Beverly Blakeney. DeJarnett

Professional Summary

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Professional Preparation

Academic Background

M.S. Geology, The Pennsylvania State University, 1986

B.S. with Honors Geology, The University of Wyoming, 1983

Ph.D. In Progress, Geology, The University of Alberta, Edmonton,

Professional Appointments

Present Position: Research Associate/Curator, The University of Texas at Austin, Bureau of Economic Geology, Houston Research Center (February 2003 - Present). Oversee BEG core collection and provide patrons with technical expertise on the collection. In charge of building HRC endowment through donations of rock material and cash.

Owner, BDB Consulting (1992 - Present). Provide customized sedimentologic, core, and petrographic analyses to clients; studies include Cretaceous tight gas sandstones, SW Wyoming; Jurassic Cotton Valley carbonates; Paleozoic carbonates, NE New Mexico; Pennsylvanian clastics, East Texas Basin; Pennsylvanian and Mississippian of western Kansas and SE Colorado. Design and lead industry field trips on (1) practical applications of sequence stratigraphy to hydrocarbon exploration and production, Green River Basin, Wyoming; (2) sedimentology of Cretaceous reservoirs, Wyoming/Utah Overthrust Belt; and (3) sedimentology of Cretaceous reservoirs of south-central Wyoming.

Geologist, Union Pacific Resources Company (1986 - 1992). ROCK LAB (1990-1992) Provided comprehensive core and petrographic analyses, as well as innovative technical advice to staff; generated diagenetic and sedimentologic study of the Almond Formation, Green River Basin, Wyoming; documented regional depositional setting, reservoir heterogeneity, and diagenetic history of the Frontier Formation, Green River Basin, Wyoming; documented regional depositional setting, reservoir heterogeneity, and diagenetic history of the Frontier Formation, Green River Basin, Wyoming; initiated core and petrographic analysis of shallow Austin Chalk lithofacies, Texas; documented importance of microscopic and macroscopic fractures in overpressured reservoirs of Green River Basin, Wyoming; mapped regional fracture patterns, described fractures in core and thin sections, and integrated results with production data; introduced low-cost petrographic technique that allowed quantification of the producibility of fractured reservoirs and tight gas reservoirs. EXPLORATION/DEVELOPMENT DEPARTMENTS (1986-1990) Developed 13 development prospects and documented complex reservoir heterogeneity through detailed sedimentological and diagenetic analysis of the Morrow Formation, Stateline Trend, Colorado and Kansas--work resulted in development drilling and modification of existing plan of depletion; integrated log, core, petrographic, and geochemical analyses into regional depositional and sequence stratigraphic analysis of the Morrow Formation--work resulted in significant expansion of prospective area; recognized that an unconventional, but potentially highly productive, geologic trapping configuration existed in an area previously considered nonprospective by company; coordinated exploration team's efforts, which resulted in significant acreage acquisition program (Green River Basin, Wyoming); proposed and drilled several successful development wells, Frontier/Dakota Formations, Green River Basin, Wyoming.

Professional Registrations and Certificates

Texas Board of Professional Geoscientists, Geology, #6033

Continuing Education Courses Taken

Applied Ichnology: the Use of Trace Fossils in Sequence Stratigraphy, Exploration, and Production: University of Alberta (George Pemberton) and Simon Fraser University (James MacEachern), AAPG/SEPM Annual Meeting, Houston, Texas, April 2006

Giant Hydrocarbon Reservoirs of the World: from Rocks to Reservoir Characterization and Modeling: Chevron (Mitch Harris) and ExxonMobil (Jim Weber) Core Workshop, AAPG/SEPM Annual Meeting, Houston, Texas, April 2006

Surface Expression of Faults in the Houston Area: Houston Museum of Natural Science, Houston, Texas, January 2006

Mesozoic Lakes of the Colorado Plateau: Geological Society of America, Utah, October 2005

The Geology of Central Texas: DOSECC, Austin, Texas, June 2005

Areas of Expertise

Areas of Expertise

Reservoir characterization and delineation through integration of sedimentologic, petrographic, and core analyses

Tight gas sandstones and fractured reservoirs, as well as conventional siliciclastic and carbonate units

