

# Joseph Sung-Ling. Yeh

## Professional Summary

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### Professional Preparation

#### Academic Background

B.S. Chemistry, Fu-Jen Catholic University, Taipei, Taiwan, 1977

#### Professional Appointments

Present Position: Research Associate, Bureau of Economic Geology, The University of Texas at Austin (June 1990 - Present).

Research Assistant, Bureau of Economic Geology, The University of Texas at Austin (January 1989 - May 1990).

Research and Teaching Assistant, Department of Petroleum Engineering, The University of Texas at Austin (1985 - 1989).

#### Dissertations

Investigation of the hysteresis effect in steam simulation processes: Austin, Texas, The University of Texas at Austin, M.A. thesis, 1990

#### Continuing Education Courses Taken

Reservoir Characterization Geostatistics (RC2) & Unocal: October 1994

### Areas of Expertise

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Computer software and hardware; programming in numerical methods used in solving equations involved in oil, gas, and water pollution and transport

Design and performance of research projects involved in single- and two-phase-flow core flooding, acidizing, and relative permeability experiments

Organic and analytical chemistry

Reservoir engineering, petrophysics, well testing, drilling and well completion, waterflooding, thermal oil recovery, and economic analysis

Well-logging interpretation and correlation: SP, gamma, density, sonic, neutron, resistivity, and induction logs

### Awards

#### Awards and Honorary Societies

Pi Epsilon Tau, Petroleum Engineering Honor Society

Staff Excellence Award, The University of Texas at Austin, 2007

Outstanding Graduate Award of Fu-Jen Catholic University, 1977

Phi Tau Phi, National Scholastic Honor Society of Taiwan, 1977

Dean's Honor List, 1973 - 1977

Outstanding Graduate Award of Fu-Jen Catholic University, 1976

## Publications

### Peer Reviewed Journal Articles

Hamilton, D. S., Tyler, Noel, Tyler, Roger, Raeuchle, S. K., Holtz, M. H., Yeh, J. S., Uzcátegui, M., Jimenez, T., Salazar, A., Cova, C. E., Barbato, R., and Rusic, A., 2002, Reactivation of mature oil fields through advanced reservoir characterization: a case history of the Budare field, Venezuela: AAPG Bulletin, v. 86, no. 7, p. 1237-1262.

Holtz, M. H., Yeh, J. S., and Hamilton, D. S., 1997, Hybrid risk modeling, synthesizing deterministic, stochastic, and 3-D geocellular techniques: example from Jackson field, Eromanga Basin, Queensland, Australia: Society of Petroleum Engineers, Paper No. SPE 37947, p. 1-8.

Holtz, M. H., Yeh, J. S., Chang, C. Y., and Fonseca, Claudio, 1997, Recognition of compartmentalization and reserve-growth potential in a structurally and stratigraphically complex reservoir: example from Barrancas Norte field, Cuyana Basin, Argentina: Society of Petroleum Engineers, SPE Paper No. 38710.

### Non Peer Reviewed Authored Books

Hovorka, S. D., Dutton, A. R., Ruppel, S. C., and Yeh, J. S., 1996, Edwards aquifer ground-water resources: geologic controls on porosity development in platform carbonates, South Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 238, 75 p.

Ambrose, W. A., Ferrer, E. R., Dutton, S. P., Wang, D. L., Padron, Antonio, Carrasquel, Williams, Tyler, Noel, and Yeh, J. S., 1995, Production optimization of tide-dominated deltaic reservoirs of the Lower Misoa Formation (lower Eocene), LL-652 Area, Lagunillas field, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 226, 46 p.

Hamlin, H. S., Dutton, S. P., Seggie, Robert, Tyler, Noel, and Yeh, J. S., 1995, Flow-unit characterization and recovery optimization of a braid-delta sandstone reservoir, Tirrawarra oil field, South Australia: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, no. 231, 44 p.

### Non Peer Reviewed Journal Articles

Holtz, M. H., Yeh, J. S., and Chang, C.-Y., 1997, 3-D geocellular oil-resource determination in South Texas Frio fluvial-deltaic reservoirs: Gulf Coast Association of Geological Societies Transactions, v. 47, p. 219-220.

