

OCT 27 1986

STATE OIL AND GAS BOARD
A. Richard Henderson, Supervisor

BEFORE THE STATE OIL AND GAS BOARD
OF THE STATE OF MISSISSIPPI

RE: PETITION OF ASHWOOD FIELD UNIT,
R.O.C., OPERATOR, FOR APPROVAL
OF REPRESSURING BY CROSS FLOW
ASHWOOD FIELD
WILKINSON COUNTY, MISSISSIPPI

DOCKET NO. 257-86-512

ORDER NO. 418-86

O R D E R

THIS MATTER came on for hearing on the Amended Petition of Ashwood Field Unit, seeking approval to repressure the Ashwood Gas Pool by cross flow, and the Board being fully advised, does find as follows:

1.

Proper, due and legal notice for the meeting of this Board to consider this Petition has been given as required by law and the rules of this Board, and due, legal and sufficient proofs of publication of notice are on file with this Board. The Board does further adjudicate that it has full and complete jurisdiction of the subject matter to hear and determine this Petition at this time and place.

2.

This Board approved the unitization of the Ashwood Gas Pool by Order 123-86 dated March 19, 1986, and Order No. 203-86 dated April 19, 1986. Pursuant to said unitization, a technical subcommittee was formed to determine the best method for repressuring the Ashwood Gas Pool for enhanced recovery. The optimum procedure for repressuring is to allow water from the Lower Tuscaloosa Massive Sand to flow into the partially depleted Ashwood Gas Pool to sweep the remaining gas, condensate and oil into a portion of the reservoir where it can be recovered through a producing well.

3.

The Lower Tuscaloosa Massive Sand is located beneath the Ashwood Gas Pool. Ashwood Field Unit proposed to rework the Cunningham-Stockett Well, the Sessions-Speight-Stockett Well and the DeLee Scott Well so that water from the Lower Tuscaloosa Massive Sand will flow into these well bores up hole to the perforated intervals where the Ashwood Gas Pool is encountered. Since the water from the Lower Tuscaloosa Massive Sand has more pressure than the partially depleted Ashwood Gas Pool, the water will flow into the Ashwood Gas Pool and sweep the remaining gas, condensate and oil up structure to a producing well for recovery of these hydrocarbons. This procedure has been effective in other secondary recovery operations and is authorized by the unit agreements for the Ashwood Field and the aforesaid Orders unitizing said field.

4.

The proposed water flood by cross flow will aid the recovery of remaining hydrocarbons in the Ashwood Gas Pool which are not otherwise recoverable. There will be no damage to any hydrocarbons or water bearing formation. The water will be prevented from moving up the well bores of the aforesaid wells by mechanical equipment now in said wells. There are no underground sources of drinking water, or fresh water formations or hydrocarbon formations which will be affected by the proposed procedure.

IT IS, THEREFORE, ORDERED AND ADJUDGED that Ashwood Field Unit, R.O.C. Operator, be, and is hereby authorized and permitted to convert said wells to allow cross flow as above set forth and operate said wells in the manner more particularly set forth above.

IT IS FURTHER ORDERED AND ADJUDGED that permittee shall

acquire all other permits, if any, required by any other
permitting authority.

SO ORDERED this the 15 day of October, 1986.

MISSISSIPPI STATE OIL & GAS BOARD

By: 

CHAIRMAN