

IN THE STATE OIL AND GAS BOARD OF MISSISSIPPI

RE: AMENDED PETITION OF UNITED GAS  
PIPE LINE COMPANY FOR ADOPTION  
OF SPECIAL FIELD RULES FOR THE  
OPERATION OF THE JACKSON GAS  
STORAGE FIELD, HINDS AND RANKIN  
COUNTIES, MISSISSIPPI.

DOCKET NO. 79-75-74

ORDER NO. 212-75

O R D E R

THIS DAY this cause came on for hearing before the State Oil and Gas Board on the Amended Petition of United Gas Pipe Line Company for adoption of Special Field Rules for the operation of the Jackson Gas Storage Field, Hinds and Rankin Counties, Mississippi, such hearing being called for such purpose; and

The Board finding 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 and way provided by law and the rules and regulations of the Board, and that due, legal and sufficient proofs of publication 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 given, public hearing was held by said Board in the Second Floor Auditorium of the Woolfolk State Office Building, North West Street, Jackson, Mississippi, commencing on September 17, 1975, at which hearing all persons present who desired to be heard on said matter were heard and all testimony and 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 at the said hearing and finds as follows:

1. United Gas Pipe Line Company as owner of operating and storage rights in the depleted gas pool defined as the interval in the Selma Chalk Formation existing between 2,000 and 2,125 feet below sea level in the Jackson Gas Field, Hinds and Rankin Counties, Mississippi, has filed a Petition in Docket No. 78-75-74 for authorization to continue use of said interval in the Jackson Gas Field for the injection, storage and withdrawal of natural gas. The Jackson Gas Storage Field, as set out in the Petition in Docket No. 78-75-74, was originally approved in 1955 and Special Field Rules were adopted in the same year. Said Field Rules were adopted prior to the enactment into law of the Underground Natural Gas Storage Act.

2. Set out hereinbelow are the amended Special Field Rules for the suggested storage interval, Jackson Gas Storage Field, Hinds and Rankin Counties, Mississippi. Said Field Rules will prevent waste, protect the coequal and correlative rights of all owners in the area and will afford the Petitioner the opportunity to utilize said storage area for the benefit of the gas consumers relying upon the gas system of Petitioner and will be in the public interest. The procedures authorized by the said Field Rules will adequately protect all fresh water bearing zones and any and all other oil or gas bearing sands in the area and will not endanger life and property.

IT IS, THEREFORE, ORDERED AND ADJUDGED that the Special Field Rules for the Jackson Gas Storage Field be adopted as follows:

SPECIAL FIELD RULES FOR THE  
JACKSON GAS STORAGE FIELD,  
HINDS AND RANKIN COUNTIES, MISSISSIPPI

A. The Jackson Gas Storage Field, as used herein, is that area in Section 36, Township 6 North, Range 1 East; Sections 1, 2, 11, 12, 13 and 14, Township 5 North, Range 1 East; Sections 6, 7 and 18, Township 5 North, Range 2 East; and Section 31, Township 6 North, Range 2 East; Hinds and Rankin Counties, Mississippi, underlain by the gas storage reservoir occurring in the Selma Chalk Formation at the interval between 2,000 and 2,125 feet below sea level.

B. "Gas" as used herein shall mean natural gas of sufficient purity to be capable of use for residential purposes.

RULE NO. 1:

Wells may be drilled, or reworked, and utilized in the operation of the Jackson Gas Storage Field upon permit being issued for each such well pursuant to Rule 4(b) of the Statewide Rules and Regulations.

RULE NO. 2:

The proposed completion procedure for each well drilled or reworked for gas storage use shall be filed with Form 2.

RULE NO. 3:

The injection of gas into, storage within and withdrawal from the 2,000- to 2,125-foot Selma Chalk gas storage pool in the Jackson Gas Storage Field is hereby authorized.

RULE NO. 4:

The development, operation and maintenance of the Jackson Gas Storage Field shall be subject to the provisions of the following Statewide Rules and Regulations:

Rule 4 (b), Rule 5, Rule 6, Rule 10, Rule 11, Rule 12, Rule 13, Rule 16, Rule 17, Rule 23 (a), Rule 25, Rule 27, Rule 28, Rule 43, Rule 47, Rule 55, Rule 63, and the first paragraph of Rule 18. All other Statewide Rules and Regulations, or parts thereof, except those specifically referred to herein, should not be applicable to the operations conducted for gas storage purposes in the Jackson Gas Storage Field.

RULE NO. 5:

Any well drilled into the Jackson Storage Field for purposes other than utilization in the gas storage project which penetrates the gas storage interval shall be had and done in conformity with all applicable Statewide Rules and Regulations and in addition thereto, the following:

- (a) Surface casing shall be set and cemented at a point 850 feet below the surface of the ground to protect fresh water sand. Sufficient cement shall be used to fill the annular space back of the casing to the surface of the ground. Before drilling plug, mud shall be displaced with water, and casing tested in accordance with Statewide Rule 11.
- (b) First intermediate casing string shall be set and cemented at a point within 25 feet of the cap rock (Clayton Formation) but not below cap rock (Clayton Formation). Sufficient cement shall be used to fill the annular space back of the casing to a point 500 feet above the bottom of the intermediate casing string. The cement bond for the first intermediate casing string shall be evaluated by running a cement bond log survey. If the cement bond log does not indicate an effective seal, the operator shall perform remedial block squeeze and evaluate by cement bond log survey and continue this until seal has been effected. Before drilling plug, mud shall be displaced with water and a pump pressure of at least 1000 pounds per square inch shall be applied to said casing string. If, at the end of thirty minutes, the pressure gauge shows a drop of 150 pounds or more, the operator shall be required to take such corrective measures as is necessary so that said casing will hold said pressure for 30 minutes without a drop of more than 150 pounds on the gauge.

- (c) Second intermediate casing string shall be set and cemented at a point at least 200 feet below the cap rock (Clayton Formation) to protect the gas rock storage reservoir. Sufficient cement shall be used to fill the annular space back of the casing to the base of the first intermediate casing or to a point 500 feet above the bottom of the second intermediate string, whichever is the lesser. The cement bond for the second intermediate casing string shall be evaluated by running a cement bond log survey. If the cement bond log does not indicate an effective seal, the operator shall perform remedial block squeeze and evaluate by cement bond log survey and continue this until seal has been effected. Before drilling plug, mud shall be displaced with water and a pump pressure of at least 1500 pounds per square inch shall be applied to said casing string. If, at the end of 30 minutes, the pressure gauge shows a drop of 150 pounds or more, the operator shall be required to take such corrective measures as is necessary so that casing will hold said pressure for 30 minutes without a drop of more than 150 pounds on the gauge.

SO ORDERED, THIS THE <sup>15th</sup> 17th day of September, 1975.

MISSISSIPPI STATE OIL AND GAS BOARD

BY:

  
CHAIRMAN