Ayers, W. B., Jr., Ambrose, W. A., and Yeh, J. S., 1994, Coalbed methane in the Fruitland Formation, San Juan Basin: depositional and structural controls on occurrence and resources, in Ayers, W. B., Jr., and Kaiser, W. R., eds., Coalbed methane in the Upper Cretaceous Fruitland Formation, San Juan Basin, New Mexico and Colorado: New Mexico Bureau of Mines and Mineral Resources, in cooperation with The University of Texas at Austin, Bureau of Economic Geology (Report of Investigations No. 218) and the Colorado Geological Survey, Division of Minerals and Geology, Department of Natural Resources (Resource Series 31), Bulletin 146, p. 13-40.

Major, R. P., Holtz, M. H., and Yeh, J. S., 1993, Integrating geology and engineering in a three-dimensional model to assess additional recovery potential: Keystone (San Andres) reservoir, West Texas, in Gibbs, Julie, and Cromwell, David, eds., New dimensions in the

Permian Basin: West Texas Geological Society, Publication No. 93-93, p. 1-7.

Ricoy, J. U., Yeh, J. S., and Major, R. P., 1992, Evaluation of reserve-growth potential in barrier/strandplain compartmentalized reservoirs of the Frio Formation, Lavaca Bay field, South Texas: Gulf Coast Association of Geological Societies Transactions, v. 42, p. 343-348.

Schultz-Ela, D., and Yeh, J. S., 1992, Predicting fracture permeability from bed curvature, in Tillerson, J. R., and Wawersik, W. R., eds., Rock mechanics: Proceedings, 33rd U.S. symposium: Rotterdam, Balkema, p. 579-589.

Ayers, W. B., Jr., Ambrose, W. A., and Yeh, J. S., 1991, Depositional and structural controls on coalbed methane occurrence and resources in the Fruitland Formation, San Juan Basin, in Ayers, W. B., Jr., Kaiser, W. R., Laubach, S. E., Ambrose, W. A., Baumgardner, R. W., Jr., Scott, A. R., Tyler, Roger, Yeh, J. S-L., Hawkins, G. J., Swartz, T. E., Schultz- Ela, D. D., Zellers, S. D., Tremain, C. M., and Whitehead, N. H., III, eds., Geologic and hydrologic controls on the occurrence and producibility of coalbed methane, Fruitland Formation, San Juan Basin: The University of Texas at Austin, Bureau of Economic Geology, topical report prepared for the Gas Research Institute under contract no. 5087-214-1544, p. 9-46.

### Non Peer Reviewed Book Chapters

Hamilton, D. S., Yeh, Joseph, Calderon, P., Barba, Robert, Jr., Rodriguez, M., Castillo, J., Holtz, M. H., and Sanchez, M., 2003, Chapter 8. Horizontal-well drilling in the heavy-oil belt, Eastern Venezuela Basin: a postmortem of drilling experiences, in Carr, T. R., Mason, E. P., and Feazel, C. T., eds., Horizontal wells: focus on the reservoir: American Association of Petroleum Geologists, Methods in Exploration No. 14, p. 127-141.

### Contract Reports

Hentz, T. F., Ambrose, W. A., DeAngelo, Michael, Holtz, M. H., Sakurai, Shinichi, Talukdar, S., Wawrzyniec, T. F., Dunlap, D. B., Dutton, S. P., Guevara, E. H., Nance, H. S., Yeh, J. S., Bouroullec, Renaud, Brown, L. F., Jr., Martinez Sierra, Ricardo, Hernández-Mendoza, J. J., Ramos Gallardo, Hilario, Alvarado Cespedes, Alberto, Marino Castanon, Alberto, Machado Simental, Ruben, Ayala Anguiano, Ramiro, and Segura Trevino, Alberto, 2004, Definition of the geological framework and exploration plays of the Miocene of the Burgos Basin, northern Mexico: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Pemex in two volumes, Spanish and English, variously paginated + 5 vols. Plates.

