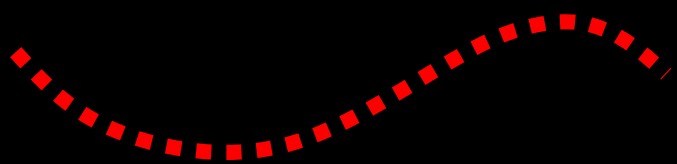


Utah FORGE Stimulation 1 Core Images with Annotated Features and Depths

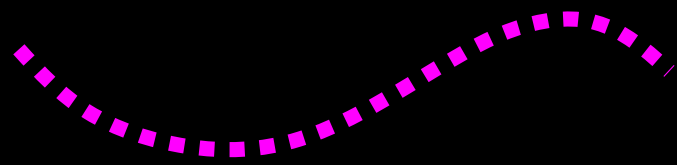
January 2025,
Clay Jones, PhD
Energy & Geoscience Institute at the University of Utah
cjones@egi.utah.edu

Core Images without annotations can be found here:
<https://gdr.openei.org/submissions/1566>

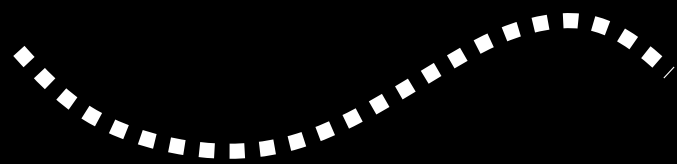
LEGEND



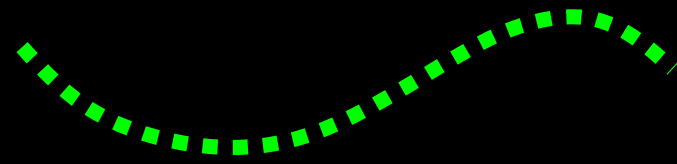
Planar Fracture



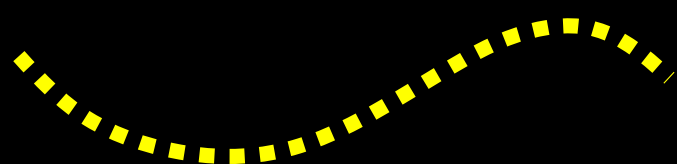
