Well name: **Old Ranch Knoll 8-6**
Operator: **Devon-SFS Operating, Inc.**
String type: Surface
Location: BHL: 1905' FNL & 660' FEL Sec. 8, T22S, R24E

Design parameters:

Collapse
Mud weight: 8.500 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,029 psi
Internal gradient: 0.000 psi/ft
Calculated BHP 1,029 psi
Annular backup: 8.50 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: 1,575 ft

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 89 °F
Temperature gradient: 0.80 °F/100ft
Minimum section length: 1,000 ft
Minimum Drift: 8.750 In

Non-directional string.

Re subsequent strings:

Next setting depth: 8,500 ft
Next mud weight: 9.000 ppg
Next setting BHP: 3,974 psi
Fracture mud wt: 11.000 ppg
Fracture depth: 1,800 ft
Injection pressure 1,029 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	1800	9.625	32.30	H-40	ST&C	1800	1800	8.876	14884

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	795	1370	1.72	1029	2270	2.21	58.1	254	4.37 J

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Date: January 15,2002
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Remarks:
Collapse is based on a vertical depth of 1800 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.