



**Energy - Oil and Gas Research; New Oil and Gas Research Findings from University of Wyoming Described (Geologic Modeling of Eagle Ford Facies Continuity Based on Outcrop Images and Depositional Processes)**

440 words

8 February 2019

Energy Weekly News

ENRGWK

248

English

© Copyright 2019 Energy Weekly News via VerticalNews.com

2019 FEB 15 (VerticalNews) -- By a News Reporter-Staff News Editor at Energy Weekly News -- New research on Energy - Oil and Gas Research is the subject of a report. According to news reporting originating from Laramie, Wyoming, by VerticalNews correspondents, research stated, "Geologic modeling of mudrock reservoirs is complicated by the presence of multiscale heterogeneities and lithofacies lateral discontinuity. The resolution of wireline logs is also too low to capture many small-scale heterogeneities that affect fluid flow."

Financial supporters for this research include NanoGeosciences laboratory, Mudrock Systems Research Laboratory (MSRL) consortium at the **Bureau of Economic Geology**, University of Texas at Austin, Jackson School of Geosciences.

Our news editors obtained a quote from the research from the University of Wyoming, "In addition, the large distance between logged wells results in uncertain long-range correlations. Supplementary to wireline log data, high-resolution outcrop images offer a direct representation of detailed heterogeneities and lithofacies connectivity. We used high-resolution panoramic outcrop images to collect data on lithofacies heterogeneity and the role that depositional processes play in this heterogeneity. We then used these data in different classes of reservoir algorithms-two-point-based, object-based, and higher-order statistics-to build a geologic model. To present our methodology, we used data collected from Eagle Ford outcrops in west Texas."

According to the news editors, the research concluded: "We found the higher-order statistics method to be especially efficient, capable of reproducing details of heterogeneity and lithofacies connectivity."

For more information on this research see: Geologic Modeling of Eagle Ford Facies Continuity Based on Outcrop Images and Depositional Processes. SPE Journal, 2018;23(04):1359-1371. SPE Journal can be contacted at: Soc Petroleum Eng, 222 Palisades Creek Dr, Richardson, TX 75080, USA.

The news editors report that additional information may be obtained by contacting P. Tahmasebi, University of Wyoming, Dept. of Petr Engr, Laramie, WY 82071, United States. Additional authors for this research include F. Javadpour and G. Frebourg.

The direct object identifier (DOI) for that additional information is: <https://doi.org/10.2118/189975-pa>. This DOI is a link to an online electronic document that is either free or for purchase, and can be your direct source for a journal article and its citation.

Keywords for this news article include: Laramie, Wyoming, United States, North and Central America, Oil and Gas Research, Energy, University of Wyoming.

Our reports deliver fact-based news of research and discoveries from around the world. Copyright 2019, NewsRx LLC

Document ENRGWK0020190208ef2800081