Semi-Planar Fracture



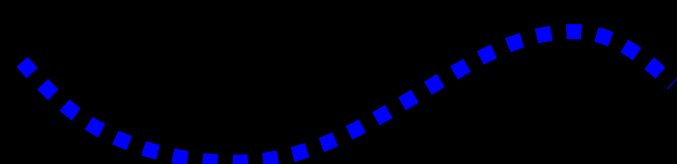
Unbroken Mineralized Fracture



Rough Fracture



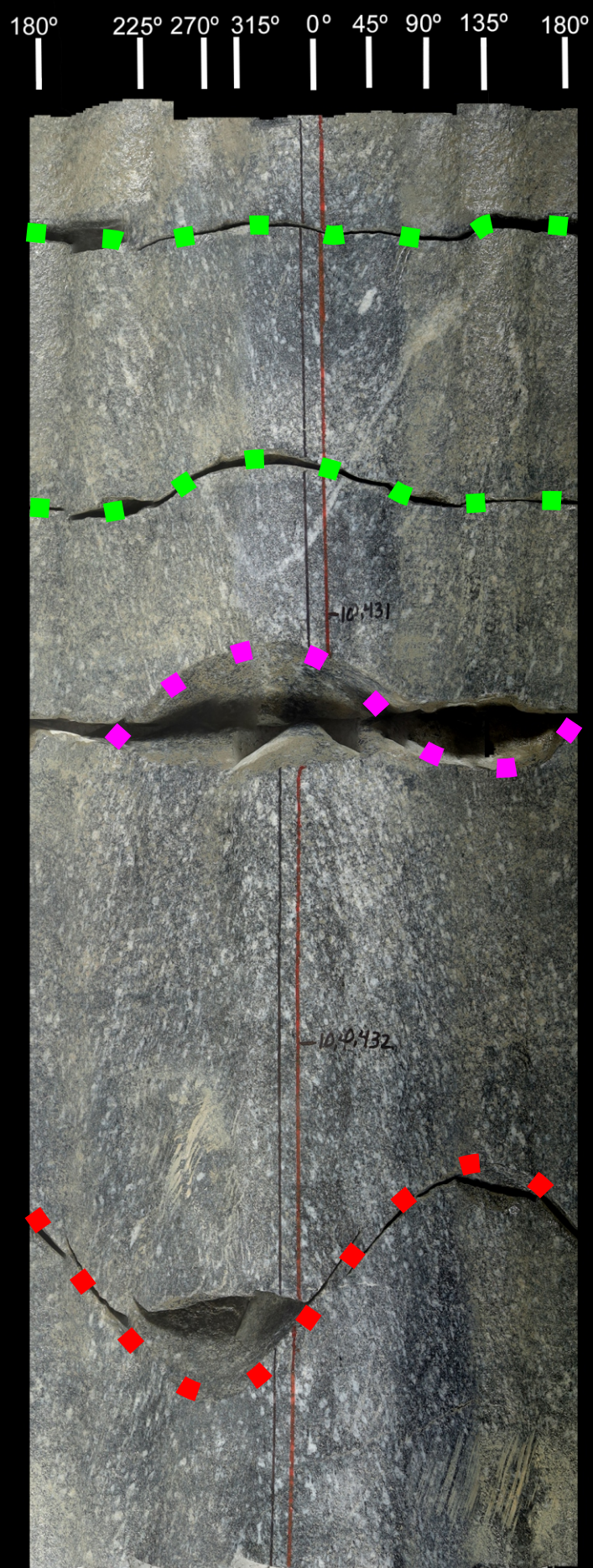
Concave-Convex Surface



Curviplanar Surface



Effervescence with 10% HCl



10,430.2 ft

10,430.7 ft

10,431.3 ft

10,432.4 ft



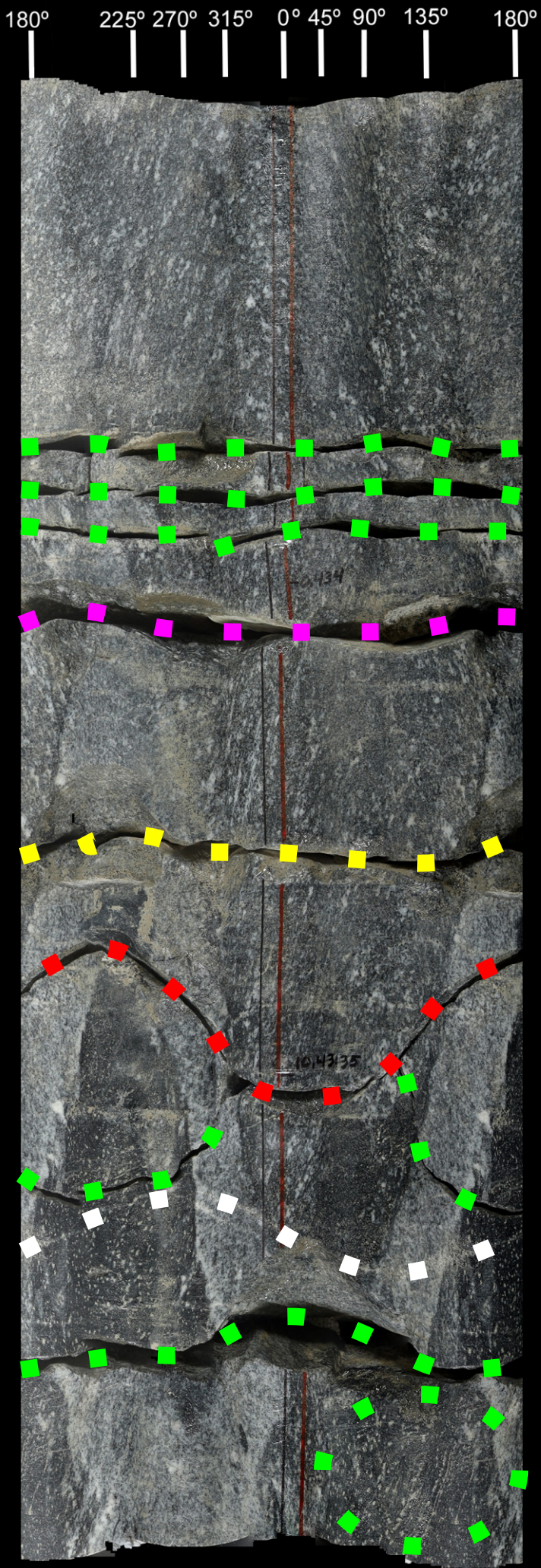
16B(78)-32

10430-10433



16B(78)-32

10433-10436



10,433.7 ft
10,433.8 ft
10,433.9 ft

10,434.1 ft

10,434.6 ft

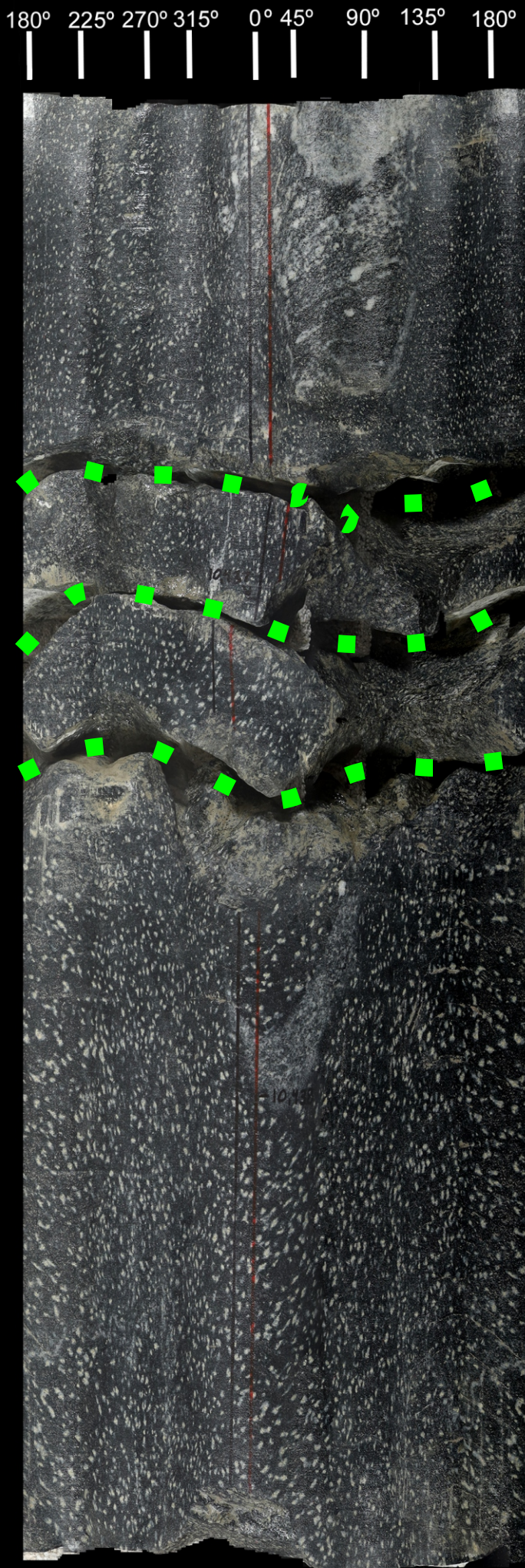
