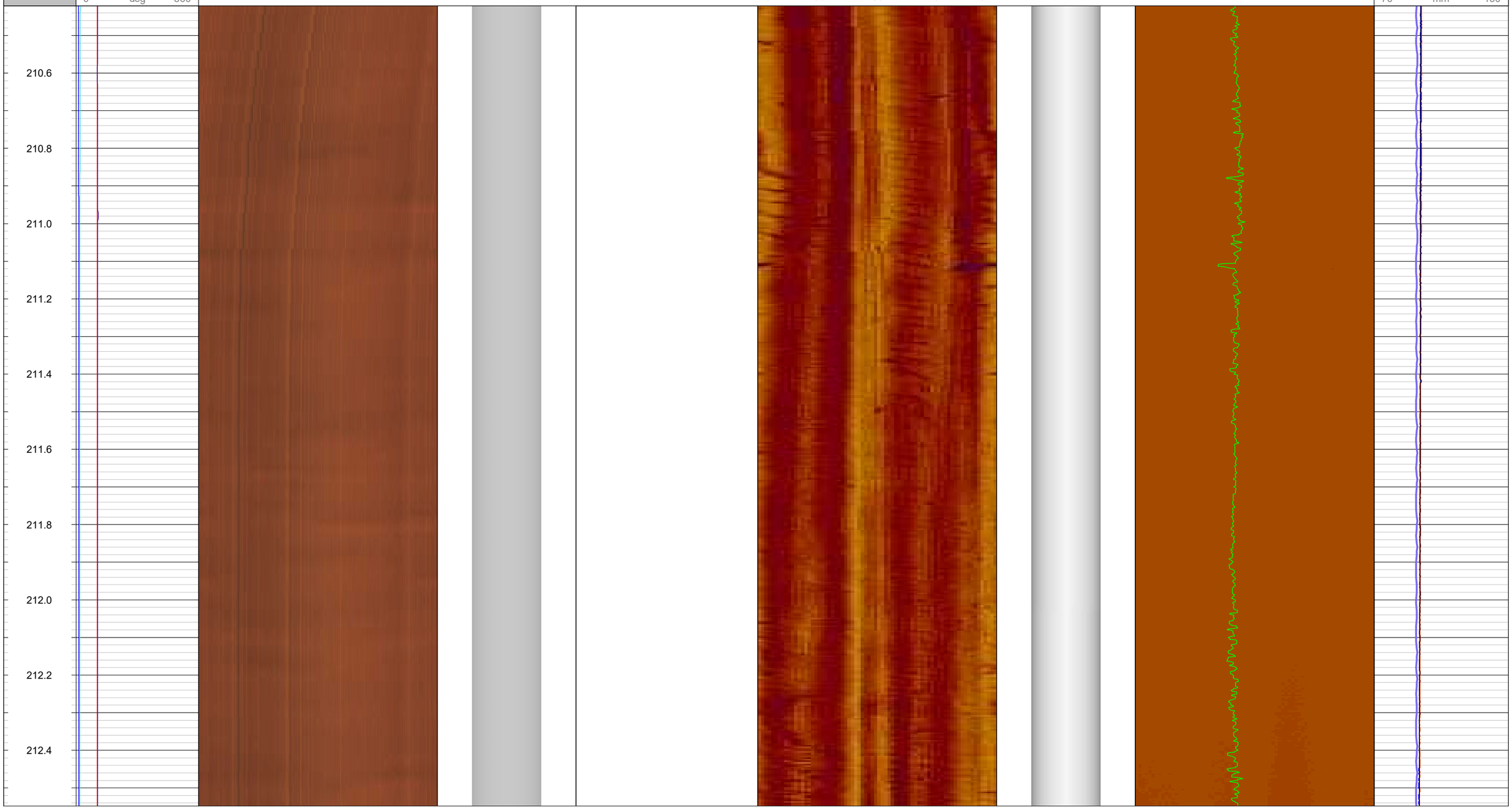
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis								Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000			Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
206.2										
206.4										
206.6										
206.8										
207.0										
207.2										
207.4										
207.6										
207.8										
208.0										
208.2										

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
208.4								
208.6								
208.8								
209.0								
209.2								
209.4								
209.6								
209.8								
210.0								
210.2								
210.4								

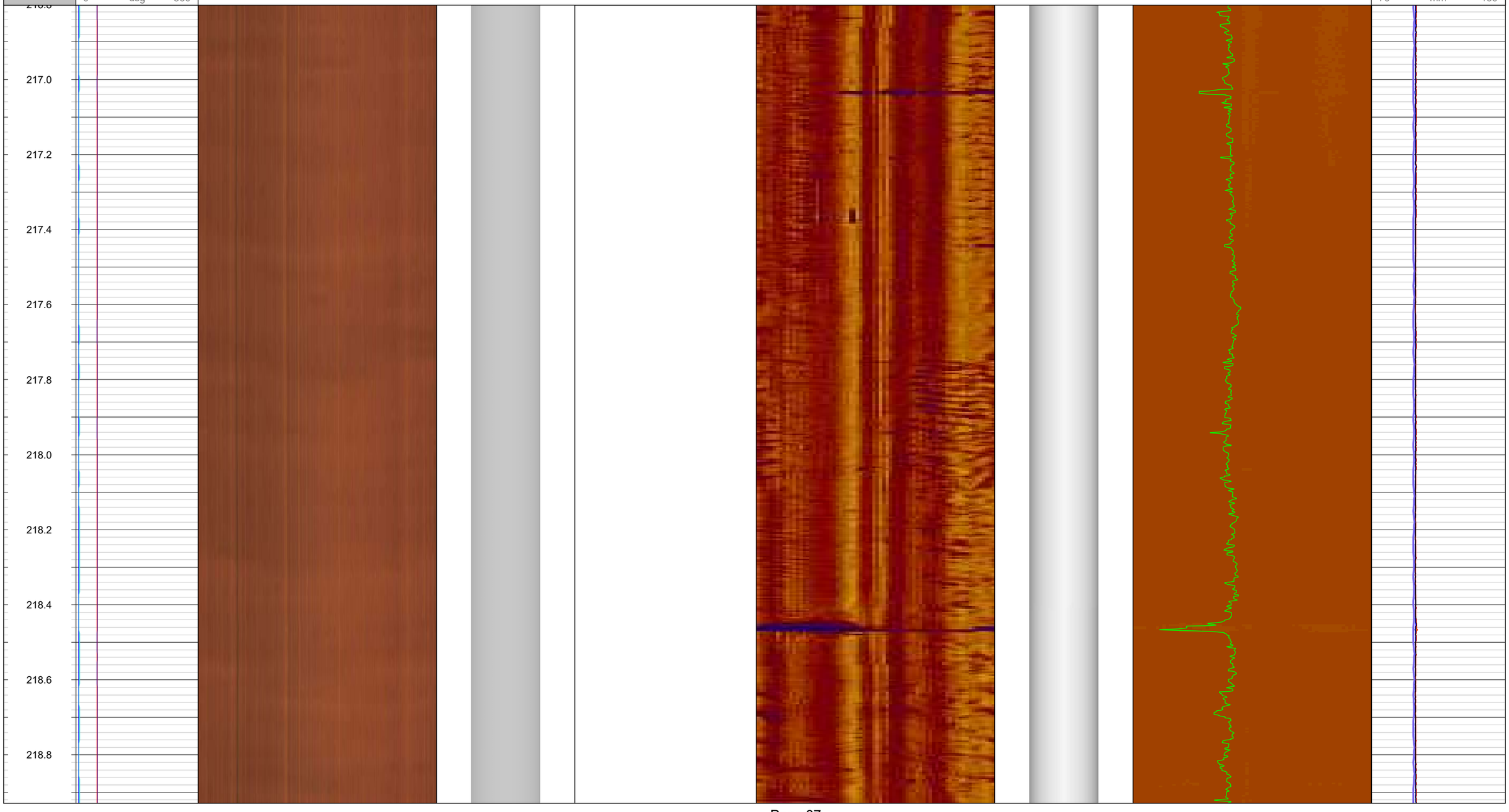
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



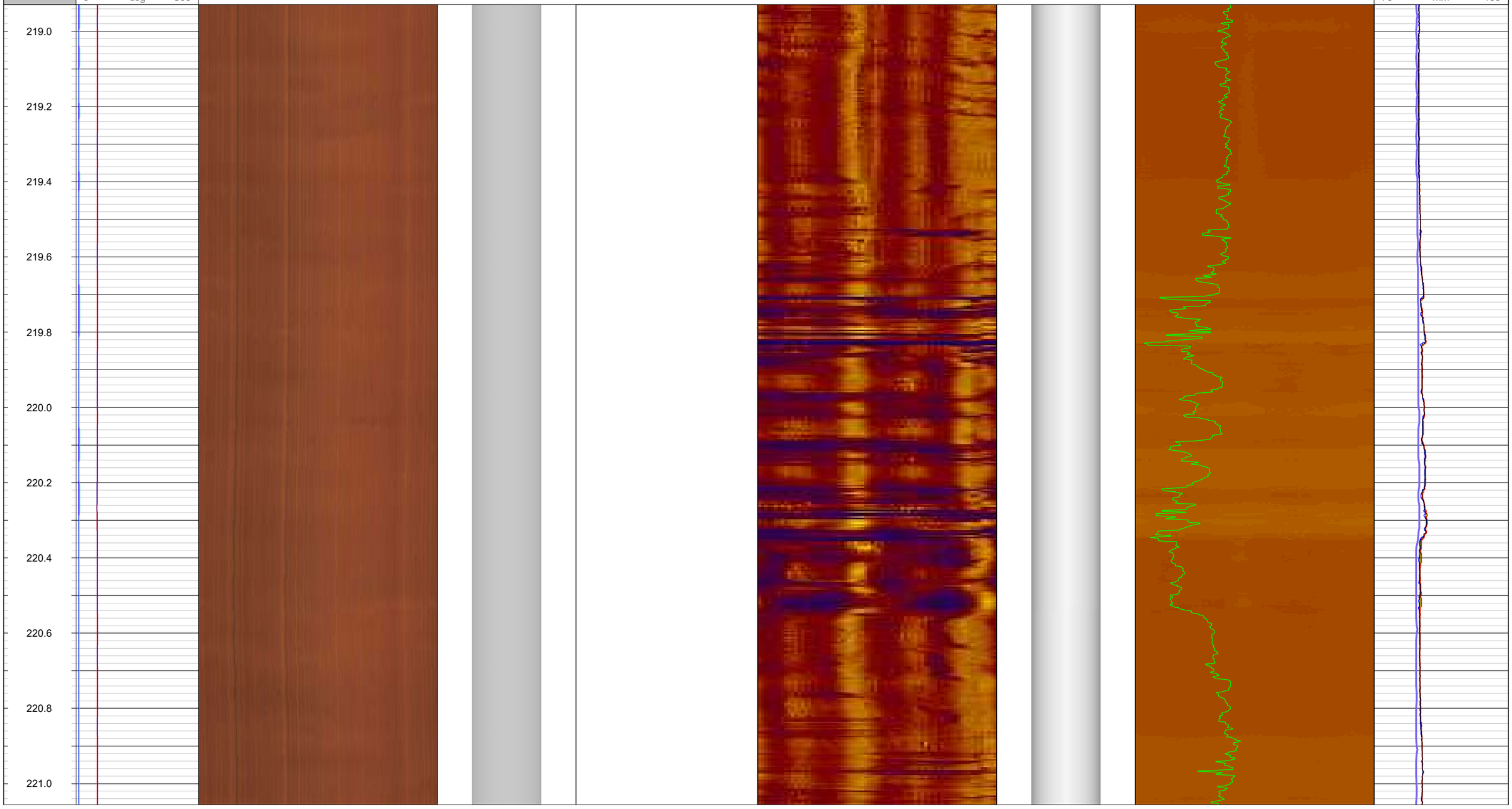
Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
212.6									
212.8									
213.0									
213.2									
213.4									
213.6									
213.8									
214.0									
214.2									
214.4									
214.6									

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

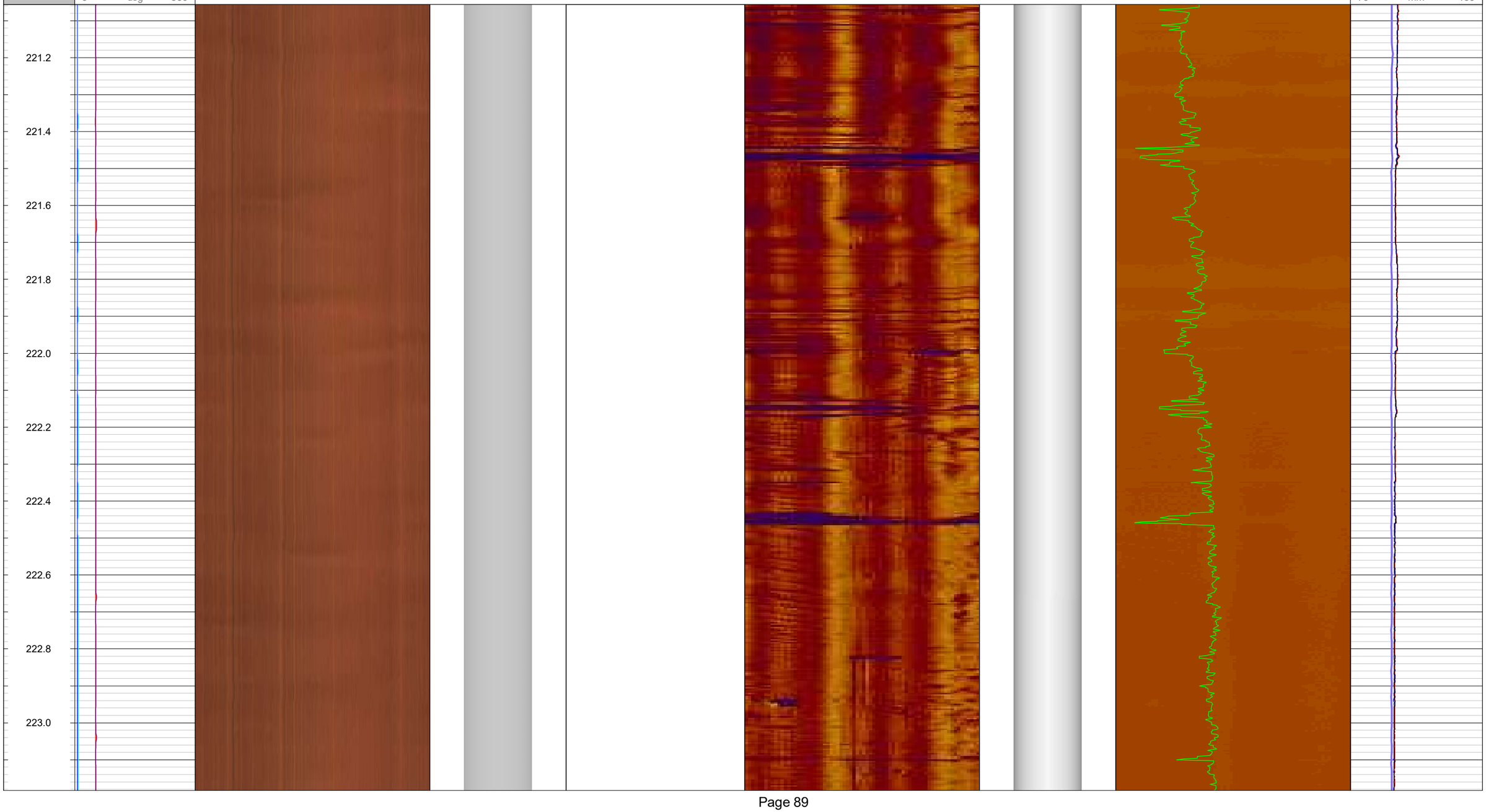
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



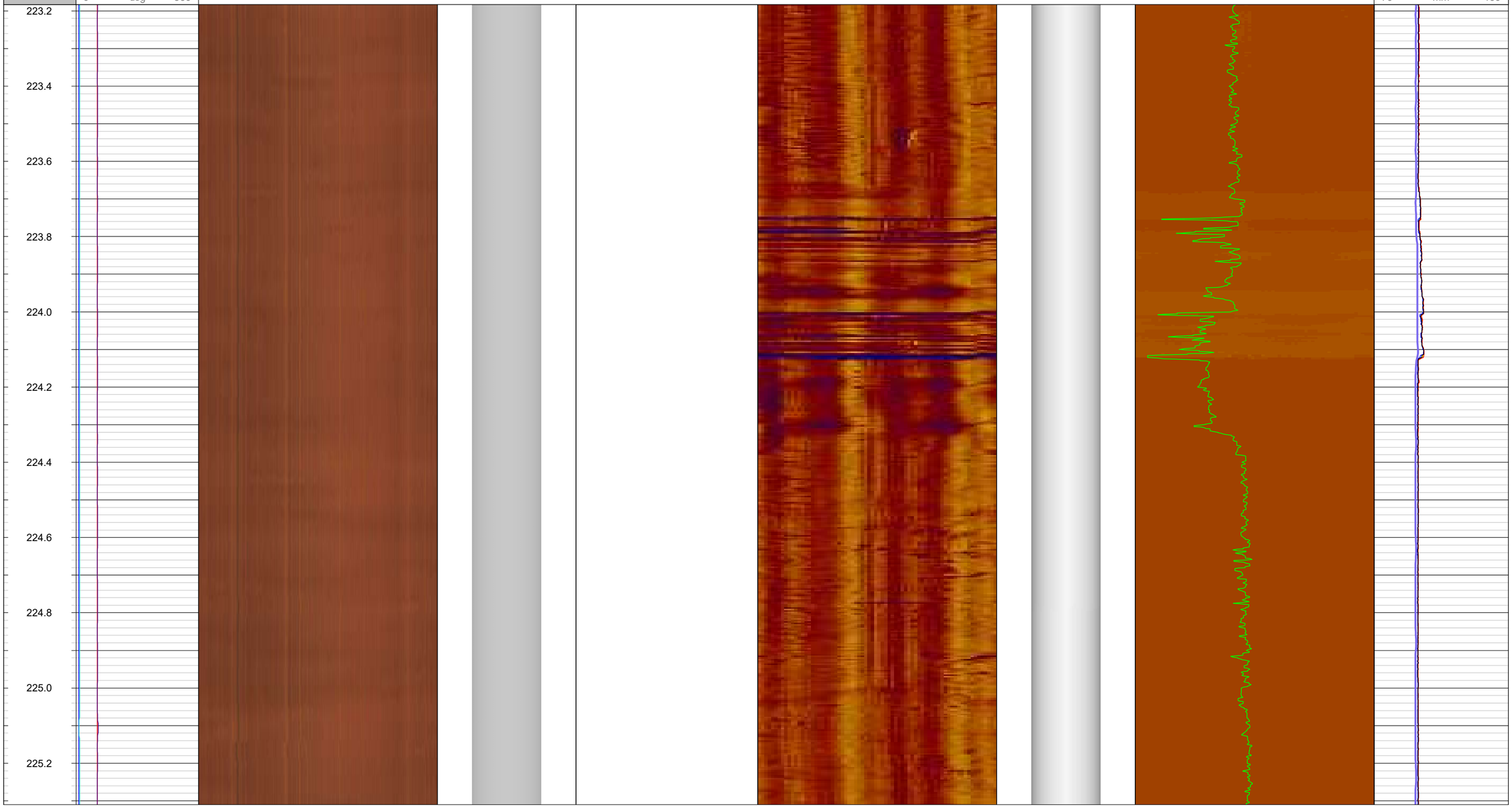
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

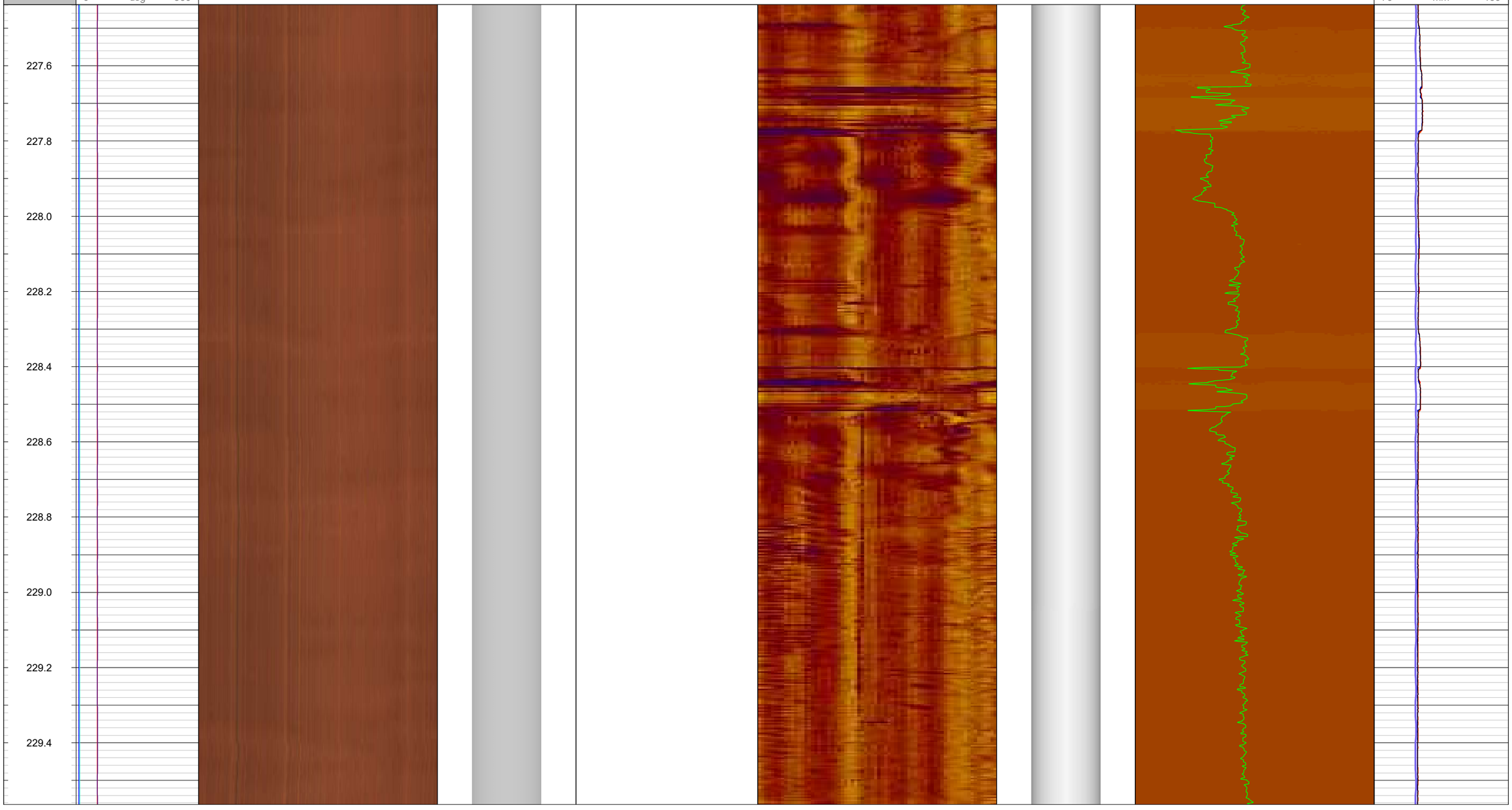


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

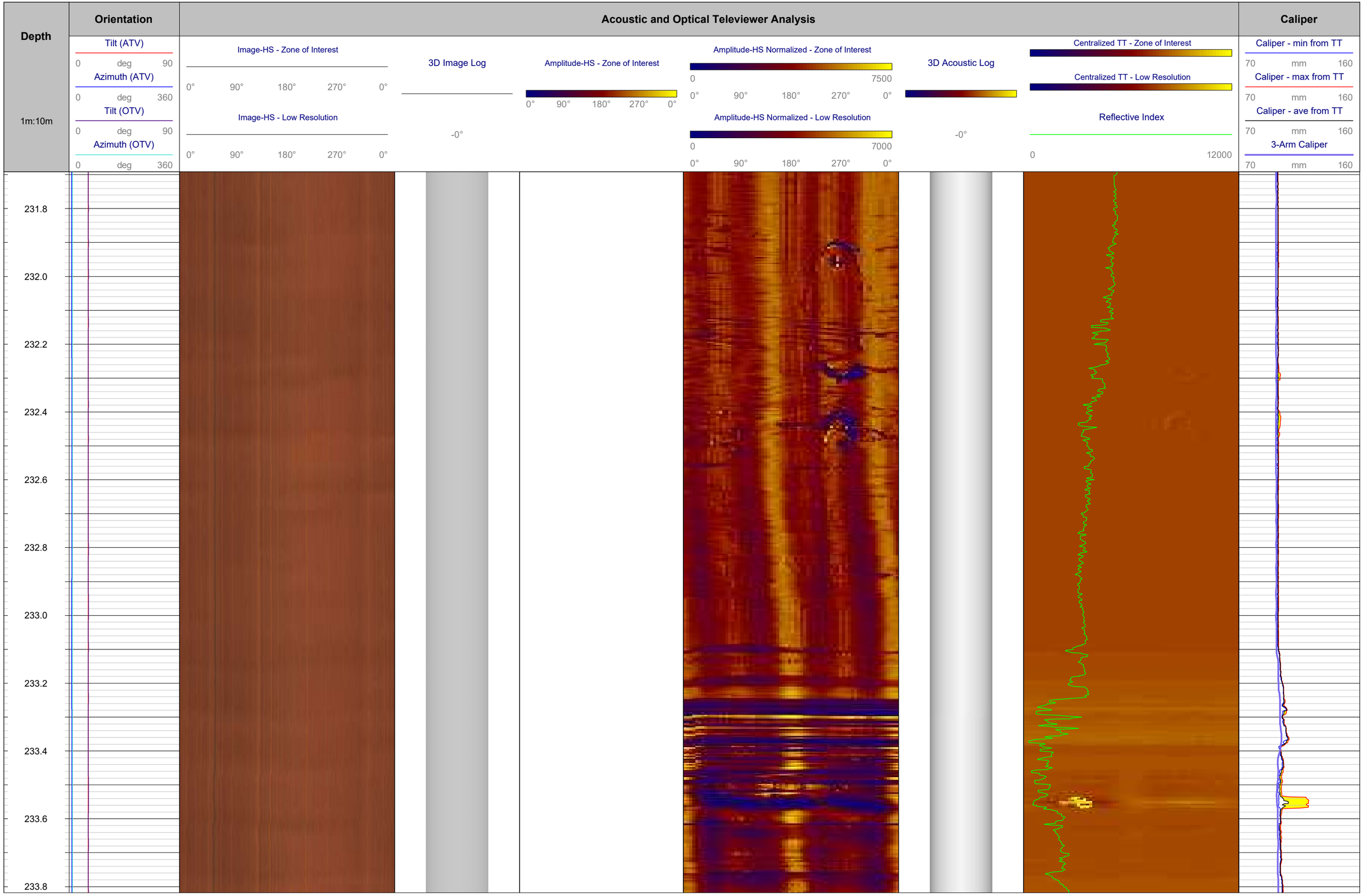


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
225.4								
225.6								
225.8								
226.0								
226.2								
226.4								
226.6								
226.8								
227.0								
227.2								
227.4								

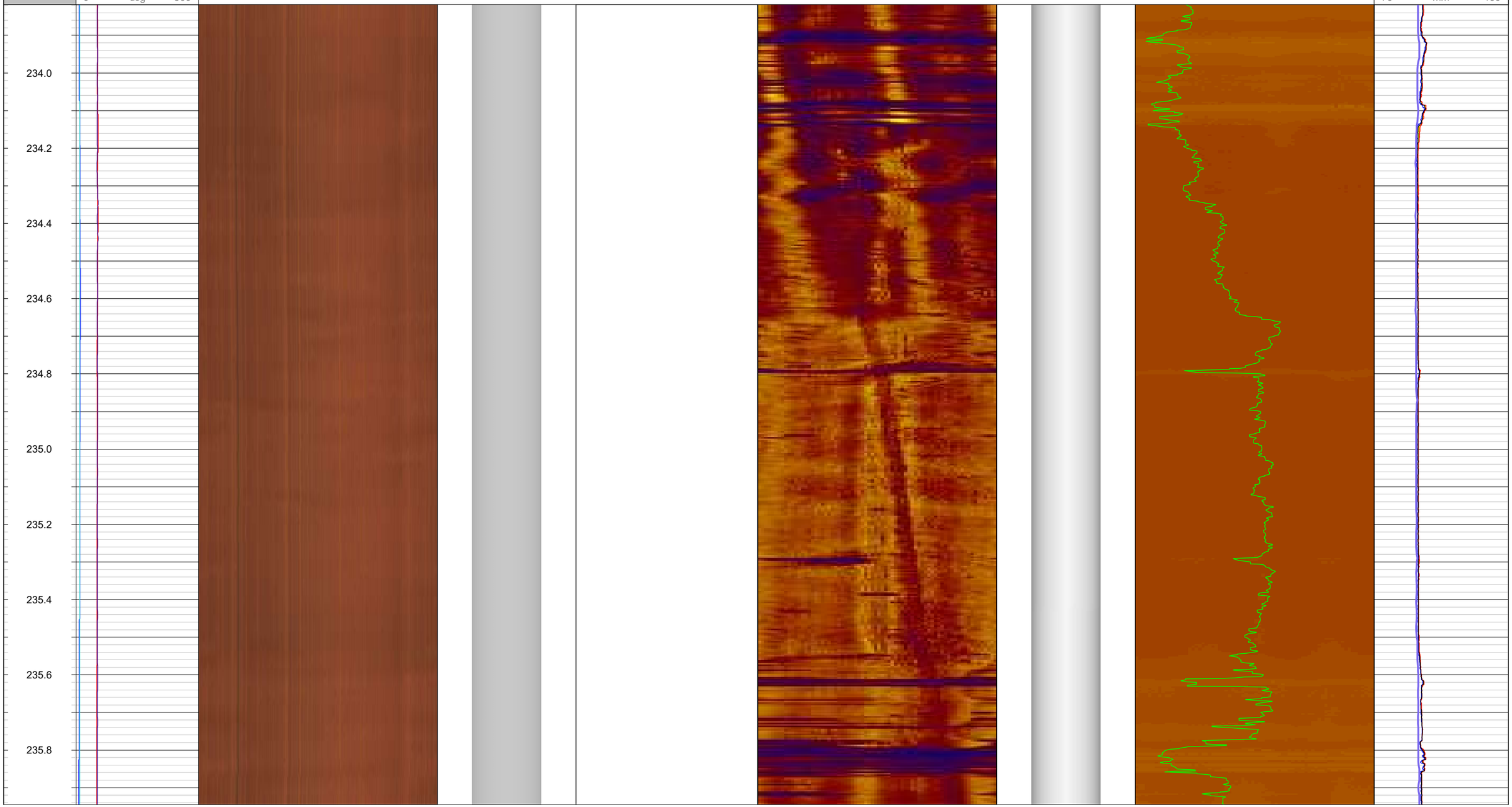
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
229.6								
229.8								
230.0								
230.2								
230.4								
230.6								
230.8								
231.0								
231.2								
231.4								
231.6								

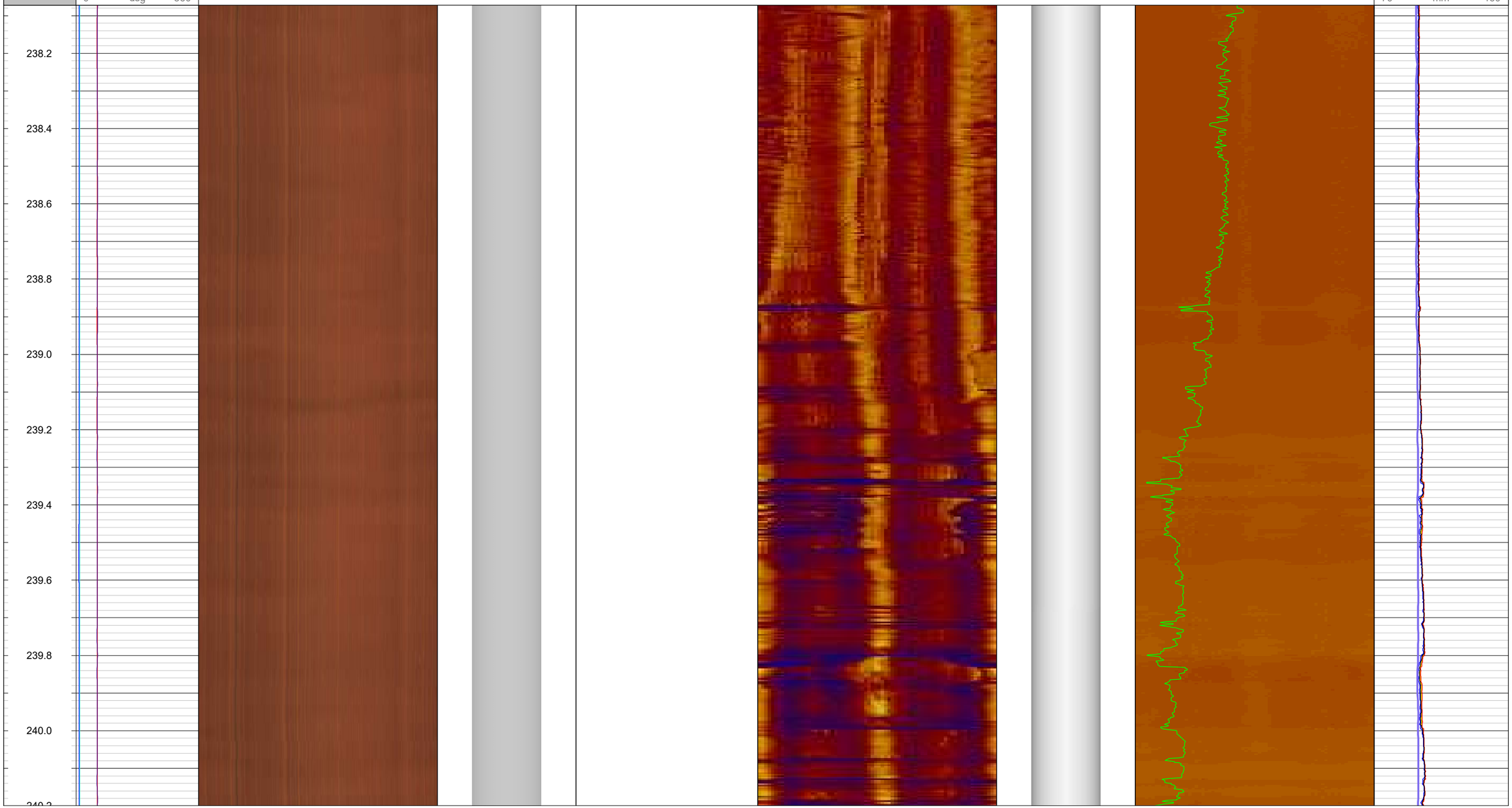

Depth
1m:10m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (OTV)
0 deg 90
Azimuth (OTV)
0 deg 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0 7500
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0 7000
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
Centralized TT - Low Resolution
Reflective Index
0 12000
Caliper
Caliper - min from TT
70 mm 160
Caliper - max from TT
70 mm 160
Caliper - ave from TT
70 mm 160
3-Arm Caliper
70 mm 160
231.8
232.0
232.2
232.4
232.6
232.8
233.0
233.2
233.4
233.6
233.8

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

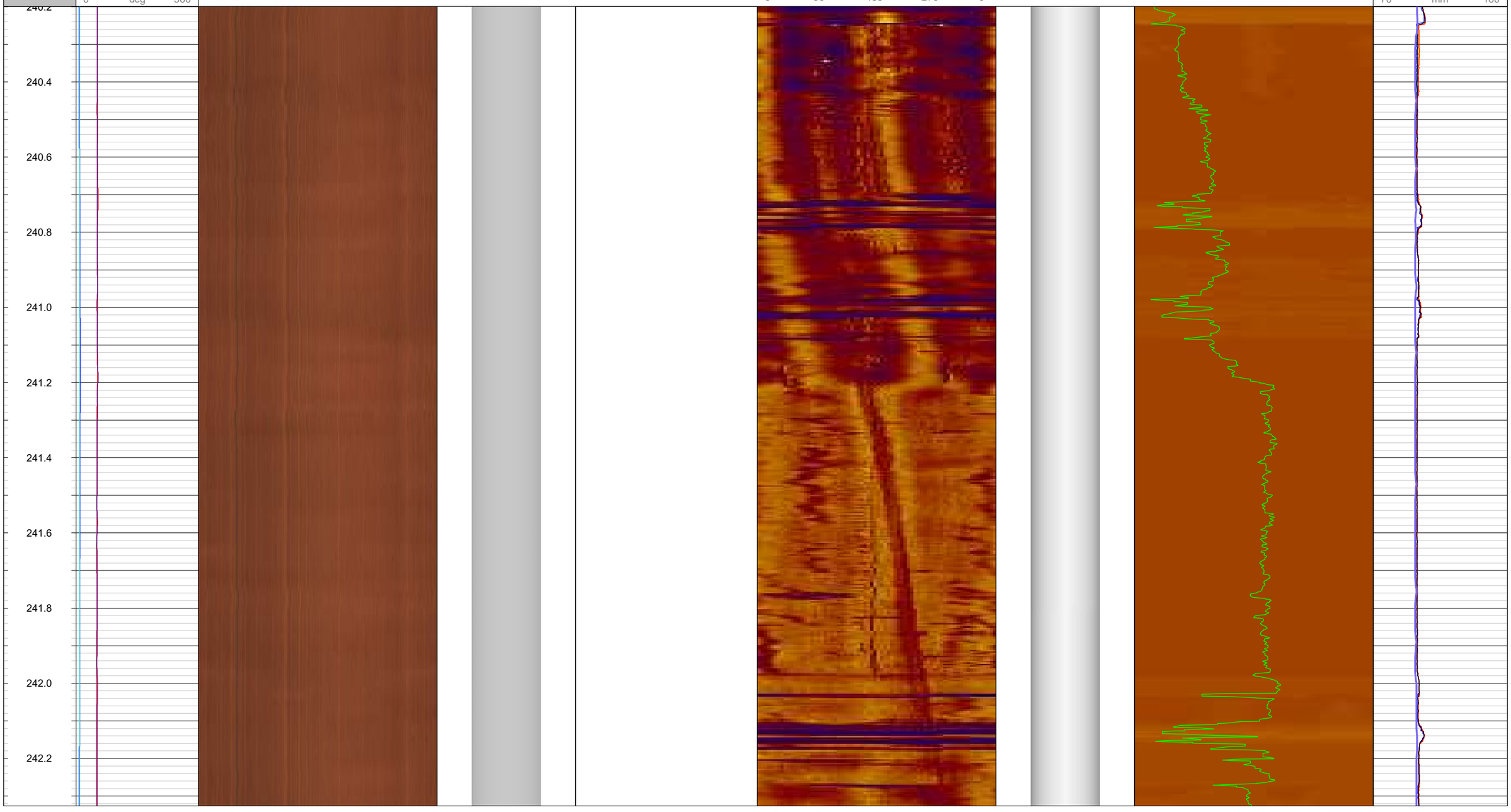


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
236.0								
236.2								
236.4								
236.6								
236.8								
237.0								
237.2								
237.4								
237.6								
237.8								
238.0								

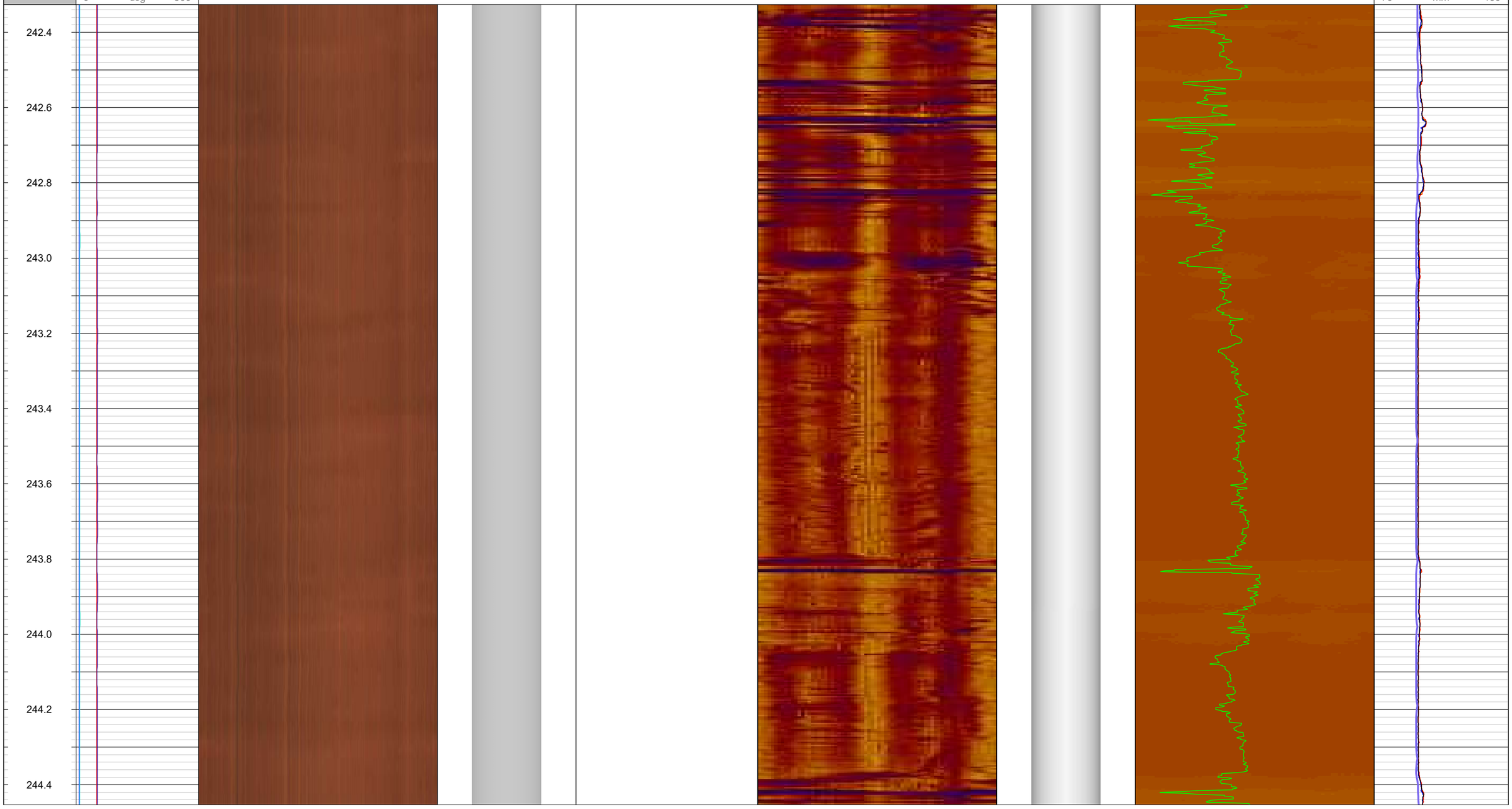
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



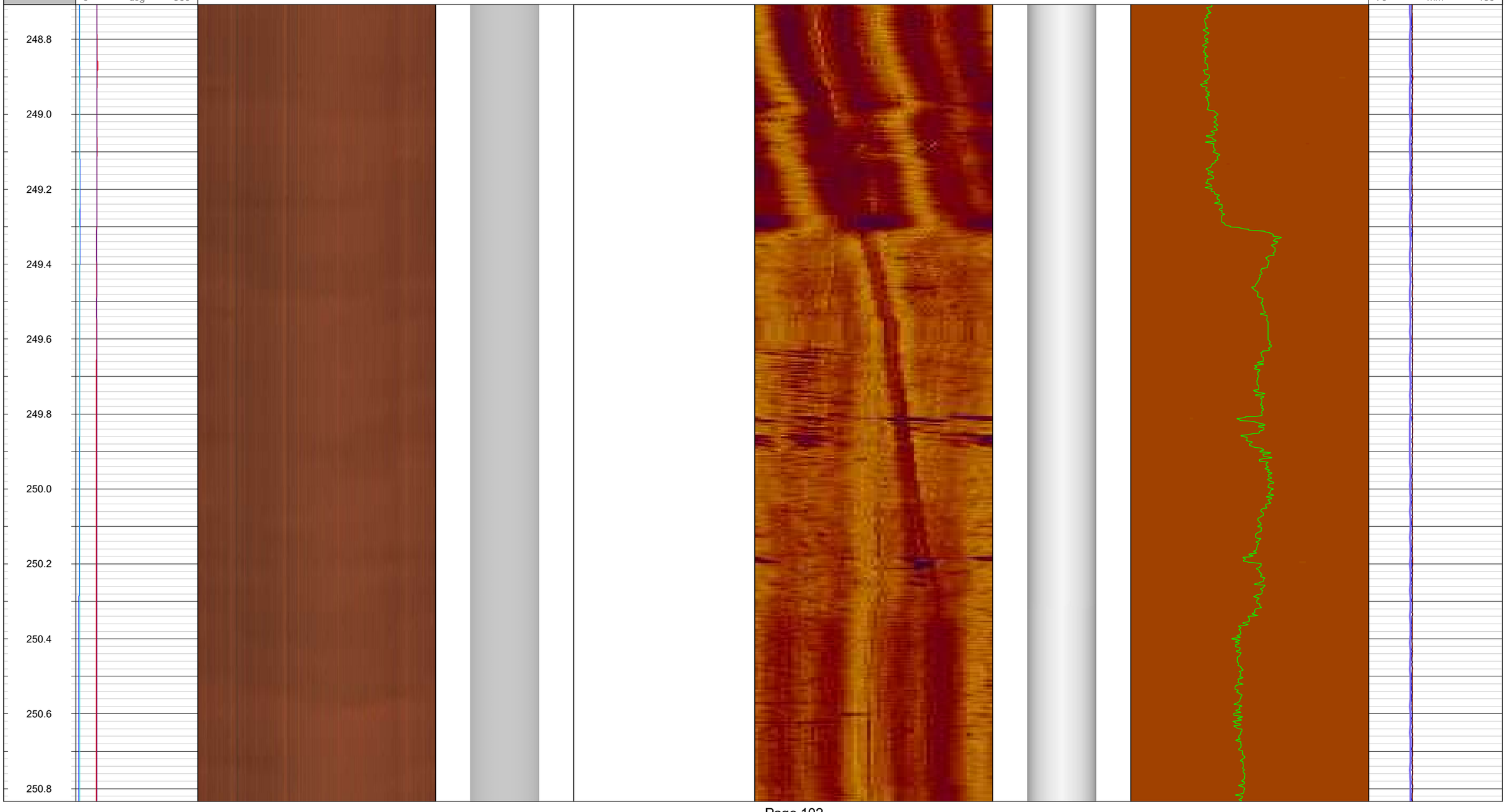
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
244.6								
244.8								
245.0								
245.2								
245.4								
245.6								
245.8								
246.0								
246.2								
246.4								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
246.6								
246.8								
247.0								
247.2								
247.4								
247.6								
247.8								
248.0								
248.2								
248.4								
248.6								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

