



MATRIX **NEW** WORLD

Engineering Progress

Well Design, Construction Management & Testing

Matrix knows the drill.

Matrix New World Engineering (Matrix) is a full-service hydrogeological and environmental consulting firm. With more than 25 years of experience in groundwater hydrology, we offer a full complement of well-related services. Our professional engineers, registered geologists, and hydrogeologists are experienced in the siting, permitting, drilling, installation, and testing of all production well types, ranging from small diameter wells completed in bedrock to large diameter municipal wells completed in basin fill deposits more than 1,500 feet deep. Most projects require well siting studies and preparation of detailed technical well drilling and testing specifications for implementation by the drilling contractor.

Matrix professionals have managed hundreds of well installation projects throughout Arizona, using drilling methods that best meet the site-specific hydrogeologic conditions. Methods include dual rotary, reverse circulation, direct mud/air circulation, downhole hammer, cable-tool, and sonic. In addition, Matrix routinely integrates Arizona Department of Water Resources (ADWR) water well and hydrogeologic databases when siting and preparing preliminary/conceptual well designs. In the field, our project teams employ a variety of surface and downhole geophysical techniques to aid in the location and design of production wells. Surface methods include gravity, magnetic, and CSAMT and NSMAT surveys. Downhole methods include resistivity, gamma, neutron, sonic, temperature, caliper, conductivity, and flow (spinner) logs.

Matrix clients have included the State of Arizona, municipalities, Native American Tribal governments, utility companies, law firms, mining companies, master planned communities, engineering firms, private businesses, and individuals.

Services provided

- Well Siting Analyses
- Well Permitting
- Well Impact (spacing) Investigations
- Well Design & Installation – Production, Exploration, Monitor, & Recharge Wells
- Well Construction Oversight
- Lithologic & Geophysical Logging
- Zonal Groundwater Sampling
- Aquifer Testing & Analysis
- Spinner Flow Meter Surveys & Depth-specific Sampling
- Well Rehabilitation
- Well Abandonment

Contact

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Certified WBE/DBE

