

RPLE 1 INTERFERENCE TEST - BUILDUP

RPLE 2 PUMPING  $Q = 400 \text{ GPM (3)}$

GL07321

NARR 5  
WILKINS SPON

$$T = kh \left( \frac{\rho}{\mu} \right) (.3284147) = \left( \frac{2100}{2.1 \times 10^{-5}} \right) \left( \frac{57.31 \text{ #/ft}^3}{.12 \text{ cp}} \right) (\text{CONST})$$

$$T = 22000 \text{ gpd-ft}$$

$$S = \frac{(2.25)(22000 \text{ gpd-ft})(19 \text{ hr}) \left( \frac{1 \text{ day}}{24 \text{ hr}} \right) (0.1337 \frac{\text{ft}^3}{\text{g}})}{(4000 \text{ ft})^2}$$

$$S = 3.3 \times 10^{-4}$$

$$t_{SL} = \frac{r^2 S}{4Tu} \quad w/u = 0.01$$

$$t_{SL} = \frac{(4000 \text{ ft})^2 (3.3 \times 10^{-4})}{(4)(22000 \text{ gpd-ft})(0.01) \left( 0.1337 \frac{\text{ft}^3}{\text{g}} \right)} = 45 \text{ DAYS}$$

~~1100~~ hrs.