Well name: **Rifleman 6 "H" Federal #2**
Operator: **Devon - SFS Operating, Inc.**
String type: Surface

Location: Section 6, T22S, R26E, Eddy County, NM

Design parameters:

Collapse
Mud weight: 8.800 ppg
Design is based on evacuated pipe.

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

Annular backup: 8.80 ppg

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

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: 435 ft

Environment:
H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 79 °F
Temperature gradient: 0.80 °F/100ft
Minimum section length: 500 ft
Minimum Drift: 2.250 in

Non-directional string.

Re subsequent strings:
Next setting depth: 2,400 ft
Next mud weight: 9.000 ppg
Next setting BHP: 1,122 psi
Fracture mud wt: 11.000 ppg
Fracture depth: 500 ft
Injection pressure 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	500	13.375	48.00	H-40	ST&C	500	500	12.59	6197

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	228	740	3.24	286	1730	6.05	24	322	13.42 J

Prepared by: W.M. Frank, Devon Energy
Phone: (405) 552-4595
FAX: (405) 552-4621
Date: March 15,2002
Oklahoma City, Oklahoma

Remarks:
Collapse is based on a vertical depth of 500 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.