

Deposition and diagenesis in a marine-to-evaporite sequence - Permian upper Wolfcamp Formation and lower Wichita Group, Palo Duro Basin, Texas Panhandle

Bureau of Economic Geology, University of Texas at Austin - Reports of Investigations (31)

Description: -

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Allen, William, -- 1532-1594.

Wichita Group (Tex. and Okla.)

Wolfcamp Formation (Tex. and N.M.)

Geochemistry -- Texas -- Palo Duro Basin.

Carbonates.

Anhydrite -- Texas -- Palo Duro Basin.

Diagenesis -- Texas -- Palo Duro Basin.

Geology, Stratigraphic -- Permian.

Sedimentation and deposition -- Texas -- Palo Duro

Basin. Deposition and diagenesis in a marine-to-evaporite sequence - Permian upper Wolfcamp Formation and lower Wichita Group, Palo Duro Basin, Texas Panhandle

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Windy pine paper -- no. 2

no. 195.

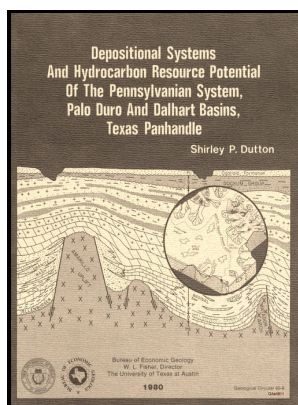
Report of investigations (University of Texas at Austin. Bureau of Economic Geology) ;

no. 195

Report of investigations ; Deposition and diagenesis in a marine-to-evaporite sequence - Permian upper Wolfcamp Formation and lower Wichita Group, Palo Duro Basin, Texas Panhandle

Notes: Includes bibliographical references (p. 32-34).

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Tags: #Deposition #and #Diagenesis #in #a #Marine

Deposition and diagenesis in a marine

The successive presence of four compositionally distinct pore fluids in Lower Permian strata of the Palo Duro Basin is interpreted from lithologic, mineralogic, and petrographic evidence of depositional conditions, isotopic compositions of carbon, oxygen, and strontium in limestone and dolomite, limited data from fluid inclusions in sphalerite, and chemical and isotopic analyses of formation water.

References: Permian Basin Bibliography

Delineation of Unrecovered Mobile Oil in a Mature Dolomite Reservoir: East Penwell San Andres Unit, University Lands, West Texas, by R. Wolfcamp Anonymous, 1985, Permian patch-reef reservoir, North Anderson Ranch field, southeastern New Mexico, in Roehl, P.

RI0195. Deposition and Diagenesis in a Marine

Spraberry Anonymous, 2002, Waterflood performance in the naturally fractured Spraberry Trend Area, West Texas: Proceedings, Conference on Naturally Fractured Reservoirs, Oklahoma City, Oklahoma, June 3—4: Mewbourne School of Petroleum and Geological Engineering, University of Oklahoma, Oklahoma Geological Survey, 18 p.

References: Permian Basin Bibliography

This discrepancy records either a previously unrecognized excursion in the sulfur isotope age curve or inadequate cross-calibration of the two isotope curves. Carbonate mudstone the primary Wolfcamp lithology and bedded nodular anhydrite the primary Wichita lithology have strontium isotopic compositions that indicate a Leonardian age, whereas sulfur isotopic compositions suggest an older Wolfcampian time of precipitation.

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