

## Elastic Properties Measurement Report

Sample and Experiment Information			
Well:	JROC	Organization:	UND/EERC
Depth:	4740 ft	Transducer:	
Formation:	Broom Creek	Rock type:	Dolostone with presence of anhydrite
Dry bulk density:	2.560 g/cm <sup>3</sup>	Porosity:	9.57%
Sat. bulk density:		Pore fluids:	
Diameter:	25.40 mm	Entered Length:	62.25 mm

Expt name: Elastic Properties Measurements at Different Confining Pressures

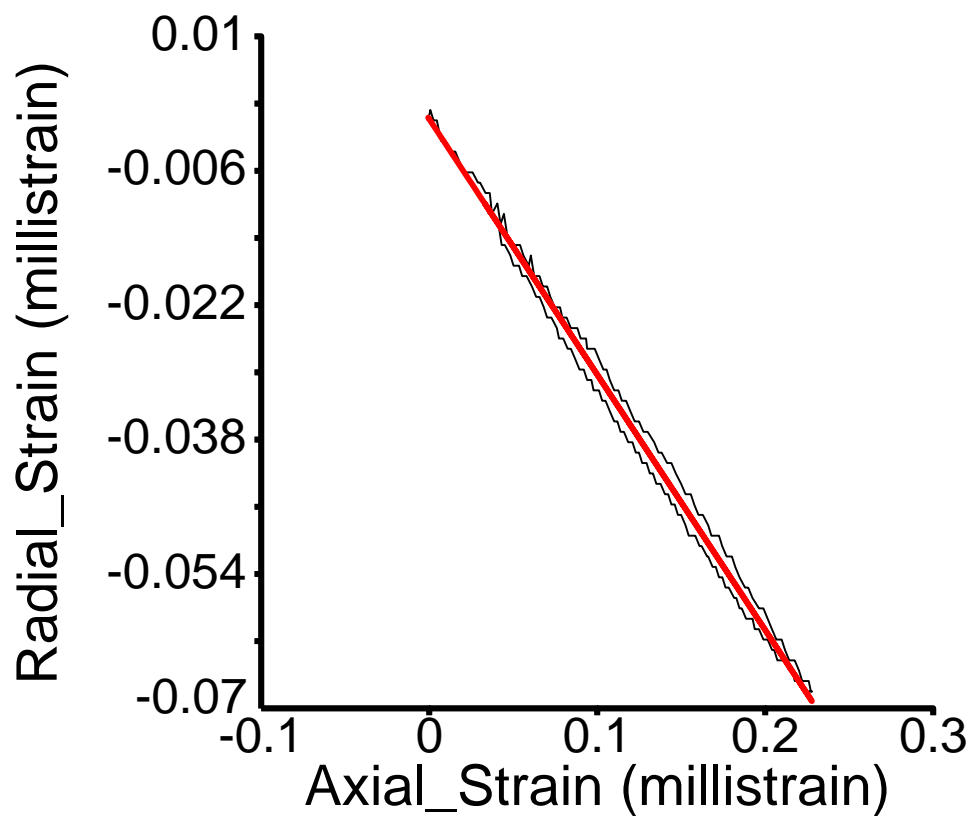
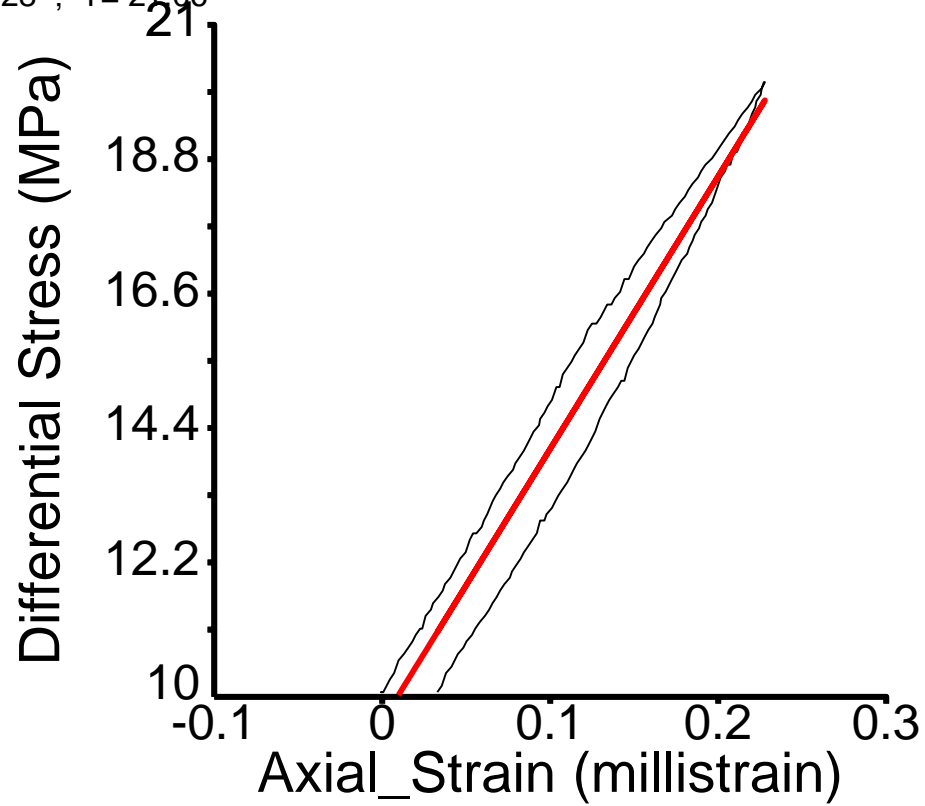
Elastic properties measured at different confining pressures							
Event	Conf	Diff	E	n	K	G	P
	MPa	MPa	GPa		GPa	GPa	GPa
1	10.2	9.9	44.63	0.304	37.98	17.11	60.80
2	20.3	20.0	54.51	0.252	36.69	21.76	65.70
3	30.2	29.8	65.15	0.243	42.31	26.20	77.24
4	40.3	29.8	73.94	0.223	44.42	30.24	84.74

