

TO BE HELD AT 1:30 O'CLOCK P. M., ON NOVEMBER 1, 1955, AT THE AUDITORIUM LOCATED IN THE OFFICES OF THE NEW MEXICO OIL CONSERVATION COMMISSION, HOBBS, NEW MEXICO, BEFORE WARREN W. MANKIN, EXAMINER.

October 5, 1955

APPLICATION FOR HEARING TO INCREASE
SIZE OF NON-STANDARD GAS PRORATION UNIT

The Texas Company's
J. K. Rector Well No. 4, Eumont Gas Pool
Lea County, New Mexico

CASE 974

New Mexico Oil Conservation Commission
Box 871
Santa Fe, New Mexico

Attention: Mr. W. B. Macey

Gentlemen:

The Texas Company wishes to extend a 40-acre non-standard proration unit to a 120-acre non-standard proration unit in the Eumont Gas Pool, Lea County, New Mexico. This application is made under Rule 5 (a) of Order R-520. A request is also made to extend the field limits of the Eumont Gas Pool to include the N/2 of NE/4 of Section 31, T-21-S, R-36-E. This area is presently in the Jalmat Gas Pool.

In support of these requests, the following data are furnished:

1. The J. K. Rector Well No. 4 was completed May 4, 1937 at a total depth of 3,950 feet with an initial potential of 441 barrels of oil, 18.4 barrels of water, with a gas-oil ratio of 725 cubic feet per barrel of oil in nine and one-half hours, flowing without shot or acid. Water production increased until it was necessary to plug the well back. This work was performed in February, 1951. The well was plugged back to 3,786 feet and gas production was established through casing perforations from 3,758 feet to 3,785 feet. The well continued to make some water and the delivery pressure of the gas was not sufficient to meet the requirements of the gas purchaser. On August 18, 1952, a cast iron bridging plug was set at 3735 feet in the 7-inch casing and a calseal plug was built-up to 3726 feet. The casing was jet perforated from 3450 feet to 3565 feet, and this section acidized with 1000 gallons of 15 per cent acid. After workover, the well produced 1,885 MCF per day at 584 pounds per square inch tubing back pressure. The maximum build up was 669 pounds per square inch which was reached in two and one-quarter minutes after shut in. The absolute open flow was calculated at 3,150 MCF per day. The well is shut in from over production.

2. The proposed non-standard gas proration unit will consist of three contiguous quarter quarter sections as described below:

SW/4 of SE/4 of Section 30, T-21-S, R-36-E,
NE/4 of NE/4 of Section 31, T-21-S, R-36-E,
NW/4 of NE/4 of Section 31, T-21-S, R-36-E.

3. The entire proposed non-standard gas proration unit may reasonably be presumed to be productive of gas.

4. The length or width of the proposed non-standard gas proration unit does not exceed 5,280 feet.

5. The vertical limits of the Eumont Gas Pool includes the Yates, Seven

CASE 974 - CONT'D.

Rivers and Queen formations. The Texas Company J. K. Rector Well No. 4 is completed in the middle and lower Seven Rivers and, therefore, satisfies the vertical limit requirement of the Eumont Gas Pool.

In view of the above facts, the Texas Company requests the New Mexico Oil Conservation Commission to set a date for hearing the subject application. It is preferred that this case be heard as soon as possible at an Examiner hearing at Hobbs, New Mexico.

Yours very truly,

THE TEXAS COMPANY, PROD. DEPT.

W. H. Hahn
Petroleum Engineer

NEW MEXICO OIL & GAS ENGINEERING COMMITTEE
HOBBS, NEW MEXICO
October 14, 1955