

Elastic Properties Measurement Report

Sample and Experiment Information			
Well:	JROC	Organization:	UND/EERC
Depth:	9631.5 ft	Transducer:	
Formation:	DW/B-A Member	Rock type:	Sandy-Carbonate
Dry bulk density:	2.640 g/cm ³	Porosity:	2.24%
Sat. bulk density:		Pore fluids:	
Diameter:	25.40 mm	Entered Length:	42.00 mm

Expt name: Elastic Properties Measurements at Different Confining Pressures

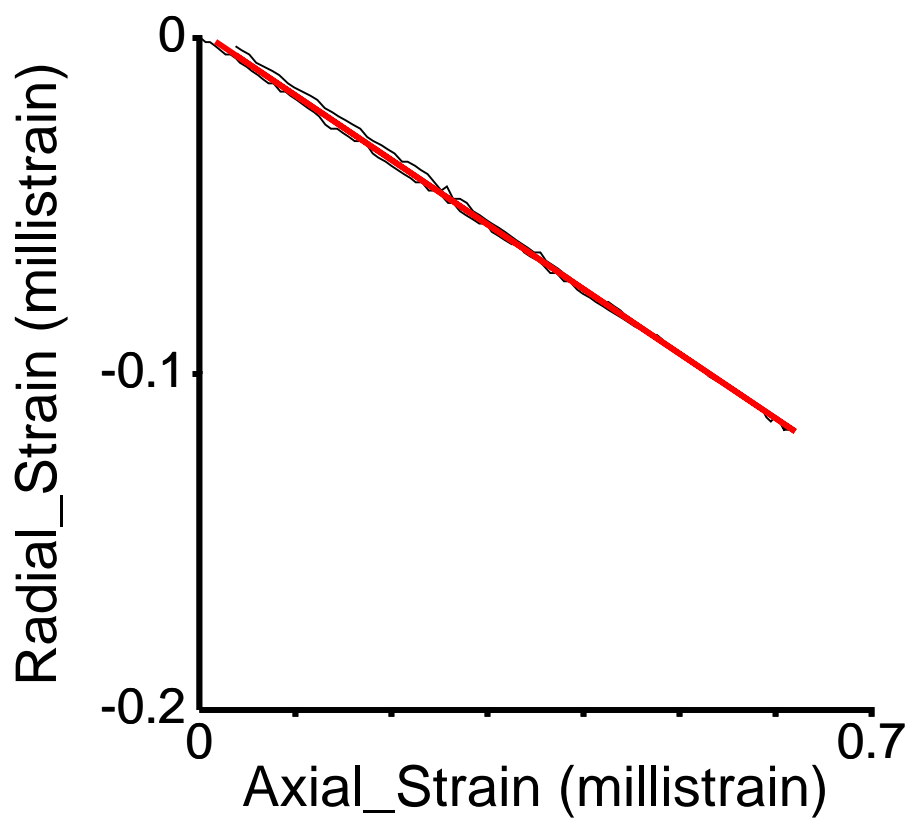
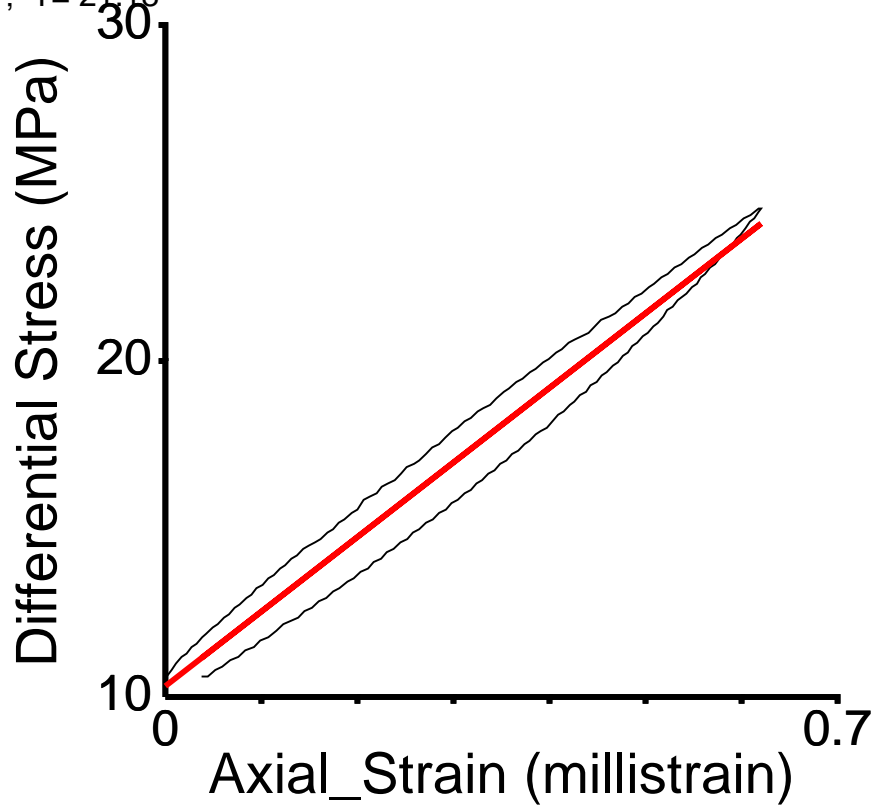
Elastic properties measured at different confining pressures							
Event	Conf	Diff	E	n	K	G	P
	MPa	MPa	GPa		GPa	GPa	GPa
1	10.2	9.9	22.18	0.192	12.01	9.30	24.41
2	20.3	20.0	32.55	0.224	19.63	13.30	37.36
3	30.2	29.8	39.49	0.244	25.76	15.87	46.91
4	40.3	29.8	44.02	0.261	30.64	17.46	53.92

