

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

EXAMINER HEARING

IN THE MATTER OF:

Case No. 2365

TRANSCRIPT OF HEARING

DEARNLEY-MEIER REPORTING SERVICE, Inc.

ALBUQUERQUE, NEW MEXICO

PHONE CH 3-6691



BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
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EXAMINER HEARING

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 G. L. Erwin (b))
NCT-2 Well No. 1, located in Unit P, Section)
35, Township 24 South, Range 37 East, Lea)
County, New Mexico, as a triple completion)
(conventional) in undesignated Drinkard,)
McKee and Ellenburger Pools, the production)
of oil from each pool to be through parallel)
strings of 2 3/8 inch tubing.)

Case
2365

BEFORE:

Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: Case 2365. Application of Texaco, Inc., for
a triple completion.

MR. WHITE: May the record show the same appearances
and the same Witness.

MR. UTZ: The record will so show.

CHARLES ROBERT BLACK,

recalled as a Witness herein, having been previously duly sworn
on oath, was examined and testified further as follows:

DIRECT EXAMINATION

BY MR. WHITE:

Q State what the Applicant seeks in the application.

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A This is the application of Texaco, Inc., to triple complete its G. L. Erwin (b) NCT-2 Well No. 1 as an oil-oil-oil triple in the Ellenburger, McKee and Drinkard Formations. Each of those zones are undesignated. Production from each zone will be through independent strings of two.

Q Since the filing of the subject application, has Texaco decided to complete the well in a different zone than the Fusselman?

A Yes, we have. We have decided to attempt completion in the Drinkard Formations rather than the Fusselman.

Q You request the application to be so-amended?

A Yes, I do, at this time.

MR. UTZ: The application will be so-amended, to change the upper completion from Fusselman to Drinkard.

Q (By Mr. White) Now, will you refer to Exhibit 1, please. What is the status of this well at the present time?

A Presently each zone has been potential tested, and Texaco is in the process of preparing the packer leakage test for submission to the Conservation Commission Service.

Q Now, refer to Exhibit 1, and explain your ownership plat.

A Exhibit No. 1 is an ownership plat showing the location of the subject well. The well is located 660 feet from the south and east lines of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico. The Texaco G. L. Erwin (b) NCT-2 Lease is bordered in yellow, and the subject well is circled in red.



Also shown on the plat are all offset operators and their wells, and at the bottom of the exhibit is a list of the direct offset operators and the mailing addresses of each.

Q Is there any other well in this area completed or being completed?

A In these zones, the J. C. Williamson West States Well No. 5 is currently completing in the Drinkard Zone. However, there are no other wells in the immediate vicinity that are completed in the Ellenburger or the McKee Zone.

Q Now, refer to and explain Exhibit No. 2.

A Exhibit No. 2 is a diagrammatic sketch of the proposed triple completion installation.

Q When was this prepared?

A This sketch was prepared after the well reached total depth and before any formations were actually perforated.

Q Are there any changes that you wish to make to this Exhibit?

A Yes. The actual perforated intervals are available at this time. In the Ellenburger Zone, the actual perforations are from 8,458 to 8,482. In the McKee Zone, the actual perforations are from 7,928 to 7,941; from 7,973 to 8,014. And in the Drinkard Formation, the actual perforations are from 5,958 to 5,964; 5,990 to 4,009; 6,026 to 6,040.

Q What are the estimated crude characteristics as to each zone? First, go through the mechanics.



A A 17 1/2-inch hole was drilled to 990 feet, and a 13 3/8 casing was set at that depth, and cement was circulated to the surface. A 12 1/4-inch hole was drilled to 5,780 feet, and 9 5/8 casing was set at that depth and cemented with 1,500 sacks of Encore, 4% jel was 200 sacks of neat cement. The top of the cement was found to be at 1,400 feet. A 8 3/4-inch hole was drilled to a total depth of 8,565 feet, and a 7-inch liner was set from 3,667 feet to 8,564 feet, and cemented with 900 sacks of Encore Cement, and 200 sacks of Encore Cement were squeezed around the top of the liner. A cement bond log was run throughout the liner, and it was found that there was a good bond throughout the entire length of the 7-inch liner.

Concerning the crude characteristics, the Ellenburger Formation was perforated from 8,458 to 8,452, and on potential test ending August 27, 1961, this formation flowed 157 barrels of oil through an eighteen sixty-fourths inch choke in 24 hours, with a tubing pressure of 125 PSI. The Ellenburger Oil is a 46.5-degree gravity crude. It is an intermediate sweet crude, and the reservoir pressure is estimated to be 2,890 PSI. This is based on drill stem test data. The GOR was 976 cubic feet per barrel, and it is estimated that this zone will flow five to six years.

The McKee formation was perforated from 7,928 to 7,941, and 7,983 to 8,014; and on potential tests ending August 28, 1961, this zone flowed 148 barrels of oil to a twelve sixty-fourths inch choke in sixteen hours, with a tubing pressure of 1,300 PSI. The

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McKee Oil is a 46.5-degree API gravity crude. It is an intermediate sweet crude with a producing GOR of 1,388 cubic feet per barrel. The reservoir pressure is estimated to 3,265 PSI. Again, this is based on drill stem test data, and it is anticipated that this zone will flow for five to six years.

The Drinkard Formation was perforated from 5,958 feet to 5,964; 5,990 to 6,008; 6,026 to 6,040; and on potential test ending August 29, 1961, it flowed 139 barrels of oil in fourteen hours through a fourteen sixty-fourths inch choke with a tubing pressure of 400 pounds. The Drinkard Oil is a 37.5-degree gravity intermediate sweet crude, with a producing GOR of 741 cubic feet per barrel. The reservoir pressure is estimated to 2,860 PSI based on drill stem data, and it is anticipated that this zone will flow for two to three years.

Q Will your installation be such that any one of those three zones can be pumped if and when necessary?

A Yes, it is; and when it is necessary, any or all of these zones may be pumped.

Q Do you anticipate any corrosion or paraffin problems?

A We do not anticipate corrosion or paraffin problems for any of these three zones that this well is to be completed in.

Q Now, explain the downhole equipment, please.

A Three strings of 2 3/8-inch OD buttress tubing. The short string will be run to approximately 5,950 feet. The middle string will be at approximately 7,900 feet. And the long string



will be to approximately 8,450 feet. A barrel latching sub has been set at 599 feet. A Baker Model K snapset packer has been set at 7,841 feet, and a Baker Model D packer -- F packer, excuse me. There is one other amendment that should be made on this. This was a Baker Model D packer, rather than a Baker Model F packer -- and it was set at 8,100 feet.

Q Is that a permanent packer?

A That is a permanent-type packer.

Q Now, refer to Exhibit 3, and explain that, please.

A Exhibit No. 3 is an induction lateral log on the subject well.

Q Are your notes also on that?

A The pertinent data is marked in red on this Exhibit.

MR. UTZ: That will be satisfactory.

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

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.)

Are there any other questions of this Witness. The Witness may be excused. Are there any statements in this case? The case will be taken under advisement.

(Whereupon, the Hearing of Case No. 2365, was concluded.)

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