

Well name: **Big Cactus #3**
 Operator: **Devon Energy Corporation (Nevada)**
 String type: **Production**
 Location: **Section 9, T21S, R26E, Eddy County, NM**

Design parameters:

Collapse

Mud weight: 7.000 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
 Surface temperature: 75 °F
 Bottom hole temperature: 170 °F
 Temperature gradient: 0.85 °F/100ft
 Minimum section length: 450 ft

Surface pressure: 1,500 psi

Burst:

Design factor 1.00

Burst

Max anticipated surface pressure: 4,055 psi
 Internal gradient: 0.000 psi/ft
 Calculated BHP 4,055 psi

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)

Non-directional string.

Annular backup: 9.60 ppg

Tension is based on buoyed weight.
 Neutral point: 9,966 ft

Packer fluid details:
 Fluid density: 8.500 ppg
 Packer depth: 10,500 ft

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	11150	5.5	17.00	L-80	LT&C	11150	11150	4.767	70646
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	5555	6290	1.13	4055	7740	1.91	169.4	338	1.99 J

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 Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 11150 ft, a mud weight of 7 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.

Engineering responsibility for use of this design will be that of the purchaser.