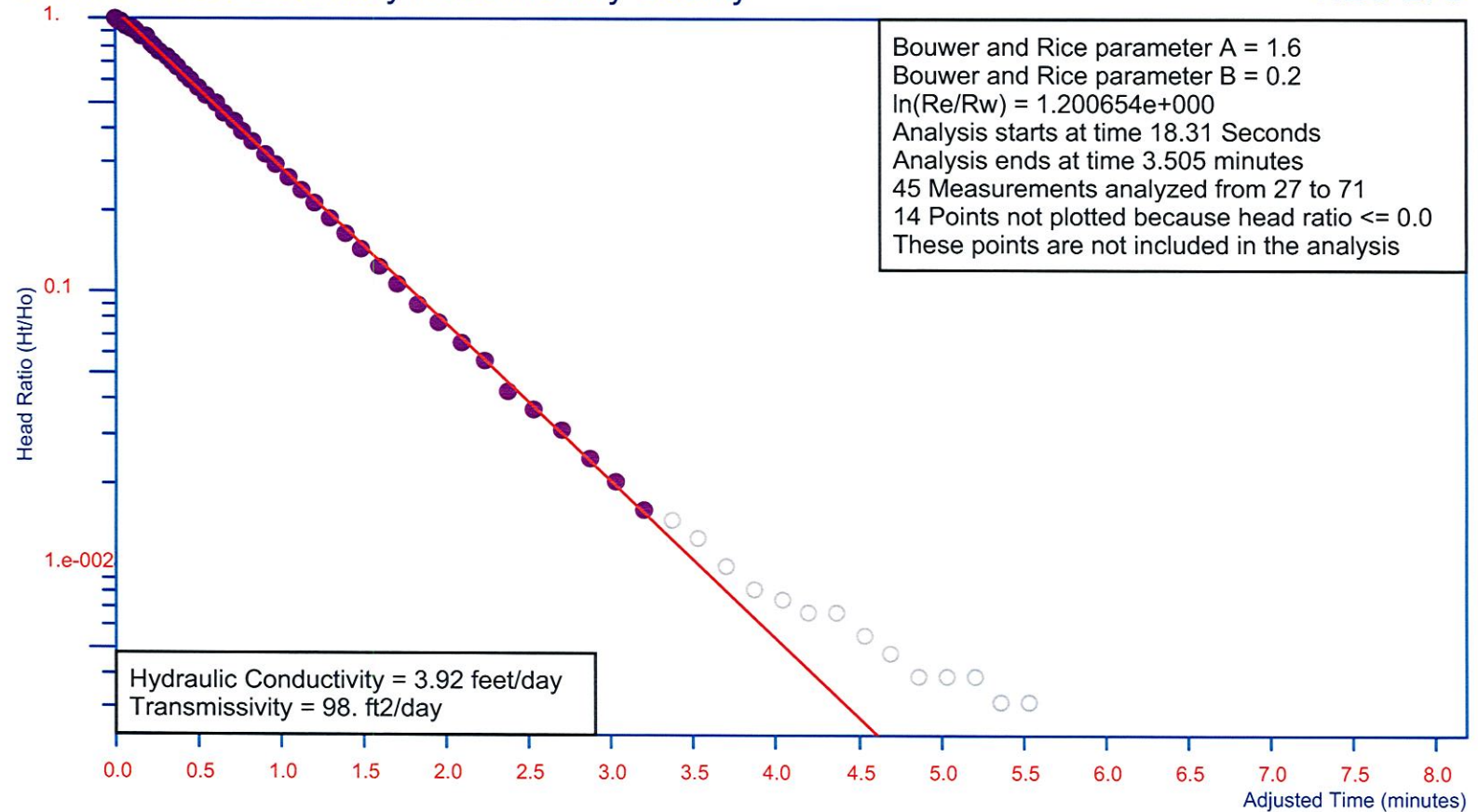


### C-139 Basin Study 4/13/10

### Bouwer and Rice Graph

South of West Boundary Road Hendry County

HES-27S



Project Number: 38617509 for SFWMD  
Analysis by Starpoint Software

Ho is 2.545 feet at 18.31 Seconds

**Bouwer and Rice Automatic Parameter Estimation**

C-139 Basin Study

Site Name: South of West Boundary Road  
 Location: Hendry County  
 Test Date: 4/13/10  
 Client: SFWMD  
 Project Number: 38617509  
 Import File: F:\HendryCountyWells\Slugs\April2010\HES-27S-W.txt

