

**UNCOVERING BYPASSED PAY IN CENTRAL OKLAHOMA USING
STATISTICAL ANALYSIS AND FIELD TESTS**

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In a five county area of central Oklahoma there are over 12,000 stripper oil and gas wells. Many of these wells are operated by small, resource-constrained producers who lack the ability to properly evaluate behind pipe potential and/or may be unaware that such potential exists. Uncovering this hidden potential could ultimately result in the recovery of millions of barrels of oil and oil equivalent.

A team composed of Schlumberger Consulting Services, the University of Oklahoma, and Sand Resources proposes to develop, test, and calibrate a methodology to uncover behind pipe potential in mature oil fields greater than 30 years old (Brownfields). Sand Resources is the operator of twelve stripper oil wells in the NW Noble field just south of the O.U. campus in Cleveland County. A class of senior petroleum engineering students under the direction of two senior faculty members has taken on the task of evaluating these twelve wells for undeveloped, behind-pipe reserves. Schlumberger Consulting Services, through the use of its Moving Domain software, proposes to aid in the evaluation of the field and, at the same time, develop a methodology that would be made available to other operators in the state. In addition, to the development of an evaluation methodology, Schlumberger, using Moving Domain analytical techniques, would also identify areas within the five county region that includes Cleveland, McClain, Oklahoma, Garvin, and Logan Counties that appear likely to contain undeveloped potential. These operators could then be given the option of joining the Stripper Well Consortium to gain immediate access to this information.

It is estimated that this methodology could result in the recovery of an additional two to ten million barrels of oil.