

Data Set: Z:\Turkey Point FPL Units 6 and 7\Hydrogeology\Slug Test Files\OW-721U\_RHT\_SPRINGER-GELHAR.a  
 Title: OW-721 U RISING HEAD 5-15-08  
 Date: 06/08/16  
 Time: 13:05:01

---

PROJECT INFORMATION

Company: Turkey Point  
 Client: BECHTEL  
 Project: 6468-07-1950  
 Location: Turkey Point  
 Test Date: 5-15-08  
 Test Well: OW-721 U

---

AQUIFER DATA

Saturated Thickness: 24.75 ft  
 Anisotropy Ratio (Kz/Kr): 1.

---

SLUG TEST WELL DATA

Test Well: OW-721 U

X Location: 0. ft  
 Y Location: 0. ft

Initial Displacement: 1.444 ft  
 Static Water Column Height: 24.75 ft  
 Casing Radius: 0.083 ft  
 Well Radius: 0.25 ft  
 Well Skin Radius: 0.25 ft  
 Screen Length: 16.1 ft  
 Total Well Penetration Depth: 26. ft

No. of Observations: 34

Time (sec)	Observation Data		Displacement (ft)
	Displacement (ft)	Time (sec)	
0.	1.444	37.44	0.018
1.32	1.035	41.04	0.018
2.76	0.347	44.64	0.018
4.26	0.103	48.84	0.022
5.82	0.039	53.04	0.018
7.5	0.028	57.24	0.019
9.3	0.027	62.04	0.021
11.16	0.024	67.44	0.018
13.2	0.022	72.24	0.022
15.3	0.021	78.24	0.02
17.52	0.018	84.24	0.017
19.92	0.019	90.24	0.016
22.44	0.019	96.84	0.02
25.08	0.017	104.	0.014
27.9	0.021	111.8	0.018
30.9	0.019	119.6	0.021

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
34.08	0.019	128.2	-0.002

SOLUTION

Slug Test  
 Aquifer Model: Unconfined  
 Solution Method: Springer-Gelhar  
 In(Re/rw): 3.501

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	27.03	ft/day
Le	46.33	ft

K = 0.009537 cm/sec  
 T = K\*b = 669.1 ft<sup>2</sup>/day (7.195 sq. cm/sec)  
 Le = 46.33 ft  
 Solution is critically damped when C(D) = 2.

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	Std. Error	Approx. C.I.	t-Ratio	
K	27.03	0.6614	+/- 1.347	40.88	ft/day
Le	46.33	3.798	+/- 7.737	12.2	ft

C.I. is approximate 95% confidence interval for parameter  
 t-ratio = estimate/std. error  
 No estimation window

K = 0.009537 cm/sec  
 T = K\*b = 669.1 ft<sup>2</sup>/day (7.195 sq. cm/sec)  
 Le = 46.33 ft  
 Solution is critically damped when C(D) = 2.

Parameter Correlations

	K	Le
K	1.00	0.04
Le	0.04	1.00

Residual Statistics

for weighted residuals

Sum of Squares...	0.01792 ft <sup>2</sup>
Variance .....	0.00056 ft <sup>2</sup>
Std. Deviation .....	0.02367 ft
Mean .....	0.01766 ft

No. of Residuals .. 34  
No. of Estimates .. 2