## BASS ENTERPRISES

Operator: BASS ENTERPRISES Well Name: JRU #70									
Project ID: Location: EDDY								co	
Design Parameters:Design Factors:Mud weight (9.00 ppg): 0.463 psi/ftCollapse : 1.000Shut in surface pressure : 700 psiBurst : 1.00Internal gradient (burst) : 0.000 psi/ft8 Round : 1.60 (J)Annular gradient (burst) : 0.468 psi/ftButtress : 1.60 (J)Tensile load is determined using air weightOther : 1.60 (J)Service rating is "Sweet"Body Yield : 1.60 (B)									
1	Length (feet)	Size (in.)	Weight (lb/ft)		e Joi		Depth (feet)	Drift (in.)	Cost
l	700	13.375	43.00	H-4	0 ST&	c -	700	12.559	
	Load (psi)	Collapse Strgth (psi)	1	Burst Load (psi)			Load (kips	Tension Strgth ) (kips)	S.F.
1	327	740	2.261	700	1730	2.47	33.6	0 322	9.58 J

Prepared by : BJL, Midland, TX Date : 04-07-1994 Remarks :

Minimum segment length for the 700 foot well is 100 feet.

Surface string:

Next string will set at 3,800 ft. with 10.00 ppg mud (pore pressure of 1,974 psi.) The frac gradient of 1.000 psi/ft at 700 feet results in an injection pressure of 700 psi Effective BHP (for burst) is 700 psi, the BHP load is 373 psi (using an annular mud of 9.00 ppg) and the differential gradient is -0.470 psi/ft.

NOTE:

The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.3 - 3 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemier curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1987 pricing model. (Version 1.06)