

86-11875 ~ HOKANSEN

MEMO TO FILE

39N 3W 12

OVERLAP: NO OTHER RIGHTS FOR SEC. 12

NO OTHER RIGHTS FOR SEC. 1

REVIEW FIELD REPORT

NAME ☒ ~ADDRESS ☒ ~P.O.D. LEGAL ☒ ~P.O.D. LEGAL ☒ ~Ruin Q calc on Hp,
H, & LINE DIAM.

→ Admin memo P.R. 16

Q ☒ ~ Domestic: 1/2 ac; .04 CFS IRR: 1 AC; .04 CFS

$$\rightarrow \text{ACTUAL } Q = (10 \frac{\text{GPM}}{\text{min}}) (\frac{1 \text{ min}}{60 \text{ s}}) (\frac{1 \text{ CF}}{7.48 \text{ G}}) = 10 (448.8)^{-1} = 0.022 \text{ cfs}$$

$$(Q \frac{\text{FT}^3}{\text{s}}) (1.5 \text{ DAYS}) (\frac{86400 \text{ s}}{1 \text{ DAY}}) (\frac{1 \text{ AF}}{43.56 \text{ FT}^3}) = \sqrt[3]{(\frac{\text{AC-FT}}{\text{SEASON}})}$$

1.9835

QUESTIONS~~→ I THINK I DUPLICATED PERMIT/APP, VERIFY?~~~~→ VOL. CALCS?~~~~→ CONDITIONS?~~

DIAPHRAM PRESS. TANK. MAX PRESS = 125 PSI

→ IRPDWS → min. 40 PSI FOR OPERATION

$$(40 \frac{\text{lbs}}{\text{IN}^2}) (\frac{144 \text{ IN}^2}{1 \text{ FT}^2}) (\frac{1}{62.4 \frac{\text{FT}^3}{\text{lb}}}) = 92'$$

$$(125 \text{ PSI}) (2.3) = 287.5'$$

$$(20 \text{ PSI}) (2.3) = 46'$$

$$1 \text{ PSI} = 2.3 \text{ FT H}_2\text{O}$$

$$(1 \frac{\text{lb}}{\text{IN}^2}) (62.4 \frac{\text{lb}}{\text{FT}^3})^{-1} (\frac{144 \text{ IN}^2}{1 \text{ FT}^2})$$

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$$Q = \frac{8.8 (H_p) n}{H} \quad [\text{From PERMIT PROCESS \#16}]$$

$$= \frac{8.8 (1.5 H_p) (0.7)}{340'}$$

$$Q = 0.027 \approx 0.03 \text{ cfs}$$

DIVERSION CAPACITY
CALCULATION.

$$\left(0.003 \frac{\text{CF}}{\text{S}} \right) \left(\frac{60 \text{ S}}{1 \text{ min}} \right) \left(\frac{7.48 \text{ GAL}}{1 \text{ CF}} \right) = 1.3 \text{ GAL/min}$$

ESTIMATE P IN TANK ~ 25' +/-

ASSUME PRESS. TANK HAS INTERNAL PRESS $40 \text{ psi} < P < 125 \text{ psi}$
92' OR 182'

$$Q = \frac{8.8 (1.5 h_p) (0.7)}{340' + 92'} = 0.021 \text{ cfs} \quad @ 40 \text{ psi}$$

$$Q = \frac{8.8 (1.5 h_p) (0.7)}{340' + 182'} = 0.015 \text{ cfs} \quad @ 125 \text{ psi}$$

$$Q = \frac{8.8 (1.5 h_p) (0.7)}{340' + 46'} = 0.024 \text{ cfs}$$

I WOULD RECOMMEND A DIVERSION CAPACITY OF ~0.02 cfs