10,434.9 ft

10,435.3 ft

10,435.6 ft

16B(78)-32

10436-10439



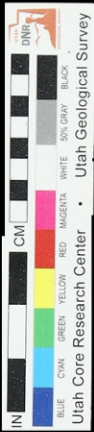
10,436.8 ft

10,437.1 ft

10,437.4 ft

16B(78)-32

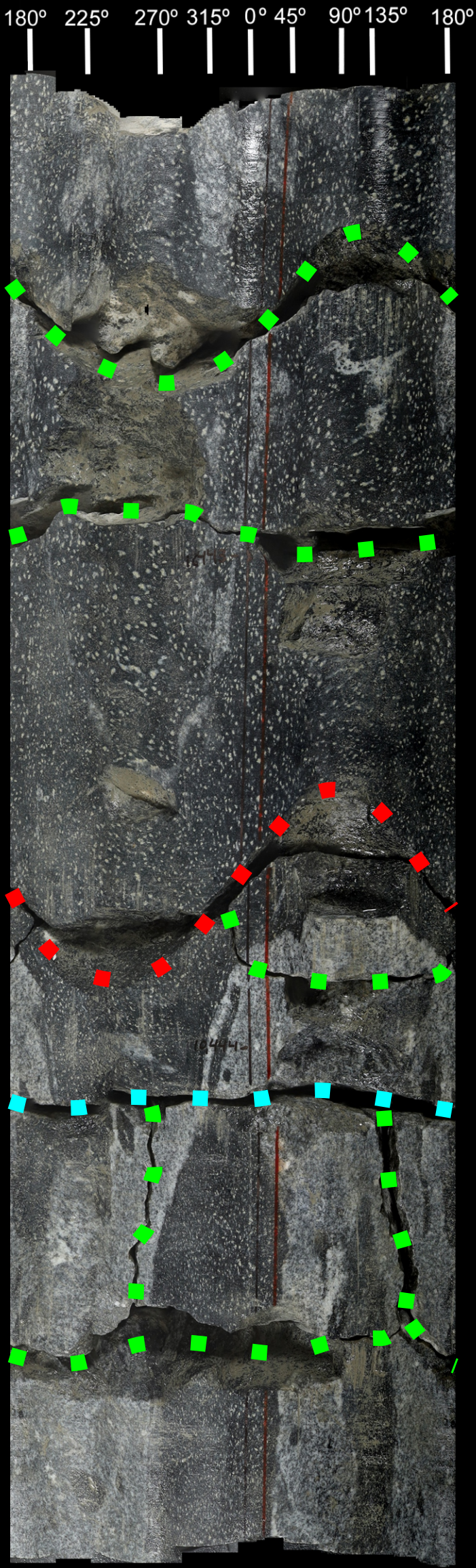
10439-10442



10,439.3 ft

10,439.6 ft

10,441.1 ft



16B(78)-32
10442-10445

10,442.5 ft

10,442.9 ft

10,443.7 ft

10,444.1 ft

10,444.6 ft

16B(78)-32
10445-10448



180° 225° 270° 315° 0° 45° 90° 135° 180°

10,445.1 ft

10,445.5 ft

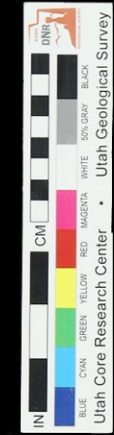
10,445.8 ft