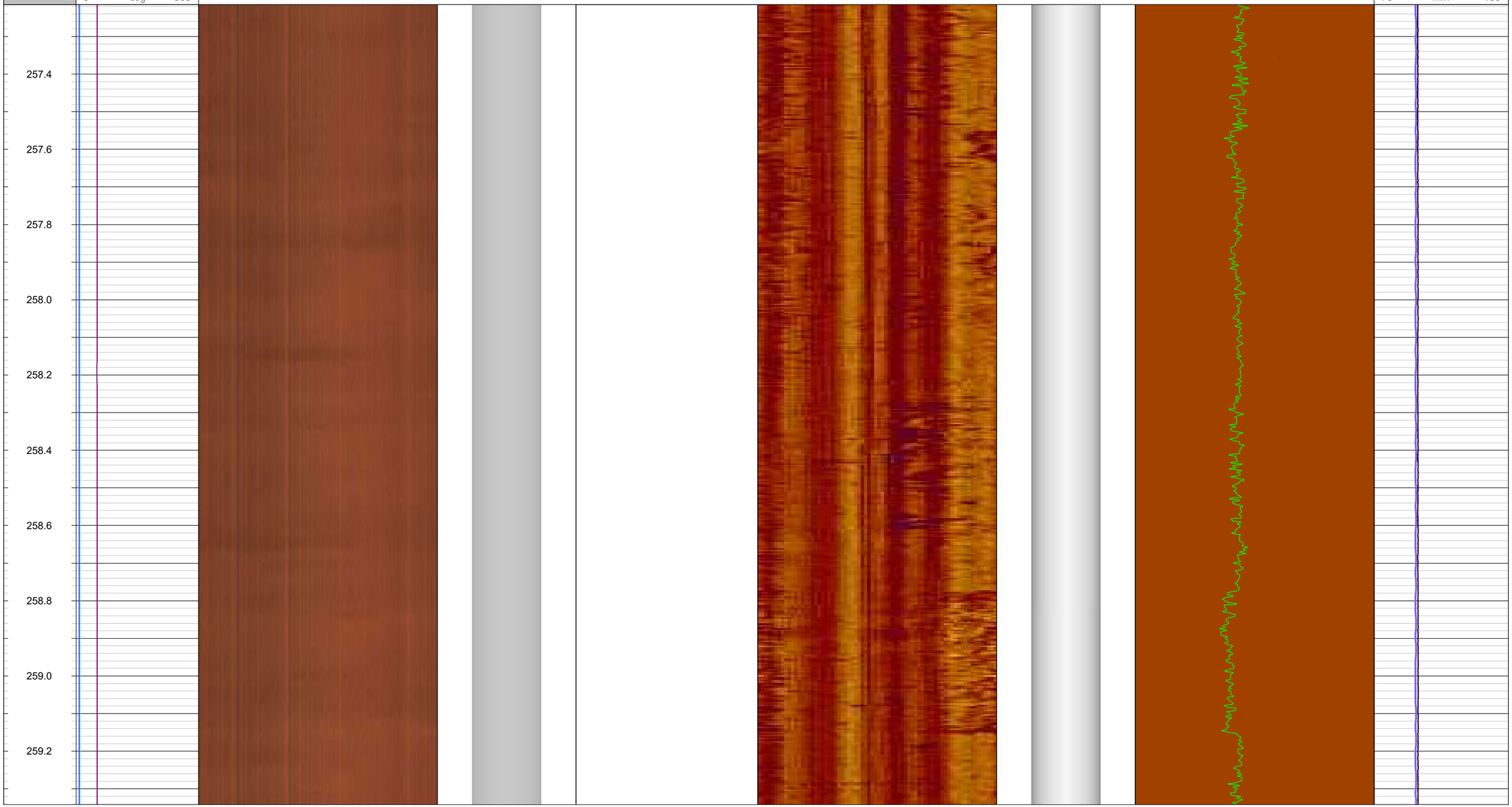


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
251.0								
251.2								
251.4								
251.6								
251.8								
252.0								
252.2								
252.4								
252.6								
252.8								

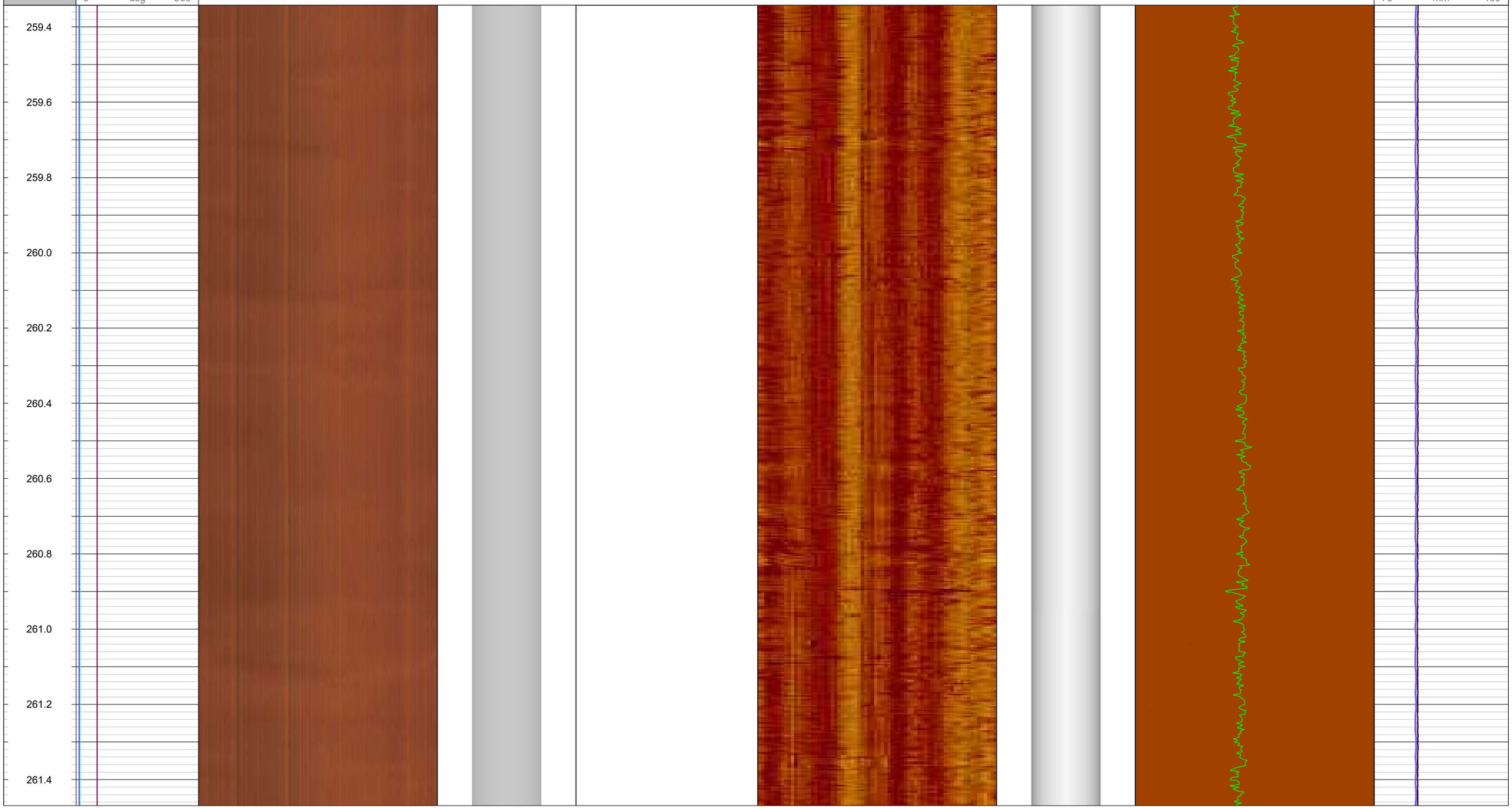
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
253.0								
253.2								
253.4								
253.6								
253.8								
254.0								
254.2								
254.4								
254.6								
254.8								
255.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
255.2									
255.4									
255.6									
255.8									
256.0									
256.2									
256.4									
256.6									
256.8									
257.0									
257.2									

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
1m:10m									

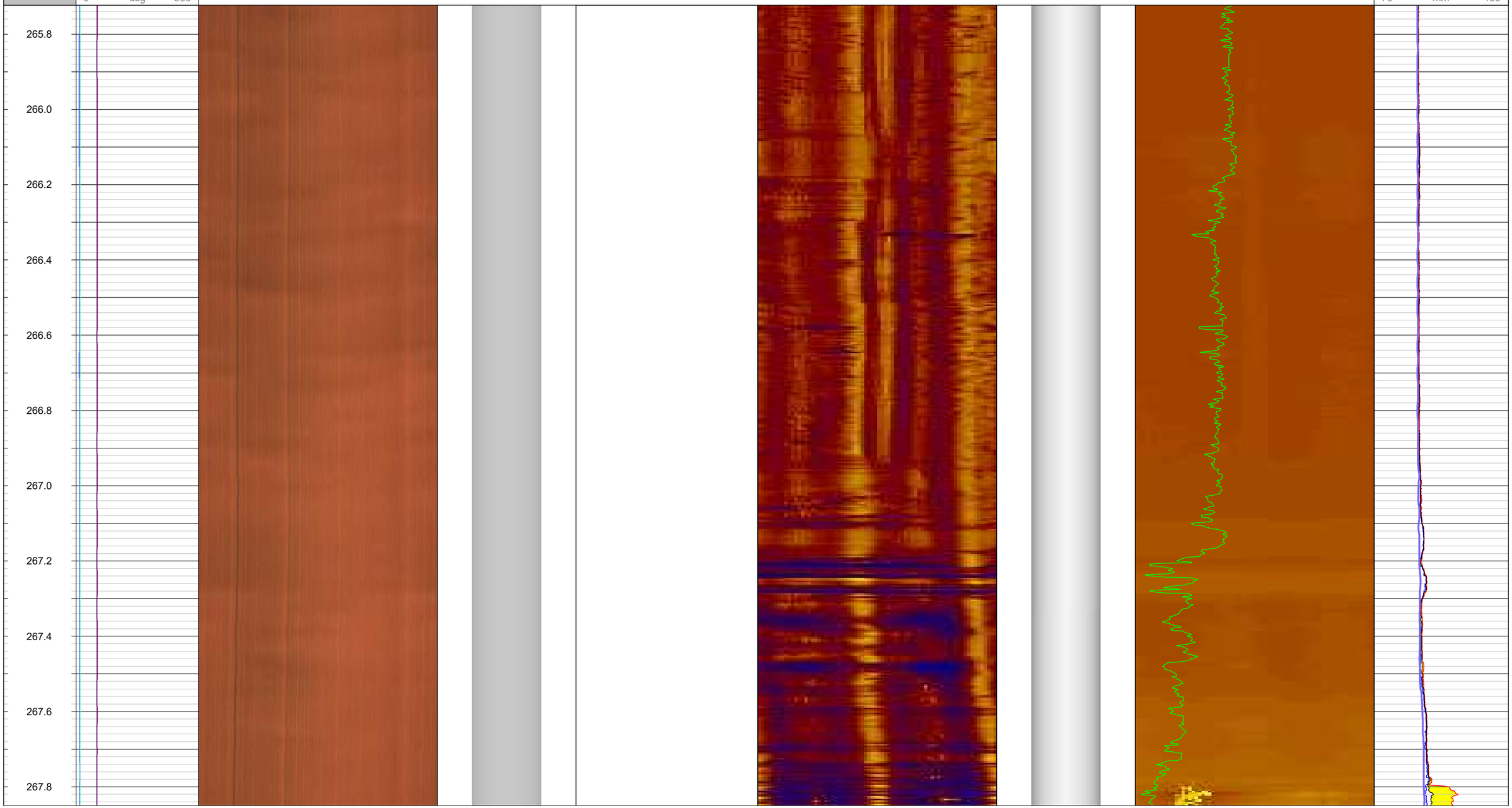


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
261.6								
261.8								
262.0								
262.2								
262.4								
262.6								
262.8								
263.0								
263.2								
263.4								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

263.6
263.8
264.0
264.2
264.4
264.6
264.8
265.0
265.2
265.4
265.6

Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

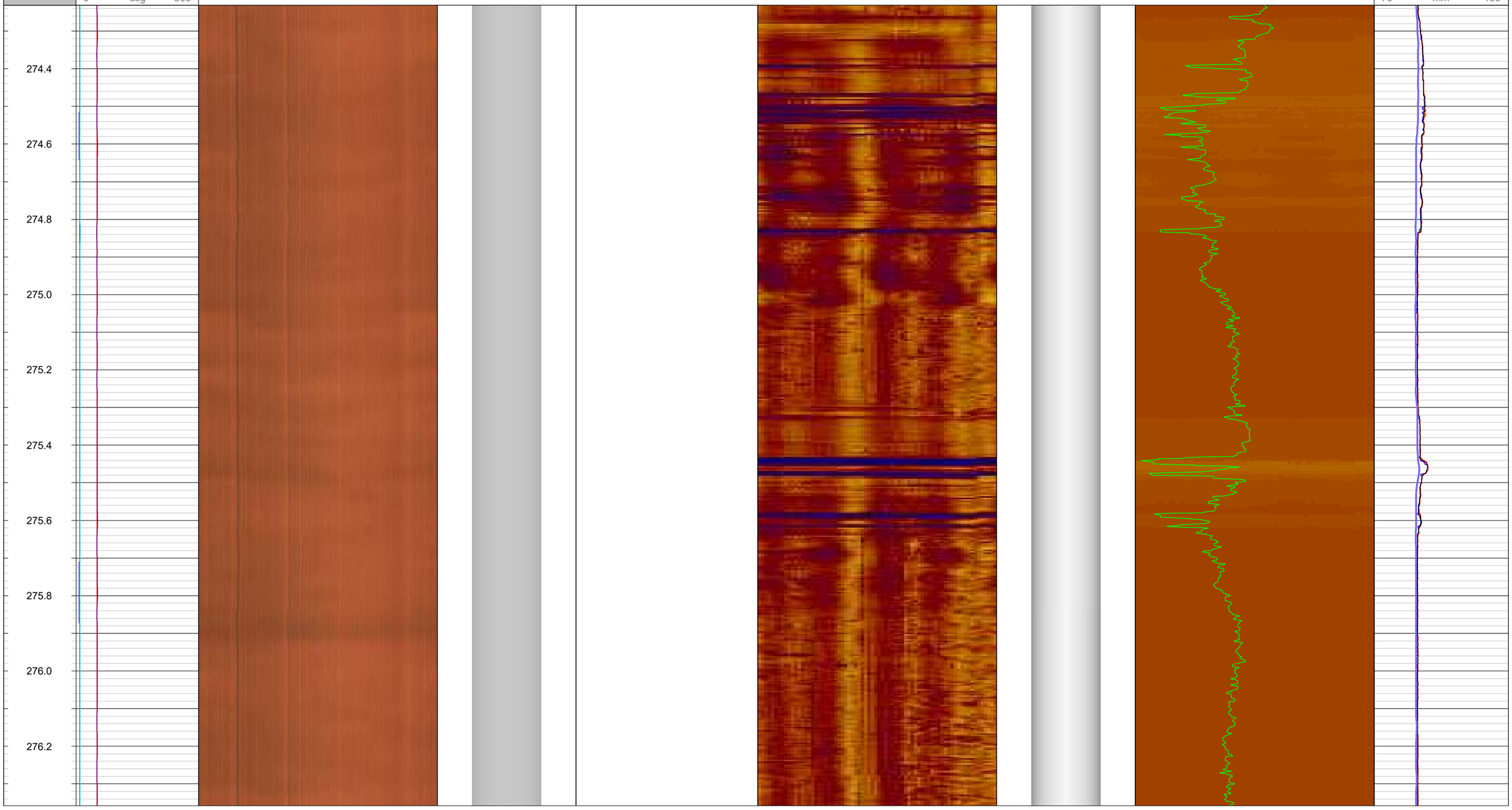


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
268.0								
268.2								
268.4								
268.6								
268.8								
269.0								
269.2								
269.4								
269.6								
269.8								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
270.0								
270.2								
270.4								
270.6								
270.8								
271.0								
271.2								
271.4								
271.6								
271.8								
272.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
272.2								
272.4								
272.6								
272.8								
273.0								
273.2								
273.4								
273.6								
273.8								
274.0								
274.2								

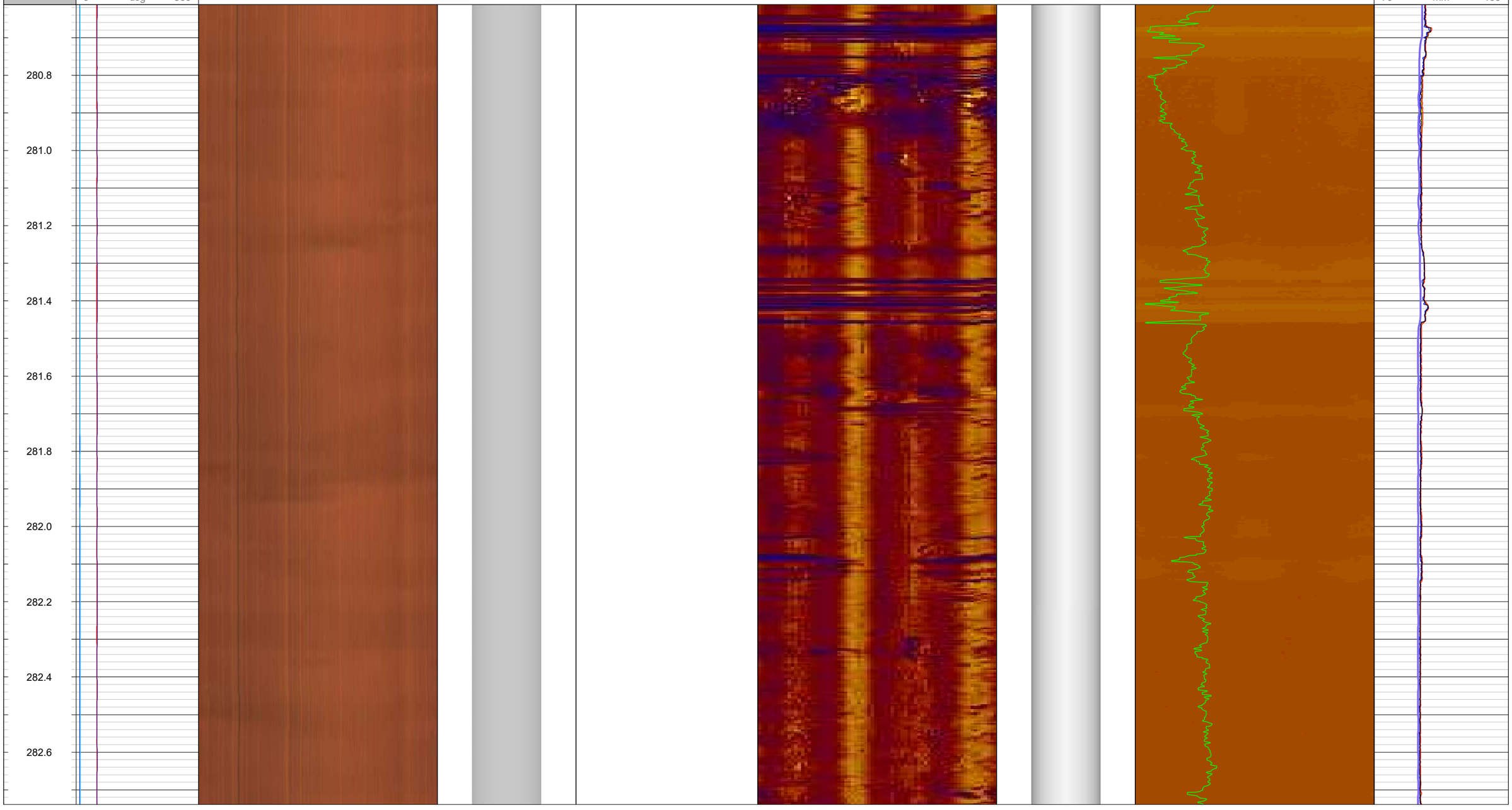
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
276.4								
276.6								
276.8								
277.0								
277.2								
277.4								
277.6								
277.8								
278.0								
278.2								
278.4								

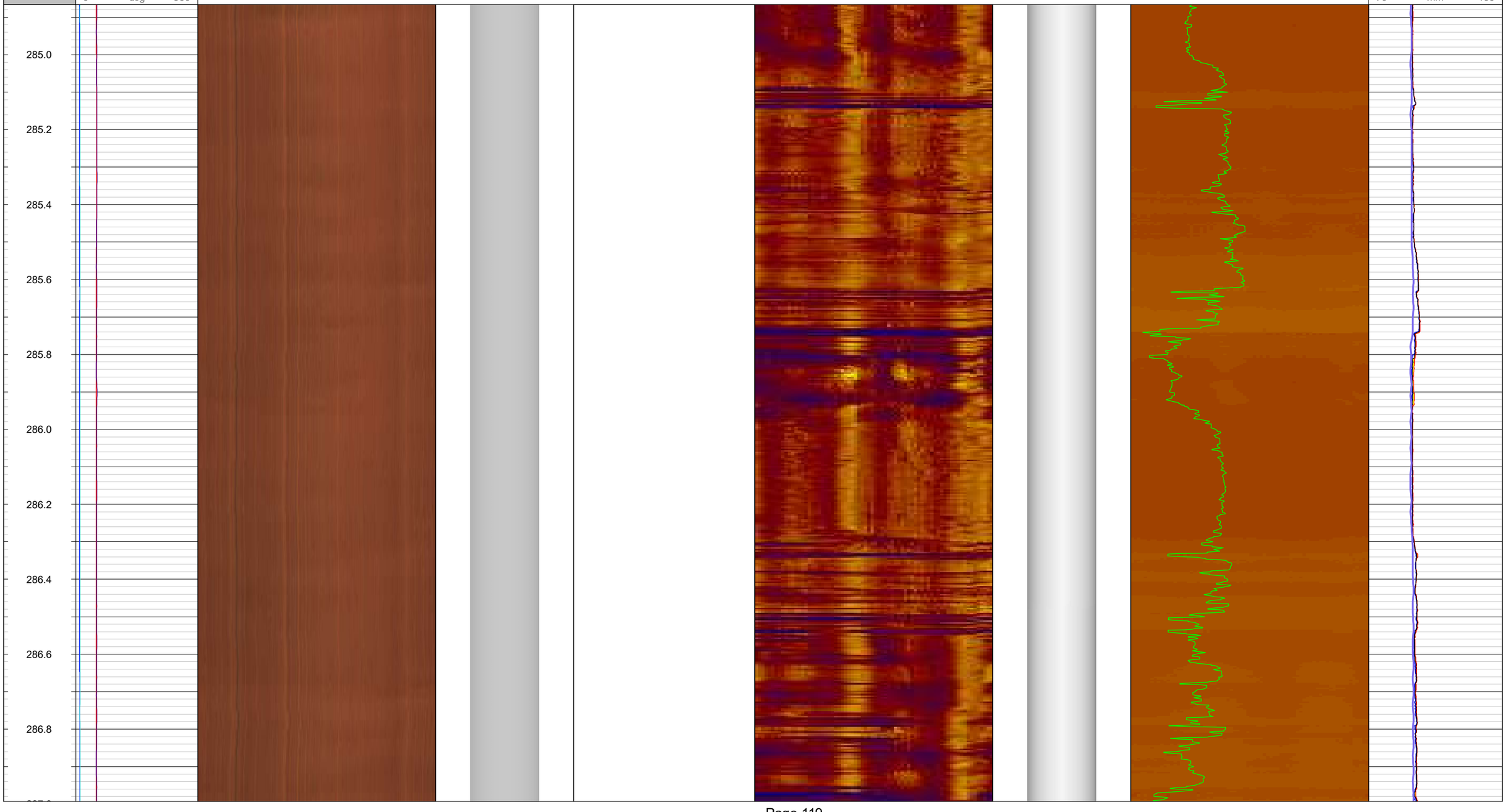
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
278.6								
278.8								
279.0								
279.2								
279.4								
279.6								
279.8								
280.0								
280.2								
280.4								
280.6								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

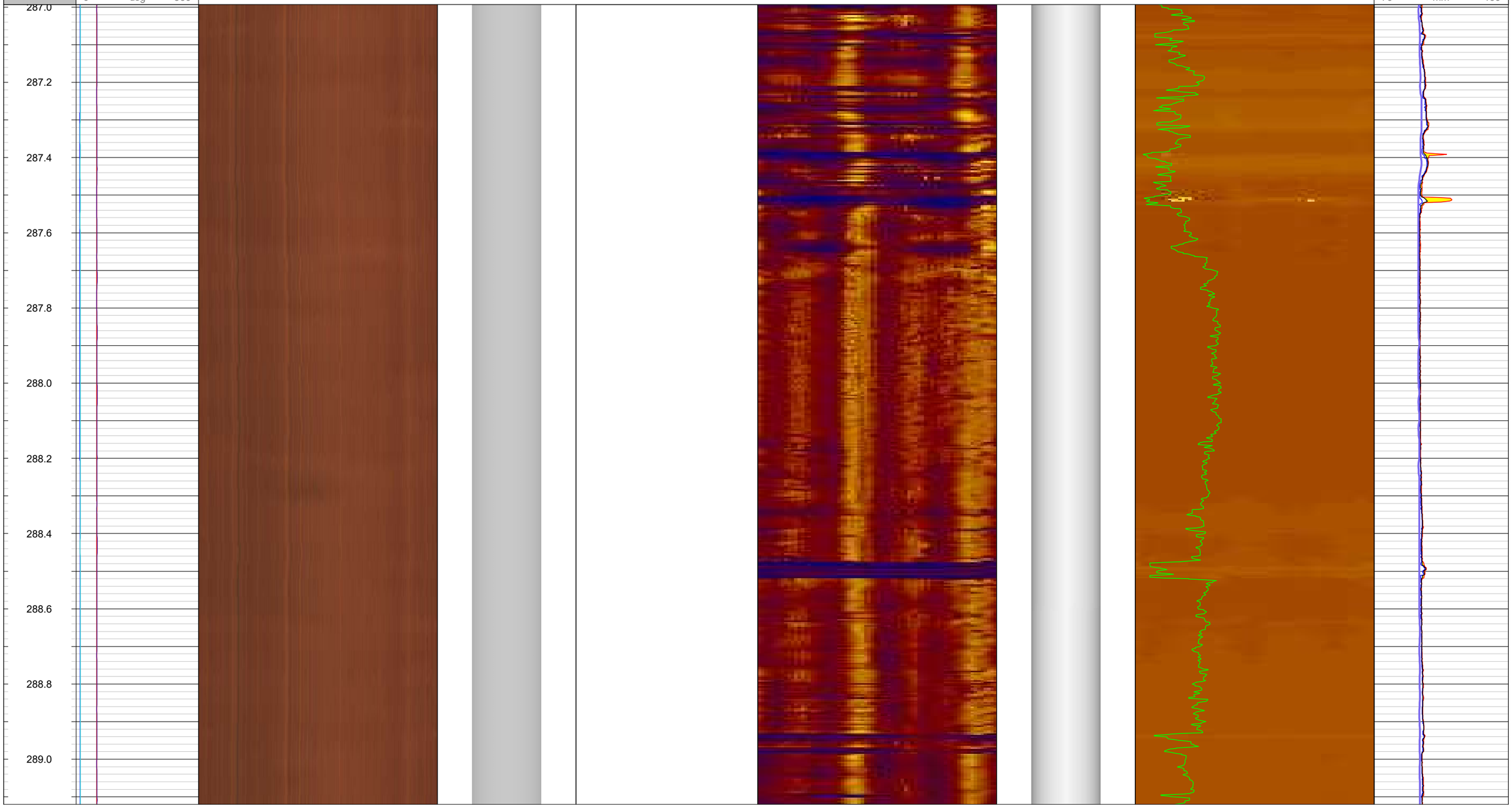


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
282.8								
283.0								
283.2								
283.4								
283.6								
283.8								
284.0								
284.2								
284.4								
284.6								
284.8								

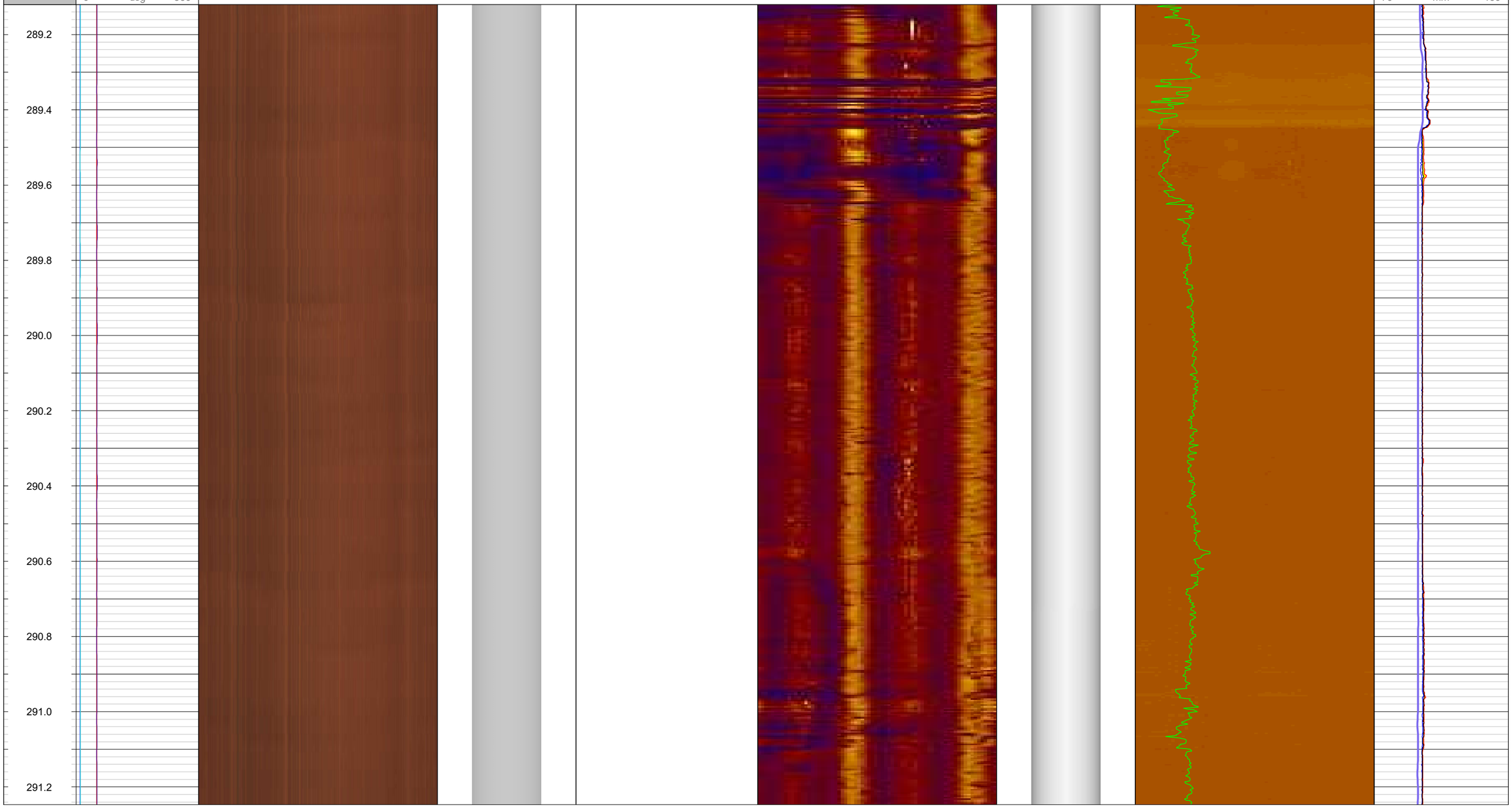
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



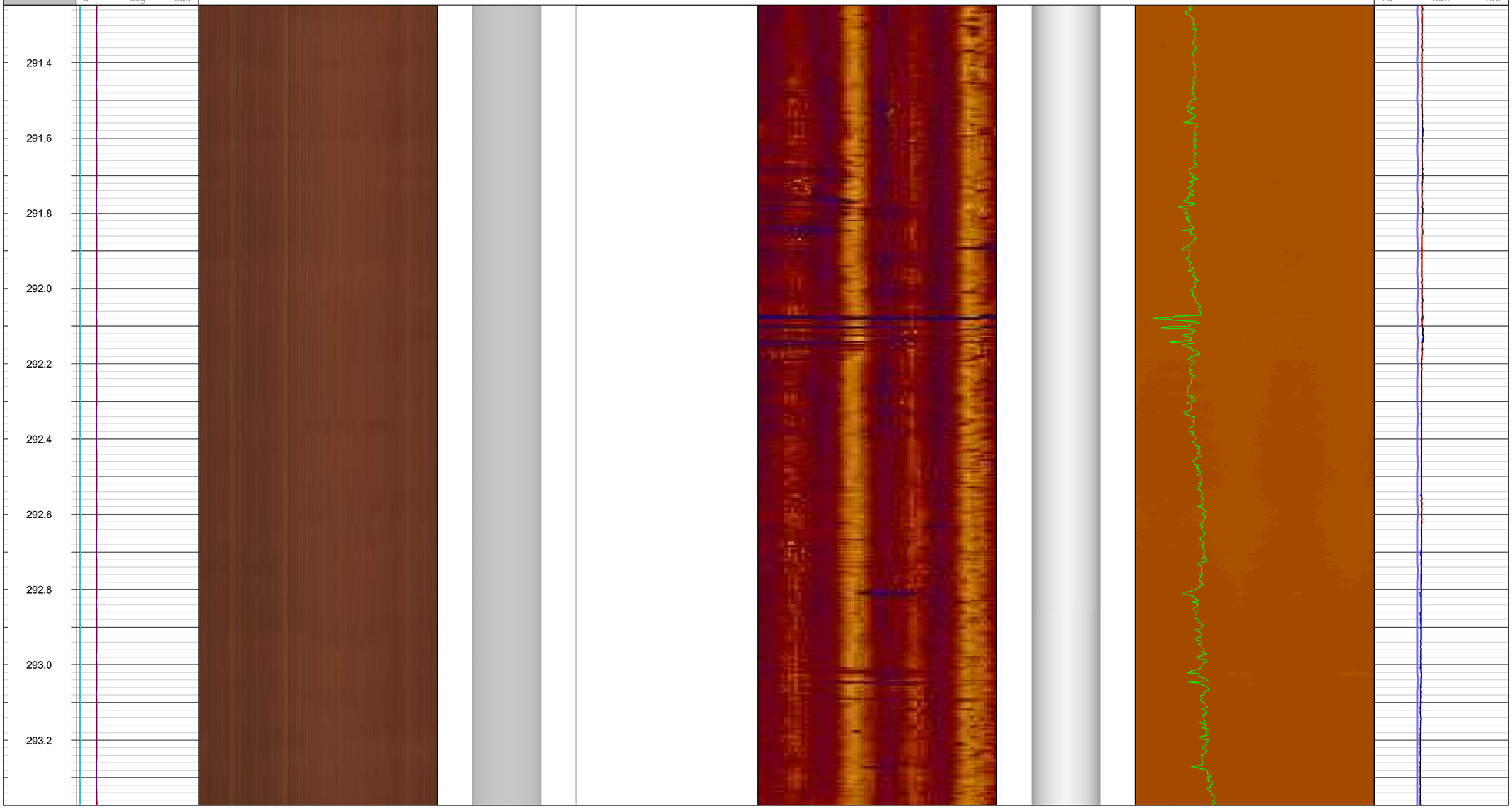
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



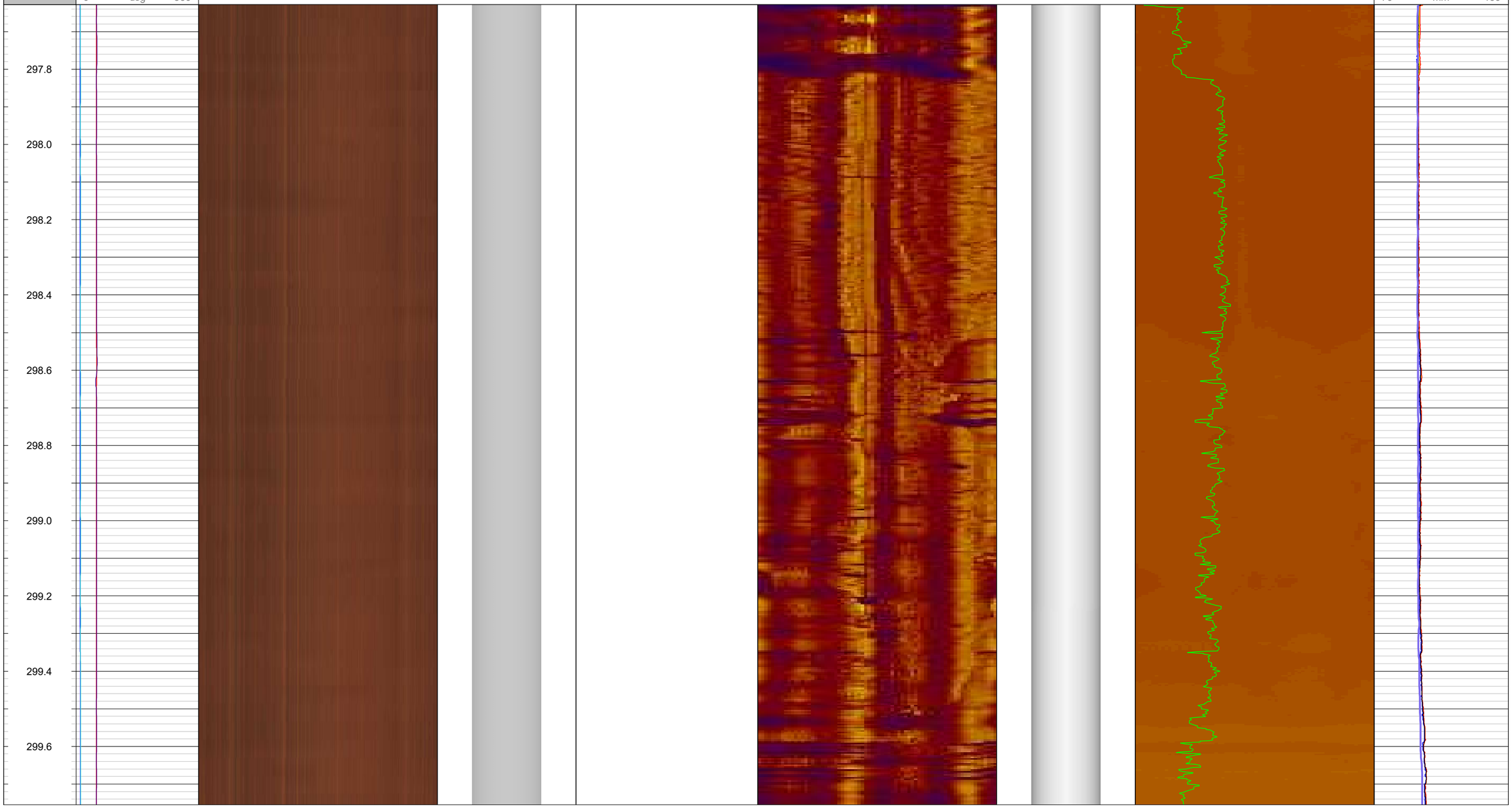
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
293.4								
293.6								
293.8								
294.0								
294.2								
294.4								
294.6								
294.8								
295.0								
295.2								
295.4								

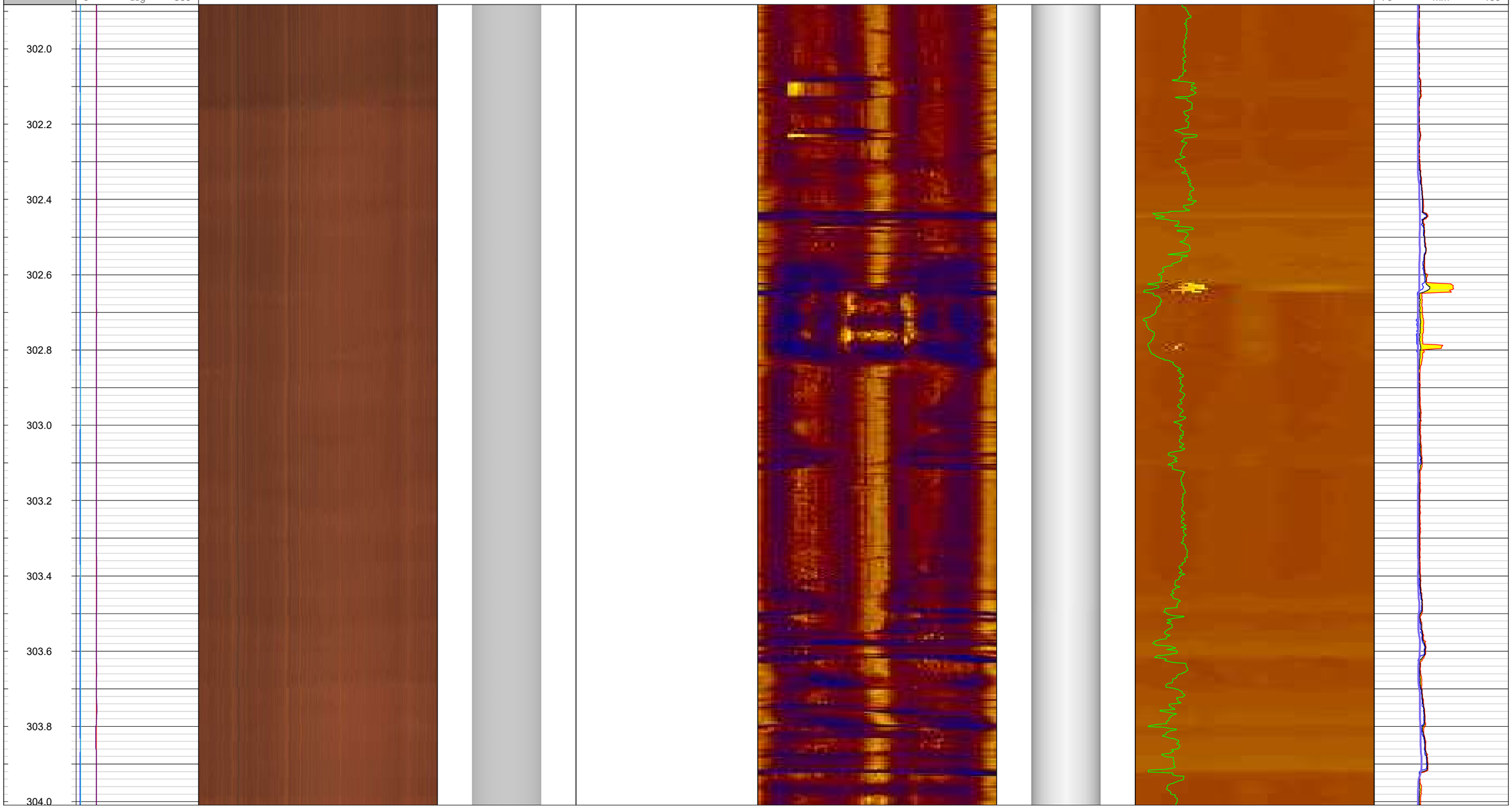
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
295.6								
295.8								
296.0								
296.2								
296.4								
296.6								
296.8								
297.0								
297.2								
297.4								
297.6								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

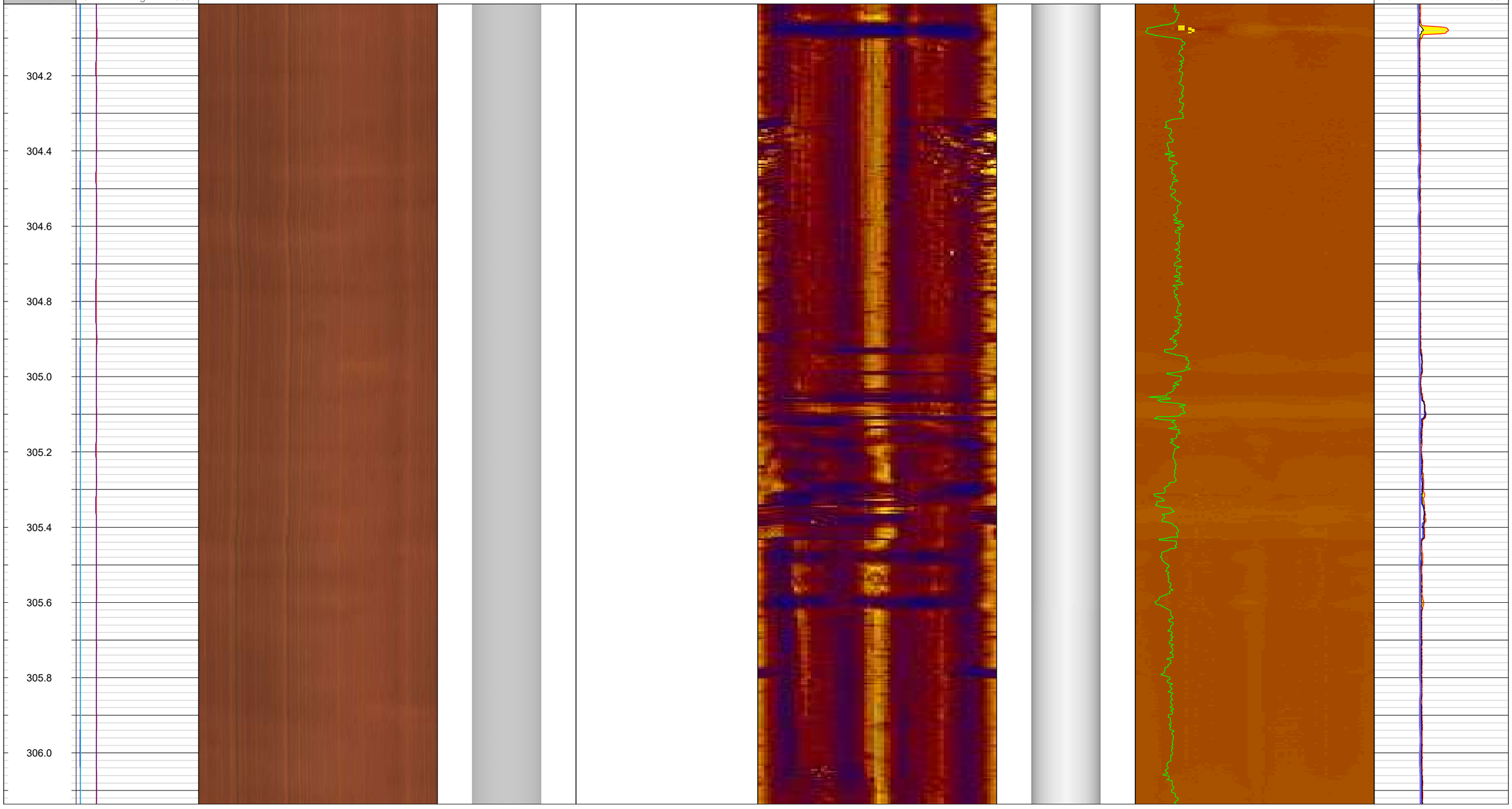


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
299.8								
300.0								
300.2								
300.4								
300.6								
300.8								
301.0								
301.2								
301.4								
301.6								
301.8								

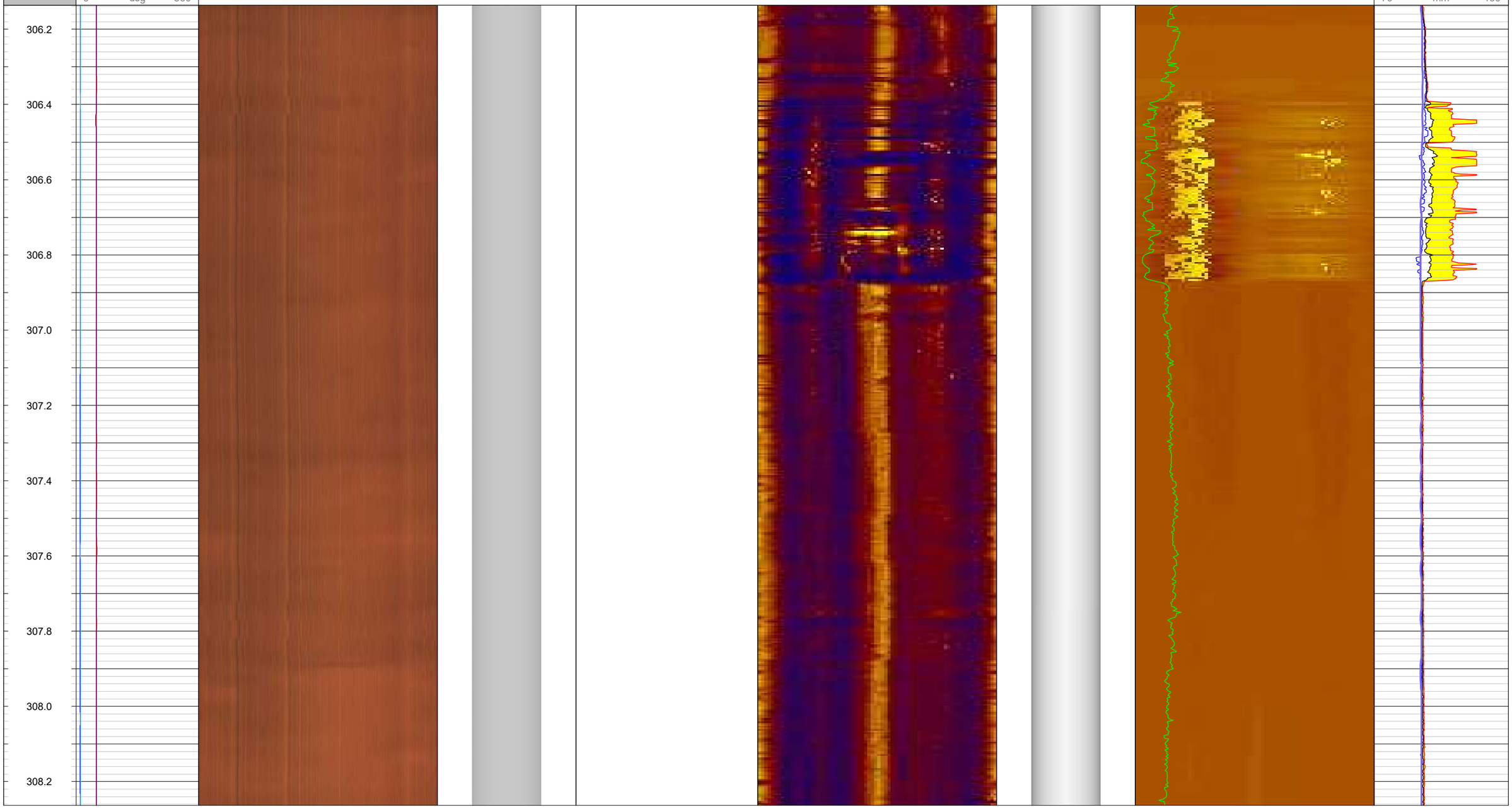
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



