

Elastic Properties Measurement Report

Sample and Experiment Information			
Well:	JROC	Organization:	UND/EERC
Depth:	4714 ft	Transducer:	
Formation:	Opeche	Rock type:	Interbedded sandstone & shaly-sandstone
Dry bulk density:	2.330 g/cm ³	Porosity:	13.62%
at. bulk density:		Pore fluids:	
Diameter:	25.40 mm	Entered Length:	59.30 mm

Expt name: Elastic Properties Measurements at Different Confining Pressures

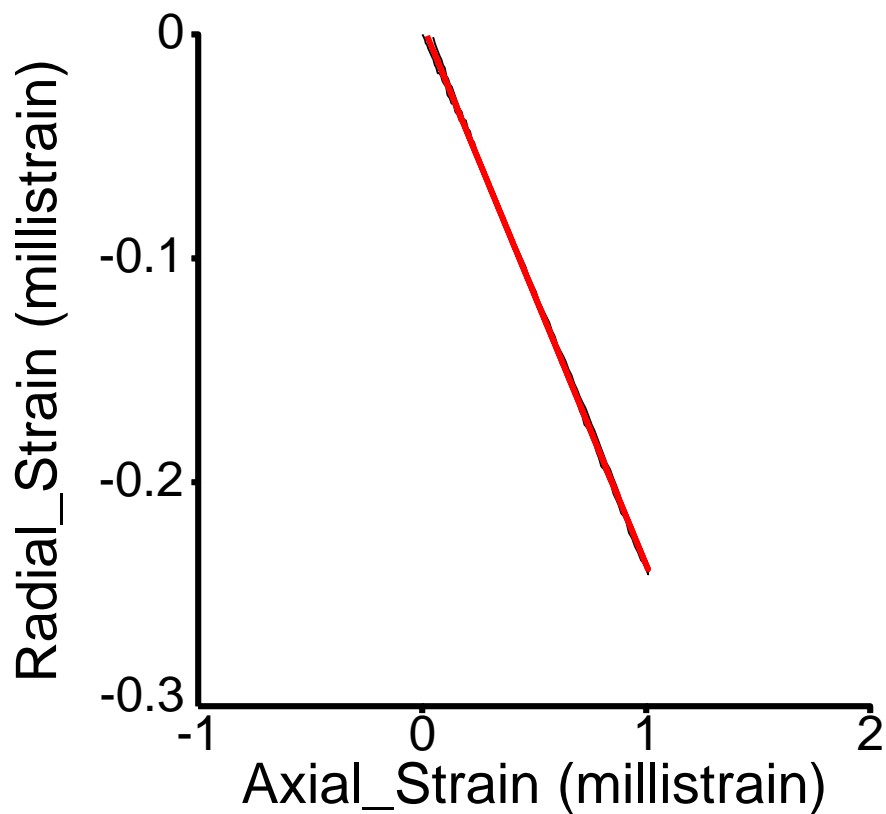
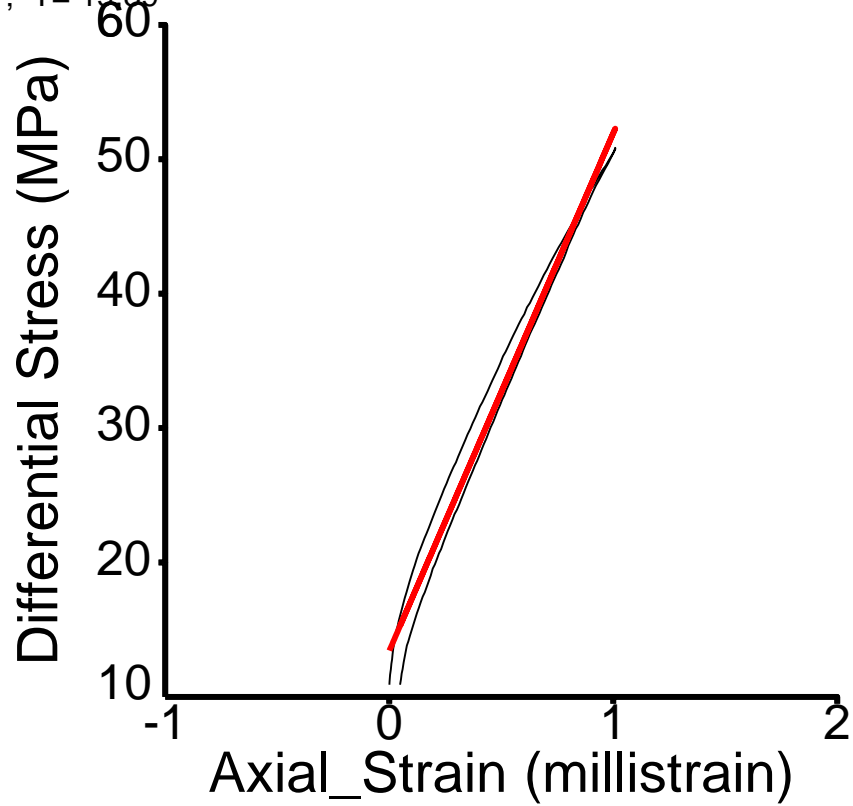
Elastic properties measured at different confining pressures							
Event	Conf	Diff	E	n	K	G	P
	MPa	MPa	GPa		GPa	GPa	GPa
1	10.2	9.9	38.53	0.242	24.84	15.52	45.53
2	20.3	20.0	39.73	0.234	24.90	16.10	46.36
3	30.2	29.8	40.22	0.233	25.14	16.31	46.88
4	40.3	29.8	34.68	0.225	21.06	14.15	39.93

