

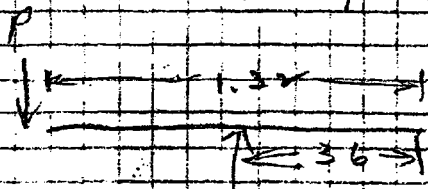
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DATE

9-14-44

SUBJECT OF EXPT.

Seon Spring (Second)



$$P = 4 \text{ lb}$$

$$36(4) = 1.32 P$$

$$P = 11 \text{ lb}$$

$$36(5.5) = 1.32 P$$

$$P = 15 \text{ lb}$$

Second Spring

O.D. - .167

WIRE - .026

MEAN D - .141

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

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

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

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

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

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

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

$$\text{FO? } (215) \text{ " } = 6.2 \text{ lb}$$

$$S = P \frac{2.55(.141)}{.000176} K$$

$$= P 10,400 K$$

$$\text{COCKED } 3.5 (20,400) 1.76 = 12,100 \text{ PSI}$$

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

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

$$\text{FO? } 6.2 \text{ " } = 18,200$$

EXPERIMENTER

DATE

WITNESS

DATE