

Elastic Properties Measurement Report

Sample and Experiment Information			
Well:	JROC	Organization:	UND/EERC
Depth:	4731 ft	Transducer:	
Formation:	Opeche	Rock type:	Shaly-sandstone
Dry bulk density:	2.380 g/cm ³	Porosity:	12.28%
Sat. bulk density:		Pore fluids:	
Diameter:	25.40 mm	Entered Length:	54.20 mm

Expt name: Elastic Properties Measurements at Different Confining Pressures

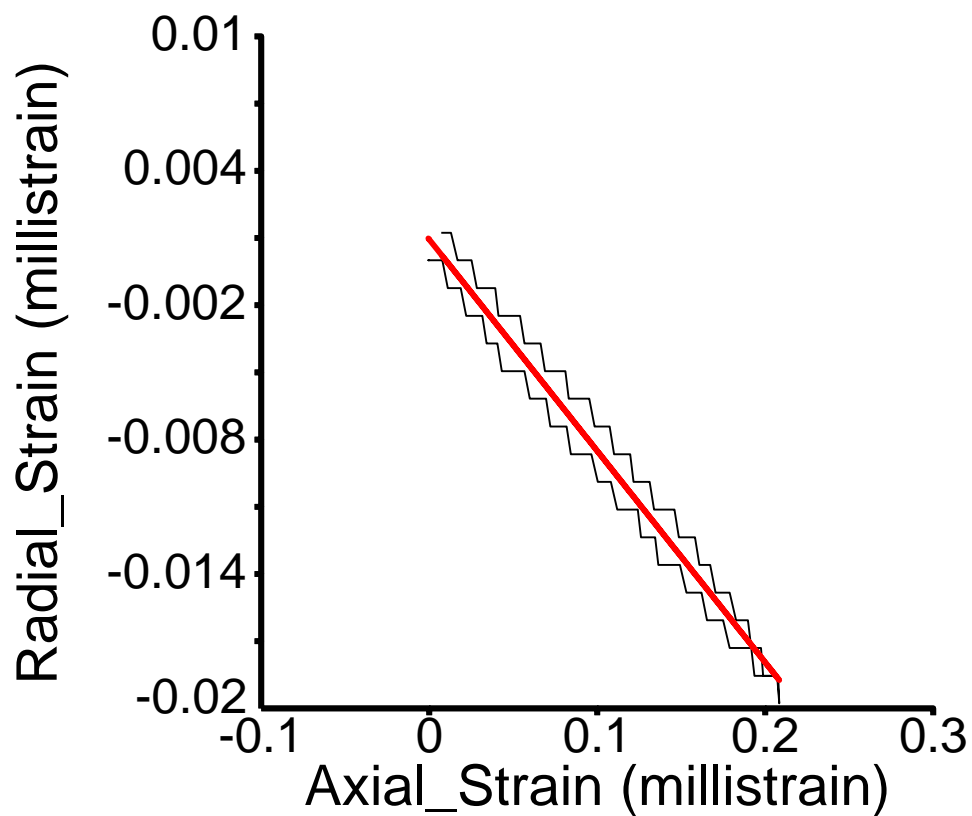
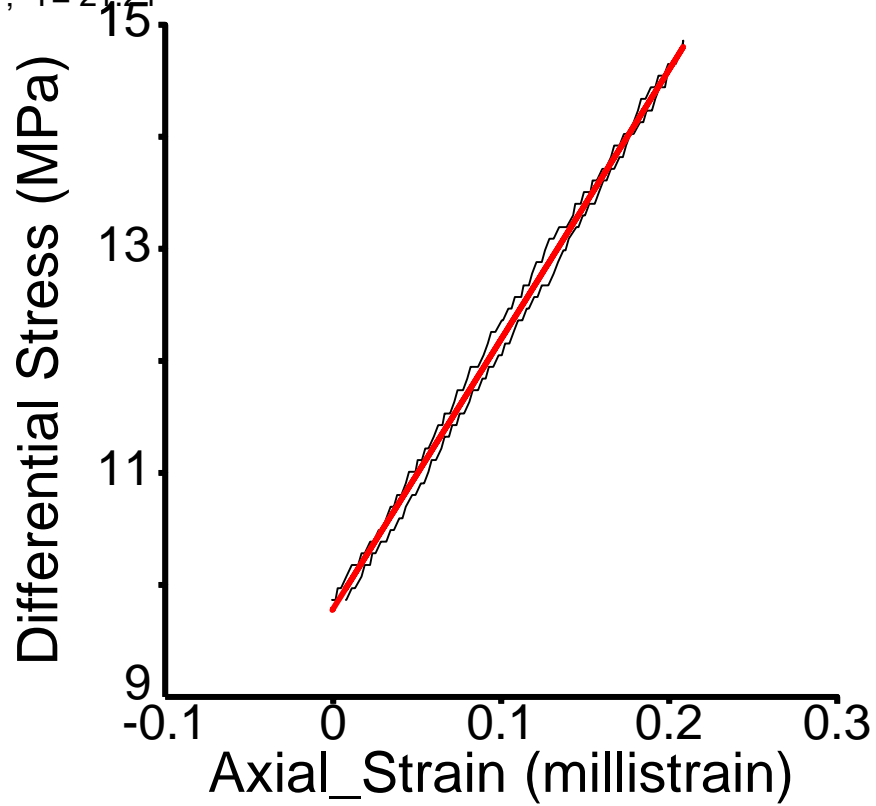
Elastic properties measured at different confining pressures							
Event	Conf	Diff	E	n	K	G	P
	MPa	MPa	GPa		GPa	GPa	GPa
1	10.2	9.9	24.07	0.094	9.89	11.00	24.55
2	20.3	20.0	25.12	0.110	10.75	11.31	25.83
3	30.2	29.8	27.14	0.145	12.76	11.85	28.56
4	40.3	29.8	31.69	0.167	15.84	13.58	33.95

