

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

IN THE MATTER OF:

Case No. 1578

TRANSCRIPT OF HEARING

JANUARY 7, 1959

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BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

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IN THE MATTER OF: :

Case 1578 Application of Amerada Petroleum Corporation :
 for a dual completion. Applicant, in the :
 above-styled cause, seeks an order autho- :
 rizing it to dually complete its Turner Well :
 No. 1 located in the SW/4 SW/4 of Section :
 17, Township 20 South, Range 38 East, Lea :
 County, New Mexico, in such a manner as to :
 permit the production of oil from an undes- :
 ignated Abo pool and oil from the Warren- :
 McKee Pool through parallel strings of :
 tubing. :

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 Mabry Hall
 Santa Fe, New Mexico
 January 7, 1959

BEFORE:

Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

MR. UTZ: The next case on the docket will be 1578.

MR. PAYNE: Case 1578, "Application of Amerada Petroleum Corporation for a dual completion."

MR. KELLAHIN: Jason Kellahin, Kellahin and Fox, Santa Fe, New Mexico, representing the applicant.

If the Examiner please, I think while a different formation is involved in part in Case 1579, it might save some time if the Examiner cared to consolidate the two cases. We will try to separate the testimony at the proper points.

MR. UTZ: I think we'd just as well keep them separate.

MR. KELLAHIN: Fine.

(Witness sworn in).

(Whereupon, the documents were marked as Applicant's Exhibits One, Two and Three for identification.)

RICHARD E. BROCHAT

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A My name is Richard E. Broschat.

Q By whom are you employed, Mr. Broschat?

A Amerada Petroleum Corporation.

Q In what position?

A I am the District Engineer at Monument, New Mexico.

Q Have you previously testified before this Commission as a Petroleum Engineer and have your qualifications been accepted?

A Yes, I have.

MR. KELLAHIN: Are the witness' qualifications acceptable?

MR. UTZ: They are acceptable.

Q (By Mr. Kellahin) Mr. Broschat, are you familiar with the application in Case 1578?

A I am.

Q Is the subject well under your jurisdiction?

A Yes sir, it is.

Q Now, under the terms of that application, what is proposed, Mr. Broschat?

A Under the terms of this application, we propose to dually complete the Fred Turner, Junior Number 1 in the McKee and the Abo formations.

Q Is the Warren-McKee a designated pool?

A Yes, sir.

Q And recognized as such?

A Recognized as such.

Q In this area where the Abo formation is involved, is that in a designated pool?

A It is not within the limits of any designated pool.

Q Referring to what has been marked as Exhibit One, will you state what that shows?

A Exhibit Number One is a plat showing a portion of the Warren-McKee field. The subject well, the Fred Turner, Junior Number 1, is circled in red. This exhibit shows the location of all offsetting wells and the lease ownership in this area.

Q Referring to what has been marked as Exhibit Number Two, would you state what that shows and describe it?

A Exhibit Number Two is a diagrammatic sketch of our proposed dual completion. This exhibit shows our casing program, it shows the 13 3/8 set at 2358 feet, 8 5/8 intermediate string set at

5730 and the 5 1/2 inch production casing set at 9300 feet. It shows the perforations in the Abo formation from 7250 to 7600, perforations in the McKee from 9,012 to 9,098, and we have a Baker Model "D" production packer set at 8925 feet.

Q Is the well presently producing, Mr. Broschat?

A The well is presently producing from the McKee formation.

Q Is that formation flowing or pumping?

A It's flowing.

Q Do you anticipate that the Abo will flow?

A We are not sure, we may have to pump it.

Q With the type of proposed dual completion contemplated, is it practical and in the interests of conservation and protection of the two formations to install pumping equipment?

A Yes, it will be possible to install pumping equipment.

Q What size tubing do you propose to use?

A We will use 2 1/16 inch Hydrill CS tubing.

Q Will the type of completion you are proposing permit you to make any and all tests for packer leakage or tests which may be prescribed by the Commission?

A Yes sir, it will.

Q And is it a standard type of dual completion?

A It is a standard type of dual completion.

Q Is it a type that has been recognized by this Commission?

A Yes, sir.

Q In your opinion, will that installation be adequate to protect the two producing formations involved?

A Yes, it will.

Q And in the event that workover or treatment of either zone is necessary, will this type of completion permit that?

A Yes, it will.

MR. KELLAHIN: That's all the questions I have.

Q (By Mr. Kellahin) Sorry. Now, do you have a log on the subject well?

A Yes, sir.

Q And is that marked as Exhibit Number Three?

A I haven't marked it, but we plan to use it as Exhibit Three. This well shows the perforations in the Abo and McKee formations.

Q Has any test been made of the Abo formation as yet?

A No sir, we haven't.

Q Were Exhibits One, Two and Three prepared by you or under your direct supervision?

A Yes, they were.

MR. KELLAHIN: At this time, we offer in evidence Exhibits One, Two and Three.

MR. UTZ: Without objection, Exhibits One, Two and Three will be accepted.

MR. KELLAHIN: That's all the questions I have.

MR. UTZ: Mr. Broschat, do you have any pressure estimate or information on these two zones?

A Yes, I do. The original bottomhole pressure in the McKee formation--I believe this well was completed in 1951--was 3468 PSI at minus 5500. On the last bottomhole pressure run on the well May 18, 1958, the bottomhole pressure was 1,027 PSI. We did run a bottomhole pressure in the Abo and the bottomhole pressure at minus 3900 was 1341 PSI.

MR. UTZ: 1341?

A Yes, sir.

MR. UTZ: How about gravity?

A The gravity of the McKee is 44 degrees, and in the Abo, we believe it is between 38 and 41 degrees.

MR. UTZ: What type crudes are both of these zones?

A The McKee is a sweet crude, and I am not sure about the Abo.

MR. UTZ: The McKee has dropped from 3468 originally to 1,027 on your last --

A Yes, sir.

MR. UTZ: Are there other questions?

MR. FISCHER: What is the Abo original bottomhole pressure on your test?

A 1341 PSI.

MR. FISCHER: I have another question, Mr. Examiner. What is the IP of that 5 1/2 inch casing?

A I don't believe I have that information with me,
Mr. Fischer.

MR. FISCHER: Do you have an idea of what it is?

A I can give you the weight of the pipe. We ran 15 1/2
pound, 17 pound and 20 pound casing.

MR. FISCHER: Do you know what your clearance would be
inside when you put both strings of Hydrill in it?

A No, I'm afraid I don't have that information with me.

MR. FISCHER: Both of those strings of Hydrill will be
bull plugged, will they?

A We dropped standing valve cages in each of the strings
to keep them from going out of the tubing.

MR. FISCHER: All right, that's all I have.

MR. UTZ: Mr. Broschat, would you be willing to run any
tests the Commission may require to prove the separation between
these two zones?

A Yes sir, we certainly would.

MR. UTZ: Are there any other statements to be made in
this case?

The witness may be excused.

(Witness excused).

MR. UTZ: If there are no further statements, the case will
be taken under advisement.

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 was 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 hearing, to the best of my knowledge, skill and ability.

DATED this 21st day of January, 1959, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

Kenny R. Martin
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. 1528, heard by me on Jan. 2, 1959.

[Signature], Examiner
New Mexico Oil Conservation Commission