

## Holditch Peer Reviewed Journal Articles 1973 - 2008

### Peer Reviewed Publications:

- Holditch, Stephen A. and Chianelli, Russell R.: "Factors That Will Influence Oil and Gas Supply and Demand in the 21<sup>st</sup> Century", *MRS Bulletin*, Volume 33, April 2008, Harnessing Materials for Energy.
- Holditch, S. A.: "Tight Gas Reservoirs", Distinguish Author Article, *Journal of Petroleum Technology*, (May 2006)
- Rahim, Z., Holditch, S. A., Zuber, M. D., and Buehring, D.: "Evaluation of Fracture Treatments Using a Layered Reservoir Description: Field Examples," *SPE Production & Facilities* (February 1998) 21-27.
- Voneiff, G. W., Robinson, B., M., and Holditch, S. A.: "The Effects of Unbroken Fracture Fluid On Gas Well Performance", *SPE Production & Facilities*, November 1996, 223-229.
- Yao, C. Y., and Holditch, S. A.: "Reservoir Permeability Estimation from Time-Lapse Log Data", SPE 25513, *SPE Formation Evaluation*, (June 1996) 69-74,
- Yong, F. and Holditch, S. A.: "Use of Volumetric-Average Shear Rate to Test Crosslinked Fluids with the Fann 50 Viscometer," *SPE Production and Facilities*, August 1995, 191-196.
- Rahim, Z. and Holditch, S. A.: "Using a Three-Dimensional Concept in a Two-Dimensional Model to Predict Accurate Hydraulic Fracture Dimensions," *J. Petroleum Science & Engineering* (1995) **13**, 15-27.
- Rahim, Z. and Holditch, S. A.: "The Effects of Mechanical Properties and Selection of Completion Interval Upon the Created and Propped Fracture Dimensions in Layered Reservoirs," *J. Petroleum Science & Engineering* (1995) **13**, 29-45.
- Rahim, Z. and Holditch, S. A.: "Effects of Fracture Fluid Degradation on Underground Fracture Dimensions and Production Increase," submitted for publication to *Journal of Petroleum Science & Engineering* (1995).
- Rahim, Z., Holditch, S. A., Zuber, M. D., and Buehring, D.: "Evaluation of Fracture Treatments Using a Layered Reservoir Description: Field Examples," *Journal of Petroleum Science & Engineering* (March 1995) **12**, No. 4, 257-267.
- Xiong, H. and Holditch, S. A.: "Investigation Into the Application of Fuzzy Logic to Well Stimulation Treatment Design," *SPE Computer Applications*, (Feb. 1995) 18-24.
- Holditch, S. A. and Rahim, Z.: "Developing Data Sets for Three-Dimensional Fracture Propagation Models," *SPE Production and Facilities* (Nov. 1994) 257-261.

- Voneiff, G. W. and Holditch, S. A.: "Economic Assessment of Applying Recent Advances in Fracturing Technology," *Journal of Petroleum Technology* (Jan. 1994) 51-57, Distinguished Author Series.
- Ning, W., Fan, J., Holditch, S. A. and Lancaster, D. E.: "Measurement of Shale Matrix and Fracture Properties in Naturally Fractured Cores Using Pulse Testing," *Gas Shales Technology Review* (Oct. 1993) **8**, no. 2, 31-45.
- Holditch, S. A.: "Completion Methods in Coal Seam Reservoirs," *Journal of Petroleum Technology*, March 1993, 270-276.
- Rollins, J. B., Holditch, S. A., and Lee, W. J.: "Characterizing Average Permeability in Oil and Gas Formations," *SPE Formation Evaluation*, March 1992, 99-105.
- Holditch, S. A. and Blakeley, D. M.: "Flow Characteristics of Hydraulic Fracture Proppants Subjected to Repeated Production Cycles," *SPE Production Engineering* (Feb. 1992) 15-20.
- Robinson, B. M., Holditch, S. A., Whitehead, W. S., and Peterson, R. E.: "Hydraulic Fracturing Research in East Texas: Third GRI Staged Field Experiment," *Journal of Petroleum Technology* (Jan. 1992) 78-87.
- Tobola, D. P. and Holditch, S. A.: "Determination of Reservoir Permeability From Repeated Formation Logging," *SPE Formation Evaluation* (March 91) 20-26.
- Holditch, S. A., Robinson, B. M., Ely, J. W., and Rahim, Z.: "The Effect of Viscous Fluid Properties on Excess Friction Pressures Measured During Hydraulic Fracture Treatment," *SPE Production Engineering* (Feb. 1991) 9-14.
- Whitehead, W. S., Gatens III, J. M., and Holditch, S. A.: "Determination of In-situ Stress Profiles Through Hydraulic Fracturing Measurements in Two Distinct Geologic Areas," *International Journal of Rock Mechanics and Mining Sciences*, Vol. 26, no. 6, (Dec. 1989) 637-645.
- Pursell, D. A., Blakeley, D. M., and Holditch, S. A.: "Discussion of Influence of an Immobile or Mobile Saturation on Non-Darcy Compressible Flow of Real Gases in Propped Fracture," *Journal of Petroleum Technology* (Dec. 1989) 1368-1369.
- Ely, J. W., Haskett, S. E., and Holditch, S. A.: "Field Unit Enhances Fracture Investigation," *Journal of Petroleum Technology* (Nov. 1989) 1194-1198.
- Ely, J. W., Haskett, S. E., and Holditch, S. A.: "Frac-Fluid Quality Controlled in Field Lab," *Oil & Gas Journal* (July 1989) 42-46.
- Ely, J. W., Holditch, S. A., Carter, R. H.: "Improved Hydraulic Fracturing Strategy for Fruitland Formation Coalbed Methane Recovery, San Juan Basin, New Mexico and Colorado," *Geology and Coalbed Methane Resources of the Northern San Juan Basin, Colorado and New Mexico*, J. E. Fassett (ed.), Rocky Mountain Association of Geologists, Denver (1988) 155-158.
- McVay, D. A., Hill, N. C., Lancaster, D. E., Lee, W. J. and Holditch, S. A.: "Interactive Well Test Analysis Using Microcomputers," *Journal of Petroleum Technology* (Sept. 1988) 1227-1231.