Potter, E. C., Hentz, T. F., Kim, E. M., Olson, J. E., Yeh, J. S., and DeAngelo, M. V., 2004, Jackson Endowed Fund lease holdings: portfolio refinement and opportunities for incremental production: The University of Texas at Austin, Bureau of Economic Geology, final report submitted to the Geology Foundation, The University of Texas at Austin, 48 p. + 2 vols. of plates.

Knox, P. R., Fouad, Khaled, Zinke, S., Light, Malcolm, Skolnakorn, J., Shi, S., Von Lunen, E., Yeh, J. S., Finley, R. J., Barba, R. E., Jr., Holtz, M. H., Mercer, M., Handford, R., Martinez, C., Sipahioglu, O., Rassi, Claudia, Hamilton, D. S., Akhter, M. S., Clift, S. J., Dunlap, D. B., Mahoney, M., Treviño, R. H., Bullen, G., Chang, C. Y., Ramberger, R., Fuchs, R., Gstrein, M., Zier, N., Baltas, P., and Jarnik, M., 2000, Optimizing hydrocarbon recovery from the Matzen Field, Vienna Basin, Austria: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for OMV, under agreement no. UTA98-0377, variously paginated.

Hamilton, D. S., Ambrose, W. A., Barba, R. E., Jr., De Angelo, Michael, Tyler, Noel, Yeh, J. S., Dunlap, D. B., and Laubach, S. E., 1999, Hydrocarbon production opportunities defined by integrated reservoir characterization, Guarico 13/10 Area, eastern Venezuela: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Teikoku Oil de Sanvi Guere, C.A., 95 p. + app. + attachments.

Hentz, T. F., Zeng, Hongliu, Wood, L. J., Kilic, Cem, Yeh, J. S., Skolnakorn, J., and De Angelo, Michael, 1999, Targeting reserve growth opportunities in the northern Gulf of Mexico Basin:

transferring secondary gas recovery technology to the offshore environment: The University of Texas at Austin, Bureau of Economic Geology, technical progress report: year 1 prepared for U.S. Department of Energy, Federal Energy Technology Center, under contract no. DE-FC-26-98FT40136, 40 p.

Holtz, M. H., Ambrose, W. A., Yeh, J. S., Treviño, R. H., Zeng, Hongliu, Chang, C. Y., Howrie, I. S., and Paulis, J. B., 1999, Production optimization modeling, Block 1, VLA-6/9/21 Field Laboratory, Venezuela: Phase III: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for PDVSA Exploración y Producción, 92 p. + attachments.

Tyler, Roger, Alvarez, Regulo, Ambrose, W. A., Asquith, G. B., Barba, R. E., Jr., Card, C. C., Chirinos, Belkis, Dunlap, D. B., Dutton, S. P., Grabowski, Janusz, Gu, Yaguang, Hamilton, D. S., Hamlin, H. S., Holtz, M. H., Mendoza, Rafael, Paulis, J. B., Remington, R. L., Rodgers, Scott D., Romero, M. L., Scott, A. R., Sparlin, M. A., Yeh, J. S., and Zeng, Hongliu, 1999, Reservoir characterization, simulation, and exploitation planning for the Eocene "B" sands: Mioceno Norte Area, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for PDVSA Exploración y Producción Division de Occidente Venezuela, under Agreement No. 21-E-264, variously paginated, + apps. (12 vols.).

Barton, M. D., Yeh, J. S., and White, C. D., 1998, 3-D description and reservoir modeling of channel-levee and lobe sandstones in the Permian Bell Canyon Formation, West Texas: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Statoil, under contract no. ANS0027404, 97 p.

Ambrose, W. A., Akhter, M. S., Barba, R. E., Jr., Barnaby, R. J., Barrow, K. T., Colvin, Linda, Dutton, S. P., Guevara, E. H., Parker, Dan, Pendleton, V. M., Raeuchle, S. K., Treviño, R. H., Wang, D. L., and Yeh, J. S., 1997, Integrated reservoir study, lower Eocene Misoa reservoirs, VLA-6/9/21 Area, Block I, Phase 2, Stage 3, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Maraven, S.A., under Agreement No. 11-E-395, 158 p.

