

BASS ENTERPRISES

Operator: BASS ENTERPRISES	Well Name: JRU #70
Project ID:	Location: EDDY OC., NM

Design Parameters:

Mud weight (10.00 ppg): 0.519 psi/ft
 Shut in surface pressure : 3517 psi
 Internal gradient (burst) : 0.074 psi/ft
 Annular gradient (burst) : 0.519 psi/ft
 Tensile load is determined using air weight
 Service rating is "Sweet"

Design Factors:

Collapse : 1.000
 Burst : 1.00
 8 Round : 1.60 (J)
 Buttress : 1.60 (J)
 Other : 1.60 (J)
 Body Yield : 1.60 (B)

Length (feet)		Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	3,800	9.625	36.00	K-55	ST&C	3,800	8.765	
	Collapse Load Strgth S.F. (psi) (psi)			Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load Strgth S.F. (kips) (kips)	
1	1974	2020	1.023	3517	3520	1.00	136.80	423 3.09 J

Prepared by : B.J.L. Midland, TX

Date : 05-05-1994

Remarks :

Minimum segment length for the 3,800 foot well is 1,000 feet.

SICP is based on the ideal gas law, a gas gravity of 0.60, and a mean gas temperature of 134°F (Surface 74°F, BHT 112°F & temp. gradient 1.000°/100 ft.)

Surface/Intermediate string:

Next string will set at 12,000 ft. with 9.50 ppg mud (pore pressure of 5,922 psi.) The frac gradient of 1.000 psi/ft at 3,800 feet results in an injection pressure of 3,800 psi Effective BHP (for burst) is 3,800 psi, the BHP load is 1,826 psi (using an annular mud of 10.00 ppg) and the differential gradient is -0.440 psi/ft.

NOTE: The design factors used in this casing string design are as shown above. As a general guide-line, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.3 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler 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)