Well Label: HES-27S  
 Aquifer Thickness: 25. feet  
 Screen Length: 2. feet  
 Casing Radius: 1. inches  
 Effective Radius: 6. inches  
 Bouwer and Rice Parameter A: 1.6  
 Bouwer and Rice Parameter B: 0.2  
 Radius of Influence of Test: 1.661 feet

| Trial | Adjusted Time (minutes) | Head (feet) | Head Ratio | Hyd. Con. (feet/day) | Flow to Well (Gallons/Minute) |
|-------|-------------------------|-------------|------------|----------------------|-------------------------------|
| 27    | 0.                      | 2.545       | 0.8846     | --                   |                               |
| 28    | 1.66e-002               | 2.53        | 0.8794     | 1.069                | 0.147                         |
| 29    | 3.43e-002               | 2.501       | 0.8693     | 1.526                | 0.2075                        |
| 30    | 5.3e-002                | 2.465       | 0.8568     | 1.809                | 0.2424                        |
| 31    | 7.28e-002               | 2.426       | 0.8432     | 1.974                | 0.2604                        |
| 32    | 9.38e-002               | 2.383       | 0.8283     | 2.105                | 0.2727                        |
| 33    | 0.116                   | 2.335       | 0.8116     | 2.228                | 0.2829                        |
| 34    | 0.1395                  | 2.286       | 0.7946     | 2.309                | 0.287                         |
| 35    | 0.1643                  | 2.231       | 0.7755     | 2.406                | 0.2918                        |
| 36    | 0.1906                  | 2.195       | 0.7629     | 2.33                 | 0.2781                        |
| 37    | 0.2186                  | 2.08        | 0.723      | 2.77                 | 0.3133                        |
| 38    | 0.2483                  | 2.018       | 0.7014     | 2.805                | 0.3077                        |
| 39    | 0.2796                  | 1.943       | 0.6754     | 2.897                | 0.3061                        |
| 40    | 0.3128                  | 1.863       | 0.6475     | 2.993                | 0.3032                        |
| 41    | 0.348                   | 1.781       | 0.619      | 3.079                | 0.2981                        |
| 42    | 0.3853                  | 1.693       | 0.5885     | 3.176                | 0.2923                        |
| 43    | 0.4248                  | 1.604       | 0.5575     | 3.262                | 0.2845                        |
| 44    | 0.4666                  | 1.518       | 0.5276     | 3.324                | 0.2744                        |
| 45    | 0.511                   | 1.429       | 0.4967     | 3.39                 | 0.2634                        |
| 46    | 0.558                   | 1.343       | 0.4668     | 3.439                | 0.2511                        |
| 47    | 0.6078                  | 1.25        | 0.4345     | 3.511                | 0.2386                        |
| 48    | 0.6605                  | 1.163       | 0.4042     | 3.559                | 0.225                         |
| 49    | 0.7163                  | 1.077       | 0.3743     | 3.604                | 0.211                         |
| 50    | 0.7755                  | 0.991       | 0.3445     | 3.651                | 0.1967                        |
| 51    | 0.8381                  | 0.911       | 0.3166     | 3.679                | 0.1822                        |
| 52    | 0.9045                  | 0.827       | 0.2875     | 3.73                 | 0.1677                        |
| 53    | 0.9748                  | 0.752       | 0.2614     | 3.754                | 0.1535                        |
| 54    | 1.049                   | 0.676       | 0.235      | 3.792                | 0.1394                        |
| 55    | 1.128                   | 0.608       | 0.2113     | 3.809                | 0.1259                        |
| 56    | 1.212                   | 0.539       | 0.1873     | 3.844                | 0.1127                        |
| 57    | 1.3                     | 0.479       | 0.1665     | 3.855                | 0.1004                        |
| 58    | 1.394                   | 0.419       | 0.1456     | 3.884                | 8.847e-002                    |
| 59    | 1.494                   | 0.366       | 0.1272     | 3.897                | 7.755e-002                    |
| 60    | 1.599                   | 0.318       | 0.1105     | 3.904                | 6.75e-002                     |
| 61    | 1.71                    | 0.273       | 9.489e-002 | 3.918                | 5.815e-002                    |
| 62    | 1.829                   | 0.231       | 8.029e-002 | 3.939                | 4.947e-002                    |

South of West Boundary Road

|    |       |          |            |       |            |
|----|-------|----------|------------|-------|------------|
| 63 | 1.954 | 0.196    | 6.813e-002 | 3.939 | 4.197e-002 |
| 64 | 2.086 | 0.165    | 5.735e-002 | 3.936 | 3.531e-002 |
| 65 | 2.227 | 0.141    | 4.901e-002 | 3.9   | 2.99e-002  |
| 66 | 2.376 | 0.11     | 3.823e-002 | 3.969 | 2.374e-002 |
| 67 | 2.533 | 9.4e-002 | 3.267e-002 | 3.909 | 1.998e-002 |
| 68 | 2.7   | 7.9e-002 | 2.746e-002 | 3.861 | 1.658e-002 |
| 69 | 2.867 | 6.3e-002 | 2.19e-002  | 3.873 | 1.327e-002 |
| 70 | 3.033 | 5.2e-002 | 1.807e-002 | 3.85  | 1.089e-002 |
| 71 | 3.2   | 4.1e-002 | 1.425e-002 | 3.873 | 8.633e-003 |

Arithmetic Means:

Hydraulic Conductivity 3.28 feet/day  
 Transmissivity 82.01 ft<sup>2</sup>/day

Geometric Means:

Hydraulic Conductivity 3.164 feet/day  
 Transmissivity 79.09 ft<sup>2</sup>/day

Sensitivity Analysis:

Hydraulic Conductivity 3.54 feet/day  
 Transmissivity 88.5 ft<sup>2</sup>/day