

Elastic Properties Measurement Report

Sample and Experiment Information			
Well:	JROC	Organization:	UND/EERC
Depth:	4692 ft	Transducer:	
Formation:	Opeche	Rock type:	Sandy-shale with presence of anhydrite
Dry bulk density:	2.605 g/cm ³	Porosity:	5.8%
Sat. bulk density:		Pore fluids:	
Diameter:	25.40 mm	Entered Length:	53.00 mm

Expt name: Elastic Properties Measurements at Different Confining Pressures

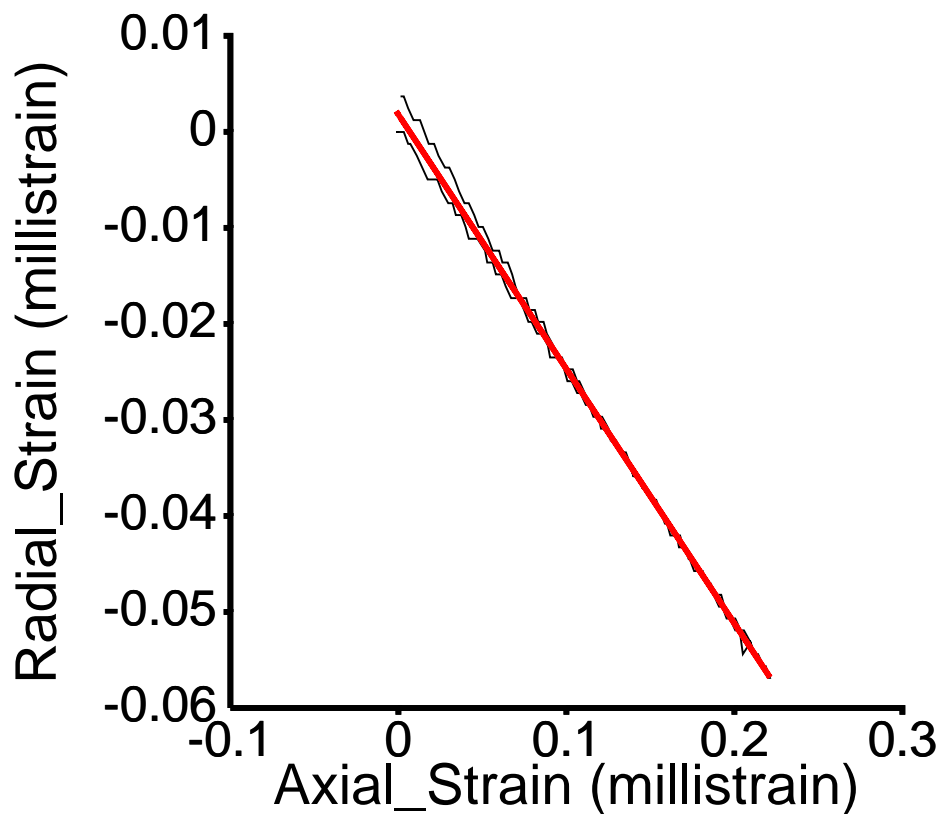
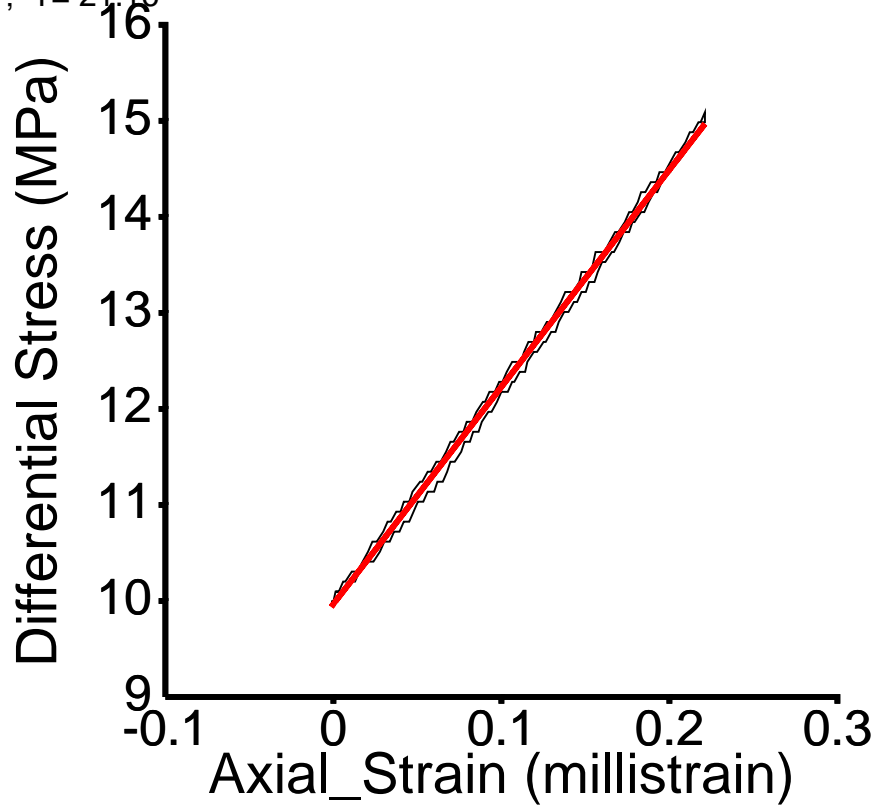
Elastic properties measured at different confining pressures							
Event	Conf	Diff	E	n	K	G	P
	MPa	MPa	GPa		GPa	GPa	GPa
1	10.2	9.9	20.56	0.273	15.06	8.08	25.83
2	20.3	20.0	30.29	0.218	17.89	12.44	34.47
3	30.2	29.8	35.51	0.199	19.69	14.81	39.43
4	40.3	29.8	38.74	0.209	22.19	16.02	43.55

