BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
August 30, 1961

EXAMINER HEARING

IN THE MATTER OF:

Case No. 2364

TRANSCRIPT OF HEARING

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IN THE MATTER OF:

Application of Texaco, Inc., for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its A. H. Blinebry NCT-1 Well No. 14, located in Unit M, Section 28, Township 22 South, Range 38 East, Lea County, New Mexico, as a triple completion (conventional), in the South Paddock, Tubb & Drinkard Pools, the production of oil from each pool to be through parallel strings of 2 3/8 inch tubing.

Case 2364

BEFORE:
Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: Case 2364.

MR. MORRIS: Application of Texaco, Inc., for a triple completion.

MR. WHITE: Charles White of Gilbert, White & Gilbert, Santa Fe, New Mexico, appearing for the applicant; and we have one witness: Mr. Black.

CHARLES ROBERT BLACK,

called as a witness herein, having been first duly sworn on oath, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. WHITE:

Q Mr. Black, state your full name, and by whom you are employed, and in what capacity.

A I am Charles Robert Black, employed by Texaco, Inc., as a petroleum engineer.

Q Have you previously testified as a petroleum engineer before the New Mexico Oil Conservation Commission?

A No, I have not.

Q Will you briefly state your educational and professional background.

A I was graduated from Texas State College in June, 1958, with a B.S. in Petroleum Engineering. Since that time I have been employed by Texaco, two years spent as a field engineer, one year in reservoir work, and since June of this year I have been employed in the capacity of Assistant Division Proration Engineer.

Q Are you familiar with the subject application?

A Yes, I am.

MR. WHITE: Are the applicant's qualifications acceptable?

MR. UTZ: Yes, sir.

Q (By Mr. White) State briefly what Texaco proposes by the application.

A This is the application of Texaco, Inc., to triple complete its A. H. Blinebry NCT-1, Well No. 14 as an oil-oil-oil triple in the Drinkard, Tubb Oil, and Paddock South Pools. Each

zone will be produced through independent parallel strings of tubing.

Q What is the present status of the well?

A Presently, Texaco is attempting completions in the Tubb Oil Formation.

Q Will you refer to Exhibit No. 1, and explain the ownership plat?

A Exhibit No. 1 is an ownership plat showing the area immediately surrounding the A. H. Blinebry NCT-1 No. 14. The A. H. Blinebry, or rather I should say, a portion of the A. H. Blinebry is outlined in yellow. The Blinebry Lease extends to the west, as indicated by the yellow arrow, and it is not shown on this particular plat. The A. H. Blinebry Well No. 14 is circled in red. The location of this well is 330 from the south and west lines of Section 28, Township 22, Range 38, Lea County, New Mexico. Also shown on this plat are the offset operators and their well. The field designation of each offset well is shown below the well, and the legend in the bottom right hand corner indicates these field designations. Also shown on this Exhibit are the mailing addresses of the offset operators.

Q Mr. Black, what is the closest Paddock production?

A The closest Paddock production to the proposed triple is approximately three quarters of a mile to the southwest in the Gulf T. R. Andres Well No. 3, which is a dual Tubb Oil and Paddock South.

Q Are these all the zones in which you intend to complete production in the area?

A Yes. With reference to the Paddock South, the Gulf Oil Andres No. 3 is the closest well producing from the Paddock, the direct offsets to the west and to the north being the Texaco A. H. Blinebry NCT-1 No. 11, and the Gulf Watkins Well No. 2 are producing from the Drinkard Formation, and the Tubb Formation is Tubb Oil, is productive directly offsetting to the north in the Texaco Well No. 11.

Q Will this be the first triple completion in the area as to these particular zones?

A To my knowledge, this is the first triple completion in these particular zones in this area.

Q Now, refer to what has been marked Exhibit 2, and explain that diagramatic sketch. When was that sketch prepared that is Exhibit 2?

A Exhibit No. 2 was prepared prior to the reaching of total depth for this well.

Q Do you intend, at this time, to offer amendments on the Exhibit?

A We do. I would like to amend Exhibit 2 to state that the 7-inch casing was set at 6,922, rather than the 6,900 feet, as indicated.

Q How about the perforation points?

A In the South Paddock, the perforation, or proposed

perforation interval should be amended to read 5,236 to 5,250, rather than 5,236 to 5,256.

Q Instead of 5,250, 5,256?

A That is correct.

Q Now, explain the Exhibit, please.

A Exhibit No. 2 is a diagramatic sketch of the proposed triple completion installation. This indicates that a 12 1/4, or a 12 1/4-inch hole was drilled to 1,348, and 8 5/8-inch casing was set at 1,348 feet, and cement was circulated to the surface with 700 sacks, and a 8 3/4-inch hole was then drilled to 8,922 feet, and at that point it was reduced to a 6 3/4-inch hole. The 7-inch casing was set at 6,922 feet and cemented with 400 sacks. The total depth of the well is 7,200 feet.

Q What do you anticipate the crude characteristics to be as to each zone?

A The crude characteristics in the Drinkard Formation -- Let me make this statement: We have attempted completions, or have completed in the Drinkard Formation, and this open hole section from 6,922 to 7,200 was acidized with 23,000 gallons of acid, and on the latest tests, it was approximately 1 1/2 barrels per hour. The Drinkard Oil is a 40-degree gravity intermediate crude with an estimated GOR of 1,200 feet per barrel. The reservoir pressure is estimated to be 2,400 PSI. This is based on Drinkard completion in A. H. Blinebry Well No. 11, and this well will pump initially.