NER

File: Opeche_130616_S1_SaticProp2 Entry: 1 Depth: 1436.8272 m

1 cycles, Full

Cp= 10.27 ; T= 19.89



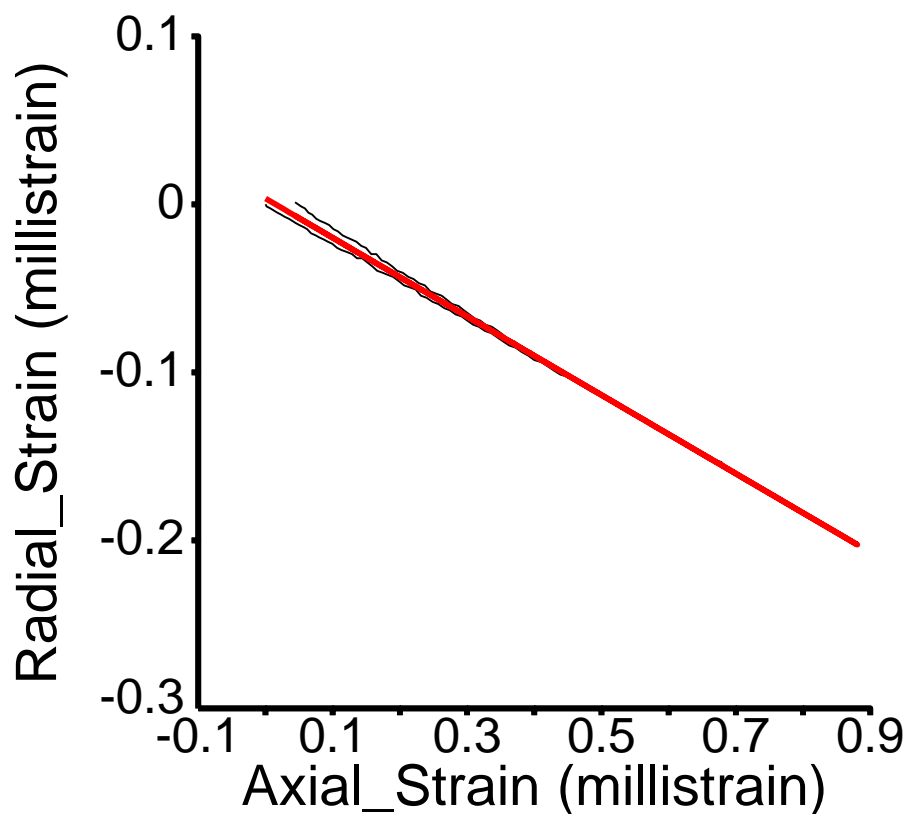
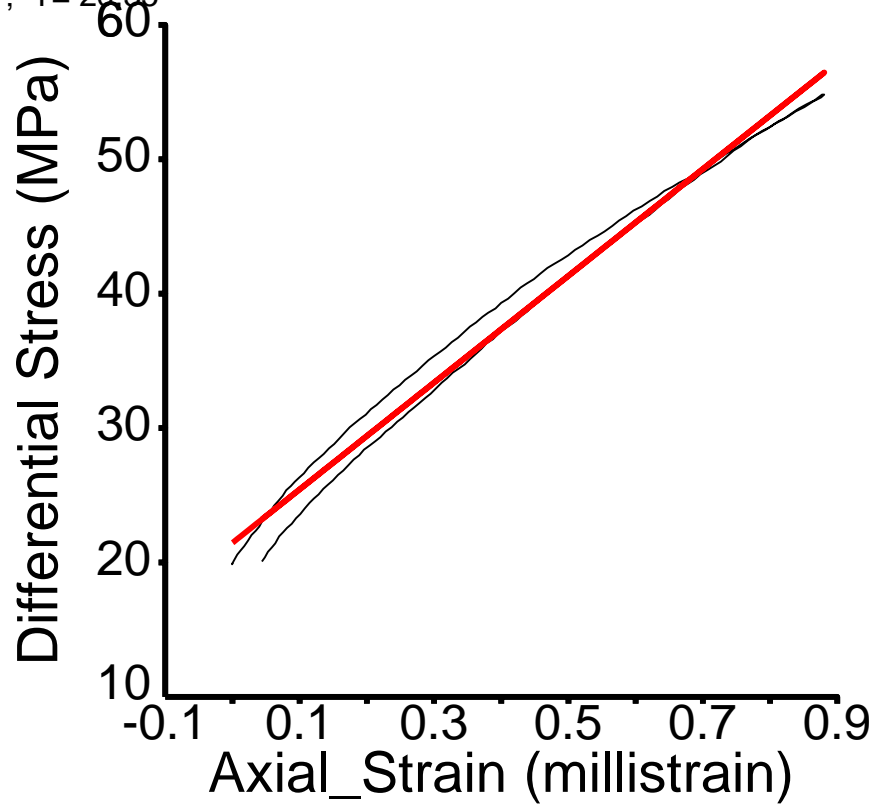
Mode: UStress
K = 24.84 GPa
G = 15.52 GPa
E = 38.53 GPa
n = 0.2415
P = 45.53 GPa

