

Well name:	WereWolf Hill 4 D Fed. #1
Operator:	Devon Energy Production Company L.P.
String type:	Intermediate
Location:	860' FNL & 660' FWL, Sec. 4, T22S, R26E

Design parameters:**Collapse**

Mud weight: 8.600 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 80 °F
Bottom hole temperature: 98 °F
Temperature gradient: 0.80 °F/100ft
Minimum section length: 550 ft

Surface pressure: 700 psi

Burst:

Design factor 1.00

Burst

Max anticipated surface pressure: 1,286 psi
Internal gradient: 0.000 psi/ft
Calculated BHP 1,286 psi

Annular backup: 8.60 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.

Tension is based on air weight.
Neutral point: 1,964 ft

Re subsequent strings:

Next setting depth: 11,400 ft
Next mud weight: 9.600 ppg
Next setting BHP: 5,685 psi
Fracture mud wt: 11.000 ppg
Fracture depth: 2,250 ft
Injection pressure 1,286 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	2250	9.625	36.00	J-55	ST&C	2250	2250	8.796	19557
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	1705	2020	1.18	1286	3520	2.74	81	394	4.86 J

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Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 2250 ft, a mud weight of 8.6 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.