

BEFORE THE
OIL CONSERVATION COMMISSION
FEBRUARY 25, 1960
SANTA FE, NEW MEXICO

IN THE MATTER OF:

CASE 1907: Application of Gulf Oil Corporation for an oil-
oil dual completion. Applicant, in the above-
styled cause, seeks an order authorizing the
dual completion of its J. N. Carson (NCT-A)
Well No. 11, located in Unit K of Section 28,
Township 21 South, Range 37 East, Lea County,
New Mexico, in such a manner as to permit the
production of oil from the Wantz-Abo Pool and
the production of oil from the Paddeock Pool
through parallel strings of 2 3/8-inch tubing.

BEFORE:

Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

MR. UTZ: Case 1907.

MR. FLINT: Case 1907. Application of Gulf Oil Cor-
poration for an oil-oil dual completion.

MR. KASTLER: If the Examiner please, my name is Bill
Kastler. I'm appearing on behalf of Gulf Oil Corporation. I am a
Roswell lawyer. Our witness today is John Hoover.

(Witness sworn)

MR. UTZ: Any other appearances in this case?

JOHN HOOVER,

called as a witness, having been first duly sworn on oath, testi-

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fied as follows:

DIRECT EXAMINATION

BY MR. KASTLER:

Q Will you please state your name, where you reside, and by whom you are employed, and in what capacity?

A John Hoover, employed by Gulf Oil Corporation, Roswell, New Mexico. Petroleum engineer.

Q Have you previously appeared and testified before the New Mexico Oil Conservation Commission as an expert production engineer?

A Yes, I have.

Q Are you familiar with Gulf's application in Case 1907?

A Yes, sir, I am.

Q Would you please state briefly what Gulf seeks in this application?

A Gulf is asking for approval of the oil-oil dual completion in the Wantz-Abo and Paddock Pools for our J. N. Carson (NCT-A) Well No. 11.

Q Have you prepared certain Exhibits for introduction into evidence in this case?

A Yes, sir.

Q I call your attention to a lease plat which was marked Case 1907, Exhibit No. 1. Would you please explain what is shown on this Exhibit pertinent to this case?

A On this lease plat we have shown the Carson "A" lease

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outlined in green, and the Carson "A" No. 11 circled in red. The Carson "A" lease is described as the NE/4 of the SW/4 and the W/2 of the SE/4 of Section 28, and the NW/4 of the NE/4 of Section 35, Township 21 South, Range 37 East. Our Carson "A" Well No. 11 is located 2086 feet from the South and West lines of this Section 28. It was originally completed in June of 1949 in the Hare Pool. In September, 1954 it was deepened to the Connell, C-o-n-n-e-l-l pay, and we now propose to abandon the formations in the Hare Pool, and recomplete as a dual in the Wantz-Abo Paddock formations.

Q This will be the first time this well is to be completed as a dual completion, is that correct?

A Yes, it will be.

Q Mr. Hoover, I call your attention now to a log marked Exhibit No. 2. Will you identify this and refer to it and state what is pertinent to this case and shown on this Exhibit?

A This is a log, electric log showing the tops of the formations and the perforated intervals. It shows that the Paddock is perforated in the interval 5108 to 5128. We have a well depth shown as 33 barrels of oil and 3 barrels of load water through 2 3/8 tubing in eight hours. However, in a more recent test, it pumped 45 barrels of oil in twenty-four hours. The Wantz-Abo pay is shown, and we also show the perforations being from 7122 feet to 7226 feet and is perforated selectively to test the well bore with 173 barrels of oil through 3 3/8-inch tubing and 8/16 choke in twenty-four hours.



Q I now call your attention to a proposed mechanical installation of an oil-oil dual completion for J. N. Carson (NCT-A) No. 11 labeled Exhibit No. 3. Referring to Exhibit No. 3, would you explain what all can be seen on this diagram?

