DEVON ENERGY

Operator: DEVON	Well Name: MESCALERO RIDGE UNIT
Project ID:	Location: LEA CO., NM

Design Parameters:

Mud weight (10.00 ppg)	: 0.519	psi/ft
Shut in surface pressure	: 2643	psi
Internal gradient (burst)	: 0.100	psi/ft
Annular gradient (burst)	: 0.000	psi/ft

Tensile load is determined using air weight

Service rating is "Sweet"

Design Factors:

Collapse	: 1.125	
Burst	: 1.00	
8 Round	: 1.80	(J)
Buttress	: 9.90	(J)
Body Yield	: 1.50	(B)
Overpull	: 0	lbs.

	Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	6,300	5-1/2"	15.50	J-55	ST&C	6,300	4.825	

	Collapse Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	S.F.	Tension Load (kips)	Tension Strgth (kips)	S.F.
1	3273	4040	1.234	3273	4810	1.47	97.65	202	2.07 J

Prepared by : E. BUTTROSS, Oklahoma City, OK
Date : 06-03-1995
Remarks :

Minimum segment length for the 6,300 foot well is 6,300 feet.

The mud gradient and bottom hole pressures (for burst) are 0.519 psi/ft and 3,273 psi, respectively.

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 1990 pricing model. (Version 1.0G)