

## Elastic Properties Measurement Report

| Sample and Experiment Information |                         |                 |          |
|-----------------------------------|-------------------------|-----------------|----------|
| Well:                             | JROC                    | Organization:   | UND/EERC |
| Depth:                            | 9751 ft                 | Transducer:     |          |
| Formation:                        | Precambrian             | Rock type:      | Granite  |
| Dry bulk density:                 | 2.759 g/cm <sup>3</sup> | Porosity:       | 0.23%    |
| Sat. bulk density:                |                         | Pore fluids:    |          |
| Diameter:                         | 25.40 mm                | Entered Length: | 50.70 mm |

Expt name: Elastic Properties Measurements at Different Confining Pressures

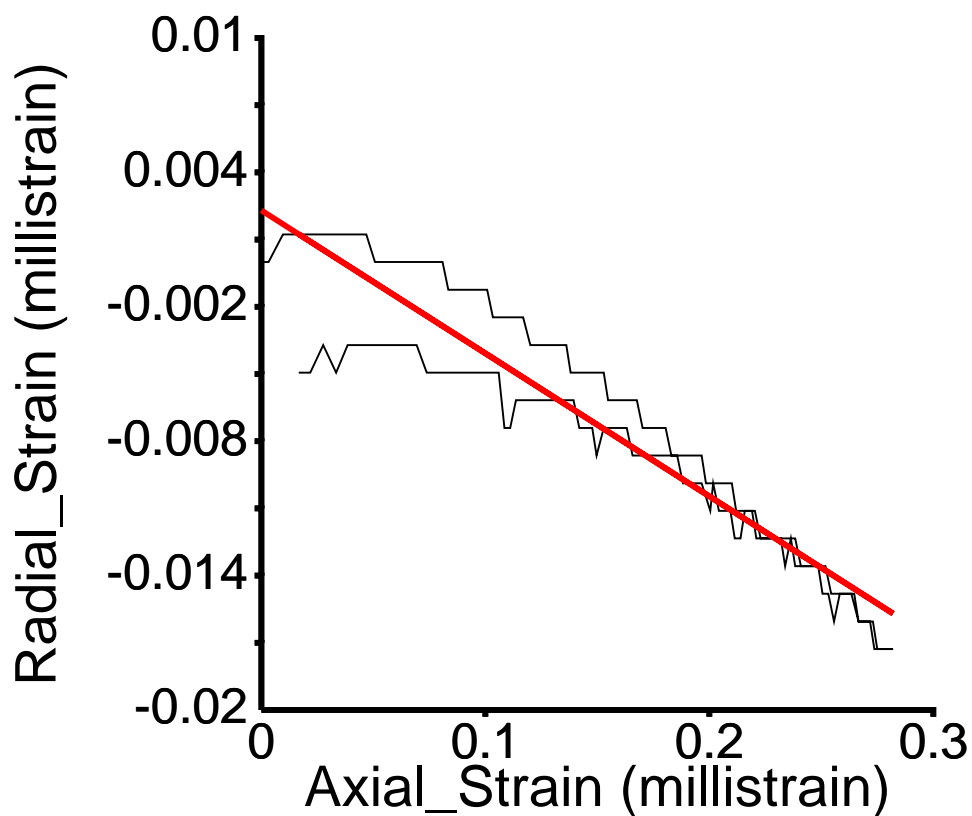
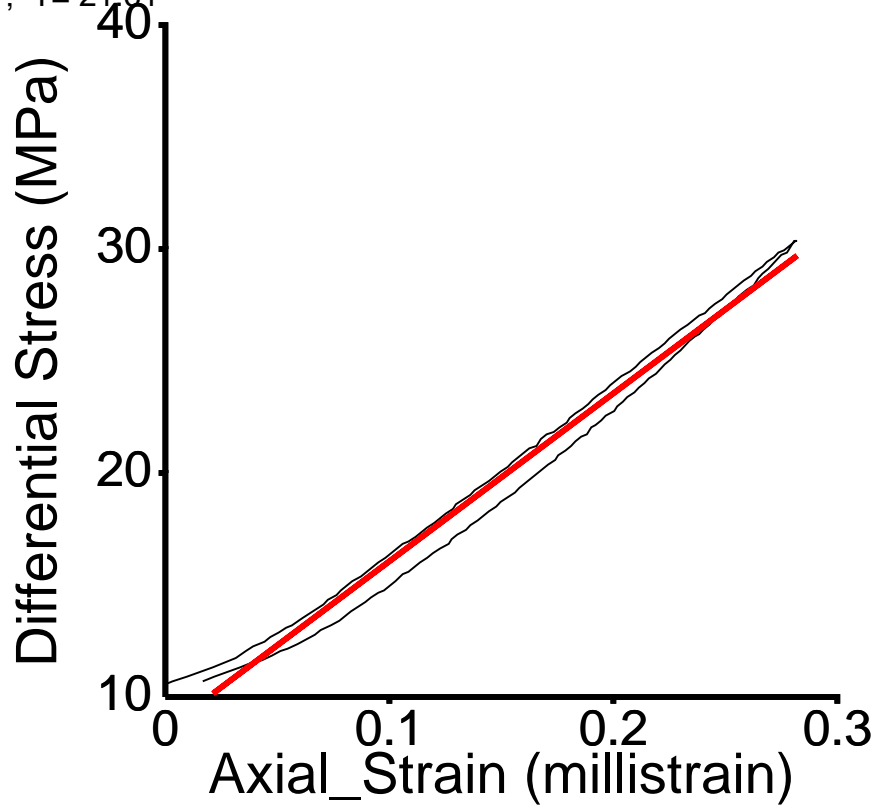
| Elastic properties measured at different confining pressures |      |      |       |       |       |       |        |
|--|------|------|-------|-------|-------|-------|--------|
| Event  | Conf | Diff | E     | n     | K     | G     | P      |
|  | MPa  | MPa  | GPa   |       | GPa   | GPa   | GPa    |
| 1  | 10.2 | 9.9  | 74.96 | 0.064 | 28.64 | 35.23 | 75.62  |
| 2  | 20.3 | 20.0 | 83.60 | 0.174 | 42.68 | 35.62 | 90.17  |
| 3  | 30.2 | 29.8 | 85.09 | 0.270 | 61.60 | 33.51 | 106.28 |
| 4  | 40.3 | 29.8 | 88.43 | 0.328 | 85.60 | 33.30 | 130.00 |

