RESTORE Program Unplugged Coalbed Methane Wells
Baker Hughes enhanced long-term production potential

Benefits
- Increased long-term production potential
- Rapid dewatering

Project background and challenges
- Coalbed methane field
- Solids precipitation
- Low water production
- Extended dewatering times
- Reduce clogged wellbores and plugged perforations
- Implement cost-effective treatment

Baker Hughes solution and results
- RESTORE production enhancement program
- Removal of deposits
- Restored flow

Solids precipitation
A coalbed methane (CBM) operator in New Mexico had problems with solids precipitation that led to reduced well productivity. The solids were generally paraffin sludge and, in some wells, asphaltene deposits. The solids caused plugged perforations, stuck pumps, and clogged wellbores, and they resulted in low water production and extended well dewatering times. The operator asked Baker Hughes to help identify cost-effective options to address the problem.

Treatment program
Working with the operator to characterize the problem and to consider solutions, we agreed that the Baker Petrolite RESTORE™ production enhancement program represented the best course of action. The RESTORE program returns wells closer to their original and natural productive capacity by removing deposits and restoring flow. The operator implemented a RESTORE program to treat problem wells across the entire field.

Restored productivity
The RESTORE treatments were extremely successful. As an example, one well was treated with a customized RESTORE program application followed by a 24-hour circulation period. After the circulation, the operator collected a fluid sample to make sure the treatment had run its full course. The well was then returned to production.
The sample showed that, after the RESTORE treatment, water production from the well increased by approximately 450% relative to historic levels. Since a primary mechanism of CBM production is dewatering the formation, this dramatic increase in water production was seen as a tremendous benefit to the long-term gas production potential of the well. It also verified the success of the RESTORE production enhancement program.

For more information, contact your Baker Hughes representative.

This case history is presented for illustration purposes only as results may vary between applications.

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