# Step-drawdown test

**Well: TEB-1** **Municipality: Topusko** **Date: *16-Sep-21***

Table S A1

| Step | Q (l/s) | Q ($m^3/s$) | $P_{in}$ (bar) | $P_{fin}$ (bar) | Density ($kg/m^3$) | Δ (m) | Δ/Q ($s/m^2$) |
|---|---|---|---|---|---|---|---|
| 0 | 0.00 | ***0.0000*** | ***1.3992*** | 1.3992 | 981.46 | 0.00 | |
| 1 | 2.69 | ***0.0027*** | ***1.3992*** | 1.3819 | 981.46 | 0.18 | 66.87 |
| 2 | 3.12 | ***0.0031*** | ***1.3819*** | 1.3735 | 981.46 | 0.27 | 85.57 |
| 3 | 3.90 | ***0.0039*** | ***1.3735*** | 1.3718 | 981.46 | 0.29 | 73.09 |
| 4 | 6.95 | ***0.0070*** | ***1.3718*** | 1.3414 | 981.46 | 0.60 | 86.43 |
| 5 | 24.08 | ***0.0241*** | ***1.3414*** | 1.0598 | 981.46 | 3.52 | 146.38 |
| 6 | 23.41 | ***0.0234*** | ***1.3910*** | 1.0502 | 981.46 | 3.62 | 154.82 |
| REC | 0.00 | ***0.0000*** | ***1.0598*** | 1.3910 | 981.46 | 0.09 | |

Table S A2

| LINEAR REGRESSION Δ/Q = b + mQ | | | |
|---|---|---|---|
| m | b | **3686.34** | **62.78** |
| $se_m$ | $se_b$ | 340.06 | 4.83 |
| $r^2$ | $se_y$ | **0.97** | 7.77 |
| F | $d_f$ | 117.51 | 4.00 |
| $ss_{reg}$ | $ss_{res}$ | 7100.12 | 241.68 |

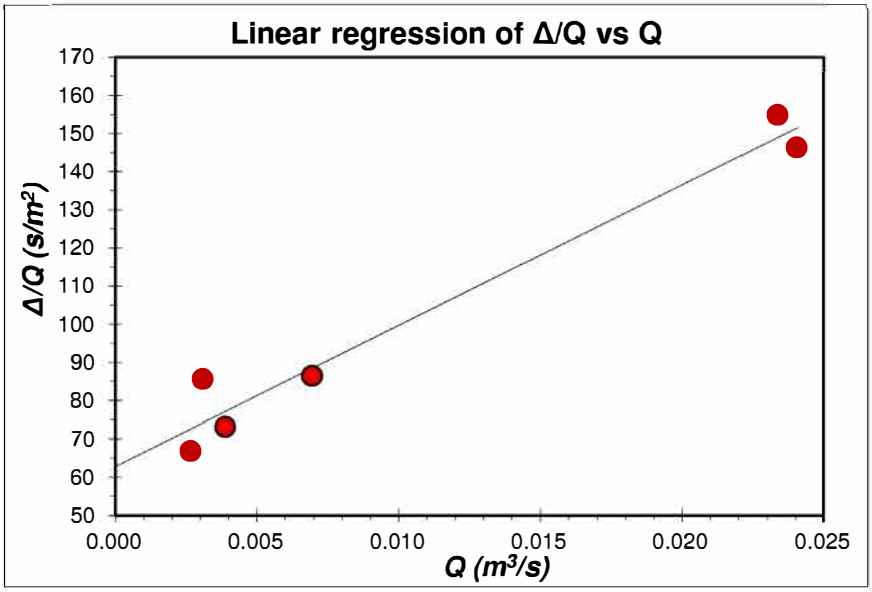


Table S A3

| $\Delta = (B+B')Q + CQ^2$ *B= aquifer loss; B' = linear well loss; C = well loss* | | | | | |
|---|---|---|---|---|---|
| **Δ** | **=** | **62.8** | **Q** | **+ 3686.3** | **$Q^2$** |
| **Field data** | | **Linear regression** | | | **Well efficiency** |
| **Q** ($m^3/s$) | **Δ** (m) | **(B+B')Q** (m) | **$CQ^2$** (m) | **Δ** (m) | (%) |
| 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| 0.003 | 0.180 | 0.169 | 0.027 | 0.196 | 86.36 |
| 0.003 | 0.267 | 0.196 | 0.036 | 0.232 | 84.52 |
| 0.004 | 0.285 | 0.245 | 0.056 | 0.301 | 81.37 |
| 0.007 | 0.601 | 0.436 | 0.178 | 0.614 | 71.02 |
| 0.024 | 3.525 | 1.512 | 2.138 | 3.649 | 41.43 |
| 0.023 | 3.624 | 1.470 | 2.020 | 3.490 | 42.11 |
| 0.000 | 0.085 | 0.000 | 0.000 | 0.000 | |

