THE UTAH CORE RESEARCH CENTER

Utah's Largest Collection of Well Cores and Cuttings for Petroleum Industry and Academic Research, Workshops, and Short Courses

The UCRC is fortunate to have high-quality stratigraphic research core collections ideally suited for workshop and classroom studies. Highlights include the remarkably detailed fluvial-dominated deltaic sands of the Cretaceous Ferron Sandstone of east-central Utah, shallow-shelf carbonates of the Pennsylvanian Paradox Formation of southeastern Utah, eolian sandstones of the Jurassic Navajo and Nugget formations of northern and central Utah, and complete core intervals through the Tertiary Green River Formation in the Uinta Basin of eastern Utah. The UCRC collection is ideally suited to supply data for projects including (1) facies, diagenetic, source-rock and biomarker studies, (2) oil and gas reservoir characterization, (3) metallic mineral investigations, and (4) coal resource evaluations.

by

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The Utah Core Research Center (UCRC) offers students, educators, and other researchers access to Utah's most comprehensive collection of geological specimens for thesis and academic research, workshops, and classroom studies. UCRC holdings include subsurface samples from more than 3600 wells, core from more than 800 wells, samples from major tar sand and oil shale deposits, and type oils from all the producing formations in the state. The UCRC collection also contains representative samples from Utah's coal mines, metallic mineral deposits, industrial rocks and minerals, geothermal wells, sediment and brine from Great Salt Lake, and surface stratigraphic sections.

The UCRC has upgraded and replaced scientific equipment to provide technical support for research activities using the geologic collection. Analytical data, geophysical logs, and reports by donors may also be available. Destructive testing is allowed with restrictions and advanced permission. The UCRC is organized to quickly adapt to a variety of client needs such as workshops, classrooms, large-scale sampling, digital imaging, and other research programs.

Utah Geological Survey
UTAH CORE RESEARCH CENTER

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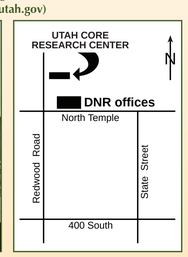
Utah's Public Core & Cutting Repository



THE UTAH GEOLOGICAL SURVEY CREATES, INTERPRETS, AND PROVIDES INFORMATION ABOUT UTAH'S OIL AND GAS RESOURCES TO PROMOTE SAFE, BENEFICIAL, AND WISE USE OF THE LAND

Utah Core Research Center Resource Holdings

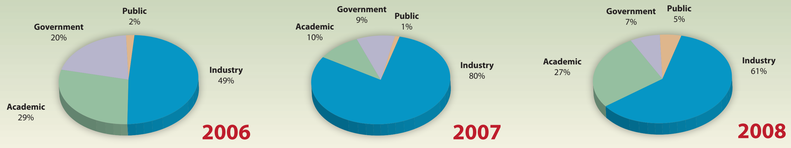
Petroleum Resources

- 3.20 x 10^5 Feet of Core from 800 Wells
- 12.49 x 10^6 Feet of Cuttings from 3600 Wells
- Type Oil Library
- Analytical Data, Geophysical Logs, and Reports

Representative Samples

- Major Oil Shale and Tar Sand Deposits
- Major Coal Seams
- Metallic Mineral Deposits
- Industrial Rocks and Minerals
- Geothermal Wells
- Great Salt Lake Sediment and Brine

Utah Core Research Center Usage



- Petroleum Industry Research
- Workshops
- Geologic Short Courses
- Thesis Work and Advanced Academic Research Projects

Project Types

- Facies analysis
- Diagenetic studies
- Source rock evaluation
- Biomarker determination
- Oil and Gas Reservoir Characterization Studies

Recent Mineral Lease Funded Projects

- *Shale-Gas Reservoirs of Utah: Survey of an Unexploited Potential Energy Resource*, Steven Schamel, GeoX Consulting Inc., Salt Lake City, Utah.
- *Hydrocarbon Potential of Pennsylvanian Black Shale Reservoir, Paradox Basin, Southeastern Utah*, Robert Bereskin and John McLennan, Bereskin and Associates.
- *Central Utah Hingeline Play*, Wolverine Oil and Gas and Thomas H. Morris, Brigham Young University Department.

Current Grant-Funded Projects

- *Paleozoic Shale-Gas Resources of the Colorado Plateau and Eastern Great Basin, Utah: Multiple Frontier Exploration Opportunities*, Research Partnership to Secure Energy for America
- *UCRC National Core Metadata Catalog* - National Geologic and Geophysical Data Preservation Program (NGGDPP)
- *UCRC Core Collection Inventory* - National Geologic and Geophysical Data Preservation Program (NGGDPP)
- *Uinta Basin Saline Water Disposal Project* – In depth study of the Birds Nest Aquifer in the Tertiary Green River Formation
- *PUMP (Preferred Upstream Management Practices)* - Major Oil Plays in Utah and Vicinity (Type Cores).
- *Mississippian Leadville Limestone Exploration Play* - Utah and Colorado: Exploration Techniques and Studies for Independents with Eby Petrography
- *Aneth Field CO2 Sequestration Demonstration Project* - Southwest Regional Partnership on Carbon Sequestration

Core Workshops

2008 UCRC Workshops, Mini-Workshops, and Core Presentations

- 13 Industry Workshops
- 9 Academic Workshops
- 1 UGS Sponsored

2008 Workshops

AAPG	Shale Gas Resources of Utah
BYU	The Cretaceous Ferron Sandstone, Muddy Creek Core
BYU	Advanced Clastic Sedimentology Workshop
BYU	Aneth Field Paradox FM. and Covenant Field Navajo Sandstone
Entheos Academy	Introduction to Petroleum Geology
Imperial College	Advanced Clastic Sedimentology
Kennesaw Mtn.	Geology and Paleogeographic Interpretation mini-core workshop
Montana State Univ.	Advanced Sequence Stratigraphy and Sedimentology Field Course
Nautilus, USA,	Continental, Deltaic & Shoreline Clastic Systems
Nautilus, USA	High Resolution Sequence Stratigraphy
Nautilus, USA	Reservoir Sedimentology and Stratigraphy of Continental Clastic Systems
Oxy Petroleum	Occidental Petroleum Reservoir Characterization Workshops
PTTC/RMAG	Aneth Core Mini-Workshop
PTTC/RMAG	Facies, Diagenesis, & Hydrothermal Alteration of the Miss. Leadville Ls.
RMS/AAPG/COGA	Potential Shale Gas Resources in Utah
Schlumberger	Clastics for Borehole Geologists
Utah Tax Comm.	Petroleum Geology of Utah Core