PLA NS PETROLEUM >PER. CO.

Operator: PPOC	Well Name: E C HILL B FED #12
Project ID:	Location: 985' FSL 550' FEL

Design Parameters:

Mud Weight (7.60 ppg)	: 0.395	psi/ft
Shut in casing pressure	: 3751	psi
Internal gradient (burst)	: 0.008	psi/ft
Annular gradient (burst)	: 0.395	psi/ft

Tensile load is determined using buoyed weight
Service rating is "Sweet"

Design Factors:

Collapse	: 1.125	
Burst	: 1.10	
8 Round	: 1.75	(J)
Buttress	: 1.60	(J)
Other	: 1.50	(J)
Body Yield	: 1.50	(B)

	Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	9,700	2.875	6.50	J-55	EUE 8rd	9,700	2.347	

	Collapse Load (psi)	Collapse Strgth (psi)	Collapse S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	Burst S.F.	Tension Load (kips)	Tension Strgth (kips)	Tension S.F.
1	3830	7680	2.005	3751	7260	1.94	55.72	99.7	1.79 J

Prepared by : *DJB, Midland, Texas*
Date : 09-19-1994
Remarks :
LEA COUNTY, NEW MEXICO
Minimum segment length for the 9,700 foot well is 100 feet.
SICP is based on the ideal gas law, a gas gravity of 0.15, and a mean gas temperature of 89°F (Surface 74°F , BHT 171°F & temp. gradient 1.000°/100 ft.)
The minimum specified drift diameter is 7.875 in.
An annular mud weight of 8.000 ppg was used for burst purposes. The differential mud gradient below any lost-circulation depth is -0.387 psi/ft and the bottom hole pressure load is 0 psi.

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, 1.8 - 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)