

Well name: **Jones Canyon 4-8**
 Operator: **Devon-SFS Operating, Inc.**
 String type: **Production**
 Location: **BHL 660' FSI & 660' FEL, Sec. 4, T22S, R24E**

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? Yes
 Surface temperature: 75 °F
 Bottom hole temperature: 143 °F
 Temperature gradient: 0.80 °F/100ft
 Minimum section length: 1,000 ft

Burst

Max anticipated surface pressure: 3,974 psi
 Internal gradient: 0.000 psi/ft
 Calculated BHP: 3,974 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)

Directional Info - Build & Hold
 Kick-off point: 6400 ft
 Departure at shoe: 566 ft
 Maximum dogleg: 1.5 °/100ft
 Inclination at shoe: 23.36 °

Tension is based on air weight.
 Neutral point: 7,360 ft

Estimated cost: 61,291 (\$)

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 (\$)
3	1000	7	23.00	L-80	LT&C	1000	1000	6.25	8969
2	4800	7	23.00	J-55	LT&C	5800	5800	6.25	25186
1	2795	7	23.00	HCL-80	LT&C	8500	8595	6.25	27136

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
3	468	3315	7.09	3974	6340	1.60	195.5	435	2.23 J
2	2712	3082	1.14	3506	4360	1.24	172.5	313	1.81 J
1	3974	5650	1.42	1262	6340	5.02	62.1	485	7.81 J

Prepared W.M. Frank
 by: Devon Energy

Phone: (405) 552-4595
 FAX: (405) 552-4621

Date: January 15, 2002
 Oklahoma City, Oklahoma

Remarks:

Collapse is based on a vertical depth of 8500 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.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.