10,446.4 ft

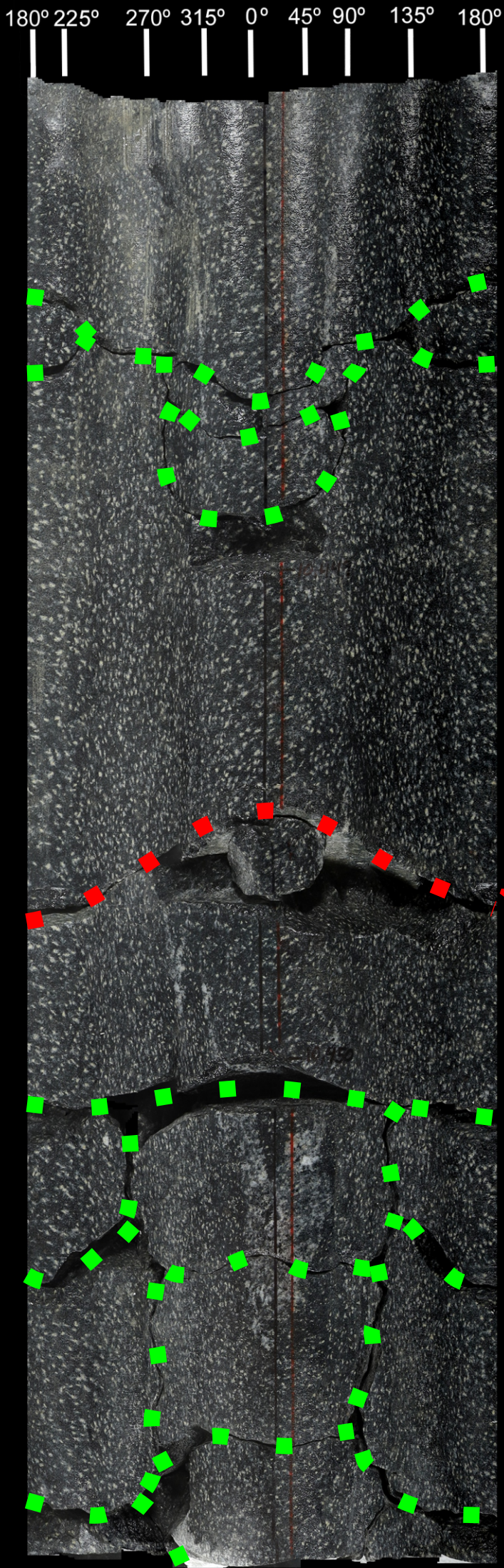
10,446.8 ft

10,447.3 ft

10,447.8 ft



16B(78)-32
10448-10451



10,448.5 ft



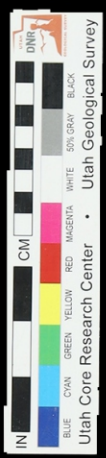
10,449.6 ft

10,450.1 ft

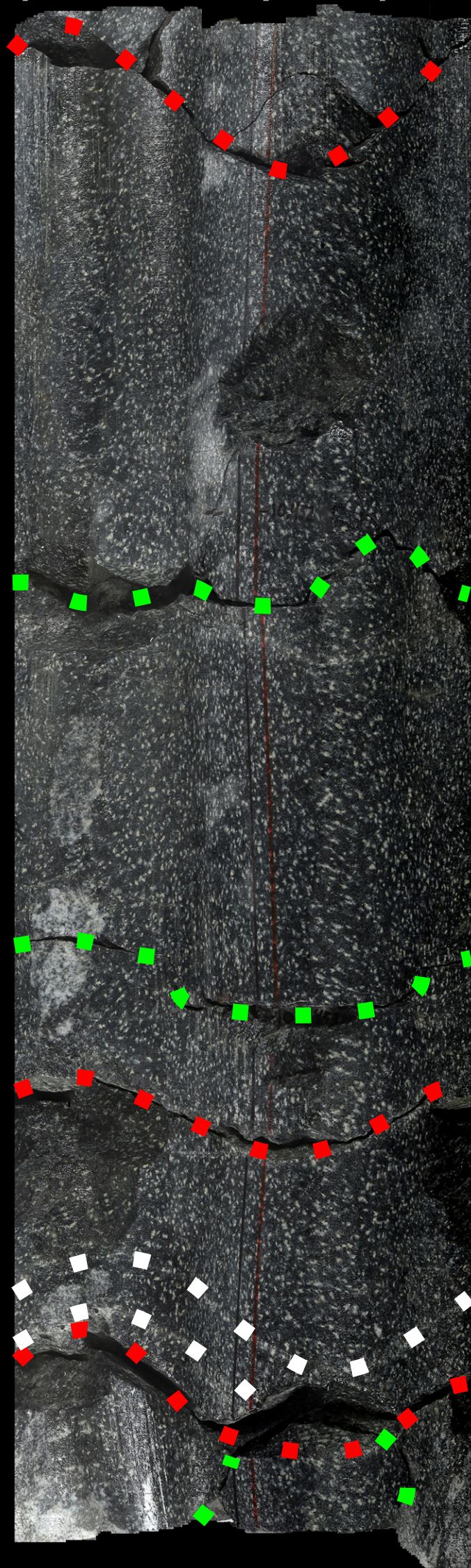
10,450.4 ft

10,450.8 ft

180° 225° 270° 315° 0° 45° 90° 135° 180°



16B(78)-32
10451-10454



10,451.2 ft

10,452.1 ft

10,452.9 ft

10,453.2 ft

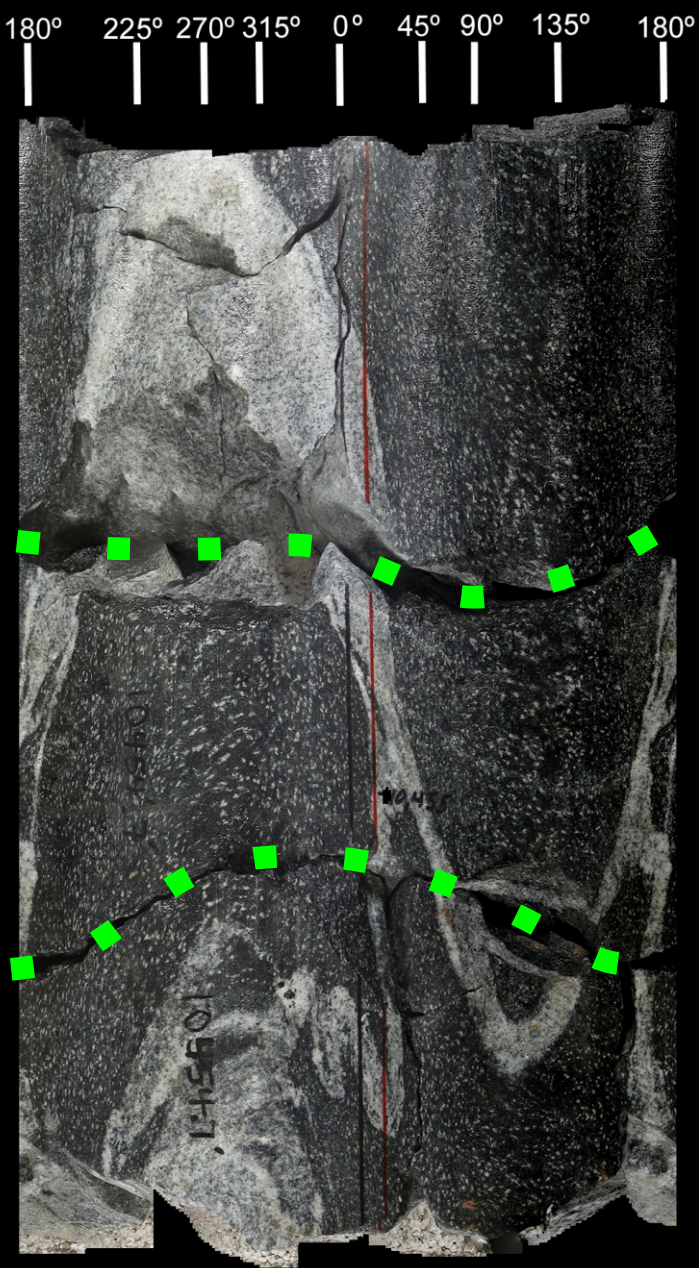
10,453.6 ft

10,453.7 ft

10,453.75 ft

16B(78)-32

10454-10455.7



