Corney Bayou Field - Smackover
T21N-RIW and R2W
Union Parish, Louisiana

B. Earl Raborn  Fortune Gas and Oil, Inc.  May, 1986

Discovery Data - "A" Zone

Exploration Method: Subsurface geology
Well: Woods & Deas #1 T. W. Elliott
Location: NW NW, Section 30-T21N-RIW
Total Depth: 10,192'
Completion Date: February 26, 1980
Perforations: 10,182.5'-10,190.5'
Initial Potential: Flowed 130 BOPD and 150 MCFGPD; 7/64" choke; FTP 1154 psi

Discovery Data - "B" Zone

Exploration Method: Subsurface geology
Well: Mobley Oil #1 Bollier
Location: SE SW, Section 24-T21N-R2W
Total Depth: 10,616'
Completion Date: May, 1981
Perforations: 10,310'-10,326'
Initial Potential: Flowed 623 BOPD and 1150 MCFGPD; 12/64" choke;
Gr. 53.2° API; FTP 2855 psi; GOR 1846:1

Nature of Trap

Corney Bayou Field is a structural-stratigraphic trap formed by the pinchout of an east-west striking oolitic shoal that traverses a broad south plunging nose. The reservoir is limited down dip by an oil-water contact.

Structure

The structure is a broad plunging nose which dips approximately 4° to the south.

Stratigraphy of Reservoir Rock

The Smackover "A" reservoir contains at least two very fine- to coarse-grained oolitic limestone bars which are distinguished by different pressures. These oolitic bars are separated by a bed of micritic limestone. The "A" zone fairway extends westward from the field approximately 12 miles suggesting that this interval represents a shoreline trending oolitic shoal or carbonate beach front deposit.

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