Well name:	**Pecos Fed. #2**	
Operator:	**Devon Energy Corporation (Nevada)**	State
String type:	Production	
Location:	Section 32, T20S, R27E, Eddy Co., NM	

Design parameters:

Collapse
Mud weight: 7.300 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface
pressure: 4,248 psi
Internal gradient: 0.000 psi/ft
Calculated BHP 4,171 psi

Annular backup: 9.60 ppg

Packer fluid details:
Fluid density: 8.400 ppg
Packer depth: 10,600 ft

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:	1.50 (B)
Min. Overpull	25.0 Kips

Tension is based on buoyed weight.
Neutral point: 10,031 ft

Environment:
H2S considered?	No
Surface temperature:	75 °F
Bottom hole temperature:	185 °F
Temperature gradient:	1.00 °F/100ft
Minimum section length:	450 ft

Directional Info - Build & Drop
Kick-off point	3414 ft
Departure at shoe:	1312 ft
Maximum dogleg:	1.5 °/100ft
Inclination at shoe:	0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
3	3000	5.5	17.00	L-80	LT&C	3000	3000	4.767	103.4
2	5000	5.5	15.50	J-55	LT&C	7802	8000	4.825	156.7
1	3201	5.5	17.00	L-80	LT&C	11000	11201	4.767	110.3

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	1138	5692	5.00	4248	7740	1.82	160	338	2.11 J
2	2959	3821	1.29	4061	4810	1.18	109	217	1.99 J
1	4171	6290	1.51	3761	7740	2.06	34	338	9.80 J

Prepared by: W.M. Frank
Devon Energy

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

Date: November 12,1999
Oklahoma City, Oklahoma

Remarks:
Collapse is based on a vertical depth of 11000 ft, a mud weight of 7.3 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.