10,454.7 ft

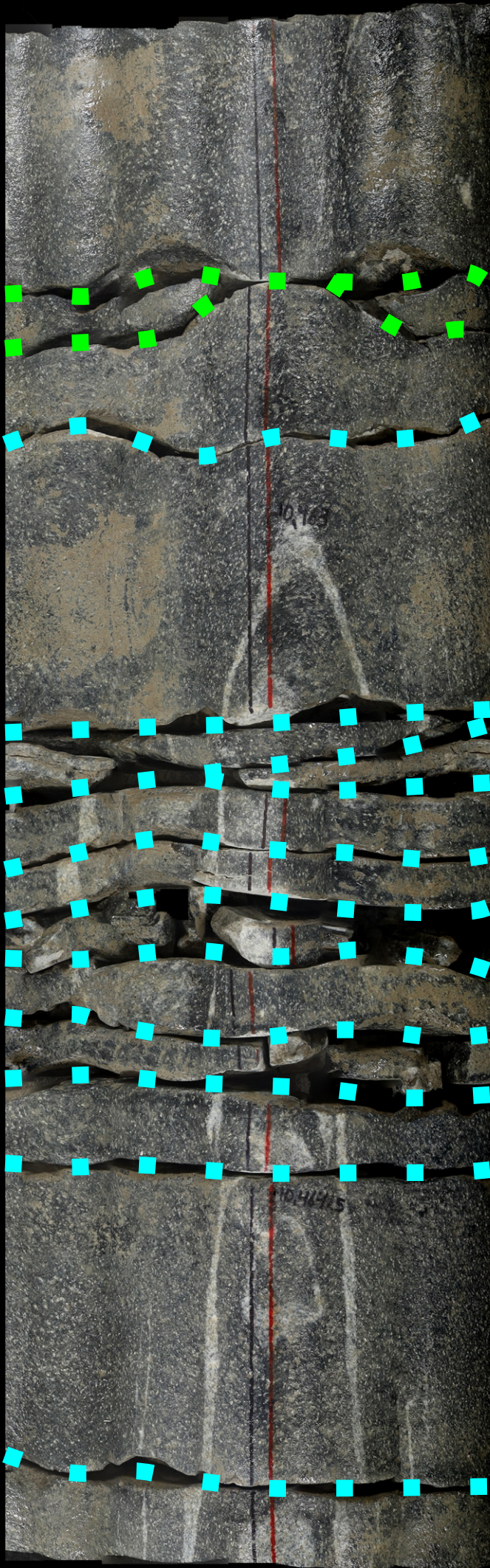
10,455.2 ft

180° 225° 270° 315° 0° 45° 90° 135° 180°



16B(78)-32

10462-10465



10,462.5 ft
10,462.6 ft

10,462.8 ft

10,463.4 ft

10,463.5 ft

10,463.6 ft

10,463.7 ft

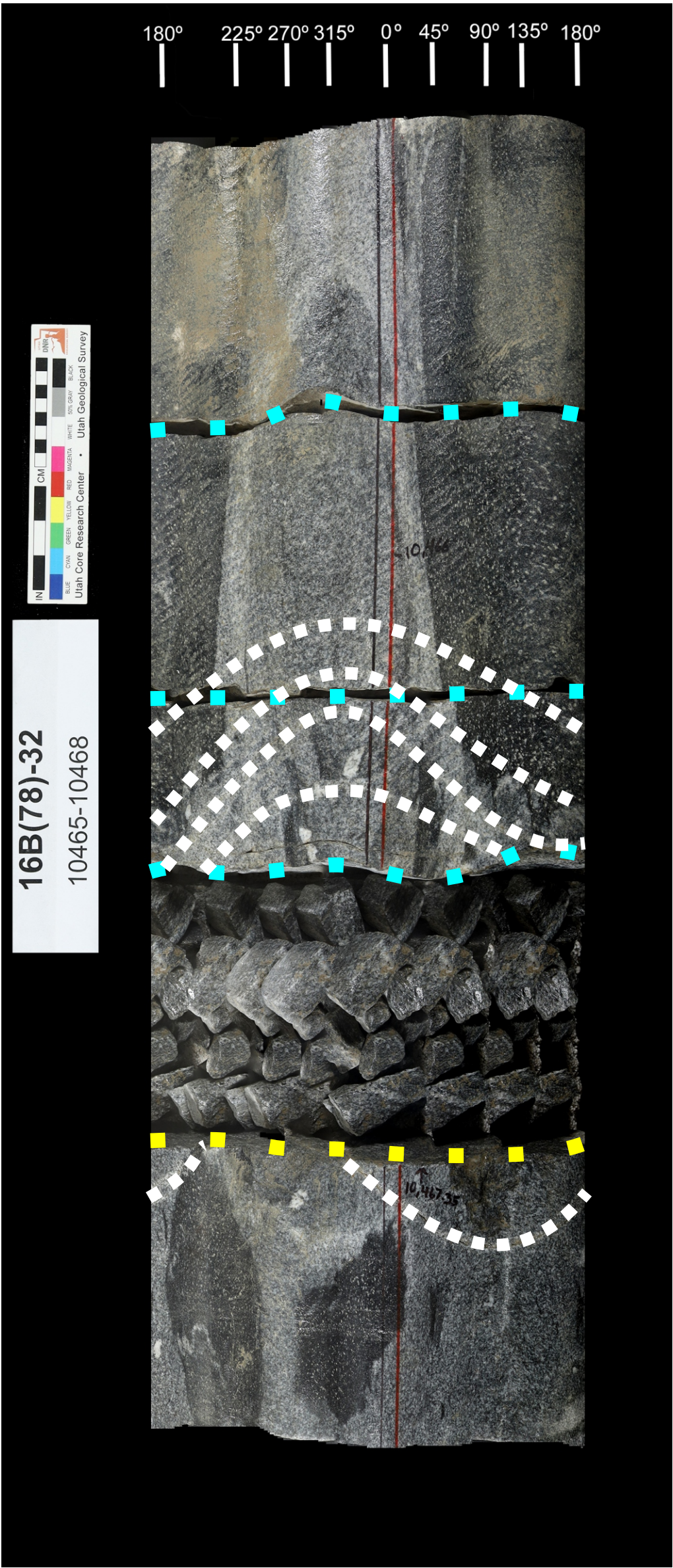
10,463.8 ft

10,464.0 ft

10,464.1 ft

10,464.2 ft

10,464.8 ft



10,465.7 ft

10,466.35 ft

10,466.7 ft

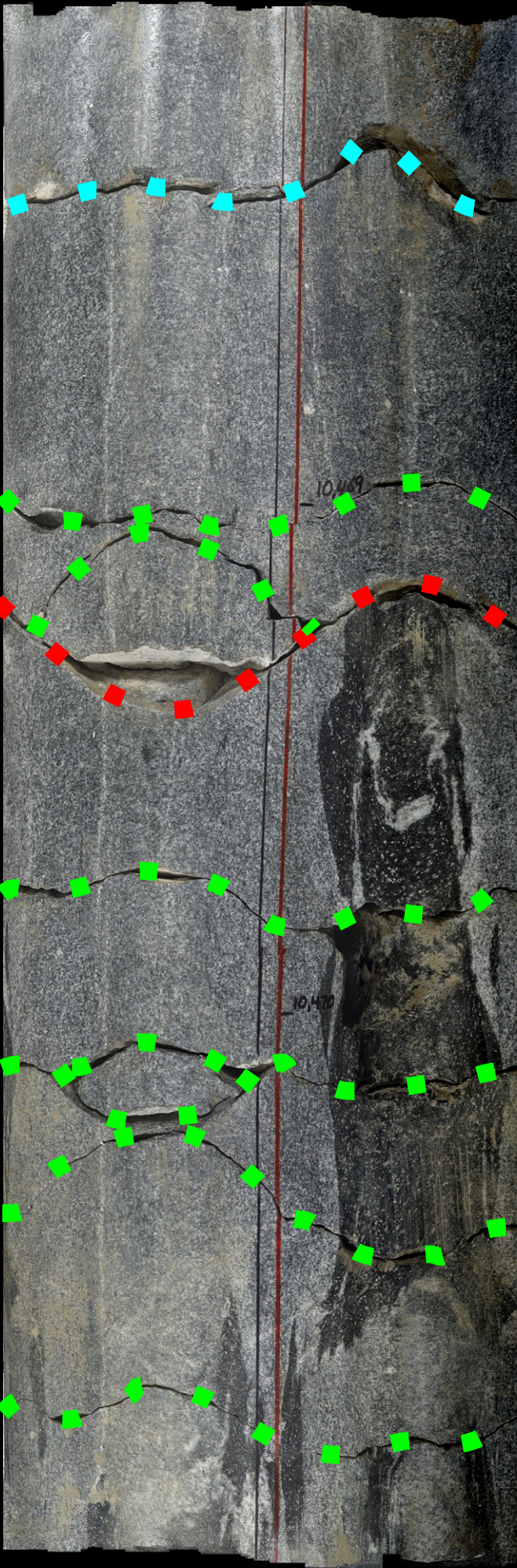
Mineralized/
unbroken:
10,466.3 ft
10,466.4 ft
10,446.5 ft
10,446.6 ft
10,467.5 ft