A Is the proposed mechanical installation; shows that we have in this well 13 3/8-inch casing set at 299 feet. It was cemented to the surface. The 9 5/8-inch casing is set at 2800 feet, cemented with 1300 sacks, and by temperature survey, the top of the cement was at 585 feet. Have 7-inch casing set at 7694 feet. It was cemented with 700 sacks. The top of the cement by temperature survey was 2580 feet. The total depth on this well was 7825. We have set a cast iron bridge plug at 7300 feet and dumped two sacks of cement on top. Also shown on this sketch is the proposed producing string, which would be two strings of 2 3/8-inch tubing. We have a Baker Model "D" packer at 5700 feet with a long string producing from the Abo below the packer. The Paddock perforations are 5108 feet to 5128 feet. Where I said proposed Abo perforations, I would like to correct this. It says 7147 to 7226. We now have, the top perforations is at 7122, actual perforation. So it would be 7122 to 7226. On the color scheme, the pink is the Abo production, the green is the Paddock. I believe that covers our mechanical installation.

Q To the best of your information, is this the first time that an oil-oil dual completion has been proposed or made for the Wantz-Abo and Paddock Oil Pools?



A To my understanding, it is, and that's the reason for the hearing today. All of the equipment has been used in other dual completions that have been approved by the Commission.

Q And has it been successful as far as Gulf has had experience with it?

A It has been successful, yes, sir.

Q Would the granting of this application result in substantial savings to the operator?

A Yes, it would. If we were required to drill a Paddock well, it would entail an expenditure of about \$60,000, whereas we can accomplish this dual completion for approximately \$28,000.

Q I ask you to listen closely to this question. Would the granting of this application result in waste or impair correlative rights?

A No, it would not.

Q If granted permission to dually complete this well, would Gulf comply with any order of the Commission requiring tests and reports?

A Yes, we would.

Q In your opinion, would this proposed method of dual completion assure complete separation or segregation of oil from the Wantz-Abo and the Paddock Pools?

A Yes, it would.

Q Were Exhibits 1 and 2 and 3 prepared by you or at



your direction and under your supervision?

A Yes, sir, they were.

MR. KASTLER: At this time, Mr. Examiner, I would like to move to admit Exhibits 1, 2 and 3 into evidence in this case.

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

MR. KASTLER: I would also like to request that Mr. Hoover's qualifications as an expert witness be acceptable.

MR. UTZ: They are.

MR. KASTLER: Thank you. That concludes the questions I have on direct.

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Hoover, do you have bottom hole pressure information on these two zones?

A We ran a bottom hole pressure in the Wantz-Abo section. However, the Paddock had a pump in it, and we did not run a bottom hole pressure in there. But I have a bottom hole pressure on our Carson "C" No. 7. Referring to Exhibit No. 1, that's the diagonal southeast offset, and the bottom hole pressure in the Paddock on that well, which was taken about a year ago, however, was 1540 pounds at 5000 feet. On the Abo section, we ran a bottom hole pressure on this Carson "A" No. 11 on February 12, and it had a bottom hole pressure of 2816 pounds at 7200 feet. Correcting these bottom hole pressures to packer setting depth, we would have



approximately a 500-pound differential across the packer.

Q How about the gravity of the crudes?

A The gravity on the Wantz-Abo, and this is taken from our Wantz-Abo production on the Eunice King lease, which is just to the north, averages forty point six. On the Paddock, which is taken from Eunice King No. 10, was thirty-five point eight.

Q What type crude does each produce?

A We have not run a fluid analysis on the Wantz-Abo or the Paddock in this particular area, and we are not able to get that from any offset operators, which they apparently have not run them. But in other Paddock productions, our Justis, Paddock and Monument production, that is sour crude on the Wantz-Abo. We have had occasion, several years ago, to analyse some casinghead gas from Abo production in Section 21 -- I take that back -- Section 23 of 21, 37, and the casinghead gas in that area indicated sweet.

Q I notice on your plat No. 1, you have a minimum of three wells. Do you think you will have room to drill any more here?

A It is getting kind of close; some of them there are four.

MR. UTZ: Do you have any questions? Does anyone have any more questions? No more questions, the witness may be excused.

(Witness excused)

MR. UTZ: Do you have anything further?

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MR. KASTLER: Nothing further.

MR. UTZ: Any statements to be made in this case?

The case will be taken under advisement.

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