NER

File: Opeche_130618_S1_StaticProp Entry: 0 Depth: 1442.0088 m

1 cycles, Full

Cp= 10.36 ; T= 21.21



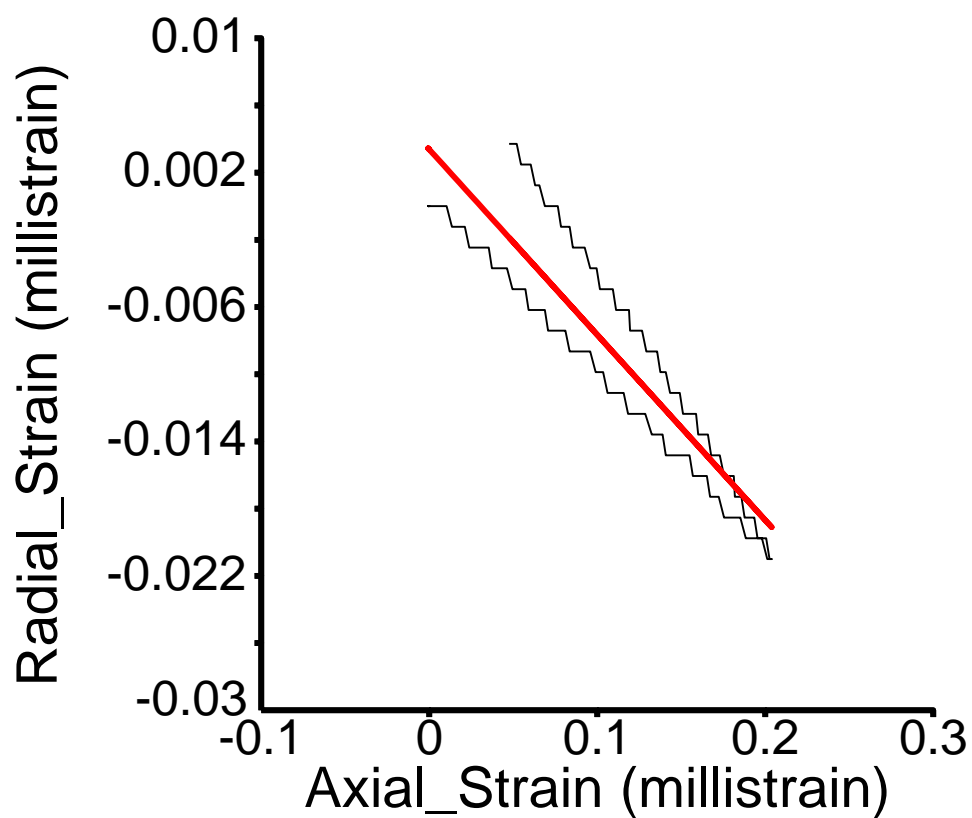
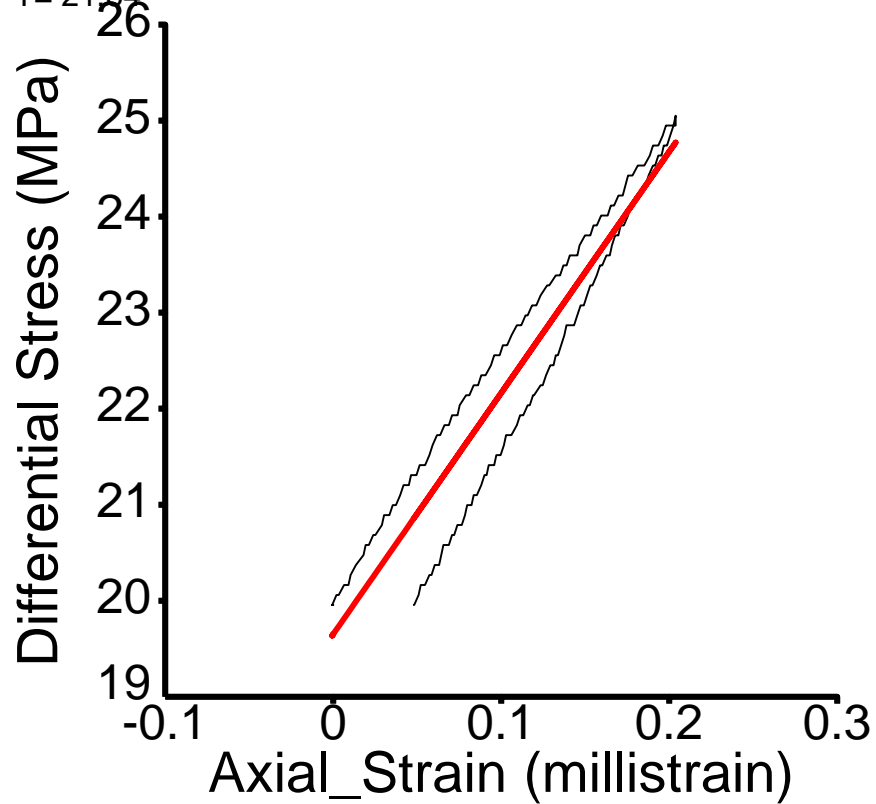
Mode: UStress
K = 9.89 GPa
G = 11 GPa
E = 24.07 GPa
n = 0.09441
P = 24.55 GPa

