

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

March 29, 1962

EXAMINER HEARING

IN THE MATTER OF:

Application of Texaco, Inc. for an exception to Rule 107 (e), Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 107 (e) authorizing the completion of its K. F. Quail-Federal Well No. 1, located 2086 feet from the South line and 556 feet from the West line of Section 1, Township 20 South, Range 34 East, Lea County, New Mexico, as a 2 7/8-inch tubingless completion below the depth of 5,000 feet.

CASE NO.
2510

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: The Hearing will come to order. Case 2510.

MR. WALKER: Application of Texaco, Inc. for an exception to Rule 107 (e), Lea County, New Mexico.

MR. WHITE: Charles White of Gilbert, White & Gilbert, Santa Fe, New Mexico, appearing on behalf of the Applicant. We have one witness to be sworn.

MR. UTZ: Are there any other appearances in this case? You may proceed, Mr. White.

(Witness sworn.)

C. R. BLACK,

DEARNLEY-MEIER REPORTING SERVICE, Inc.

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

DIRECT EXAMINATION

BY MR. WHITE:

Q Mr. Black, will you state your full name for the record?

A C. R. Black, employed by Texaco, Incorporated.

Q In what capacity?

A Petroleum engineer.

Q Have you previously testified before the New Mexico Oil Conservation Commission?

A Yes, sir, I have.

Q And have your qualifications been accepted?

A They have.

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

Q Will you briefly state what Texaco is seeking by the subject application?

A This is the application of Texaco, Inc., for a tubing completion of K. F. Quail-Federal Well No. 1 in exception to this rule. The well is an exception to this well in that completion interval below 5,000 feet.

Q Will you refer to Exhibit No. 1 and explain that?

A Yes, sir, No. 1 is a plat showing the immediate area surrounding the Texaco K. F. Quail-Federal lease and the K. F. Quail-Federal Well No. 1. The Texaco lease is bordered in yellow

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and the sub-well is circled in red. Also shown are the offset operators and their wells. At the base of the exhibit is a list of the offset operators and their mailing addresses. The location of the Quail-Federal Well No. 1 is 2086 feet from the South line and 556 feet from the West line of Section 1, Township 20 South, Range 34 East, Lea County, New Mexico.

Q What is the status of the well at the present time?

A This well was completed on March 3, 1962, and at the present time it is producing under a temporary allowable granted by the Commission by letter of March 12, 1962.

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

Q Has that been marked as Exhibit No. 2?

A Yes, sir, it has.

(Applicant's Exhibit No. 3
marked for identification)

Q Now, will you refer to Exhibit 3, your diagrammatic sketch, and give the details of the drilling and completion of the well?

A Exhibit 3 is a diagrammatic sketch of the installation of the 17 $\frac{1}{2}$ -inch hole which was drilled to 874 feet and at that point 13 $\frac{3}{8}$ casing was set and cement was circulated to the surface. A twelve quarter inch hole continued and drilled to 5490 feet and 9 $\frac{5}{8}$ -inch casing set with cement circulating to the surface. We continued to the total depth of 13,745 feet with 8 $\frac{3}{4}$ -inch hole. This hole originally was scheduled to be a dual com-



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pletion in the Lea Devonian and the Lea Bone Springs hole; however, after reaching 13,745 it was apparent that the Devonian was running considerably low and would not be productive; therefore, the decision was made to cease drilling. We never penetrated the Devonian. Various cement plugs, as shown on the exhibit, were spotted in on open hole from 13,745 and from 9750 feet. A string of 2 7/8-inch casing was set. It was decentralized on the bottom and cemented with 250 sacks incorporated and we calculated the top of the cement at 9200 feet.

Q What are your perforation points?

A The Bone Springs formation was perforated from 9601 to 9606 and 9630 to 9639.

Q What are your crude characteristics?

A The particular crude, in this instance, is intermediate sweet type crude with a gravity of 41 degrees API, gas-oil ratio 2440 to 1. The estimated or the actual bottomhole pressure as determined by the bottomhole was 3437 PSI.

Q Is the well flowing at the present time?

A Yes, sir, in the potential test on March 3, 1962, this well swabbed 49 barrels of oil in 24 hours with gas-oil ratio of 260 to 1. On this test we received a temporary allowable. At the present time, though, as the result of a test on March 22, 1962, this well flowed 52 barrels in 12½ hours with a flowing tubing pressure of 200 PSI and gas-oil ratio 2440 to 1.

Q Do you anticipate any corrosion or paraffin problems?



A No, sir, we don't in this particular well.

Q Is your installation such that it would be possible to pump the well if necessary?

A Yes, sir, if and when it becomes necessary to, we can artificially lift this well.

(Applicant's Exhibit No. 4
marked for identification)

Q Now, refer to Exhibit 4 and explain that, please.

A Exhibit 4 is a cost log of the well with the top of the Bone Springs pay and the various perforated intervals being marked in red.

Q In your opinion, is this completion in keeping with sound conservation practices?

A Yes, sir.

Q Do you care to offer any other testimony?

A I have nothing further.

MR. WHITE: That completes our testimony on direct.

CROSS EXAMINATION

BY MR. UTZ:

Q Do you have your cement on 1790?

A Yes, sir.

Q And bottomhole cement demand is 5/8 casing 5490?

A Yes, sir.

Q That leaves 3700 feet of open hole, is that correct?

A Yes, sir.

