

Predictive calculations based on Results of

67L07335

Short term test # 1 on RRGE #2

1. Based on Theis Equation
2. No boundaries

$T = 5000 \text{ gpd/ft}$ $S = 5 \times 10^{-4}$ $r = 4000 \text{ feet}$
 $Q = 400 \text{ gpm}$

Time, t secs	Time t, days	$u = \frac{1.87 r^2 S}{Tt}$	$W(u)$	s_1 feet	$s_1 = \left(\frac{r}{\text{feet}}\right)(.4)$ u	$u = \frac{1.87 r^2 S}{Tt}$ $= \frac{(1.87)(4000)^2 (5 \times 10^{-4})}{5000 t}$ $= 2.992 / t (\text{day})$ $s_1, \text{ feet}$ $= \frac{114.6 Q W(u)}{T}$ $= \frac{114.6 \times 400}{5000} W(u)$ $= 9.168 W(u)$
	1	2.992	.0132	0.121	.048	
	2	1.496	.1006	.922	.369	
	3	.997	.2204	2.021	.808	
	4	.748	.3416	3.132	1.253	
	5	.598	.4558	4.179	1.672	
	6	.499	.5614	5.147	2.059	
	7	.427	.6585	6.037	2.415	
	8	.374	.748	6.858	2.743	
	9	.332	.8308	7.617	3.047	
	10	.2992	.9077	8.322	3.329	