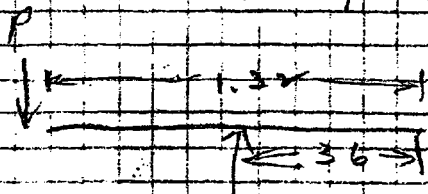


DATE

9-14-44

SUBJECT OF EXPT.

Seon Spring (Second)



$$4 \#$$

$$5.5 \#$$

$$36(4) = 1.32 P$$

$$P = 11 \#$$

$$36(5.5) = 1.32 P$$

$$P = 15 \#$$

Second Spring

O.D. - .167

WIRE - 0.06

MEAN D - .141

$$29.5(X - 380) = 4 \#$$

$$X = \frac{38}{29.5} + 380 = 500 \text{ FREE LENGTH}$$

$$P = \frac{11,500,000 (.0000047)}{64 (.0008)} = 29.3 \text{ lb/in}$$

$$\text{Index} = 5.4 = 1.78 \text{ WIRE K}$$

$$\text{COCKED } (500 - 380) 29.3 = 3.5 \#$$

$$\text{FIRED } (500 - 340) \text{ " } = 4.1 \#$$

$$\text{STACKED } (500 - 240) \text{ " } = 7.8 \#$$

$$\text{80\% } (215) \text{ " } = 6.2 \#$$

$$S = P \frac{2.55(.141)}{.000076} K$$

$$= P 10,400 K$$

$$\text{COCKED } 3.5 (20,400) 1.78 = 12,100 \text{ PSI}$$

$$\text{FIRED } 4.1 \text{ " } = 13,100$$

$$\text{STACKED } 7.8 \text{ " } = 20,400$$

$$\text{80\% } 6.2 \text{ " } = 18,200$$

EXPERIMENTER

DATE

WITNESS

DATE