Awards

Awards and Honorary Societies

Phi Beta Kappa, 1983 - 2003

Phi Sigma Iota, 1983 - 2003

SEPM Excellence of Oral Presentation Award, AAPG/SEPM Annual Meeting, 1986

Mortar Board, 1983

S. H. Knight Scholarship for Outstanding Undergraduate in Geology, 1983

Service

External Committees Participation

Chair, Information Management Initiative, Bureau of Economic Geology, 2005 - present

Member, Outreach and Education Committee, DOSECC, 2004 - present

Member, Publications Task Force, Bureau of Economic Geology, 2004 - present

Chair, Gulf Coast Section, Poster Session, SEPM (Society for Sedimentary Geology), 2008

Member, Headquarters and Business Committee, SEPM (Society for Sedimentary Geology), 2005 - 2008

Vice-President, SEPM, Gulf Coast Section, 2006 - 2007

Member, Subcommittee, National Geological and Geophysical Data Preservation Federal Advisory Committee, 2006

Organizer, Annual Meeting, Austin, Texas, DOSECC, 2005

Organizer, Grand Opening, Houston Research Center, 2004

Organizer, Workshop on "Curation of Terrestrial Cores, Samples, and Collections", National Science Foundation, 2004

Member, Awards Committee, SEPM (Society for Sedimentary Geology), 2001 - 2004

Outreach Activities

Blue Lagoon Quarry (Frio/Vicksburg sands): presented as co-leader of field trip for SE Texas (Region VI) Science Teachers, Huntsville, Texas, May 13, 2006.

Rocks don't lie: the importance of rocks in the petroleum industry: presented at CAST (Conference for the Advancement of Science Teaching, Houston, Texas, October 2005.

Teaching and Advising

Continuing Education Courses Taught

Siliciclastic lithofacies in core: presented to Halliburton, Houston, Texas, March 2005.

Examples of siliciclastic and carbonate lithofacies in core: tying the cores to imaging logs: short course/core workshop presented to Halliburton at Houston Research Center, Houston, Texas,

December 2004.

Seminar on deep-water lithofacies in core, Eocene Wilcox Formation, Lavaca County, Texas: presented to oil company representatives at the Houston Research Center, Houston, Texas, November 2004.

Field Trips Leadership

Co-Leader, Stratigraphy of continental clastic systems: presented to Nautilus, Wyoming, Utah, October 2007.

Co-Leader, Predicting siliciclastic reservoirs using applied sequence stratigraphy: understanding the fundamental drivers of basin fill architecture: presented to American Association of Petroleum Geologists, Wyoming, Utah, June 2007.

Co-Leader, Stratigraphy of continental clastic systems: presented to Nautilus, Wyoming, Utah, June 2007.

Co-Leader, Stratigraphy of continental clastic systems: presented to Nautilus, Wyoming, Utah, October 2006.

Co-Leader, Predicting siliciclastic reservoirs using applied sequence stratigraphy: understanding the fundamental drivers of basin fill architecture: American Association of Petroleum Geologists, Wyoming, Utah, June 2006.

Co-Leader, Stratigraphy of continental clastic systems: presented to Nautilus, Wyoming, Utah, June 2006.

Co-Leader, Practical applications of sequence stratigraphy applied to siliciclastic depositional systems: presented to oil company representatives, Wyoming, Utah, May 2006.

Co-Leader, Practical applications of sequence stratigraphy applied to siliciclastic depositional systems: oil company representatives, Wyoming, Utah, September 2005.

Leader, Sequence stratigraphy of continental clastic deposits: week-long field trip presented to various oil-company representatives, Houston, Texas, October 2004.

Leader, Field trip through Houston Research Center: for 50 kindergarten through 5th grade students, Conroe Baptist Church Science Camp, Houston, Texas, June 2004.

Leader, Field trip through Houston Research Center: for elementary students from local Catholic school, Houston, Texas, May 2004.

Co-Leader, Rocks don't lie--the importance of cores and samples in the petroleum industry: Houston Geological Society, Houston, Texas, October 2003.

Presentations

Presentations

Rocks and fossils: discovering geology: presented to more than 200 elementary school children—several presentations per year, The Woodlands and Houston, Texas, February 2008.

