

Well name: **Rifleman 6 "H" Federal #2**
 Operator: **Devon - SFS Operating, Inc.**
 String type: **Liner: Production**
 Location: **Section 6, T22S, R26E, Eddy Co, NM**

Design parameters:

Collapse

Mud weight: 6.700 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
 Surface temperature: 75 °F
 Bottom hole temperature: 168 °F
 Temperature gradient: 0.80 °F/100ft
 Minimum section length: 500 ft
 Minimum Drift: 3.750 in

Surface pressure: 1,100 psi

Burst:

Design factor 1.00

Burst

Max anticipated surface pressure: 4,037 psi
 Internal gradient: 0.000 psi/ft
 Calculated BHP 4,037 psi

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.

Annular backup: 8.50 ppg

Tension is based on air weight.

Packer fluid details:
 Fluid density: 8.500 ppg
 Packer depth: 11,400 ft

Neutral point: 10,438 ft

Estimated cost: 55,537 (\$)

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	1900	4.5	11.60	L-80	LT&C	11600	11600	3.875	8802
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	5137	6350	1.24	4037	7780	1.93	22	212	9.62 J

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 Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 11600 ft, a mud weight of 6.7 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.