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File: BC\_130620\_S1\_StaticProp Entry: 2 Depth: 1444.752 m

1 cycles, Full

Cp= 10.28 ; T= 21.06



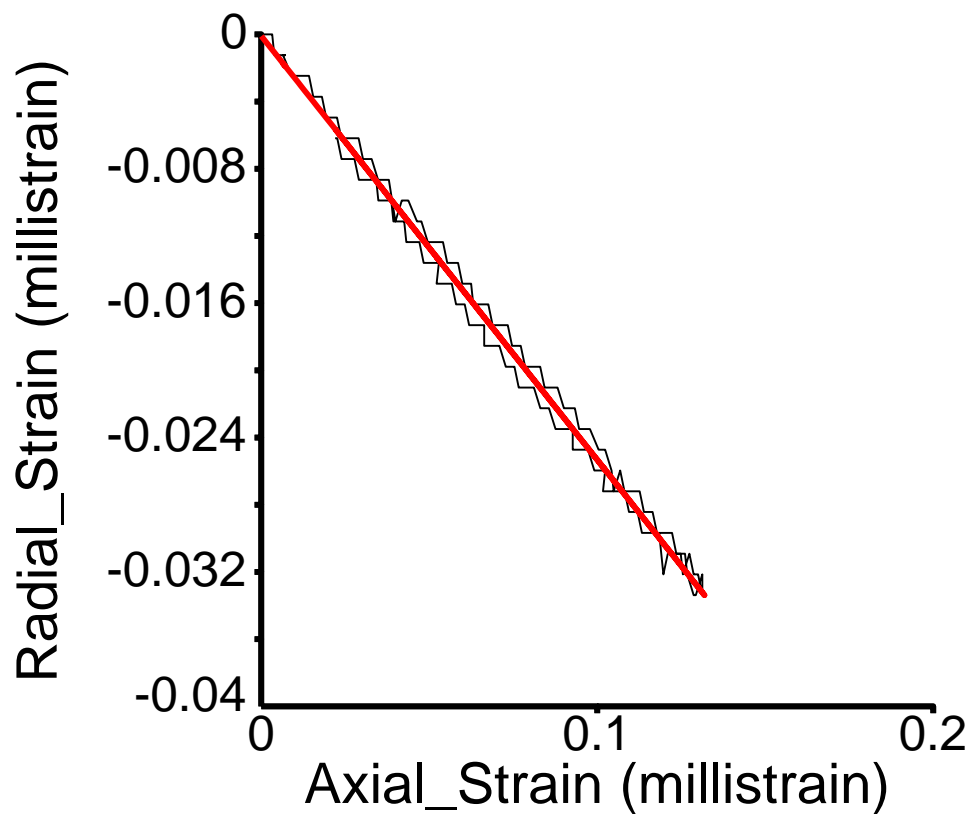
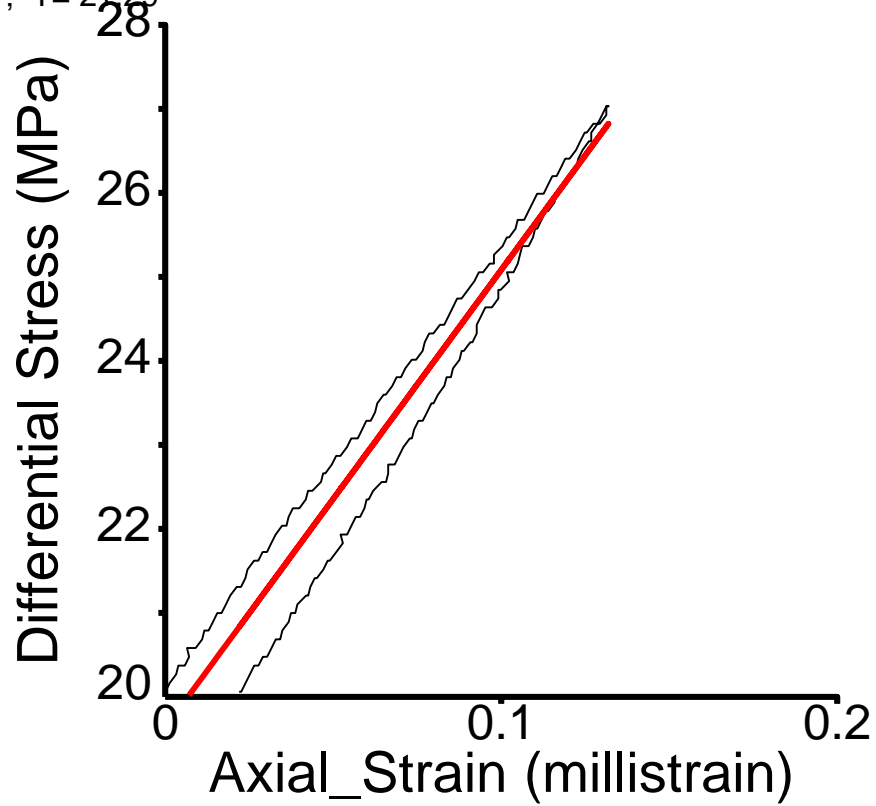
Mode: UStress  
K = 37.98 GPa  
G = 17.11 GPa  
E = 44.63 GPa  
n = 0.3042  
P = 60.8 GPa

