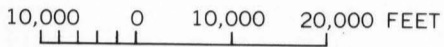
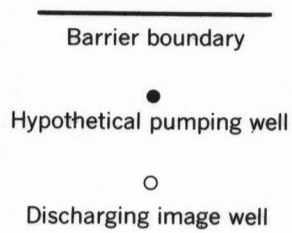
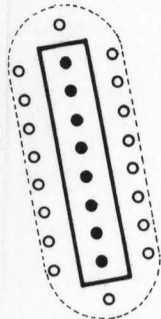


EXPLANATION



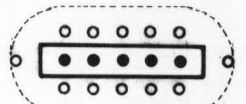
$T = 60,000$ gpd per ft
 $S = 0.20$
 $m = 40$ ft
 $Q = 500$ gpm
 $t = 180$ days



Water-table aquifer

COOPER

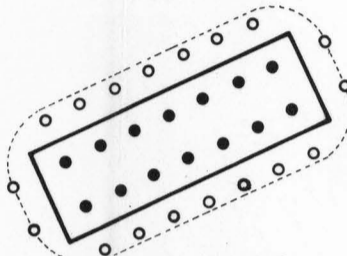
$T = 60,000$ gpd per ft
 $S = 0.20$
 $m = 40$ ft
 $Q = 400$ gpm
 $t = 180$ days



Water-table aquifer

MORROW LAKE

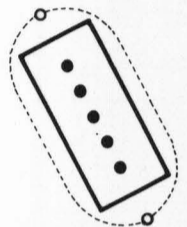
$T = 40,000$ gpd per ft
 $S = 0.20$
 $m = 40$ ft
 $Q = 400$ gpm
 $t = 180$ days



Water-table aquifer

AUGUSTA-GALESBURG

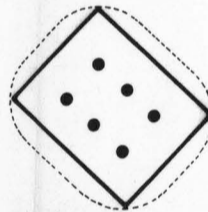
$T = 40,000$ gpd per ft
 $S = 0.20$
 $m = 70$ ft
 $Q = 400$ gpm
 $t = 180$ days



Water-table aquifer

ALAMO-OSHTEMO

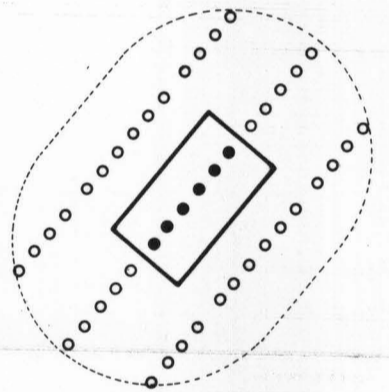
$T = 60,000$ gpd per ft
 $S = 0.20$
 $m = 60$ ft
 $Q = 750$ gpm
 $t = 180$ days



Water-table aquifer

SHERMAN LAKE

$T = 40,000$ gpd per ft
 $S = 0.005$
 $m' = 40$ ft
 $P' = 0.05$ gpd per sq ft
 $Q = 500$ gpm
 $t = 180$ days



Leaky artesian aquifer

VICKSBURG

Water-table aquifer
model formulas

$$s = \frac{114.6 Q W(u)}{T}$$

$$u = \frac{1.87 r^2 S}{tT}$$

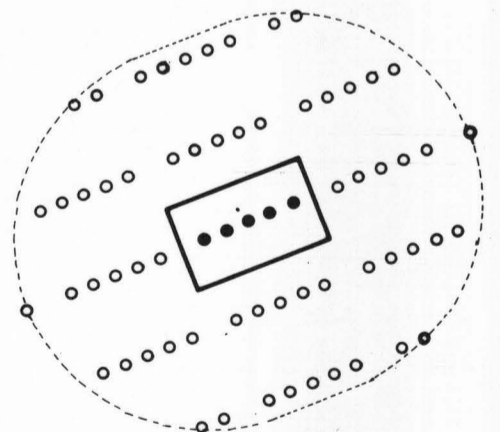
Leaky artesian aquifer
model formulas

$$s = \frac{114.6 Q W(u, r, B)}{T}$$

$$u = \frac{1.87 r^2 S}{tT}$$

$$B = \sqrt{\frac{m' T}{P'}}$$

$T = 100,000$ gpd per ft
 $S = 0.005$
 $m' = 100$ ft
 $P' = 0.05$ gpd per sq ft
 $Q = 400$ gpm
 $t = 180$ days



Leaky artesian aquifer

TEXAS

Hypothetical arrays of real and image wells used for model analyses, physical constants of aquifers (T, S, m, m', P'), pumping rates (Q), and duration of pumping (t). Reservoirs are located on pl. 2

MATHEMATICAL MODELS OF COOPER, MORROW LAKE, AUGUSTA-GALESBURG, ALAMO-OSHTEMO, SHERMAN LAKE, VICKSBURG, AND TEXAS GROUND-WATER RESERVOIRS SHOWING ASSUMED PUMPING WELLS AND ARRAY OF IMAGINARY WELLS. KALAMAZOO COUNTY, SOUTHWESTERN MICHIGAN