10,467.3 ft

16B(78)-32
10468-10471



180° 225° 270° 315° 0° 45° 90° 135° 180°



10,468.3 ft

10,469 ft
10,469.2 ft

10,469.3 ft

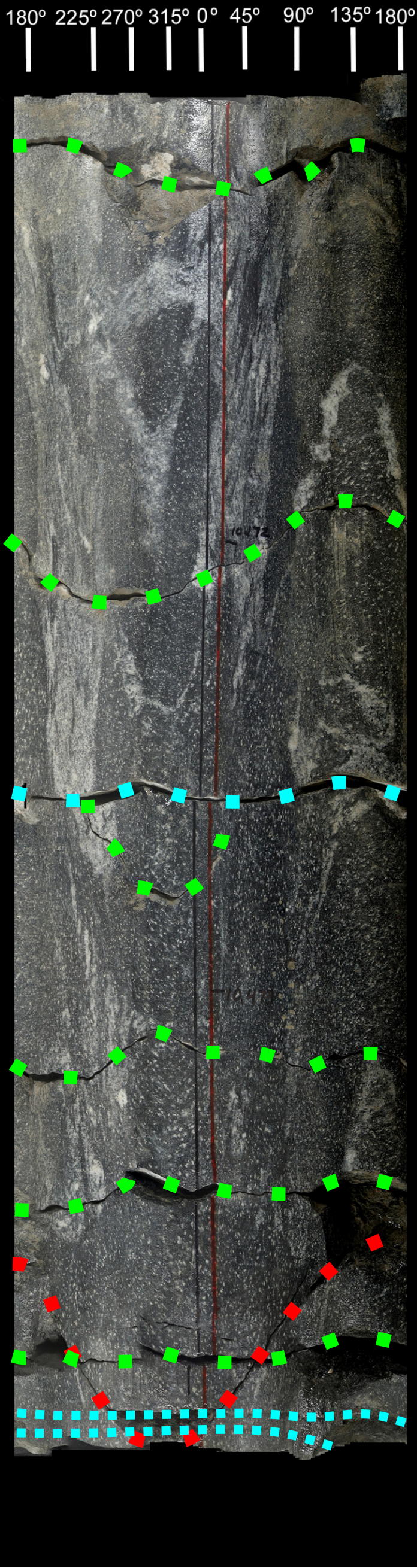
10,469.8 ft

10,470.1 ft
10,470.2 ft
10,470.3 ft

10,470.7 ft



16B(78)-32
10471-10474



10,471.3 ft

10,472 ft

10,472.6 ft
10,472.7 ft

10,473.1 ft

10,473.4 ft



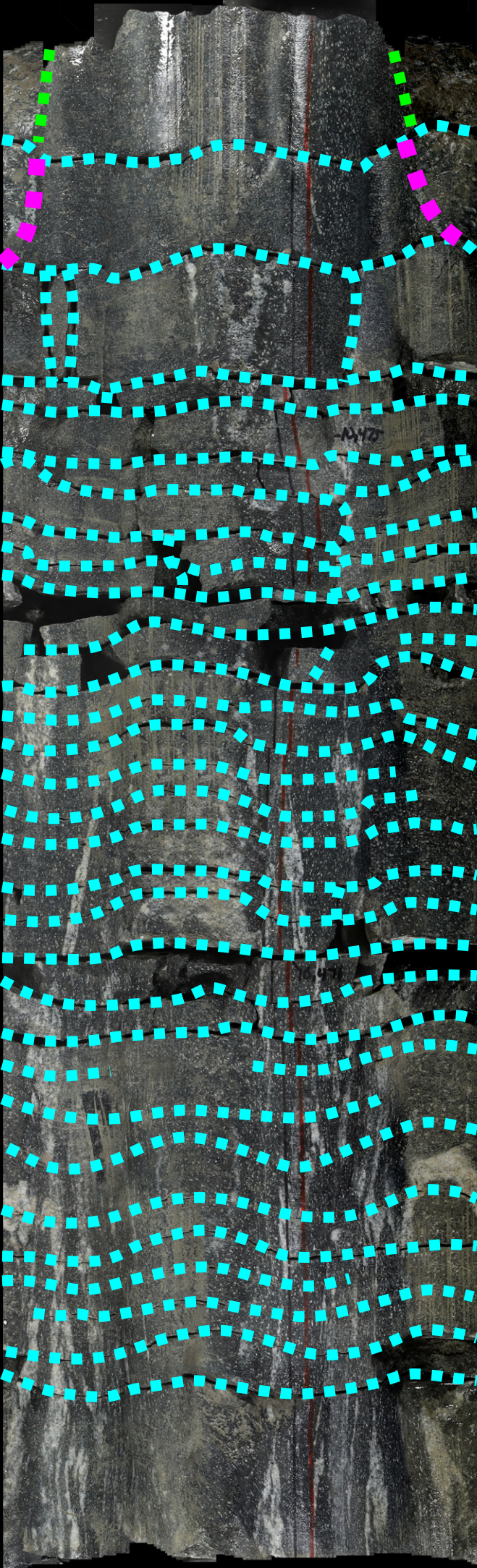
10,473.75 ft
10,473.8 ft

10,473.9 ft
10,473.95 ft

180° 225° 270° 315° 0° 45° 90° 135° 180°



16B(78)-32
10474-10477

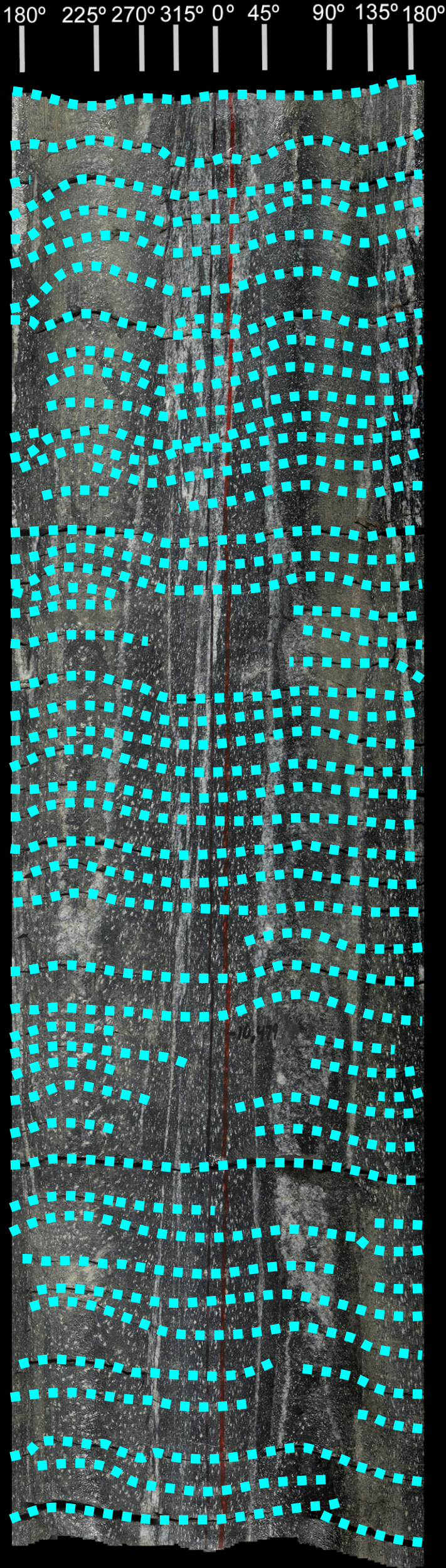
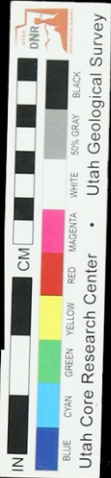


10,474.3 ft
★ 10,474.45 ft
10,474.6 ft

10,474.85 ft	10,474.9 ft
10,475.05 ft	10,475.1 ft
10,475.18 ft	10,475.22 ft
10,475.28 ft	
10,475.37 ft	10,475.45 ft
10,475.52 ft	10,475.57 ft
10,475.64 ft	10,475.7 ft
10,475.75 ft	
10,475.84 ft	10,475.89 ft
10,475.98 ft	10,476.06 ft
10,476.11 ft	
10,476.18 ft	10,476.26 ft
10,476.32 ft	
10,476.41 ft	
10,476.47 ft	10,476.52 ft
10,476.58 ft	10,476.62 ft
10,476.72 ft	