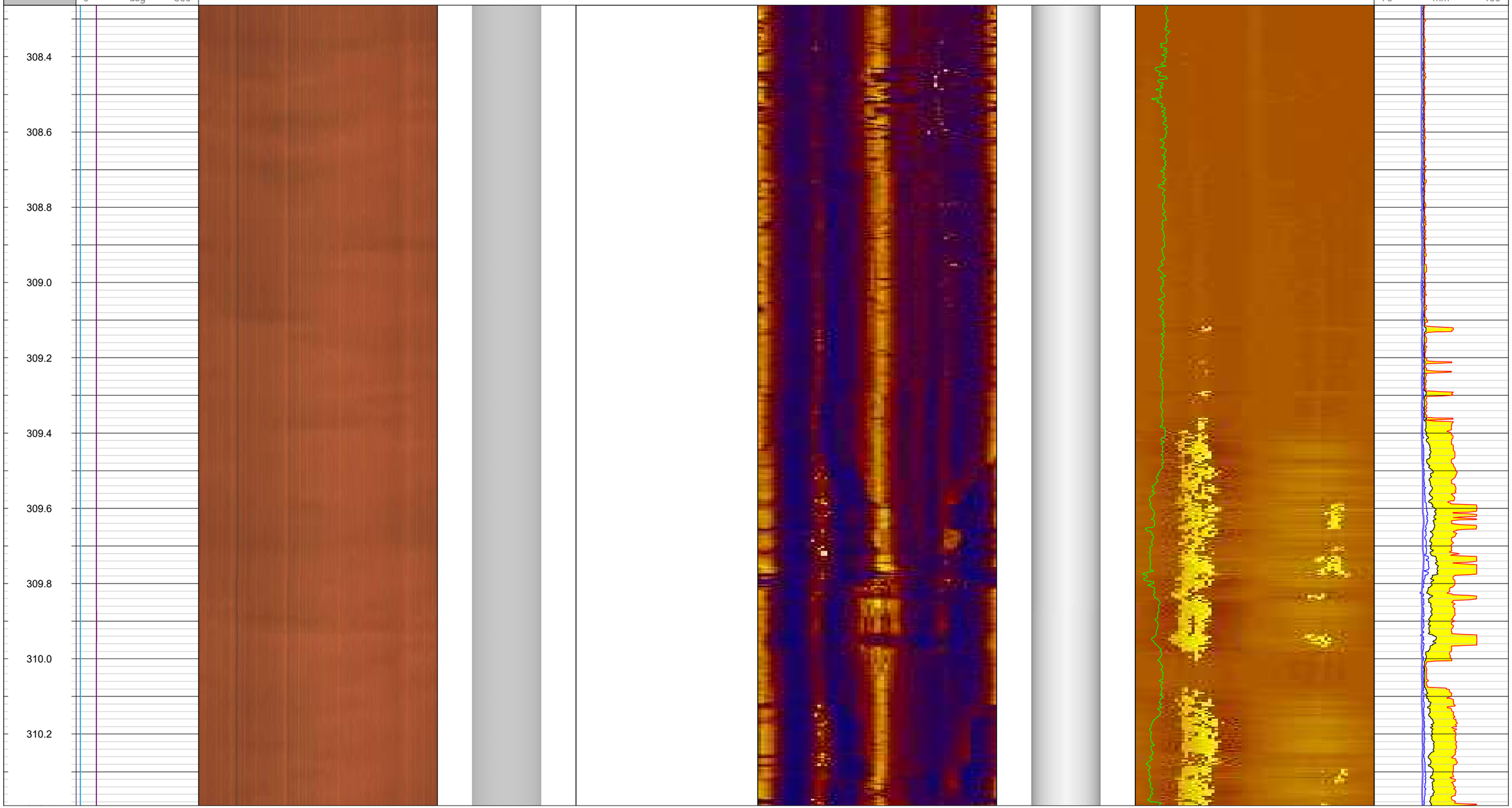
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



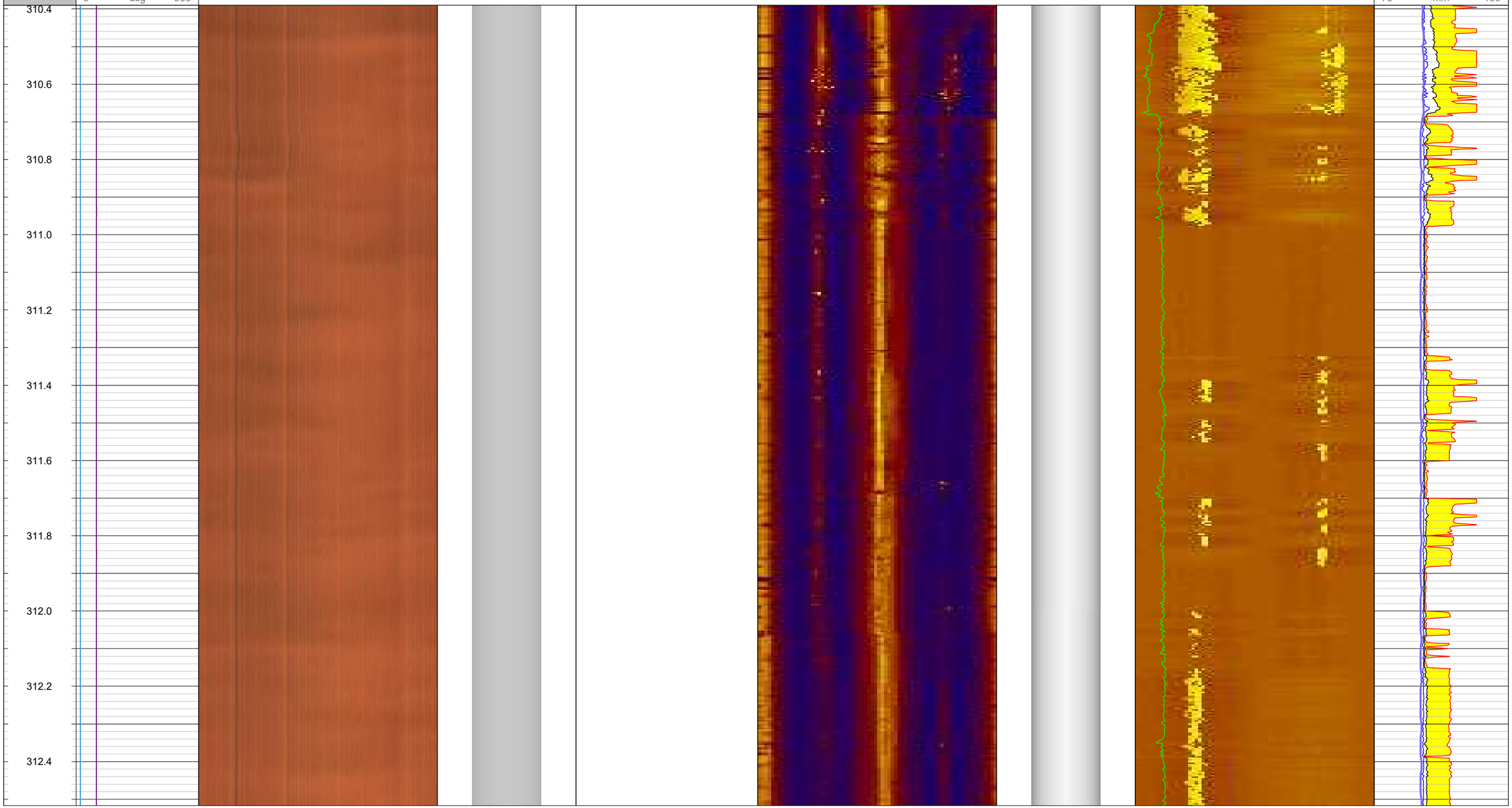
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



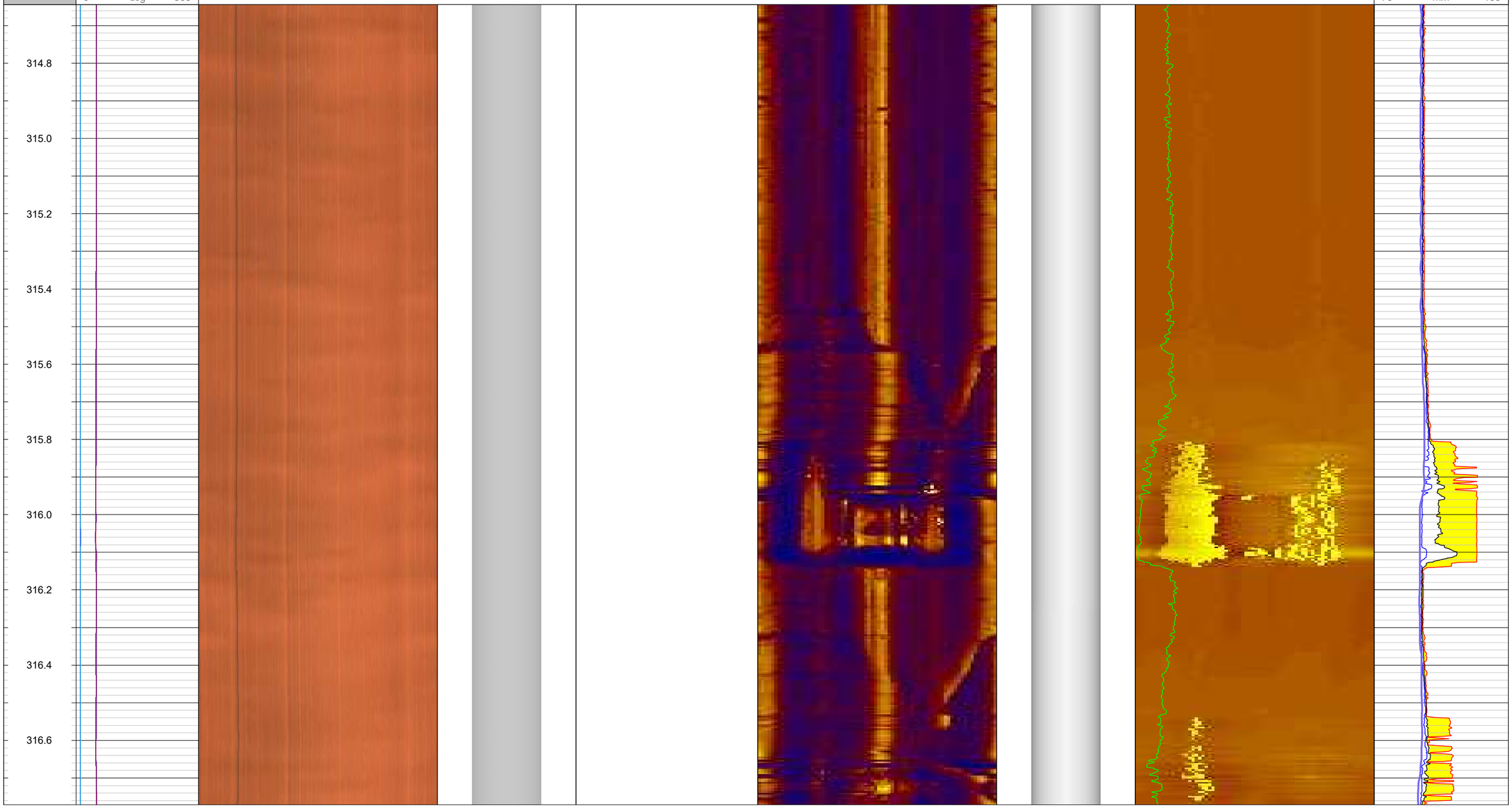
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

312.6
312.8
313.0
313.2
313.4
313.6
313.8
314.0
314.2
314.4
314.6

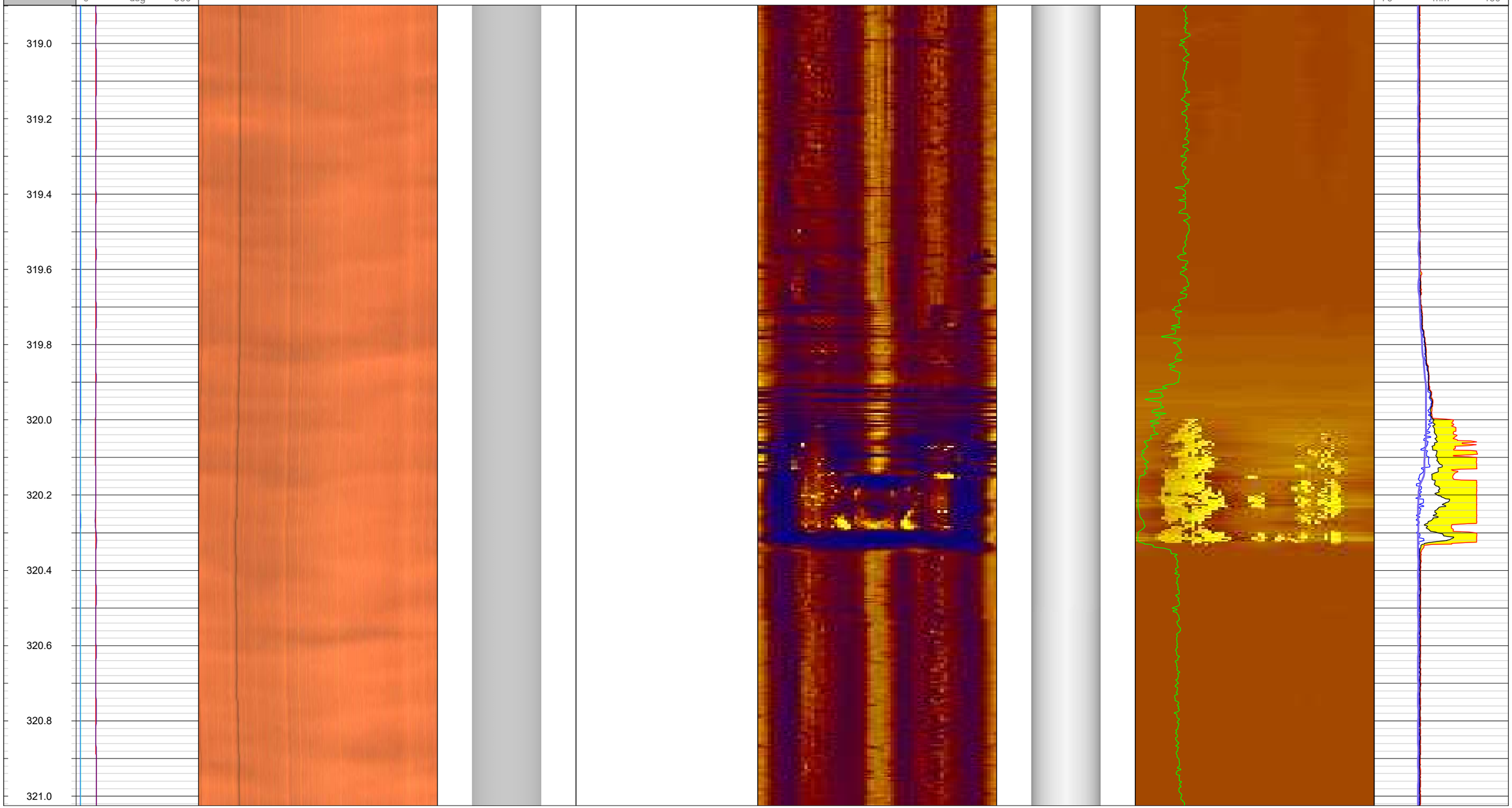
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



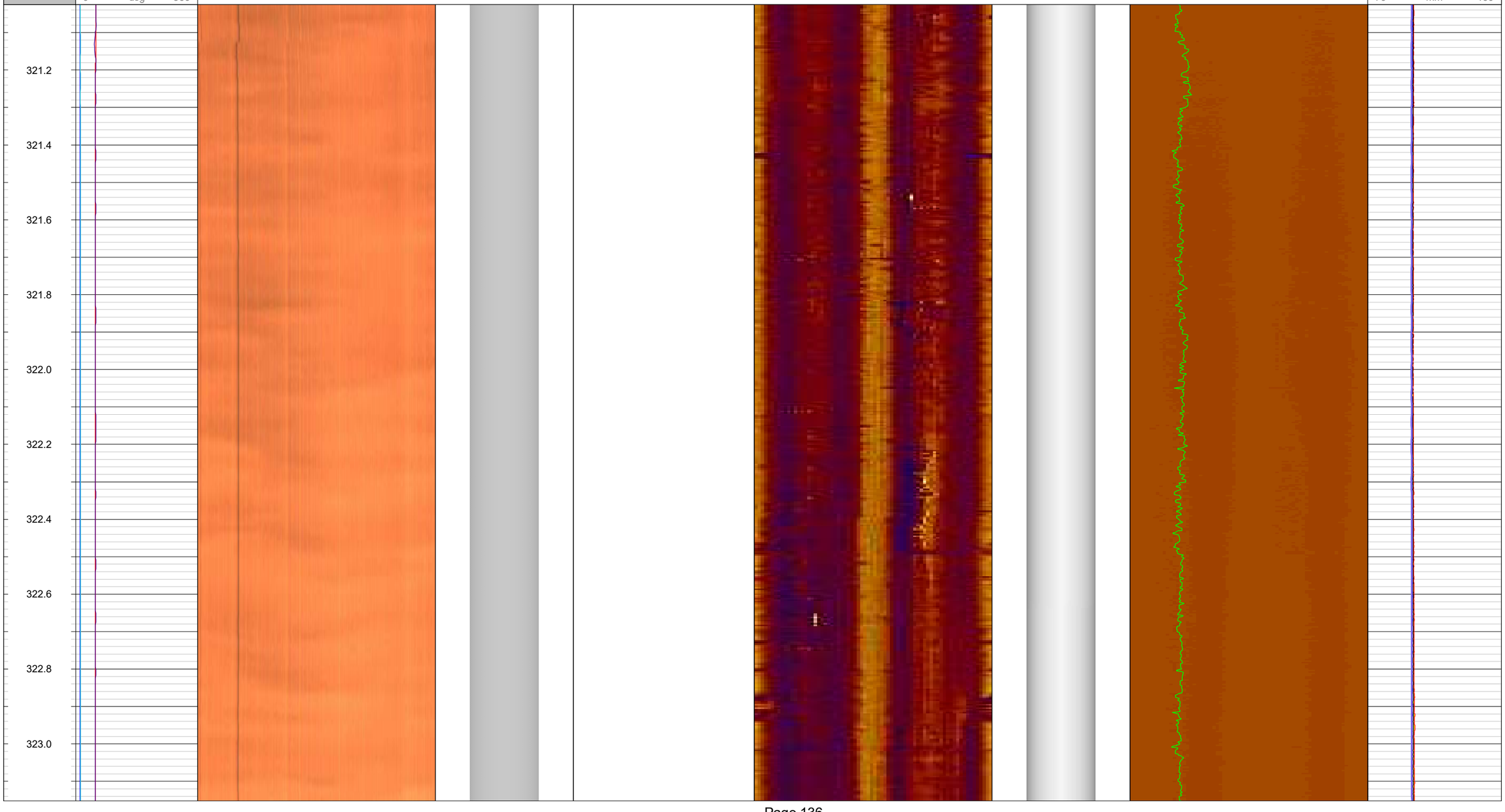
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

316.8
317.0
317.2
317.4
317.6
317.8
318.0
318.2
318.4
318.6
318.8

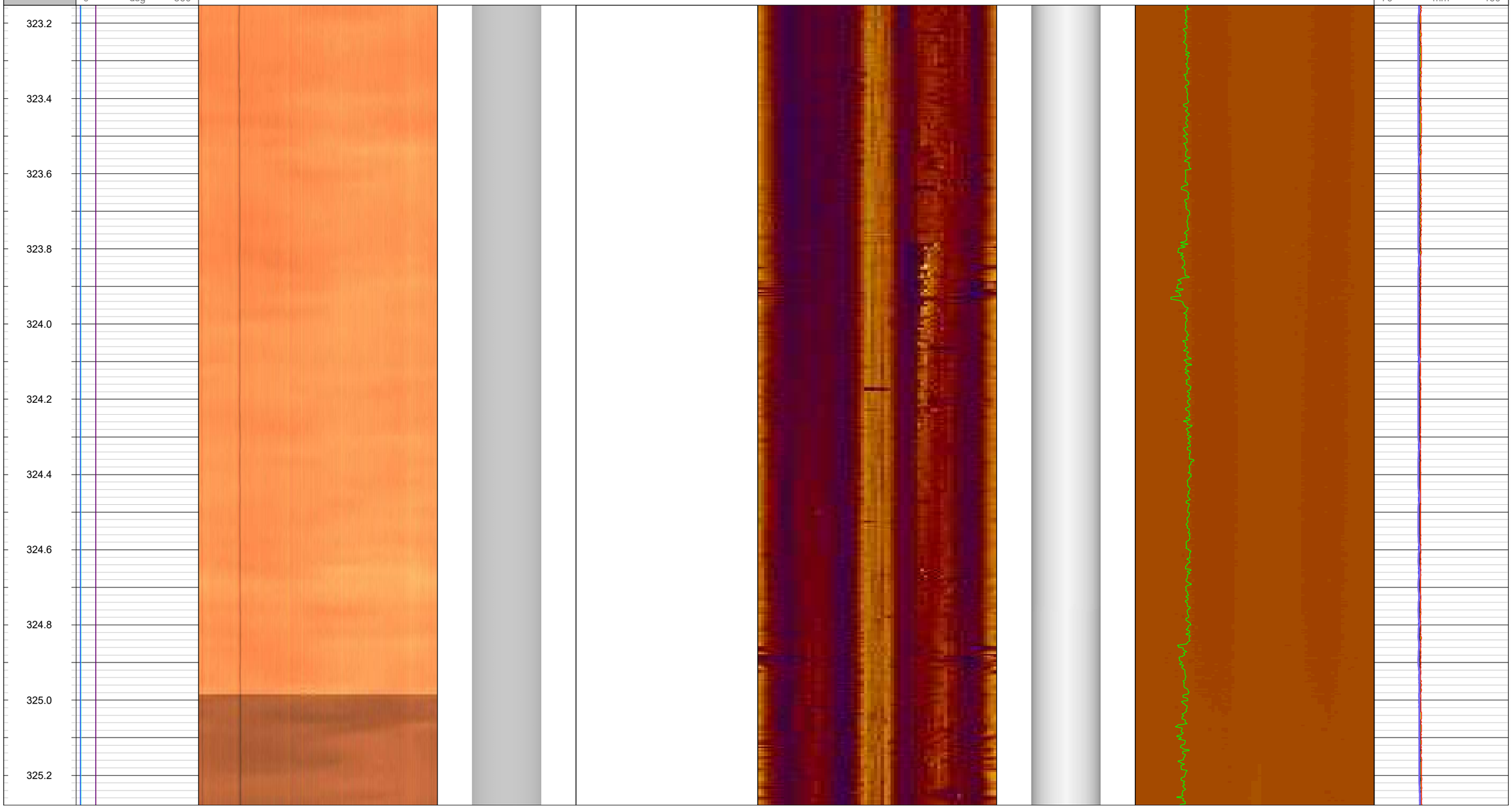
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



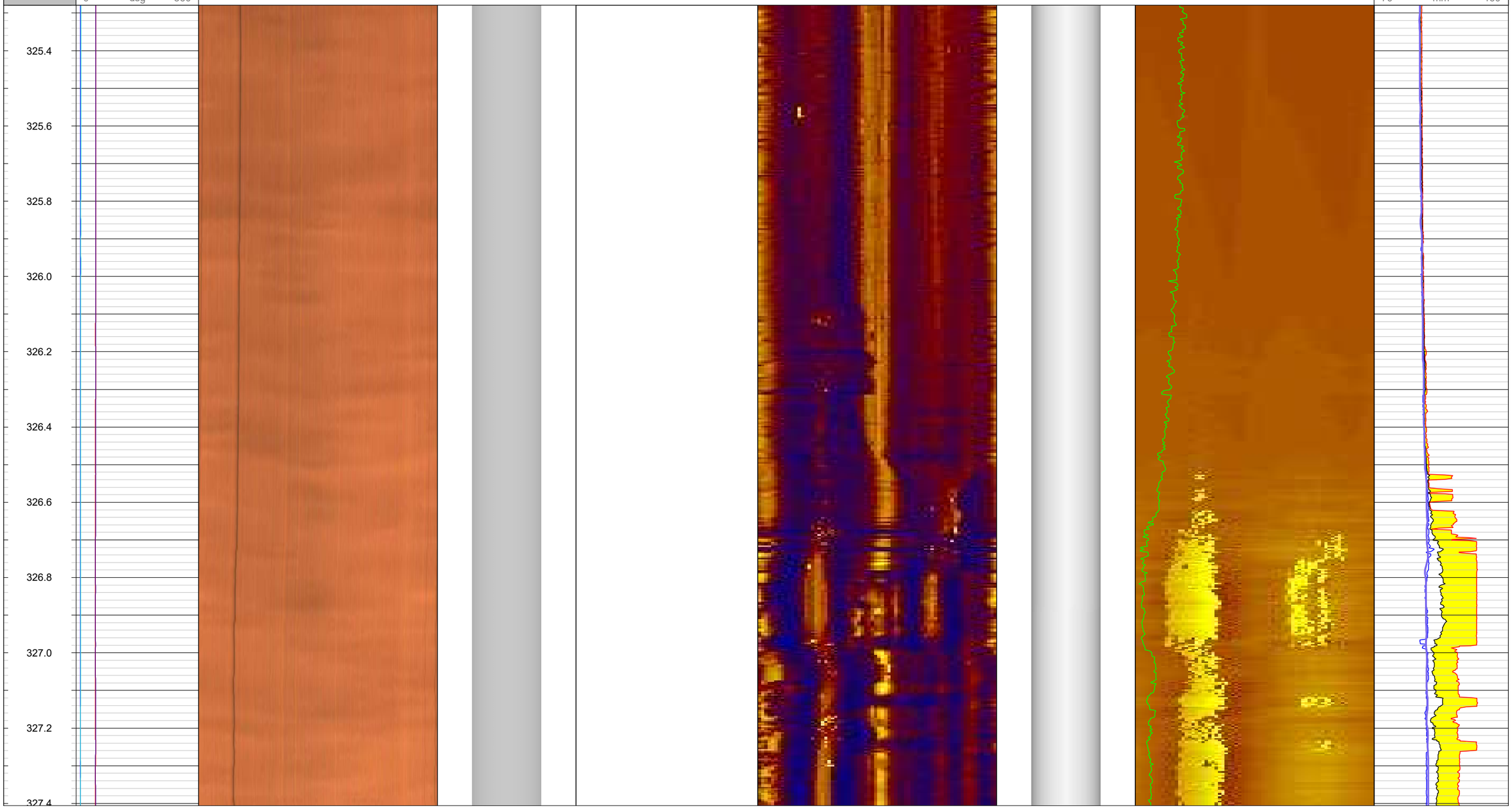
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

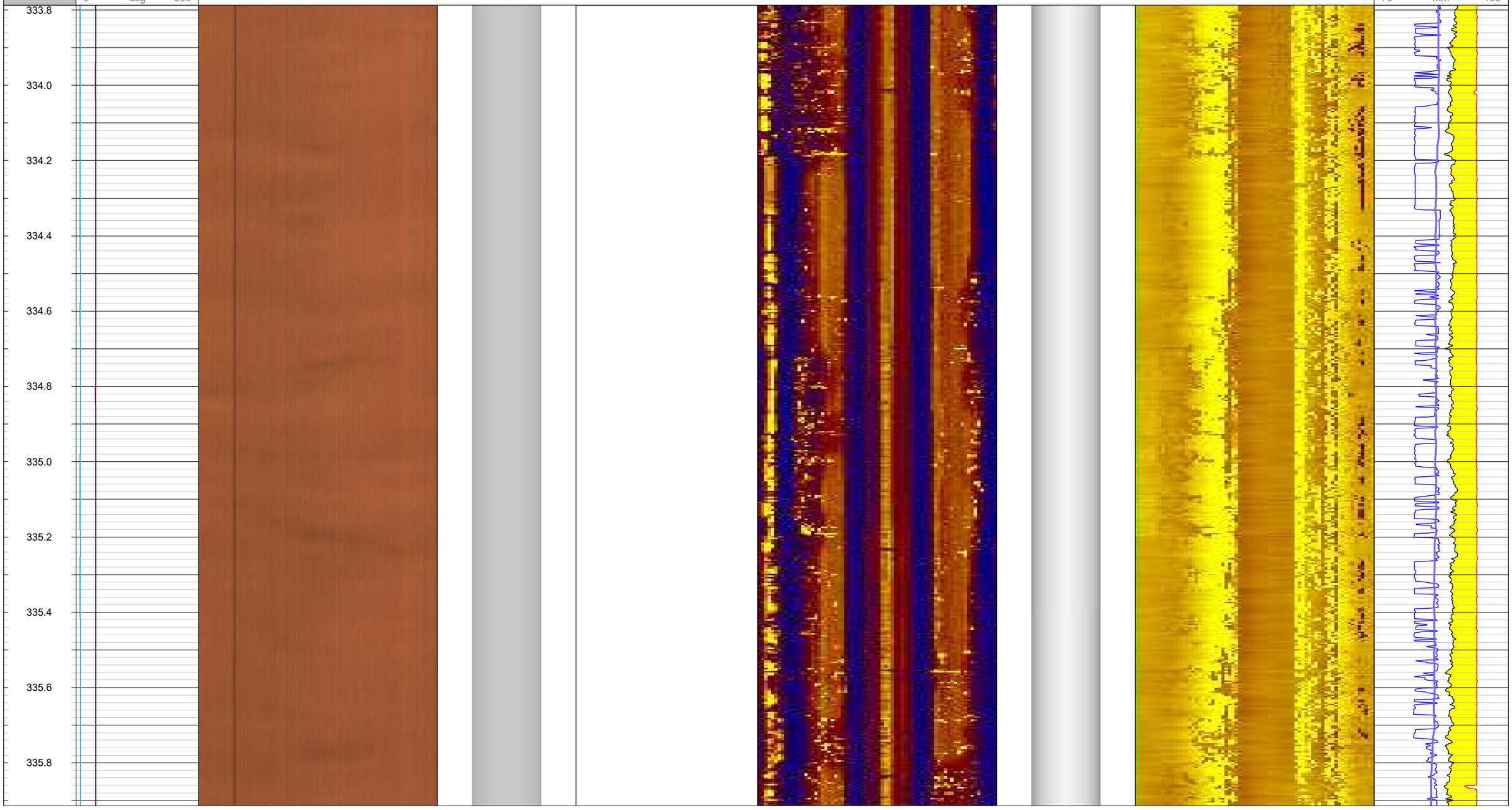


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
1m:10m								
327.6								
327.8								
328.0								
328.2								
328.4								
328.6								
328.8								
329.0								
329.2								
329.4								

Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
329.6									
329.8									
330.0									
330.2									
330.4									
330.6									
330.8									
331.0									
331.2									
331.4									
331.6									

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
331.8								
332.0								
332.2								
332.4								
332.6								
332.8								
333.0								
333.2								
333.4								
333.6								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth

1m:10m

Orientation

Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (OTV)
0 deg 90
Azimuth (OTV)
0 deg 360

Acoustic and Optical Televiewer Analysis

Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°

3D Image Log
-0°

Amplitude-HS - Zone of Interest
0° 90° 180° 270° 0°

Amplitude-HS Normalized - Zone of Interest
0 7500
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0 7000
0° 90° 180° 270° 0°

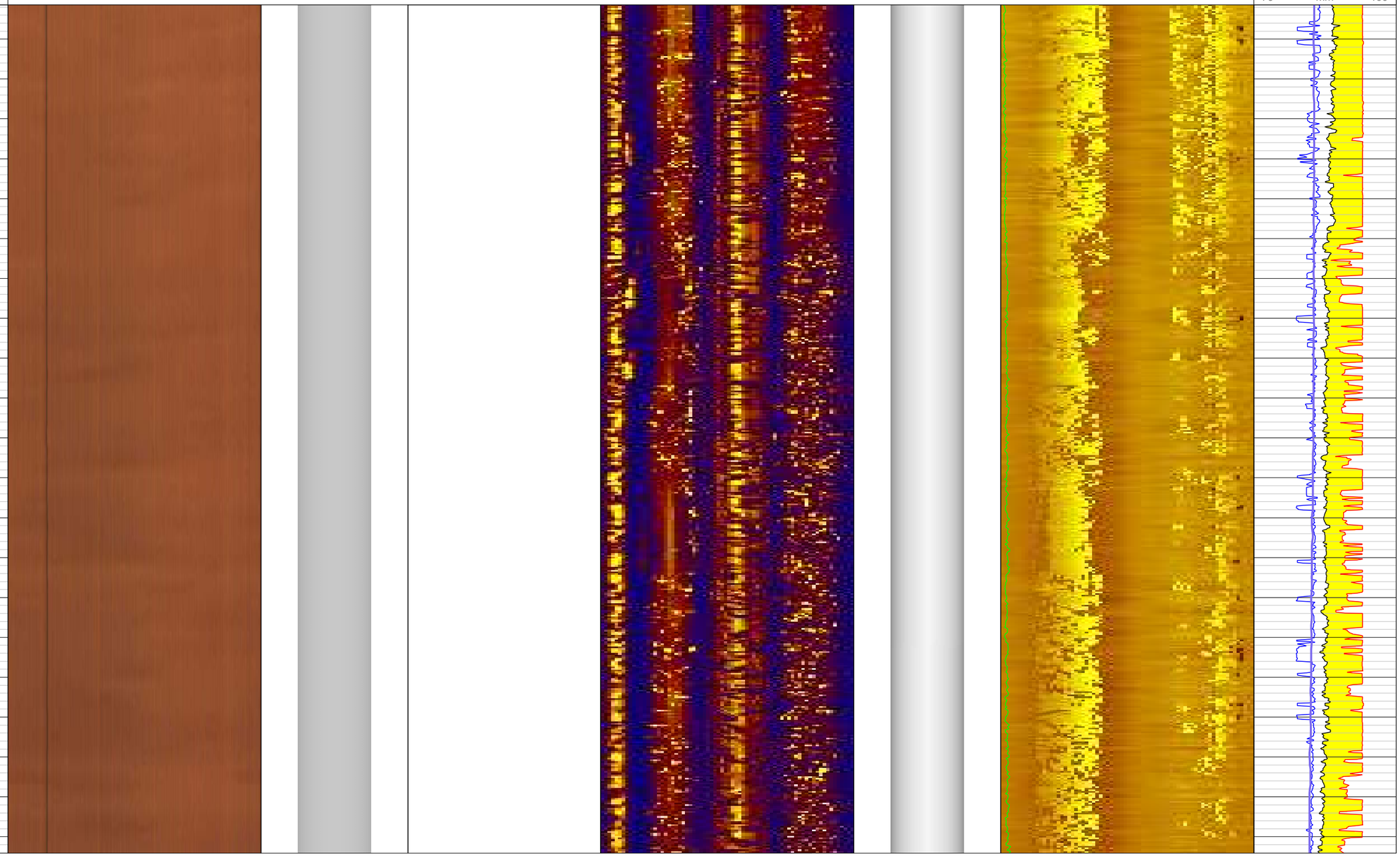
3D Acoustic Log
-0°

Centralized TT - Zone of Interest
Centralized TT - Low Resolution
Reflective Index
0 12000

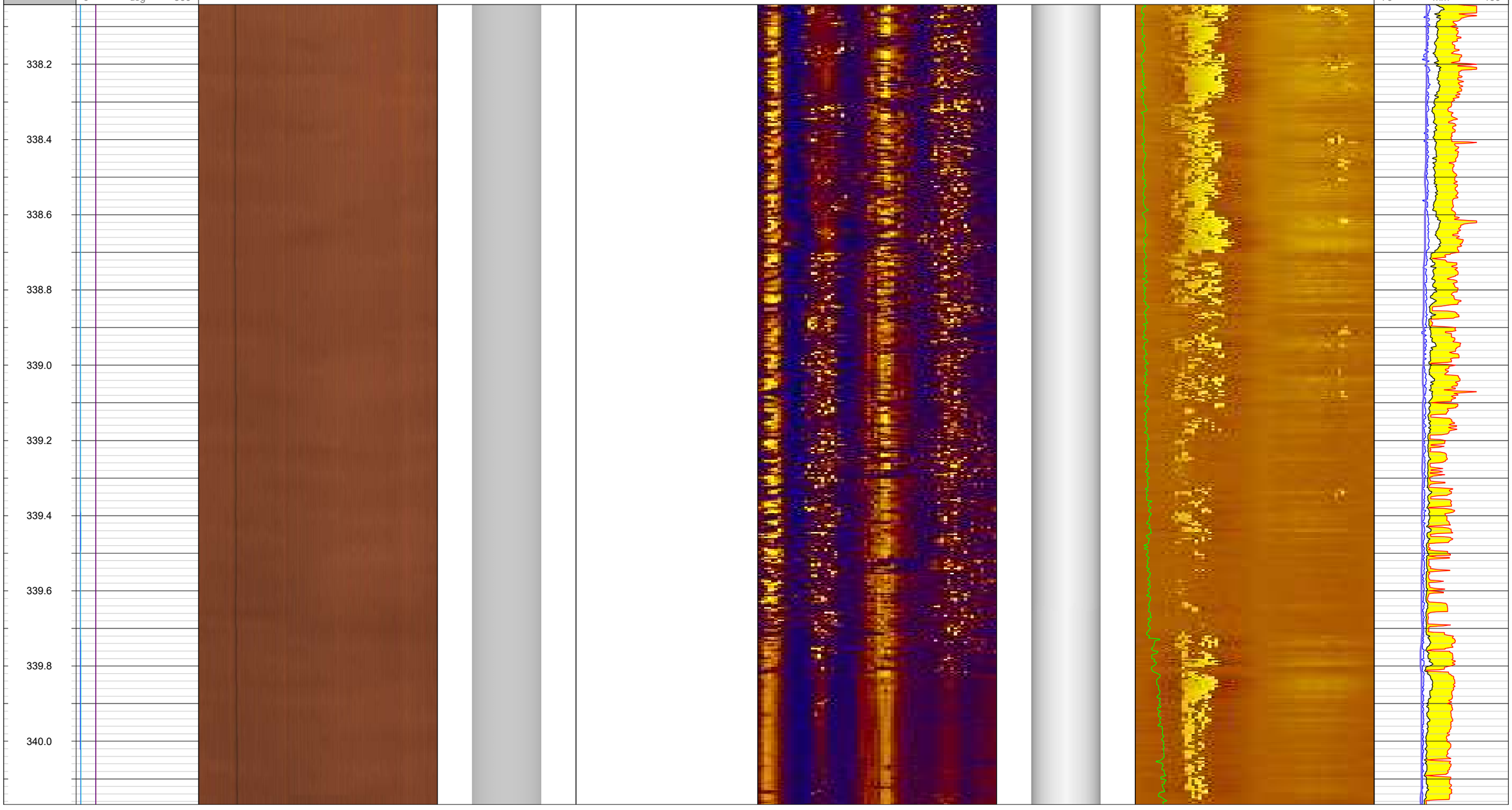
Caliper

Caliper - min from TT
70 mm 160
Caliper - max from TT
70 mm 160
Caliper - ave from TT
70 mm 160
3-Arm Caliper
70 mm 160

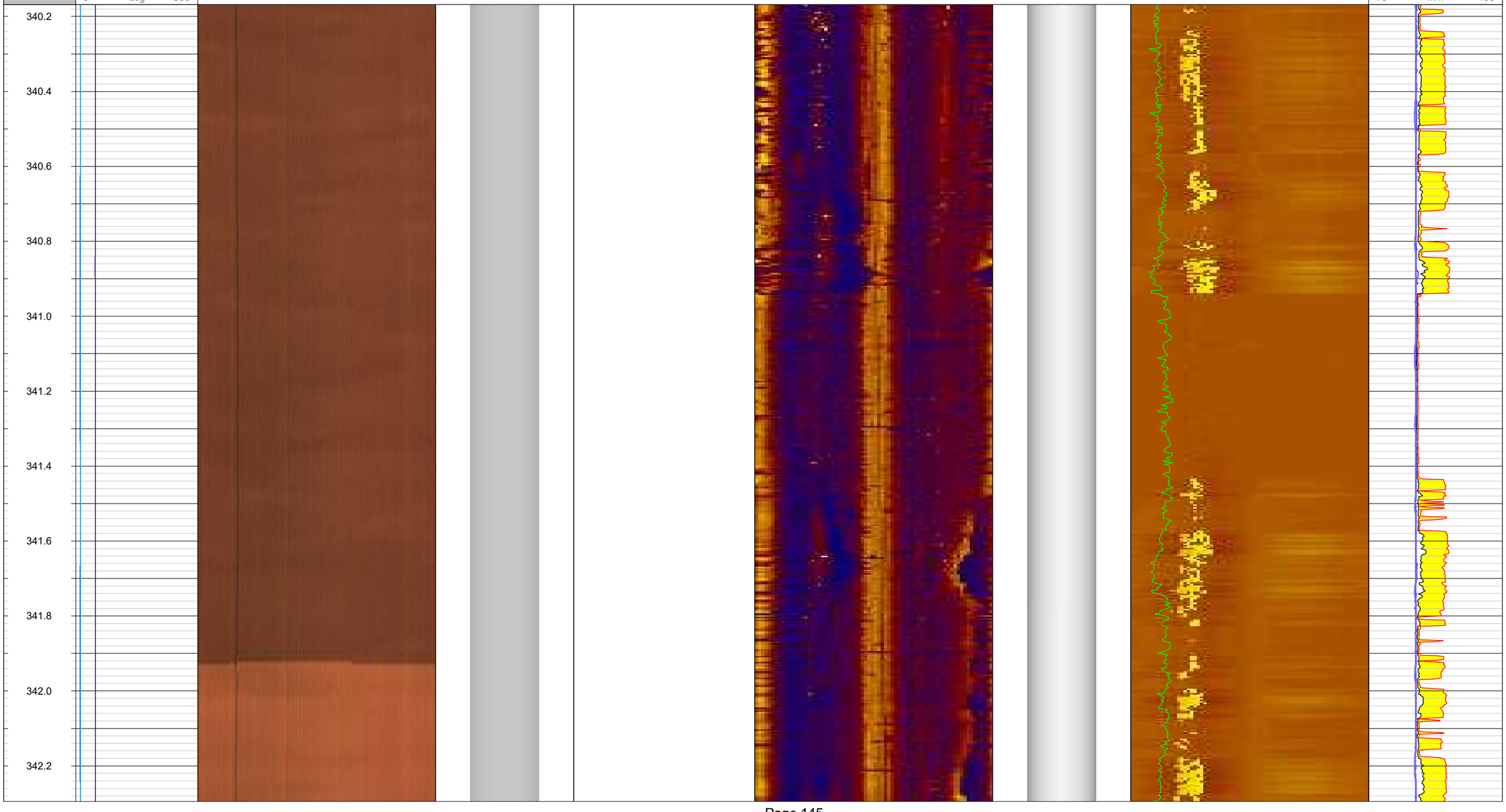
336.0
336.2
336.4
336.6
336.8
337.0
337.2
337.4
337.6
337.8
338.0



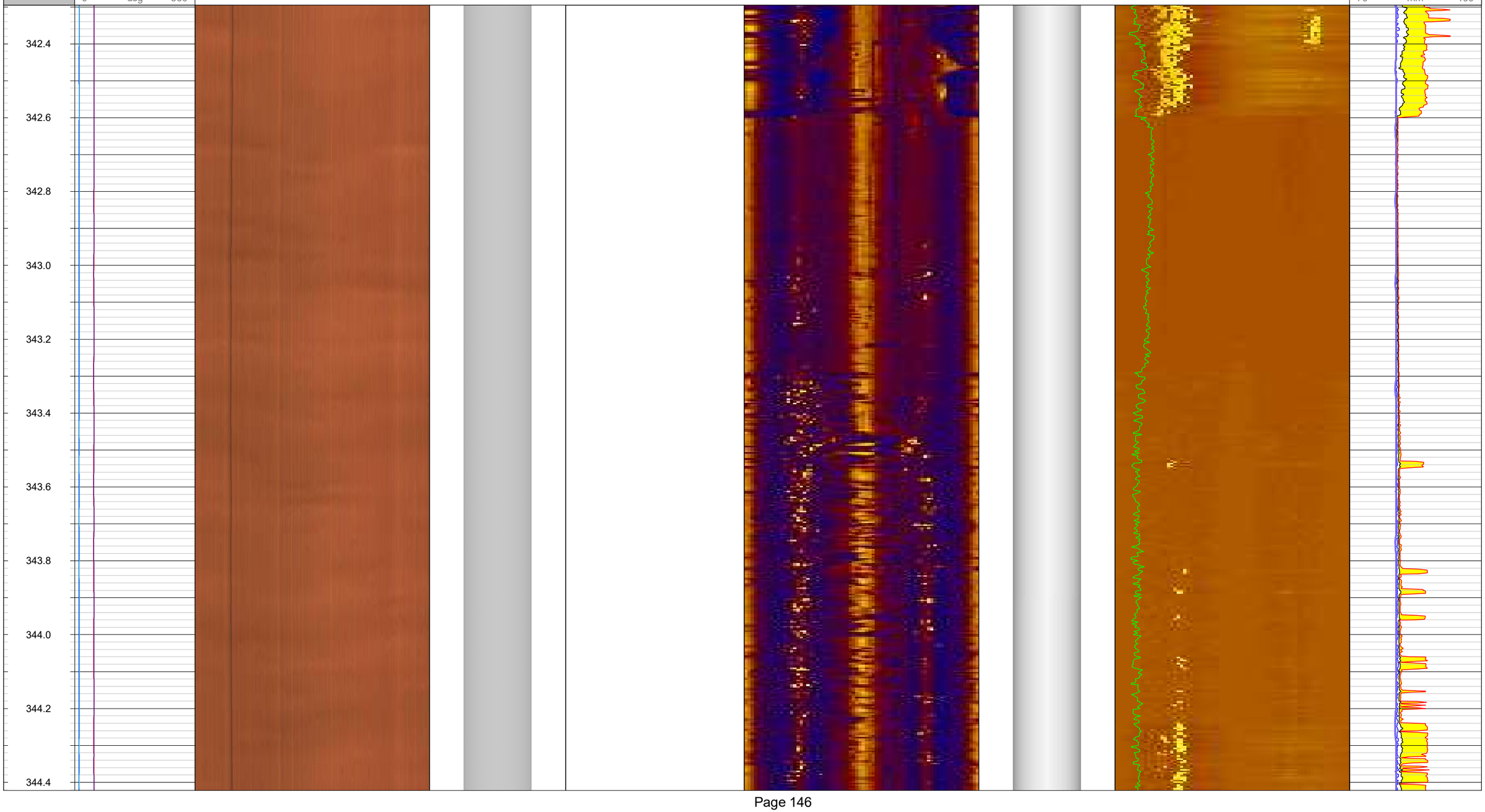
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
1m:10m								