Rocks and fossils: discovering geology: presented to more than 200 elementary school children—several presentations per year, The Woodlands and Houston, Texas, February 2007.

Rocks and fossils: discovering geology: presented to more than 200 elementary school children—several presentations per year, The Woodlands and Houston, Texas, February 2006.

BEG, UT Austin, core and sample repositories: presented at Geological Society of America Annual Meeting, Salt Lake City, Utah, October 2005.

Bureau of Economic Geology, The University of Texas at Austin, sample and log repositories: presented to Houston Gem and Mineral Society, Houston, Texas, October 2005.

Rocks and fossils: discovering geology: presented to more than 200 elementary school children—several presentations per year, The Woodlands and Houston, Texas, February 2005.

Bureau of Economic Geology, The University of Texas at Austin, core and sample repositories: invited talk presented at 5th International Meeting, National Geoscience Data Repositories, USGS, Reston, Virginia, September 2004.

Bureau of Economic Geology, The University of Texas at Austin, core and sample repositories: presented at DOSECC Annual Meeting, Rutgers University, Rutgers, New Jersey, June 2004.

Field trip to HRC: Conroe Baptists Church Science Camp, Houston, Texas, June 2004.

Field trip to HRC: St. Mary's School, Houston, Texas, May 2004.

The Houston Research Center?its mission and history: presented during National Science Foundation Workshop on "Curation of Terrestrial Cores, Samples, and Collections", Houston, Texas, May

2004.

Core and cuttings: an extraordinary resource: presented at the American Association of Petroleum Geologists Annual Meeting, Dallas, Texas, April 2004.

Rocks and fossils: discovering geology: presented to more than 200 elementary school children—several presentations per year, The Woodlands and Houston, Texas, February 2004.

Rocks and fossils: discovering geology: presented to more than 200 elementary school children—several presentations per year, The Woodlands and Houston, Texas, February 2004.

The Houston Research Center rocks!?how holding a rock in your hand can change your life: invited talk presented at the Association of Women Geoscientists Lone Star Chapter Monthly Lunch Meeting, Houston, Texas, January 2004.

Activities of a Professional Nature

Professional Societies

American Association of Petroleum Geologists

Gulf Coast Section of SEPM

Houston Geological Society

Rocky Mountain Association of Geologists

Rocky Mountain Section of SEPM

SEPM (Society for Sedimentary Geology)

Activities of a Professional Nature

Coordinated all logistics for HRC Grand Opening, June 2004

Gave presentations/tours at Houston Research Center Grand Opening, June 2004

Organized and coordinated logistics for DOSECC's Annual Scientific Meeting held in Austin, Texas, June 2005

Organized and coordinated logistics for NSF-sponsored workshop at HRC on Curation of Terrestrial Cores, Samples, and Collections, June 2004

Publications

Peer Reviewed Journal Articles

Krystinik, L. F., and Blakeney DeJarnett, B., 1995, Lateral variability of sequence stratigraphic framework in the Campanian and early Maastrichtian of the Western Interior Seaway, in Van Wagoner, J. C., and Bertram, G. T., eds., Sequence stratigraphy of foreland basin deposits: outcrop and subsurface examples from the Cretaceous of North America: American Association of Petroleum Geologists Memoir No. 64, p. 11–26.

Non Peer Reviewed Journal Articles

DeJarnett, B. B., 2009, Keepers of a national and international treasure, in Laubach, S. E., and Tinker, S. W., eds., 2009, Earth’s art: celebrating the Centennial of the Bureau of Economic Geology, 1909–2009: The University of Texas at Austin, Bureau of Economic Geology, p. 4–5.

Fisher Mallick, J., DeJarnett, B. B., and Zahm, L. C., 2004, Big rocks found in Houston: Houston Geological Society Bulletin, v. 47, no. 1, p. 66–67.

DeJarnett, B. B., and Zahm, L. C., 2003, World-class public core, cuttings, and sample facility right here in Houston, Texas: Houston Geological Society Bulletin, v. 45, no. 9, p. 39–43.

