



The AzWSC has specialized expertise in land-surface and borehole geophysical survey methods used to characterize local hydrologic conditions, including monitoring groundwater storage and aquifer mapping. The USGS owns a wide variety of land-surface based and borehole geophysical equipment. The following is a partial list of AzWSC geophysical surveying capabilities:

Land-Surface Methods

Frequency-Domain Electromagnetic Methods

Time-Domain Electromagnetic Methods

Electrical Resistivity Methods

Detailed Shallow Surveys

Azimuthal Surveys for Fracture Mapping

Gravity Methods

Absolute and Relative Gravimetry

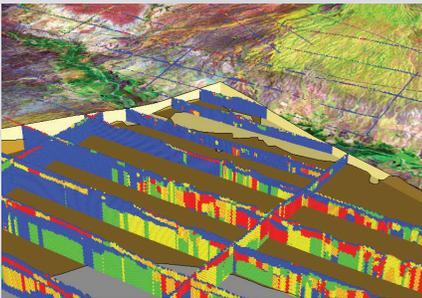
Depth to Bedrock Mapping

Repeat Microgravity Surveys

- **Groundwater Storage Monitoring**
- **Estimates of Aquifer Storage Properties**

Seismic Refraction Methods

Ground Penetrating Radar



Borehole Methods

Caliper

Electromagnetic Flow Meter

Electromagnetic Induction

Natural Gamma Radiation

Fluid Resistivity

Temperature

Magnetic Susceptibility

Borehole Deviation