

Abstract:

West Bernard Area, Wharton County, Texas, by W. F. Cooke, Jr.\*

The West Bernard area is in northern Wharton County, Texas, 60 miles west of Houston. It encompasses approximately 120 square miles and includes eight gas fields. Its total gas reserve (650 billion cubic feet) is mostly in two fields - West Bernard, a large low-relief Yegua anticline, and Spanish Camp, a prominent Miocene anticline. The most important and outstanding structural element is a Frio-Vicksburg isopachal anticline which covered the entire area. Stratigraphy is a major factor in effecting accumulation, particularly in formation of many small pools. The most interesting and important stratigraphic feature is the West Bernard field Yegua Clodine-sand bar, which contains approximately one-fourth of the area's gas reserves.

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