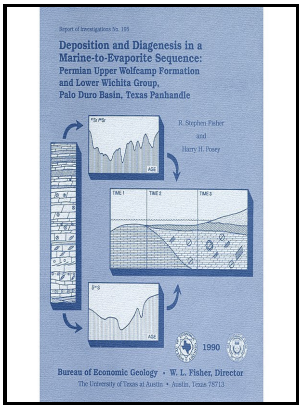
# Deposition and diagenesis in a marine-to-evaporite sequence - Permian upper Wolfcamp Formation and lower Wichita Group, Palo Duro Basin, Texas Panhandle

## Bureau of Economic Geology, University of Texas at Austin - Carbon and Sulfur Isotope Stratigraphy of the Permian and Adjacent Intervals




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
-
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
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**RI0195D. Deposition and Diagenesis in ...Permian Upper Wolfcamp Formation and Lower Wichita Group...**

In this study, we combine lithologic, mineralogic, and petrographic evidence of depositional conditions with the isotopic compositions of carbon, oxygen, sulfur, and strontium to determine the geochemical conditions during deposition and diagenesis. Samples from nearshore locations show depleted carbon and oxygen isotopic compositions that reflect the influxof terrestrial organic carbon and meteoric water. Strontium and sulfur isotopic compositions and petrographic relations indicate that bedded nodular mosaic Wichita and unaltered replacive nodular Wolfcamp anhydrite precipitated from Early Permian seawater.

**RI0195. Deposition and Diagenesis in a Marine**

Deposition and Diagenesis in a Marine-to-Evaporite Sequence: Permian Upper Wolfcamp Formation and Lower Wichita Group, Palo Duro Basin, Texas Panhandle, by R. Leonard Anonymous, 2002, Geological controls on reservoir development in a Leonardian Lower Permian carbonate platform reservoir, Monahans field, west Texas: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. The first A he received was in Frederick Jackson Turners course on American history in the spring term of his junior year, when he was also put on probation for failing French-the language in which he later published three books.

**RI0195D. Deposition and Diagenesis in ...Permian Upper Wolfcamp Formation and Lower Wichita Group...**

Hydrogeology of the Northern Segment of the Edwards Aquifer, Austin Region, by R. Samples from nearshore locations show depleted carbon and oxygen isotopic compositions that reflect the influxof terrestrial organic carbon and meteoric water.

**Deposition and diagenesis in a marine**

In this study, we combine lithologic, mineralogic, and petrographic evidence of depositional conditions with the isotopic compositions of carbon, oxygen, sulfur, and strontium to determine the geochemical conditions during deposition and diagenesis. Sulfur and strontium isotopic compositions of anhydrite samples Citation Fisher, R. Carbon, oxygen, and strontium isotopic compositions of limestone and dolomite mudstones 3.

**Books: 'Permian Basin'**

These strata also contain a widespread porous and permeable interval that currently comprises a deep-basin brine aquifer system.

**RI0195D. Deposition and Diagenesis in ...Permian Upper Wolfcamp Formation and Lower Wichita Group...**

Loss of function of tumor suppressor genes is assumed to be the first step in the majority of solid cancers, whereas in the development of leukemia and lymphoma the first step appears to be the activation of a proto-oncogene into an oncogene, e. 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.

**Carbon and Sulfur Isotope Stratigraphy of the Permian and Adjacent Intervals**

Permian seawater that initially filled pore spaces in Wolfcamp sediments was replaced by marine evaporite brine during deposition of overlying Wichita dolomite and anhydrite. You can also download the full text of the academic publication as pdf and read online its abstract whenever available in the metadata. Similarity in the sulfur and strontium isotopic compositions of Wolfcamp and Wichita anhydrite suggests that dolomitization of carbonate mudstone and displacive growth of anhydrite nodules in Wolfcamp strata occurred during reflux of Wichita evaporite brine.

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