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File: Opeche_130614_S1_StaticProp Entry: 1 Depth: 1430.1216 m

1 cycles, Full

Cp= 10.26 ; T= 21.16



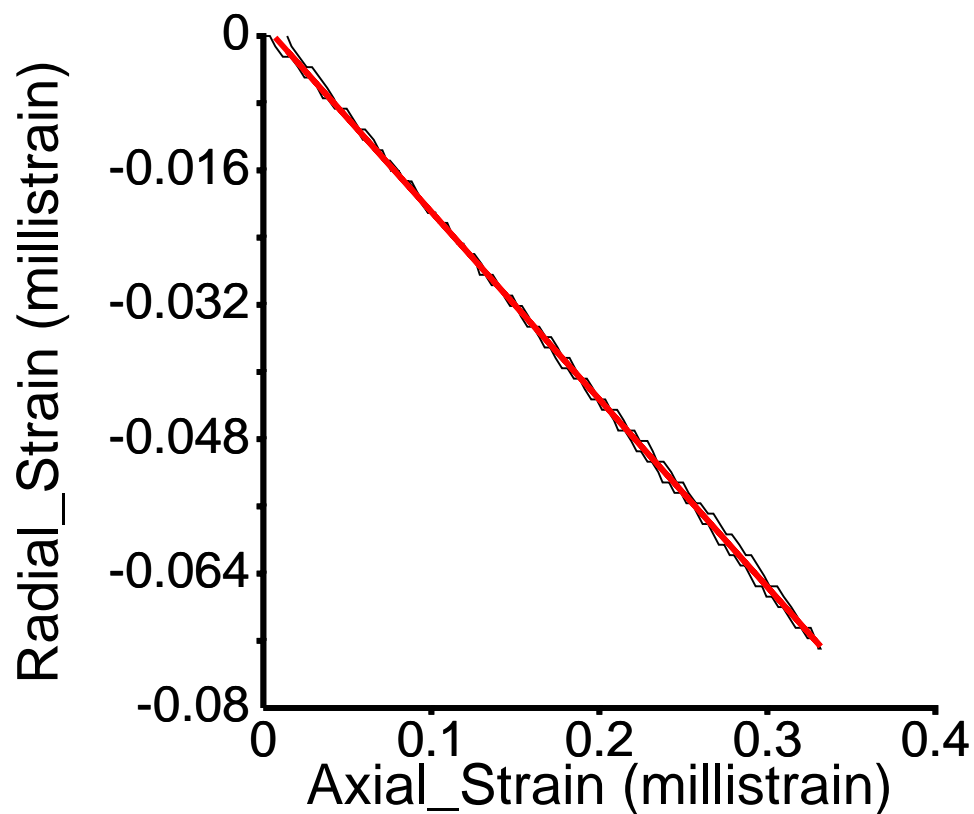
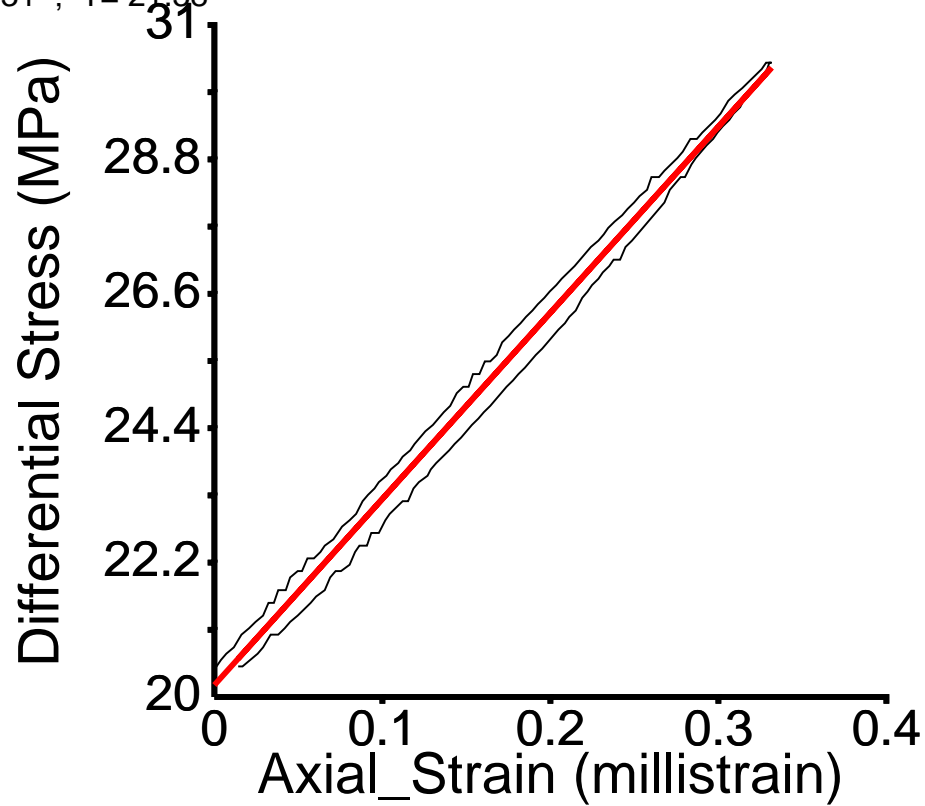
Mode: UStress
K = 16.04 GPa
G = 8.938 GPa
E = 22.62 GPa
 $\nu = 0.2651$
P = 27.96 GPa

