

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

Design parameters:

Collapse

Mud weight: 9.000 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: 94 °F
Temperature gradient: 0.80 °F/100ft
Minimum section length: 500 ft
Minimum Drift: 8.750 in

Burst

Max anticipated surface pressure: 1,371 psi
Internal gradient: 0.000 psi/ft
Calculated BHP 1,371 psi

Annular backup: 9.00 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: 2,080 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 10,000 ft
Next mud weight: 8.500 ppg
Next setting BHP: 4,416 psi
Fracture mud wt: 11.000 ppg
Fracture depth: 2,400 ft
Injection pressure 1,371 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	2400	9.625	36.00	J-55	LT&C	2400	2400	8.796	19625

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	1122	2020	1.80	1371	3520	2.57	86.4	453	5.24 J

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Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 2400 ft, a mud weight of 9 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.