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



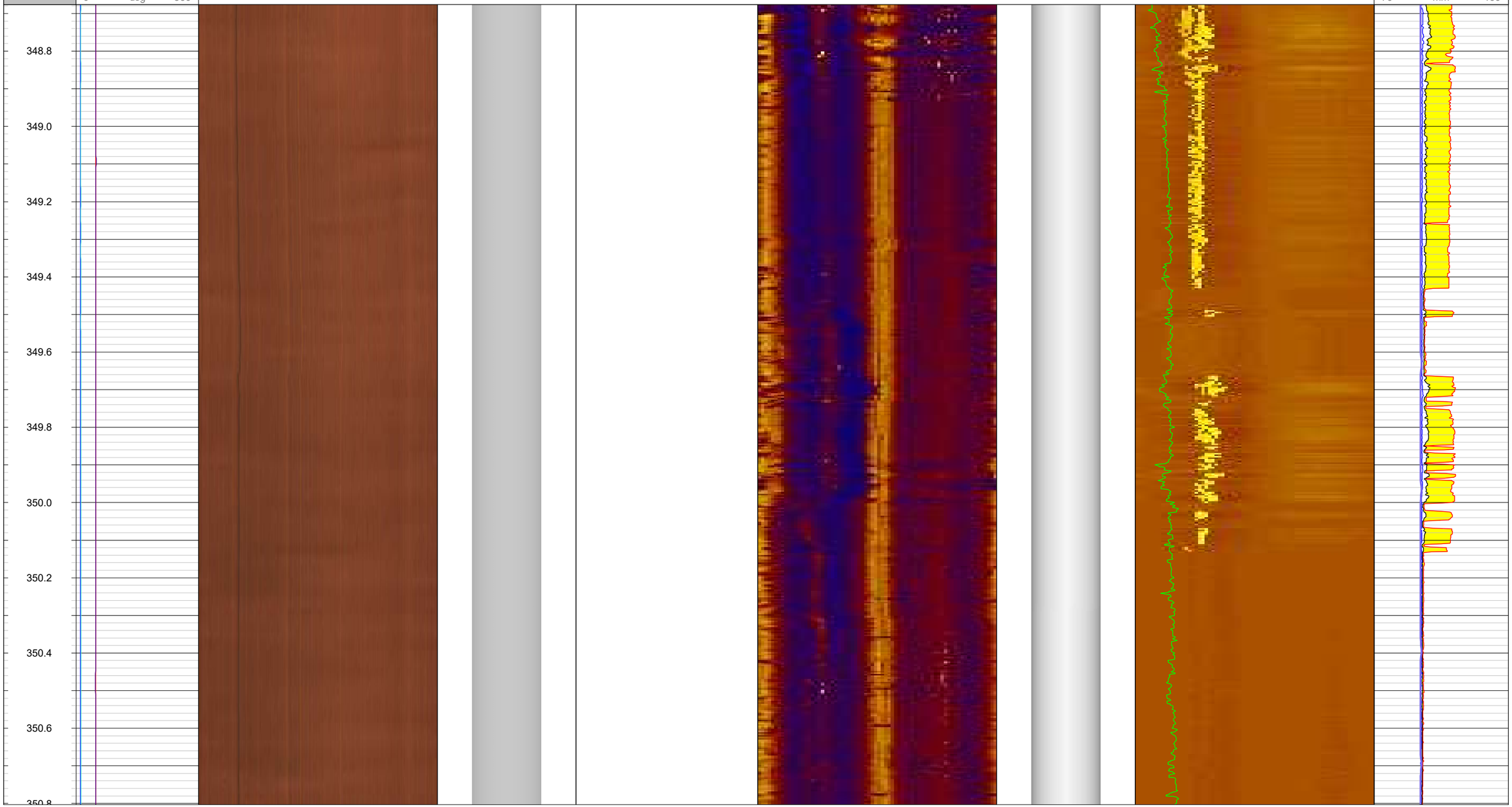
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



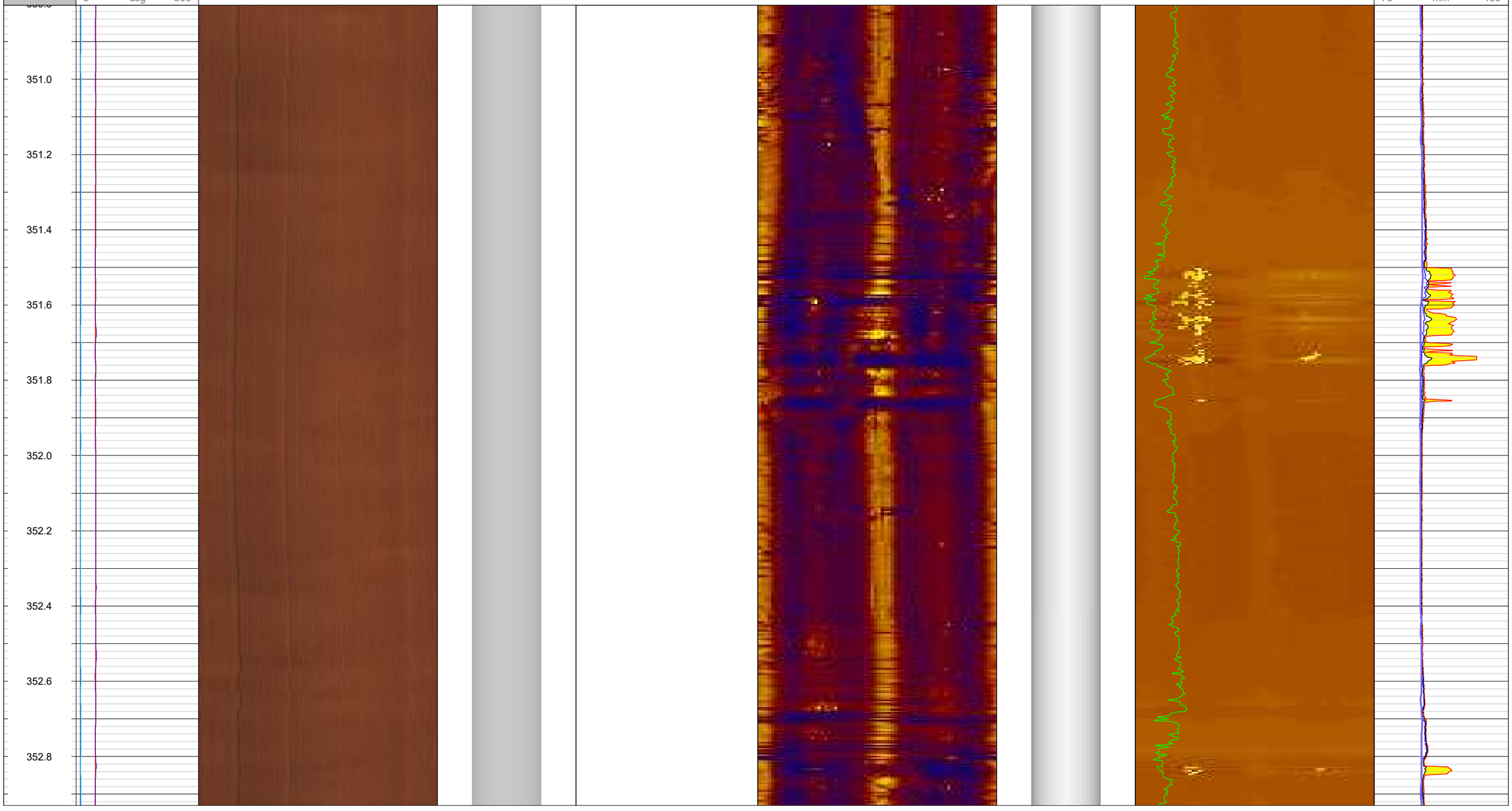
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
344.6								
344.8								
345.0								
345.2								
345.4								
345.6								
345.8								
346.0								
346.2								
346.4								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
346.6								
346.8								
347.0								
347.2								
347.4								
347.6								
347.8								
348.0								
348.2								
348.4								
348.6								

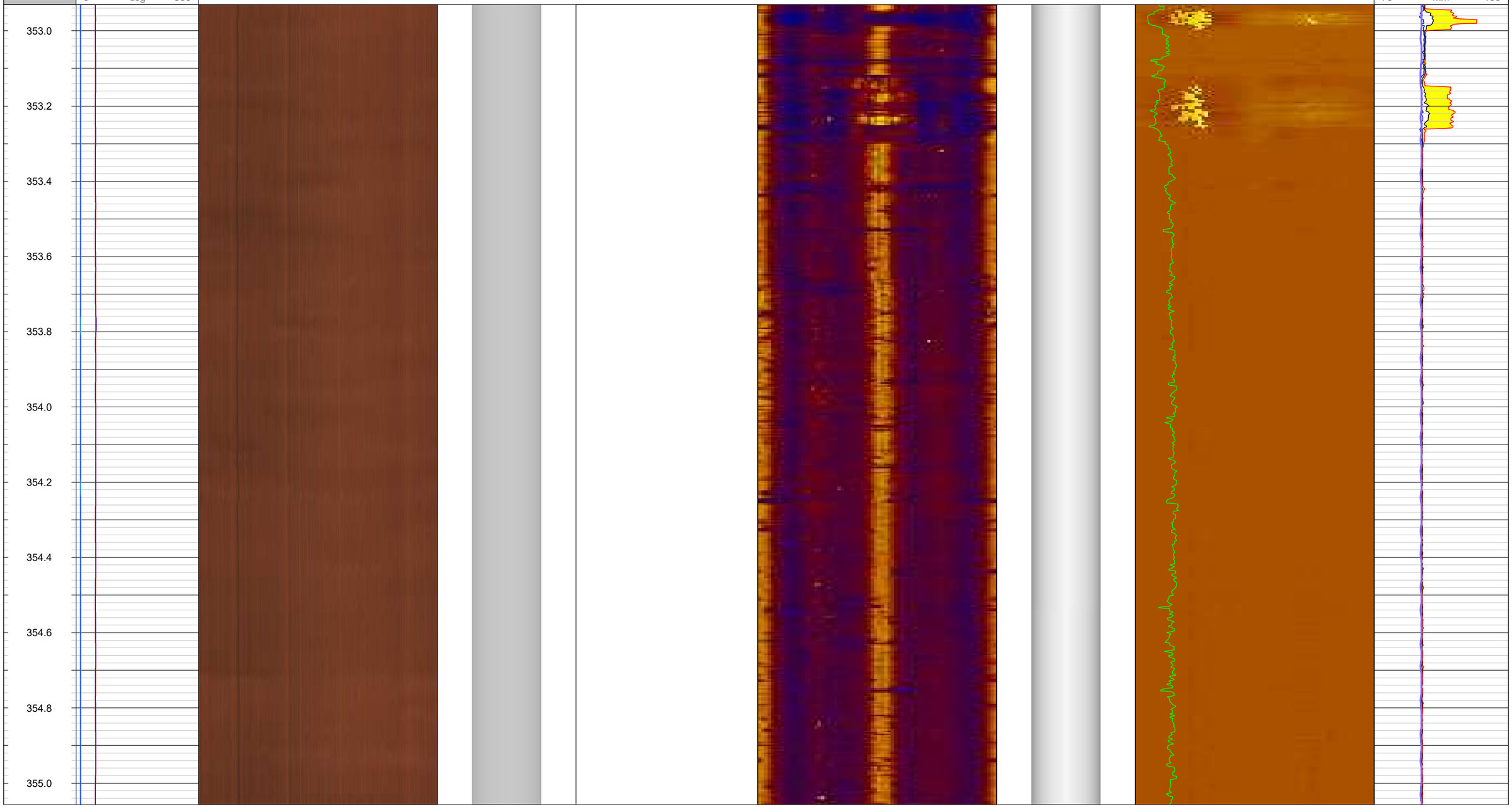
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



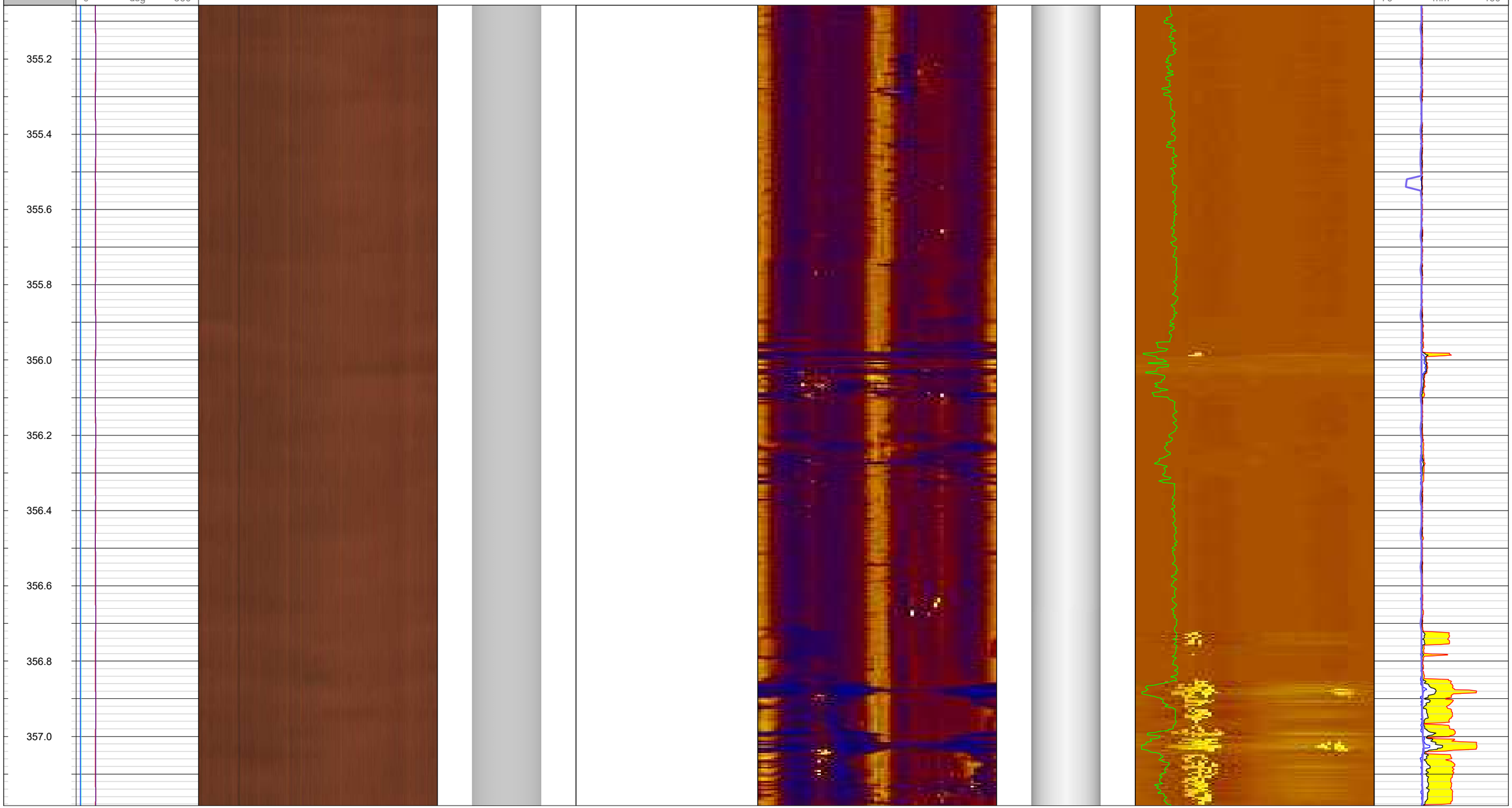
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

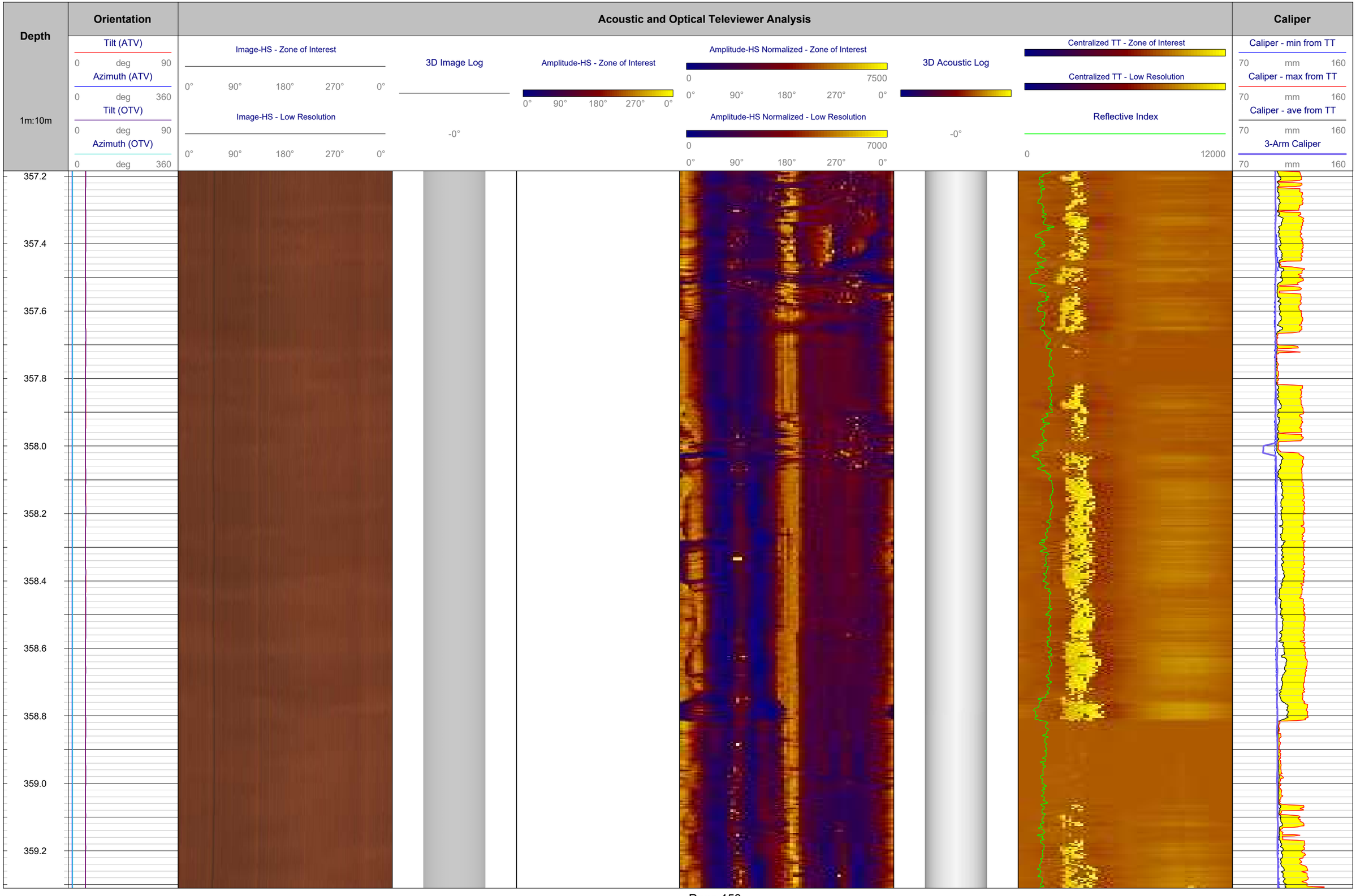


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

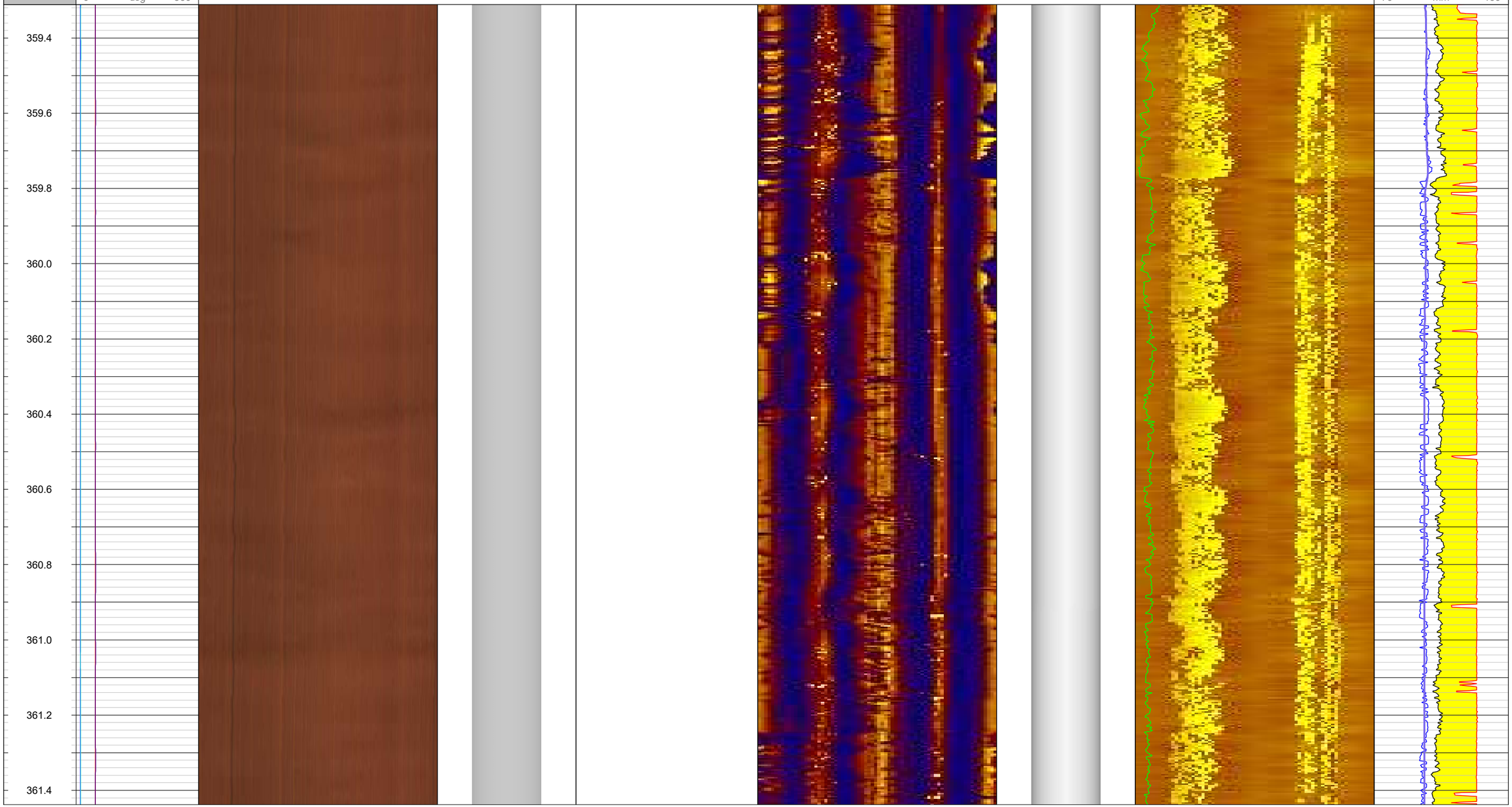


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

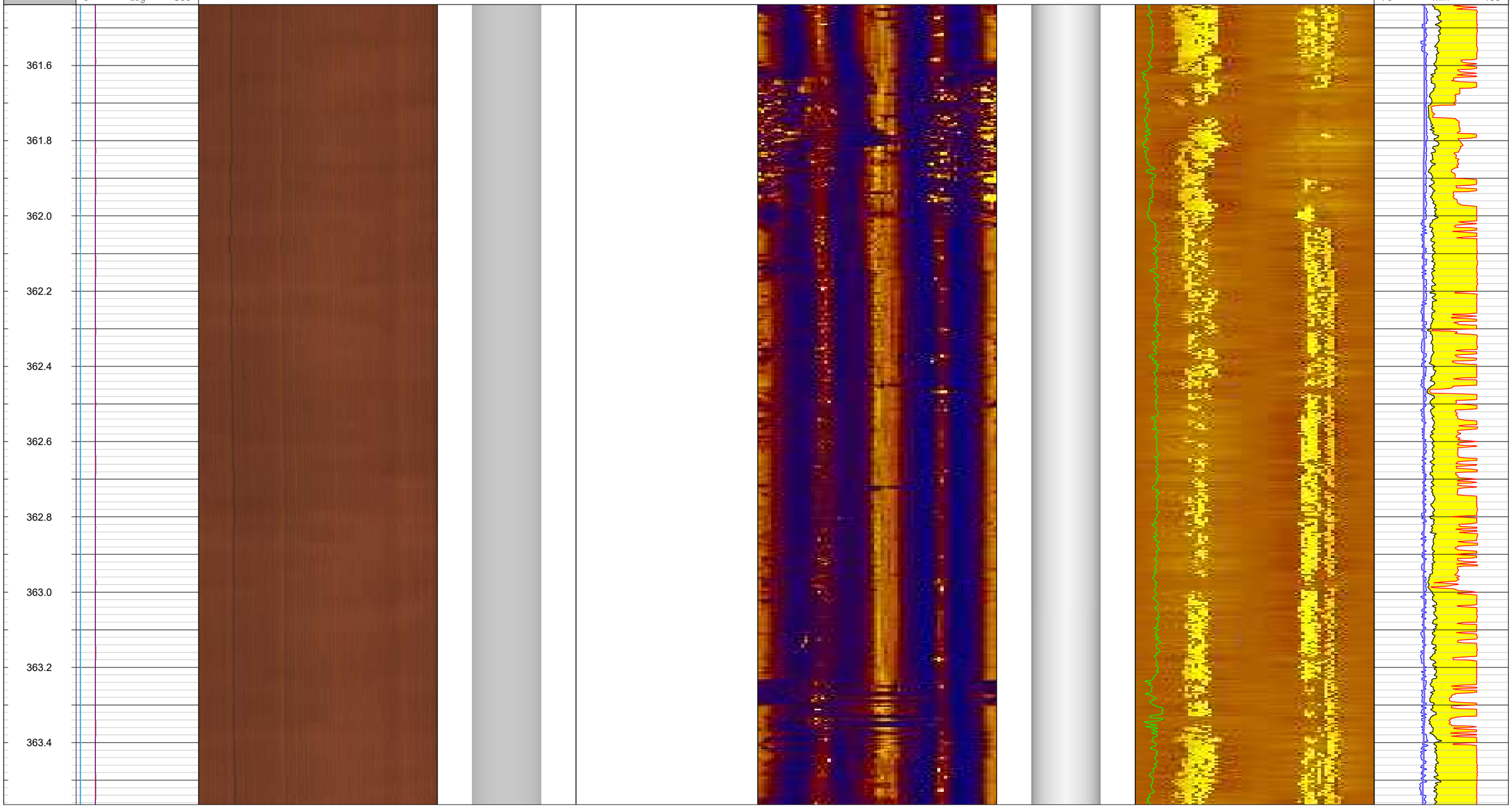



Depth
1m:10m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (OTV)
0 deg 90
Azimuth (OTV)
0 deg 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0 7500
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0 7000
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
Centralized TT - Low Resolution
Reflective Index
0 12000
Caliper
Caliper - min from TT
70 mm 160
Caliper - max from TT
70 mm 160
Caliper - ave from TT
70 mm 160
3-Arm Caliper
70 mm 160
357.2
357.4
357.6
357.8
358.0
358.2
358.4
358.6
358.8
359.0
359.2

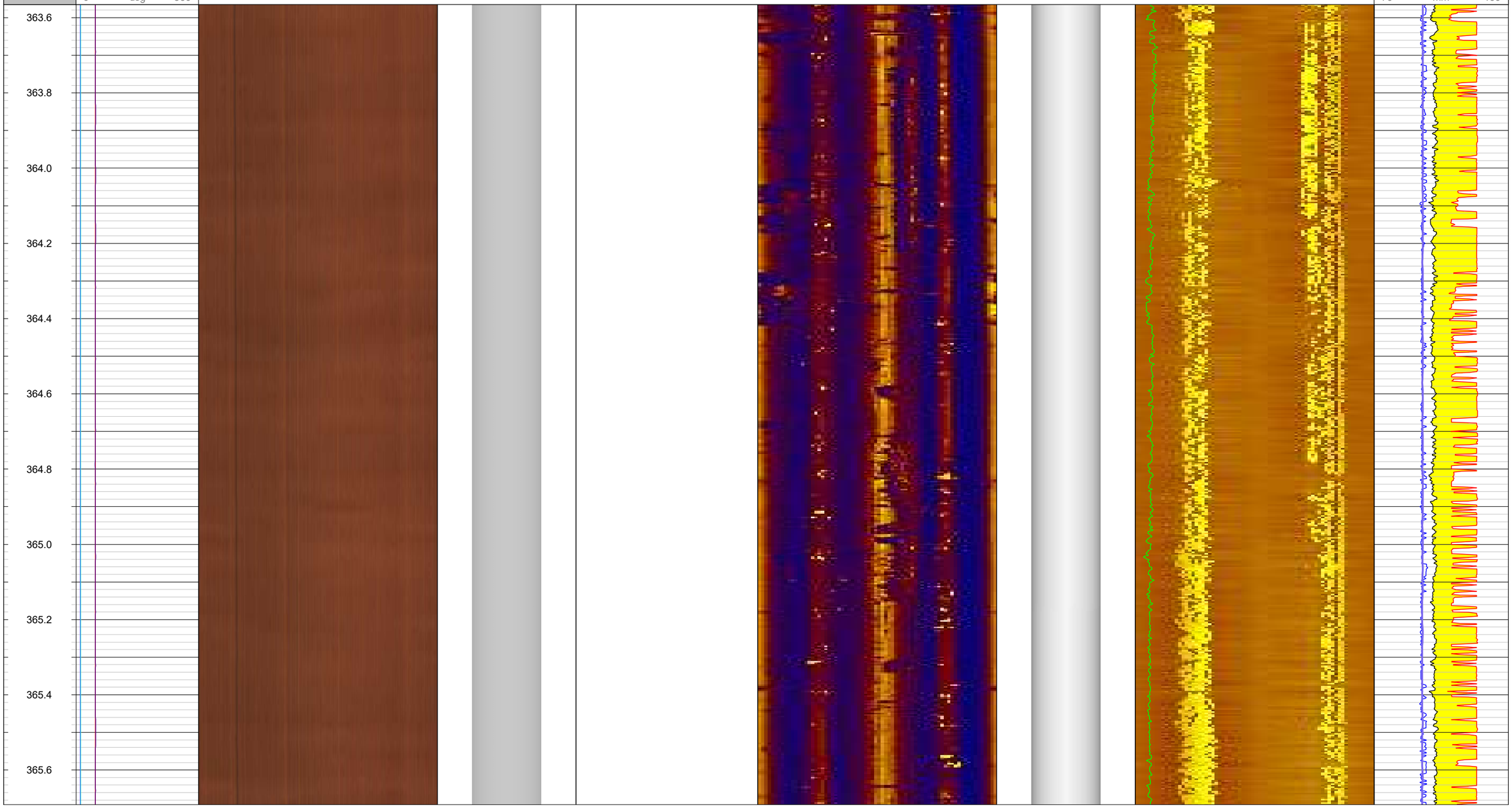
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

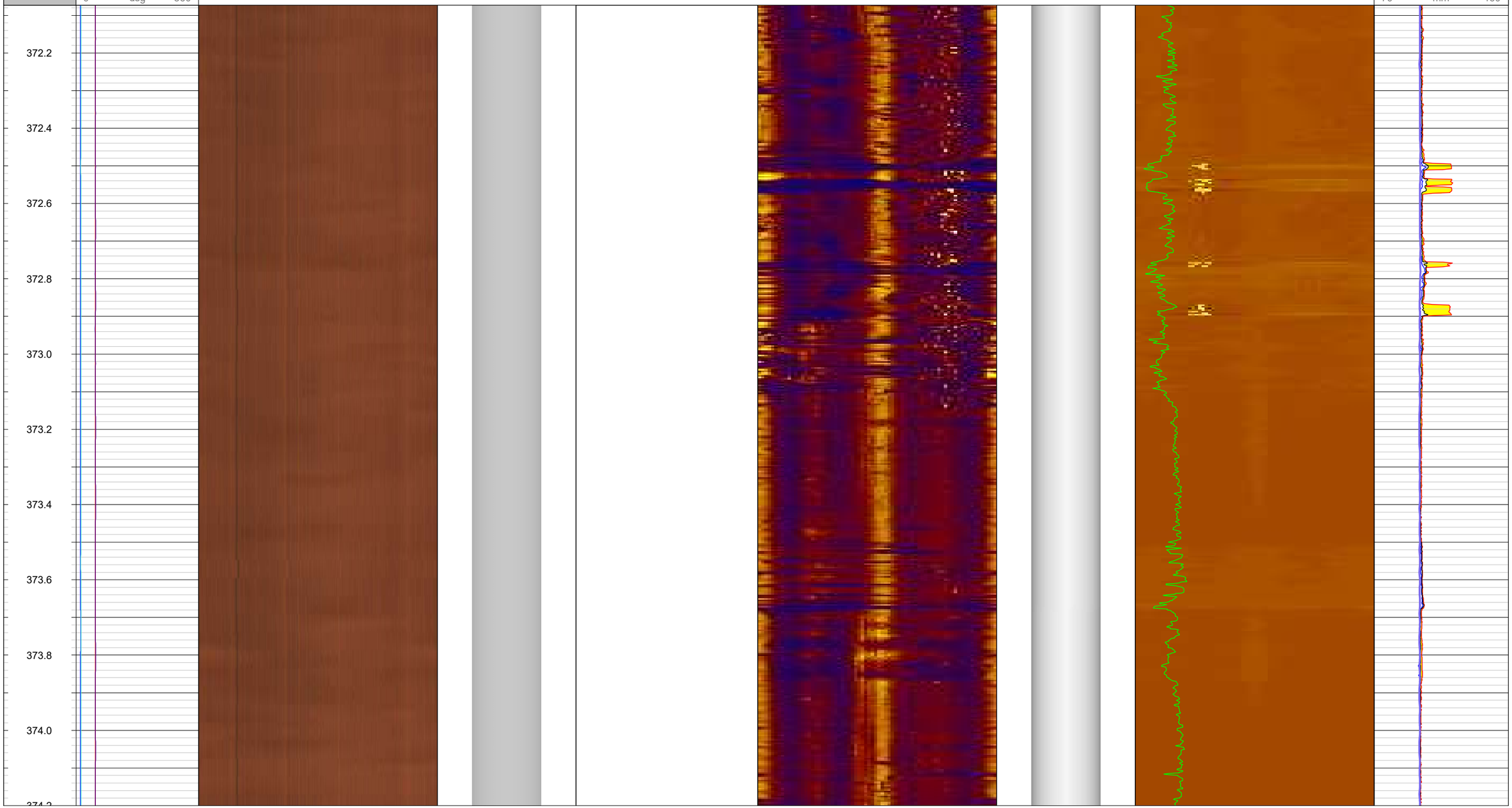


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
365.8								
366.0								
366.2								
366.4								
366.6								
366.8								
367.0								
367.2								
367.4								
367.6								
367.8								

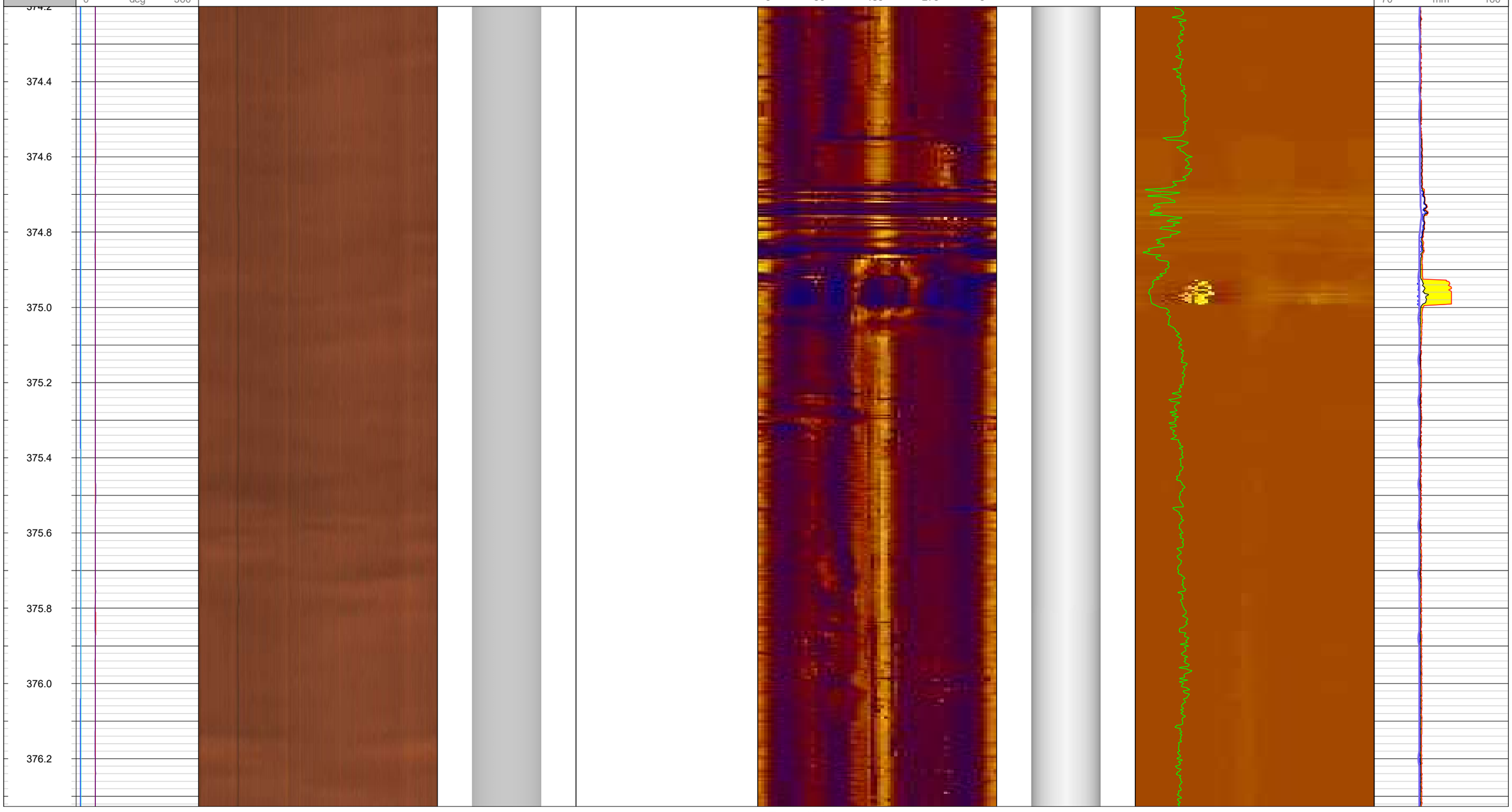
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
368.0								
368.2								
368.4								
368.6								
368.8								
369.0								
369.2								
369.4								
369.6								
369.8								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
370.0								
370.2								
370.4								
370.6								
370.8								
371.0								
371.2								
371.4								
371.6								
371.8								
372.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
376.4								
376.6								
376.8								
377.0								
377.2								
377.4								
377.6								
377.8								
378.0								
378.2								
378.4								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
378.6								
378.8								
379.0								
379.2								
379.4								
379.6								
379.8								
380.0								
380.2								
380.4								

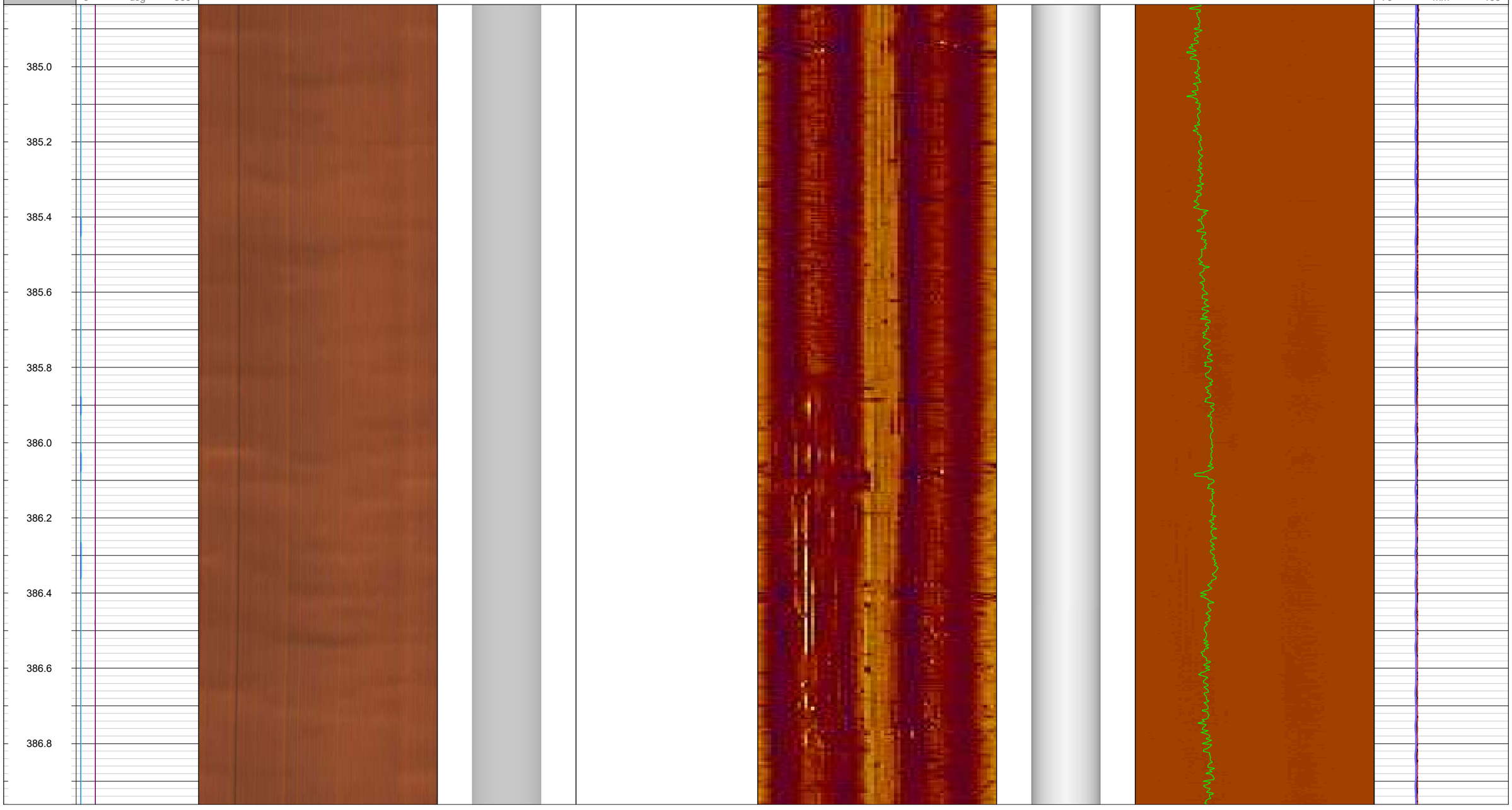
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

380.6
380.8
381.0
381.2
381.4
381.6
381.8
382.0
382.2
382.4
382.6

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

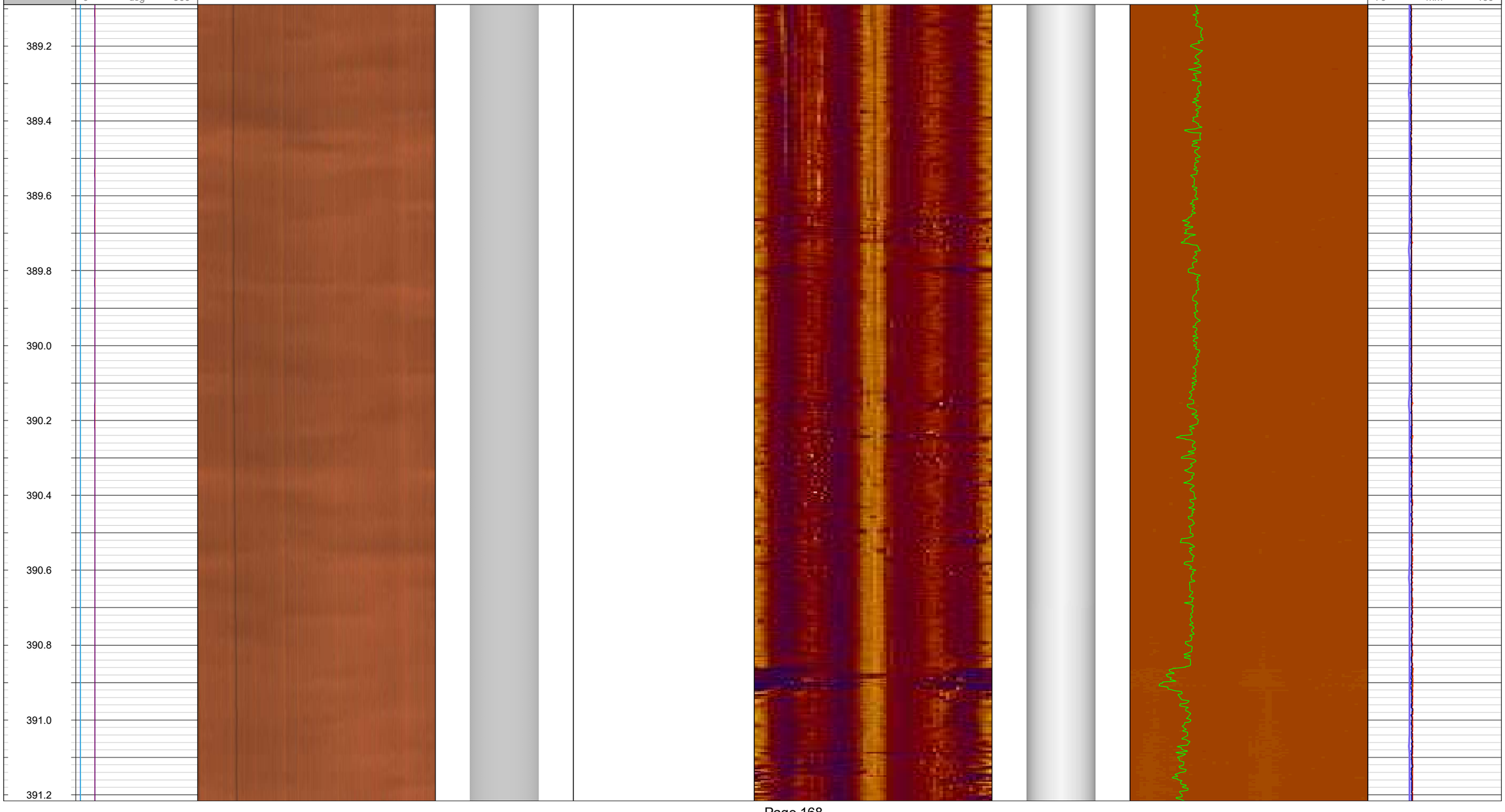
382.8
383.0
383.2
383.4
383.6
383.8
384.0
384.2
384.4
384.6
384.8

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
387.0								
387.2								
387.4								
387.6								
387.8								
388.0								
388.2								
388.4								
388.6								
388.8								
389.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

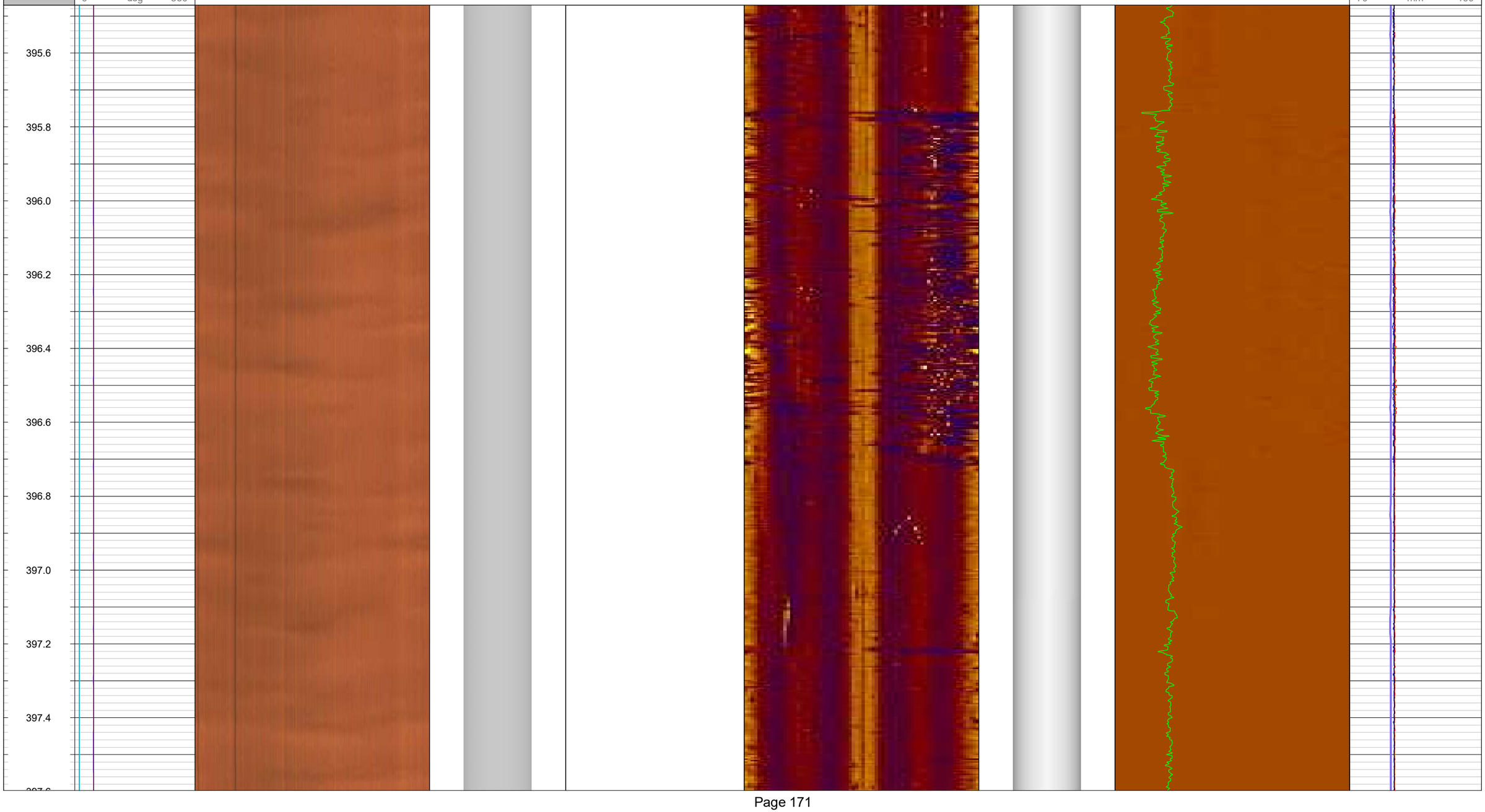


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

391.4
391.6
391.8
392.0
392.2
392.4
392.6
392.8
393.0
393.2

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
393.4								
393.6								
393.8								
394.0								
394.2								
394.4								
394.6								
394.8								
395.0								
395.2								
395.4								