Ambrose, W. A., Akhter, M. S., Treviño, R. H., Barba, R. E., Jr., Dutton, S. P., Parker, Dan, Yeh, J. S., Pendleton, V. M., Raeuchle, S. K., Wang, D. L., Colvin, Linda, Guevara, E. H., Barrow, K. T., and Barnaby, R. J., 1997, Integrated reservoir study, lower Eocene Misoa reservoirs, VLA-6/9/21 Area, Block I, Phase 2, Stage 3, Lake Maracaibo, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Maraven, S.A., under Agreement No. 11-E-395, 161 p. plus attachments.

Hamilton, D. S., Barba, R. E., Jr., Akhter, M. S., Holtz, M. H., Nelson, H. R., Jr., Yeh, J. S., Rodriguez, M., Sanchez, M., Calderon, P., and Castillo, Jaime, 1997, Targeted horizontal wells for maximizing recovery of heavy oil resources: Arecuna field, Venezuela: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Corpoven, S.A., 189 p. + app. and enclosures.

Angle, E. S., Barton, M. D., Bhattacharya, J. P., Chang, C.-Y., Fang, Qing, Fisher, R. S., Goldhammer, R. K., Hamilton, D. S., Holtz, M. H., Pendleton, V. M., Raeuchle, S. K., Razi, M., Skolnakorn, J., Treviño, R. H., Yeh, J. S., Andrada, Luis, Bugarini, Marta, Fonseca, Claudio, Frati, Guillermo, Jalfin, Guillermo, Lafourcade, Petro, Moreiras, Edgardo, Vignetta, Hugo, Ayestaran, Luis, Nacul, E. C., and Agraz, P. R., 1996, Caracterización de reservorios en la Formación Potrerillos y proyecto de optimización de recuperación de petróleo en el yacimiento Barrancas norte Argentina: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for YPF, S.A., 292 p.

Hamilton, D. S., Raeuchle, S. K., Fisher, R. S., Wang, F. P., Guevara, E. H., Tyler, Noel, Yeh, J. S., Holtz, M. H., Uzcátegui, M., Jimenez, T., Salazar, A., Cova, C. E., Barbato, R., and Rusic, A., 1996, Budare field reservoir characterization study: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Corpoven, S.A., Venezuela, 292 p.

Barton, M. D., Angle, E. S., and Yeh, J. S., 1995, Characterization of heterogeneity style and

permeability structure in fluvial reservoirs: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Petrobras, under contract no. 6502032931, 42 p.

Hamilton, D. S., Holtz, M. H., Dutton, S. P., Yeh, J. S., Lonergan, T., Ryles, P., Hillyer, M., and O'Sullivan, T., 1995, Jackson region reservoir characterization study: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Santos Ltd., Adelaide, South Australia, 124 p. plus appendices.

Holtz, M. H., Hamilton, D. S., Ambrose, W. A., Yeh, J. S., Dutton, S. P., Tyler, Noel, Asquith, G. B., Tadiar, E. F., Anthony, D. P., and Chamalaun, M. E., 1995, High-resolution sequence stratigraphic and systems tract analysis and resource and play assessment of the Toolachee/Nappacongee-Murteree blocks: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Santos Ltd., Adelaide, South Australia, 194 p. + figures and tables.

Tyler, Noel, Ambrose, W. A., Carrasquel, Williams, Dutton, S. P., Ferrer, E. R., Padron, Antonio, Wang, F. P., and Yeh, J. S., 1994, Characterization of lower Eocene reservoirs in the LL-652 area, Lagunillas field: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Lagoven, S.A., 425 p.

Tyler, Noel, Hamlin, H. S., Dutton, S. P., Hardage, B. A., Yeh, J. S., Seggie, Robert, Lansom, Peter, and Asquith, G. B., 1993, Strategies for reserve growth in Tirrawarra field: The University of Texas at Austin, Bureau of Economic Geology, final report prepared for Santos, Ltd., Adelaide, South Australia, 383 p. + app.

