



PBS-SEPM Luncheon Lecture: October 29<sup>th</sup>, 2019  
Midland Country Club  
11:30am – 1:00pm

Please email your reservation to [info@pbs-sepm.org](mailto:info@pbs-sepm.org)  
or through our website <https://www.pbs-sepm.org/>

by October 25<sup>th</sup>  
\$25.00 pre-registered, \$30.00 at the door



## ***Pressure-Dependent Permeability of Shale Reservoirs and Implications for Estimated Ultimate Recovery***

Greg Salter, Vice President, Integrated Reservoir Solutions Division Core Laboratories

### **ABSTRACT**

The bulk permeability of shale reservoirs has contributions from matrix, open natural fractures (if present), un-propped hydraulic fractures, and propped hydraulic fractures to varying degrees. Through the joint industry projects conducted by Core Laboratories, the permeability and/or conductivity for these have been measured. These data have all demonstrated a decline to varying degrees with increasing overburden pressure, which can be a proxy for drawdown and pore pressure depletion and has significant implications on well performance. The presentation will review case history comparisons of open-choke and restricted-rate wells and its effect on EUR and whether the initial permeability loss due to high drawdown is reversible and what would happen if an open-choke well is later rate-restricted.

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Greg Salter has been employed by Core Laboratories for over 39 years serving in a number of different capacities and geographic areas. Over 20 years of this service was in the Petroleum Services Division either working in, or directing, laboratory operations including approximately 10 years of international service. He is currently serving as Vice-President of the Integrated Reservoir Solutions Division of Core Laboratories where he is responsible for project management and technical review of all data and resulting interpretations utilized in the various Joint Industry Projects offered by the company. He has most recently focused on the development of core analysis technologies for shales and mudstones and their application and holds a BS in Mathematics from the University of Houston (1985).