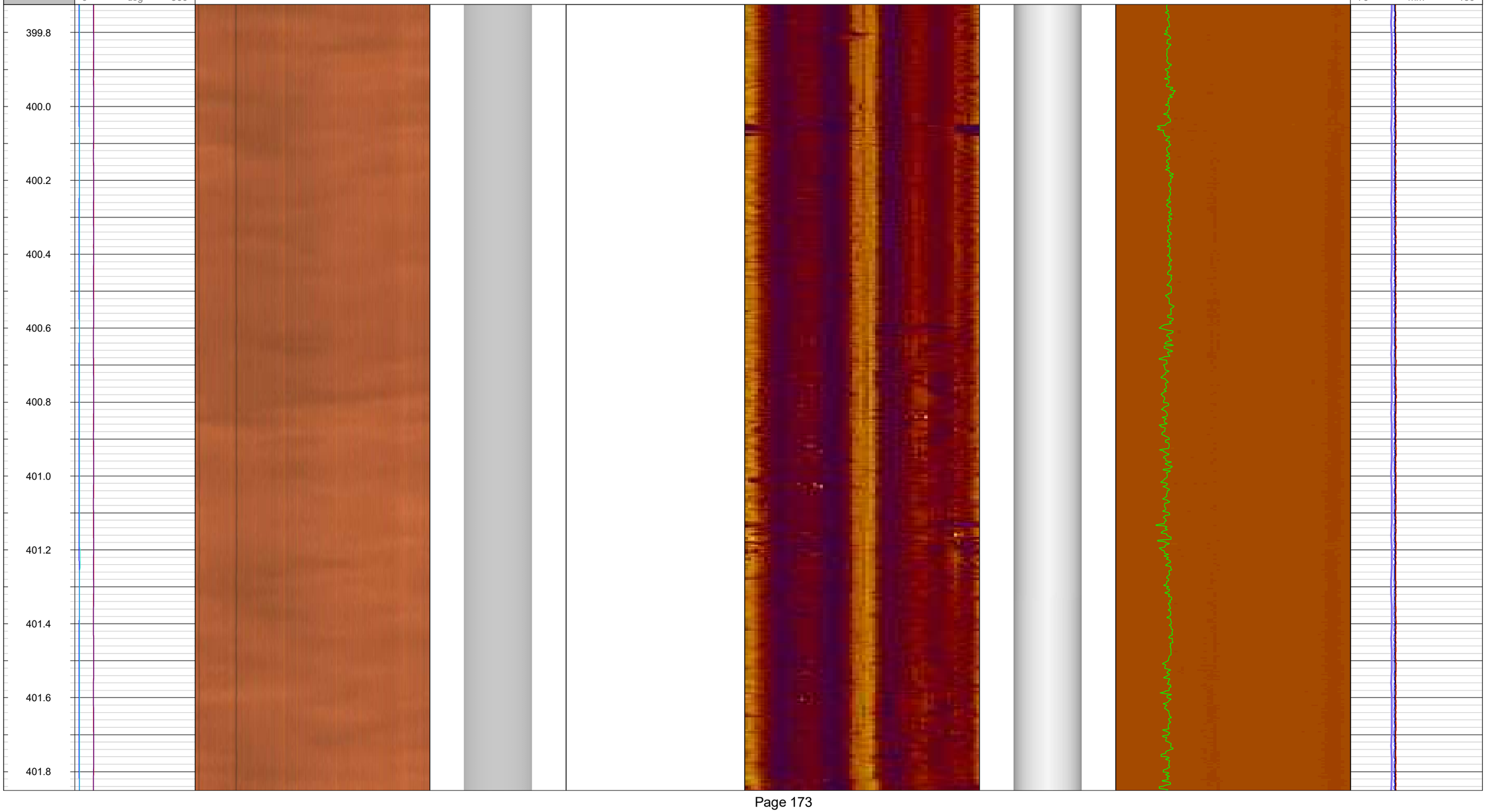
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



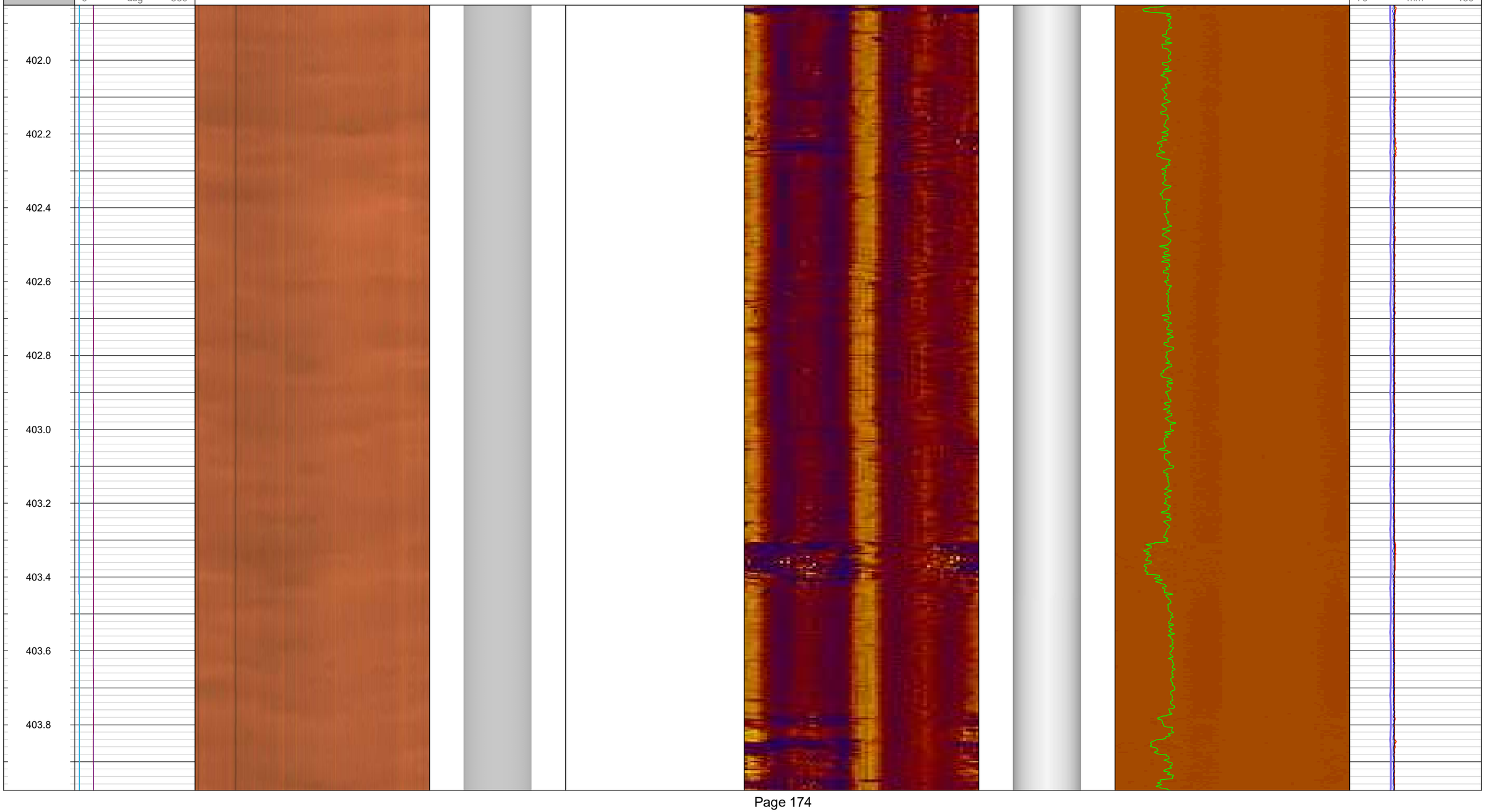
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

397.6
397.8
398.0
398.2
398.4
398.6
398.8
399.0
399.2
399.4
399.6

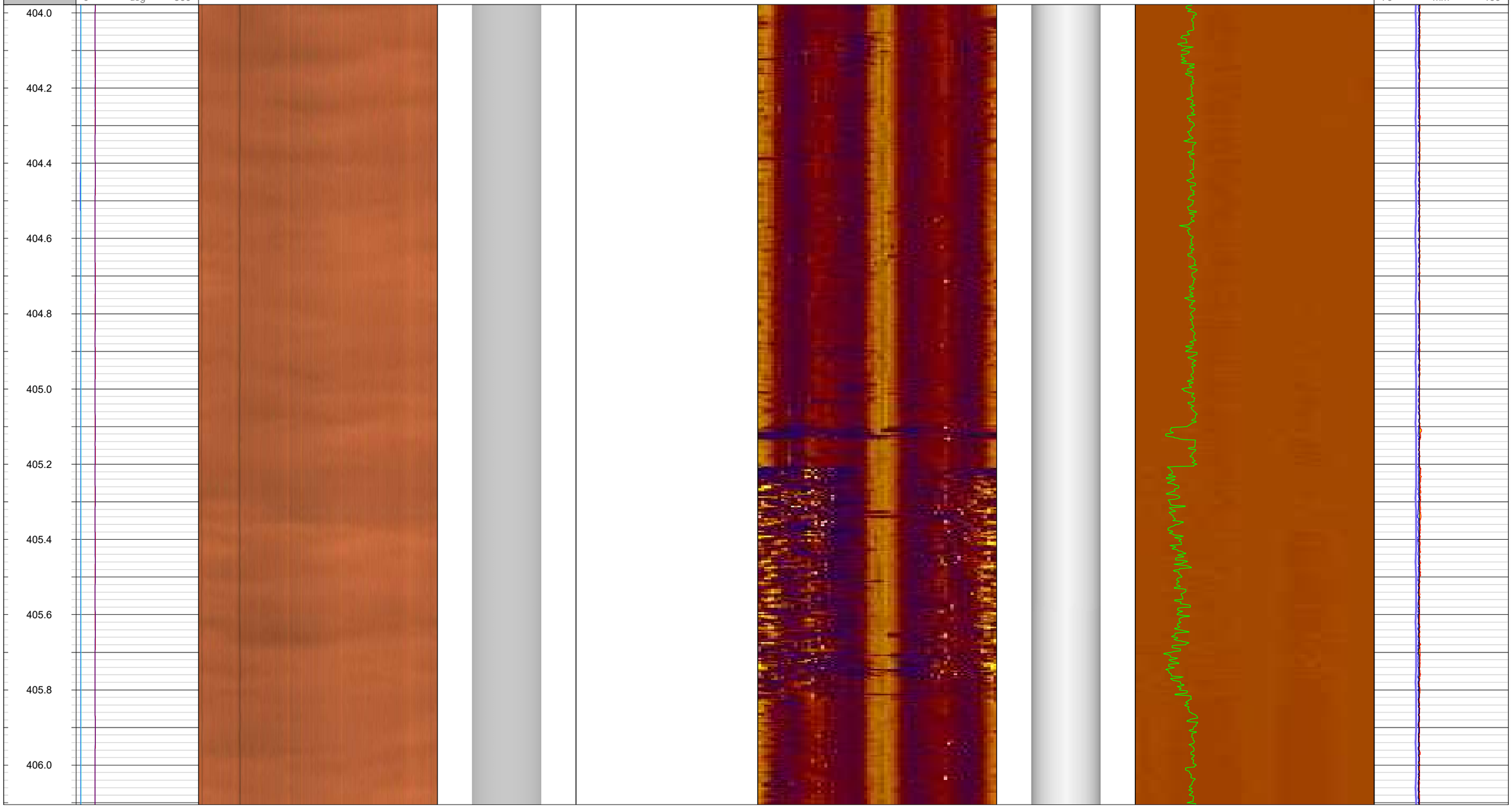
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

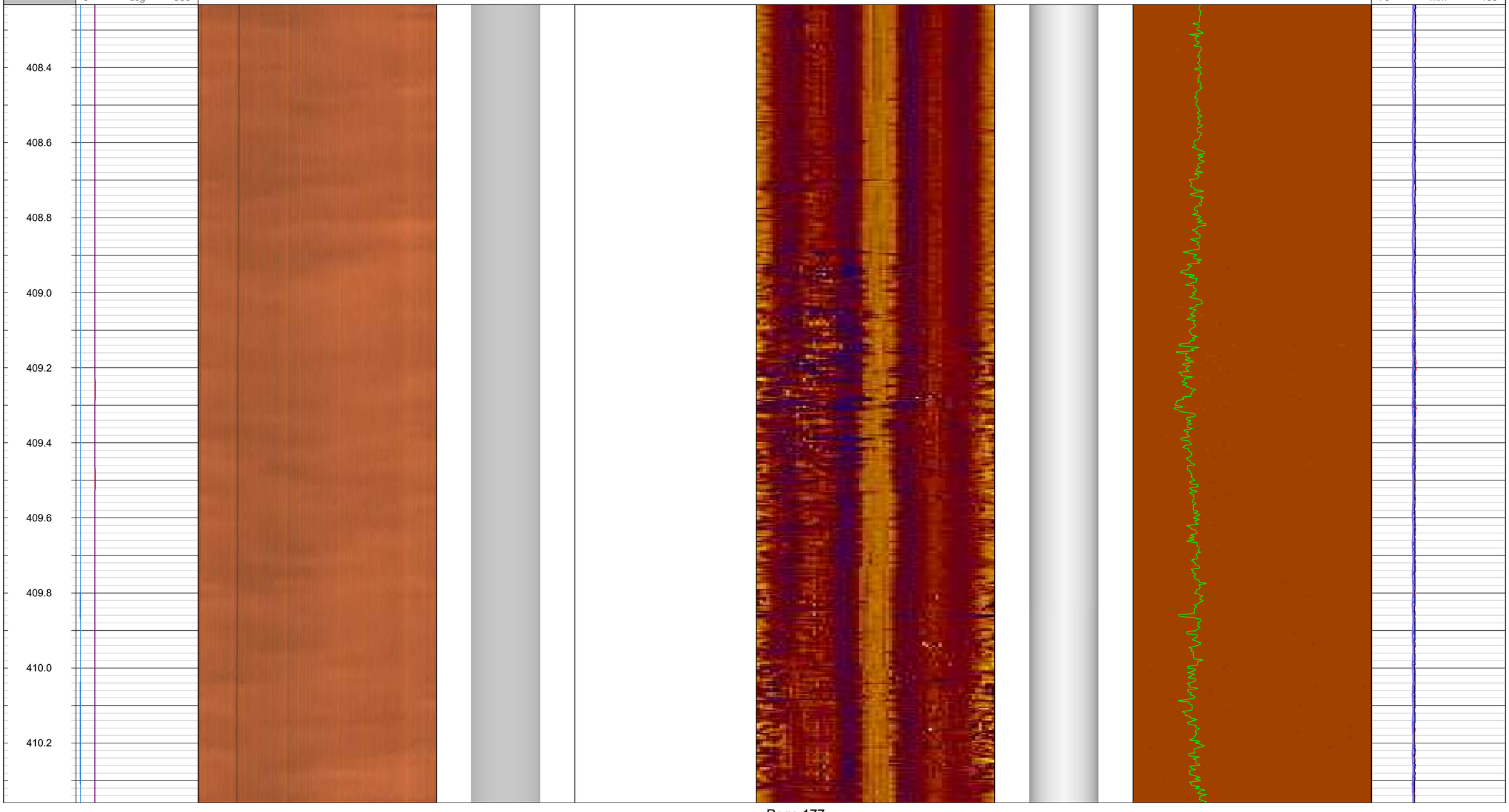


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

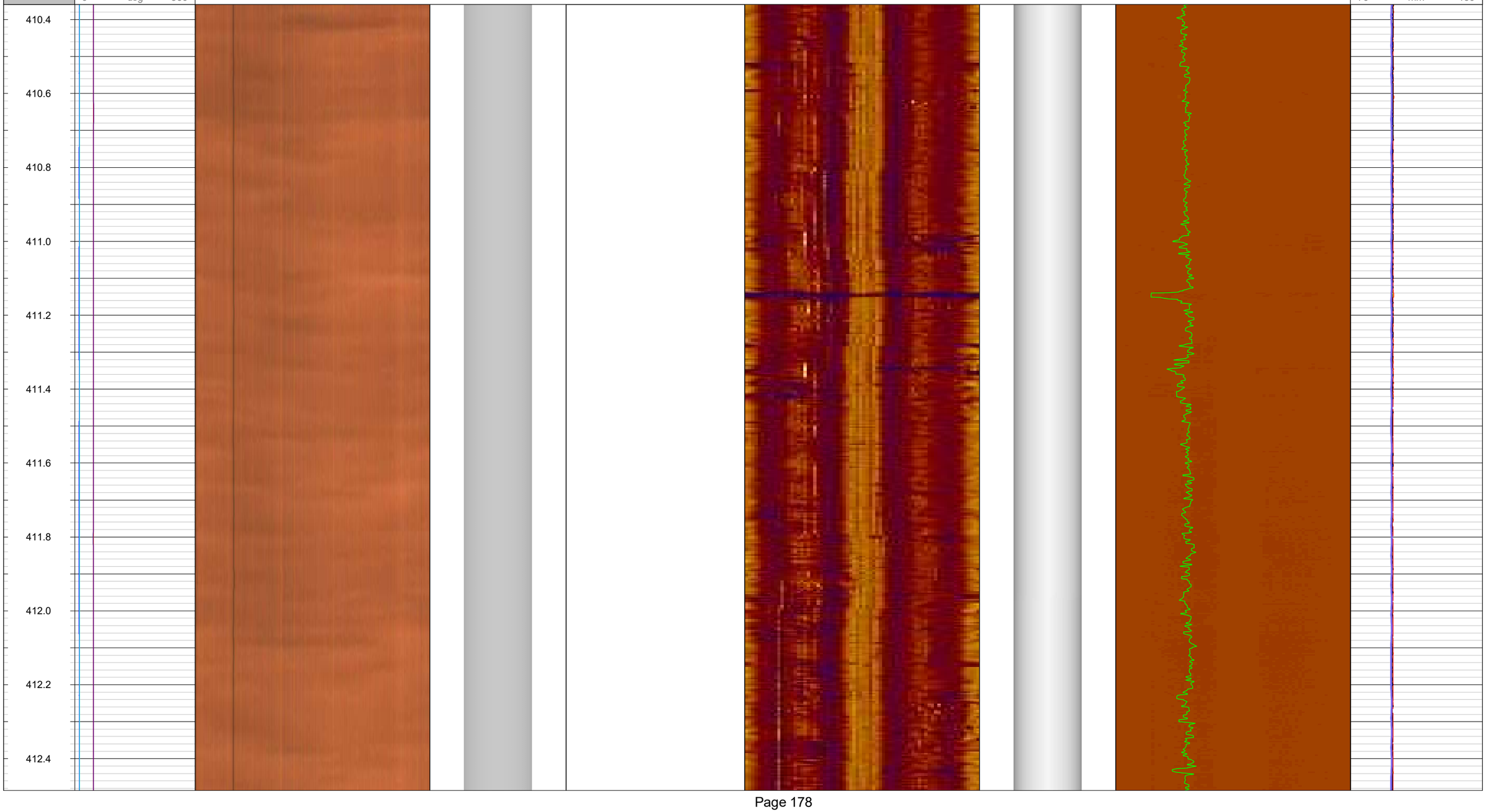


Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
406.2									
406.4									
406.6									
406.8									
407.0									
407.2									
407.4									
407.6									
407.8									
408.0									
408.2									

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



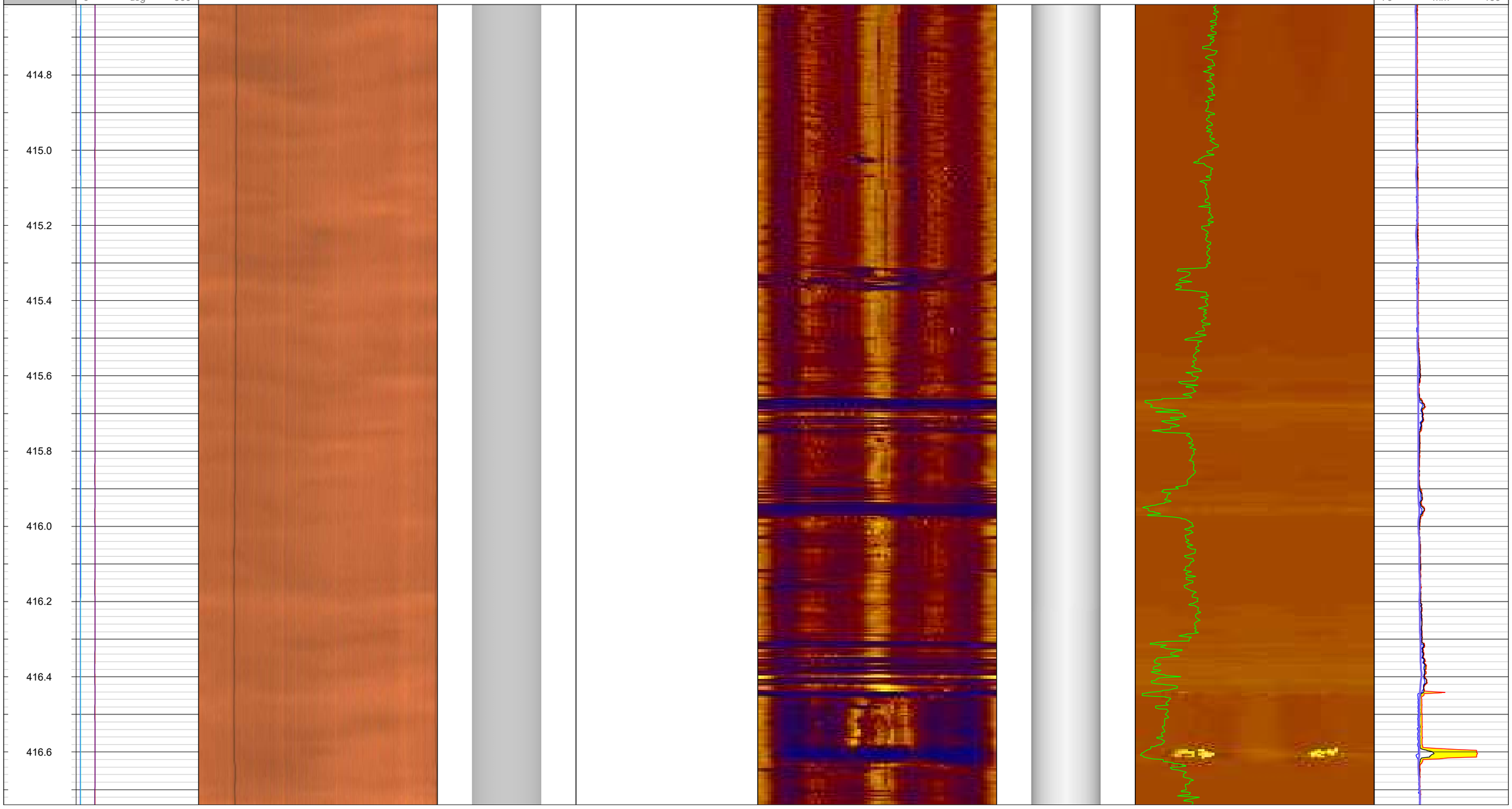
Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



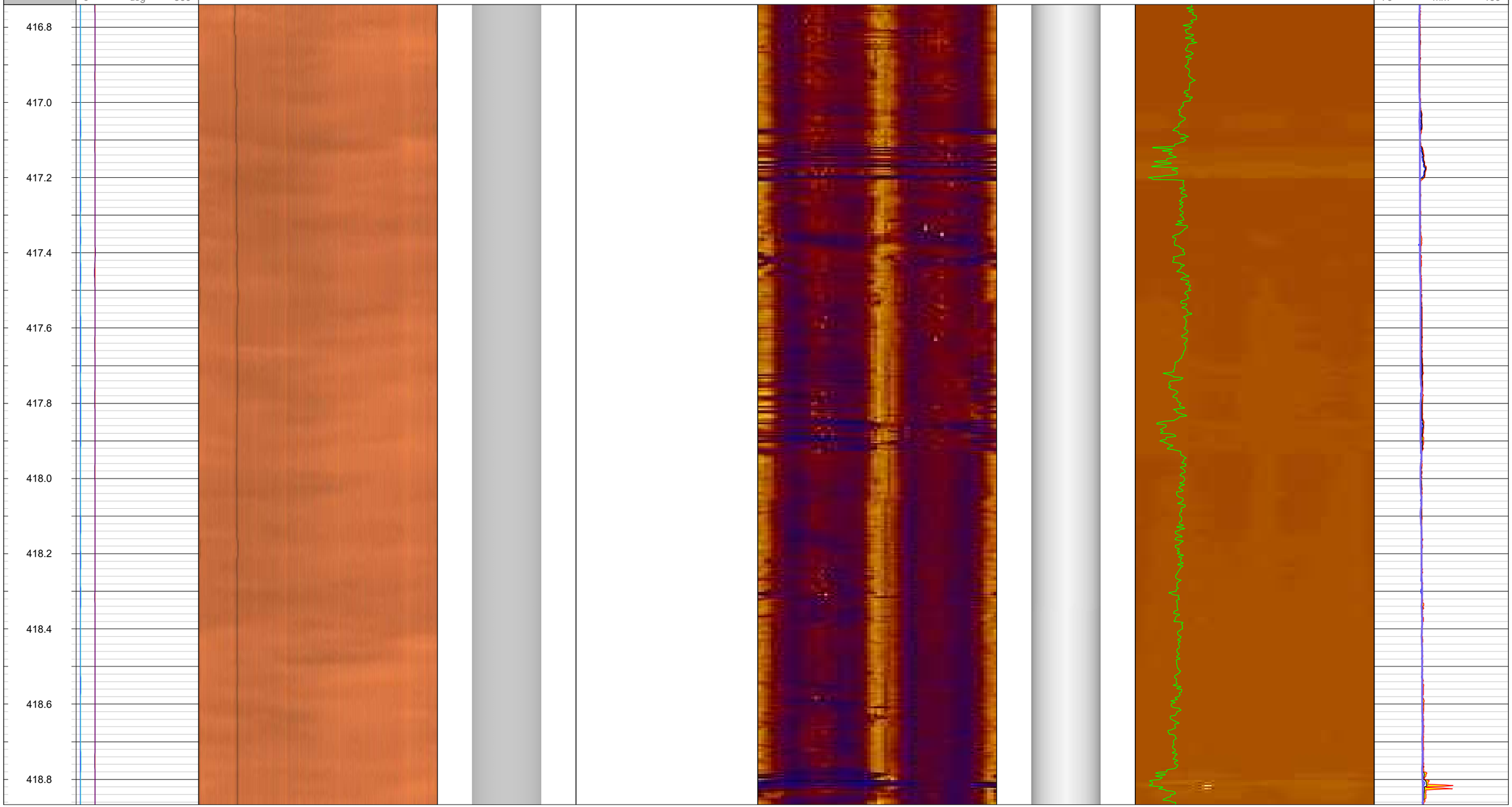
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

412.6
412.8
413.0
413.2
413.4
413.6
413.8
414.0
414.2
414.4
414.6

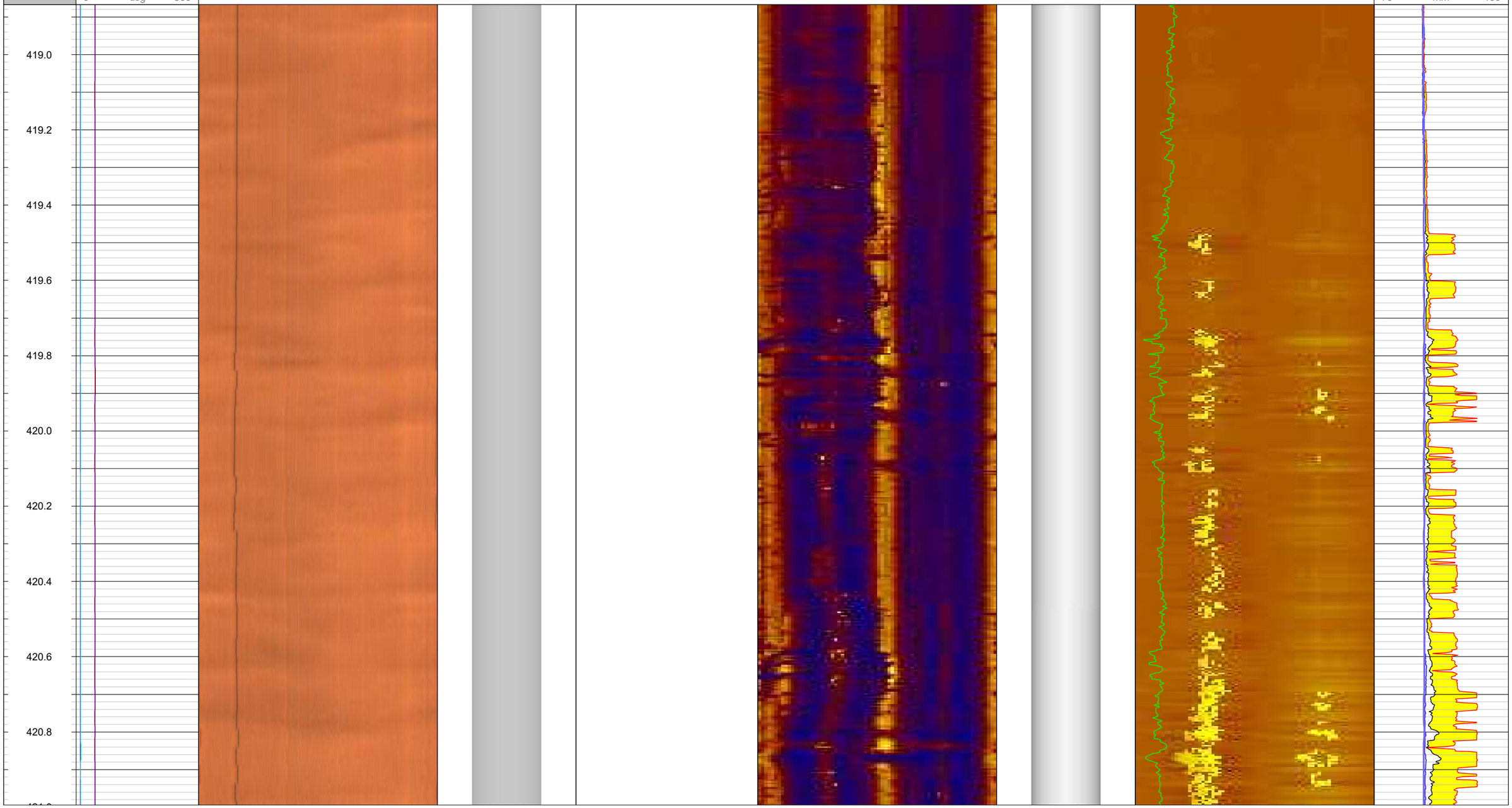
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



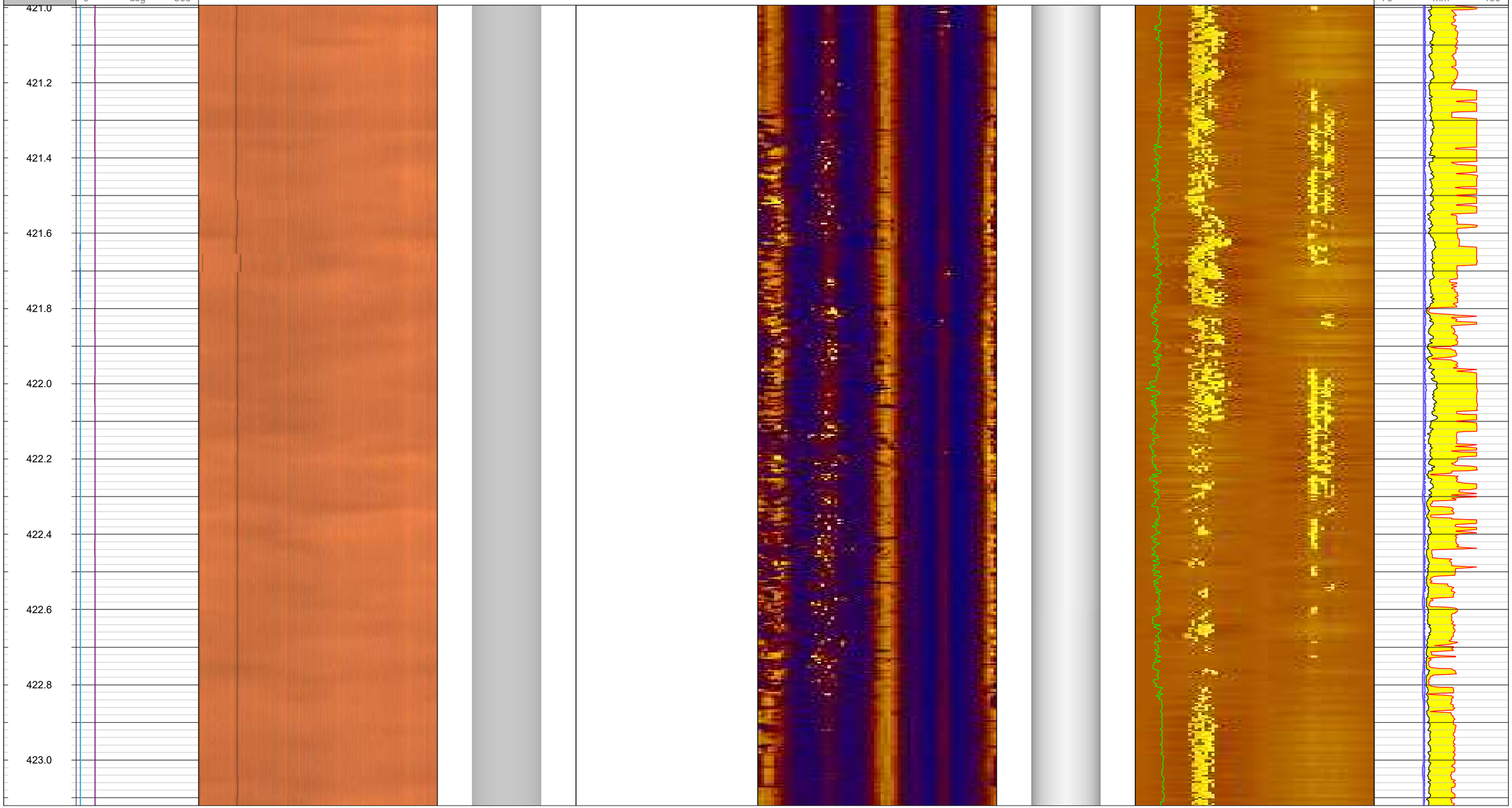
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



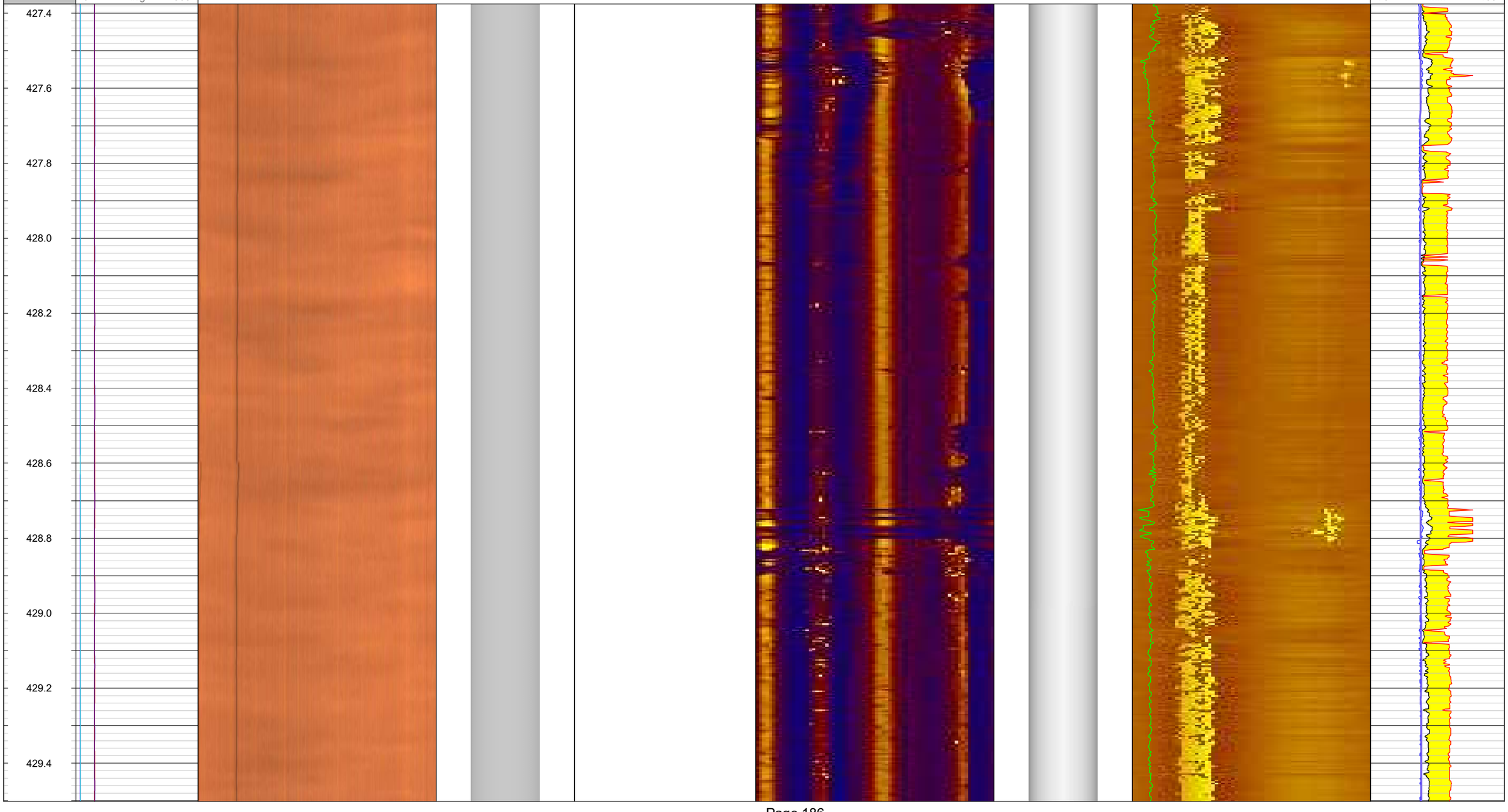
Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
1m:10m									



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
423.2								
423.4								
423.6								
423.8								
424.0								
424.2								
424.4								
424.6								
424.8								
425.0								
425.2								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
425.4								
425.6								
425.8								
426.0								
426.2								
426.4								
426.6								
426.8								
427.0								
427.2								

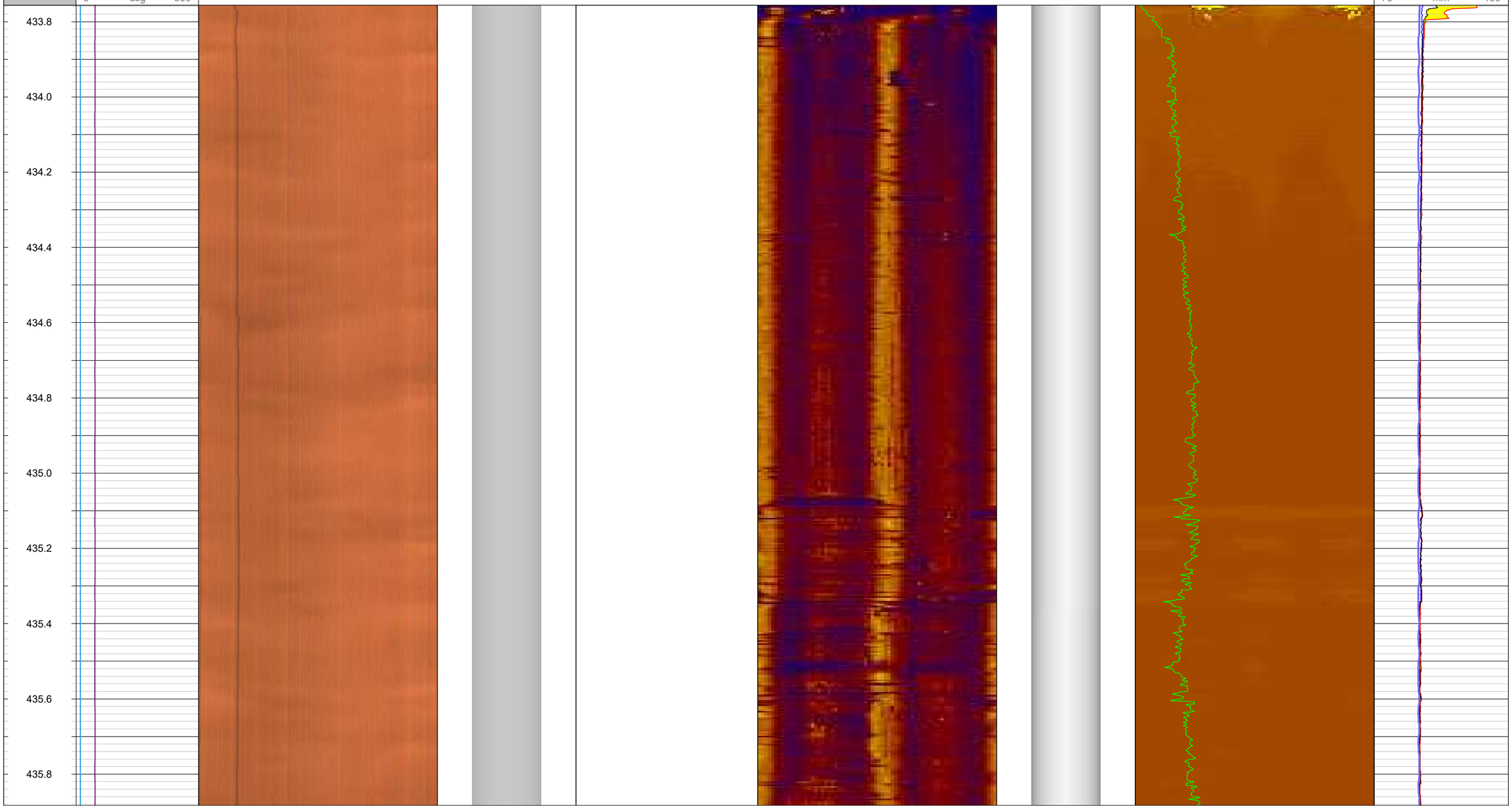
Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
1m:10m									



Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
1m:10m									
429.6									
429.8									
430.0									
430.2									
430.4									
430.6									
430.8									
431.0									
431.2									
431.4									
431.6									

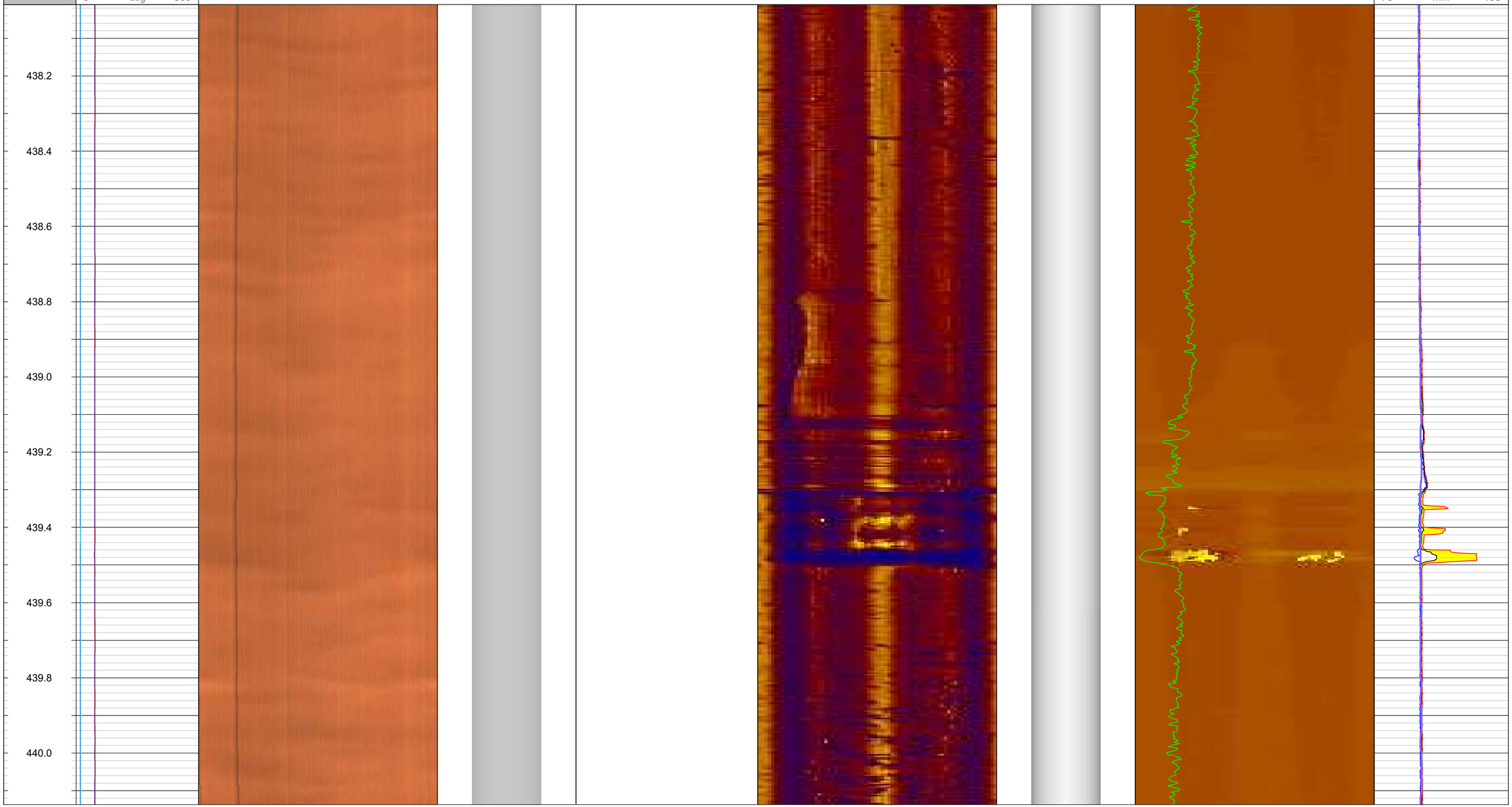
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
1m:10m								
431.8								
432.0								
432.2								
432.4								
432.6								
432.8								
433.0								
433.2								
433.4								
433.6								

