

Select Well Locations and Associated Well Data

Compiled by Will Junkin, 2020

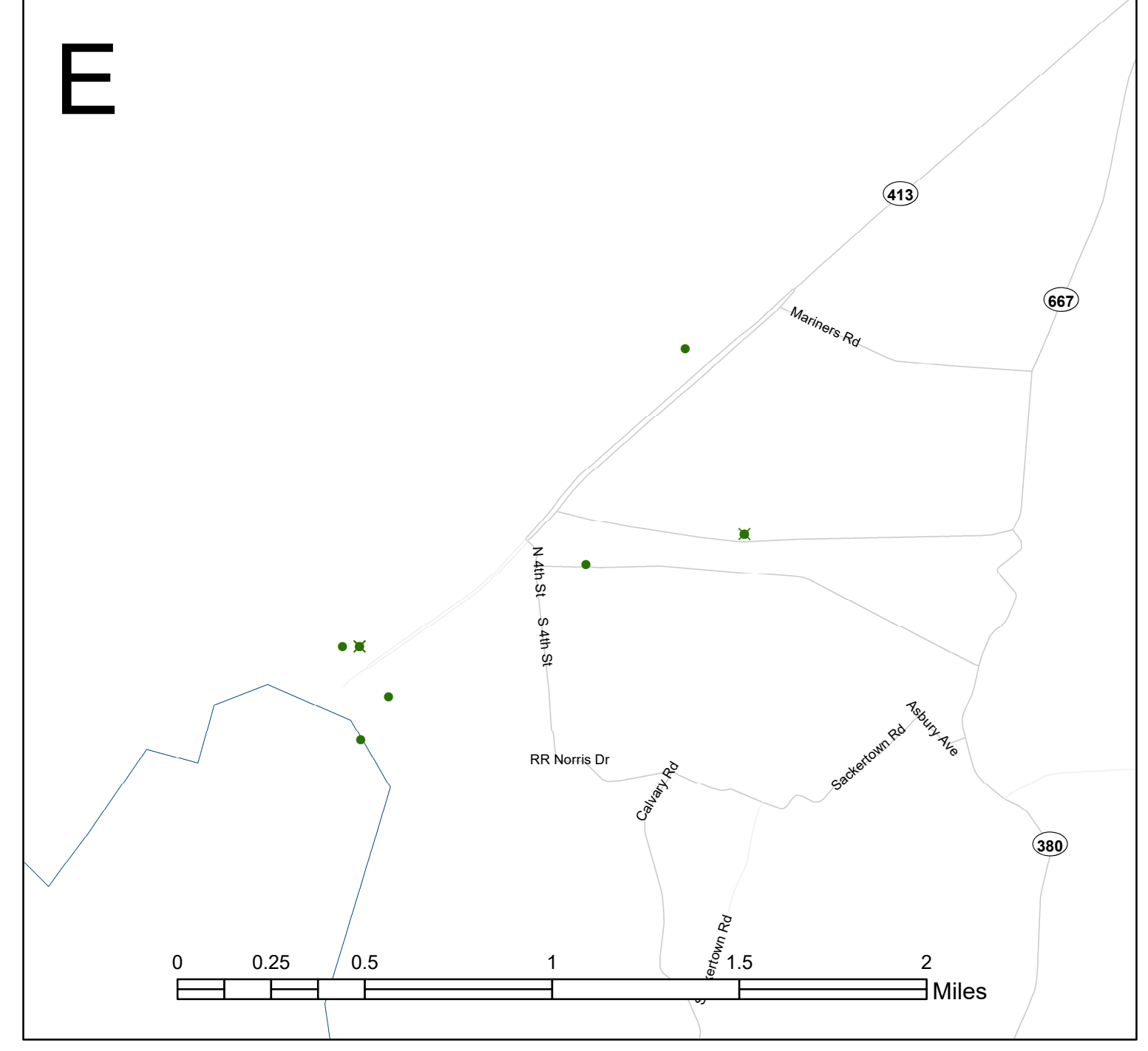
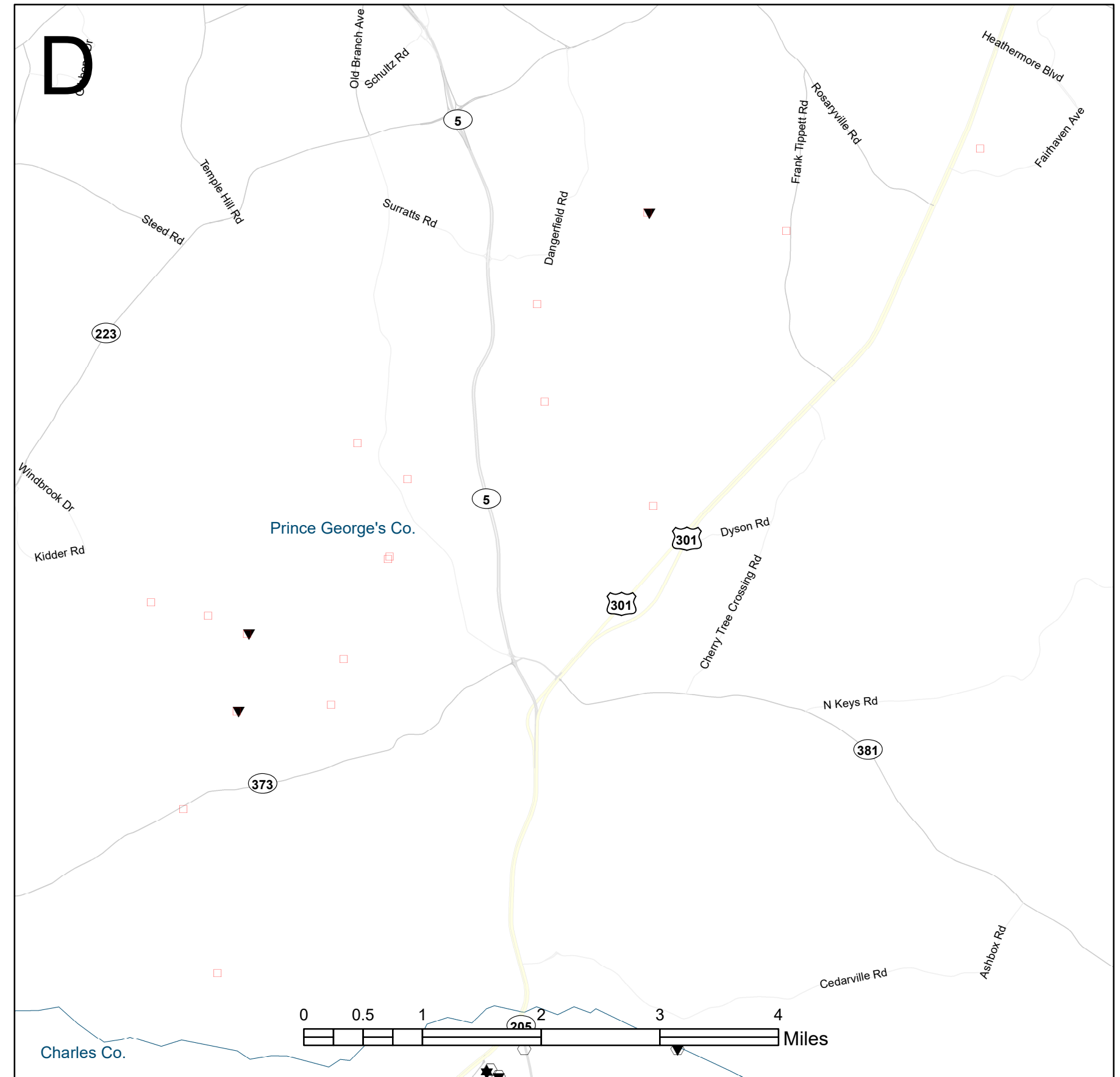
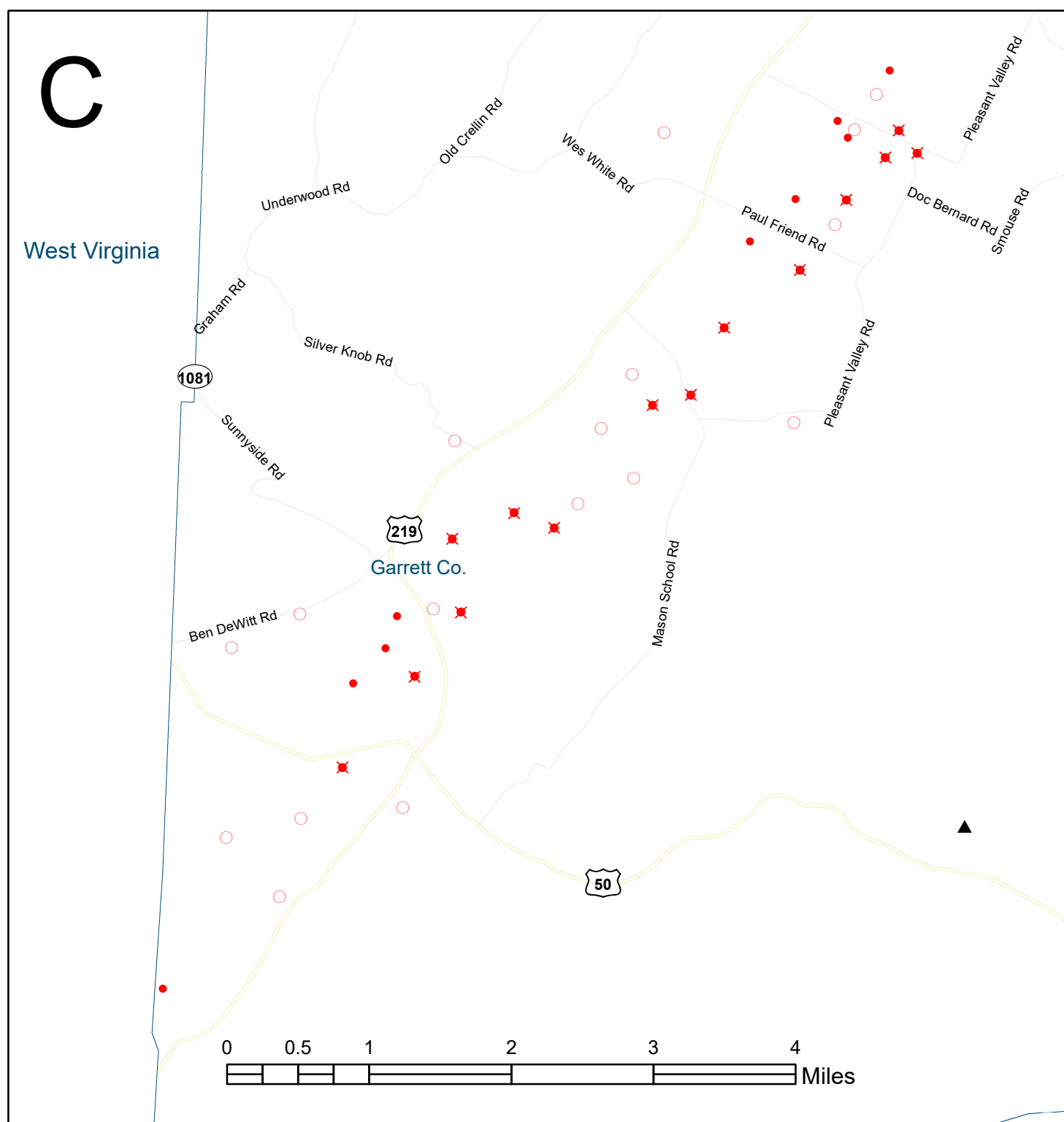
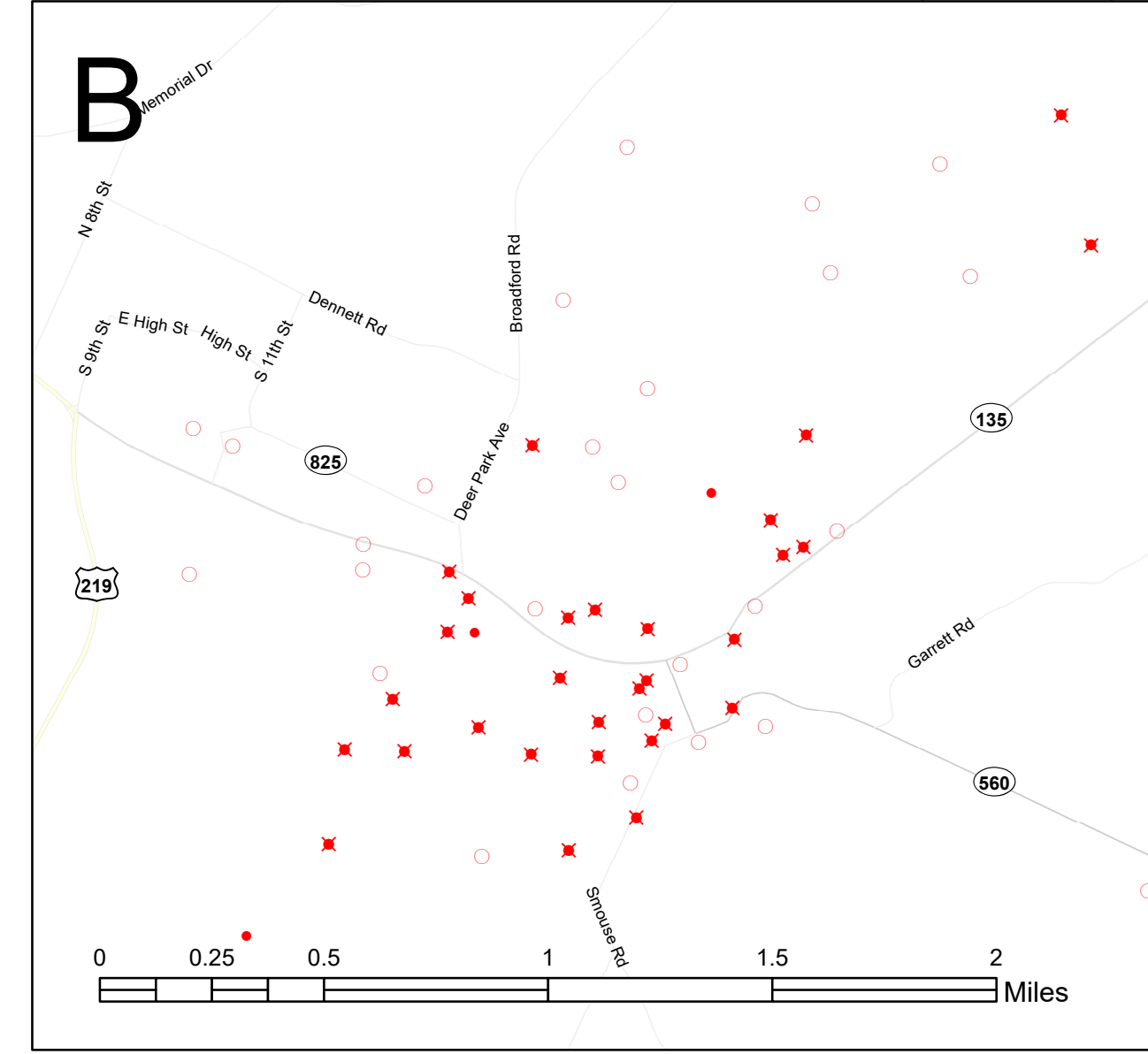
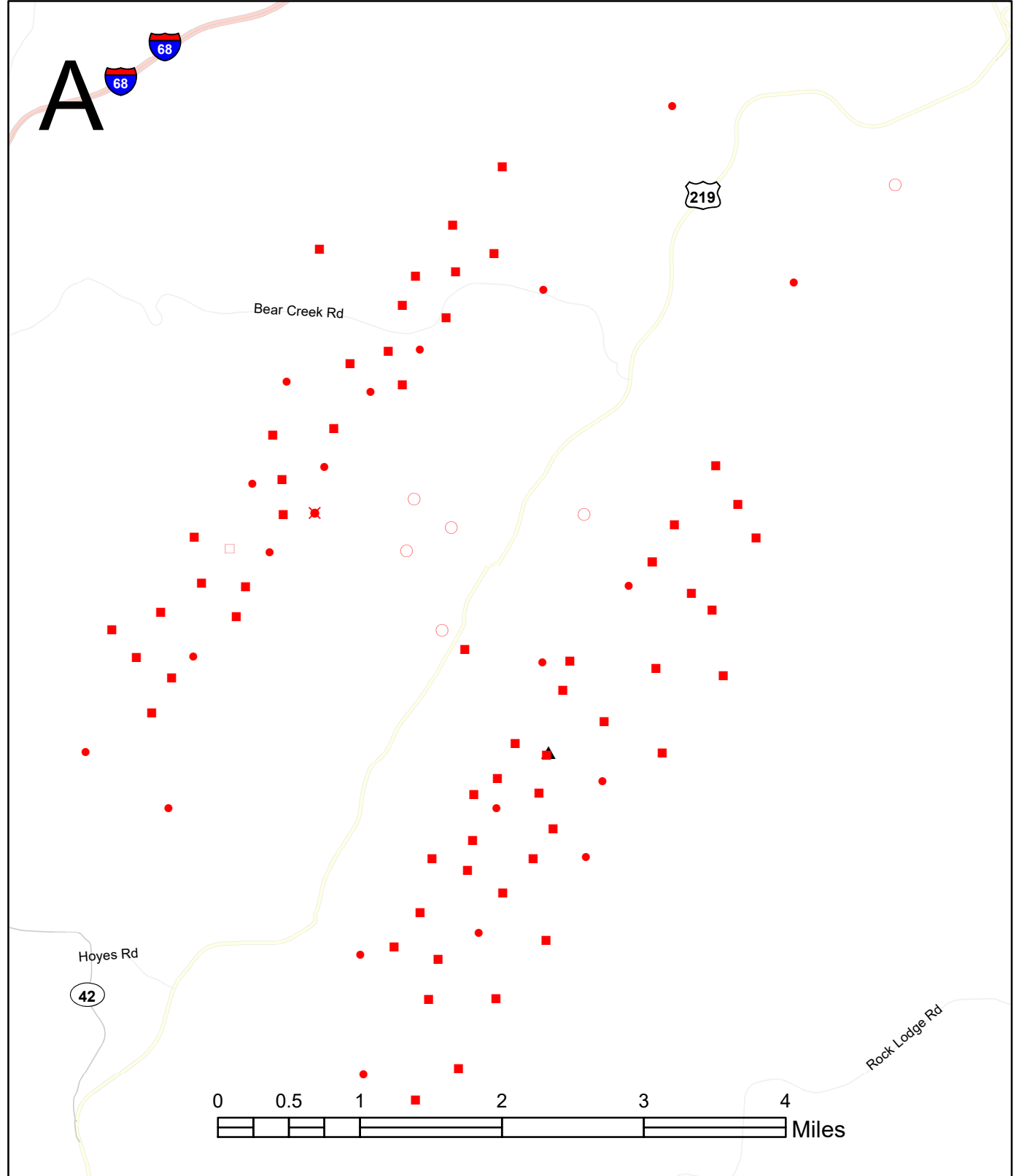