16B(78)-32

10477-10480



10,477 ft

10,477.11 ft

10,477.2 ft

10,477.32 ft

10,477.39 ft

10,477.54 ft

10,477.64 ft

10,477.7 ft

10,477.79 ft

10,477.92 ft

10,478.06 ft

10,478.13 ft

10,478.23 ft

10,478.33 ft

10,478.44 ft

10,478.56 ft

10,478.68 ft

10,478.81 ft

10,478.94 ft

10,479.08 ft

10,479.21 ft

10,479.30 ft

10,479.43 ft

10,479.56 ft

10,479.64 ft

10,479.71 ft

10,479.81 ft

10,479.94 ft

10,477.26 ft

10,477.48 ft

10,477.59 ft

10,477.73 ft

10,477.84 ft

10,477.97 ft

10,478.28 ft

10,478.38 ft

10,478.49 ft

10,478.61 ft

10,478.75 ft

10,478.88 ft

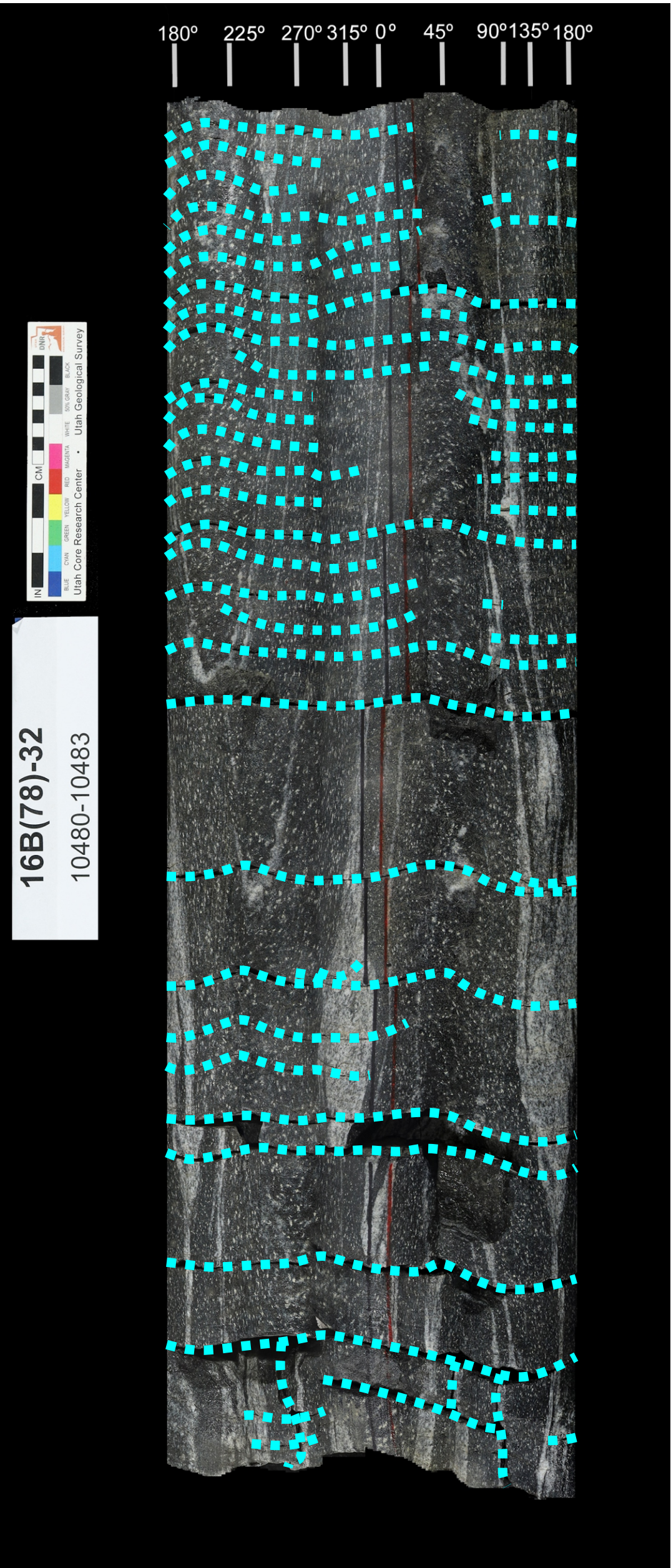
10,478.99 ft

10,479.14 ft

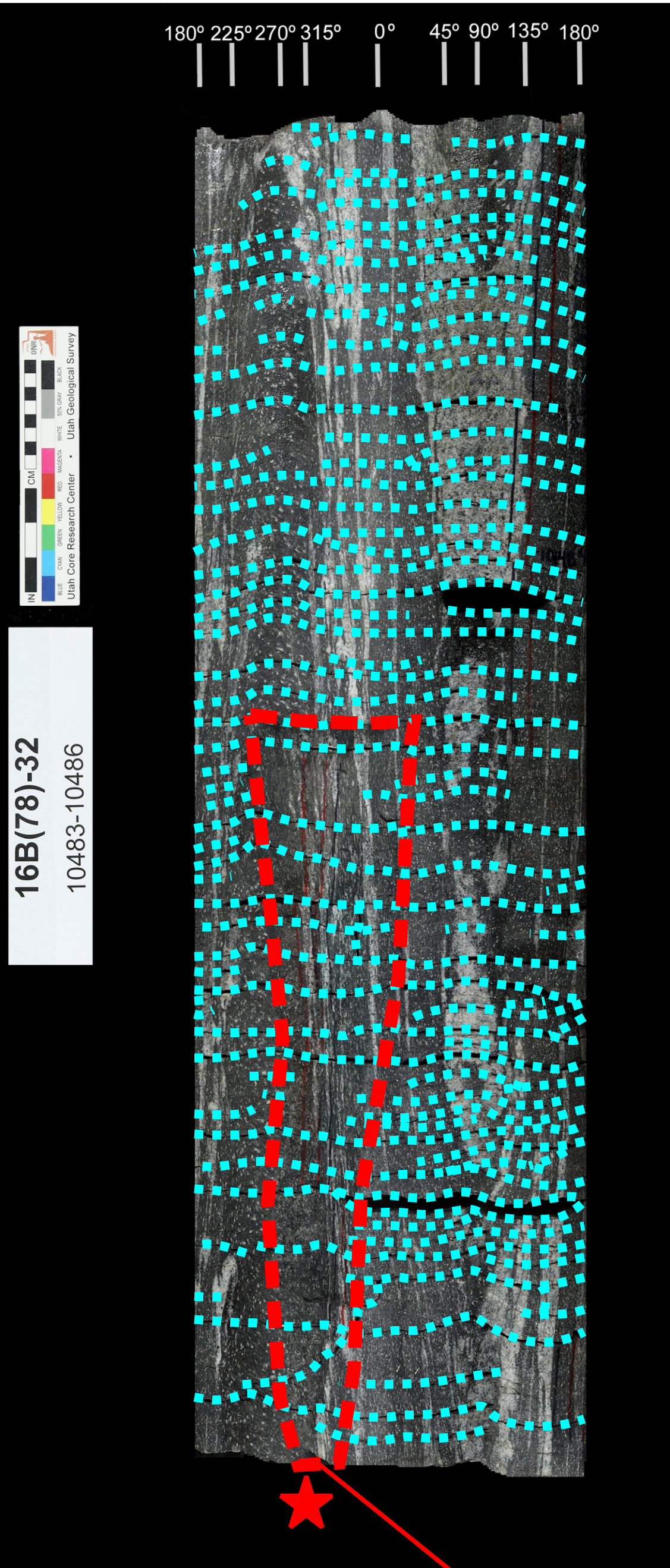
10,479.35 ft

10,479.49 ft

10,479.88 ft

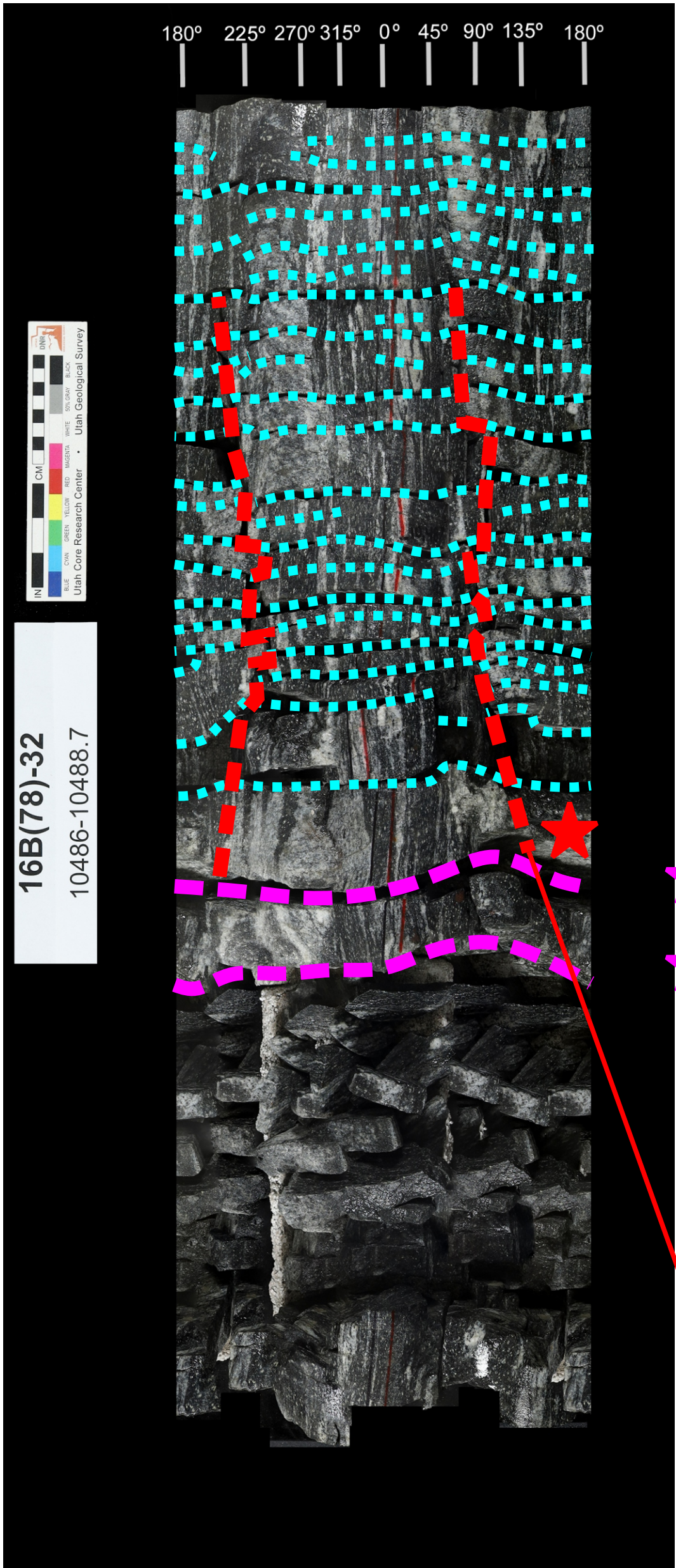


- | | |
|--------------|--------------|
| 10,480.08 ft | 10,480.13 ft |
| 10,480.2 ft | 10,480.25 ft |
| 10,480.3 ft | 10,480.37 ft |
| 10,480.42 ft | 10,480.47 ft |
| 10,480.53 ft | 10,480.6 ft |
| 10,480.65 ft | 10,480.7 ft |
| 10,480.77 ft | 10,480.83 ft |
| 10,480.89 ft | 10,480.95 ft |
| 10,481.02 ft | 10,481.1 ft |
| 10,481.17 ft | 10,481.22 ft |
| 10,481.34 ft | |
| 10,481.7 ft | |
| 10,481.96 ft | |
| 10,482.05 ft | |
| 10,482.14 ft | |
| 10,482.25 ft | |
| 10,482.34 ft | |
| 10,482.6 ft | |
