

## CBM Forum Introduces Vortex Flow Technology to Operators

by Lisa Hunt, Assistant Director, OIPA/GTI

The Mid-Continent Coalbed Methane Forum continues its record success. Over sixty-five operators throughout Oklahoma, and as far away as Virginia attended the luncheon on January 8, 2003.

Mr. Brad Fehn of Vortex Flow, LLC gave a presentation on "Alternative Ways to Lower CBM Wellhead Pressure". Presently, as production rates decline in coalbed methane wells, liquids become stagnant in the flowlines and gathering lines. The Vortex Flow technology converts turbulent flow into laminar flow with a spiraling action. The spiraling action increases flow efficiency by reducing friction and expelling accumulated fluids. The Vortex Oil and Gas Unit has been shown to improve the flow characteristics in stripper well flowlines, thereby increasing well production of both gas and oil. In the following figure 1, it reveals that a significant amount of water was cleared from the line and gas volume increased significantly. The graph shows that 3.4 million cubic feet per day is now 4.4 million cubic feet per day after substantial liquid was cleared out of the 10" line.

Mitchell Johnston of OGP Operating in Dallas, chairman of the forum said, "As a producer and operator driven group, we were particularly interested in the applications of Vortex Flow LLC. I hope members of the forum can get a direct benefit from the presentation. The luncheon turnouts have been outstanding".

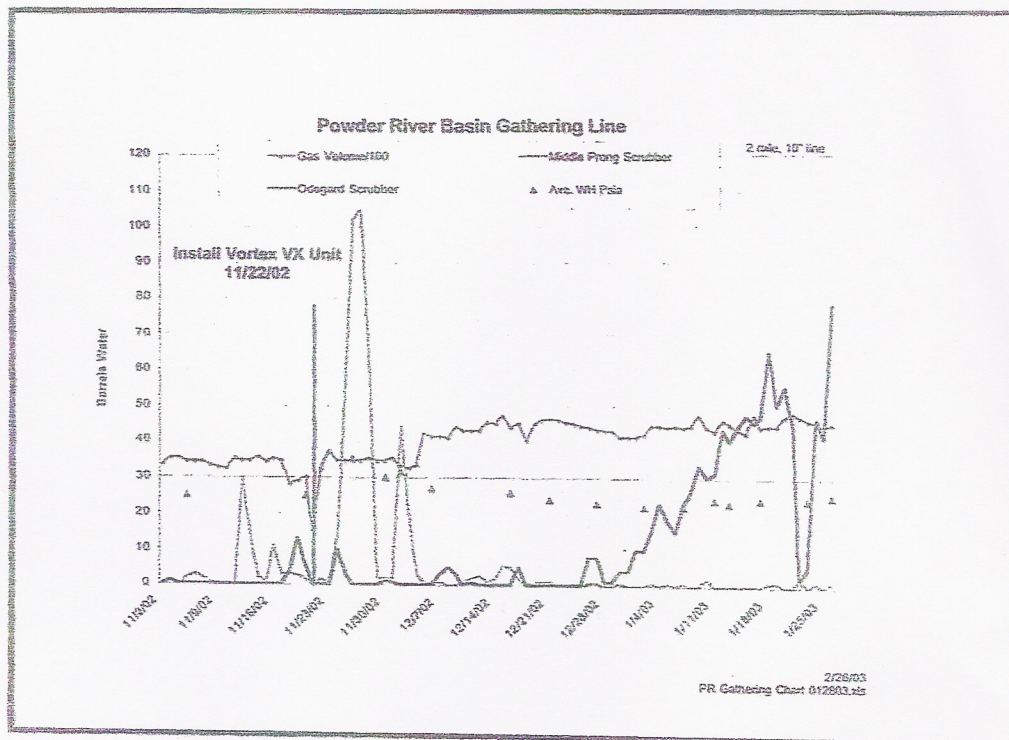
President of Amvest Oil & Gas, Inc. Bruce Sakashita said, "The Vortex Flow technology has the potential for improving coalbed methane development economics by increasing production and reducing costs. Due to the gas desorption mechanism associated with coalbed methane production, reduced wellhead pressures result in enhanced gas production. By reducing pressure drops in gas and water pipelines, investments in gathering infrastructure and overall lease operating expenses will be reduced. Local field tests co-sponsored by Vortex would accelerate utilization of this flow technology in the Cherokee basin and Arkoma basin.

OIPA/GTI Assistant Director Lisa Hunt said, "Our CBM

steering committee works hard at obtaining speakers and presentations geared towards serving the coalbed methane industry. We strive in presenting technical CBM applications that will enhance the learning curve and benefit our group".

The forum meetings are held the second Wednesday of

each month in Tulsa at the Tulsa Country club. Coalbed methane operators or others interested in attending the forum or in obtaining additional information about coalbed methane in the Mid-Continent should contact Lisa Hunt at 405/942-2334, ext 213 or Rick Frederick at 405/942-2334, ext 212. \*



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