

Well name:	Campana 2 "M" State #1
Operator:	Devon Energy Production Company, L.P.
String type:	Surface
Location:	Section 2, T24S, R26E, Eddy County, NM

Design parameters:
Collapse

Mud weight: 8.800 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: 79 °F
Temperature gradient: 0.80 °F/100ft
Minimum section length: 450 ft

Burst

Max anticipated surface pressure: 257 psi
Internal gradient: 0.000 psi/ft
Calculated BHP: 257 psi
Annular backup: 8.80 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.

Tension is based on air weight.
Neutral point: 392 ft

Re subsequent strings:

Next setting depth: 5,500 ft
Next mud weight: 9.000 ppg
Next setting BHP: 2,571 psi
Fracture mud wt: 11.000 ppg
Fracture depth: 450 ft
Injection pressure: 257 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	450	13.375	48.00	H-40	ST&C	450	450	12.59	5581

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (klps)	Tension Strength (klps)	Tension Design Factor
1	206	740	3.60	257	1730	6.73	21.6	322	14.91 J

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Remarks:

Collapse is based on a vertical depth of 450 ft, a mud weight of 8.8 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.