

OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO.

JUL 28 1952

BEFORE THE  
OIL CONSERVATION COMMISSION  
STATE OF NEW MEXICO

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TRANSCRIPT OF HEARING

Case N o. 387

July 24, 1952.

CASE 387

In the matter of the application of Amerada Petroleum Corporation for an order permitting dual completion of its State "MA" No. 1 well, Moore-Devonian pool, SW/4 SW/4 Sec. 24, T. 11 S, R. 32 E., NMPM, Lea County, New Mexico, in such a manner as to produce oil from the Devonian formation and gas from the Wolfcamp formation.

BEFORE: Hon. R. R. Spurrier, Secretary and Member.

(See Transcript of case 386 for register of attendance.)

MR. SPURRIER: Mr. Christie, Case No. 387.

R. S. CHRISTIE, having been first duly sworn, made the following statement:

MR. CHRISTIE: My name is R. S. Christie. I work for the Amerada Petroleum Corporation as division engineer for Texas-New Mexico.

MR. SPURRIER: You have been qualified several times before the Commission.

MR. CHRISTIE: Yes, sir.

MR. SPURRIER: Go ahead with your testimony.

MR. CHRISTIE: This is an application of the Amerada Petroleum Corporation for permission to dually complete its State "MA" Well No. 1, located in the SWSW of Sec. 24, T. 11 S, R. 33 E, NMPM in the Moore-Devonian Pool, Lea County, New Mexico.

I would like to present as Exhibit No. 1 an area map

showing the location of the subject well and surrounding drilling wells in the area. At the present time there is only one completed well in this Moore-Devonian Pool, which is the Texas Company's Moore No. 1. And which is completed in the Devonian formation as an oil well.

As Exhibit No. 2 I will present some pertinent data pertaining to this State "MA" No. 1. The pertinent data sheet shows the location of the well, the spudding date, completion date, and the casing program, formation tops from the Wolfcamp to the Devonian, the perforated section in the Wolfcamp formation and the Devonian formation, and the potentials of the two producing formations. The potential of the Wolfcamp flowed 40.55 bbls of condensate in 14 hours through casing, 10 hours on 12/64" choke with the rate of 1,480 MCF per day with gas condensate ratio of 25,965 cu. ft.; and 4 hours on 16/64" chock at the rate of 2,460 MCF per day, 460 MCF rather, per day, with gas condensate ratio of 24,375 cu ft. Corrected gravity was 60.6° API. The well stabilized on the 12/64" choke at a casing pressure of 1,700 lbs. And the last hour on the quarter-inch choke the casing pressure was 1,550 lbs. The shut-in pressure was 2,100 lbs.

The potential on the Devonian was 677 bbls of oil in 20 hours on a 3/4" choke, and tubing pressure of 60 lbs., gas volume of 17,790 cu. ft. per day. Gas-oil ratio was 22 cu. ft. per barrel. There is an error in that (referring to the exhibit). This would give a 24-hour potential of 812 bbls

per day. The gravity of the Devonian oil was  $46.6^{\circ}$  API corrected.

As Exhibit No. 3 I would like to present a Schlumberger of the subject well, which shows the tops of the Wolfcamp formation and the other pertinent tops from the Wolfcamp on down to the Devonian; the top of the Pennsylvanian, and so forth.

As Exhibit No. 4 I present a diagrammatic sketch of the dual completion on the subject well. This diagram shows the equipment that has been placed in the well. And you will note we have a packer set at 8,563 ft., which separates the Wolfcamp from the Devonian. Just above the packer we have an Otis removable separation tool, which separates the two zones. By running straight through the separation tool you blank off the upper zone or gas from the casing, and produce from the Devonian. To produce the upper zone through the tubing it is necessary to blank off the lower zone by a blank assembly. The casing is perforated opposite the Wolfcamp from 8150 to 8195. The casing perforations in the Devonian are from 10,450 to 10,500. Tubing is set at 10,668, and perforations from 10,664 to 10,668. Five and  $1/8$  casing set at 10,700. And the drilled out depth is 10,676. You will note the top of the cement between the  $5\frac{1}{2}$  and 8-5/8 is at 7,393.

At the present time, the well is completed with production coming through the casing, gas production coming from

the casing, and oil production through the tubing.

For the record, I would like to state that we had permission to dually complete the well by authority of a telegram dated 23 June 1952 and signed by R. R. Spurrier.

Therefore, Mr. Commissioner, we ask permission to dually complete State "MA" No. 1 as a gas- oil dual completion, and permission to produce it under those conditions. As stated in our letter of June 24, the gas from this well, if approved, will be used for fuel purposes to rigs drilling in the general area. Our June report indicates we had 14 rigs tied onto our gas system that comes from the Bagley Siluro-Devonian field and the Bagley-Pennsylvanian field. At this time we are in need of extra gas because of our gas-lift system in the Bagley fields. And we would appreciate permission to produce gas from this well as soon as possible.

MR. SPURRIER: You are willing that the order of the Commission be similar to orders issued in the past on dual completions?

MR. CHRISTIE: Yes, sir. The gas, of course, is now shut in pending the decision of the Commission on the dual completion.

MR. MACEY: Do you have any idea about how much gas you intend to use?

MR. CHRISTIE: We estimate that about 1,000,000 cu. ft. a day for these drilling wells. Of course, that will be a

legal use. We would be entitled to produce that if the dual completion is approved.

MR. SPURRIER: You offer these exhibits as evidence in the record?

MR. CHRISTIE: Yes, sir, I do.

MR. SPURRIER: Without objection, they will be received. Mr. Christie, I will recommend to the Commission that your application be approved. And you will get an order signed as soon as the Commission will sign it, if the Commission will sign it.

MR. CHRISTIE: Thank you. Any questions?

MR. MACEY: I have no more.

MR. CHRISTIE: That is all I have. I might state for the record we have found no oil from the Wolfcamp in this area. All tests in the Wolfcamp have been gas.

MR. SPURRIER: That's all.

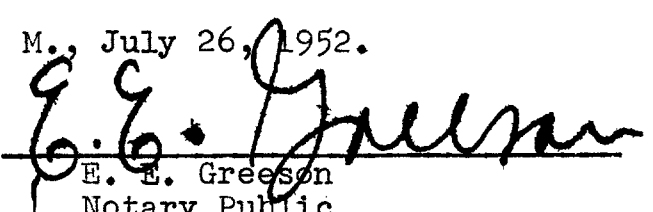
STATE OF NEW MEXICO

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COUNTY OF BERNALILLO

I HEREBY CERTIFY That the foregoing transcript is a true record of the matters therein contained.

DONE at Albuquerque, N. M., July 26, 1952.

  
E. E. Greeson  
Notary Public

Commission Expires: 8-4-52