

## **Unconfined Compressive Strength of Rock Core (ASTM D7012 Method C)**

(Project: ROS-772-7.64, Boring Location: B-001-0-23, NQ2-1, Depth: 19.1-19.5ft)

Tested Date: 11/18/2024

### **Specimen Properties**

|  |       |
|--|-------|
| Average Dia., $D_{avg}$ (in):                      | 1.97  |
| Average Height $H_{avg}$ (in):                     | 4.35  |
| Length to Diameter Ratio:                          | 2.21  |
| Area, $A$ (in <sup>2</sup> ):                      | 3.04  |
| Volume, $V$ (in <sup>3</sup> ):                    | 13.20 |
| Wet Mass of Specimen (lb):                         | 1.0   |
| Moisture Content (%):                              | 1.4   |
| Dry Mass of Specimen (lb):                         | 1.0   |
| Wet Unit Weight, $\gamma$ (lb/ft <sup>3</sup> ):   | 135.6 |
| Dry Unit Weight, $\gamma_d$ (lb/ft <sup>3</sup> ): | 133.7 |

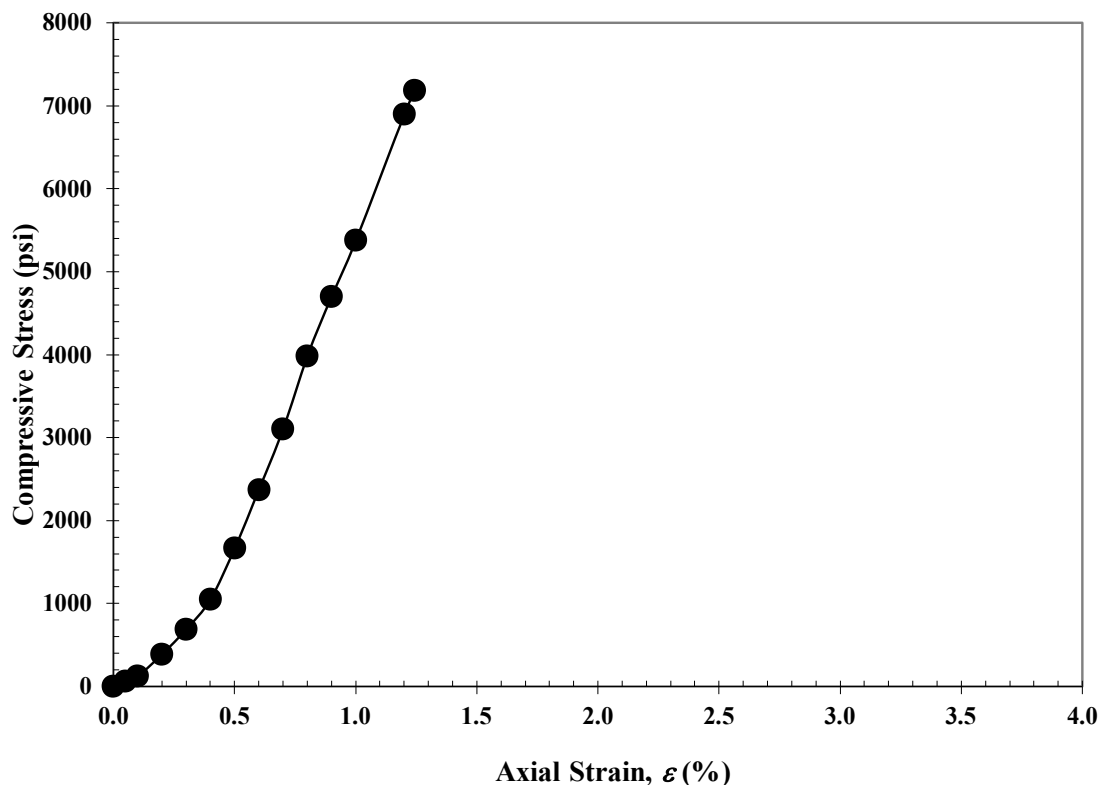
### **Final Specimen Figure**



### **Results**

|  |             |
|--|-------------|
| Unconfined Compressive Strength (psi): | <b>7187</b> |
| Strain (%):                            | <b>1.2</b>  |

**50** (MPa)



**Notes:** Shale, black, unweathered, moderately strong, slightly fissile.