

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

Design parameters:**Collapse**

Mud weight: 8.500 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: 84 °F
Temperature gradient: 0.80 °F/100ft
Minimum section length: 550 ft

Surface pressure: 200 psi

Burst:

Design factor 1.00

Burst

Max anticipated surface pressure: 314 psi
Internal gradient: 0.000 psi/ft
Calculated BHP 314 psi
Annular backup: 8.50 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: 482 ft

Re subsequent strings:

Next setting depth: 2,250 ft
Next mud weight: 8.600 ppg
Next setting BHP: 1,005 psi
Fracture mud wt: 11.000 ppg
Fracture depth: 550 ft
Injection pressure 314 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	550	13.375	48.00	H-40	ST&C	550	550	12.59	6821

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	443	740	1.67	314	1730	5.50	26.4	322	12.20 J

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Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 550 ft, a mud weight of 8.5 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.