

Well name:	Cochiti 32 "C" State #1
Operator:	Devon Energy Production Company, L.P.
String type:	Intermediate
Location:	Section 32, T23S, R29E

Design parameters:
Collapse

Mud weight: 10.000 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: 112 °F
Temperature gradient: 0.80 °F/100ft
Minimum section length: 600 ft

Surface pressure: 350 psi

Burst:

Design factor 1.00

Burst

Max anticipated surface pressure: 1,683 psi
Internal gradient: 0.000 psi/ft
Calculated BHP 1,683 psi

Annular backup: 10.00 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)

Tension is based on air weight.
Neutral point: 2,300 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 10,500 ft
Next mud weight: 9.600 ppg
Next setting BHP: 5,236 psi
Fracture mud wt: 12.000 ppg
Fracture depth: 2,700 ft
Injection pressure 1,683 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	2700	9.625	36.00	J-55	LT&C	2700	2700	8.796	22079
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	1753	2020	1.15	1683	3520	2.09	97.2	453	4.66 J

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Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 2700 ft, a mud weight of 10 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.