

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APRIL 5, 1961

EXAMINER HEARING

PHONE CH 3-6691

DEARNLEY-MEIER REPORTING SERVICE, Inc.

ALBUQUERQUE, NEW MEXICO

IN THE MATTER OF

CASE 2233: Application of Continental Oil Company for a gas-oil dual completion utilizing the strings of casing. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Stevens B-15 Well No. 3, located in Unit N, Section 15, Township 23 South, Range 36 East, Lea County, New Mexico, in such a manner as to permit the production of gas from the Jalmat Gas Pool and the production of oil from the Langlie-Mattix Pool through parallel strings of 2 ¹/₈-inch casing and 4 ¹/₈-inch casing cemented in a common well-bore. Applicant also proposes to install 2-inch tubing in the 4 ¹/₈-inch casing.

BEFORE:

Daniel S. Nutter

T R A N S C R I P T O F P R O C E E D I N G S

MR. NUTTER: We will take next Case 2233.

MR. MORRIS: Case 2233. Application of Continental Oil Company for a gas-oil dual completion utilizing two strings of casing.

MR. KELLAHIN: Jason Kellahin, Kellahin & Fox, representing the applicant. We will have one witness.



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(Witness sworn)

LEO S. CICHOWICS,

called as a witness, having been first duly sworn, testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Will you state your name, please?

A Mr. Leo S. Cichowics. C-i-c-h-o-w-i-c-s.

Q By whom are you employed and in what position, Mr. Cichowics?

A Continental Oil Company. Senior production engineer.

Q Have you testified before the Oil Conservation Commission as a petroleum engineer and made your qualifications a matter of record?

A Yes, sir.

MR. KELLAHIN: Are the witness' qualifications acceptable?

MR. NUTTER: Yes, sir.

Q (By Mr. Kellahin) Are you familiar with the application of Continental Oil Company in Case 2233?

A Yes, I am.

Q Would you state briefly what's proposed in this application?

A This is the application of Continental Oil Company for the dual completion of its Stevens B-15 No. 3 in the Langlie-



Mattix oil and Jalmat gas pools located 660 feet from the South line and 1980 feet from the West line of Section 15, Township 23 South, Range 36 East, NMPM, Lea County, New Mexico.

Q Is the location proposed an unorthodox location for both pools?

A Yes, it is.

Q Have you prepared a location and ownership plat?

A Yes, I have.

MR. KELLAHIN: Could we have that marked as Exhibit No. 1?

(Whereupon, Continental's Exhibit No. 1 was marked for identification.)

A Exhibit No. 1 is a location and ownership plat showing the Stevens B-15 lease and surrounding areas as shown outlined in red. The lease consists of the southwest quarter of Section 15, Township 23 South, Range 36 East, Lea County, New Mexico. The No. 3 Well, which is proposed to be completed as a dual producer in the Langlie-Mattix oil and Jalmat gas pools, is shown circled in red.

Q Now, the plat shows another gas well on the proposed unit, does it not?

A Yes, sir, the Stevens B-15 No. 2 is a Jalmat gas well.

Q What is the present status of that well?

A The Stevens B-15 No. 2, as of January, 1961, or I should say during January, 1961, this gas well had produced 27,863 MCF per

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day, and at January 31, 1961, the well was overproduced 25,778 MCF gas per day.

Q What would be done with that well in the event this application is approved for production from the Jalmat?

A Depending on the completion of the No. 3 Well, the No. 2 Well will be deepened to encounter the Langlie-Mattix pay to meet the offset created by the Phillips-Matkins No. 1.

Q Have you made a diagram of the proposed dual completion?

MR. KELLAHIN: Mark Exhibit No. 2.

(Whereupon, Continental's Exhibit No. 2 was marked for identification.)

A Yes.

Q Referring to what has been marked as Exhibit No. 2, will you discuss the information on that Exhibit?