NER

File: Opeche_130616_S1_SaticProp2 Entry: 4 Depth: 1436.8272 m

1 cycles, Full

Cp= 20.33 ; T= 20.35



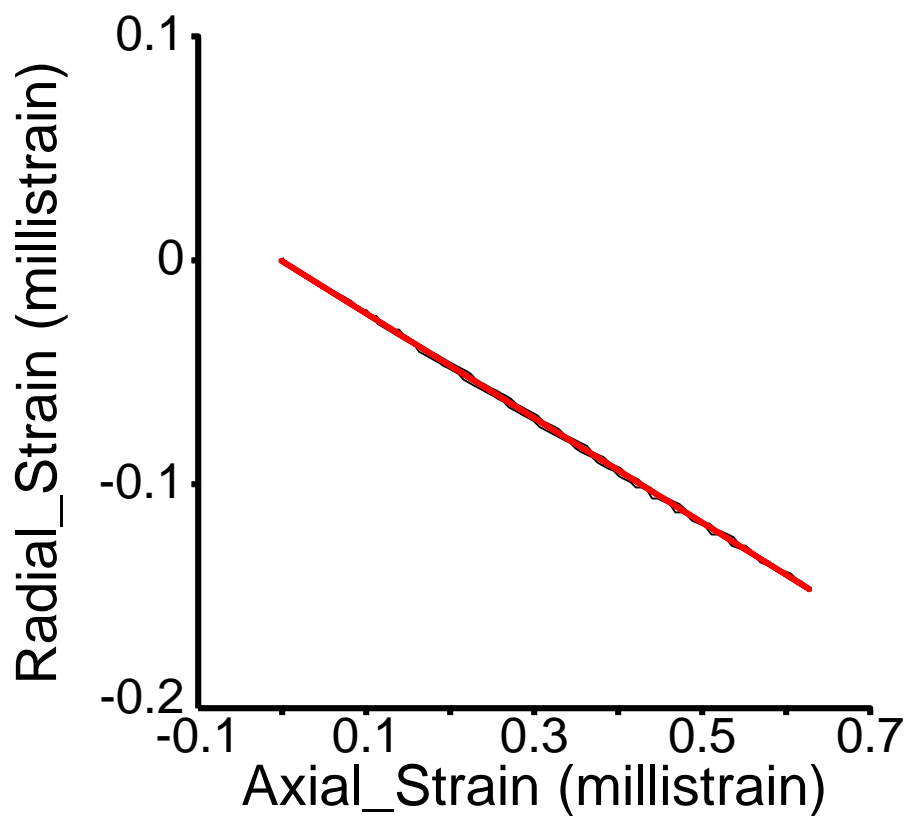
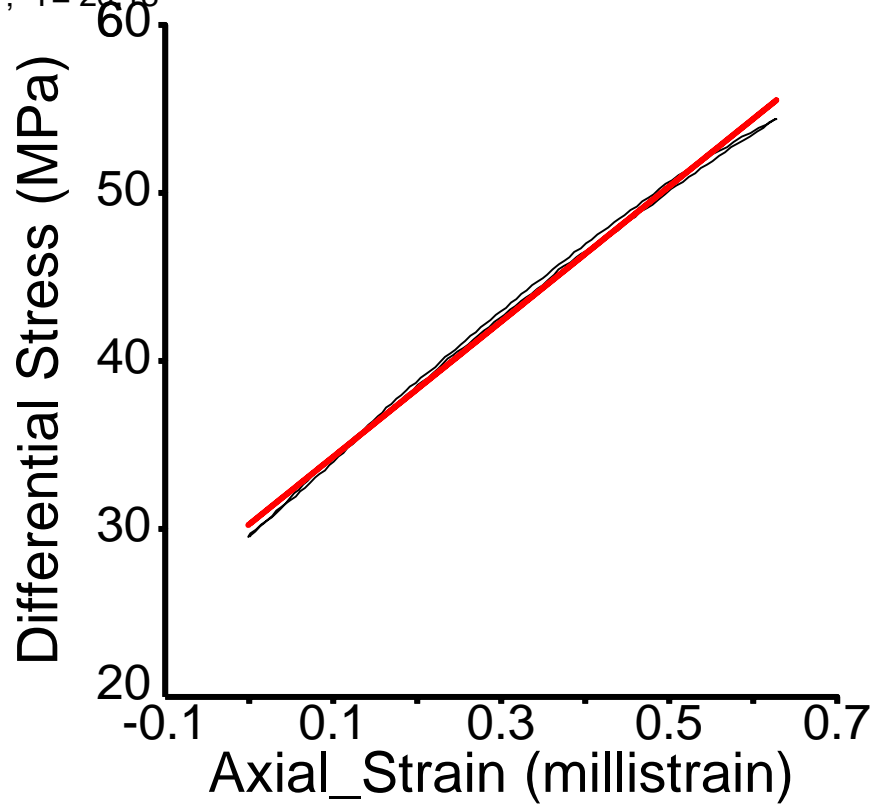
Mode: UStress
K = 24.9 GPa
G = 16.1 GPa
E = 39.73 GPa
n = 0.234
P = 46.36 GPa

