

Well name: **Avalon 32-2**
 Operator: **Devon Energy Production Company L.P.**
 String type: **Intermediate**
 Location: **Section 32, T20S, R27E**

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: 89 °F
 Temperature gradient: 0.80 °F/100ft
 Minimum section length: 450 ft

Burst

Max anticipated surface pressure: 883 psi
 Internal gradient: 0.000 psi/ft
 Calculated BHP 883 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: 1.60 (B)
 Min. Overpull 25.0 kips
 Tension is based on air weight.
 Neutral point: 1,488 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 11,000 ft
 Next mud weight: 8.600 ppg
 Next setting BHP: 4,914 psi
 Fracture mud wt: 10.000 ppg
 Fracture depth: 1,700 ft
 Injection pressure 883 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)	Est. Cost (\$)
1	1700	8.625	32.00	J-55	LT&C	1700	1700	7.875	13700
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	2530	3.41	883	3930	4.45	54.4	417	7.67 J

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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.