BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
January 4, 1962

EXAMINER HEARING

IN THE MATTER OF:

Application of Shell Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Livingston Well No. 12, located 4620 feet from the South line and 660 feet from the East line of Section 4, Township 21 South, Range 37 East, Lea County, New Mexico, as a dual completion (tubingless) in the Drinkard and Blinebry Oil Pools, with the production of oil from both zones to be through parallel strings of 2 7/8-inch casing cemented in a common well bore.

CASE NO. 2467

BEFORE:

Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

MR. NUTTER: Case 2467.

MR. WHITFIELD: It has already been called.

MR. SETH: May the record show we have the same appearances and the same witness and he has been sworn in 2468.

MR. NUTTER: Yes, sir.

JOSEPH G. YOPE,

recalled as a witness, having been first duly sworn, testified as follows;

DIRECT EXAMINATION

BY MR. SETH:

Q Tell the Examiner briefly what the purpose of this application is.

A Shell Oil Company proposes a dual completion of its Livingston Well No. 12 in the Drinkard Oil and Blinebry Oil Pools in Section 4, Township 21 South, Range 37 East of Lea County, New Mexico, utilizing two parallel strings of 2 7/8-inch casing cemented in a common well bore.

Q Do you have an exhibit showing the location of the proposed well completion?

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

A Yes, Exhibit 1. It is a plat of the surrounding area. The Livingston lease is denoted in red. The proposed dual completion well No. 12 is indicated on the map. This plat also shows the surrounding or offset wells and operators.

Q On the proposed completion, do you have a sketch showing the mechanical completion?

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

A Yes, Exhibit No. 2. It is a diagrammatic sketch of our proposed dual completion in Livingston No. 12.

Q Does this proposed completion follow closely the completion that you have just discussed in 2468 on the Livingston No. 11, the only difference being that this is a dual and the other is a triple completion?

A Yes, sir, that is correct. The information pertinent to the zones of interest and the cementing procedures, so forth, are all the same except one less string is involved in this proposal.

Q Would you nevertheless mention briefly your proposal on the individual strings in this well?

A As shown on Exhibit 2, 9 5/8-inch casing will be cemented at 308 feet and cemented to the surface. We propose to run two strings of 2 7/8-inch O.D. casing to approximately 6750 feet and cement simultaneously through both strings and bring our cement top back up into the salt approximately 2300 feet. The Drinkard string here will be 2 7/8-inch O.D. N-80 EUE 6 1/2 pound tubing, the Blinebry string will be 2 7/8-inch O.D. J 55, 6 1/2 pound tubing. The Drinkard zone will be selectively perforated from approximately 6600 feet to 6720 feet, while the Blinebry zone will be selectively perforated from 5770 feet to 5890 feet. Both strings will be equipped with 55 rubber turbulizers from T. D. back to approximately 5000 feet. The purpose, as in the previous case of these turbulizers, is to insure turbulent action of the cement in conjunction with the use of two cementing trucks, one on each string. We anticipate

a turbulent flow action in the annular space and hope for a good cement job from that. Here again we will also install radioactive collars in the string. The purpose of these collars are to enable us to run one collar locator log in one string and be able to pick up the radioactive collar in the other string, thereby only running one locator log. We intend to use oriented perforating guns and insure proper perforations by maintaining the pressure on one string while perforating the other. Also, each zone will be fracture treated with approximately 15,000 gallons of loose crude containing sand. The zones will be treated individually observing the pressure on the other string.

Q Now, you have testified to the characteristics of the zones in the other case. At this location you would expect them to be identical, would you not?

A Yes, we do.

Q And similarly on corrosion?

A Yes, sir.

Q What about the production from the two zones?

A Again, the production will be handled in the central battery which contains adequate metering and testing facilities for each zone.

Q Do you believe that the approval of this application will be in the interest of conservation?

A Yes, sir, I do.

Q Do you have any further comments or exhibits that

you would like to present?

A No, sir.

MR. SETH: We would like to offer our two exhibits, Mr. Examiner.

MR. NUTTER: Shell's Exhibits 1 and 2 will be admitted in evidence.

(Whereupon, Applicant's Exhibits 1 and 2 admitted in evidence.)

MR. SETH: That's all the direct we have.

MR. NUTTER: Does anyone have any questions of Mr. Yope?

CROSS EXAMINATION

BY MR. NUTTER:

Q You will cement these two strings simultaneously as you would in the triple?

A Yes, sir, one truck on each string.

Q And perforate and frac each string simultaneously observing the pressures on the others?

A Yes, sir.

MR. NUTTER: Any further questions? The witness may be excused.

(Witness excused.)

MR. SETH: That's all we have.

MR. NUTTER: Does anyone have anything they wish to offer in Case 2467? We'll take the case under advisement and

take a fifteen minute recess.

* * * *

STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

I, ADA DEARNLEY, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission, at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill, and ability.

IN WITNESS WHEREOF, I have affixed my hand and notarial seal this 4th day of January, 1962.

Ada Dearnley
COURT REPORTER-NOTARY PUBLIC

My commission expires:

June 19, 1963

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2461, heard by me on 1-4, 1962.

....., Examiner
New Mexico Oil Conservation Commission