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File: PR\_130856\_S1\_StaticProp Entry: 0 Depth: 0 m

1 cycles, Full

Cp= 10.28 ; T= 21.61



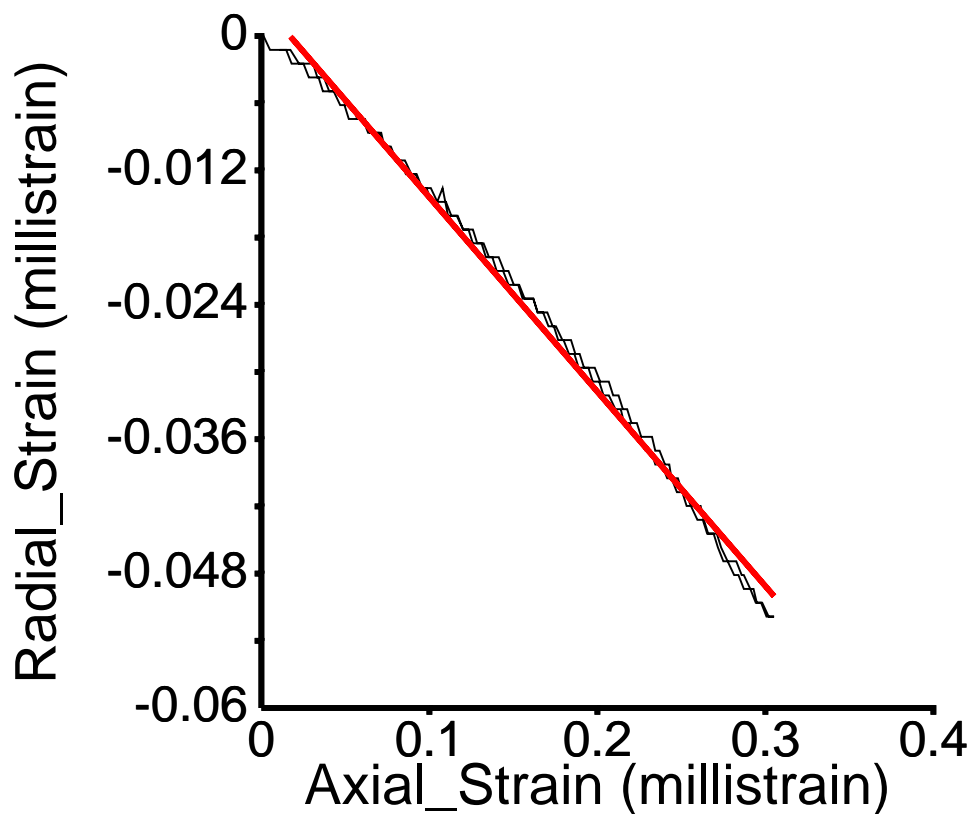
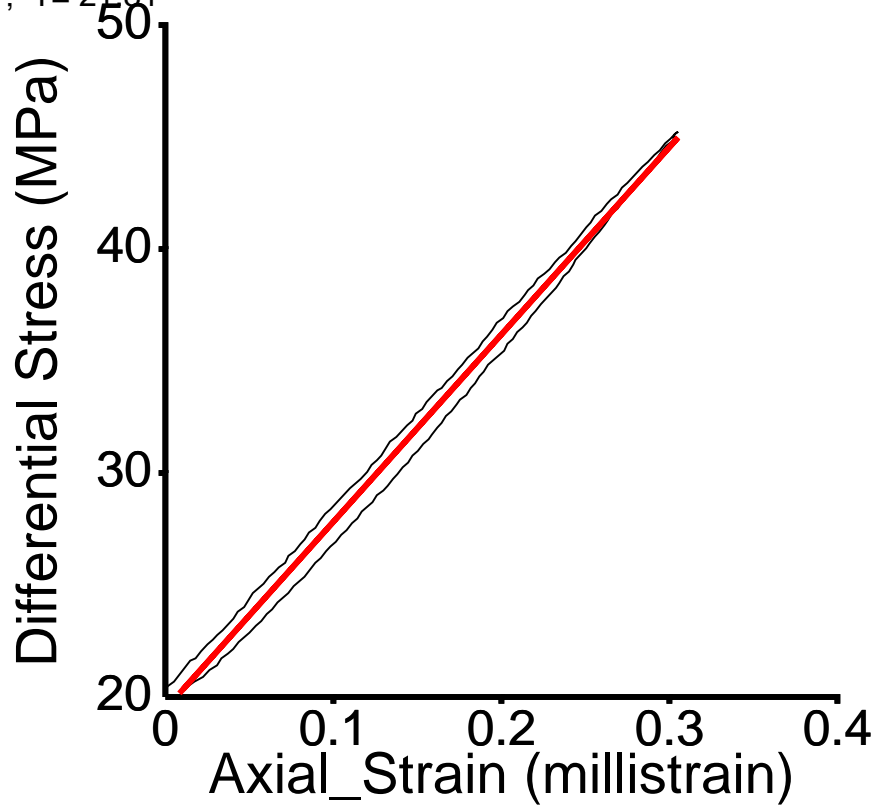
Mode: UStress  
K = 28.64 GPa  
G = 35.23 GPa  
E = 74.96 GPa  
 $\nu$  = 0.06383  
P = 75.62 GPa

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File: PR\_130856\_S1\_StaticProp Entry: 1 Depth: 0 m