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File: BC\_130620\_S1\_StaticProp Entry: 3 Depth: 1444.752 m

1 cycles, Full

Cp= 20.32 ; T= 21.29



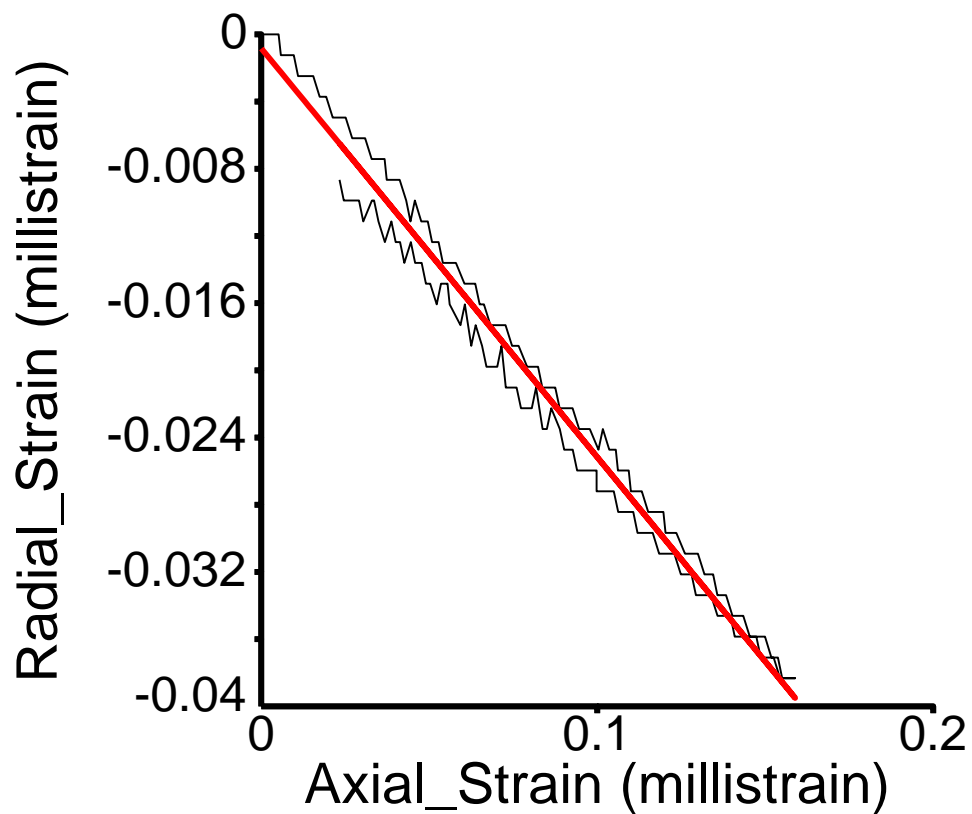
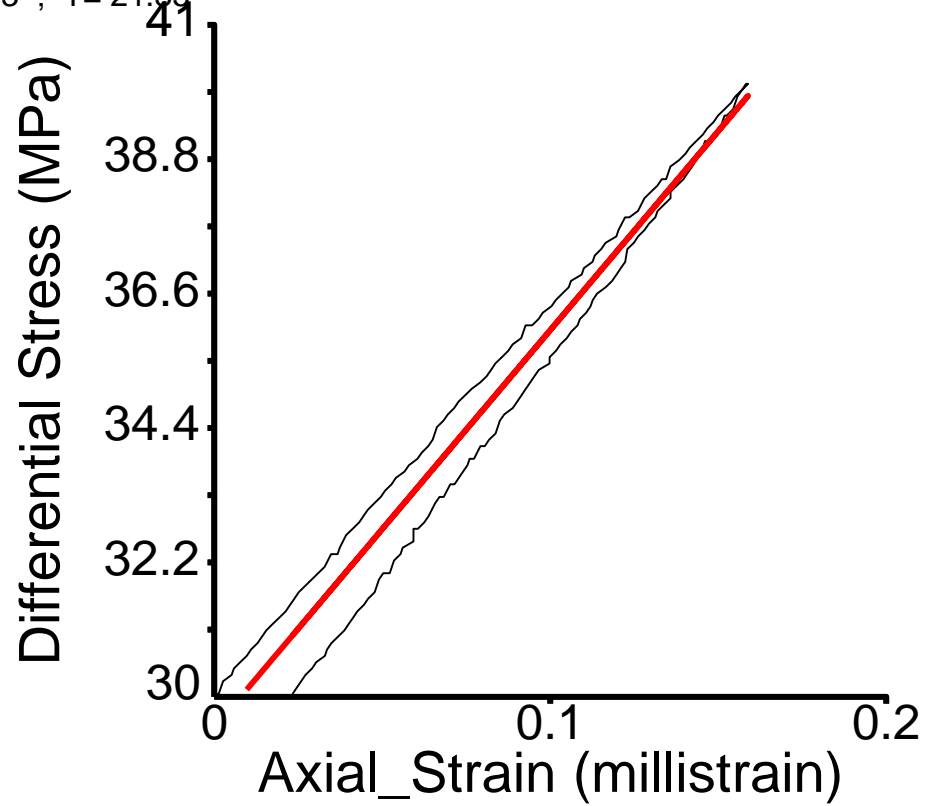
Mode: UStress  
K = 36.69 GPa  
G = 21.76 GPa  
E = 54.51 GPa  
n = 0.2524  
P = 65.7 GPa

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File: BC\_130620\_S1\_StaticProp Entry: 5 Depth: 1444.752 m

