

IN THE STATE OIL AND GAS BOARD OF MISSISSIPPI

DOCKET NO. 119-68-145

GLASSCOCK FIELD,
ADAMS COUNTY,
MISSISSIPPI.

ORDER NO. 233-68

O R D E R

This day this cause came on for hearing before the Mississippi State Oil & Gas Board at its regular meeting of September, 1968, and the Board finding that due, legal and sufficient notice of said meeting and hearing of this docket has been given within the time, manner and form prescribed by statute and the rules and regulations of this Board, and that due, legal and sufficient proofs of publication are on file with the Board, and that said Board has full jurisdiction of the parties and the subject matter to hear this cause for the purpose of considering the approval of that certain Unit Operating Agreement and that certain Unit Agreement of the Glasscock Breaux D Unit of the Glasscock Field, Adams County, Mississippi, for the adoption of special field rules to effectuate the purposes of said agreements, and for approval of and authority to complete and operate a water injection well in connection with a waterflood project; and

The Board finding that all of the owners of separate holdings consisting of undivided interests in oil, gas and mineral leases have heretofore executed a "Unit Operating Agreement" and a "Unit Agreement", and that all of the owners of royalty, overriding royalty, and interests in production have executed such "Unit Agreement", all of which cover and affect all of the Minter Sand Pool of the Wilcox Formation underlying the unit area, described as follows, to-wit:

SW/4 of NE/4, Section 2; SE/4 of NE/4, Section 2
NE/4 of NE/4, Section 2; NW/4 of NE/4, Section 2
NW/4 of NW/4, Section 1; SW/4 of NW/4, Section 1
NW/4 of SE/4, Section 2; NE/4 of SW/4, Section 2
SE/4 of NW/4, Section 2, T4N, R4W, Adams County,
Mississippi;

and

The Board further finding that the lands above described are underlain by common accumulations of hydrocarbons in the Minter Sand of the Wilcox Formation, and that the operation and development of the oil and gas in the unitized area as a unit would promote conservation, protect coequal and correlative rights, prevent avoidable waste, and enhance the ultimate recovery of the hydrocarbons, consistent with the principles of conservation in force and in effect in this state, and the prevention of waste, and the protection of the coequal and correlative rights of all parties in interest therein, and that such recovery can best be accomplished through the operation and development of said resources as a unit;

and

The Board further finding that said agreements were made in the interest of protecting the correlative rights of all of the owners in the unit area of the Minter Sand Producing Pool of the Wilcox Formation of the Glasscock Field, Adams County, Mississippi, and are designed to bring about the development and operation of said unit under a plan of cooperative development and operation, and that said agreements are, in all their terms and provisions, reasonable and fair to all interested parties, and do not violate any provisions of the existing law relating to trusts, monopolies or contracts, or combinations in restraint of trade; and

The Board further finding and adjudging that said "Unit Operating Agreement" and "Unit Agreement" of the Glasscock Breaux D Unit of the Glasscock Field, Adams County, Mississippi, should be approved by this Board within the contemplation of Section 10(e) of Chapter 256 of the Mississippi Laws of 1948;

NOW, THEREFORE, it is accordingly ordered and adjudged by said Board that said "Unit Operating Agreement" and "Unit

Agreement", true and correct copies of which were attached as Exhibits "A" and "B", respectively, to the application for approval filed herein, be, and the same are hereby, approved as cooperative agreements within the contemplation of Section 10(e) of House Bill 80 of the Acts of the Mississippi Legislature of 1948, and said agreements shall not be held or construed to violate any of the statutes of this State relating to trusts, monopolies, or contracts, or combinations in restraint of trade.

And the Board further finding that in order to effectuate the purposes of said agreements, and to achieve the conservation objectives to be obtained under the unit basis of operation, and to enable the unit operator to undertake and effectuate such pressure maintenances and waterflooding of the Minter Sand Pool of the Wilcox Formation underlying the unitized area as may be necessary and proper to prevent avoidable waste and enhance ultimate recovery from the unit area, it is necessary and proper that special field rules be adopted;

NOW, THEREFORE, it is accordingly ordered and adjudged by said Board that the following Special Rules be, and the same are hereby, adopted for the Glasscock Field, Adams County, Mississippi:

"SPECIAL FIELD RULES

Special Field Rules for the Glasscock
Field, Adams County, Mississippi

The Glasscock Field as used herein is that area located in Sections 1 and 2, Township 4 North, Range 4 West, Adams County, Mississippi, including all extensions thereof underlain by the Minter Sand Pool of the Wilcox Formation as hereinafter described.

The Minter Sand Pool, as used herein, shall be construed to mean those strata of the Wilcox Formation productive of oil which are equivalent to the interval between the depths of 6902 feet and 6918 feet in the Serio-Punches Breaux Well No.

D-4, located in Section 2, Township 4 North, Range 4 West, Adams County, Mississippi, as indicated on the electric log of said well.

Rule 1 - Spacing of Oil Wells.

A field-wide drilling unit is hereby established for each and all oil wells drilled and completed as consisting the Unit Area affected by the Unit Agreement, Glasscock Field, Adams County, Mississippi, underlain by the Minter Sand of the Wilcox Formation.

