

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

IN THE MATTER OF:

Case No. 1625

TRANSCRIPT OF HEARING

APRIL 8, 1959

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BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

IN THE MATTER OF:

Case No. 1625 Application of El Paso Natural Gas Company for an oil-gas dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Huerfano Unit Well No. 105 located in the SE/4 SE/4 of Section 29, Township 27 North, Range 10 West, San Juan County, New Mexico, in such a manner as to permit the production of oil from the Gallup formation adjacent to the Angels Peak-Gallup Oil Pool and the production of gas from the Dakota formation adjacent to the Angels Peak-Dakota Gas Pool through parallel strings of two inch tubing.

Room 109
Oil Conservation Commission
April 8, 1959

BEFORE:

E. J. FISCHER, Examiner.

TRANSCRIPT OF HEARING

MR. FISCHER: We will take up next Case 1625.

MR. PAYNE: Case 1625, "Application of El Paso Natural Gas Company for an oil-gas dual completion."

MR. SETH: The same appearances as in Case 1624.

MR. FISCHER: Please proceed.

MR. WHITWORTH: We have one witness, Mr. John Mason.

JOHN MASON

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

DIRECT EXAMINATION

BY MR. WHITWORTH:

Q You are the same Mr. Mason who testified in the preceding case, is that right?

A Yes, I am.

MR. WHITWORTH: Is it necessary that he be sworn in this case?

MR. PAYNE: I don't believe so.

MR. FISCHER: Proceed.

Q (By Mr. Whitworth) Are you familiar with El Paso Natural Gas Company's application in this case?

A Yes, I am. This is an application requesting an order authorizing El Paso Natural Gas Company to complete its Huerfano Unit Well No. 105 as an oil over gas dual in such a manner as to permit production of oil from the Gallup formation and the production of gas from the Dakota formation.

(Thereupon the document was marked as El Paso's Exhibit No. 1 for identification.)

Q (By Mr. Whitworth) Do you have a plat marked El Paso's No. 1 indicating the location of this well and the offset operators?

A Yes, I do. Exhibit No. 1 shows the Huerfano No. 105 well to be located eight hundred feet from the south line and six hundred eighty feet from the east line Section 29 Township 27 north Range 10 west. The well, the subject well is circled with red. The sketch also shows the offset operator to be Pan American Petroleum Corporation, which is operating in Section 20 to the

north; the remaining acreage is operated by El Paso Natural Gas Company.

Q Do you have a diagramtic sketch of the physical equipment on this well?

A Yes, I do.

MR. WHITWORTH: We'll mark that as El Paso's Exhibit No. 2.

(Thereupon the document was marked as El Paso's Exhibit No. 2 for Identification.)

Q (By Mr. Whitworth) Will you please explain this exhibit to the Commission?

A Exhibit No. 2 is a schematic diagram of the Huerfano Unit No. 105 and the completion equipment. It indicates that the well has a total depth of 6543 feet, that the surface casing is ten and three quarter inch J-55 grade set at three hundred sixty eight feet with two hundred sacks of cement, which was circulated to the surface. The oil string is seven and five eighths inch combination string of N-80 and J-55 casing set at 5792. There is a five and a half inch liner of J-55 grade set from 5736 to 6540. A Baker Model D Production Packer is set at 5706. Tubing to the Gallup formation is nominal two inch tubing EUE 4.7 pounds per foot slanted at 5648 with tubing perforations at 5615. The tubing projected to the Dakota formation is nominal two inch EUE 4.7 pounds per foot slanted at 6397 with tubing perforations at 6362.

The Gallup formation is perforated from 5640 to 5666 with four shots per foot and fractured with oil and sand. The Dakota formation is perforated at intervals within the range of 6276 to 6406 perforated with four shots per foot and fractured with oil and sand.

Q Is this well within the defined limits of the pool?

A No, it isn't.

Q Do you have potential information on the gas-oil ratio and the gas-oil ratio information with respect to the well in the Gallup and the Dakota?

