FORM CR-13
1/72

CASING AND TUBING DESIGN

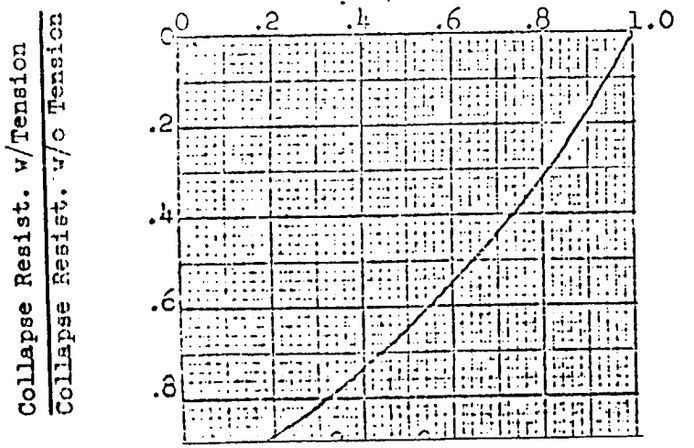
WELL Apollo Deep Unit No5 FIELD Quail Ridge Morrow

CASING STRING Tubing COUNTY Lea STATE New Mexico DATE 2-18-80 DESIGN BY JKB

CASING SIZE 2 7/8" HOLE SIZE 4 3/4" MUD WT. I 10 #/g. HYD GR. I .52 psi/ft. MUD WT. II ____ #/g. HYD. GR. II ____ psi/ft. M.S.P. ____ 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
13,600	0	13,600'	6.5#	N80	AB Mod EUE 8rd	89000	89000	145	1.63	7124	11,160	1.56	10,000	10,570	—		

Y=Tensile Load/Pipe Yield Strength



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 ____