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File: Opeche_130614_S1_StaticProp Entry: 2 Depth: 1430.1216 m

1 cycles, Full

Cp= 20.31 ; T= 21.38



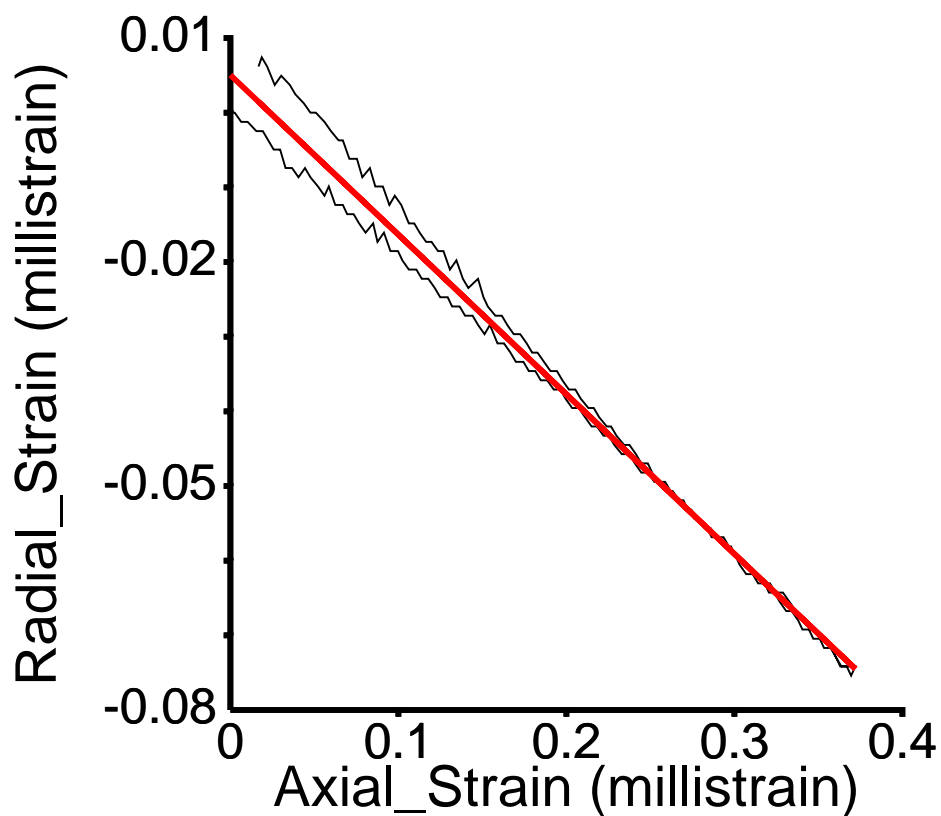
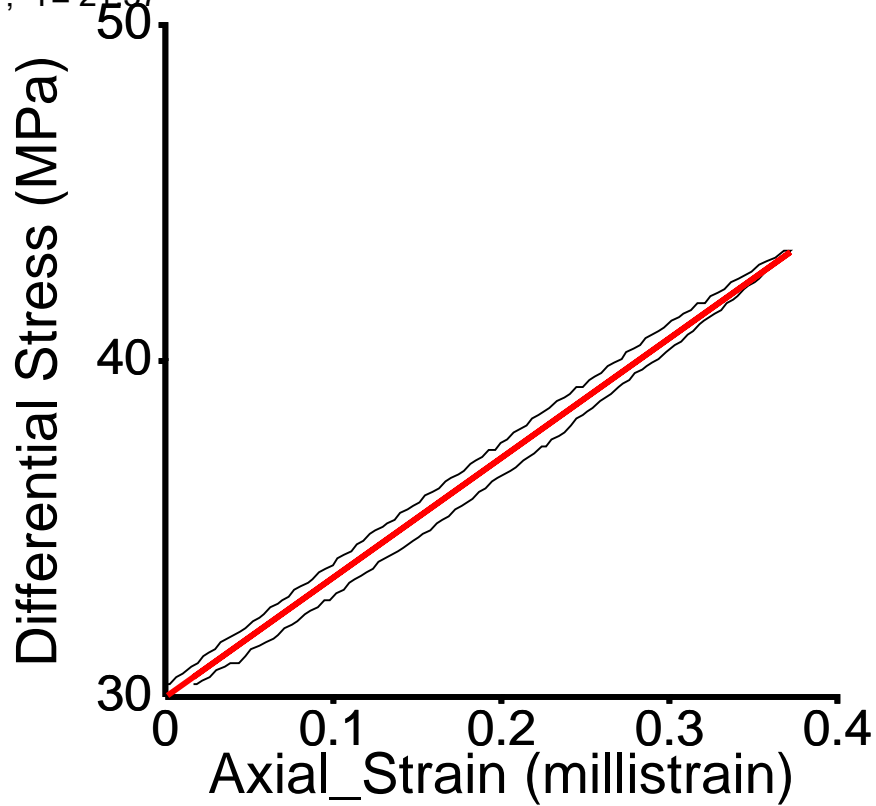
Mode: UStress
K = 18.35 GPa
G = 12.45 GPa
E = 30.47 GPa
 $\nu = 0.2233$
P = 34.96 GPa

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File: Opeche_130614_S1_StaticProp Entry: 3 Depth: 1430.1216 m