NER

File: Opeche_130616_S1_SaticProp2 Entry: 8 Depth: 1436.8272 m

1 cycles, Full

Cp= 30.31 ; T= 20.18



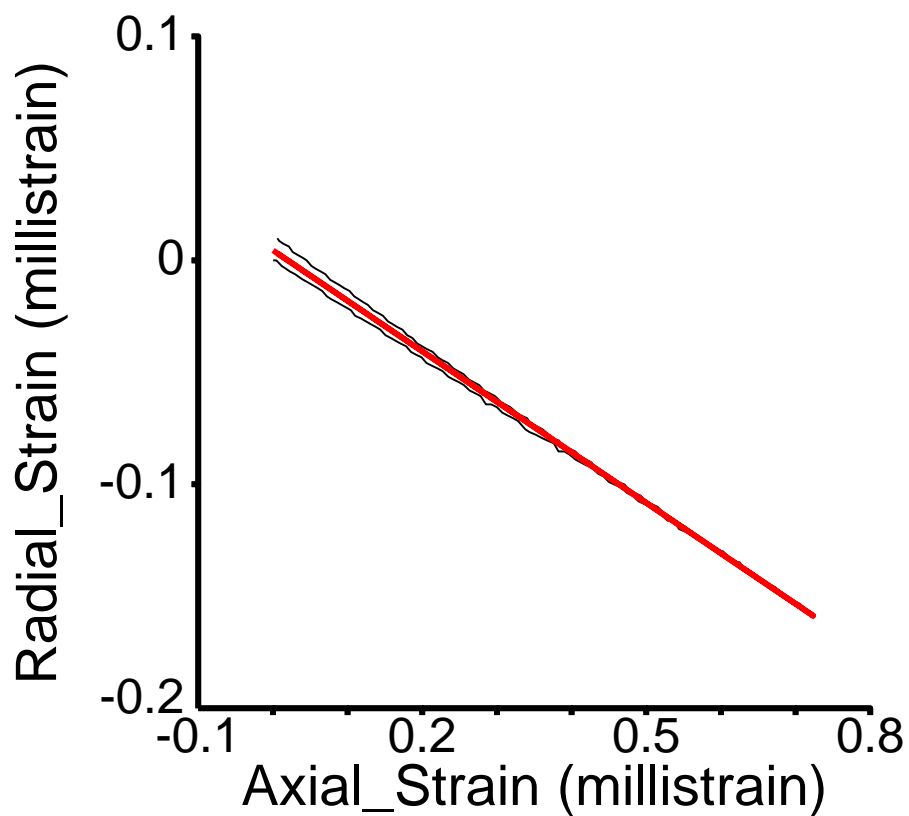
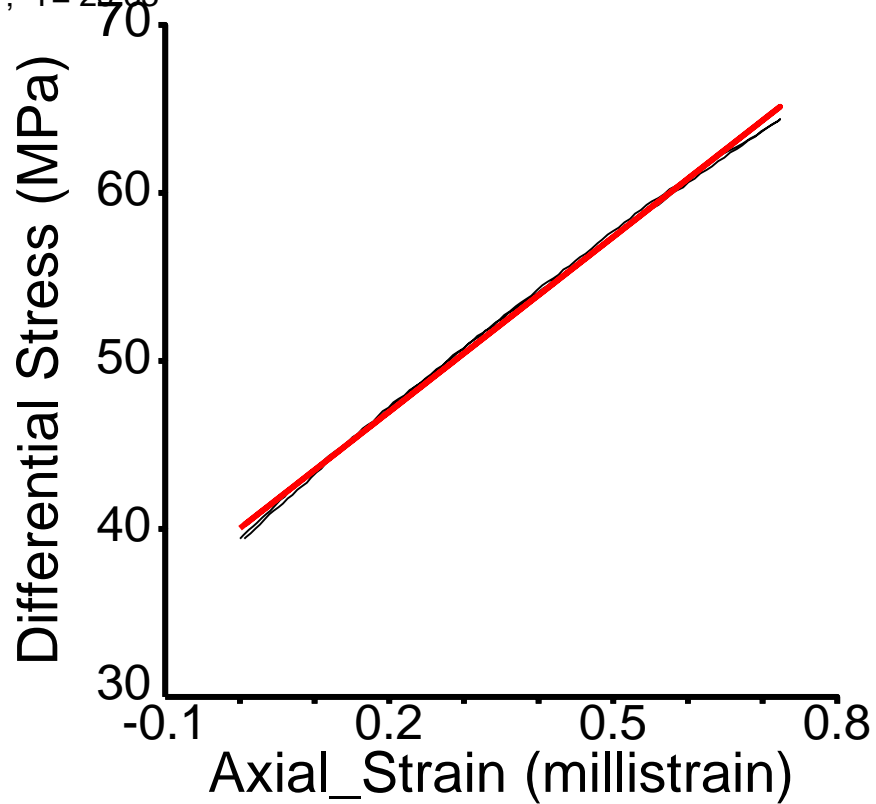
Mode: UStress
K = 25.14 GPa
G = 16.31 GPa
E = 40.22 GPa
 $n = 0.2333$
P = 46.88 GPa

NER

File: Opeche_130616_S1_SaticProp2 Entry: 9 Depth: 1436.8272 m

1 cycles, Full

Cp= 40.36 ; T= 20.63



Mode: UStress
K = 21.06 GPa
G = 14.15 GPa
E = 34.68 GPa
 $n = 0.2255$
P = 39.93 GPa