- Holditch, S. A., Robinson, B. M., Whitehead, W. S. and Ely, J. W.: "The GRI Staged Field Experiment," *SPE Formation Evaluation* (Sept. 1988) 519-533.
- Haskett, Steven E., Narahara, Gene M. and Holditch, Stephen A.: "A Method for Simultaneous Determination of Permeability and Porosity in Low-Permeability Cores," *SPE Formation Evaluation* (Sept. 1988) 651-658.
- Ely, J. W. and Holditch, S. A.: "Polymers Used to Direct Kill Fluids to Blowouts," *Oil & Gas Journal* (Aug. 1, 1988) 44-48.
- Robinson, B. M., Holditch, S. A. and Whitehead, W. S.: "Minimizing Damage to a Propped Fracture by Controlled Flowback Procedures," *Journal of Petroleum Technology*, (June 1988) 753-759.
- Semmelbeck, Mark E. and Holditch, S. A.: "The Effects of Mud-Filtrate Invasion on the Interpretation of Induction Logs," *SPE Formation Evaluation* (June 1988) 386-392.
- Holditch, S. A., Robinson, B. M. and Whitehead, W. S.: "Pre-Fracture and Post-Fracture Formation Evaluation Necessary to Characterize the Three-Dimensional Shape of a Hydraulic Fracture," *SPE Formation Evaluation* (Dec. 1987) 523-534.
- Robinson, B. M. and Holditch, S. A.: "A Case Study of the Wilcox (Lobo) Trend in Webb and Zapata Counties, TX," *Journal of Petroleum Technology*, (Dec. 1986) 1355-1364.
- Holditch, S. A., Lee, W. J., and Gist, S. R.: "An Improved Technique for Estimating Permeability, Fracture Length, and Fracture Conductivity From Pressure Buildup Tests in Low Permeability Gas Wells," *Journal of Petroleum Technology*, (May 1983) pp. 981-990.
- Holditch, S. A., Lee, W. J., and Lancaster, D. E.: "Effect of Mud Filtrate Invasion on Apparent Well Productivity in Drillstem Tests in Low Permeability Gas Formations," *J. Pet. Tech.* (Feb. 1983) pp. 299-305.
- Lee, W. J. and Holditch, S. A.: "Application of Pseudo-Time to Buildup Test Analysis in Low Permeability Gas Wells with Long Duration Wellbore Storage Distortion," *J. Pet. Tech.* (Dec. 1982) pp. 2877-2887.
- Lee, W. J. and Holditch, S. A.: "Fracture Evaluation With Pressure Transient Testing in Low Permeability Gas Reservoirs," *Journal of Petroleum Technology* (Sept. 1981) pp. 1776-1792.
- Kozik, H. G., Bailey, B. G., and Holditch, S. A.: "A Case History of Massive Hydraulic Fracturing the Cotton Valley Lime Matrix, Fallon and Personville Field - Limestone County, Texas," *Journal of Petroleum Technology*, (Feb. 1981) pp. 229-224.
- Wyman, R. E., Holditch, S. A., and Randolph, D. L.: "Analyses of an Elmworth Hydraulic Fracture - Alberta, Canada," *Journal of Petroleum Technology*, (Sept. 1980) pp. 1621-1630.

- Holditch, S. A.: "Factors Affecting Water Blocking and Gas Flow From Hydraulically Fractured Gas Wells," *Journal of Petroleum Technology*, (Dec. 1979) pp. 1515-1524.
- Holditch, S. A. and Morse, R. A.: "The Effects of Non-Darcy Flow on the Behavior of Hydraulically Fractured Gas Wells," *Journal of Petroleum Technology*, (Oct. 1976) pp. 1169-1178.
- Holditch, S. A. and Ely, John: "Successful Stimulation of Deep Wells Using High Proppant Concentration," *Journal of Petroleum Technology*, (August 1973) pp. 959-964.