Blakeney, B. A., Krystinik, L. F., and Downey, A. A., 1990, Reservoir heterogeneity in Morrow valley fills, Stateline Trend: implications for reservoir management and field expansion, in Sonnenberg, S. A., Shannon, L. T., Rader, K., Von Drehle, W. F., and Martin, G. W., eds., Morrow sandstone of SE Colorado and adjacent areas: Rocky Mountain Association of Geologists, p. 131–142.

Burruss, R. C., Blakeney, B. A., Castle, R. A., and Kirkby, K., 1990, Petroleum source rock quality and thermal maturation of the Mississippian Spergen and Pennsylvanian Morrow and Marmaton formations, SE Colorado, W. Kansas, and the Oklahoma Panhandle, in Sonnenberg, S. A., Shannon, L. T., Rader, K., Von Drehle, W. F., and Martin, G. W., eds., Morrow sandstone of SE Colorado and adjacent areas: Rocky Mountain Association of Geologists, p. 59–66.

Krystinik, L. F., and Blakeney, B. A., 1990, Sedimentology of the Upper Morrow Formation in eastern Colorado and western Kansas, in Sonnenberg, S. A., Shannon, L. T., Rader, K., Von Drehle, W. F., and Martin, G. W., eds., Morrow sandstone of SE Colorado and adjacent areas: Rocky Mountain

Association of Geologists, p. 37–50.

Blakeney, B. A., and Eby, D. E., 1988, Upper Devonian Nisku Formation of East Kevin field, Sweetgrass Arch, Montana, in Goolsby, S. M., and Longman, M. W., eds., Occurrence and petrophysical properties of carbonate reservoirs in the Rocky Mountain region, Rocky Mountain Association of Geologists Symposium.

Contract Reports

Kyle, J. R., Hoffman, C., Short, S., Averett, A. R., Elliott, B. A., and DeJarnett, B. B., 2024, Compilation of Geologic Samples and Information Produced during Historic Minerals Exploration in Texas, Relevant to U.S. Critical Minerals Resource Assessment: The University of Texas at Austin, Jackson School of Geosciences, Bureau of Economic Geology, Contract Report for FY 2021 & FY 2022 prepared for U.S. Geological Survey National Geological and Geophysical Data Preservation Program, under contract no. G21AP10637 and G22AP00423, 61 p.

Elliott, B. A., DeJarnett, B. B., Kyle, J. R., Andrews, J. R., Averett, A. R., and Childress, T., 2023, CONTRACT REPORT FOR FY 2019 & FY 2020 NATIONAL GEOLOGICAL & GEOPHYSICAL DATA PRESERVATION PROJECT NGDPP G19AS00009 & G20AS00008: Final Report prepared for NGGDPP, under contract no. G19AS00009, G20AS00008, 46 p.

Dutton, S. P., DeJarnett, B. B., and Tinker, S. W., 2006, Support for the curation of academic research cores, samples, and collections in the geosciences: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for NSF, under contract no. 0331241, 13 p.

Tinker, S. W., and DeJarnett, B. B., 2006, Operation of a public geologic core and sample repository in Houston, Texas: The University of Texas at Austin, Bureau of Economic Geology, Technical Progress Report prepared for U.S. Department of Energy, 14 p.

Tinker, S. W., and DeJarnett, B. B., 2005, Operation of a public geologic core and sample repository in Houston, Texas: The University of Texas at Austin, Bureau of Economic Geology, technical progress report prepared for U.S. Department of Energy, 15 p.

DeJarnett, B. B., 2002, The Greater Green River Basin Production Improvement Project: Union Pacific Resource Company, final report U.S. Department of Energy, National Energy Technology Laboratory, DE-AC21-95MC31063.

Published Reports

Moscardelli, L., Ambrose, W. A., Young, M. H., Scanlon, B. R., Flaig, P. P., Olariu, M. I., Hattori, K., Ko, L., Loucks, R. G., Radjef, E., Maraggi, L., Schuba, N., Sivil, J. E., Peng, S., Zhang, T., Sun, X., Zeng, H., Ogiesoba, O. C., Fu, Q., Reed, R. M., Rogers, H., Duncan, I. J., Dommisse, R., Jensen, J., Hessler, A., DeJarnett, B. B., and Periwal, P., 2023, State of Texas Advanced Resource Recovery (STARR) 2020-2022 biennium report: The University of Texas at Austin, Bureau of Economic Geology51 p.