Ayers, W. B., Jr., Kaiser, W. R., Laubach, S. E., Ambrose, W. A., Baumgardner, R. W., Jr., Scott, A. R., Tyler, Roger, Yeh, J. S., Hawkins, G. J., Swartz, T. E., Schultz-Ela, D., Zellers, S. D., Tremain, C. M., and Whitehead, N. H., III, 1991, Geologic and hydrologic controls on the occurrence and producibility of coalbed methane, Fruitland Formation, San Juan Basin: The University of Texas at Austin, Bureau of Economic Geology, topical report prepared for the Gas Research Institute, under contract no. 5087-214-1544, 314 p.

## Published Reports

Hamilton, D. S., Holtz, M. H., Barba, R. E., Jr., Tyler, Noel, Yeh, J. S., Rodriguez, M., Sanchez, M., Calderon, P., and Castillo, Jaime, 2001, Horizontal well drilling in the heavy oil belt, eastern Venezuela Basin: a post mortem of drilling experience: American Association of Petroleum Geologists, Bulletin Special Publication, Hedberg Conference Horizontal Wells, Focus on the Reservoir, unpaginated.

## Published Abstracts

Holtz, Mark, Doughty, Christine, Yeh, Joseph, and Hovorka, Susan, 2004, Modeling of CO<sub>2</sub> saline aquifer sequestration and the effects of residual phase saturation (abs.): American Association of Petroleum Geologists Annual Convention Abstracts Volume, v. 13, p. A66.

Hovorka, S. D., Knox, P. R., Holtz, M. H., Yeh, J. S., Fouad, Khaled, and Sakurai, Shinichi, 2003, Tapping the potential for large volume sequestration--update on the Frio brine pilot project (abs.), in Briefing book: Second Annual Conference on Carbon Sequestration: developing & validating the technology base to reduce carbon intensity, Alexandria, Virginia, May 5-9, unpaginated.

Hovorka, S. D., Knox, P. R., Holtz, M. H., Yeh, J. S., Fouad, Khaled, and Sakurai, Shinichi, 2002, Sequestration pilot site in the Texas Gulf Coast, USA (abs.): Geological Society of America Annual Meeting, Paper No. 135-10, [http://gsa.confex.com/gsa/2002AM/finalprogram/abstract\\_44374.htm](http://gsa.confex.com/gsa/2002AM/finalprogram/abstract_44374.htm).

Ambrose, W. A., Hamilton, D. S., Zeng, Hongliu, Holtz, M. H., Light, Malcolm, Yeh, J. S., de Carvajal, G., Pinto, J., Garibaldi, L., and Azpiritxaga, I., 1999, Application of RMS amplitude anomaly mapping in inferring controls on fluid saturation and fault-bound reservoir compartments in the C4 Member (lower Misoa Formation), Phase III Area, Bloque I Area, Lake

Maracaibo, Venezuela (ext. abs.), in Rio 99: 6th International Conference of the Brazilian Geophysical Society, Rio de Janeiro: Sociedade Brasileira de Geofisica, European Association of Geophysicists and Engineers, Society of Exploration Geophysicists, and Latin American Geophysical Union, 4 p., CD-ROM.

Hamilton, D. S., Holtz, M. H., Yeh, J. S., Lonergan, T., Ryles, P., Hillyer, M., and O'Sullivan, T., 1996, Application of nonmarine genetic sequence stratigraphic concepts to reservoir characterization in the fluvial-lacustrine Westbourne Formation, Eromanga Basin, Australia (abs.), in AAPG Annual Convention Official Program: global exploration and geotechnology: American Association of Petroleum Geologists, p. A59.

Hamilton, D. S., Holtz, M. H., Yeh, J. S., Lonergan, T., Ryles, P., Hillyer, M., and O'Sullivan, T., 1996, Integrated geologic and engineering reservoir characterization of the Hutton Sandstone, Jackson Region, Australia (abs.), in AAPG International Convention, Caracas, Venezuela: American Association of Petroleum Geologists.

