

BEFORE THE STATE OIL AND GAS BOARD OF MISSISSIPPI

FILED FOR RECORD

RE: PETITION OF DENBURY ONSHORE, LLC TO  
AMEND THE SPECIAL FIELD RULES FOR THE  
LAZY CREEK FIELD, PIKE COUNTY,  
MISSISSIPPI

JUN 15 2005

STATE OIL AND GAS BOARD  
WALTER BOONE, SUPERVISOR

DOCKET NO. 60-2005-168

ORDER NO. 141-2005

ORDER

THIS CAUSE came to be heard on the Petition of Denbury Onshore, LLC ("Petitioner") the Board to amend the Special Field Rules for the Lazy Creek Field in Pike County, Mississippi; and

WHEREAS, the Board finds that due, proper, and legal notice of the meeting of the Board for the purpose of considering and taking action with respect to such matter was given in the manner required by the rules and regulations of the Board; that due, legal, and sufficient proofs of publication and service are on file with the Board; and that the Board has full jurisdiction of the subject matter to hear and determine same; and

WHEREAS, pursuant to said Notice, a public hearing was held by said Board in the Hearing Room, Suite E, 500 Greymont Avenue, Jackson, Mississippi, commencing on May 18, 2005, at 9:30 o'clock a.m. at which hearing all persons present who desired to be heard on said matter were heard and all testimony and the evidence were duly considered by those present at said meeting; and

WHEREAS, the Board has fully considered said matter and the evidence and recommendations made in said hearing and finds as follows:

1.

Petitioner is the current operator of the Field. Special Field Rules for the Field were last adopted or amended for this Field in Docket No. 117-2001-168.

2.

The Field contains one unitized pool. Petitioner installed a CO<sub>2</sub> tertiary oil recovery program in the Field which is operated in conjunction with a similar program in the West Lazy Creek, West Little Creek, and Little Creek Fields. The tertiary oil recovery program will require that the crude oil be commingled from the various unitized fields because of the common facilities necessary to inject CO<sub>2</sub> into the ground and separate the crude oil, CO<sub>2</sub>, water, and natural gas produced from each field. Finally, Petitioner will use a central tank

battery from which all oil sales from all fields will be made.

3.

Petitioner seeks authority to commingle production from all wells at one facility and prorate the production to each well, field, and unit based on individual well tests which will be performed not less than once per month.

4.

The amendment to the Special Field Rules will promote conservation, protect the equal and correlative rights of all owners in interest, avoid the drilling of unnecessary wells and permit oil and gas to be produced which would not otherwise be recoverable.

**IT IS, THEREFORE, ORDERED AND ADJUDGED** by the State Oil and Gas Board of Mississippi that the Special Field Rules for the Lazy Creek Field shall be and hereby are amended as follows:

**SPECIAL FIELD RULES  
LAZY CREEK FIELD  
PIKE COUNTY, MISSISSIPPI**

**A. FIELD AREA**

The Lazy Creek Field, as used herein, is comprised of the following lands:

**TOWNSHIP 4 NORTH, RANGE 8 EAST**

**Section 4:**

S/2 of the SW/4 of the SW/4

S/2 of the SE/4 of the SW/4

S/2 of the SW/4 of the SE/4

**Section 8:**

SE/4 of the NW/4

SW/4 of the NE/4

SE/4 of the NE/4

NE/4 of the SE/4

NW/4 of the SE/4

NE/4 of the SW/4

SE/4 of the SW/4

SW/4 of the SE/4

SE/4 of the SE/4

**Section 9:**

NW/4 of the NE/4

NE/4 of the NW/4

NW/4 of the NW/4

SW/4 of the NW/4

SE/4 of the NW/4

SW/4 of the NE/4

W/2 of the SE/4 of the NE/4

NE/4 of the SE/4

NW/4 of the SE/4

NE/4 of the SW/4

NW/4 of the SW/4

SW/4 of the SW/4

SE/4 of the SW/4

SW/4 of the SE/4

SE/4 of the SE/4

**Section 10:**

SW/4 of the SW/4

**Section 15:**

NW/4 of the NW/4

SW/4 of the NW/4

**Section 16:**

NE/4 of the NE/4

NW/4 of the NE/4

NE/4 of the NW/4

NW/4 of the NW/4

SW/4 of the NW/4

SE/4 of the NW/4

SW/4 of the NE/4

SE/4 of the NE/4

NE/4 of the SE/4

NW/4 of the SE/4

NE/4 of the SW/4

SW/4 of the SE/4

SE/4 of the SE/4

**Section 17:**

NE/4 of the NE/4

NW/4 of the NE/4

SE/4 of the NE/4

(1) **The Lower Tuscaloosa Pool** as used herein, shall be construed to mean those strata of the Lower Tuscaloosa Formation productive or formerly productive of oil and gas in the interval between 10,596 feet to 10,896 feet in the Shell Oil Company - Board of Supervisors No. 16-6 Well, in the SE<sup>1</sup>/<sub>4</sub> of the NW<sup>1</sup>/<sub>4</sub> of Section 16, Township 4 North, Range 8 East, Pike County, Mississippi, as indicated on the electrical log of said well, including those strata which are in communication therewith.