1 cycles, Full

Cp= 30.28 ; T= 21.57



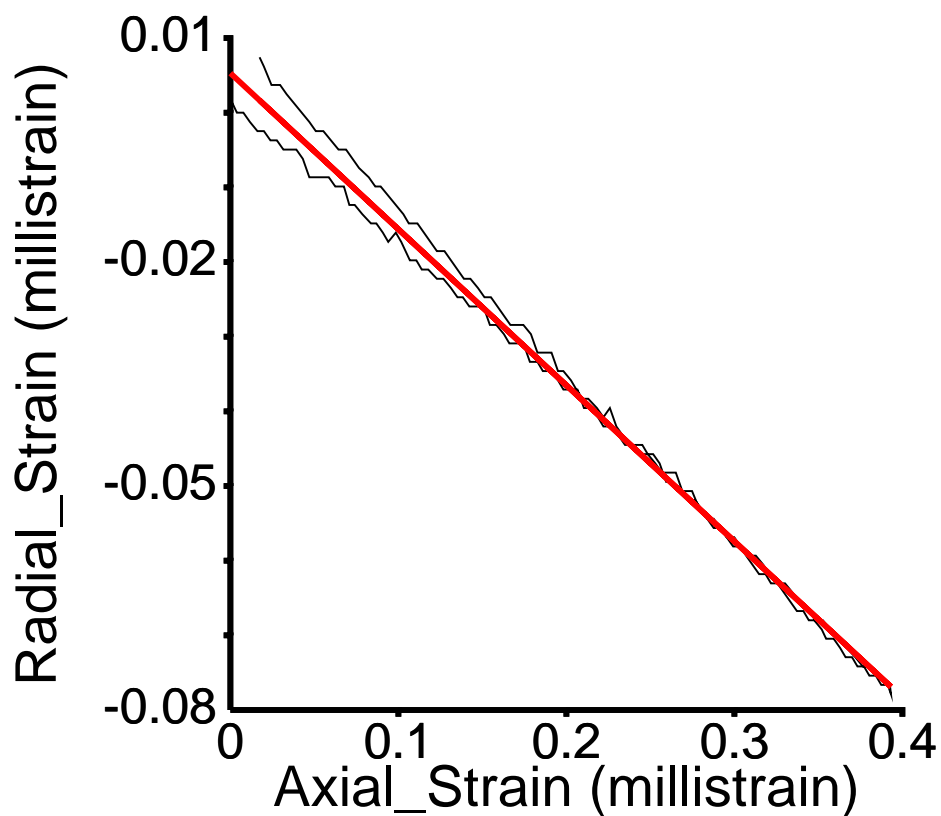
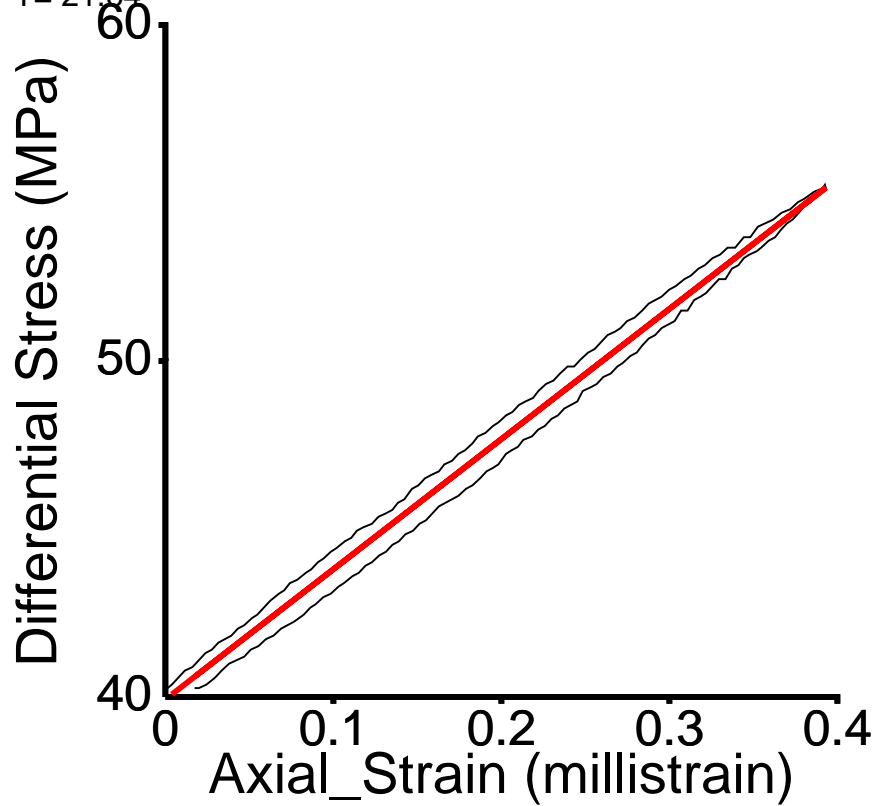
Mode: UStress
K = 20.73 GPa
G = 14.66 GPa
E = 35.59 GPa
n = 0.2138
P = 40.28 GPa

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File: Opeche_130614_S1_StaticProp Entry: 4 Depth: 1430.1216 m

1 cycles, Full

Cp= 40.3 ; T= 21.64



Mode: UStress
K = 22.19 GPa
G = 16.02 GPa
E = 38.74 GPa
n = 0.209
P = 43.55 GPa