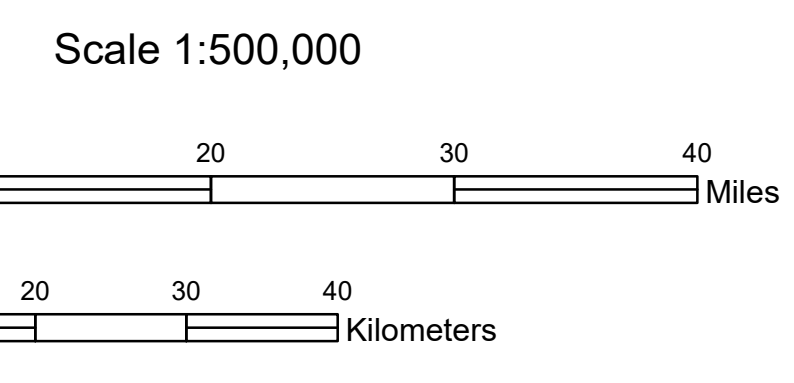
This map represents boreholes that have been catalogued as part of three separate efforts undertaken by the Maryland Geological Survey (MGS). The first group of boreholes is catalogued in the MGS Basic Data Report No. 5 (BDR 5), "Deep Wells of Maryland" (Edwards, 1970). This report contains a catalog of 349 wells drilled in Maryland prior to 1970, including every oil and gas well in the state, every water well deeper than 1000 feet, shallow water wells that provided important stratigraphic information, and the deepest well in each county. The second group of boreholes is catalogued in MGS Basic Data Report No. 11 (BDR 11), "Garrett County water-well records, chemical-quality data, ground-water use, coal test-hole data, and surface-water data, with a section on gas-well records" (Nutter et al., 1980). The third group of boreholes includes those boreholes that so far have been inventoried in the MGS Drill Cuttings Collection and Land-Based Core Collection, which together include all MGS-owned cuttings and cores from boreholes throughout Maryland.