1 cycles, Full

Cp= 20.31 ; T= 21.81



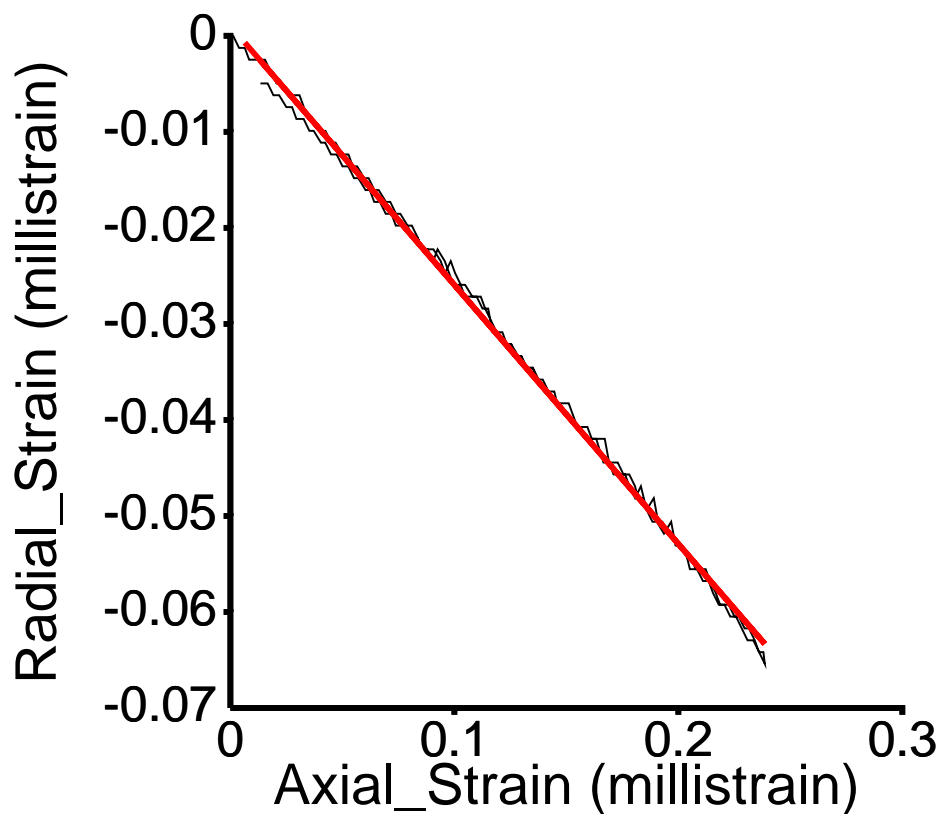
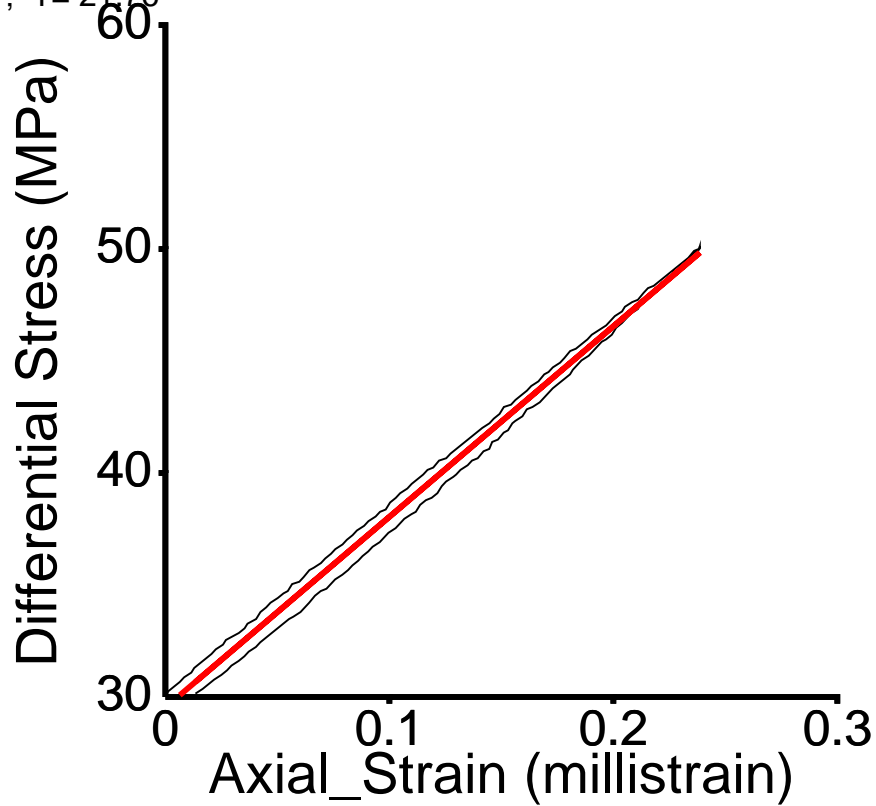
Mode: UStress  
K = 42.68 GPa  
G = 35.62 GPa  
E = 83.6 GPa  
n = 0.1736  
P = 90.17 GPa

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File: PR\_130856\_S1\_StaticProp Entry: 2 Depth: 0 m