Holtz, M. H., Hamilton, D. S., Yeh, J. S., Tadiar, E. F., Anthony, D. P., and Chamalaun, M. E., 1995, Application of sequence stratigraphic concepts to reservoir characterization in an intracratonic basin setting: Toolachee field, Cooper Basin, Australia (abs.), in AAPG Annual Convention Official Program: petroleum technology of the world: American Association of Petroleum Geologists, p. 43A.

Ambrose, W. A., Ferrer, E. R., Dutton, S. P., Padron, Antonio, Wang, F. P., Yeh, J. S., Carrasquel, Williams, and Tyler, Noel, 1994, Production optimization through characterization of tide-dominated deltaic reservoirs of the lower Misoa Formation (lower Eocene), LL-652 area, Lagunillas field, Maracaibo Basin, Venezuela (abs.): American Association of Petroleum Geologists Annual Convention Abstracts, v. 3, p. 93.

Hamlin, H. S., Dutton, S. P., Tyler, Noel, Yeh, J. S., Seggie, Robert, Lansom, Peter, and Asquith, G. B., 1994, Resource optimization through facies-based characterization of a braid-delta sandstone reservoir, Tirrawarra oil field, Cooper Basin, South Australia (abs.): American Association of Petroleum Geologists Annual Convention Abstracts, v. 3, p. 162.

Major, R. P., Holtz, M. H., and Yeh, J. S., 1993, Reservoir characterization of the Colby and San Andres reservoirs, Keystone field (abs.), in Major, R. P., and Ruppel, S. R., eds., New oil and gas recovery technologies targeted for West Texas hydrocarbon reservoirs: West Texas Geological Society and The University of Texas at Austin, Bureau of Economic Geology, Technology Transfer Seminar, p. 1-2.

Tremblay, T. A., Yeh, J. S., and Holtz, M. H., 1993, Mapping subsurface temperature and pressure gradients in Texas hydrocarbon reservoirs (abs.), in 17th Annual CPS Users' Conference: Radian Corporation, Abstracts, p. 5-6.

Ambrose, W. A., Ayers, W. B., Jr., and Yeh, J. S., 1992, Depositional controls on coalbed methane occurrence in the Fruitland Formation (Upper Cretaceous), San Juan Basin, Colorado and New Mexico (abs.): Methane from Coal Seams Technology, v. 9, no. 2, p. 47.

Holtz, M. H., Dommissie, R. D., Yeh, J. S., and Major, R. P., 1992, Modeling of 3-D rock property distribution within depositionally and diagenetically controlled flow units: a carbonate reservoir example (abs.), in Second Annual Symposium on 3-D Reservoir Characterization: Texaco, Inc., Exploitation and Production Technology Department, unpaginated.

Ricoy, J. U., Yeh, J. S., and Major, R. P., 1992, Evaluation of reserve growth potential in barrier/strandplain compartmentalized reservoirs of the Frio Formation, Lavaca Bay field, South Texas (abs.): American Association of Petroleum Geologists Bulletin, v. 76, no. 9, p. 1468.

Ambrose, W. A., Ayers, W. B., Jr., and Yeh, J. S., 1991, Depositional controls on coalbed methane occurrence in the Fruitland Formation (Upper Cretaceous), San Juan Basin, Colorado and New Mexico (abs.): Geological Society of America Abstracts with Programs, v. 23, no. 4, p. 2.

Ayers, W. B., Jr., Ambrose, W. A., Kaiser, W. R., Laubach, S. E., Scott, A. R., Yeh, J. S., Tremain, C. M., and Whitehead, N. H., III, 1991, Geologic and hydrologic characterization of coalbed methane reservoirs, Fruitland Formation, San Juan Basin, Colorado and New Mexico (abs.): American Association of Petroleum Geologists Bulletin, v. 75, no. 3, p. 535.

Tyler, Noel, Barton, M. D., and Yeh, J. S., 1991, Outcrop characterization of architecture and permeability structure in fluvio-deltaic reservoirs, Ferron Sandstone, Utah (abs.), in Advanced three-dimensional reservoir modeling and characterization symposium: Stratamodel and Mobil Oil Producing Corporation, unpaginated.