

BEFORE THE STATE OIL AND GAS BOARD OF MISSISSIPPI

RE: PETITION OF DENBURY ONSHORE, LLC TO
AMEND THE SPECIAL FIELD RULES FOR
THE SHARON FIELD TO ALLOW FOR
TUBINGLESS COMPLETIONS FOR SELMA
CHALK WELLS, JASPER AND JONES
COUNTIES, MISSISSIPPI

FILED FOR RECORD

JUN 28 2010

STATE OIL AND GAS BOARD
LISA IVSHIN, SUPERVISOR

DOCKET NO. 219-2010-D

ORDER NO. 356-2010

ORDER

THIS CAUSE came to be heard on the Petition of Denbury Onshore, LLC (“Petitioner”) requesting a the Board to amend the Special Field Rules for the Sharon Field to allow for tubingless completions for Selma Chalk Wells in Jasper and Jones Counties, Mississippi; and

WHEREAS, the Boards 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 June 16, 2010, at 10:00 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 has drilled numerous gas wells in the Pool in the Field. Special Field

Rules for the Field, were adopted as last amended, by Order of this Board in Docket No. 209-2009-34, Order No. 376-2009. This Petition relates strictly to the Pool which is defined as that certain strata of the Selma Chalk Formation productive of gas between the electric log measurements of 4,320 feet to 5,450 feet in the J. R. Helms No. 2 Well situated in the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 17, Township 10 North, Range 11 West, Jasper County, Mississippi and all such strata correlative thereto.

2.

The Pool, pursuant to the existing Special Field Rules, is currently spaced on 320 acre units. In Docket No. 547-2007-34, the Board amended certain spacing rules.

3.

The Special Field Rules should be amended to change the language dealing with spacing and to provide for tubingless completions. The natural gas produced from the Selma Chalk is clean gas with little CO₂ or other corrosive materials. Allowing tubingless completions will provide for more cost effective operations in the Field. In this manner, the producible gas underlying each unit will be adequately and reasonably recovered.

4.

The amendment of the existing Special Field Rules promotes conservation, protects the co-equal and correlative rights of all owners in interest, avoids the drilling of unnecessary wells, and permits gas to be produced from the Selma Chalk Gas Pool which would not otherwise be produced.

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

**SPECIAL FIELD RULES
SHARON FIELD
JASPER AND JONES COUNTIES, MISSISSIPPI**

A. FIELD AREA

The Sharon Field is comprised of that area:

TOWNSHIP 10 NORTH, RANGE 11 WEST
JASPER COUNTY, MISSISSIPPI

Sections 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, and 19

TOWNSHIP 10 NORTH, RANGE 11 WEST
JASPER AND JONES COUNTIES, MISSISSIPPI

Sections 20, 21, 29, and 30

TOWNSHIP 10 NORTH, RANGE 11 WEST
JONES COUNTY, MISSISSIPPI

Sections 28, 31, and 32

TOWNSHIP 9 NORTH, RANGE 11 WEST
JONES COUNTY, MISSISSIPPI

Sections 5 and 6

and all productive extensions thereof.

B. POOL DEFINITIONS

(1) **The Morrison Sand Gas Pool**, in the Sharon Field shall be construed to mean those strata productive of gas in the interval between 5,368 feet and 5,400 feet in the Frederick F. Mellon - No. 1 Board of Supervisors Well located 330 feet from the South line and 330 feet from the West line of Section 16, Township 10 North, Range 11 West, Jasper County, Mississippi, as indicated on the electric log of said well and all intervals correlative of said strata productive of gas.

(2) **The Eutaw Gas Pool**, as used herein, shall be construed to mean those strata of the Eutaw Formation productive of gas which can be correlated with the strata between the depths of 5,414 feet and 5,652 feet in the Frederick F. Mellon No. 1 Board of Supervisors Well located in the Southwest Quarter of the Southwest Quarter (SW $\frac{1}{4}$ of SW $\frac{1}{4}$) of Section 16, Township 10 North, Range 11 West, Jasper County, Mississippi.

(3) **The Selma Chalk Gas Pool**, as used herein, shall be construed to be all strata of the Selma Chalk Formation underlying said field productive of gas and which can be correlated with the strata between the depths of 4,320 feet to 5,450 feet in the J. R. Helms No. 2 Well, located in the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 17, Township 10 North, Range 11 West, Jasper County, Mississippi.

RULE 1 - SPACING OF GAS WELLS

A. With respect to the Selma Chalk Gas Pool, every gas well:

(1) Shall be located on a drilling unit consisting of 320 contiguous surface acres, or a governmental half section containing not less than 300 acres nor more than 340 acres.

(2) Any gas drilling unit not a governmental half-section must be completely encompassed by the perimeter of a rectangle 3735 feet by 5380 feet. Provided, however, no unit shall be permitted which will create island acreage.

(3) The wells shall be located at least 100 feet from every other drilling or producible well located in conformity with this Rule; however, this Rule shall not apply to the surface location of any well which is intentionally deviated to a regular bottom hole location at least 100 feet from every other drilling or producible well located in conformity with this Rule. As to such wells intentionally deviated, including horizontal wells, there shall be no restriction on the surface location so long as the bottom hole location is more than 100 feet from the bottom hole location of all other wells.

(4) The wells shall be located not less than 100 feet from every exterior boundary of the unit and two hundred feet from off unit wells located in the same pool, except in those cases where an exception has been previously granted by the Board after notice and hearing. As to wells intentionally deviated, including horizontal wells, there shall be no restriction on the surface location so long as the drainhole is more than 100 feet from every exterior boundary of the unit, and two hundred feet from the drainhole of all off unit wells. As to horizontal wells, all distances shall be measured from the completion interval herein referred to as the drainhole.

(5) Each 320 acre gas unit may contain up to twelve producing wells from the Selma Chalk Gas Pool with a full allowable for each increased density

well.

RULE 2 - 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 3 - SELMA CHALK GAS POOL LOGGING REQUIREMENTS

As to any well drilled solely to test the Selma Chalk Gas Pool, the Operator of each such well may elect, without obtaining any further approval, to forego running any and all electrical logs. In the event perforating logs are run, such logs shall be provided to the Board.

RULE 4 - SELMA CHALK UNIT MEASUREMENT

As to Selma Chalk Gas Pool wells, operators may measure production on an unit instead of an individual well basis, for increased density wells on such units.

RULE 5 - TUBINGLESS COMPLETIONS FOR SELMA CHALK WELLS

As to Selma Chalk Gas Pool, each such well may be produced without production tubing as an exception to Statewide Rule 18 and any other applicable rules, provided that the operator thereof takes proper measures to protect against any undue hazards, both underground and at the surface.

RULE 6 - FORCE INTEGRATION

A well which is to be drilled as an increased density well under these Special Field Rules on an established unit may have the drilling permit issued administratively, without notice or hearing, provided that the proposed well complies in all respects with these Special Field Rules and provided that the established unit has previously been force integrated pursuant to § 53-3-7(1) Miss. Code Ann., as amended, if the request is simply for "simple integration".

RULE 7 - 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 June 16, 2010.

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 28th day of June, 2010.

**STATE OIL AND GAS BOARD OF
MISSISSIPPI**



CHAIRMAN

Prepared By:

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