Ambrose, W. A., Rogers, H., Smith, D. C., Scanlon, B. R., Paine, J. G., Nicot, J.-P., Young, M. H., Loucks, R. G., Hentz, T. F., Reed, R. M., Ogiesoba, O. C., Olariu, M. I., Fu, Q., Flaig, P. P., Zhang, J., Hattori, K., Roberts, A., Zeng, H., DeJarnett, B. B., Radjef, E., Periwal, P., Peng, S., Duncan, I. J., Ren, B., Jensen, J., Male, F., Dommisse, R., Eastwood, R., Carr, D. L., Zhang, T., Ko, L., Larson, T., Lawton, T., Covault, J., Sylvester, Z., Goodman, E., Calle, A., Smye, K. G., Pelletier, I., Dunlap, D. B., Lambert, J., and Sivil, J. E., 2021, State of Texas Advanced Resource Recovery (STARR) 2018-2020 biennium report: The University of Texas at Austin, Bureau of Economic Geology44 p.

Workshop Workbooks

Flaig, P. P., Hattori, K., Ambrose, W. A., Fu, Q., DeJarnett, B. B., Ko, L., Radjef, E., Carr, D. L., Hasiotis, S., Ogiesoba, O. C., and Moscardelli, L., 2021, Core Workshop: Mixed Carbonate-Siliciclastic Reservoir Systems of the Strawn Group: Focus - Upper Strawn, King and Stonewall Counties, Texas: STARR.

Published Abstracts

Flaig, P., Hasiotis, S., Ambrose, W. A., Hattori, K., and DeJarnett, B. B., 2021, The importance of integrating sedimentology and ichnology to accurately interpret the spatial-temporal relationship of mixed carbonate-clastic coastal-shelfal depositional systems, Pennsylvanian (Desmoinesian) Strawn Group, Texas (abs.): Geological Society of America Abstracts with Programs, v. 53, no. 6,

item no. 12-4, http://doi.org/10.1130/abs/2021AM-371245.

DeJarnett, B. B., 2009, Got rocks? University of Texas Bureau of Economic Geology Core Research Centers—publicly available cores and samples from West Texas and the world (abs.), in Elusive hydrocarbons are still to be found in the Permian Basin: West Texas Geological Society Fall Symposium, October 28–30, p. 18–19.

DeJarnett, B. B., 2005, The Bureau of Economic Geology, The University of Texas at Austin, core and sample repositories (abs.): Geological Society of America, Abstracts with Programs, v. 37, no. 7, p. 487

DeJarnett, B. B., and Scott, A. J., 2005, Tidally influenced sedimentation in the Almond Formation, Patrick Draw field, SW Wyoming (abs.), in American Association of Petroleum Geologists, Rocky Mountain Section, Annual Meeting, Jackson Hole, WY, September 24–26.

Dutton, S. P., Goldstein, S. L., and DeJarnett, B. B., 2005, Curation of terrestrial scientific cores, samples, and collections (abs.): Geological Society of America Abstracts with Programs, v. 37, no. 7, p. 487.

DeJarnett, B. B., and Zahm, L. C., 2004, Cores and cuttings: an extraordinary resource (abs.): American Association of Petroleum Geologists Annual Convention Abstracts Volume, v. 13, p. A14.

Zahm, L. C., and DeJarnett, B. B., 2004, Dramatic carbonate reservoir facies illustrated in cores from the teaching collection of the Bureau of Economic Geology (abs.): American Association of Petroleum Geologists Annual Convention Abstracts Volume, v. 13, p. A153.

Blakeney DeJarnett, B., and Krystinik, L. F., 1992, Sequence analysis of the Pennsylvanian Morrow Formation, SE Colorado and W Kansas (abs.): American Association of Petroleum Geologists Annual Convention Official Program.

Blakeney, B. A., and Slingerland, R. L., 1986, Rayleigh-Taylor instability as the origin of certain soft-sediment deformation structures (abs.): American Association of Petroleum Geologists Bulletin, v. 70, no. 5, p. 567.