Table 1. Titik koordinat geolistrik Desa Kedokan Gabus

|  |  |  |  |
| --- | --- | --- | --- |
| No | Titik Pengukuran  | BT |  LS |
| 1 | KGST-1 | 108o6'24.24" | 6o27'38.30" |
| 2 | KGST-2 | 108o6'21.22" | 6o27'42.25" |
| 3 | KGST-3 | 108o6'31.19" | 6o27'26.94" |
| 4 | KGST-4 | 108o6'26.97" | 6o27'22.15" |
| 5 | KGST-5 | 108o6'15.50" | 6o27'21.13" |
| 6 | KGST-6 | 108o6'33.90" | 6o27'35.39" |

Table 2. Titik koordinat geolistrik Desa Rancahan

|  |  |  |  |
| --- | --- | --- | --- |
| No | Titik Pengukuran  | BT |  LS |
| 1 | KGST-7 | 108o6'10.37" | 6o25'43.46" |
| 2 | KGST-8 | 108o6'10.39" | 6o27'32.99" |
| 3 | KGST-9 | 108o6'14.24" | 6o27'39.98" |
| 4 | KGST-10 | 108o6'13.78" | 6o27'44.48" |
| 5 | KGST-11 | 108o6'22.23" | 6o27'33.77" |
| 6 | KGST-12 | 108o6'15.67" | 6o27'33.88" |

Tabel 3. Nilai tahanan jenis batuan

|  |  |  |
| --- | --- | --- |
| Tahanan Jenis (Ω m) | Perkiraan Litologi | Sifat Hidrogeologi |
| < 250  | Tanah penutup | Permeabitas rendah |
| 13 – 1,000  | Pasir | Akuifer |
| < 15  | Lempung | Nir akuifer |
| 50 – 2,000  | Batu pasir | Akuifer |
| 60 – 400  | Breksi/lava |   |
|  >300  | Breksi Volkanik Padu |   |

Sumber : Todd, 1995

Tabel 4. Dugaan tahanan jenis batuan wilayah studi

| No | Tahanan Jenis | Perkiraan Litologi | Sifat Hidrogeologi |
| --- | --- | --- | --- |
| 1 | 5 - 7 Ωm | Tanah penutup (*top soil*) | Permeabitas rendah |
| 2 |  4 - 7 Ωm | Lempung pasiran | Akuifer |
| 3 | 8 – 12 Ωm | Pasir lempungan | Akuifer |
| 4 | 1 - 3 Ωm | Pasir (lempung pasiran/pasir lempungan) | Akuifer (air asin/payau) |
| 5 | 0.1 - 3 Ωm | Lempung/tufaan | Nir akuifer |
| 6 | 14 – 30 Ωm | Pasir | Akuifer |

Tabel 5. Nilai parameter persamaan *Darcy*

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Akuifer Dangkal | Akuifer Dalam | Satuan |
| Konduktivitas hidrolik (*K*) | 20 | 20 | m/hari |
| Ketebalan lapisan (*b*) | 11 | 34.50 | m |
| Lebar penampang akuifer (*W*) | 8,976.19 | 8,976.19 | m |
| Beda kedalaman muka air tanah (*δh*) | 621 | 621 | m |
| Panjang lintasan air tanah (*δL*) | 38,701 | 38,701 | m |

Tabel 6. Prediksi potensi cadangan air tanah

|  |  |  |
| --- | --- | --- |
| Jenis Akuifer | Prediksi Potensi Cadangan Air Tanah (m3/hari) | Prediksi Potensi Cadangan Air Tanah (m3/detik) |
| Akuifer Dangkal | 31,687.2 | 0.37 |
| Akuifer Dalam | 99,382.6 | 1.15 |