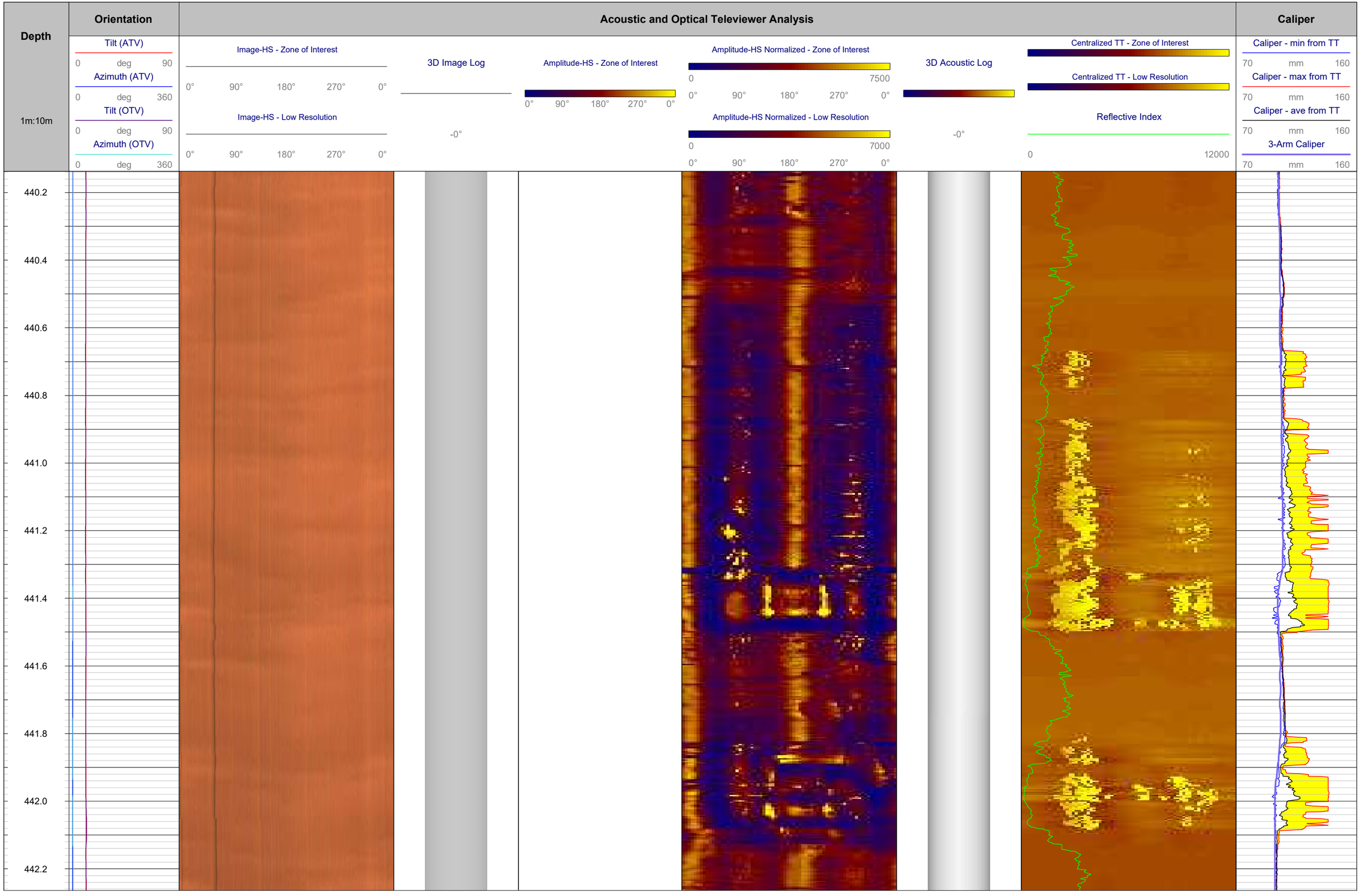
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



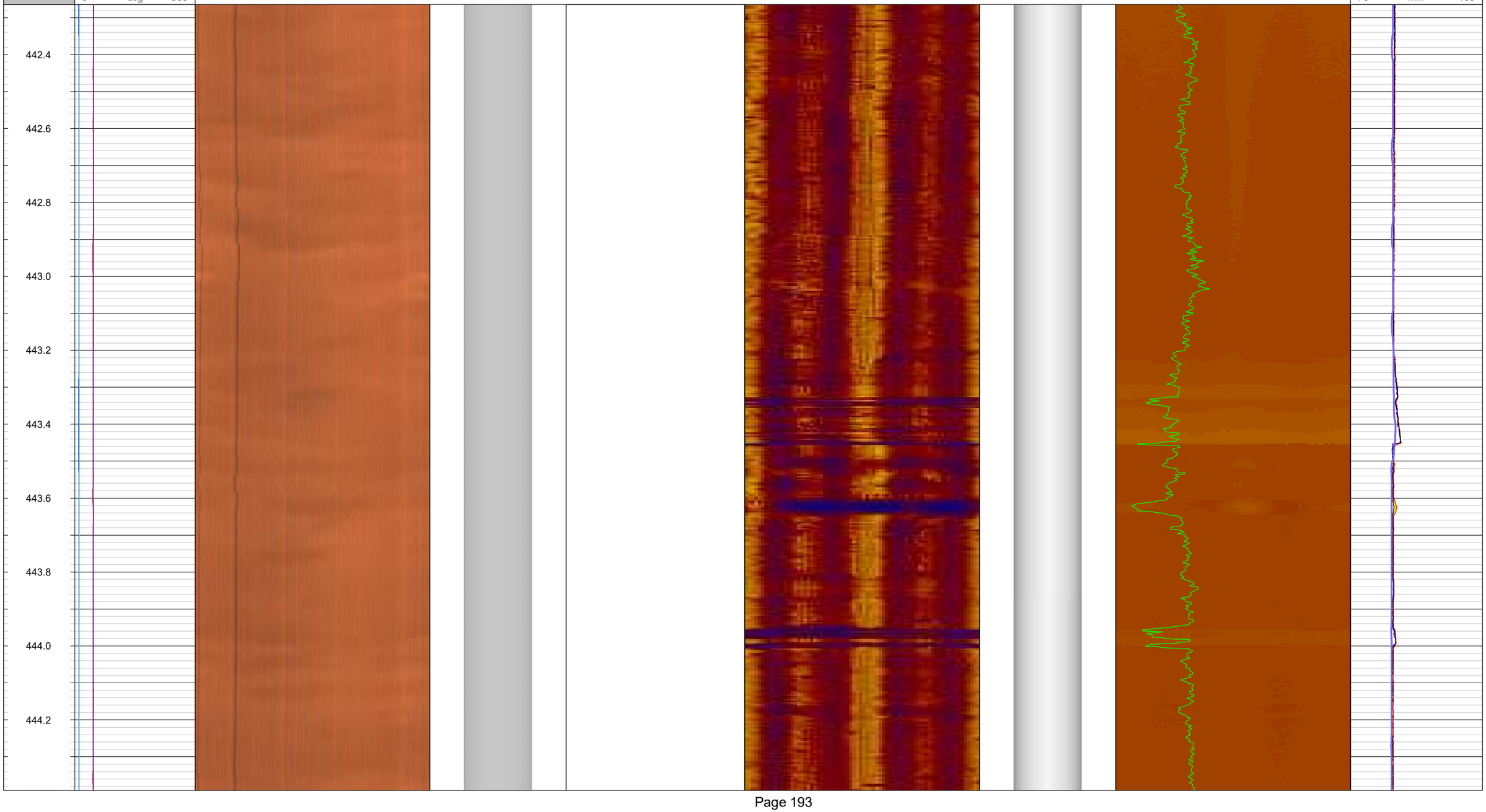
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
436.0								
436.2								
436.4								
436.6								
436.8								
437.0								
437.2								
437.4								
437.6								
437.8								
438.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160




Depth
1m:10m
Orientation
Tilt (ATV)
0 deg 90
Azimuth (ATV)
0 deg 360
Tilt (OTV)
0 deg 90
Azimuth (OTV)
0 deg 360
Acoustic and Optical Televiewer Analysis
Image-HS - Zone of Interest
0° 90° 180° 270° 0°
Image-HS - Low Resolution
0° 90° 180° 270° 0°
3D Image Log
-0°
Amplitude-HS - Zone of Interest
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Zone of Interest
0 7500
0° 90° 180° 270° 0°
Amplitude-HS Normalized - Low Resolution
0 7000
0° 90° 180° 270° 0°
3D Acoustic Log
-0°
Centralized TT - Zone of Interest
Centralized TT - Low Resolution
Reflective Index
0 12000
Caliper
Caliper - min from TT
70 mm 160
Caliper - max from TT
70 mm 160
Caliper - ave from TT
70 mm 160
3-Arm Caliper
70 mm 160
440.2
440.4
440.6
440.8
441.0
441.2
441.4
441.6
441.8
442.0
442.2

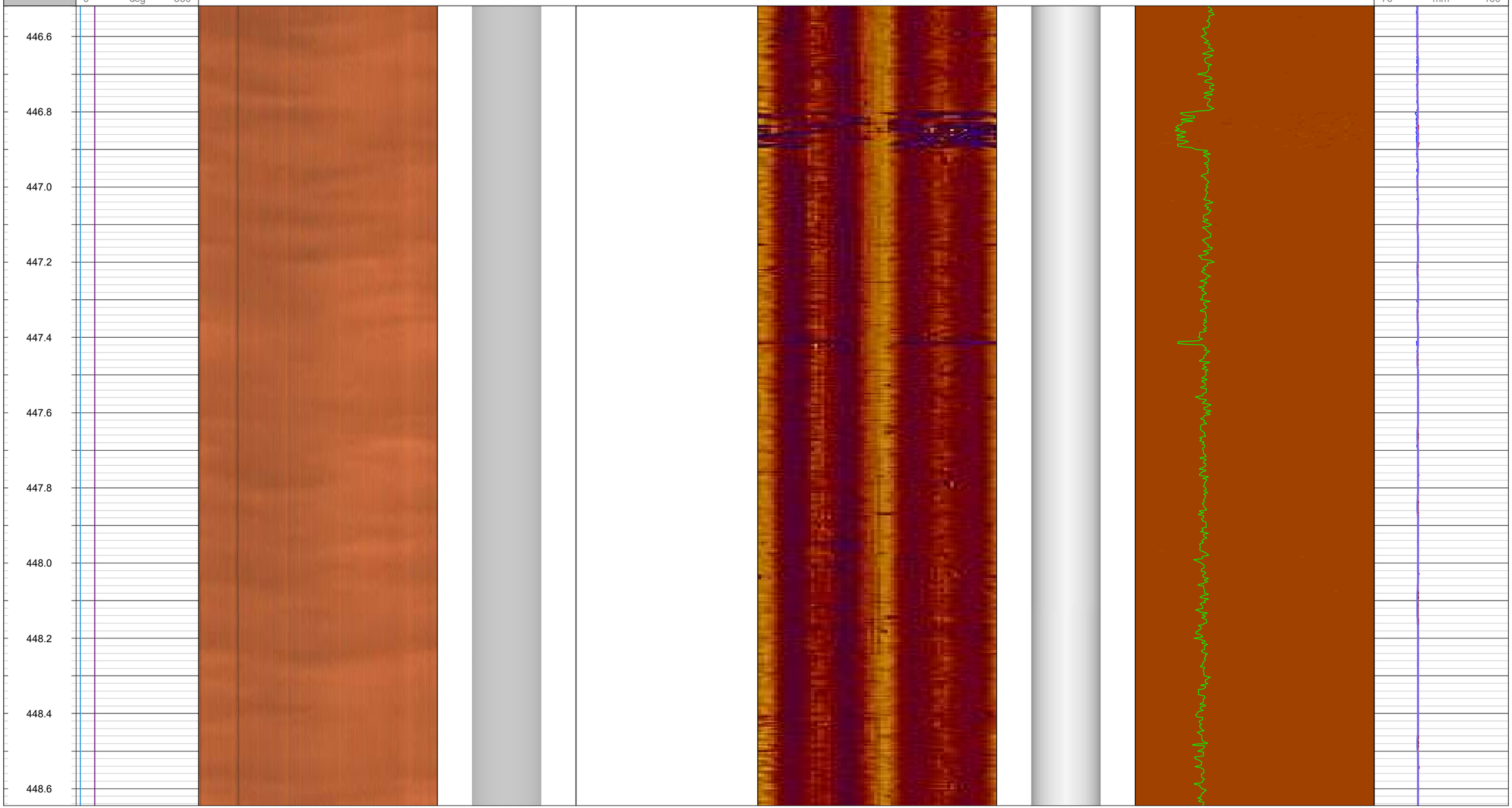
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

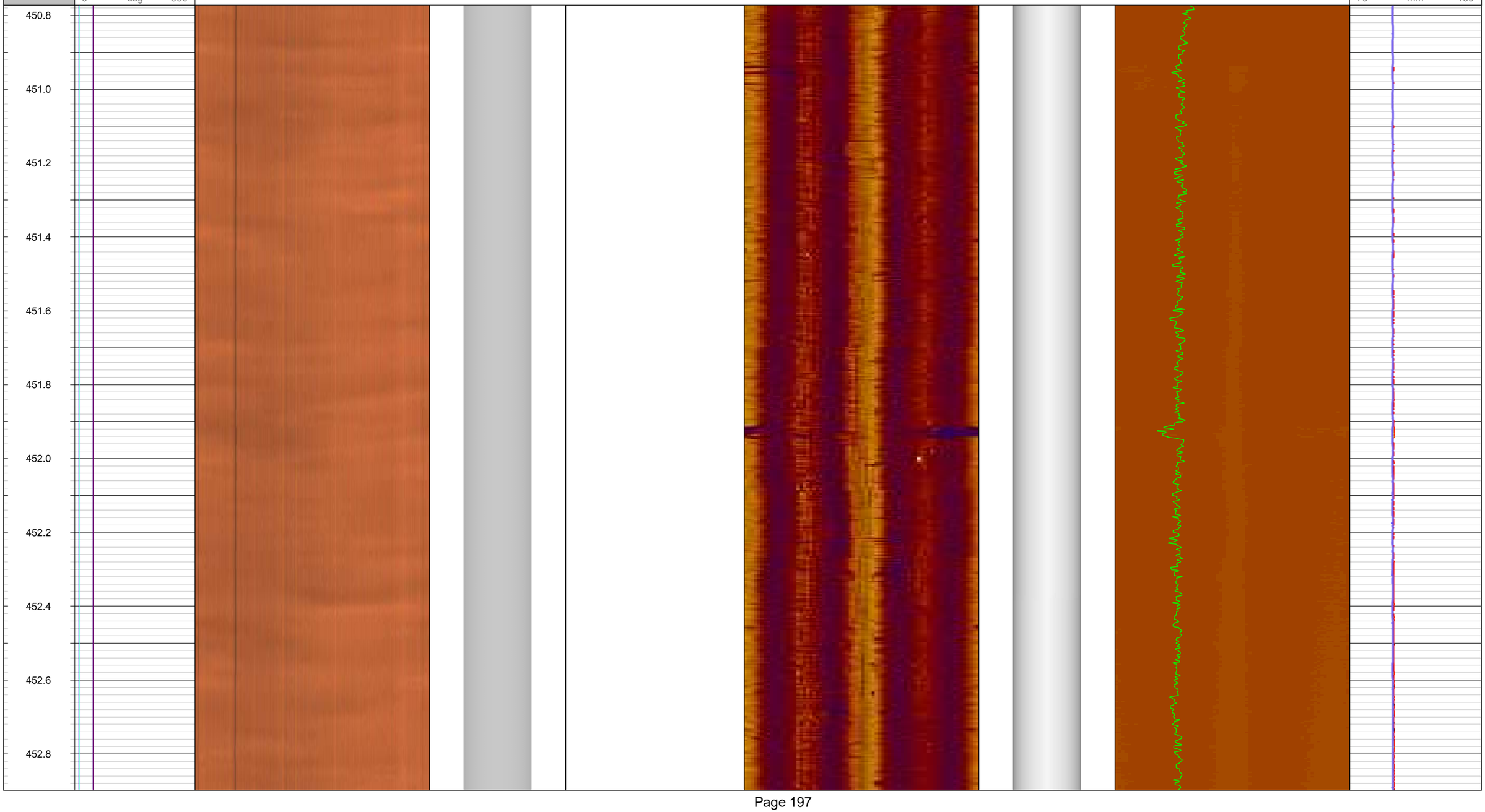
444.4
444.6
444.8
445.0
445.2
445.4
445.6
445.8
446.0
446.2
446.4

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

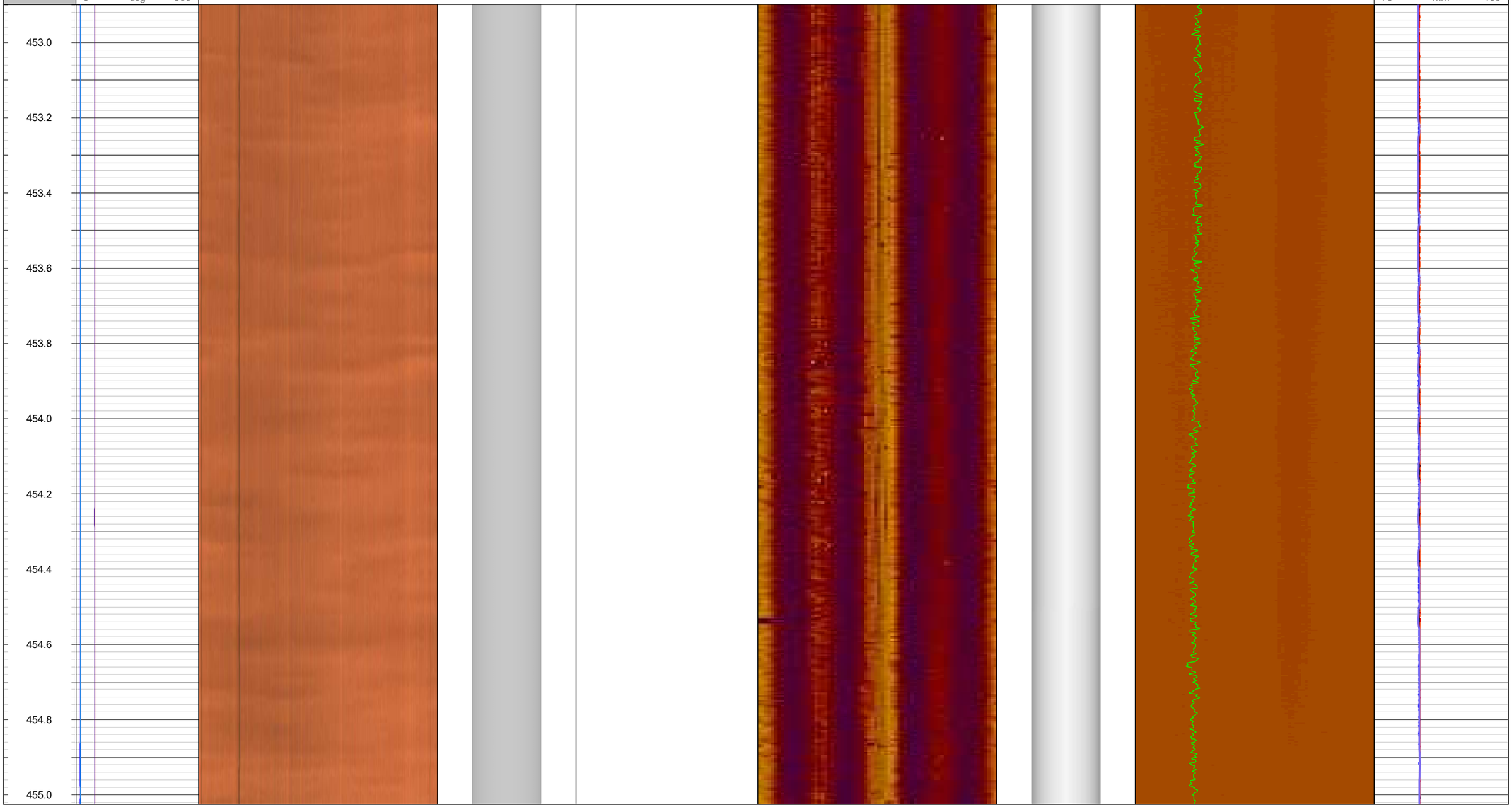


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
448.8								
449.0								
449.2								
449.4								
449.6								
449.8								
450.0								
450.2								
450.4								
450.6								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
455.2								
455.4								
455.6								
455.8								
456.0								
456.2								
456.4								
456.6								
456.8								
457.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
457.2								
457.4								
457.6								
457.8								
458.0								
458.2								
458.4								
458.6								
458.8								
459.0								
459.2								

Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
459.4									
459.6									
459.8									
460.0									
460.2									
460.4									
460.6									
460.8									
461.0									
461.2									
461.4									

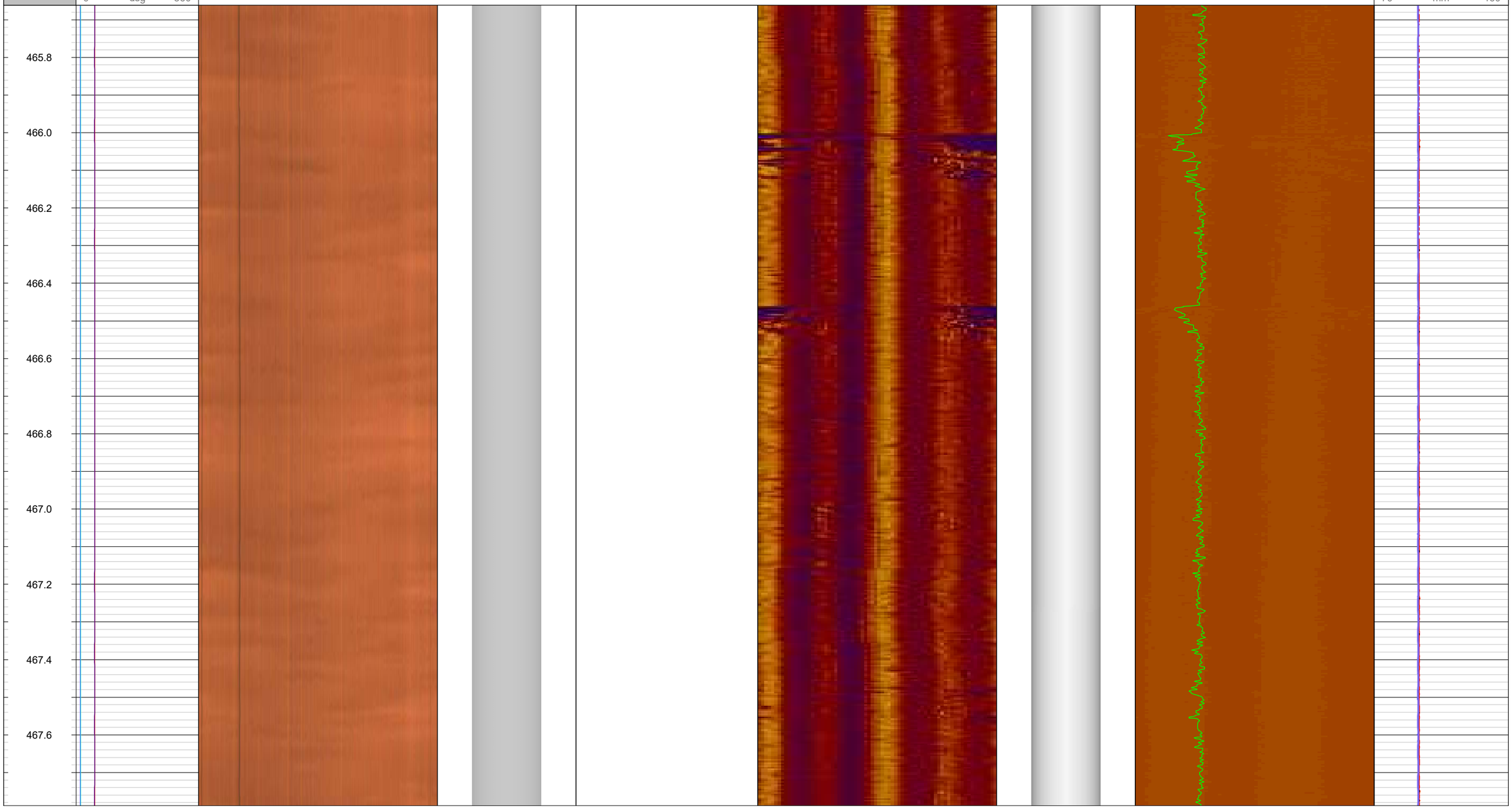
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

461.6
461.8
462.0
462.2
462.4
462.6
462.8
463.0
463.2
463.4

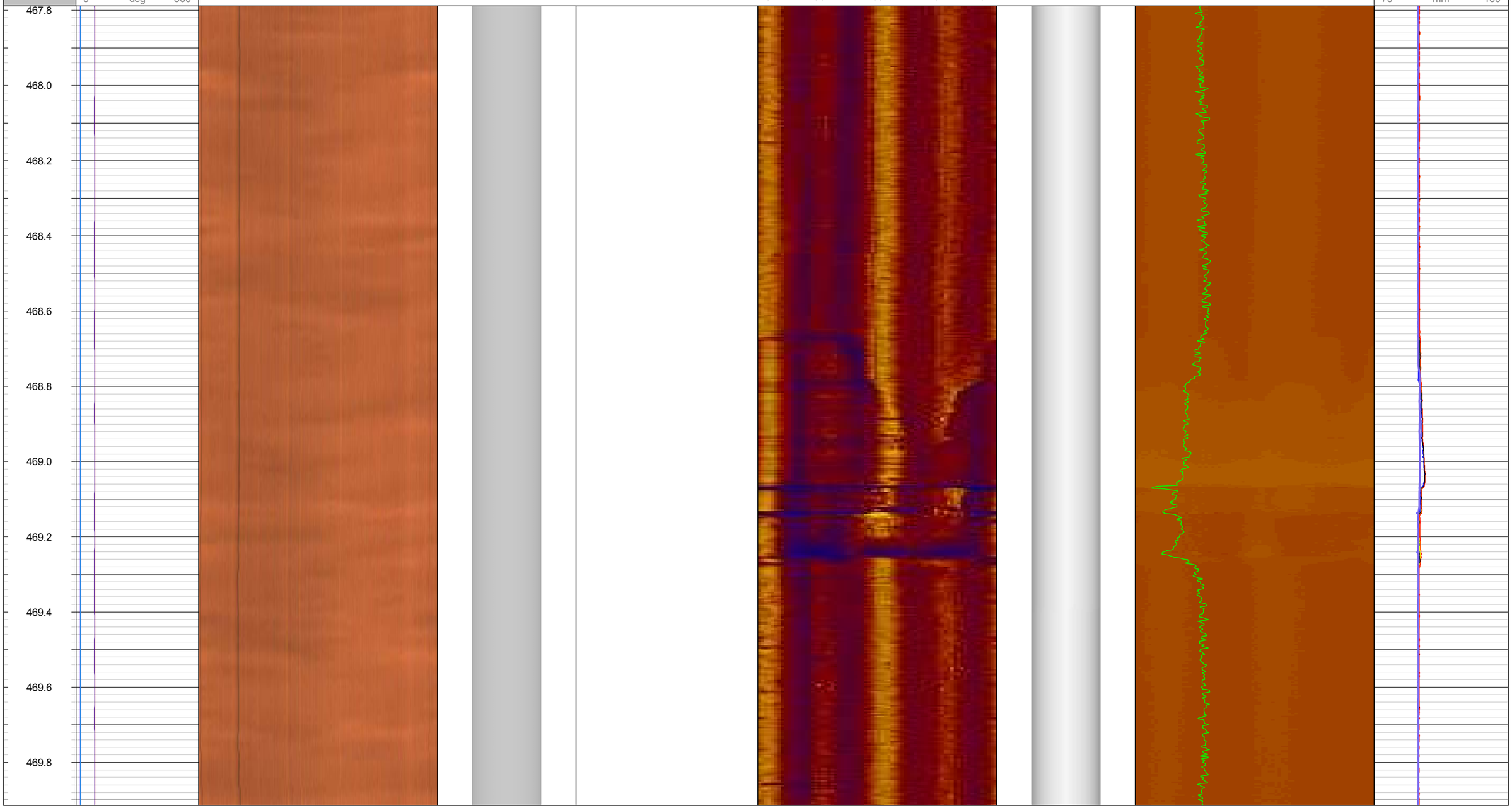
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

463.6
463.8
464.0
464.2
464.4
464.6
464.8
465.0
465.2
465.4
465.6

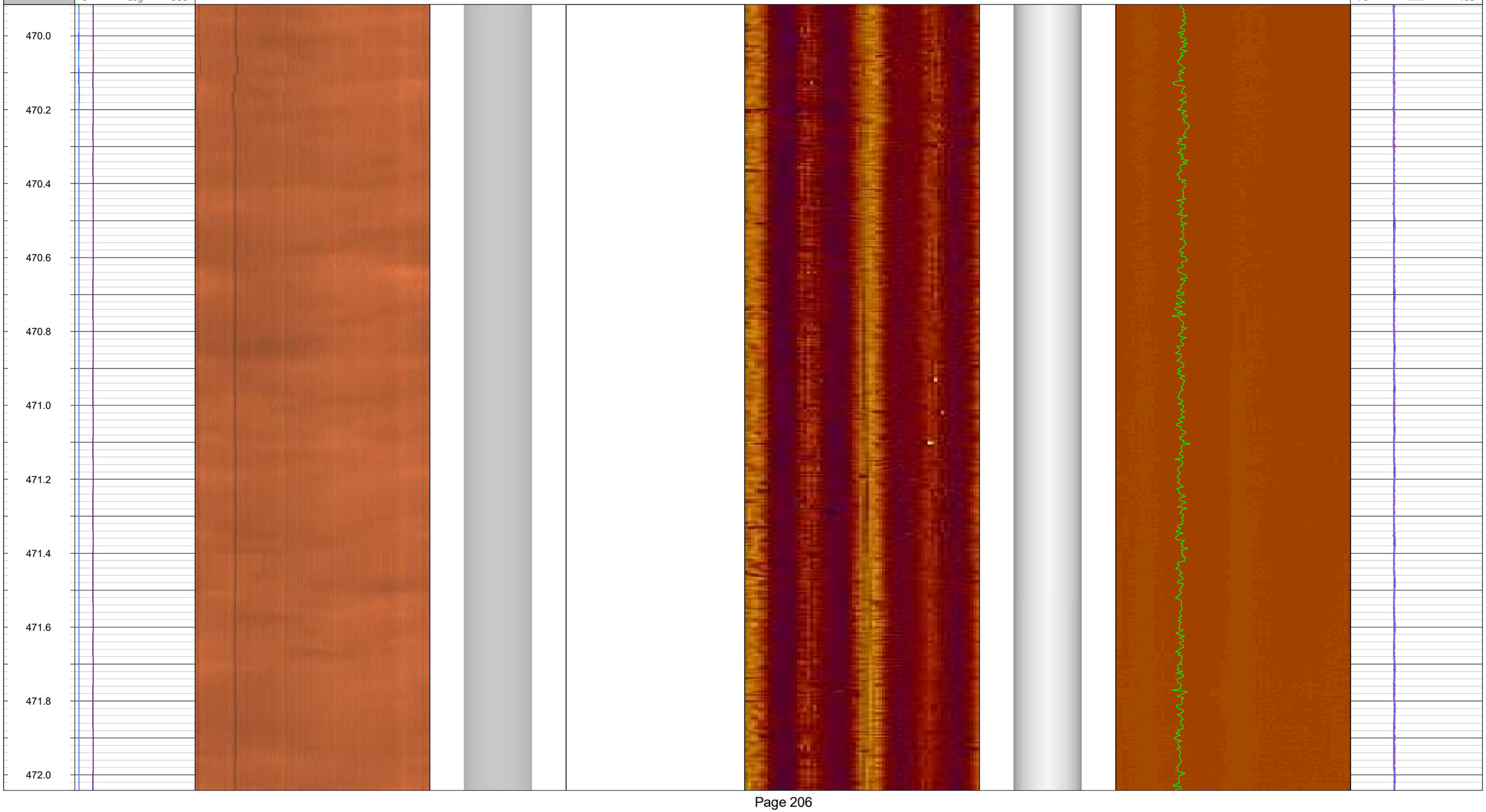
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

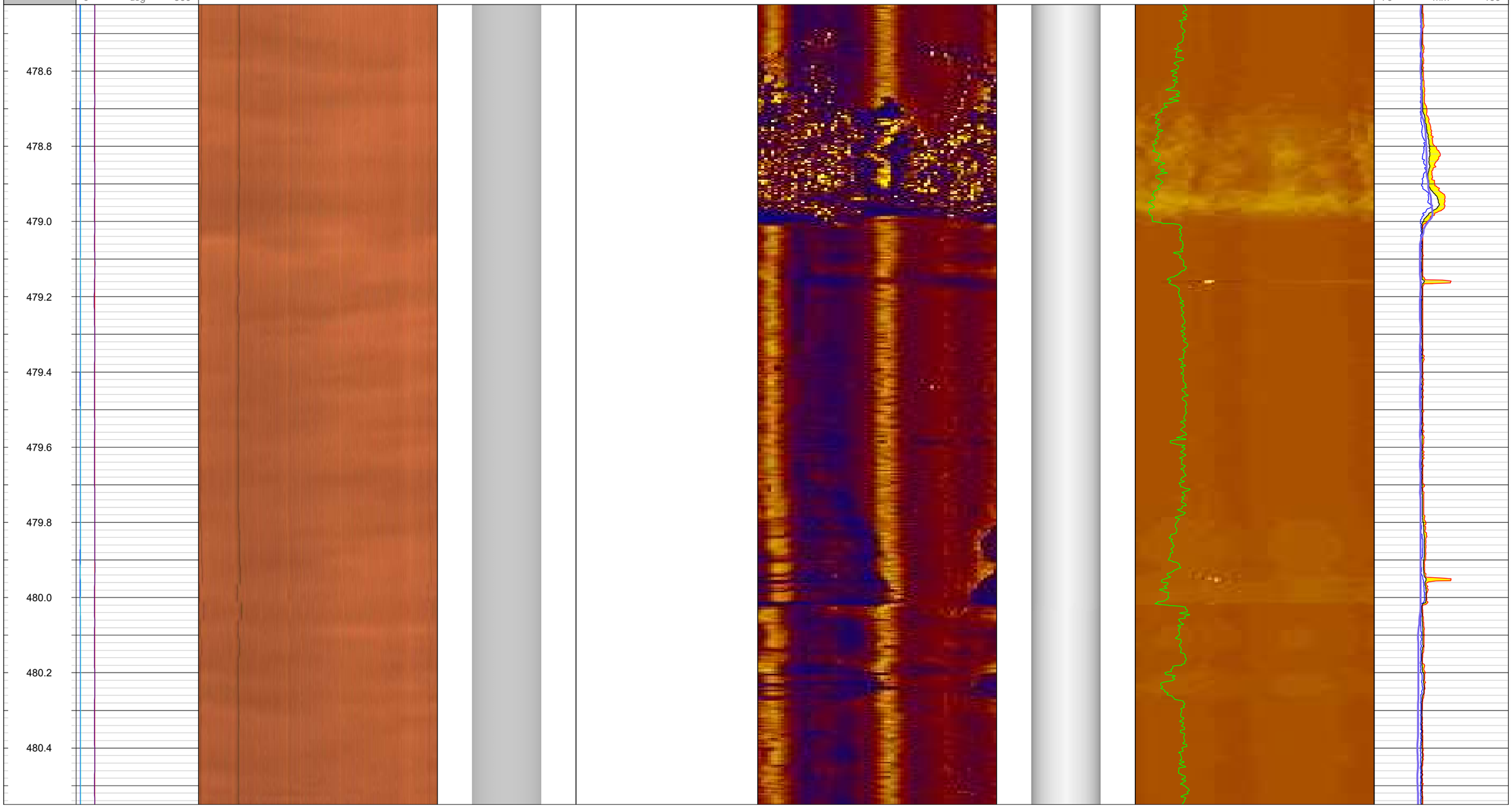


Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
472.2									
472.4									
472.6									
472.8									
473.0									
473.2									
473.4									
473.6									
473.8									
474.0									

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
474.2								
474.4								
474.6								
474.8								
475.0								
475.2								
475.4								
475.6								
475.8								
476.0								
476.2								

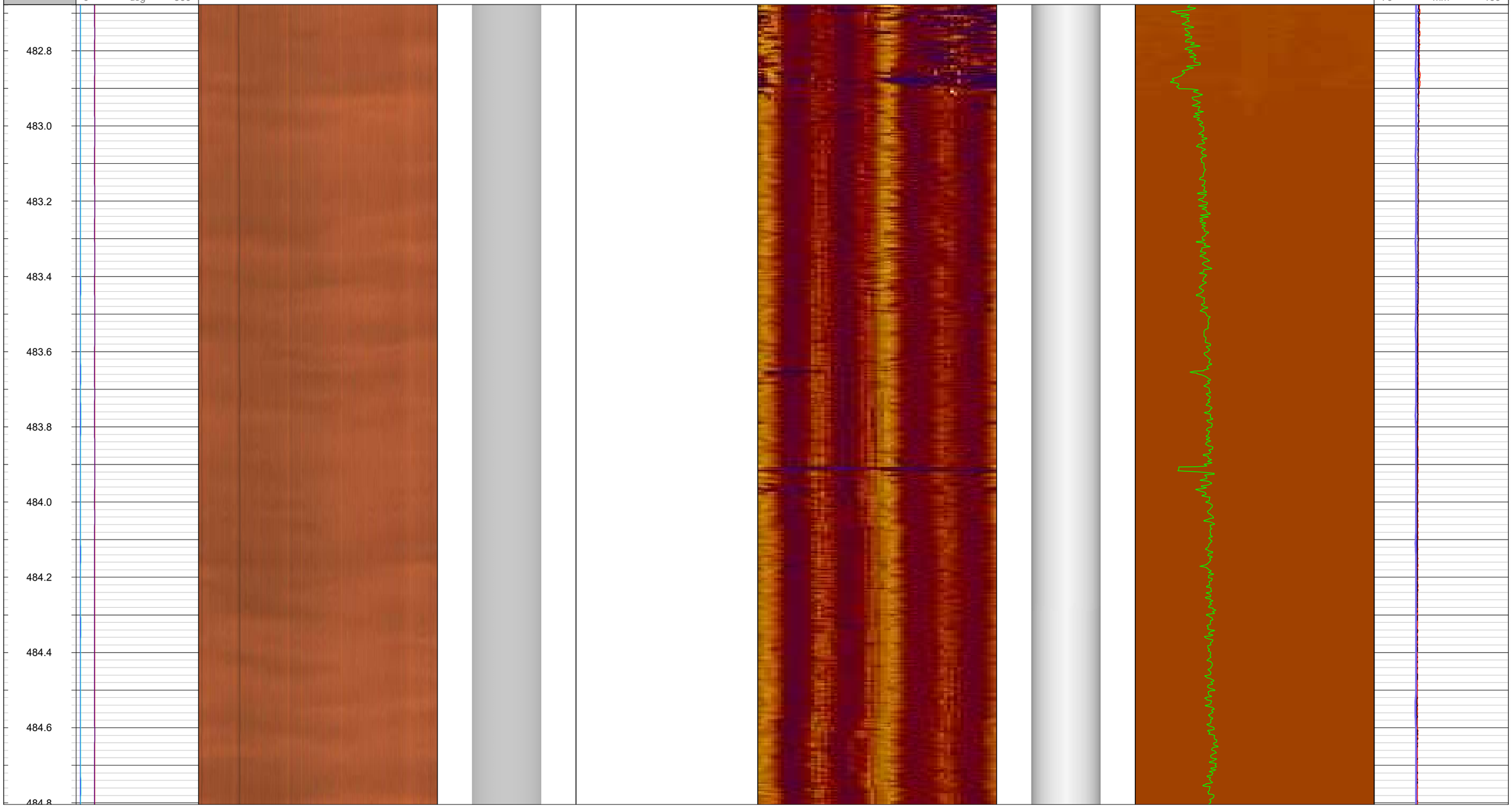
Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
1m:10m									
476.4									
476.6									
476.8									
477.0									
477.2									
477.4									
477.6									
477.8									
478.0									
478.2									
478.4									

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
480.6								
480.8								
481.0								
481.2								
481.4								
481.6								
481.8								
482.0								
482.2								
482.4								
482.6								

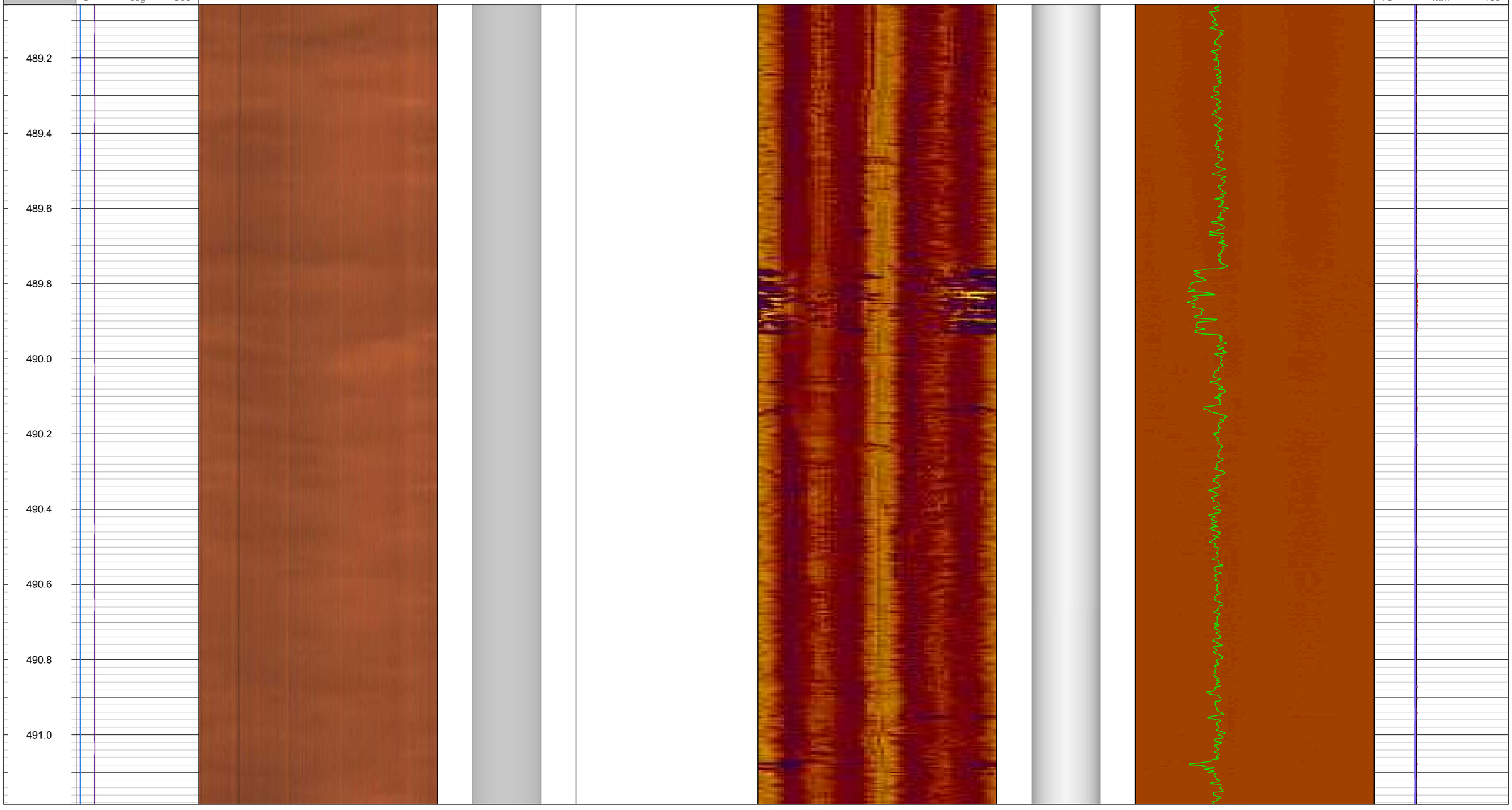
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
1m:10m									
485.0									
485.2									
485.4									
485.6									
485.8									
486.0									
486.2									
486.4									
486.6									
486.8									

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
487.0								
487.2								
487.4								
487.6								
487.8								
488.0								
488.2								
488.4								
488.6								
488.8								
489.0								

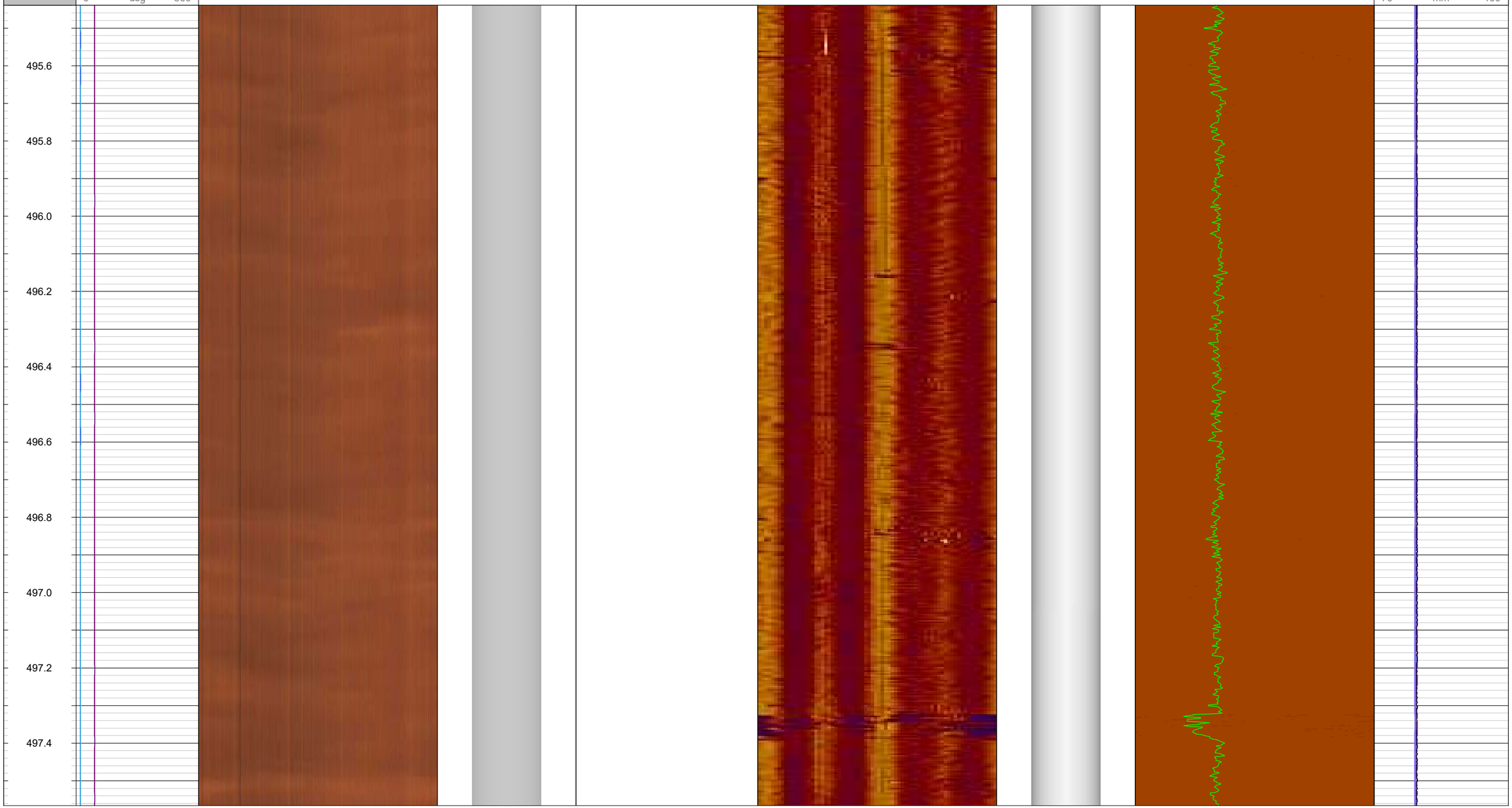
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



