

# Thomas M. (Marty) Parris

**Title: Geologist, Energy and Minerals Section**

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Joined KGS in May 2004

**Education:**

- 1998, Ph.D., Geology, University of California, Santa Barbara
- 1984, M.S., Geology, Texas Christian University
- 1981, B.S., Geology, Tennessee Technological University

**Responsibilities:**

Basic and applied research in reservoir characterization and modeling, with emphasis on carbon sequestration, enhanced oil recovery, and gas storage. Diagenesis, low temperature geochemistry, and water-rock interaction in siliciclastic and carbonate rocks, and faults and fractures.

**Professional Organizations:**

- American Association of Petroleum Geologists
- American Geophysical Union
- Geological Society of America
- Society of Sedimentary Geology

**Publications and Abstracts:**

- Hanks, C.L., **Parris, T.M.**, and Wallace, W.K., in press, 2004, Fracture paragenesis in detachment folded Lisburne Group: Implications for the thermal and structural evolution of the northeastern Brooks Range, Alaska.
- **Parris, T.M.**, and Boles, J.R., in review, 2004, Fracture-derived sandstone cements, Mecca Hills, California: Journal of Sedimentary Research.

- **Parris, T.M.** , Burruss, R.C., and O’Sullivan, P.B., 2003, Deformation and the timing of gas generation and migration in the eastern Brooks Range foothills, Arctic National Wildlife Refuge, Alaska: American Association of Petroleum Geologists Bulletin, v. 87, p. 1823-1846.
- Tye, R.S., **Parris** , M., Barker, F., Aytuna, S., and Ozcelik, Y., 2000, Sedimentologic and reservoir quality characteristics of the Cretaceous Velibey Formation, Zonguldak, Turkey: Turkish Journal of Oil and Gas, v. 6, p. 3-29.
- **Parris, T.M.**, Fishman, N. S., Burruss, R.C., and Pawlewicz, M.J., 2004, Petroleum inclusions and the origin of gas in the Upper Cretaceous Lewis Shale, San Juan basin, New Mexico [abs.]: American Association Petroleum Geologists Rocky Mountain Section Meeting, Denver, Colo.
- **Parris, T.M.** , and Burruss, R.C., 2004, Temperature, pressure, and fluid composition conditions of fracture cementation in the Brooks Range fold-thrust belt, Arctic National Wildlife Refuge, Alaska [abs.]: American Association Petroleum Geologists Hedberg Conference, Structural Diagenesis: Fundamental Advances and New Applications from a Holistic View of Mechanical and Chemical Processes, Austin, Tex.
- Burruss, R.C., and **Parris, T.M.**, 2003, Fluid inclusion evidence for dynamic pressure fluctuations during basin evolution [abs.]: American Association Petroleum Geologists National Meeting, Salt Lake City, Utah.
- Hanks, C., Wallace, W., and **Parris, T.M.**, 2003, Progressive fracturing and folding during burial, deformation, and unroofing in the northeastern Brooks Range, Alaska [abs.]: American Association Petroleum Geologists National Meeting, Salt Lake City, Utah.
- **Parris, T.M.** , Fishman, N.S., Pawlewicz, M. J., and Christiansen, G. E., 2003, Origin, timing, and conditions of gas generation in the Lewis Shale, San Juan Basin, New Mexico [abs.]: American Association Petroleum Geologists National Meeting, Salt Lake City, Utah.
- Hanks, C.L., **Parris, T.M.** ,and Wallace, W.K., 2002, Fractures and detachment folds in the northeastern Brooks Range-conditions of formation and reservoir implications [abs.]: American Association Petroleum Geologists/Society Petroleum Engineers Meeting, Anchorage, Alaska, May 2002.
- **Parris, T.M.**, Burruss, R.C., and O’Sullivan, P.B., 2002, Timing of deformation and gas generation and migration in the foothills region of the eastern Brooks Range fold-thrust belt (Arctic National Wildlife Refuge, Alaska) [abs.]: American Association Petroleum Geologists Hedberg Conference, Deformation History, Fluid Flow Reconstruction, and Reservoir Appraisal in Foreland Fold and Thrust Belts, Sicily, Italy, May 2002.
- **Parris, T.M.**, and Burruss, R.C., 2001, Tectonism, fracturing, and gas generation, northeast Brooks Range, Alaska [abs.]: American Association Petroleum Geologists National Meeting, Denver, Colo.
- **Parris, T.M.**, and Burruss, R.C., 2000, Syntectonic fluid flow and fracturing, eastern Brooks Range, Alaska [abs.]: Geological Society of American, Abstracts with Programs, Reno, Nev.