FORM CR-13
1/72

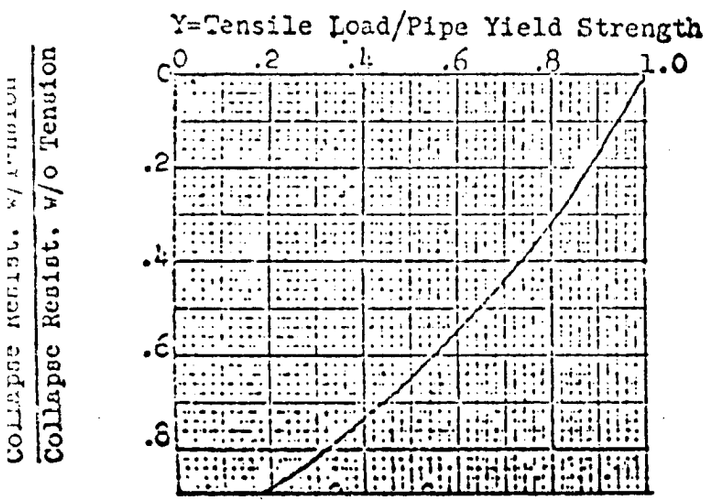
CASING AND TUBING DESIGN

WELL Laguna Federal #1 FIELD Laguna Project

CASING STRING 2nd Intermediate COUNTY Lea STATE New Mexico DATE 11-16-77 DESIGN BY JCH

CASING SIZE 5½" HOLE SIZE 8½" MUD WT. I 10.5 #/g. HYD GR. I .546 psi/ft. MUD WT. II 9 #/g. HYD. GR. II .469 psi/ft. M.S.P. 6500 psi.

INTERVAL Bottom	INTERVAL Top	LENGTH	DESCRIPTION Wt.	DESCRIPTION Grade	DESCRIPTION Thread	WEIGHT W/ BF ___ W/O BF ✓ lbs	TENSION -top of section lbs	MINIMUM STRENGTH TENSION 1000 lbs	TDF	COLLAPSE PRESS. @ bottom psi	COLLAPSE RESIST. tension psi	CDF	BURST PRESSURE psi	INTERNAL MINIMUM YIELD psi	BDF	PRICE PER FT.	COST
13600	10500	3150'	17#	S95	LT&C	53550	53550	392	Hi	2450	8360	1.12	6500	9180	1.41		
10500	2500	8000'	17#	N80	LT&C	136000	189550	348	1.83	5750	6150	1.07	6500	7740	1.19		
2500	0	2500'	17#	S95	Butt	42500	232000	471	2.03	1365	7500	Hi	6500	9180	1.41		



Formulae:

Collapse resistance in tension =
X (Collapse pressure rating)

Burst Pressure =
MSP + Depth (Hyd. Gr. II —.5)

BF (Bouyancy Factor) =
1.00 — (0.0153 X Mud Wt. I)

Calculations:

Total Cost _____