

**INJECTION WELL TESTING FOR PURPOSES OF PERMITTING AND COMPLIANCE ASSOCIATED
WITH PRODUCED WATER DISPOSAL IN NEW AND DEVELOPING UNCONVENTIONAL GAS PLAYS**

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Unconventional natural gas production has become a key contributor to the nation's energy supplies and its role is expected to increase over the next 20 years. Water is major technical consideration in producing these resources. At the same time, social and environmental concerns have focused attention on ensuring that water management practices associated with unconventional natural gas production, especially shale gas, are protective of the nation's ground water. Use of injection wells is a common disposal practice for oil and gas produced water, but producers in some unconventional gas basins have had difficulty finding injection zones with adequate capacity. To address these concerns, this paper will discuss injection well testing for the purposes of permitting and compliance in new and developing unconventional gas plays.

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