**B. RULES**

**RULE 1 - SPACING OF OIL WELLS**

(1) Every well drilled and completed in the Lower Tuscaloosa Pool located within the Unit Area of the Lazy Creek Field Unit shall be located not less than 100 feet from any exterior boundary of any Unit boundary with the operator being granted the flexibility of drilling, completing and operating, upon approval of the Supervisor, as many wells as deemed necessary by the operator and the Oil and Gas Board Supervisor for the efficient operation of said Units. When a well is drilled at any location less than 100 feet from any exterior boundary of the Unit Area, a directional survey shall be run and submitted to the Board prior to the issuance of an allowable.

**RULE 2 - LAZY CREEK UNIT**

(1) The Lazy Creek Field Unit is that portion of the following lands lying within the Lazy Creek Field, underlain by the unitized portion of the Lower Tuscaloosa Pool ("Unitized Formation") and described as follows:

**TOWNSHIP 4 NORTH, RANGE 8 EAST**

**Section 4:**

S/2 of the SW/4 of the SW/4

S/2 of the SE/4 of the SW/4

S/2 of the SW/4 of the SE/4

**Section 8:**

SE/4 of the NW/4

SW/4 of the NE/4

SE/4 of the NE/4

NE/4 of the SE/4

NW/4 of the SE/4

NE/4 of the SW/4

SE/4 of the SW/4

SW/4 of the SE/4

SE/4 of the SE/4

**Section 9:**

NW/4 of the NE/4

NE/4 of the NW/4

NW/4 of the NW/4

SW/4 of the NW/4

SE/4 of the NW/4

SW/4 of the NE/4

W/2 of the SE/4 of the NE/4

NE/4 of the SE/4

NW/4 of the SE/4

NE/4 of the SW/4

NW/4 of the SW/4

SW/4 of the SW/4

SE/4 of the SW/4

SW/4 of the SE/4

SE/4 of the SE/4

**Section 10:**

SW/4 of the SW/4

**Section 15:**

NW/4 of the NW/4

SW/4 of the NW/4

**Section 16:**

NE/4 of the NE/4

NW/4 of the NE/4

NE/4 of the NW/4

NW/4 of the NW/4

SW/4 of the NW/4

SE/4 of the NW/4

SW/4 of the NE/4

SE/4 of the NE/4

NE/4 of the SE/4

NW/4 of the SE/4

NE/4 of the SW/4

SW/4 of the SE/4

SE/4 of the SE/4

**Section 17:**

NE/4 of the NE/4

NW/4 of the NE/4

SE/4 of the NE/4

(2) "Unitized Formation" is the subsurface portion of the Unit Area described as those strata of the Tuscaloosa Formation productive or formerly productive of oil and gas in the interval between 10,596 feet and 10,896 feet in the Shell Oil Company - Board of Supervisors No. 16-6 Well located in the SE<sup>1</sup>/<sub>4</sub> of the NW<sup>1</sup>/<sub>4</sub> of Section 16, Township 4 North, Range 8 East, Pike County, Mississippi, as indicated on the composite log of said well, including those strata which are in communication therewith.

(3) Spacing of Wells in Lazy Creek Unit

(a) Notwithstanding any other provisions contained in these Special Field Rules, the location of injection and production wells in the Lower Tuscaloosa Pool shall be selected by the operator and shall be governed by the standards of geology and petroleum engineering designed to promote the greatest ultimate recovery of hydrocarbons contained in the pool. However, no well may be drilled, injected into or produced from said pool nearer than 100 feet from any exterior boundary of the fieldwide unit, except upon permit issued by the Mississippi State Oil and Gas Board, after notice and hearing.

(b) The operator may drill wells utilizing directional or horizontal drilling techniques designed to increase the ultimate recovery of hydrocarbons contained in the pool without notice and hearing; provided, however, that (a) no portion of the drainhole of any such well so drilled shall be nearer than 100 feet from any exterior boundary of the Unit, except upon permit issued by the Mississippi State Oil and Gas Board, after notice and hearing, and (b) the operator shall file a directional survey and other information required by rule or written policy of the Board after completion.

