

NEW USGS PUBLIC WEB-BASED TOOL FOR VIEWING AND DOWNLOADING GEOPHYSICAL LOG DATA

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GeoLog Locator is a new, publicly available online resource tool that allows users to view and download geophysical logs. Released in September 2017 (<https://www.usgs.gov/news/borehole-geophysical-logs-now-easily-accessible-through-new-usgs-online-map>), the interface serves logs collected and compiled by the USGS, dating back to 1958. Since 2000, the Water Mission Area of the USGS has required internal archiving of geophysical logs and now many of these logs are available to the public for the first time. Prior to the release of this application, scientists and the public were required to contact the USGS individually to access logs, typically within a particular state.

Within the GeoLog Locator web application interface, users can zoom and select individual sites (boreholes or wells) having geophysical logs, or choose specific states, counties, or territories. A defined geographic bounding area may also be used to search for logs. Additional search criteria includes: log category (generally logging tools used); file format (for example, Log Ascii Standard, portable document format, and image (jpg/bmp) logs); collection date; minimum depth; and USGS National Water System Information identification number or station name. Once the user has selected site locations, a table will display all available log types for the given sites, along with dates of collection and starting/ending depths. A wide range of borehole log types available in the web application include: acoustic, caliper, electric, electromagnetic, fluid, lithologic, nuclear, optical, well construction, or a combination or composite of these types. Users have the option to download all logs for the selected site, or only individual logs of interest. Downloading all logs for a site includes a table of attributes and links to each log for download. As new logs become available, they will be added to the database.