FORM CR-13
1/72

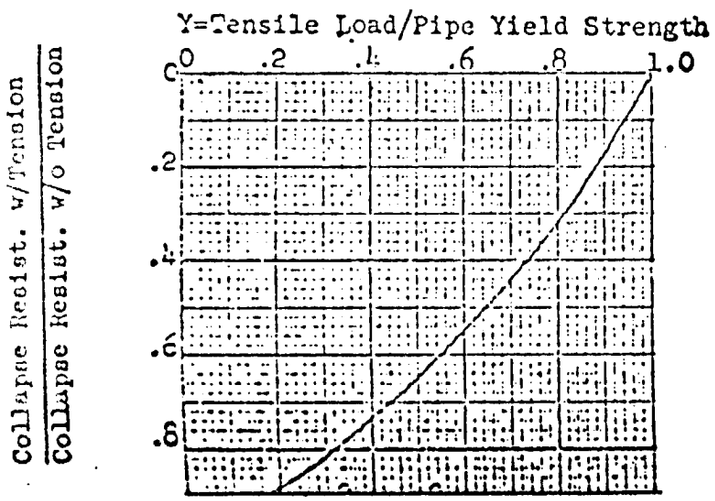
CASING AND TUBING DESIGN

WELL Laguna Deep Unit Fed #1 FIELD Laguna Prospect

CASING STRING 1st Intermediate COUNTY Lea STATE New Mexico DATE 11-23-77 DESIGN BY JCH

CASING SIZE 13 3/8" HOLE SIZE 17 1/2" MUD WT. I 10 #/g. HYD GR. I .52 psi/ft. MUD WT. II 9 #/g. HYD. GR. II .468 psi/ft. M.S.P. 2000 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
3100'	2100	1000'	61#	LS80	STC	61000	61000	760	4.1	1600	2040	1.275	2000	3090			
2100	0	2100'	54.5#	K55	STC	114400	175400	547	3.1	1100	1130	1.03	2000	2730			



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 _____