A Exhibit No. 2 is a schematic diagram of the proposed method of dual completion. As is shown on this diagram, the proposed dual completion will be accomplished by producing the Langlie-Mattix zone through 2-inch tubing set inside the $4\frac{1}{2}$ -inch casing, and producing the Jalmat gas zone through $2\frac{1}{2}$ -inch tubing, which will be run and cemented parallel to the $4\frac{1}{2}$ -inch casing. All of the proposed casing seats, top of cement behind each string, proposed perforations for both the Langlie-Mattix zone and the Jalmat zone, along with the proposed total depth are shown so that the dual completion method is clearly evident on the drawing. The Exhibit shows the proposed method of dual completion to be



mechanically feasible, and will not permit commingling of the produced fluids in the well-bore.

Q Would you discuss the procedure that will be followed in making this completion?

A The procedure we propose to follow is as follows: (1) Drill to total depth, run and cement parallel the $4\frac{1}{2}$ -inch casing and 2 $7/8$ -inch production string. (2) Perforate the $4\frac{1}{2}$ -inch casing for Langlie-Mattix oil production. (3) Perforate the 2 $7/8$ -inch casing for Jalmat gas production, employing directional perforating equipment to prevent perforation of the $4\frac{1}{2}$ -inch casing. Sand frac both the Langlie-Mattix zone and the Jalmat zone recovery load from both zones, and place both zones on production.

Q In connection with the completion of the well, is Continental willing to employ centralizers in installing casings?

A Yes, we will follow the prudent practice which entails the use of centralizers and turbulizers over the area plus, I believe, three joints over the top of the pay in each pool.

Q Then, you will use turbulizers also in connection with your cementing program?

A Yes, sir.

Q In your opinion, will the program as outlined by Continental Oil Company adequately protect both zones and prevent communication between producing zones?

A Yes, sir.

Q Will any other producing zones in the area be protected?

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A All producing zones will be protected.

Q Is your proposed program sufficient to protect any water zones that might be encountered?

A Yes, sir. The schematic shows that the top of the cement, which we propose in the well, is at 1200 feet.

Q Would you anticipate any fluid problem in connection with the production of the Jalmat in this well?

A No.

Q In your opinion, is the completion a feasible one and economical?

A Yes. The well will be equipped and completed in such a manner that there will be no commingling of production from the two sources of supply in the well-bore. The dual completion, as mentioned, is mechanically and economically feasible. The approval of the application will be in the interest of preventing waste and protecting correlative rights. In considering these facts, we solicit the approval of this application.

Q Were Exhibits 1 and 2 examined by you as to their correctness?

A Yes.

Q They were not prepared by you, is that correct?

A No, sir.

Q In your opinion, are they correct and accurate?

A Yes, sir, they are.

MR. KELLAHIN: At this time we would like to offer in



evidence Exhibits 1 and 2.

MR. NUTTER: Applicant's Exhibits 1 and 2 will be entered in evidence.

(Whereupon, Continental's Exhibits Nos. 1 and 2 were received in evidence.)

MR. KELLAHIN: That's all the questions I have.

MR. NUTTER: Does anyone have any questions?

CROSS-EXAMINATION

BY MR. PAYNE:

Q This well hasn't been drilled yet?

A No, sir.

Q Will you be able to furnish us a well on the log when it is --

A Yes.

Q -- in order to insure that the bottom perforations are actually in the Langlie-Mattix?

A Yes, sir, we will.

Q Your proposed area of limitations is pretty close to off limits of that pool?

A Yes. I will make a note of that so we will provide the gamma neutron log.

MR. PAYNE: Thank you.

MR. NUTTER: Any other questions?

BY MR. NUTTER:

Q You stated that the No. 2 Well, which is presently the



well for the southwest quarter of Section 15, the gas unit is over-produced, is that correct?

A That's right.

Q You understand, of course, that if the No. 2 is deepened to another pool, then the unit well becomes No. 3, then the status of the unit stays the same --

A Yes.

Q -- and the No. 3, when completed, starts off with an over-produced status?

A Yes, sir.

MR. NUTTER: Any further questions? He may be excused.

(Witness excused)

MR. NUTTER: Do you have anything further, Mr. Kellahin?

MR. KELLAHIN: That's all, Mr. Nutter. Thank you.

MR. NUTTER: Does anyone have anything they wish to offer in Case 2233? We will take the case under advisement.

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