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Case Study: Horizontal Well Drilling Project in the Six Lakes Gas Storage Field

In an effort to reverse a historical decline of 5.6% in field deliverability, the first horizontal gas storage well was drilled in 1993. Since that time, 18 additional horizontal wells have been completed in this field. A number of technological improvements to the drilling process were applied along the way to progressively reduce the drilling cost and enhance the well deliverability. In the present study, we compare data from central Pennsylvania (Union Furnace, Reedsville) with preliminary data from Dexter, New York and previously reported data from the Upper Mississippi Valley and the eastern Midcontinent. It is shown that the Napanee Formation in New York correlates with the Logana Member of the Lexington Limestone in Kentucky and the Salona Formation of central Pennsylvania. This report is a portion of the results of a regional investigation that also includes sections in southeastern Ontario and Manitoulin Island.