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File: Opeche_130618_S1_StaticProp Entry: 1 Depth: 1442.0088 m

1 cycles, Full

Cp= 20.4 ; T= 21.64



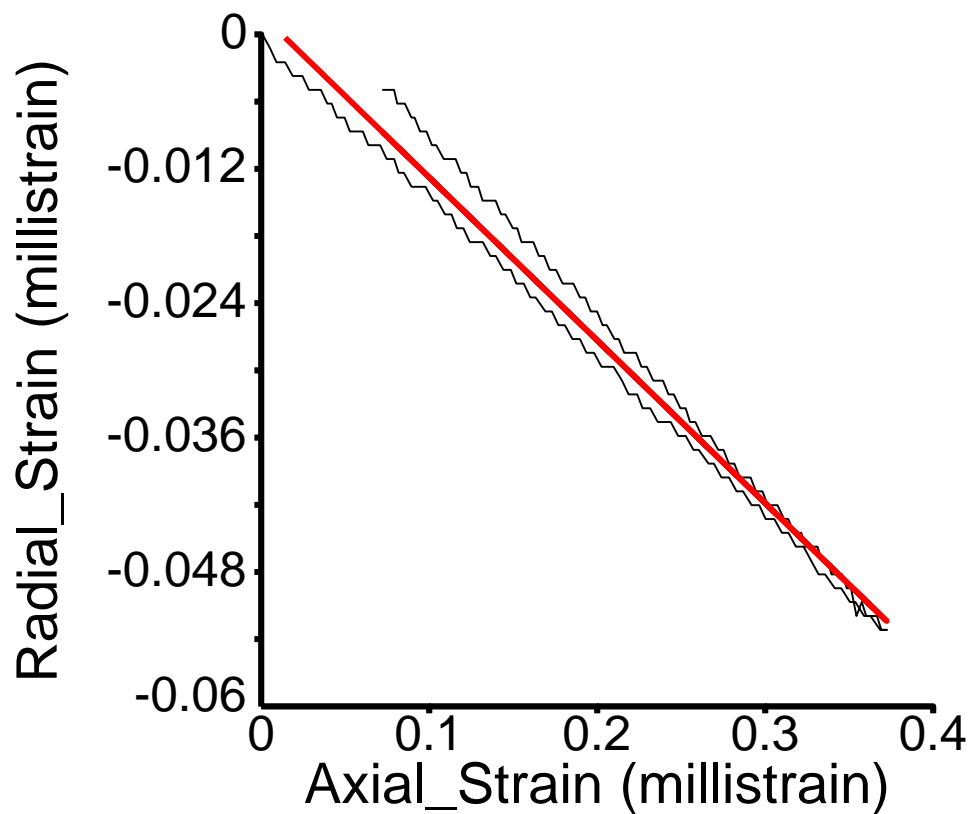
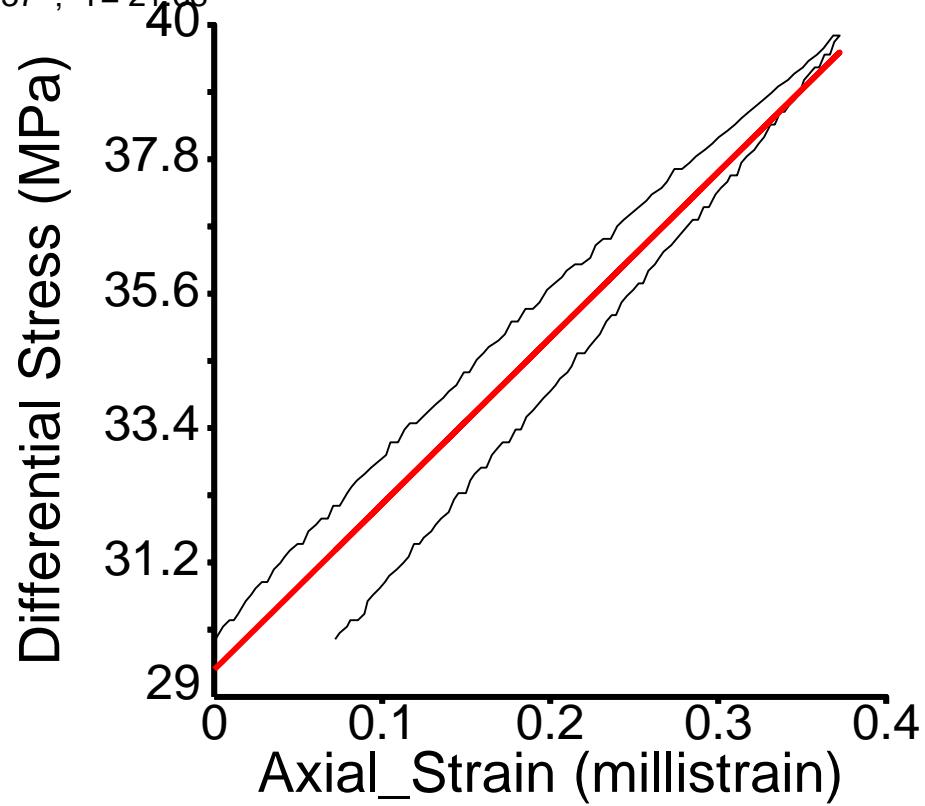
Mode: UStress
K = 10.75 GPa
G = 11.31 GPa
E = 25.12 GPa
n = 0.1103
P = 25.83 GPa

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File: Opeche_130618_S1_StaticProp Entry: 3 Depth: 1442.0088 m