NER

File: DW_130837_S1_StaticProp Entry: 1 Depth: 0 m

1 cycles, Full

Cp= 10.91 ; T= 21.18



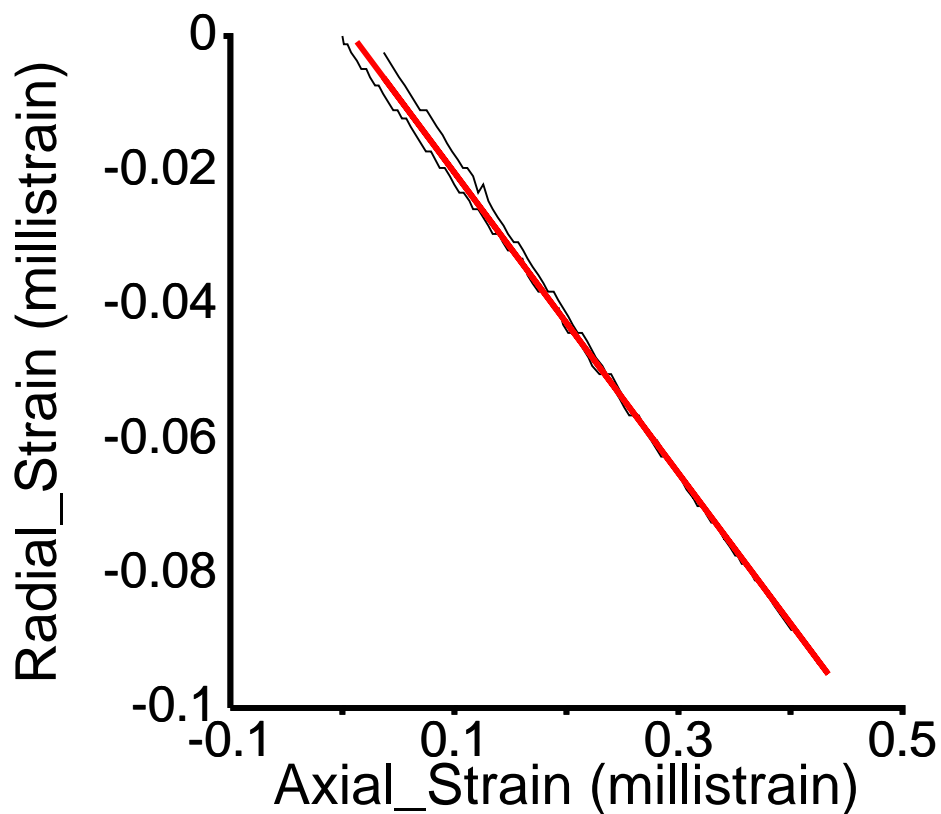
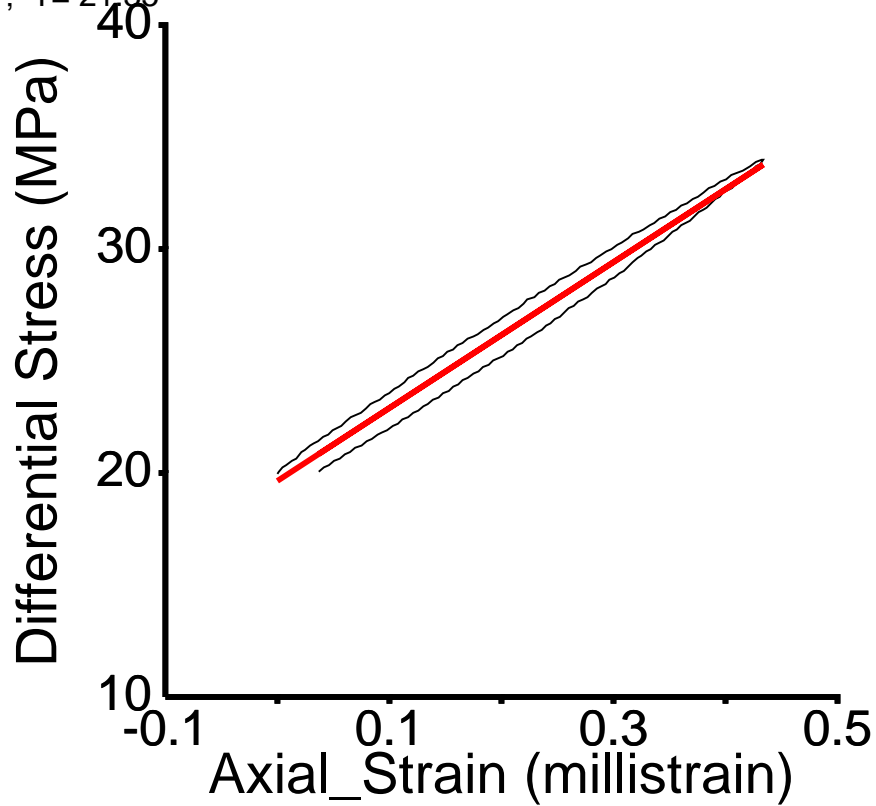
Mode: UStress
K = 12.01 GPa
G = 9.303 GPa
E = 22.18 GPa
n = 0.1922
P = 24.41 GPa

