

Well name:	<b>Pecos Fed #2</b>
Operator:	<b>Devon Energy Corporation (Nevada)</b> State
String type:	<b>Intermediate</b>
Location:	<b>Section 32, T20S, R27E, Eddy Co., NM</b>

**Design parameters:**
**Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 92 °F  
Temperature gradient: 1.00 °F/100ft  
Minimum section length: 450 ft  
Minimum Drift: 8.765 in

**Burst**

Max anticipated surface pressure: 235 psi  
Internal gradient: 0.433 psi/ft  
Calculated BHP 971 psi  
  
Annular backup: 8.40 ppg

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)  
Min. Overpull 25.0 Kips  
Tension is based on buoyed weight.  
Neutral point: 1,489 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 11,300 ft  
Next mud weight: 9.600 ppg  
Next setting BHP: 5,635 psi  
Fracture mud wt: 11.000 ppg  
Fracture depth: 1,700 ft  
Injection pressure 971 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	1700	9.625	36.00	J-55	LT&C	1700	1700	8.796	121.1

  

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	742	2020	2.72	235	3520	14.96	54	453	8.45 J

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Date: October 11, 1999  
Oklahoma City, Oklahoma

**Remarks:**

Collapse is based on a vertical depth of 1700 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.