Ope		evon-SFS	Operating, Ir	Old F	anch Ca	nyon 7-6			
			7 7000 004						
	ation: Ur		7, T22\$, R24	E, Eddy Co	. NM	······			
Design parameters:				Minimum design factors:			Environment:		
Collapse Mud weight: 9.000 ppg Design is based on evacuated pipe.				<u>Collapse</u> Design fa		1.125	H2S considered? Yes Surface temperature: 75 °F Bottom hole temperature: 143 °F Temperature gradient: 0.80 °F/100		75 °F ə: 143 ° F 0.80 °F/100ft
Burst				<u>Burst:</u> Design fa	ctor	1.00	Minimum section length: 1,000 ft		1,000 ft
Max anticipated surface pressure: 3,974 psi Internal gradient: 0.000 psi/ft Calculated BHP 3,974 psi Annular backup: 9.00 ppg				<u>Tension:</u> 8 Round STC: 8 Round LTC: Buttress: Premium: Body yield:		1.80 (J) 1.80 (J) 1.60 (J) 1.50 (J) 1.50 (B)	Directional Info - Build & Hold Kick-off point 5000 ft Departure at shoe: 497 ft Maximum dogleg: 1.5 °/100ft Inclination at shoe: 8.81 °		
			Tension is based on air weight. Neutral point: 7,373 ft						
				Estimated cost: 61,471 (\$)					
Run Seq	Segment Length (ft)	Sizə (In)	Nominal Weight (Ibs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter	Est. Cost
3	1200	7	23.00	L-80	LT&C	1200	1200	(in) 6.25	(\$) 10763
2	4600	7	23.00	J-55	LT&C	5795	5800	5.25	24136
1	2737	7 _	23.00	HCL-80	LT&C	8500	8537	6.25	26572
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension

Prepared	W.M. Frank
by:	Devon Energy

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

Strength

(psi)

6340

4360

6340

Date: January 15,2002 Oklahoma City, Oklahoma

Strength

(kips)

435

313

485

Design

Factor

2.23 J

1.86 J

7.80 J

Load

(kips)

195.5

167.9

62.2

Design

Factor

1.60

1.28

5.01

Remarks:

Seq

3

2

1

Load

(psi)

561

2709

3974

Strength

(psl)

3334

3081

5650

Design

Factor

5.94

1.14

1.42

Load

(psi)

3974

3413

1265

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 blaxial 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.