Well name: **Jones Canyon 4-7**
Operator: **Devon-SFS Operating Inc.**
String type: Production
Location: BHL 660' FNL & 660' FEL, Sec. 4, T22S, R24E

Design parameters:

Collapse
Mud weight: 9.000 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 3,974 psi
Internal gradient: 0.000 psi/ft
Calculated BHP 3,974 psi
Annular backup: 9.00 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: 7,407 ft

Estimated cost: 63,630 ($)

Environment:
H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 143 °F
Temperature gradient: 0.80 °F/100ft
Minimum section length: 1,000 ft

Directional Info - Build & Hold
Kick-off point 5700 ft
Departure at shoe: 1139 ft
Maximum dogleg: 1.5 °/100ft
Inclination at shoe: 36.44 °

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	4700	7	23.00	J-55	LT&C	5700	5700	6.25	24661
1	3090	7	23.00	HCL-80	LT&C	8500	8790	6.25	30000

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (klps)	Tension Strength (kips)	Tension Design Factor
3	468	3315	7.09	3974	6340	1.60	195.5	435	2.22 J
2	2665	3073	1.15	3507	4360	1.24	172.5	313	1.81 J
1	3974	5650	1.42	1309	6340	4.84	64.4	485	7.53 J

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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