NER

File: DW_130837_S1_StaticProp Entry: 2 Depth: 0 m

1 cycles, Full

Cp= 20.96 ; T= 21.35



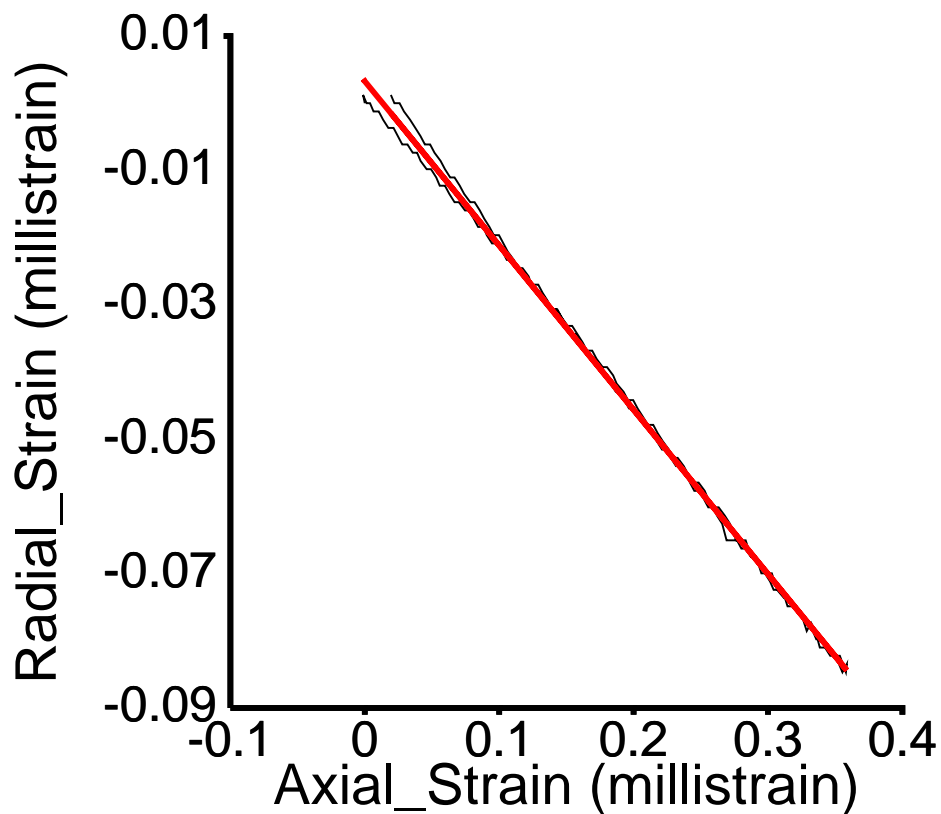
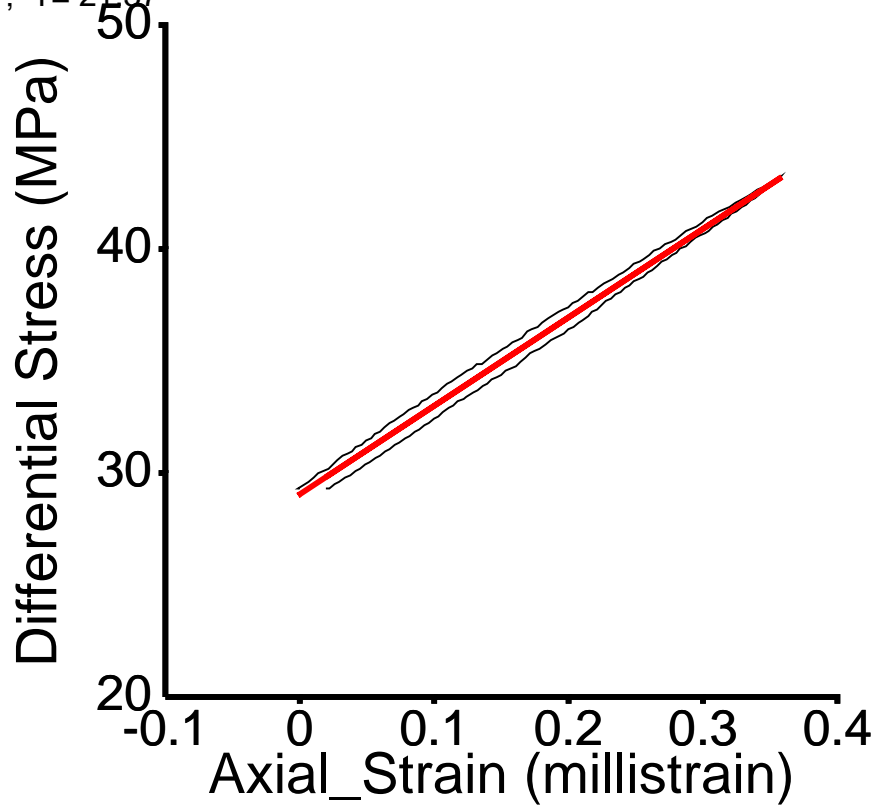
Mode: UStress
K = 19.63 GPa
G = 13.3 GPa
E = 32.55 GPa
n = 0.2236
P = 37.36 GPa

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File: DW_130837_S1_StaticProp Entry: 3 Depth: 0 m

