

A Geologic Play Book for Utica Shale Appalachian Basin Exploration

Abstract

Introduction and Purpose Utica Shale Play Book Study Website

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The Appalachian Oil and Natural Gas Research Consortium (AONGRC) and the West Virginia University Shale Research, Education, Policy and Economic Development Center are pleased to present the Utica Shale Appalachian Basin Exploration Consortium website. This website contains research results and data collected as part of a two-year, industry-sponsored consortium facilitated by West Virginia University's National Research Center for Coal and Energy (NRCCE). Research team members include geoscientists from the Kentucky, Ohio, Pennsylvania and West Virginia geological surveys, Washington University, Smith Stratigraphic LLC and the U.S. Department of Energy National Energy Technology Laboratory.

The Utica Shale Consortium website contains three main sources of data: the project play book, well file document search and interactive mapping application. The project play book, a final technical report of project results, contains chapters on drilling activity and production, lithostratigraphy, subsurface mapping and log analysis, core studies, inorganic and source rock geochemistry, reservoir porosity and permeability and resource assessments. Datasets utilized for each of these research topics are available for download via a well file document search. The well document database includes a comprehensive repository of more than 2500 digitized or scanned well logs as well as source rock analyses, scanning electron microscope (SEM) images, X-ray computed axial tomography (commonly known as "CT") scans and analyses, rock mechanics tests, isotope data and X-ray diffraction (XRD) reports. These data are searchable by any combination of analysis type, API number, state and/or county. Finally, data are also accessible via an interactive mapping application created in Esri ArcGIS for Server. The interactive map enables users to search and retrieve information based on geographic location and links to the project data repository. In addition, map layers are published as ArcGIS services to ensure ease of access. Please visit www.wvgs.wvnet.edu/utica or <http://karl.nrcce.wvu.edu> to access project content.

Citation

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