(4) Pressure Maintenance and Secondary Recovery Program Authorized

The operator of the Unit, is hereby authorized to conduct and carry out secondary and tertiary recovery, pressure maintenance, repressuring operations, cycling operations, water flooding operations, and the injection of extraneous substances in the Unit and any combination thereof, or any other form of joint effort calculated to substantially increase the ultimate recovery of oil or gas, or both, from the fieldwide unit as is authorized by the Plan of Unitization placed into effect by the Mississippi State Oil and Gas Board. The operator may use for injection purposes existing wells located in said Unit which may be converted to injection wells or wells may be drilled on said fieldwide unit for such purposes. Any such wells drilled as injection wells or converted to injection wells by operator on the fieldwide unit as a part of pressure maintenance and/or secondary recovery operations may be approved by the Mississippi State Oil and Gas Board on administrative permit, without notice and hearing, upon the operator filing with the Board a duly executed FORM 2, the required permit fee for each such well, and all evidence and information required

under Statewide Rule 63.

(5) Allocation of Production

The allowable for the Unit shall be established by the Mississippi State Oil and Gas Board. The Unit is hereby granted a temporary allowable of 2,500 barrels of oil per day until otherwise changed by the Board. The allowable production of the said fieldwide unit may be produced by any well or wells on said fieldwide unit; provided, however, that no well shall be operated in such a manner as to cause waste as defined by the Laws of the State of Mississippi.

(6) Surface Storage, Measurement and Transfer Systems

(a) The operator of the Unit may maintain such separators, stock tanks, metering devices, connections and storage facilities as it deems necessary to reasonably measure the total production from the fieldwide unit. Separate measurement or storage for the wells and leases within the fieldwide unit shall not be necessary.

(b) Automatic custody transfer systems which automatically test, sample, measure and transfer the production from the operator to the purchaser are hereby authorized in said fieldwide unit. Such systems, if used, will be equipped with a sampling device which will take a representative sample of the total production passing through the system in order that the specific gravity and basic sediment and water content can be determined. Each custody transfer system, if used, will be equipped with a volume displacement type metering device which registers the volume of oil passed through it in barrels or multiples thereof.

(c) Operator shall have the right to use surface storage, measurement, and transfer systems of other fieldwide units in this area for all purposes so long as accurate measurement for production may be obtained.

**RULE 6 - MEASUREMENT PROCEDURES AND FACILITIES**

The Operator of the Field shall be permitted to commingle production at the surface



from the Lazy Creek, the West Lazy Creek, the West Little Creek, and the Little Creek Fields for collection and sale at a central tank battery as part of its secondary and tertiary oil recovery projects. This includes a central tank battery and a central facility for oil, water, and CO<sub>2</sub> production, cycling and injection operations. The oil and gas production from the Fields may be commingled in a common storage system. The Operator shall install a flowline, header and measurement system that allows each well in each of the four Fields to be separately and individually tested on a periodic basis, not less than once each month. If, upon a sale therefrom, a variance exists between the measurement from the common storage system and the measurement from the production of all the wells commingled in such common storage system, then such variance shall be allocated back to each of the wells producing into the common storage system proportionately to the production measured from each of the wells on the basis of the periodic tests.

(b) Each producing well shall be so equipped that gas/oil ratio and bottomhole or other pressure test may be made.

(c) Each producing well shall be connected to a metering system as will permit the adequate testing of each individual well under usual operating conditions without the necessity of closing in any other well. Each well shall be tested not less than once per month for allocation of fieldwide production and between individual units. Separators, stock tanks or measuring devices and connections thereto shall be subject to approval by the Supervisor.

#### **RULE 7 - AMENDMENT OF SPECIAL FIELD RULES**

The Board expressly reserves the right, after notice and hearing, to alter, amend or repeal any and all of the above rules and regulations, or to grant exceptions to all or any part thereof.

#### **RULE 8 - APPLICABILITY OF STATEWIDE RULES**

All rules and regulations contained in the Statewide Order No. 201-51, and any amendments thereto, are hereby adopted and shall apply to said field, to the extent not inconsistent with the above rules.


**\* \* \* End of Special Field Rules \* \* \***

**IT IS FURTHER ORDERED AND ADJUDGED** that this Order shall be in force and effect from and after May 18, 2005.

**IT IS FURTHER ORDERED AND ADJUDGED** that Petitioner shall acquire any other permits, if any, required by any other permitting authority.

**ORDERED AND ADJUDGED** this 15<sup>th</sup> day of June, 2005.

**STATE OIL AND GAS BOARD OF  
MISSISSIPPI**

  
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VICE CHAIRMAN  
(Acting Chairman)

**Prepared By:**

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