A contoured raster surface was generated using a natural neighbor interpolation of points of known elevation located along the Fall Line (the approximate location of the eastern edge of the outcrop of pre-Cretaceous basement rock) and of depth-to-bedrock data obtained from boreholes that were drilled through coastal plain sediments and penetrated pre-Cretaceous basement rock.

A geodatabase associated with the digital map houses borehole data including latitude, longitude, date drilled, total depth, formation/unit names and depths, formations encountered, and depth of formations encountered. The complete digital map and associated geodatabase are available for download at the Maryland Geological Survey homepage.

References
 Andreason, D., Staley, A., and Achmad, G., 2013. Maryland Coastal Plain Aquifer Information System: Hydrogeologic Framework. Maryland Geological Survey Open File Report 13-02-00, 121 p.
 Edwards, J. E., 1970. Deep wells of Maryland. Maryland Geological Survey Basic Data Report #5, 167 p.
 Federal Geographic Data Committee [prepared for the Federal Geographic Data Committee by the U.S. Geological Survey], 2005. FGDC Digital Cartographic Standard for Geologic Map Symbolization. Reston, Va., Federal Geographic Data Committee Document Number FGDC-SD-03-2006, 299 p., 2 plates.
 Hansen, H. and Edwards, J. E., 1986. The Lithology and Distribution of Pre-Cretaceous Basement Rocks Beneath the Maryland Coastal Plain. Maryland Geological Survey Report of Investigations 44, 27 p.
 NASA Jet Propulsion Laboratory, 2014. NASA Shuttle Radar Topography Mission United States 1 arc second, Version 3. NASA EOSDIS Land Processes DAAC, USGS Earth Resources Observation and Science (EROS) Center, Sioux Falls, South Dakota (<https://srtm.usgs.gov/>).
 Nutter, L. J., Singsal, M. J., Knobel, L. L., Schwarz, K. A., and Edwards, J., Garrett County water-well records, chemical-quality data, ground-water use, coal test-hole data, and surface-water data, with a section on gas-well records. Maryland Geological Survey Basic Data Report #11, 114 p.
 Raper, R. P. and Cieslewski, E. T., 2004. Physiographic Map of Maryland. Maryland Geological Survey, 1:250,000 scale (MATFINDER) Database (MTDB). Washington D.C.: U.S. Bureau of the Census, 2017.
 U.S. Geological Survey National Cooperative Geologic Mapping Program, 2020. GeMapS (Geologic Map Schema)—A standard format for the digital publication of geologic maps: U.S. Geological Survey Techniques and Methods, book 11, chap. B10, 74 p.

- Explanation**
- gas well - producer
 - gas or oil test - dry hole
 - gas storage well
 - gas storage test well
 - deep water well
 - deep stratigraphic test
 - gas well - abandoned
 - water well - abandoned
 - ▲ rock core available
 - ▼ sediment core available
 - ★ rock & sediment cores available
 - cuttings available



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