1 cycles, Full

Cp= 30.3 ; T= 21.35



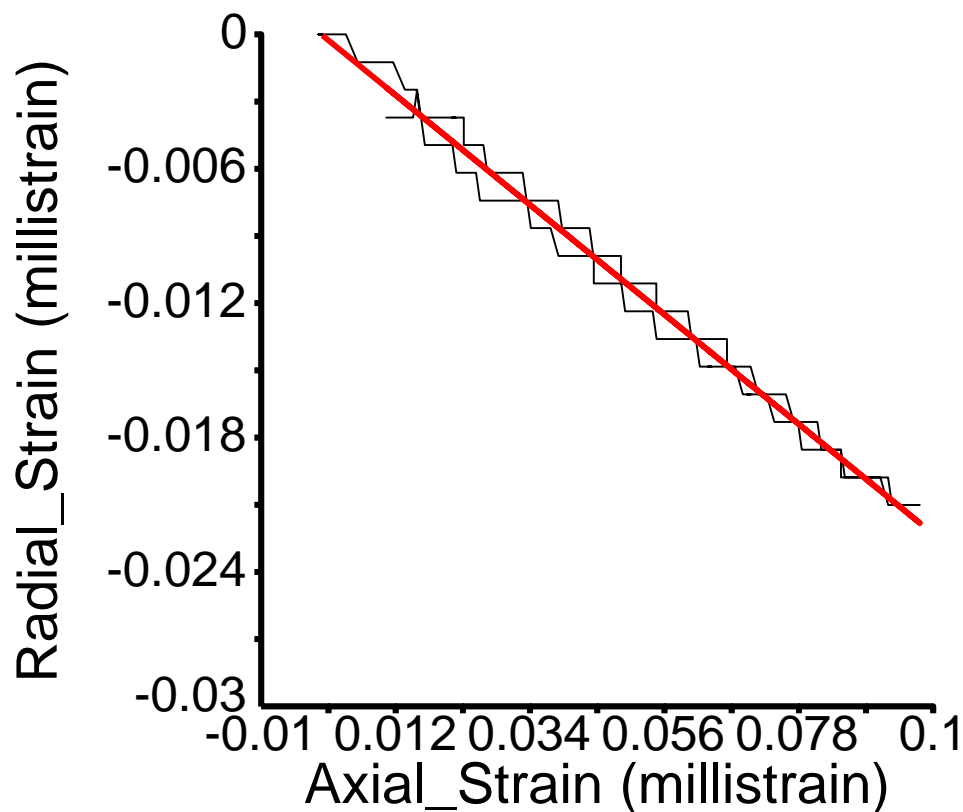
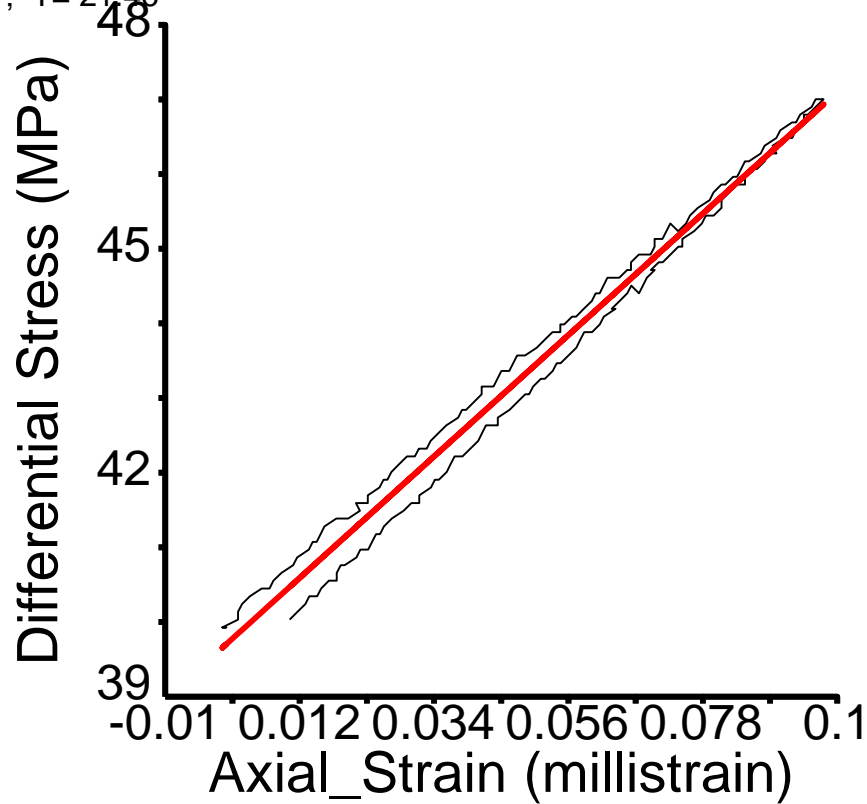
Mode: UStress  
K = 42.31 GPa  
G = 26.2 GPa  
E = 65.15 GPa  
n = 0.2434  
P = 77.24 GPa

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File: BC\_130620\_S1\_StaticProp Entry: 6 Depth: 1444.752 m

1 cycles, Full

Cp= 40.33 ; T= 21.46



Mode: UStress  
K = 44.42 GPa  
G = 30.24 GPa  
E = 73.94 GPa  
n = 0.2226  
P = 84.74 GPa