A Yes, I do. The Gallup formation on March 28, 1959 produced 786.8 barrels of oil, 973 MCF of gas for a gas-oil ratio of 11,210 to 1. The Dakota formation, from a three-quarter inch choke test, produced 4325 MCF of gas and at a calculated absolute open flow of 4846 MCF.

Q When was this well first completed?

A December 13th, 1958.

Q Do you have a log of this well?

A Yes, I do.

MR. WHITWORTH: We'll ask that that be marked El Paso's Exhibit No. 3.

(Thereupon, the document was marked as El Paso's Exhibit No. 3 for identification.)

Q (By Mr. Whitworth) What does this log show?

A This log shows the top and the base of the Gallup formation with its perforated intervals, the top of the Dakota formation with its perforated intervals.

Q Will the equipment that El Paso has installed in this well permit the performance of any kind of test that the Commission might require?

A Yes, it will permit such tests.

Q In your opinion, will the granting of this application prevent unnecessary drilling of wells and thereby prevent waste?

A Yes, it would.

Q Would it prejudice correlative rights?

A No.

Q How were El Paso's Exhibits Nos. 1, 2 and 3 prepared?

A Exhibits No. 1 and 2 were prepared at my request by the Engineering Department in our Farmington office and Exhibit No. 3 is a standard induction and electric log done by the Schlumberger Well Surveying Corporation.

MR. WHITWORTH: We ask that the exhibits be admitted.

MR. FISCHER: Without objection, they will be admitted.

Q (By Mr. Whitworth) Do you have anything further that you would like to add to your testimony in this case?

A No, I do not.

MR. FISCHER: Are there questions of Mr. Mason?

I have some questions, Mr. Mason.

CROSS EXAMINATION

BY MR. FISCHER:

Q I wanted to ask you one thing: Is this tubing two inch OD EUE or two inch ID EUE?

A Well, it's actually two and three quarter inch, two and three eighths inch OD which is the nominal two inch type tubing. I do have the exact measurements on that if you would like.

Q No, I just wanted to know what you meant, whether it was ID or OD.

A All right.

Q You don't think that this roughly eight hundred and thirty seven tail pipe behind your operation of the long string of tubing will in any way effect the packer?

A No, it is not felt that it would.

Q Is this a continuous string of tubing, your long string, or does it have a safety joint?

A To my knowledge it does not have a safety joint.

Q Just one continuous string with your chevron packing there where it fits in the--

A Yes.

Q --packer, is that correct?

A Yes.

MR. FISCHER: That's all of the questions I have. Are there any other questions of the witness?

The witness may be excused, if not.

(Witness excused)

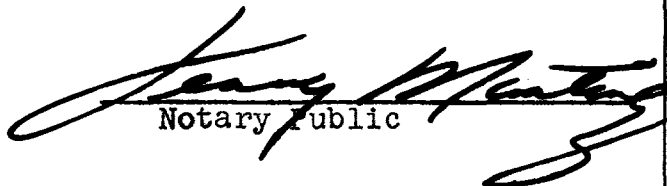
MR. FISCHER: Any statments to be made in this case?

The case will be taken under advisement.

STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

I, JERRY MARTINEZ, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing were reported by me in Stenotype, and that the same was reduced to typewritten transcript by me and contains a true and correct record of said proceedings, to the best of my knowledge, skill and ability.

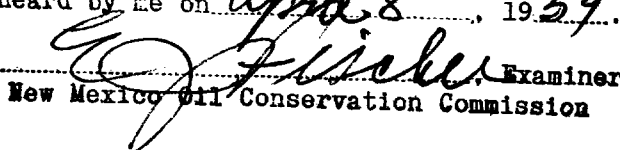
DATED this 15th day of April, 1959, in the City of Albuquerque, County of Bernalillo, State of New Mexico.


Notary Public

My Commission Expires:

January 24, 1962

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 1625, heard by me on April 8, 1959.


Examiner
New Mexico Oil Conservation Commission