1 cycles, Full

Cp= 30.94 ; T= 21.37



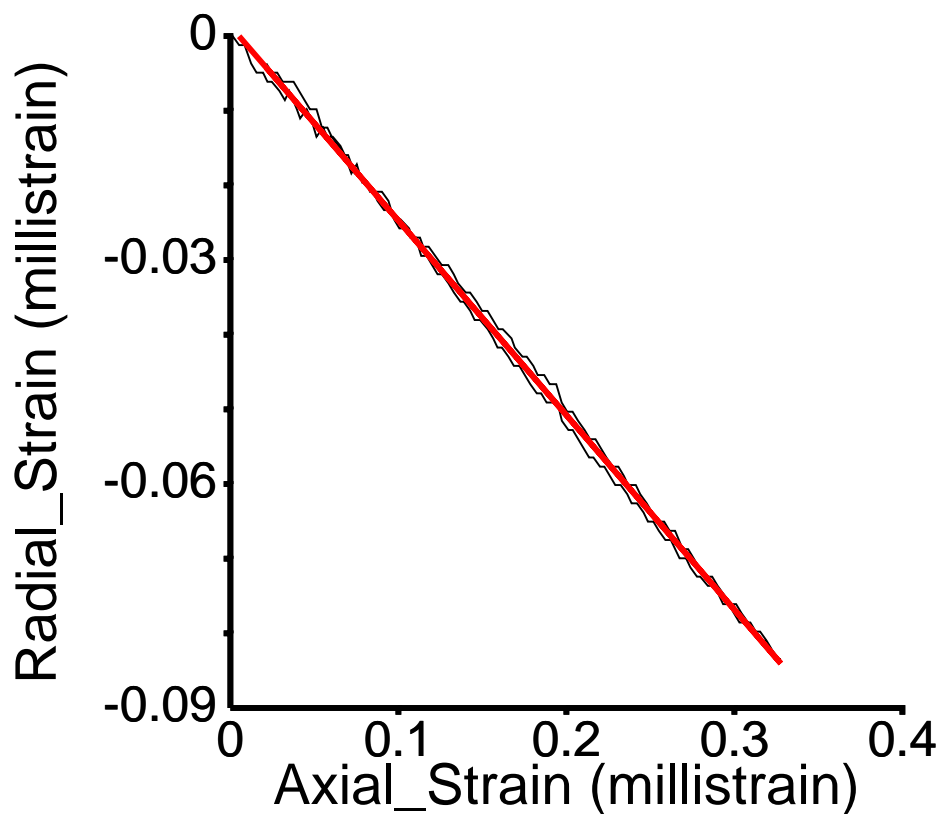
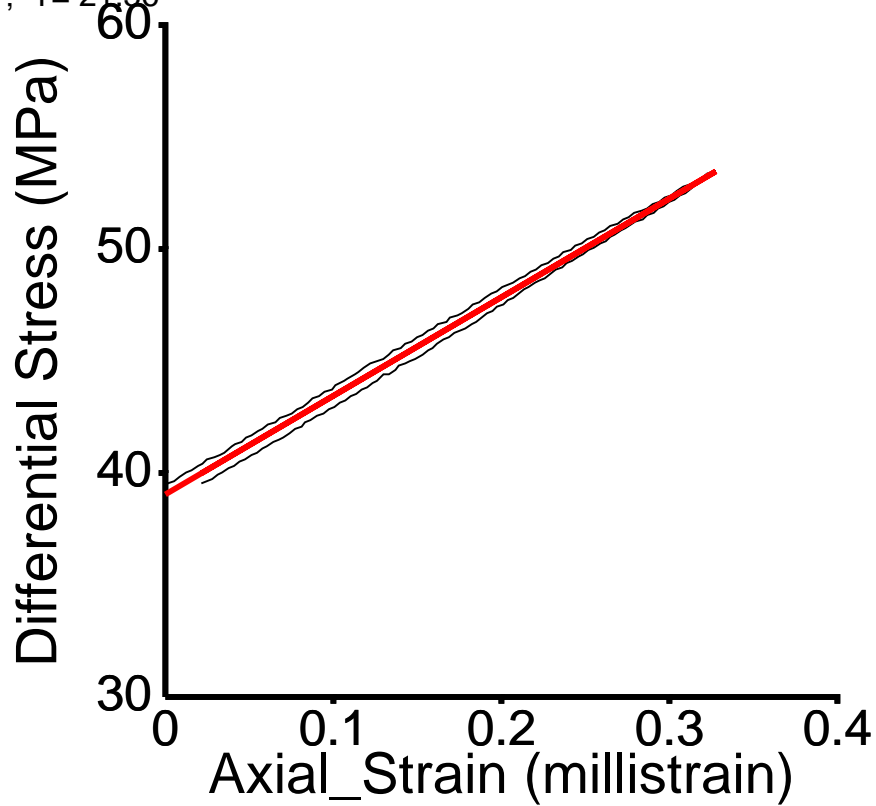
Mode: UStress
K = 25.76 GPa
G = 15.87 GPa
E = 39.49 GPa
 $\nu = 0.2444$
P = 46.91 GPa

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File: DW_130837_S1_StaticProp Entry: 4 Depth: 0 m

1 cycles, Full

Cp= 40.98 ; T= 21.56



Mode: UStress
K = 30.64 GPa
G = 17.46 GPa
E = 44.02 GPa
 $\nu = 0.2606$
P = 53.92 GPa