The Tubb Oil, we are presently attempting completions in the Tubb Oil. The Tubb Oil is anticipated to be a 41-degree gravity intermediate crude with an estimated GOR of 2,000 cubic feet per barrel. The reservoir pressure is estimated to be 2,300 PSI based on information from the Texaco Blinebry No. 11, and it is anticipated that this zone will flow upon completion, and show flow for two to three years.

The South Paddock Formation, this zone is the only zone that is not producing in a direct offset well and, as previously stated, the closest South Paddock Production is approximately three quarters of a mile to the southwest. A drill stem test in the Paddock Formation did recover free oil with no water, and therefore Texaco believes that the Paddock Formation in this location will be productive. It is anticipated that the Paddock Oil will be a 36-degree cellar crude with a producing GOR of approximately 1,500 cubic feet per barrel. The reservoir pressure is estimated to be 1,440 PSI, and that is from drill stem data, and it is anticipated that this zone will pump initially.

Q Mr. Black, will this installation be such that you can pump all the zones if it becomes necessary?

A Yes. We can pump all three zones, if necessary.

Q Do you anticipate any corrosive problems?

A There are no corrosion or paraffin problems anticipated in the Drinkard or Tubb zones. However, there is mild corrosion and mild paraffin problems anticipated from the Paddock zone; and

therefore, Texaco plans to internally plasticote the Paddock zone tubing, and upon completion, we will immediately commence a corrosion inhibitor program to prevent corrosion from deteriorating the equipment in this installation.

Q Now, will you give the perforation points, please.

A The Drinkard Formation is completed in the open hole section from 6,922 feet to 7,400 feet. The Tubb Oil is proposed to be perforated from 6,260 to 6,340 feet. The South Paddock is proposed to be perforated from 5,326 feet to 5,256 feet.

Q Will you explain the proposed downhole equipment.

A We propose to run three stringers of 2 3/8-inch OD Buttress tubing to produce each zone independently. The short string will be set approximately 5,225 feet in a parallel latching stub. The middle string will be set at 8,200 feet in a Baker Model K snapset packer, and the long string will be set at approximately 6,900 feet. Immediately above the Drinkard Zone, a Baker Model F packer will be set at approximately 6,450 feet, and a Baker Model K snapset packer will be set at approximately 6,200 feet. The parallel latching stub will be run to the middle string and set at approximately 5,225 feet.

Q Do you have a log for this?

A Yes, we do. I would like to enter that as Exhibit 3.

Q Do you care to explain that, or is that self-explanatory?

A I can explain it.

MR. WHITE: Would the Examiner like the log explained?

THE WITNESS: The pertinent data is marked in red.

MR. UTZ: It is marked in here?

THE WITNESS: The detailed section at the bottom portion of the log.

MR. UTZ: I don't believe any explanation is necessary. It is probably marked.

MR. WHITE: That concludes our testimony, and we offer Exhibits 1 through 3 at this time.

MR. UTZ: Without objection, Exhibits 1 through 3 will be entered into the record.

(Whereupon, Applicant's Exhibits Nos. 1, 2, 3, received in evidence.)

Q (By Mr. Utz) Mr. Black, what is the top of your cement on your 7-inch?

A We did not run a temperature survey on the 7-inch. However, the calculated top of the cement was such that it would be sufficient to cover all of the proposed completion intervals. I do not actually have the calculated time.

Q Up through the South Paddock?

A Up through and at least a minimum of 200 feet above the top of the South Paddock Formation.

Q Is the Baker Model F packer a permanent packer?

A Yes. The packer Model F is a permanent-type packer.

Q How about the Model K?

A The Model K is a retrievable-type packer. It is run on a long string, and this packer is mechanically set with a middle packer as handled in this packer.

MR. UTZ: Are there any other questions?

MR. MORRIS: Yes, sir.

MR. UTZ: Mr. Morris.

Q (By Mr. Morris) Mr. Black, you said you were attempting a completion in the Tubb Oil at this time. Are you expecting any difficulty in making that completion?

A We are not expecting any difficulty. It has been a characteristic of the Tubb Formation in this area that in some instances where you expect oil you get gas. Therefore, that is the reason I said "attempting". We haven't actually had any tests on this yet, to my knowledge.

Q If you ran into trouble on the Tubb, and say, you did get a gas-producing interval there, would you change your plans any on this well? Would you try to complete it as, say, the Blinebry Oil, say, rather than the Tubb Oil?

A Mr. Morris, I cannot definitely answer that. I feel sure that probably we would attempt to complete in the Blinebry Oil rather than the Tubb Gas. We don't anticipate that situation. However, it is one that could arise.

Q Did you give the expected GOR in the Tubb Zone?

A In the Tubb, yes. The estimated or expected GOR is

STATE OF NEW MEXICO )
) ss
COUNTY OF BERNALILLO )

I, Michael P. Hall, Court Reporter, in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in machine shorthand and reduced to typewritten transcript under my personal supervision, and that the same is a true and correct record to the best of my knowledge, skill and ability.

Michael P. Hall
NOTARY PUBLIC

My commission expires:

June 20, 1965

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2364, heard by me on 8-30, 1961.

Examiner
New Mexico Oil Conservation Commission