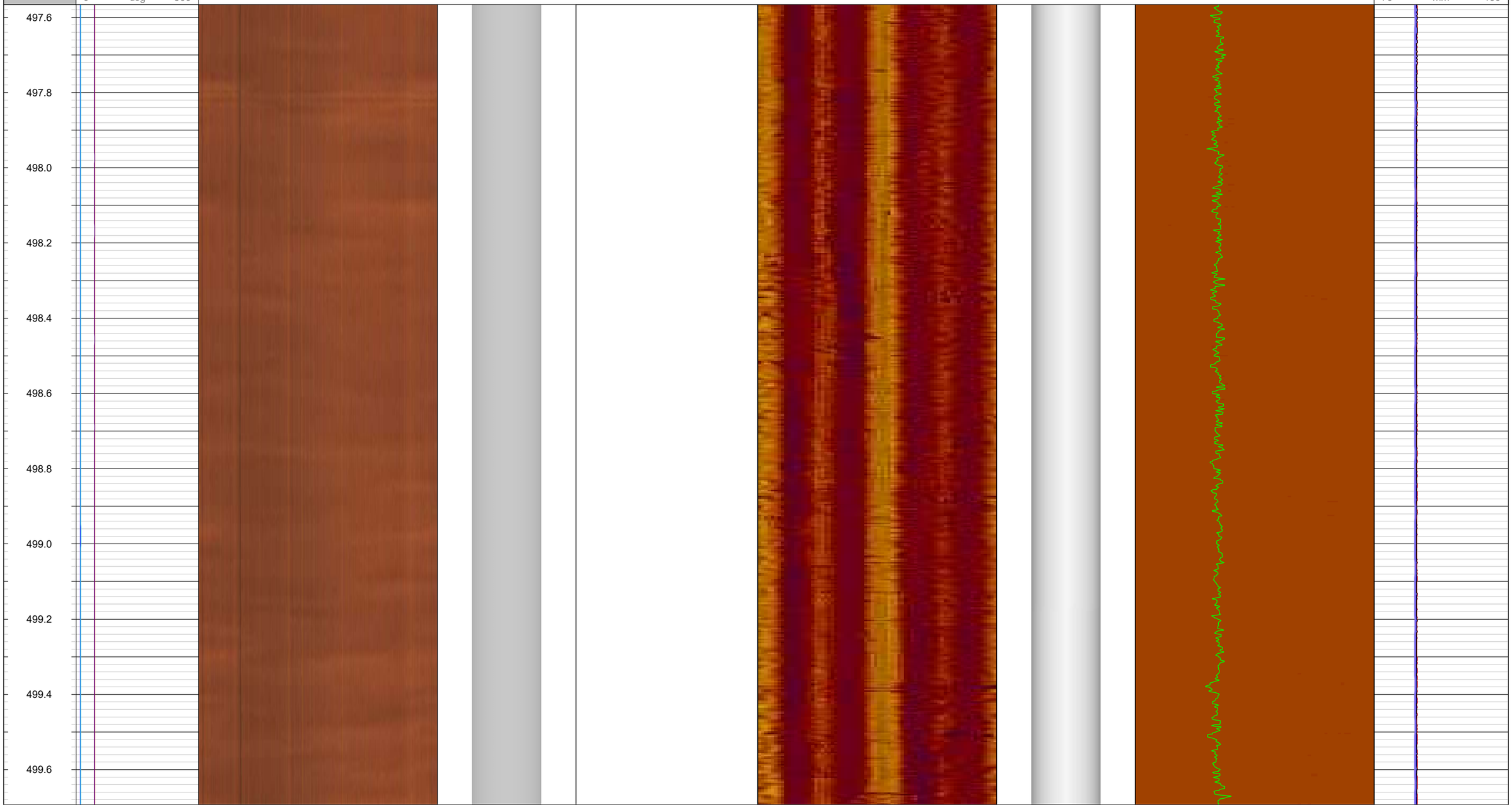
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
491.2								
491.4								
491.6								
491.8								
492.0								
492.2								
492.4								
492.6								
492.8								
493.0								
493.2								

Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
493.4									
493.6									
493.8									
494.0									
494.2									
494.4									
494.6									
494.8									
495.0									
495.2									
495.4									

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
499.8								
500.0								
500.2								
500.4								
500.6								
500.8								
501.0								
501.2								
501.4								
501.6								
501.8								

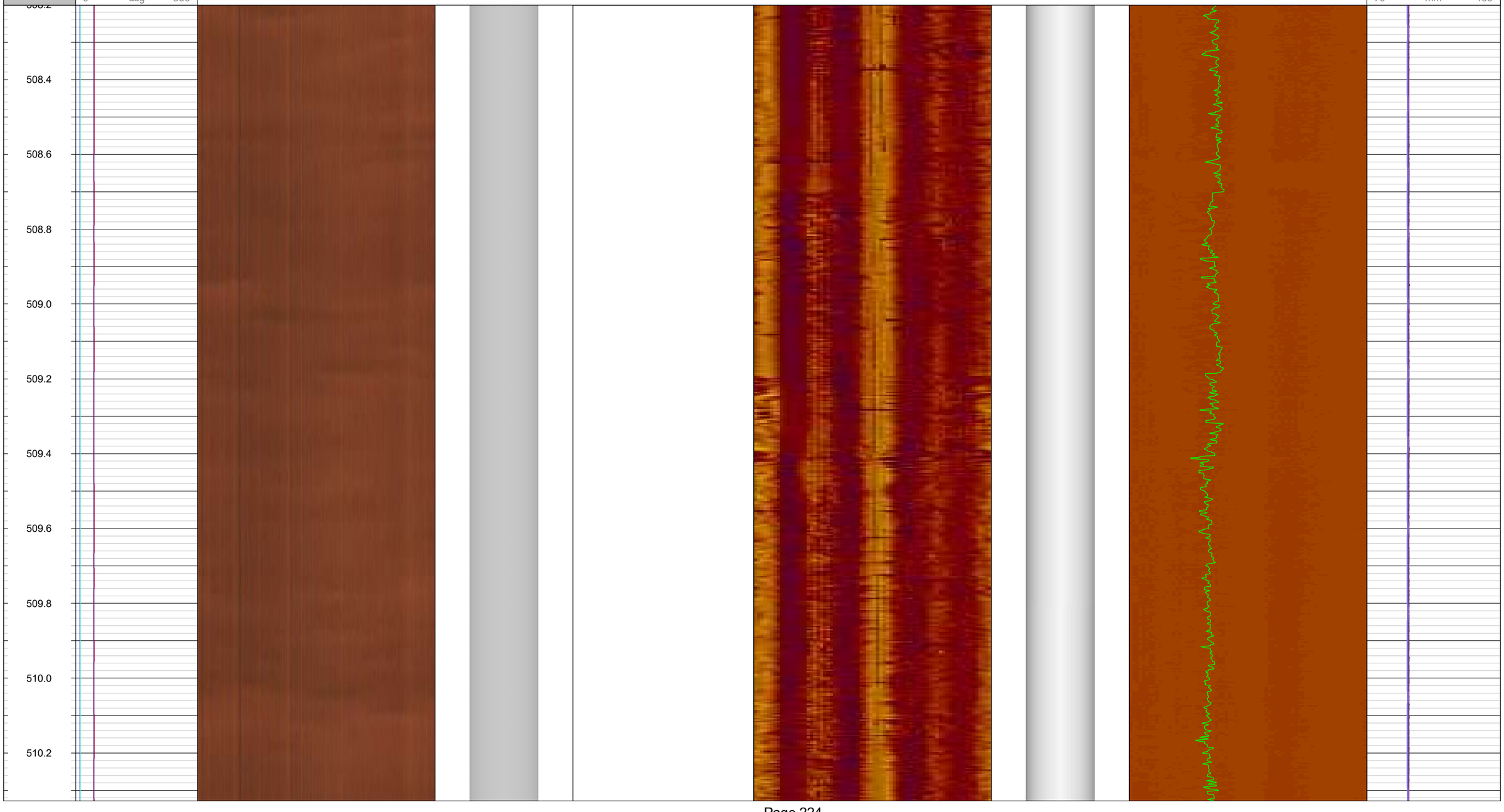
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
502.0								
502.2								
502.4								
502.6								
502.8								
503.0								
503.2								
503.4								
503.6								
503.8								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

504.0
504.2
504.4
504.6
504.8
505.0
505.2
505.4
505.6
505.8
506.0

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
506.2								
506.4								
506.6								
506.8								
507.0								
507.2								
507.4								
507.6								
507.8								
508.0								
508.2								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

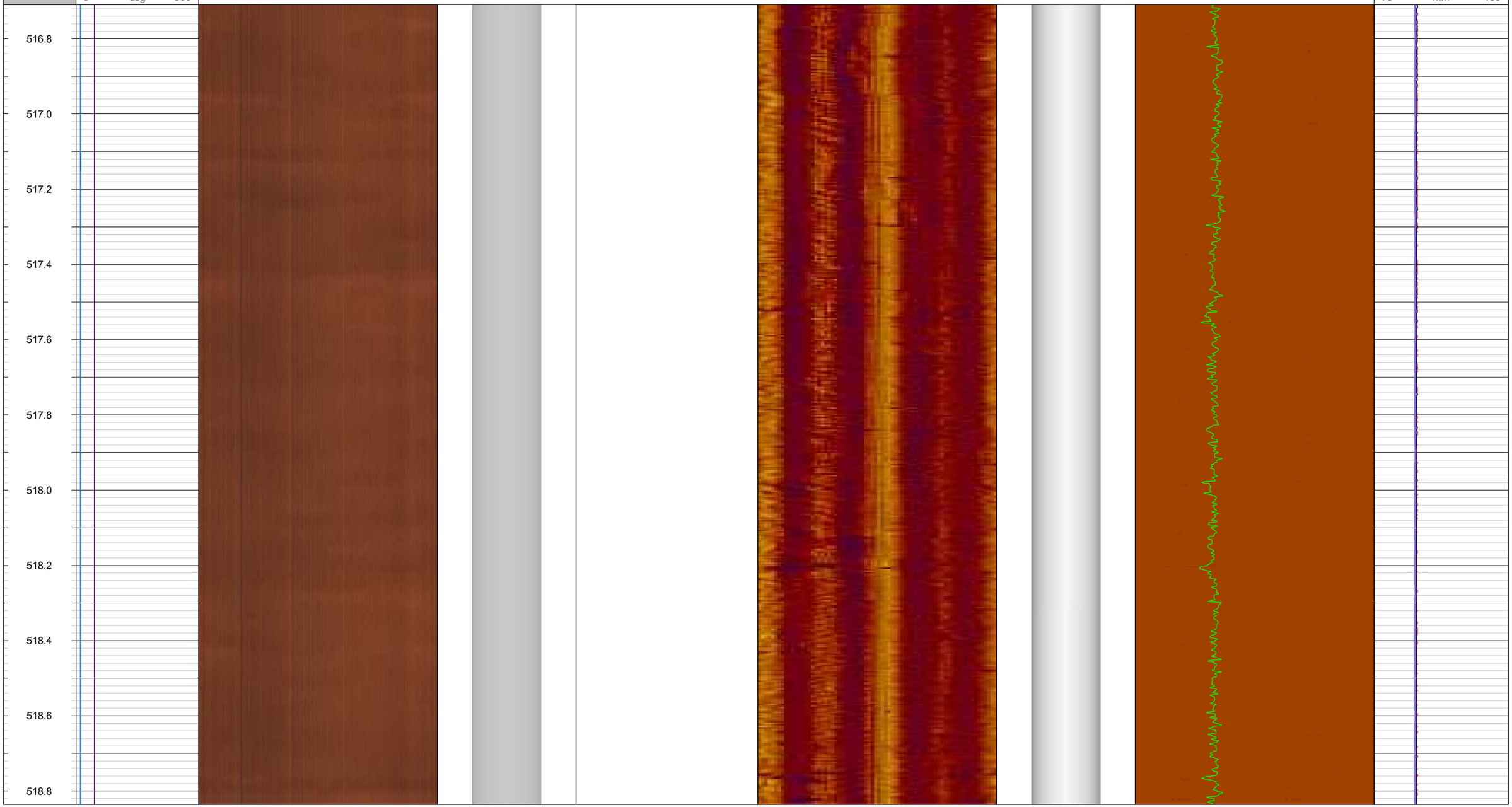


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
510.4								
510.6								
510.8								
511.0								
511.2								
511.4								
511.6								
511.8								
512.0								
512.2								
512.4								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
512.6								
512.8								
513.0								
513.2								
513.4								
513.6								
513.8								
514.0								
514.2								
514.4								

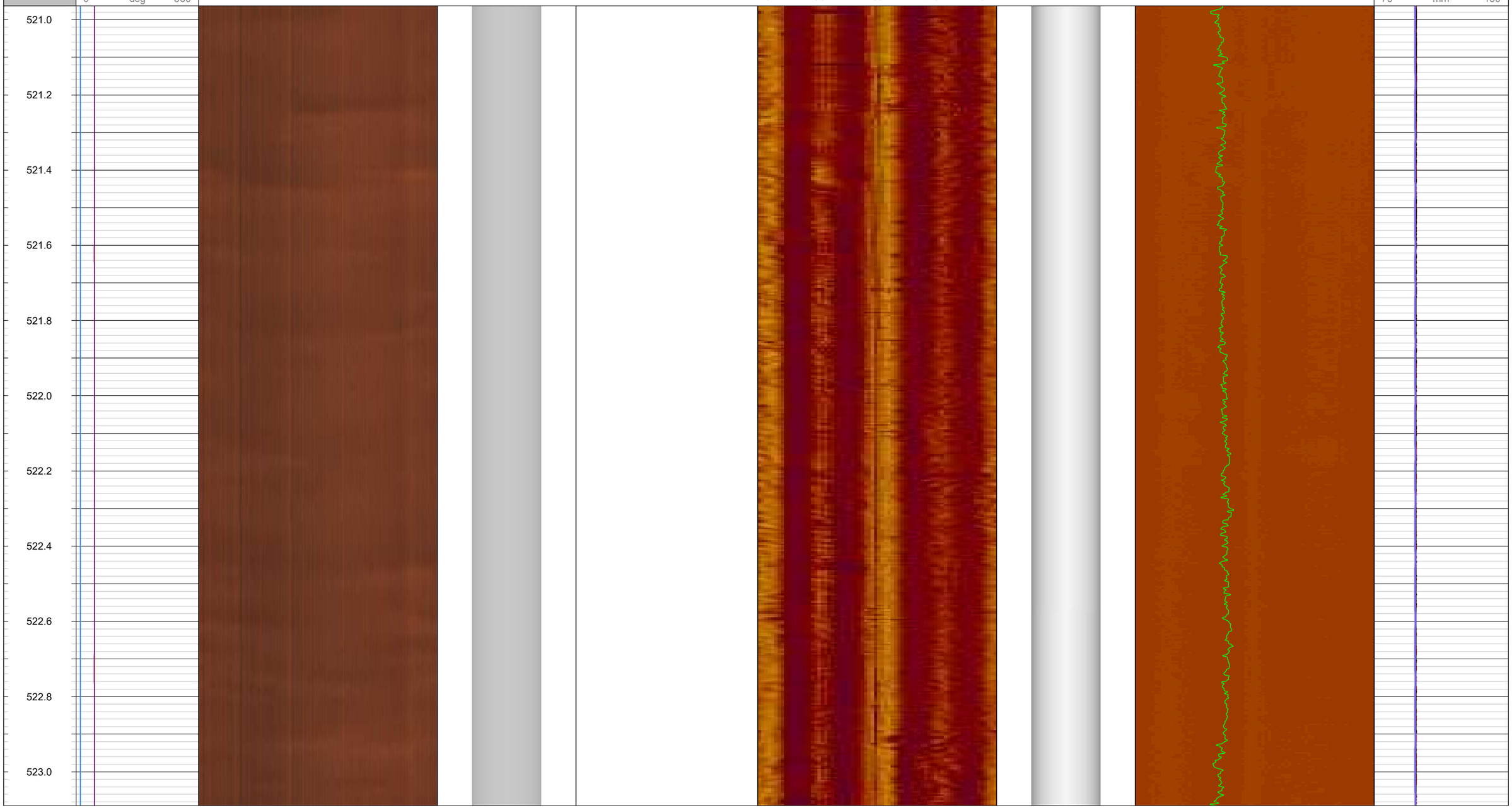
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
514.6								
514.8								
515.0								
515.2								
515.4								
515.6								
515.8								
516.0								
516.2								
516.4								
516.6								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



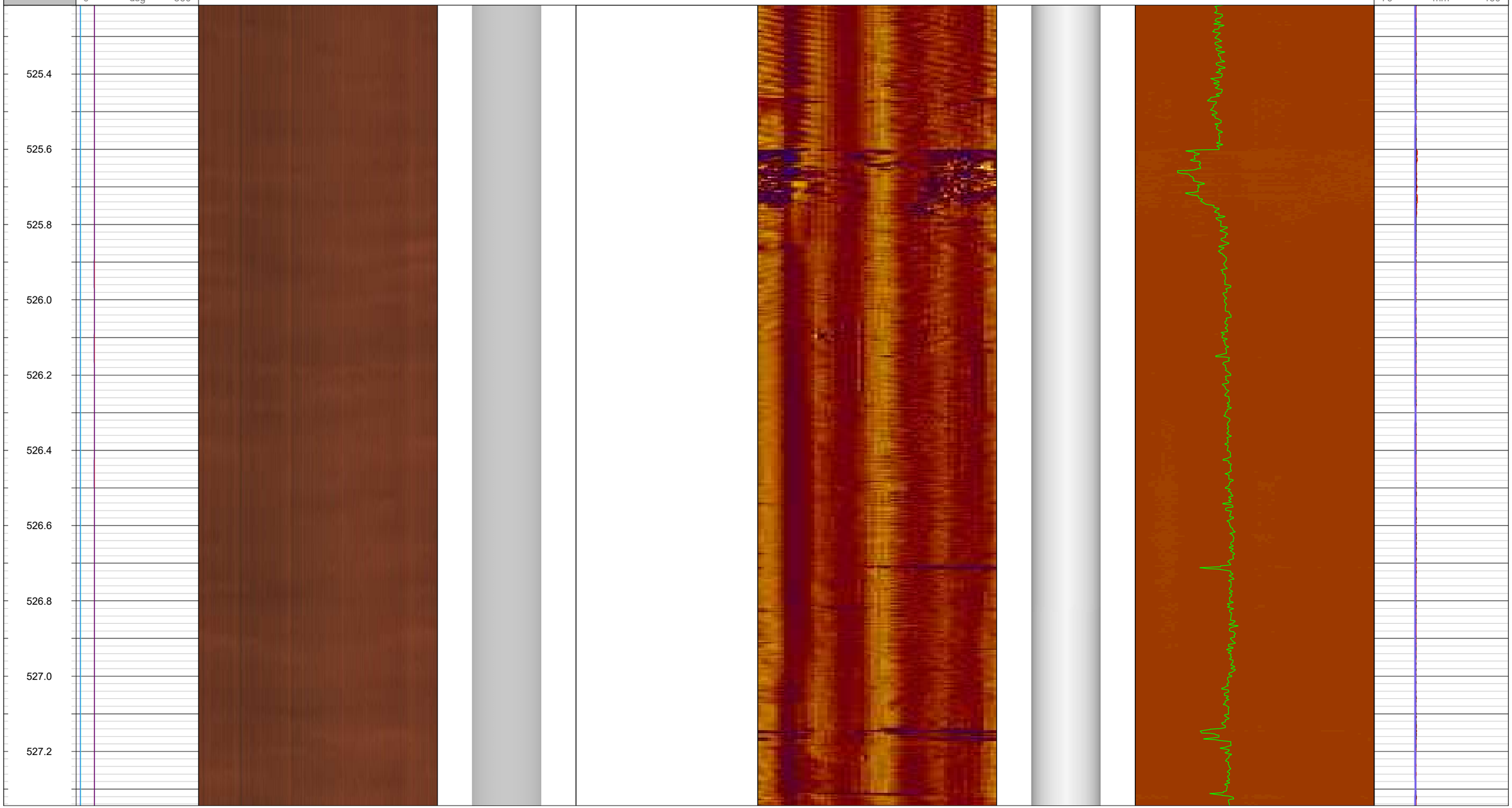
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
519.0								
519.2								
519.4								
519.6								
519.8								
520.0								
520.2								
520.4								
520.6								
520.8								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
523.2								
523.4								
523.6								
523.8								
524.0								
524.2								
524.4								
524.6								
524.8								
525.0								
525.2								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
527.4								
527.6								
527.8								
528.0								
528.2								
528.4								
528.6								
528.8								
529.0								
529.2								
529.4								

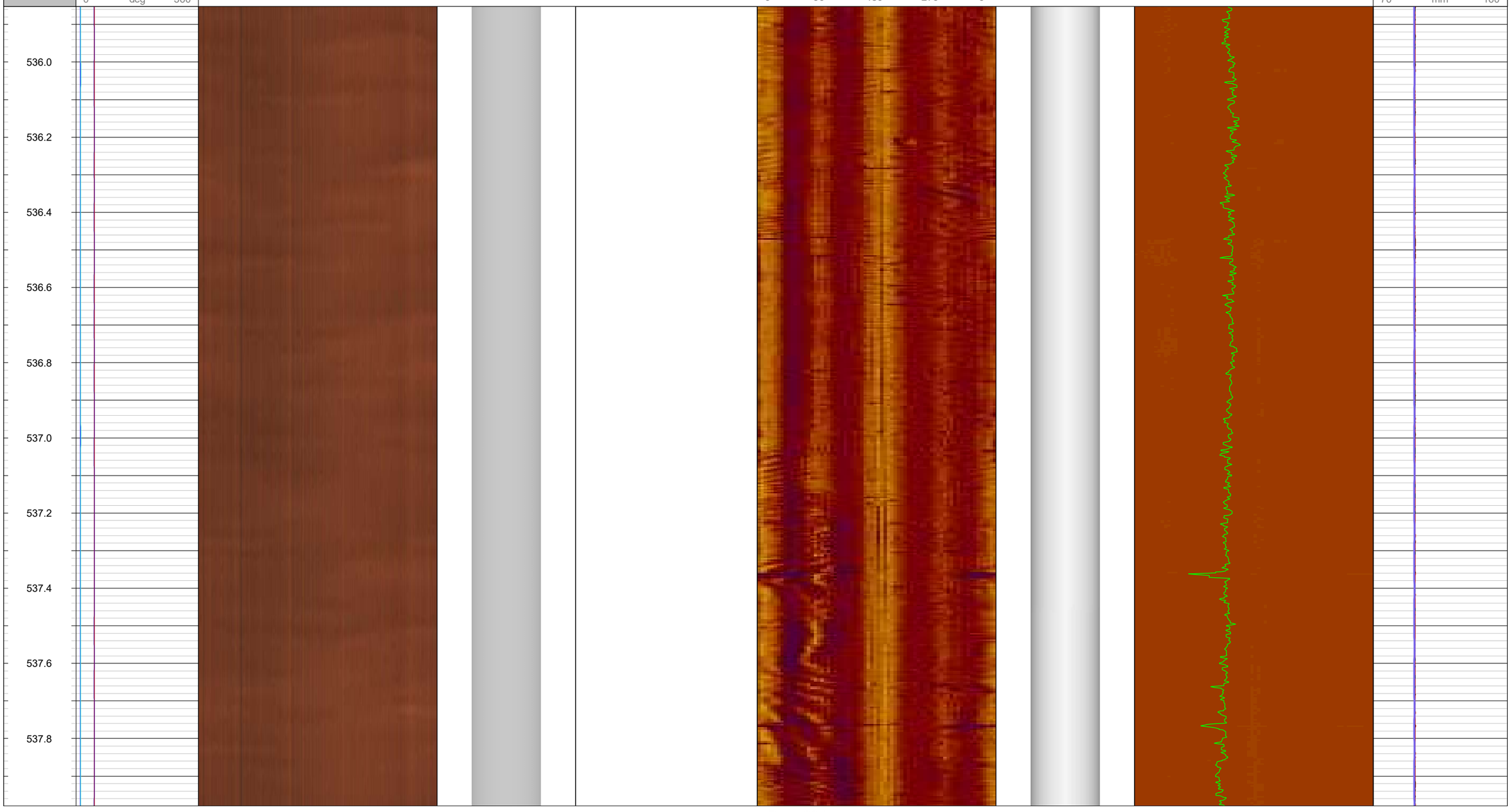
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
529.6								
529.8								
530.0								
530.2								
530.4								
530.6								
530.8								
531.0								
531.2								
531.4								

Depth	Orientation	Acoustic and Optical Televiewer Analysis					Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

531.6
531.8
532.0
532.2
532.4
532.6
532.8
533.0
533.2
533.4
533.6

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
533.8								
534.0								
534.2								
534.4								
534.6								
534.8								
535.0								
535.2								
535.4								
535.6								
535.8								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

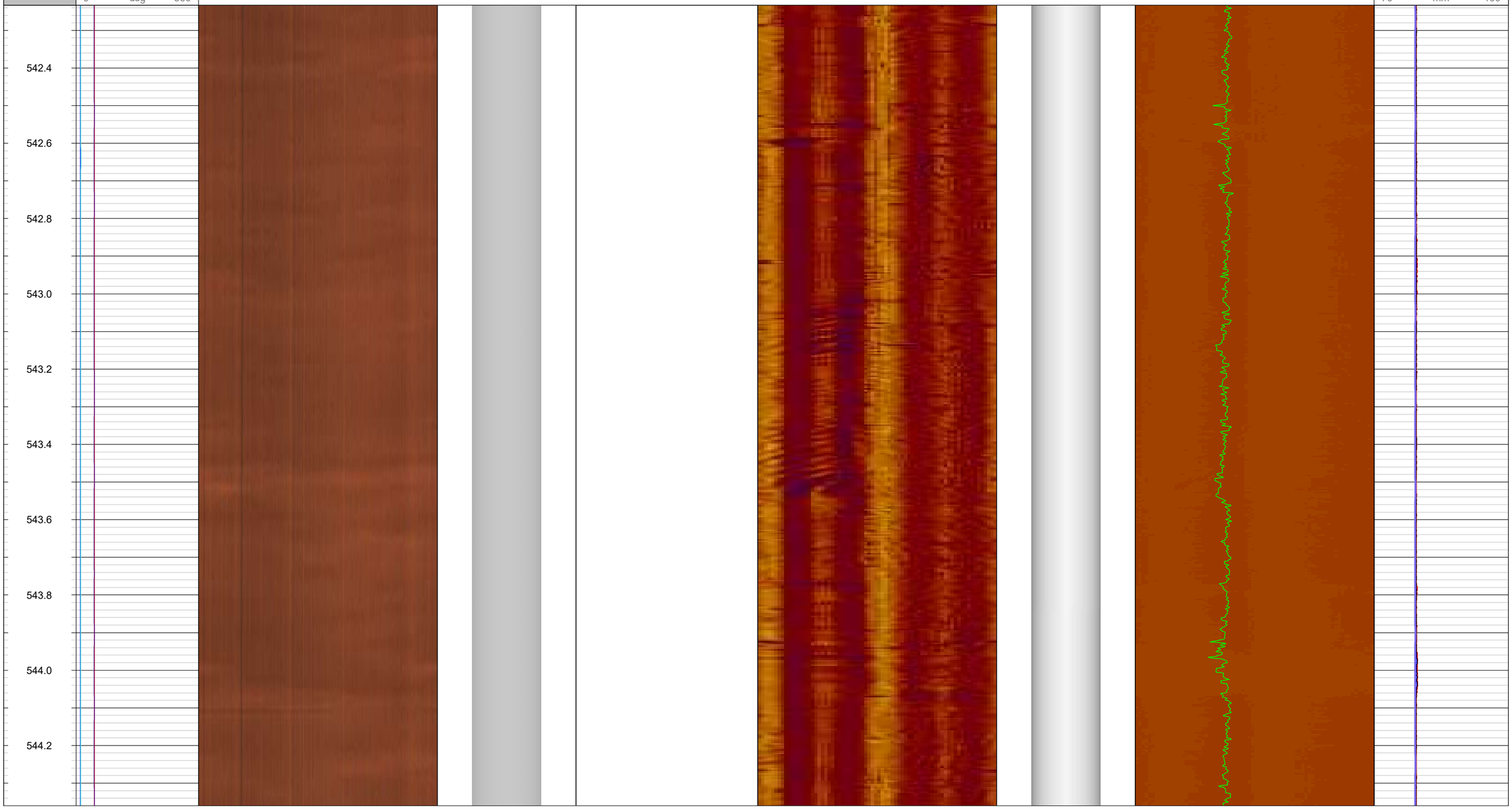


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

538.0
538.2
538.4
538.6
538.8
539.0
539.2
539.4
539.6
539.8
540.0

Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
540.2									
540.4									
540.6									
540.8									
541.0									
541.2									
541.4									
541.6									
541.8									
542.0									
542.2									

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

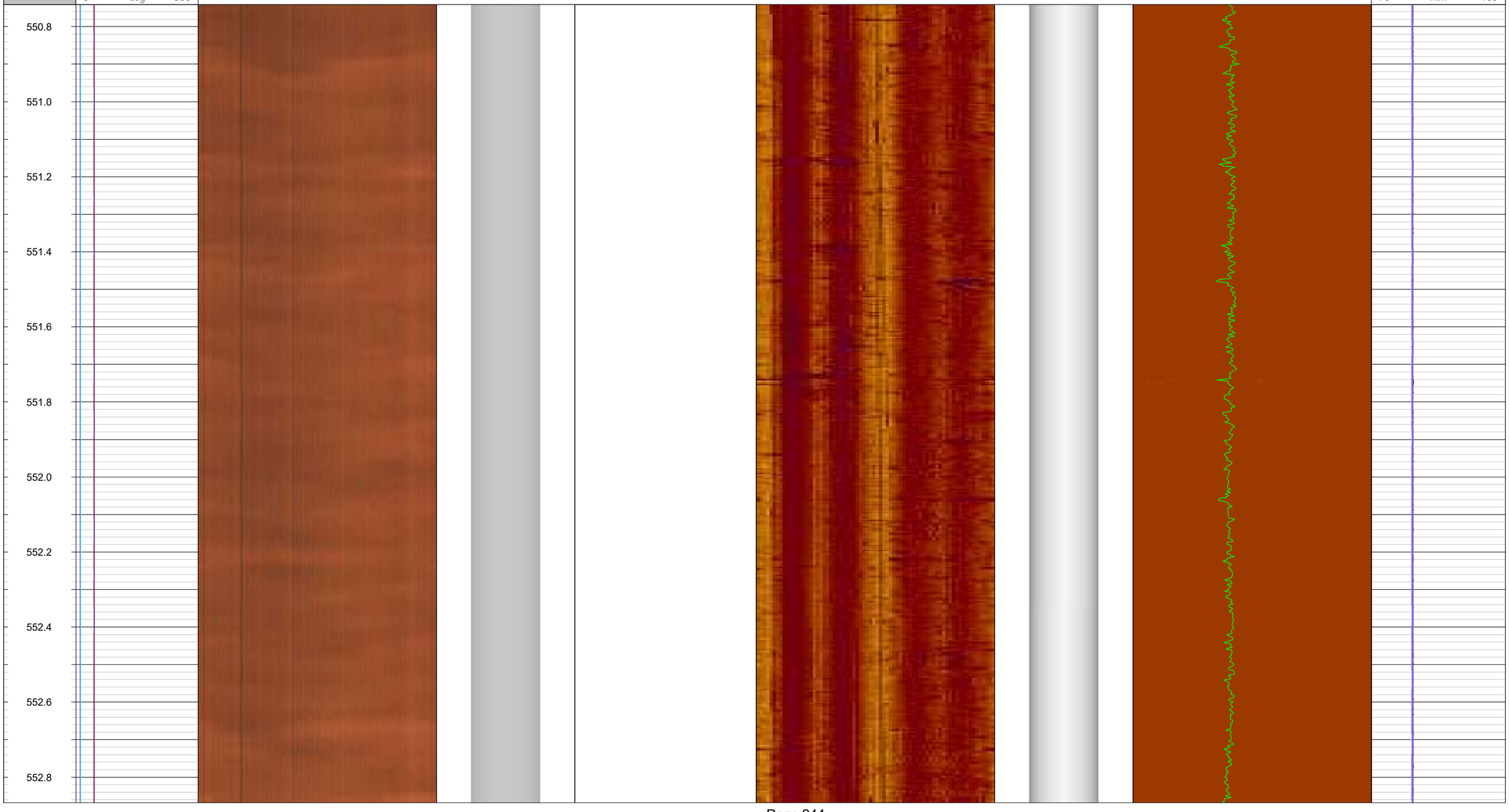


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
544.4								
544.6								
544.8								
545.0								
545.2								
545.4								
545.6								
545.8								
546.0								
546.2								
546.4								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
546.6								
546.8								
547.0								
547.2								
547.4								
547.6								
547.8								
548.0								
548.2								
548.4								
548.6								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
548.8								
549.0								
549.2								
549.4								
549.6								
549.8								
550.0								
550.2								
550.4								
550.6								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

553.0
553.2
553.4
553.6
553.8
554.0
554.2
554.4
554.6
554.8

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

555.0
555.2
555.4
555.6
555.8
556.0
556.2
556.4
556.6
556.8
557.0

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
557.2								
557.4								
557.6								
557.8								
558.0								
558.2								
558.4								
558.6								
558.8								
559.0								
559.2								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

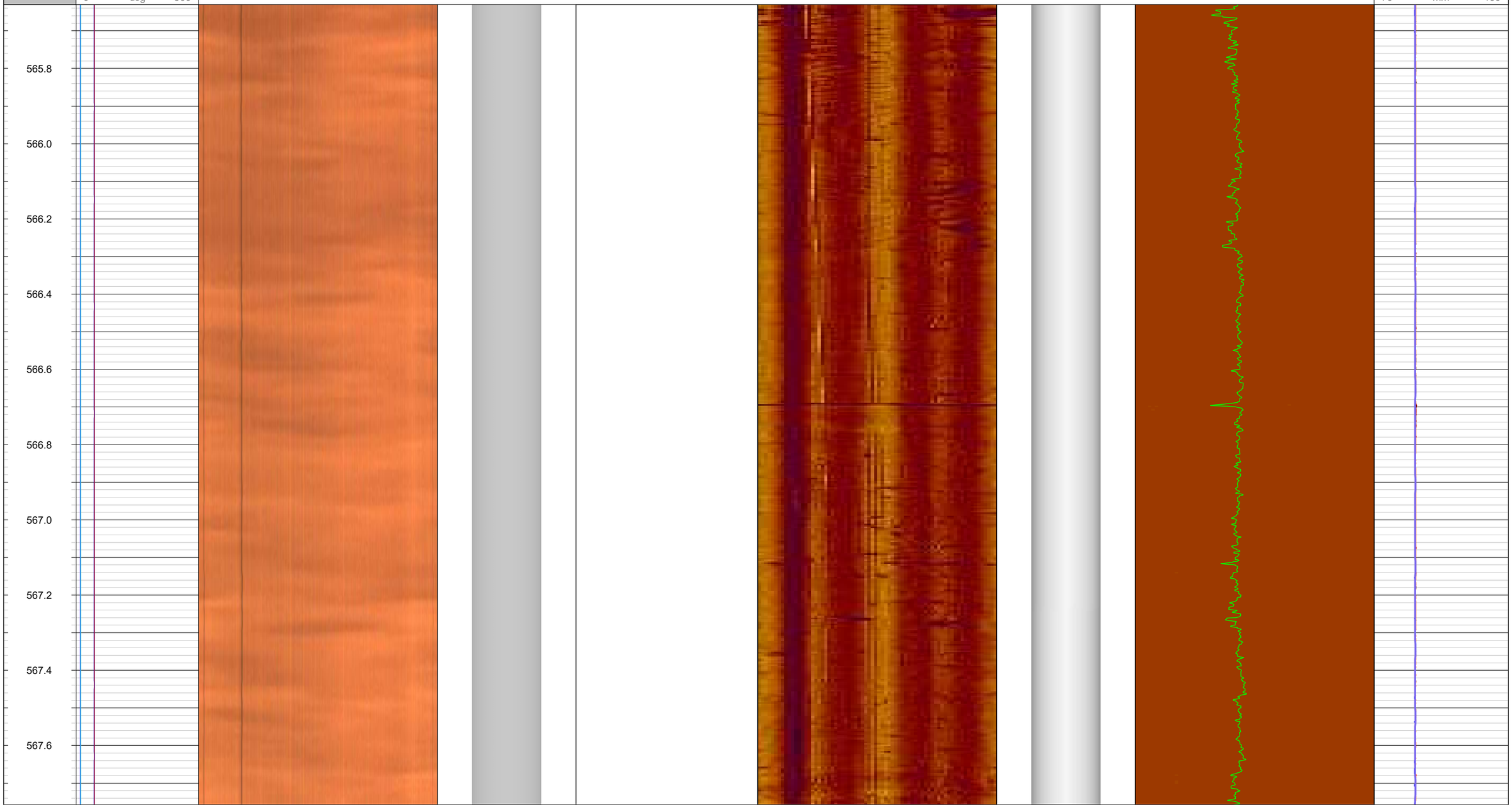
559.4
559.6
559.8
560.0
560.2
560.4
560.6
560.8
561.0
561.2

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

561.4
561.6
561.8
562.0
562.2
562.4
562.6
562.8
563.0
563.2
563.4

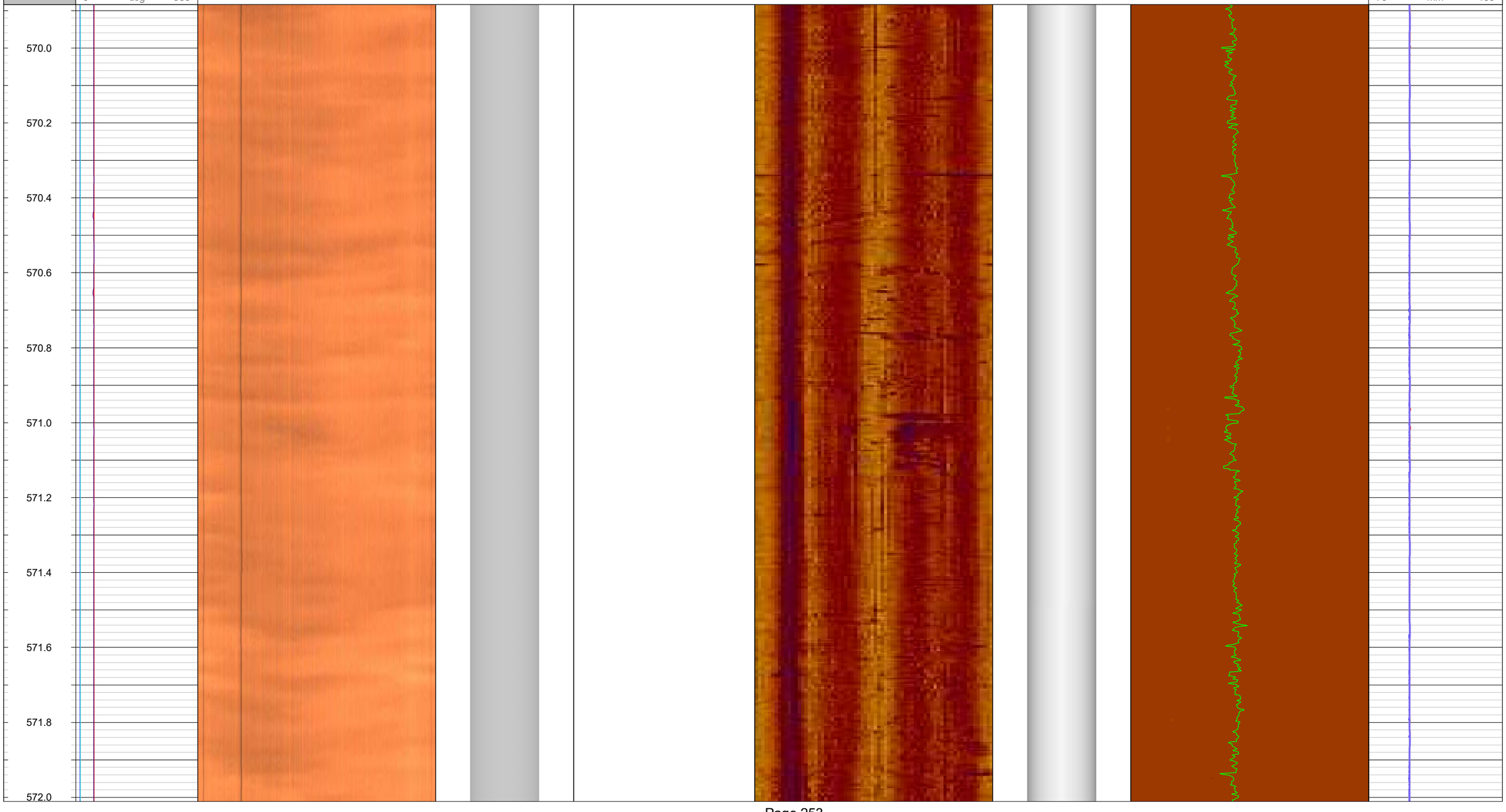
Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
563.6									
563.8									
564.0									
564.2									
564.4									
564.6									
564.8									
565.0									
565.2									
565.4									
565.6									

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
567.8								
568.0								
568.2								
568.4								
568.6								
568.8								
569.0								
569.2								
569.4								
569.6								
569.8								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

572.2
572.4
572.6
572.8
573.0
573.2
573.4
573.6
573.8
574.0

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
574.2								
574.4								
574.6								
574.8								
575.0								
575.2								
575.4								
575.6								
575.8								
576.0								
576.2								

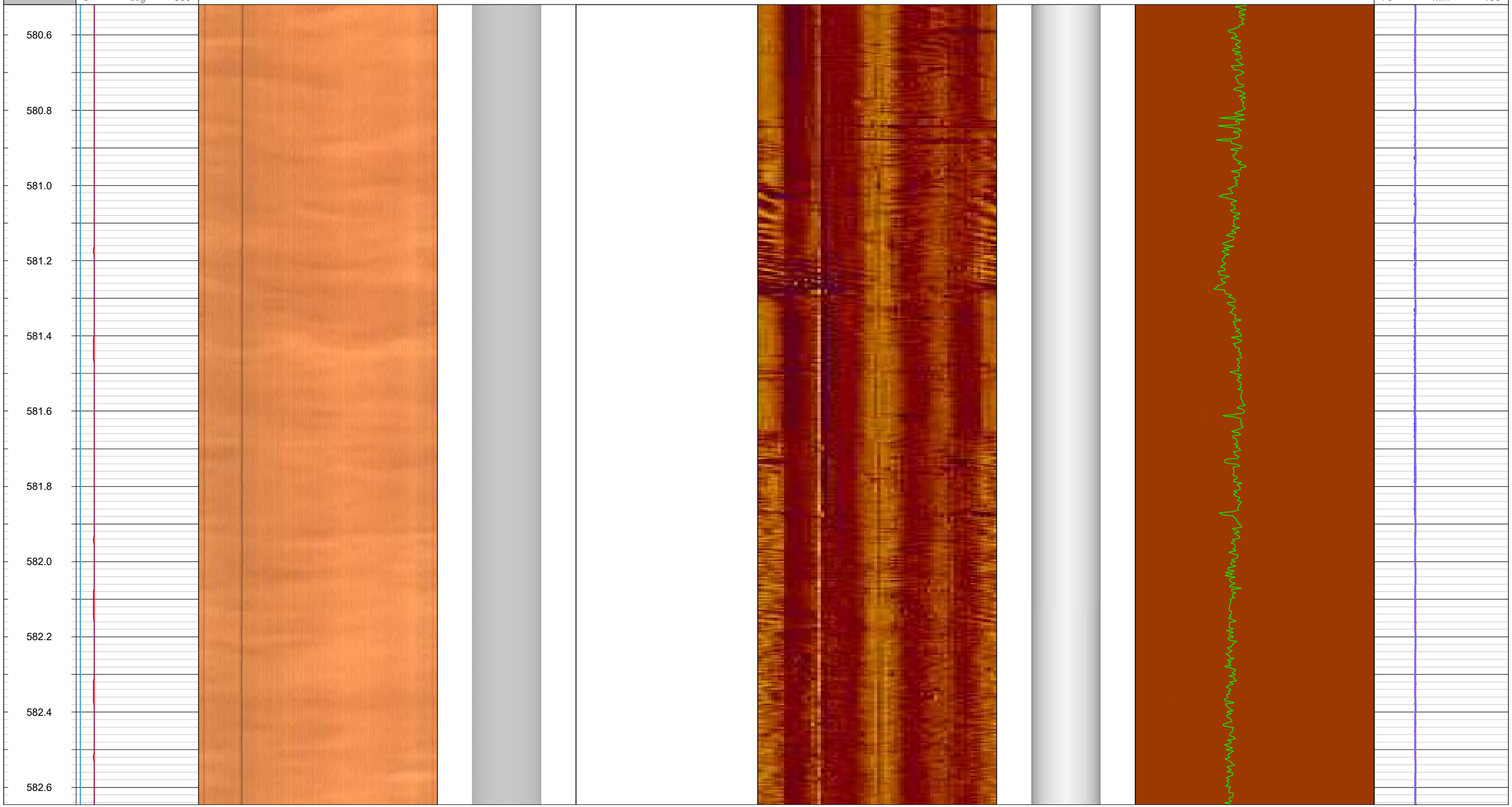
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

576.4
576.6
576.8
577.0
577.2
577.4
577.6
577.8
578.0
578.2

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

578.4
578.6
578.8
579.0
579.2
579.4
579.6
579.8
580.0
580.2
580.4

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



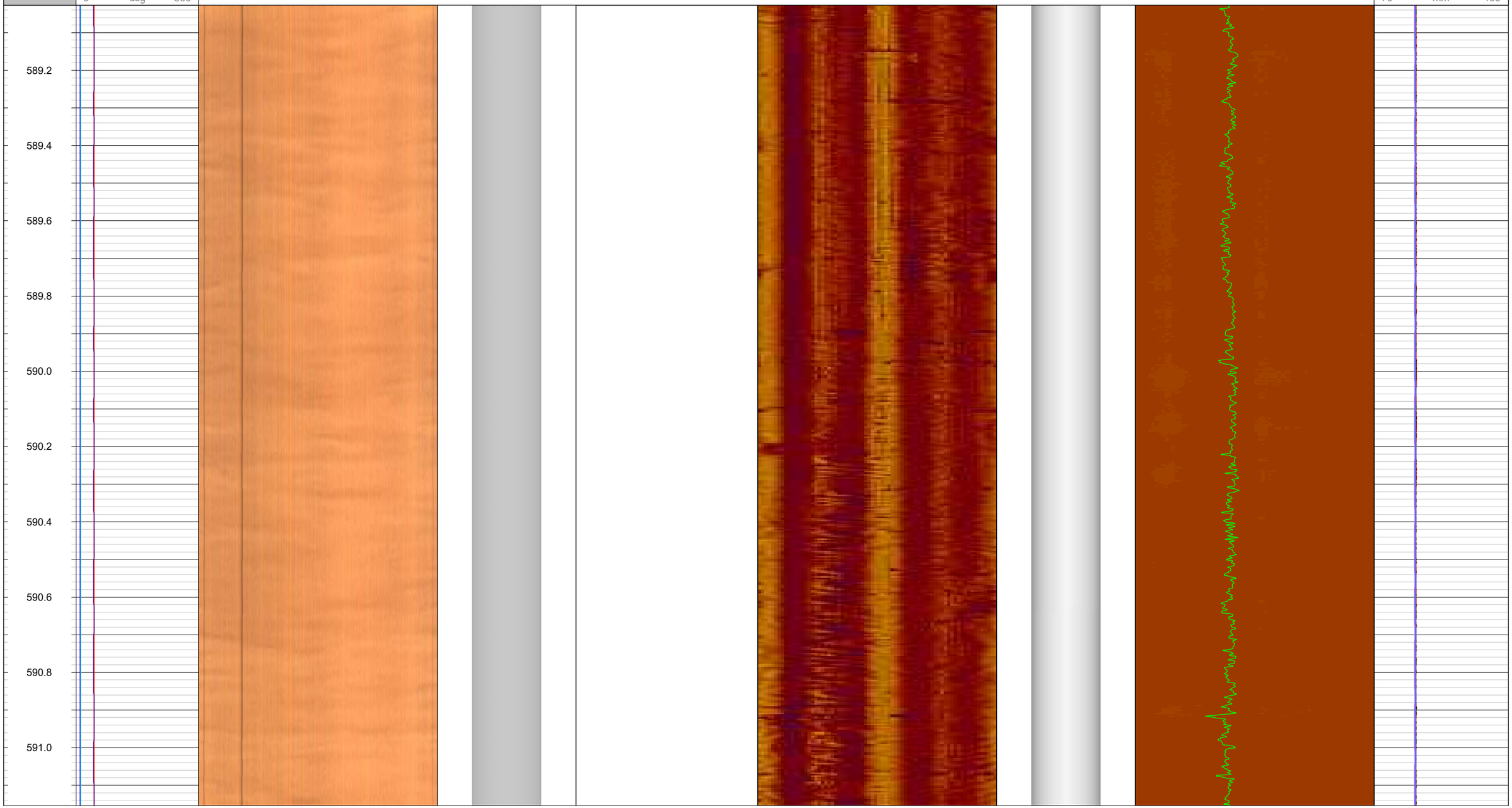
Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
582.8									
583.0									
583.2									
583.4									
583.6									
583.8									
584.0									
584.2									
584.4									
584.6									