Rule 2 - Allocation of Production - Oil Wells

A - The allowable production from the field-wide unit is established and set at 600 barrels per day, and may be produced by any well or wells on said unit; provided, however, that no well shall be permitted to operate in such manner as to cause waste as defined by the laws of the State of Mississippi, or otherwise be detrimental to the pool, and the production from any such well shall be subject to such adjustments by the Board as it may deem necessary.

Rule 3 - Pressure Maintenance and Waterflood

A - Pressure maintenance and waterflooding is authorized. The operator of the Waterflood Program in the Waterflood Area of the Minter Sand Pool of the Wilcox Formation of the Glasscock Field, Adams County, Mississippi, known as the Glasscock Breaux D Unit, is hereby authorized to conduct pressure maintenance operations in the Waterflood Area of the Minter Sand producing pool of the Glasscock Field, Adams County, Mississippi, by completing an injection well located at a location which is 330' from the West line and 330' from the South line of NW/4 of NW/4, Section 1, T-4-N, R-4-W, and by equipping said well for salt water injection and to commence operations thereafter by the injection of water or salt water into said well and into the Minter Sand Pool within the Waterflood Area known as the Glasscock Breaux D Unit.

B - The conversion of producing wells to injection wells shall be by notice and hearing before the Mississippi State Oil and Gas Board, and such conversion shall not affect allowable of the Unit as determined by Rule 2.

C - The Waterflood Area known as the Glasscock Breaux D Unit is located within the following described lands of the Glasscock Field, to-wit:

SW/4 of NE/4, Section 2
SE/4 of NE/4, Section 2
NE/4 of NE/4, Section 2
NW/4 of NE/4, Section 2
NW/4 of NW/4, Section 1
SW/4 of NW/4, Section 1
NW/4 of SE/4, Section 2
NE/4 of SW/4, Section 2
SE/4 of NW/4, Section 2,
Township 4 North, Range
4 West, Adams County, Mississippi.

Rule 4 - Measurement of Production

The operator of each producing lease shall maintain proper separators and stock tanks or metering devices and such connections thereto as are necessary to continuously measure the total production from such leases. Where metering devices are used, as herein provided, the production may be comingled in a common storage system. And if, upon a sale therefrom, a variance exists between the measurement from the common storage system and the total measurement of the production of all the leases comingled in such common storage system, then such variance shall be allocated back to each of the leases producing into common storage system proportionately to the production measured from each lease.

Rule 5 - Equipment for Tests

A - Each producing well shall be so equipped that gas/oil ratio tests and bottom hole or other pressure tests may be made.

B - The operator of said unit shall maintain proper separators and stock tanks or metering devices and such connections thereto as will permit the adequate testing of each individual well under usual operating conditions without the necessity of closing in any other well.

Rule 6 - Applicability of Statewide Rules

A - All rules and regulations contained in Statewide Order No. 201-51, and amendments thereto, not specifically covered by the foregoing rules, are hereby adopted and shall apply to said field.

B - The Board expressly reserves the right, after notice and hearing, to alter, amend or repeal any and all of the foregoing rules and regulations."

And the Board further finding that the deepest fresh water sand in said field is at the approximate depth of -1270 feet subsea, and the shallowest producible oil producing sand in said field is at approximately -6854 feet subsea in the proposed input well; and

That there has heretofore been drilled a well through the Minter Sand on said Glasscock Breaux D Unit, on a unit and at a location described as follows:

Unit Description:

Northwest Quarter of Northwest Quarter (NW/4 of NW/4), Section 1, Township 4 North, Range 4 West.

Well Location:

330' from West line and 330' from South line of said unit,

and that the injection of salt water into said well, completed in the manner set forth in the Petition, will accomplish a repressuring, or waterflooding, of the Minter Producing Pool of the Wilcox Formation in the Waterflood Area known as "Glasscock Breaux D Unit" without contaminating fresh water, and will promote conservation; that the injection of salt water into the proposed zone will not be detrimental to any oil, gas or fresh water bearing sand in the field; the volume of salt water to be injected initially will be approximately 1,000 barrels per day, ultimately increasing according to reservoir response.

It is, therefore, ordered and adjudged that Meason Operating Company, the Operator of the Glasscock Breaux D Unit,

be, and it is hereby authorized to complete the well hereinabove described as an input well, such well to be known as the "Meason Operating Company, et al, Glasscock Breaux D Unit Input Well No. 1", such well to be completed and operated as a salt water injection well in the following manner, to-wit:

- a. Run 2-7/8" O.D. tubing to a depth of +/- 6500', with tubing set on a hook wall packer.
- b. Install well head with adequate valves and connections to withstand expected injection pressure.
- c. Install a filtering system and properly designed pump to utilize for salt water injection.
- d. Gather salt water from wells of fields surrounding the Glasscock Field for salt water injection.
- e. Initially inject salt water into the Breaux D-5 at a rate of 1,000 barrels per day, at an anticipated pressure of +/- 160 psi.

ORDERED AND ADJUDGED this the 19th day of September, 1968.

MISSISSIPPI STATE OIL & GAS BOARD

By Robert M. Fernald
Chairman