

Well name:

Cochiti 32 "C" State #1

Operator: **Devon Energy Production Company, L.P.**

String type: Production

Location: Section 32, T23S, R29E

Design parameters:

Collapse

Mud weight: 7.400 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 90 °F
Bottom hole temperature: 174 °F
Temperature gradient: 0.80 °F/100ft
Minimum section length: 600 ft

Surface pressure: 1,200 psi

Burst:

Design factor 1.00

Burst

Max anticipated surface pressure: 4,036 psi
Internal gradient: 0.000 psi/ft
Calculated BHP 4,036 psi
Annular backup: 9.60 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)

Non-directional string.

Packer fluid details:
Fluid density: 8.500 ppg
Packer depth: 10,250 ft

Tension is based on air weight.
Neutral point: 9,431 ft

Estimated cost: 189,268 (\$)

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 (\$)
2	9000	7	26.00	L-80	LT&C	9000	9000	6.151	172973
1	1500	7	29.00	L-80	LT&C	10500	10500	6.059	16295
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
2	4660	5296	1.14	4036	7240	1.79	277.5	511	1.84 J
1	5236	7020	1.34	3522	8160	2.32	43.5	587	13.49 J

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Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 10500 ft, a mud weight of 7.4 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.

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