



Alkalies; Study Findings on Alkalies Are Outlined in Reports from University of Texas Austin (Prestack Seismic Velocity Ratio Evaluation of a Mixed Siliciclastic-Carbonate Formation: Case Study from the Strawn Group on the Eastern Shelf Texas)

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2023 MAR 17 (VerticalNews) -- By a News Reporter-Staff News Editor at Chemicals & Chemistry -- Data detailed on alkalies have been presented. According to news reporting from Austin, Texas, by VerticalNews journalists, research stated, "Although a mixed carbonate-siliciclastic system of the Strawn Group on the Eastern Shelf in King County, Texas, USA provides excellent hydrocarbon reservoirs, facies variability and reservoir properties within such systems are not well understood."

Funders for this research include State of Texas Advanced Oil And Gas Resource Recovery (Starr) Program At The **Bureau of Economic Geology**.

Our news journalists obtained a quote from the research from University of Texas Austin: "We conducted prestack, simultaneous seismic inversion, and high-level petrophysical analysis to derive elastic properties of rocks to facilitate lithology identification and determination and distribution of the different carbonate facies. Our results show that (1) the Strawn Group in King County is dominated mostly by carbonates and (2) given the ratio of P- and S-wave velocity (Vp/Vs ratio), the carbonates can be separated into three facies: (a) high-Vp/Vs-ratio shelf-edge reef carbonates, in which the Vp/Vs ratio decreases linearly as porosity increases and the Vp/Vs ratio varies from ~2.1 to 2.6; (b) moderately low-Vp/Vs-ratio shelf (platform) carbonates, in which the Vp/Vs ratio also decreases as porosity increases and in which the Vp/Vs ratio ranges from ~1.75 to 2.15; (c) extremely low-Vp/Vs-ratio slope and basin carbonates, in which the Vp/Vs ratio, although appearing to be almost constant for a wide range of porosity, increases as porosity increases, and in which most Vp/Vs-ratio values appear to range from ~1.5 to 2."

According to the news reporters, the research concluded: "Results of a through c can be summarized thusly: the Vp/Vs ratio of reef carbonates >the Vp/Vs ratio of platform carbonates and >the Vp/Vs ratio of slope and basin carbonates in the study area."

For more information on this research see: Prestack Seismic Velocity Ratio Evaluation of a Mixed Siliciclastic-Carbonate Formation: Case Study from the Strawn Group on the Eastern Shelf Texas. Energies, 2023,16(2037):2037. (Energies - <http://www.mdpi.com/journal/energies>). The publisher for Energies is MDPI AG.

A free version of this journal article is available at <https://doi.org/10.3390/en16042037>.

Our news editors report that additional information may be obtained by contacting Osareni C. Ogiesoba, **Bureau of Economic Geology**, University of Texas Austin, Austin, TX 78713-8924, United States. Additional authors for this research include Shuvajit Bhattacharya, Sarp Karakaya, Trey Cortez.

Keywords for this news article include: University of Texas Austin, Austin, Texas, United States, North and Central America, Anions, Alkalies, Carbonates, Carbonic Acid.

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