1 cycles, Full

Cp= 30.29 ; T= 21.76



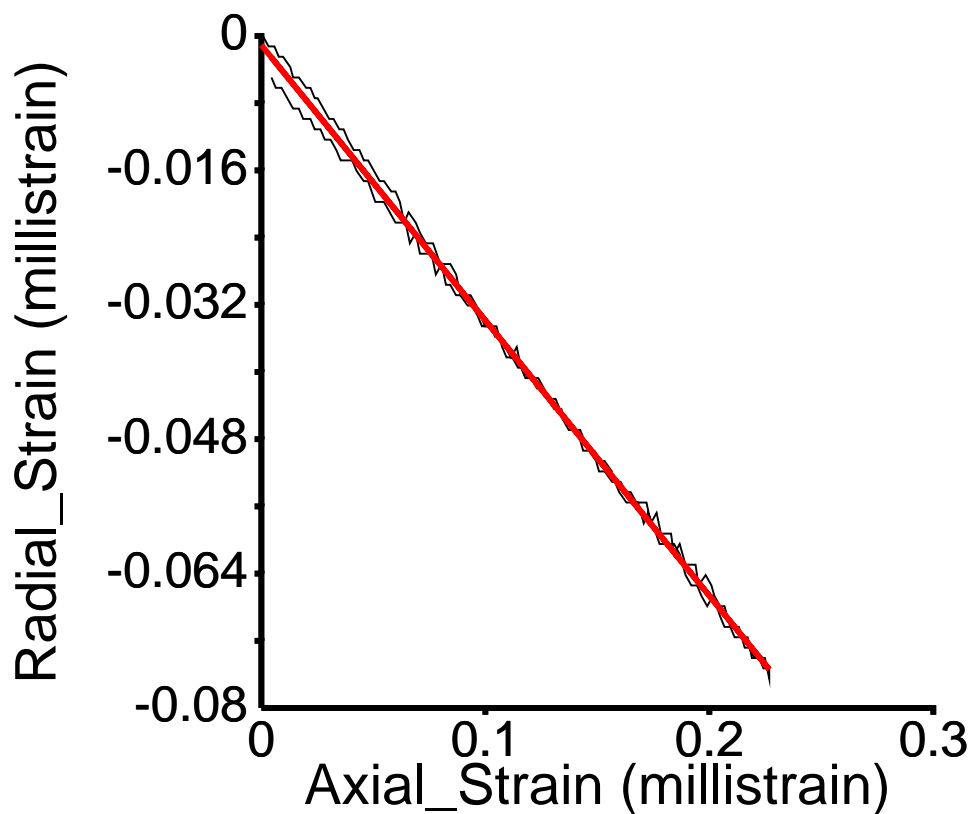
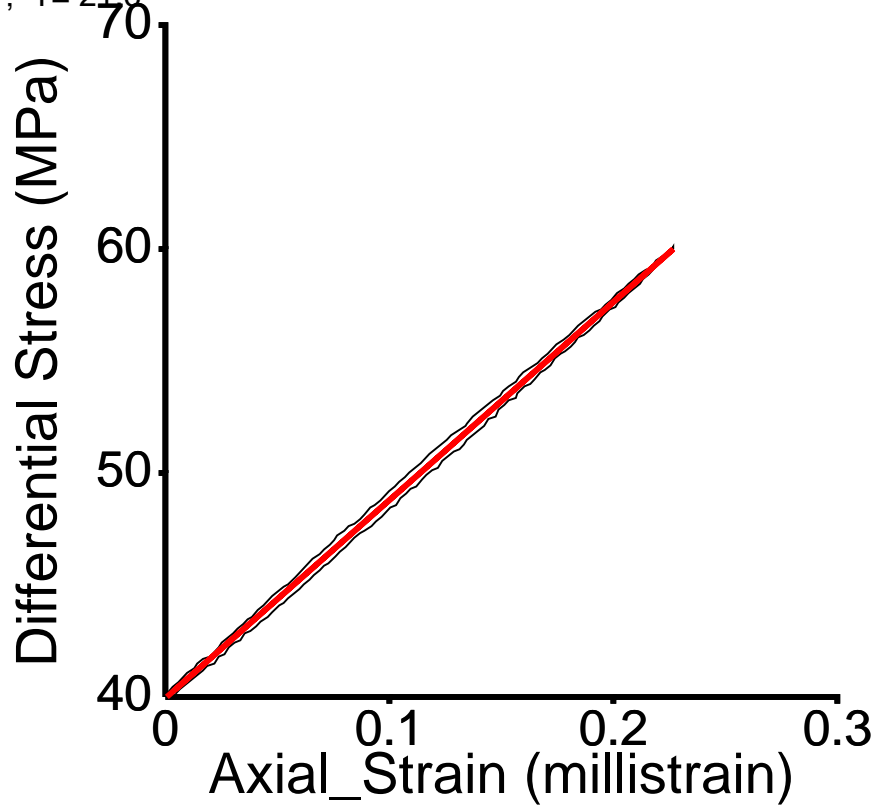
Mode: UStress  
K = 61.6 GPa  
G = 33.51 GPa  
E = 85.09 GPa  
n = 0.2698  
P = 106.3 GPa

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File: PR\_130856\_S1\_StaticProp Entry: 4 Depth: 0 m

1 cycles, Full

Cp= 40.33 ; T= 21.6



Mode: UStress  
K = 85.6 GPa  
G = 33.3 GPa  
E = 88.43 GPa  
n = 0.3278  
P = 130 GPa