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

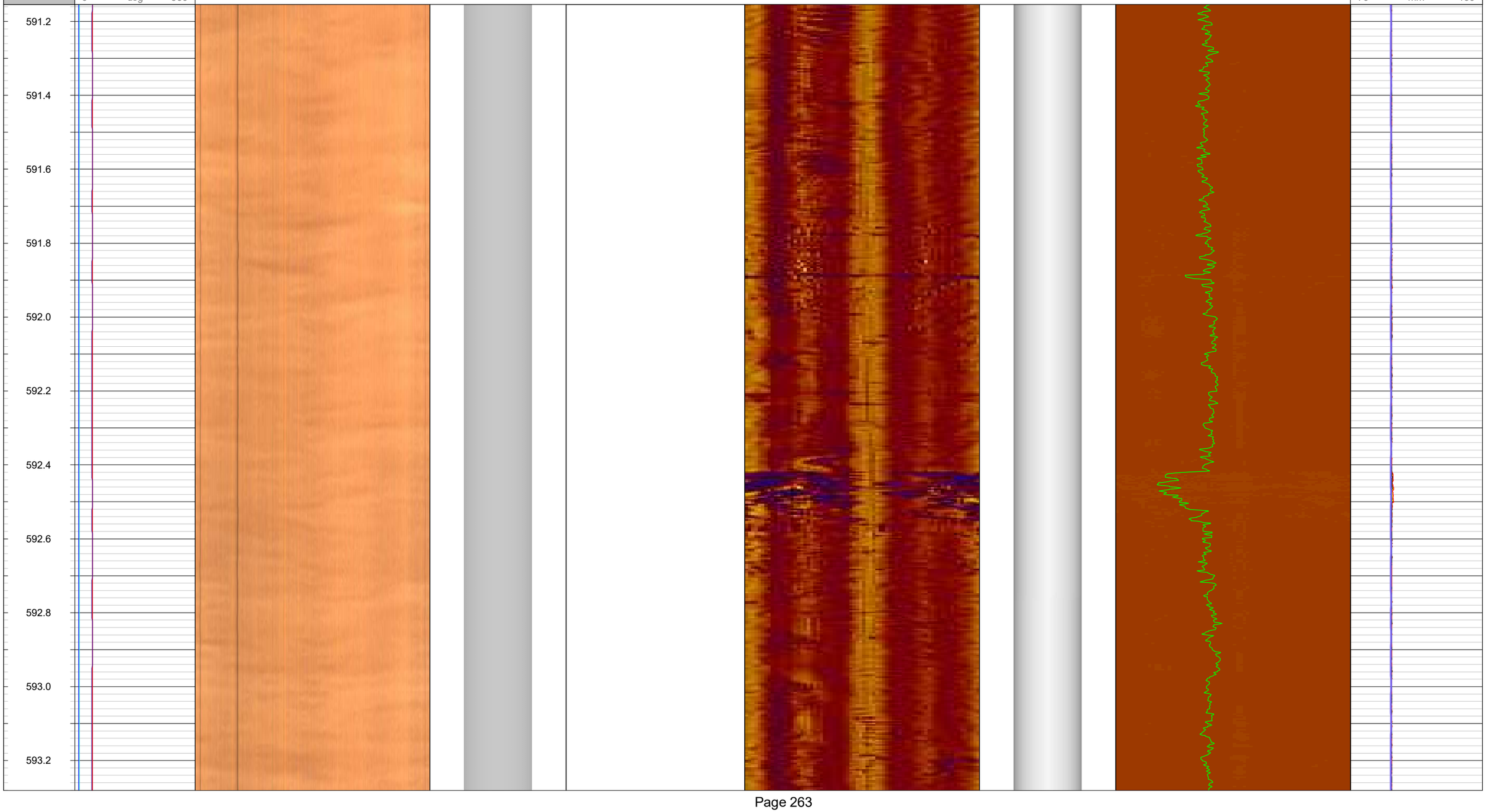
584.8
585.0
585.2
585.4
585.6
585.8
586.0
586.2
586.4
586.6
586.8

Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
587.0									
587.2									
587.4									
587.6									
587.8									
588.0									
588.2									
588.4									
588.6									
588.8									
589.0									

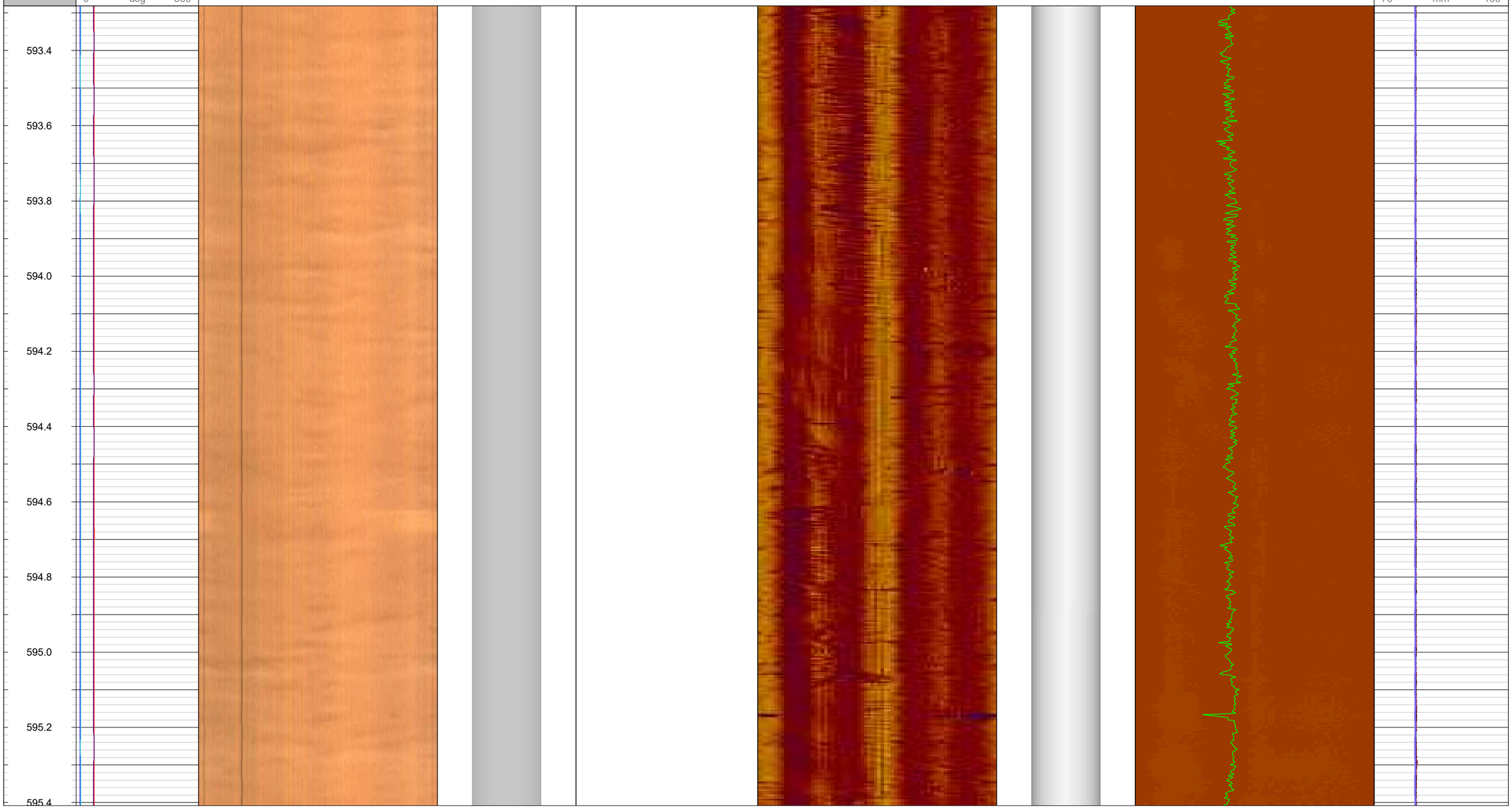
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



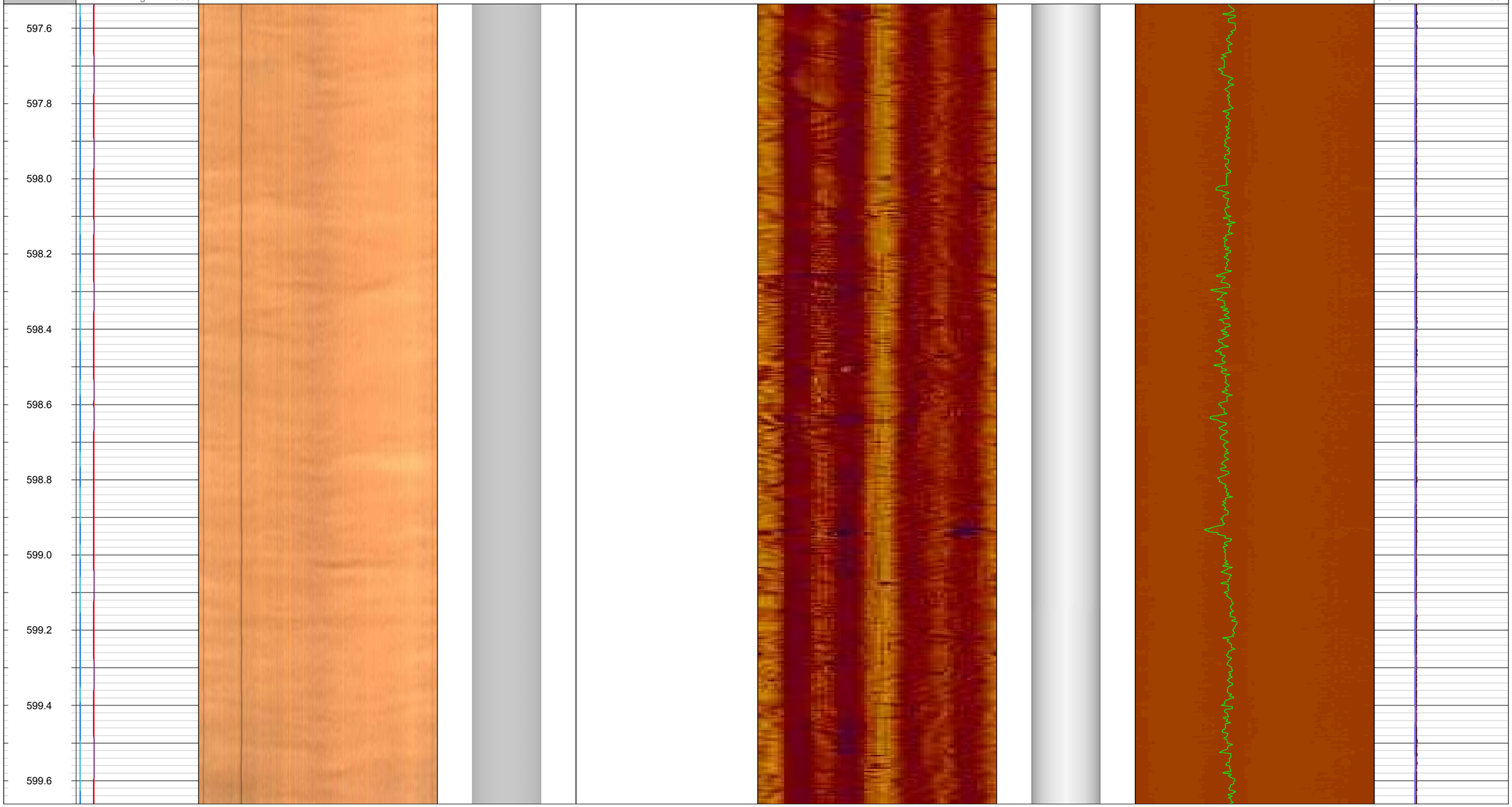
Depth	Orientation	Acoustic and Optical Televiewer Analysis					Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



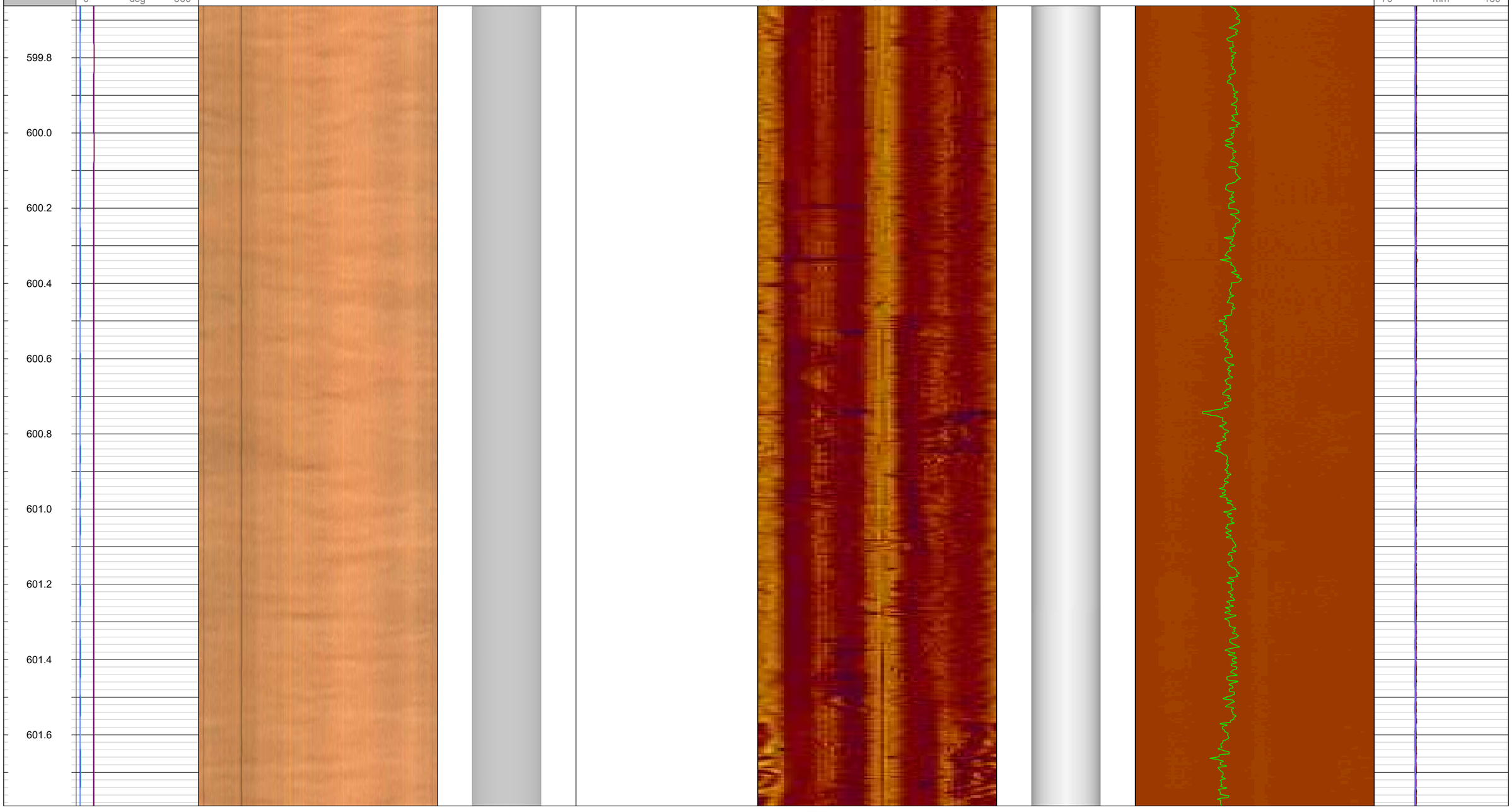
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

595.6
595.8
596.0
596.2
596.4
596.6
596.8
597.0
597.2
597.4

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

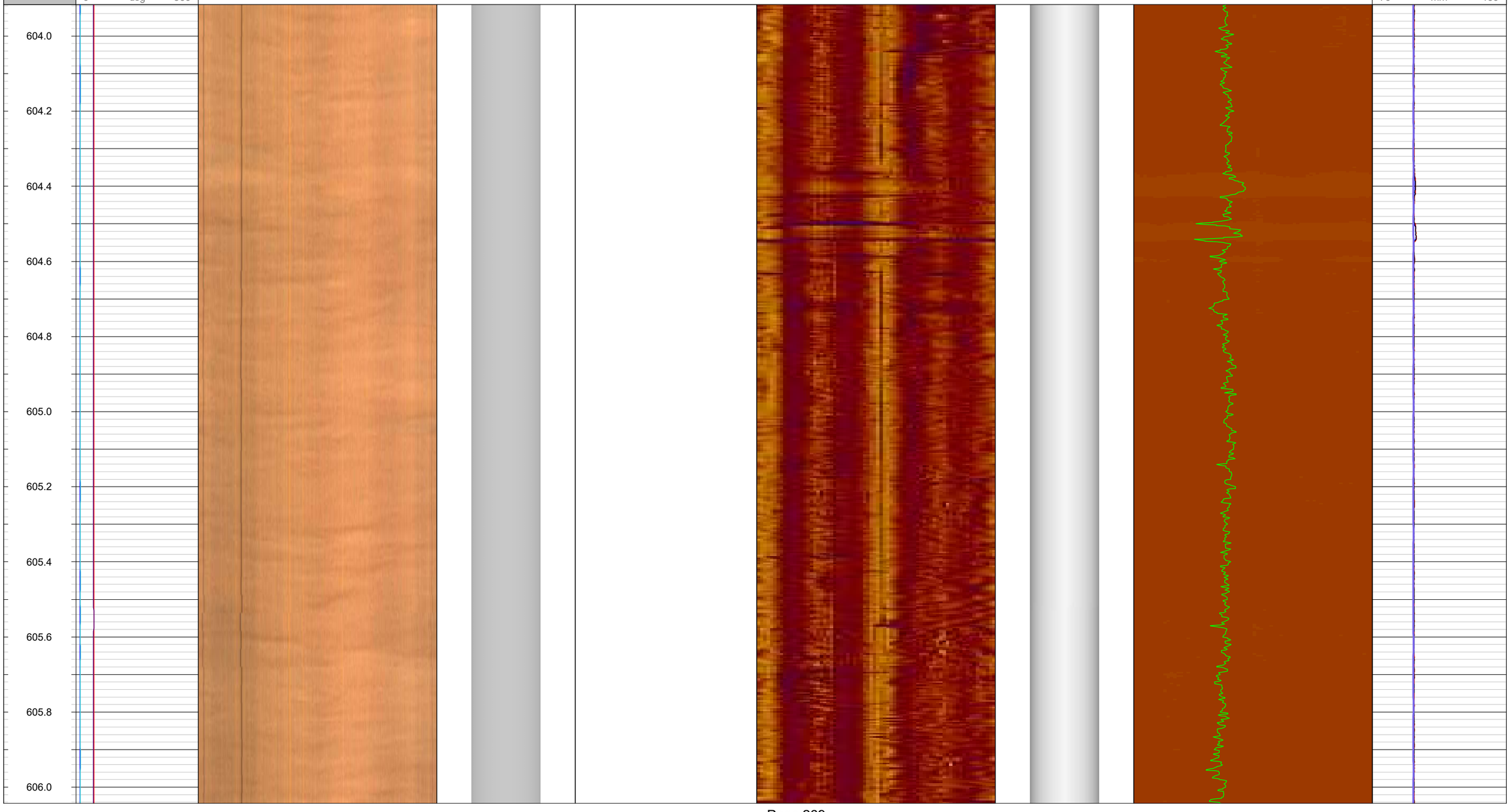


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
601.8								
602.0								
602.2								
602.4								
602.6								
602.8								
603.0								
603.2								
603.4								
603.6								
603.8								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
606.2								
606.4								
606.6								
606.8								
607.0								
607.2								
607.4								
607.6								
607.8								
608.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

608.2
608.4
608.6
608.8
609.0
609.2
609.4
609.6
609.8
610.0
610.2

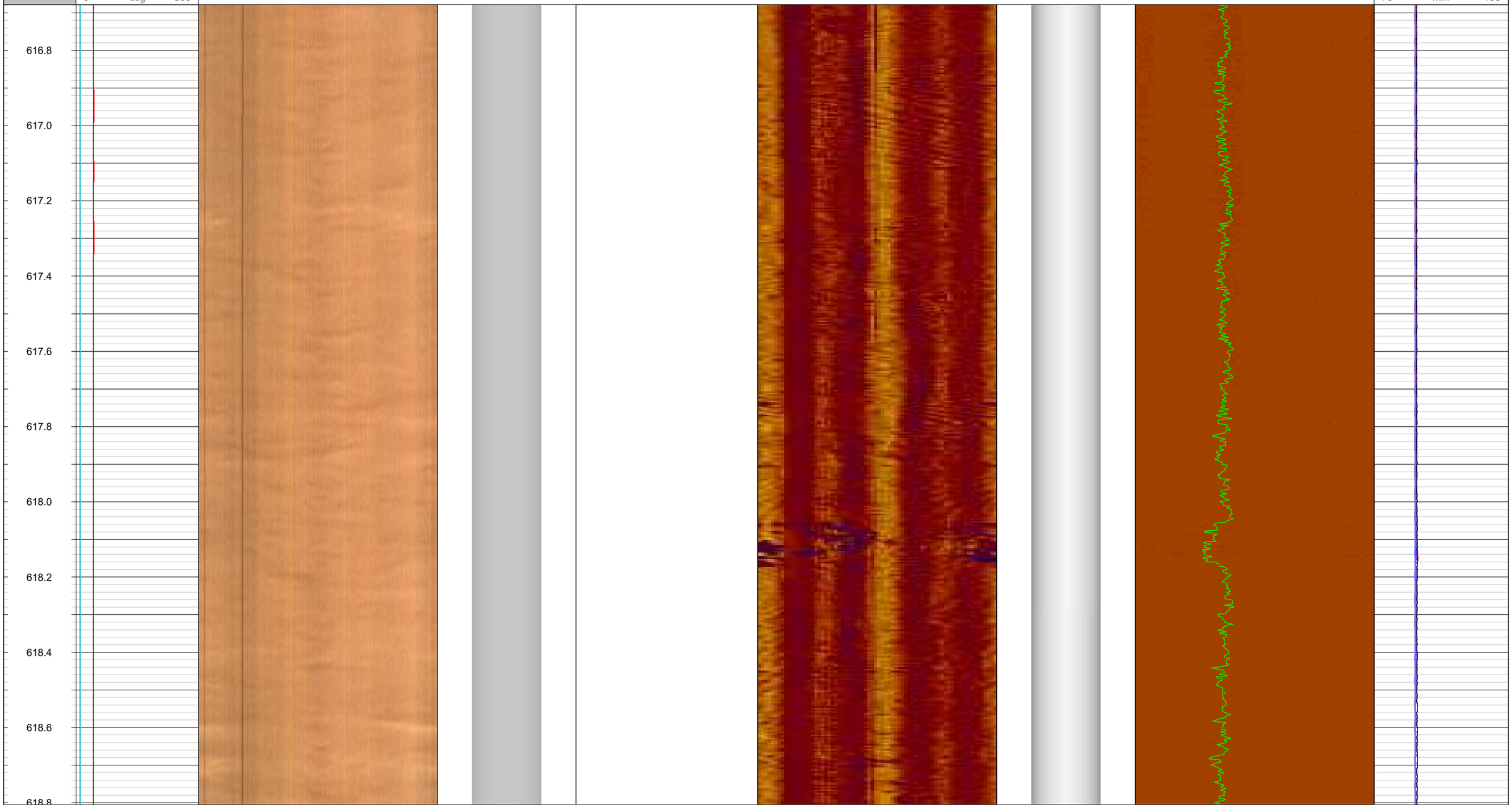
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
610.4								
610.6								
610.8								
611.0								
611.2								
611.4								
611.6								
611.8								
612.0								
612.2								
612.4								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

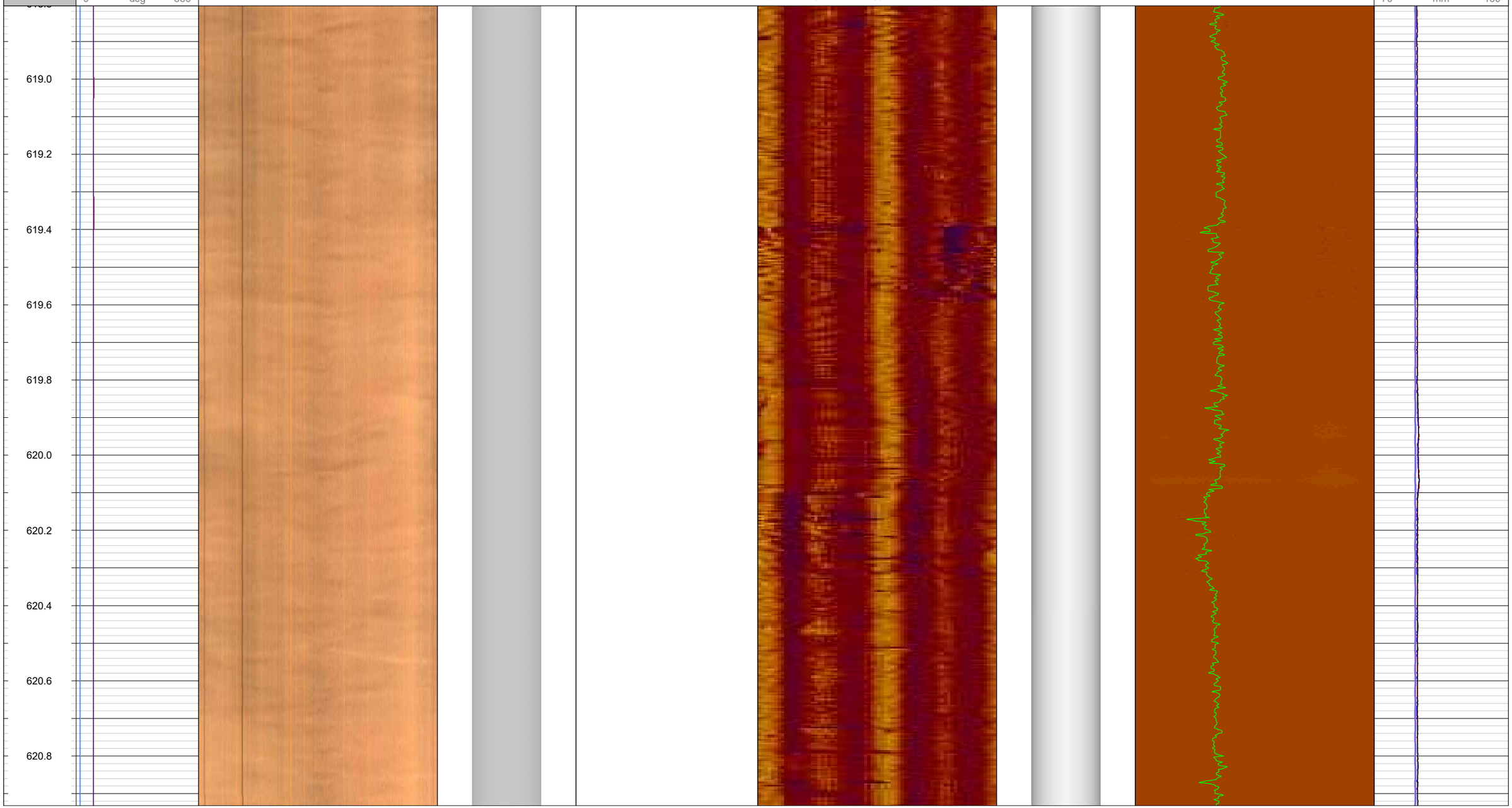
612.6
612.8
613.0
613.2
613.4
613.6
613.8
614.0
614.2
614.4

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
614.6								
614.8								
615.0								
615.2								
615.4								
615.6								
615.8								
616.0								
616.2								
616.4								
616.6								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
621.0								
621.2								
621.4								
621.6								
621.8								
622.0								
622.2								
622.4								
622.6								
622.8								
623.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
623.2								
623.4								
623.6								
623.8								
624.0								
624.2								
624.4								
624.6								
624.8								
625.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

625.2
625.4
625.6
625.8
626.0
626.2
626.4
626.6
626.8
627.0
627.2

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

627.4
627.6
627.8
628.0
628.2
628.4
628.6
628.8
629.0
629.2
629.4

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
629.6								
629.8								
630.0								
630.2								
630.4								
630.6								
630.8								
631.0								
631.2								
631.4								

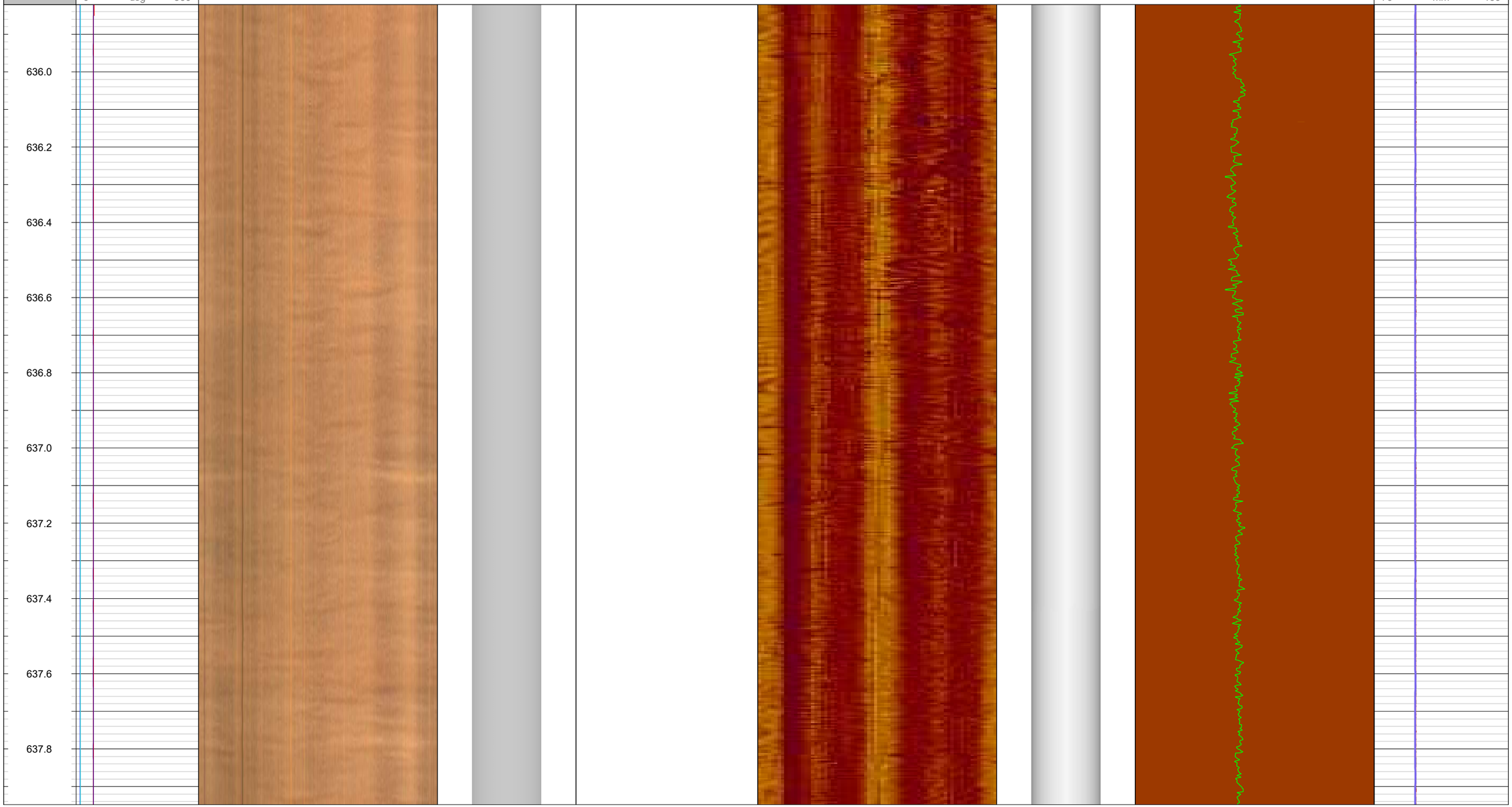
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

631.6
631.8
632.0
632.2
632.4
632.6
632.8
633.0
633.2
633.4
633.6

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

633.8
634.0
634.2
634.4
634.6
634.8
635.0
635.2
635.4
635.6
635.8

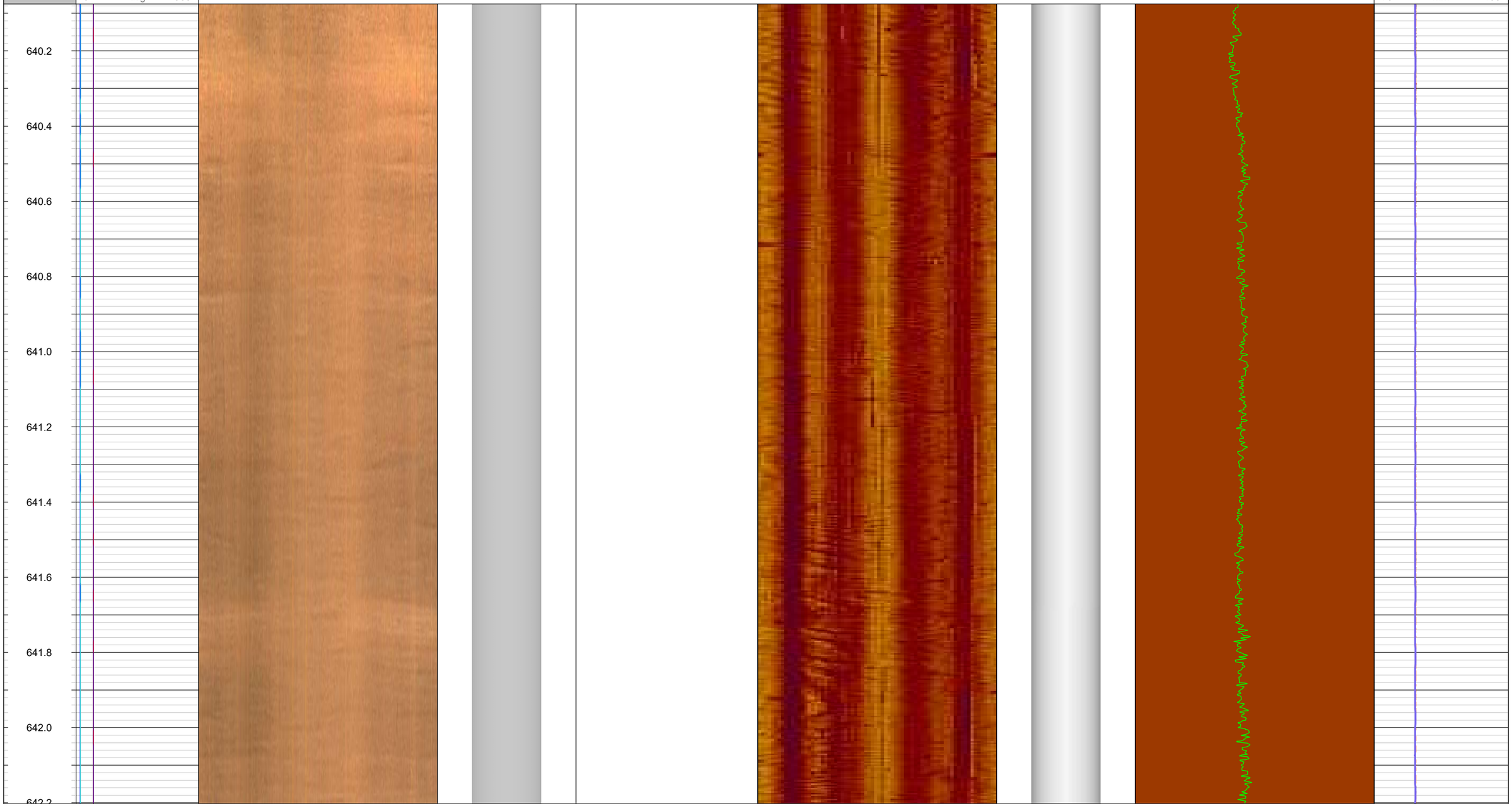
Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
1m:10m									

638.0
638.2
638.4
638.6
638.8
639.0
639.2
639.4
639.6
639.8
640.0

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



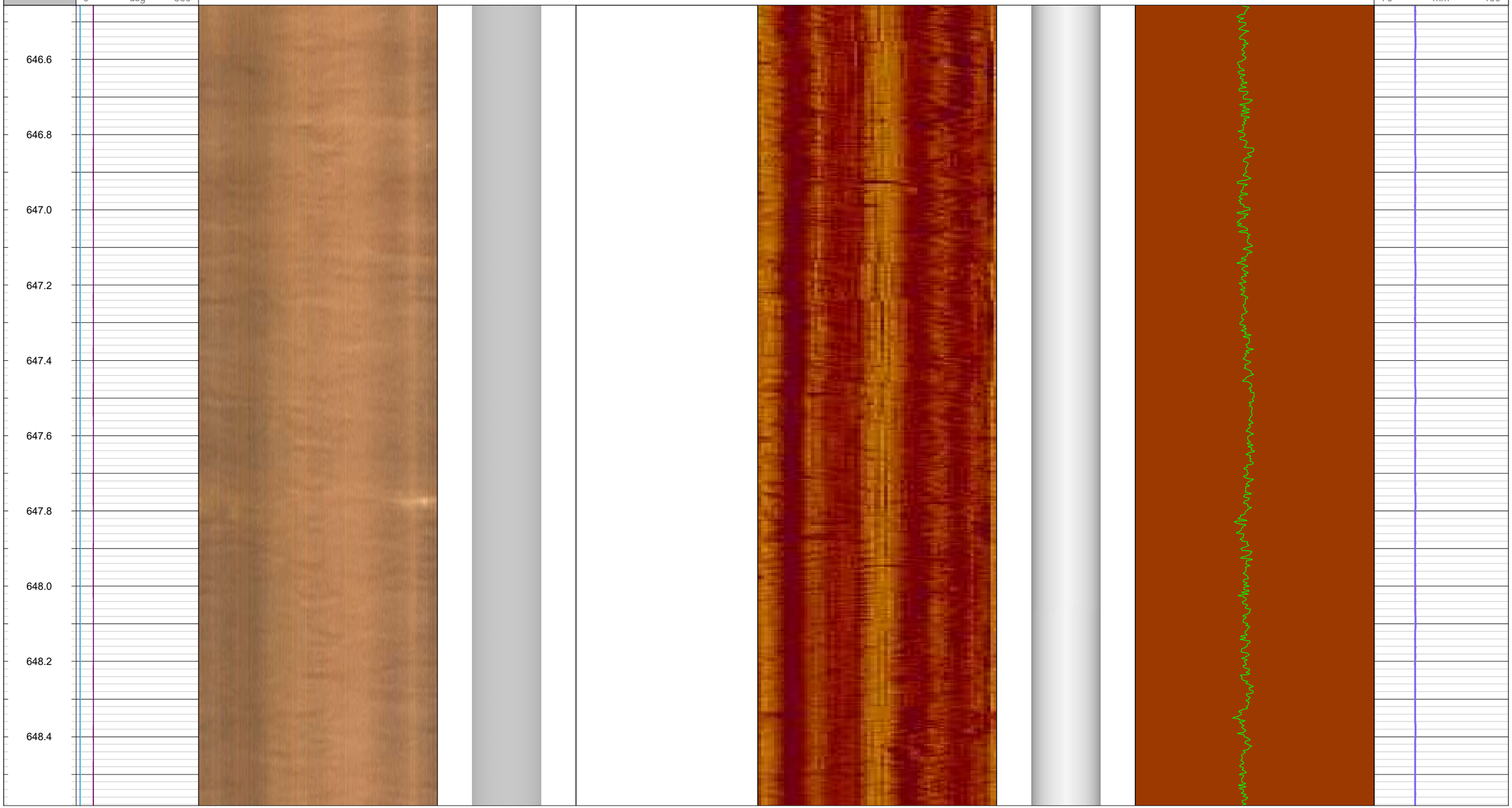
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

642.4
642.6
642.8
643.0
643.2
643.4
643.6
643.8
644.0
644.2

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

644.4
644.6
644.8
645.0
645.2
645.4
645.6
645.8
646.0
646.2
646.4

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

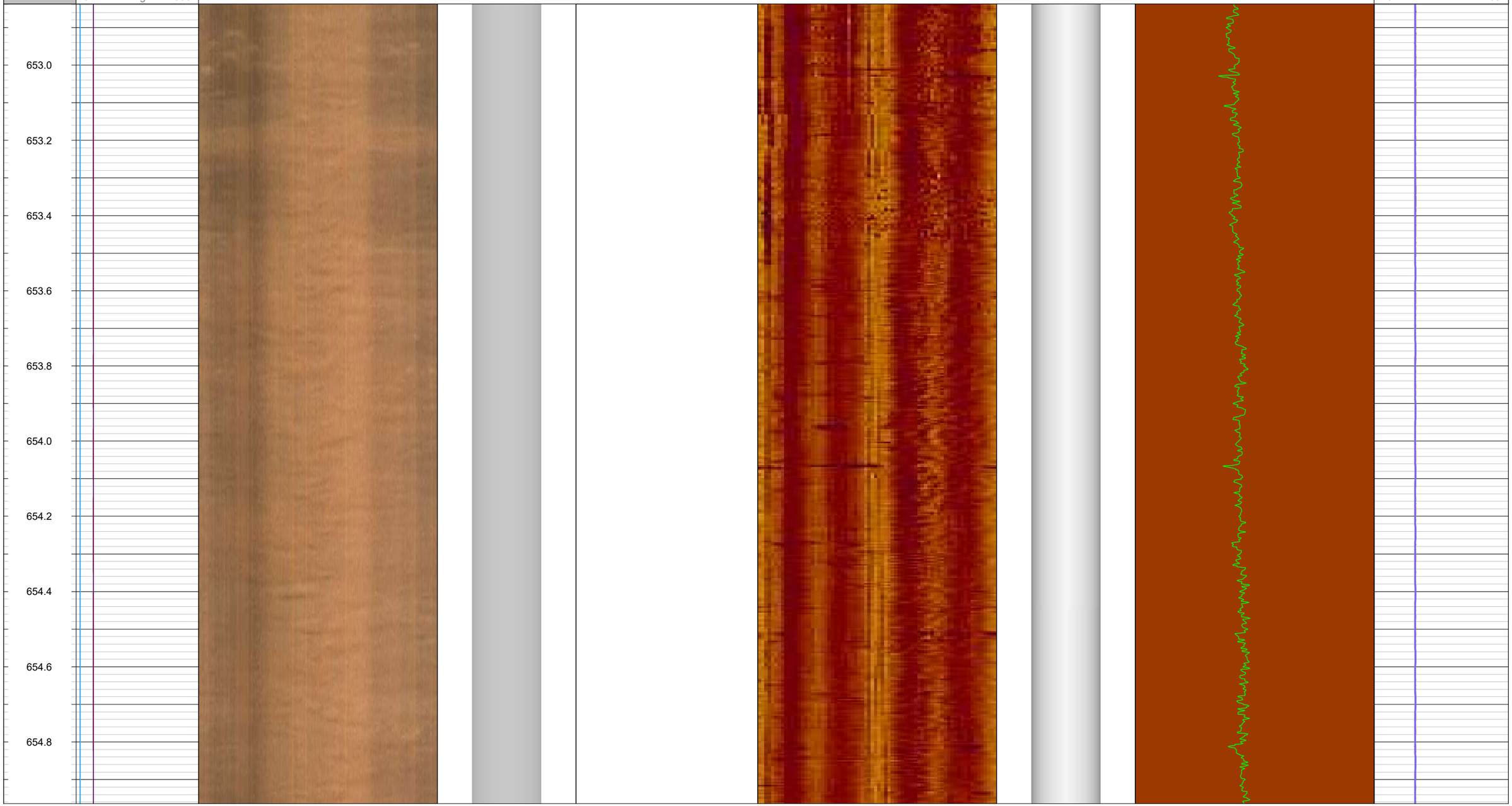


Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
648.6								
648.8								
649.0								
649.2								
649.4								
649.6								
649.8								
650.0								
650.2								
650.4								
650.6								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

650.8
651.0
651.2
651.4
651.6
651.8
652.0
652.2
652.4
652.6
652.8

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



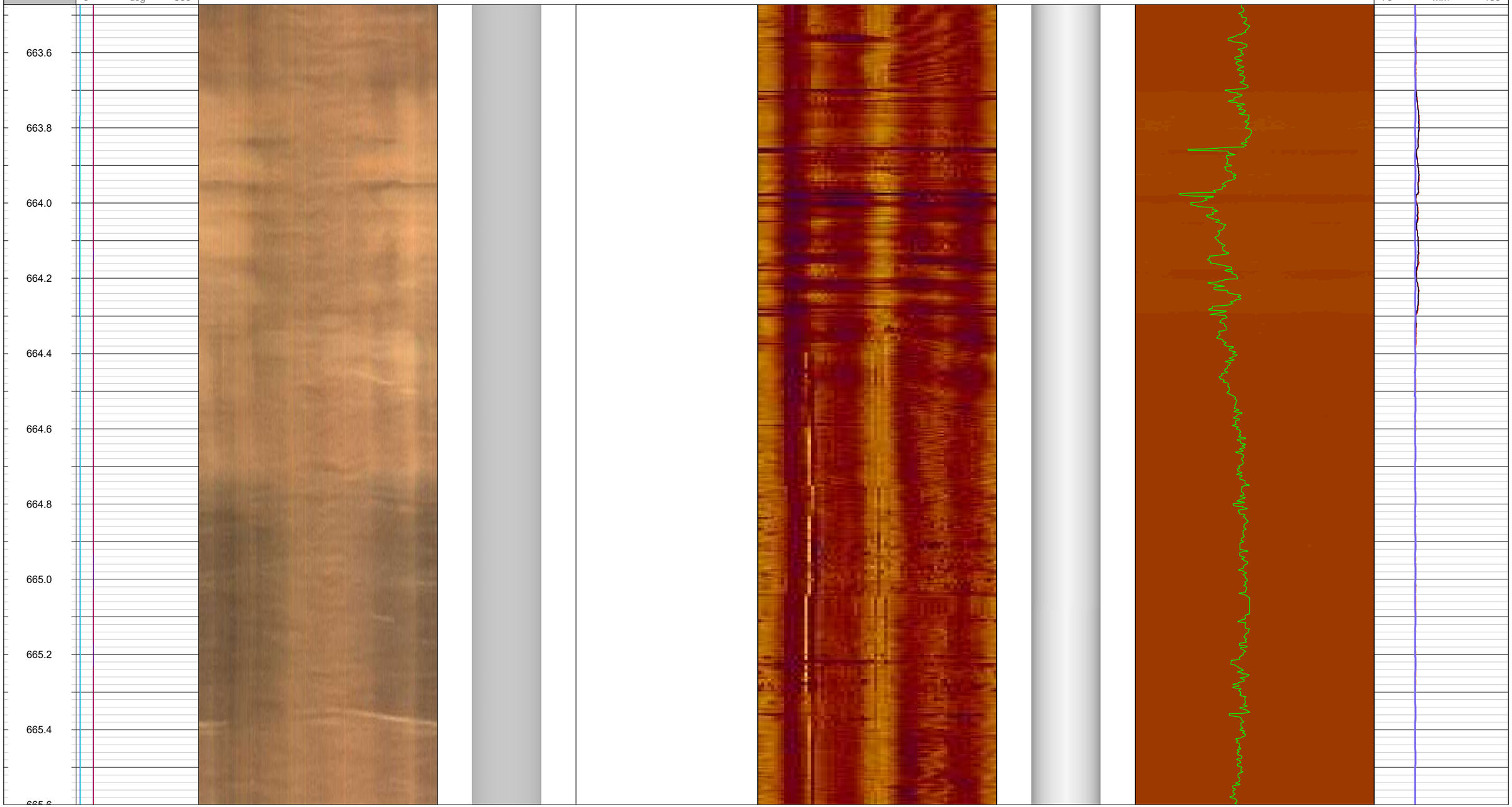
Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
655.0								
655.2								
655.4								
655.6								
655.8								
656.0								
656.2								
656.4								
656.6								
656.8								
657.0								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
657.2								
657.4								
657.6								
657.8								
658.0								
658.2								
658.4								
658.6								
658.8								
659.0								
659.2								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
659.4								
659.6								
659.8								
660.0								
660.2								
660.4								
660.6								
660.8								
661.0								
661.2								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
661.4								
661.6								
661.8								
662.0								
662.2								
662.4								
662.6								
662.8								
663.0								
663.2								
663.4								

Depth	Orientation	Acoustic and Optical Televiewer Analysis							Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000		Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160



Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160

665.6
665.8
666.0
666.2
666.4
666.6
666.8
667.0
667.2
667.4
667.6

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160
667.8								
668.0								
668.2								
668.4								
668.6								
668.8								
669.0								
669.2								
669.4								
669.6								
669.8								

Depth	Orientation	Acoustic and Optical Televiewer Analysis						Caliper
1m:10m	Tilt (ATV) 0 deg 90 Azimuth (ATV) 0 deg 360 Tilt (OTV) 0 deg 90 Azimuth (OTV) 0 deg 360	Image-HS - Zone of Interest 0° 90° 180° 270° 0° Image-HS - Low Resolution 0° 90° 180° 270° 0°	3D Image Log -0°	Amplitude-HS - Zone of Interest 0° 90° 180° 270° 0°	Amplitude-HS Normalized - Zone of Interest 0 7500 0° 90° 180° 270° 0° Amplitude-HS Normalized - Low Resolution 0 7000 0° 90° 180° 270° 0°	3D Acoustic Log -0°	Centralized TT - Zone of Interest Centralized TT - Low Resolution Reflective Index 0 12000	Caliper - min from TT 70 mm 160 Caliper - max from TT 70 mm 160 Caliper - ave from TT 70 mm 160 3-Arm Caliper 70 mm 160