DATE 10-4-48

SUBJECT OF EXPT.

Cox's

$$Y = \frac{2}{3} \frac{P}{W^2 - 1} \left(2W^2 + 1 \right)$$

W = outside dia / inside dia P = Pressure unit

Y = Stress

$= \frac{1.15}{1.00} = 23$ $W^2 = 5.19$

$$Y = \frac{2}{3} \frac{8400}{4.19} 11.38$$

$= 15200$ #

AVERAGE S using LAME'S $P_2 = 0$

$$S = \frac{P\left(r_1^2 + \frac{r_1^2 r_2^2}{r^2}\right)}{r_2^2 - r_1^2}$$

Substituting

$r = .750$	S_1	$= 123,000$	
$r = .338$	S_2	$= 80,600$	$203,600$
$r = .412$	S_3	$= 57,200$	$138,800$
$r = .494$	S_4	$= 45,600$	$103,800$
$r = .575$	S_5	$= 38,800$	$84,400$

EXPERIMENTER DATE

WITNESS DATE