1 cycles, Full

Cp= 30.37 ; T= 21.68



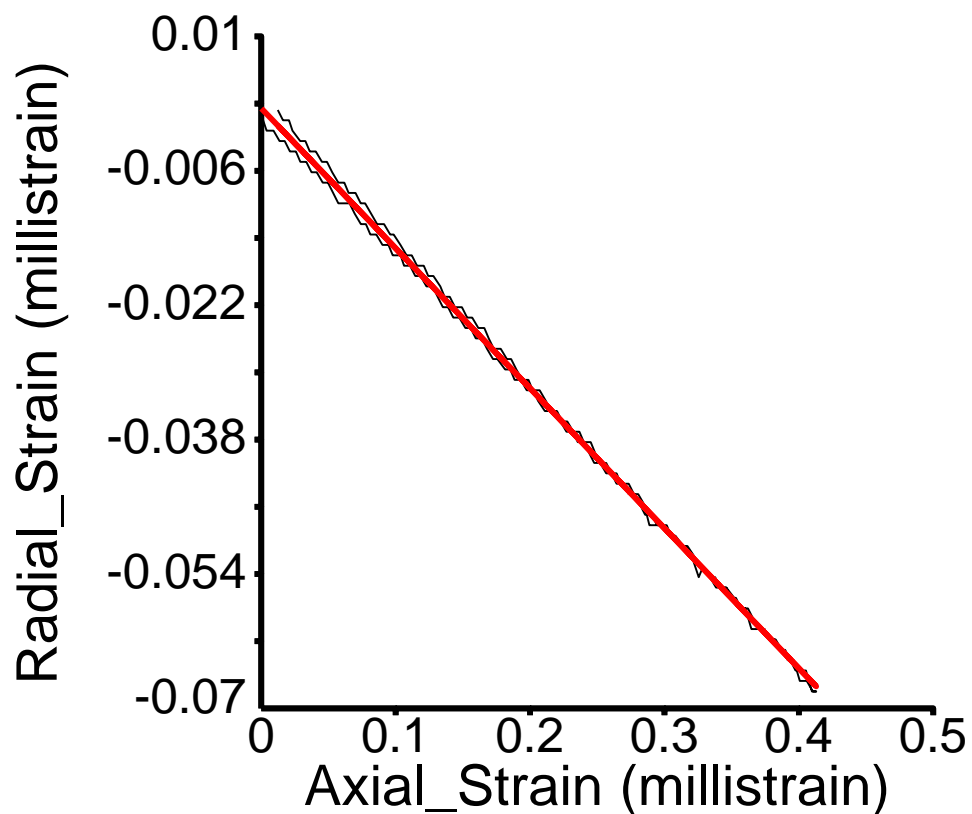
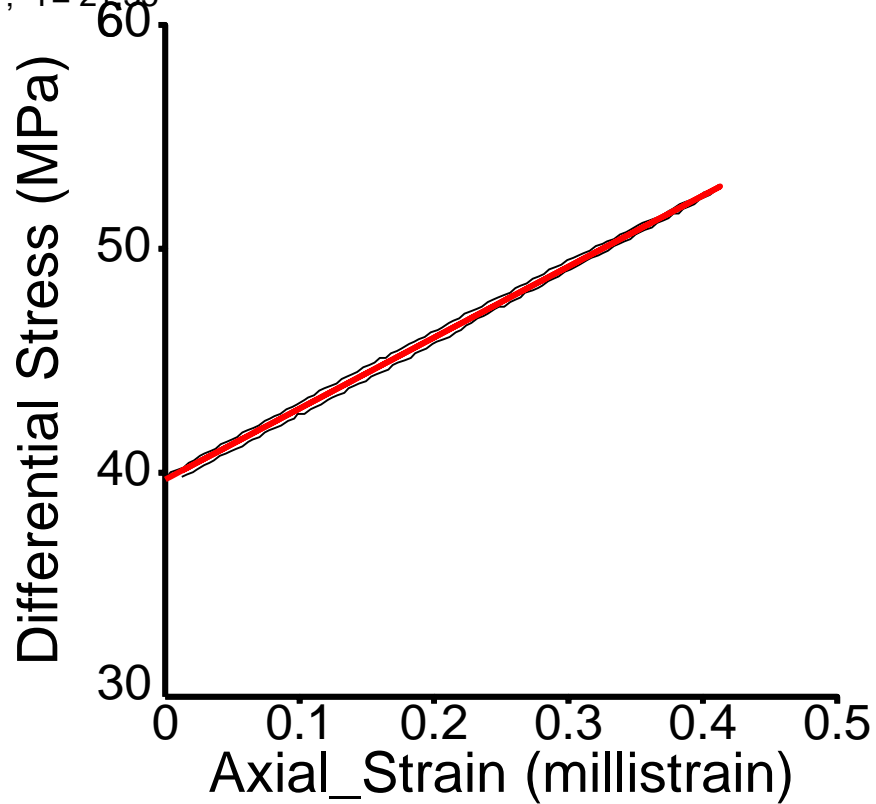
Mode: UStress
K = 12.76 GPa
G = 11.85 GPa
E = 27.14 GPa
n = 0.1455
P = 28.56 GPa

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File: Opeche_130618_S1_StaticProp Entry: 5 Depth: 1442.0088 m

1 cycles, Full

Cp= 40.39 ; T= 21.55



Mode: UStress
K = 15.84 GPa
G = 13.58 GPa
E = 31.69 GPa
n = 0.1667
P = 33.95 GPa