| 10,482.75 ft | |
| 10,482.9 ft | |



10,483.04 ft	
10,483.13 ft	
10,483.23 ft	10,483.18 ft
10,483.32 ft	10,483.28 ft
10,483.43 ft	10,483.37 ft
10,483.5 ft	
	10,483.55 ft
10,483.64 ft	
10,483.71 ft	
10,483.81 ft	10,483.77 ft
	10,483.86 ft
10,483.92 ft	
10,484.06 ft	10,483.97 ft
10,484.1 ft	
10,484.14 ft	10,484.1 ft
10,484.24 ft	10,484.29 ft
10,484.35 ft	10,484.4 ft
10,484.46 ft	10,484.5 ft
10,484.57 ft	
10,484.65 ft	
10,484.75 ft	
	10,484.8 ft
10,484.86 ft	
10,484.94 ft	
10,485.03 ft	
10,485.13 ft	10,485.1 ft
10,485.22 ft	10,485.18 ft
	10,485.28 ft
10,485.35 ft	
10,485.44 ft	10,485.4 ft
10,485.5 ft	10,485.47 ft
10,485.58 ft	10,485.53 ft
10,485.68 ft	
10,485.81 ft	
10,485.89 ft	
	10,485.95 ft

core parallel frac runs from:
10,484.35 to 10,486 ft.
abrupt termination at curvilinear
frac at 10,484.35 ft
Used ~midpoint for graphing @
10,485.15 ft



10,486.07 ft
10,486.24 ft
10,486.38 ft
10,486.53 ft
10,486.67 ft

10,486.89 ft
10,487.0 ft
10,487.14 ft
10,487.25 ft
10,487.38 ft

10,487.56 ft

10,486.13 ft
10,486.32 ft
10,486.43 ft
10,486.59 ft
10,486.74 ft

10,487.07 ft
10,487.18 ft
10,487.31 ft

★ 10,487.8 ft
★ 10,488.0 ft

★ core parallel frac runs from:
10,486.43 to 10,487.8 ft.
abrupt terminations on both ends
Used ~midpoint for graphing @
10,487.1 ft