

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
November 8, 1962

IN THE MATTER OF:

Application of Gulf Oil Corporation for a
triple completion, Lea County, New Mexico.
Applicant, in the above-styled cause,
seeks authority to complete its H. T.
Mattern (NCT-A) Well No. 3, located in
Unit P of Section 24, Township 21 South,
Range 36 East, Lea County, New Mexico, as
a triple completion (conventional) to pro-
duce oil from the Paddock, Blinebry, and
Drinkard Oil Pools through parallel strings
of tubing.

CASE
NO. 2684

BEFORE:

Daniel S. Nutter, Examiner.

TRANSCRIPT OF PROCEEDINGS

MR. NUTTER: The next case will be 2684.

MR. DURETTE: Case 2684. Application of Gulf Oil Cor-
poration for a triple completion, Lea County, New Mexico.

MR. KASTLER: Bill Kastler, appearing for Gulf Oil Cor-
poration. Our witness is Mr. John H. Hoover.

J O H N H. H O O V E R, a Witness, called by the Applicant,
having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KASTLER:

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Q Mr. Hoover, will you please state for the record, your name, by whom you are employed, where your place of employment is, and what your capacity or position is?

A My name is John Hoover; employed by Gulf Oil Corporation as Petroleum Engineer, Roswell, New Mexico.

Q Have you previously qualified as a petroleum engineer competent to give testimony before the New Mexico Oil Conservation Commission?

A Yes, sir.

MR. KASTLER: Are the witness' qualifications satisfactory?

MR. NUTTER: Yes, they are.

Q (By Mr. Kastler) Mr. Hoover, will you please explain what Gulf is seeking in this Case Number 2684?

A We are requesting an approval of a triple completion (conventional), for our H. T. Mattern NCT-A Well Number 3 in the Paddock, Blinebry and Drinkard Oil Pools.

Q Have you prepared a Lease Plat showing the location of this well?

A Yes, sir, and it's marked Exhibit Number 1.

Q Will you please explain what this exhibit shows?

A This exhibit shows the H. T. Mattern NCT-A Lease, which is outlined in red, and it's described as the S/2 of Section 24, Township 21 South, Range 36 East, Lea County, New Mexico. Also shown is the H. T. Mattern "A" Well Number 3 which is circled in



red, and is located 660 feet from the South and East lines of the Section 24. The drilling of this well was started on September 26th, 1962.

Q Has there been a similar triple completion approved for these particular three oil pools?

A Yes, sir. Gulf-Graham-State NCT-I Well Number 1 was approved by Order Number R-2321 on October 3rd, 1962. Referring to Exhibit Number 1, this well is an East offset to the Mattern "A" Number 3. The exhibit shows that well Number 1 as an open circle, however, it has now been completed and it is in the Paddock, Blinebry, and Drinkard Oil Pools.

Q Will you please explain what is shown on Exhibit Number 2?

A Yes, sir. Exhibit Number 2 is a log of the Mattern "A" Well Number 3, and we have shown on this log the top and bottom of the producing formations and the perforations. The top of the Paddock pay at 5180, the base of the Paddock pay 5198. The Paddock perforations 5180 to 5188. The top of the Blinebry pay is shown as 5610 feet; the base of the Blinebry pay as 5938 feet. The Blinebry has been perforated selectively in the interval 5612 feet to 5892 feet. The Drinkard top of pay is shown as 6540 feet, with a base, 6684 feet, and it has been selectively perforated in the interval, 6542 feet to 6654 feet.

Q Will you please explain what is shown on Exhibit Number 3?



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A Yes, sir. Exhibit Number 3 is the schematic diagram of the proposed triple completion. On this exhibit I have made some corrections in the casing setting and the perforations, because during the time that this exhibit was made, as proposed the casing has been set and we have perforated, so therefore I have changed that in pencil. This exhibit shows that we have 13 and 3/8ths inch casing set at 326 feet. It was cemented with 360 sacks; the cement did not circulate. However, sixty sacks were pumped outside of the casing, and the cement was brought to the surface. This casing was tested at 800 pounds for 30 minutes and okay. The cement was drilled out, tested again with 800 pounds for 30 minutes, okay. We have 9 and 5/8ths inch casing set at 3689 feet, and it was cemented with 325 sacks, and the temperature survey indicated the top of the cement at 2550 feet. It was tested with 1500 pounds 30 minutes, okay. Cement was drilled out, tested with a thousand pounds 30 minutes, okay.

We have a 7-inch liner set at total depth of 6714 feet, with the top of the liner at 3599 feet. It was cemented with 380 sacks at top of the liner, was squeezed with 115 sacks. The top of the liner was tested with 1750 pounds 30 minutes, and okay. The cement was drilled out at the top of the liner, tested with 2050 pounds for 30 minutes, okay.

The Drinkard perforations, as shown, are 6542 feet to 6654 feet. Blinbry perforations, 5612 feet to 4892 feet. Paddock perforations, 5180 to 5188 feet. The plug-back depth of this well



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is 6684 feet. A Baker Model "D" Packer has been set at 6500 feet. We propose to utilize three strings of 2 and 3/8ths inch tubing with a Baker Model "K" Production Packer set between the Blinebry and Paddock perforations; the Baker Model "D" Packer is set between the Drinkard and Blinebry perforations; the intermediate string will be latched into this Baker Model "K" Packer, which is run on the long string, and the short string will be latched into a preliminary string anchor also on the long string.

Q Do you have any bottom-hole pressure information?

A Yes, sir. On our Graham-State "I" Well Number 1, which previously located that well as an East offset to this Mattern "A" Well Number 3, bottom-hole pressures were taken on November 2nd, 1962. The Drinkard pressure was 2371 pounds at a minus 3525 feet. The Blinebry, 2245 pounds at a minus 2400 feet. The Paddock, 1697 pounds at a minus 1775 feet.

Q Any production tests on this well itself?

A The Drinkard zone is the only one that has been treated and tested. The results of that test were as follows: It flowed 392 barrels of oil, 7 barrels of residue, in 17 hours through an 18-64 inch choke; gas volume, 476 MCF per day; gas-oil ratio, 860; corrected gravity 38.8; flowing tubing pressure, 550 pounds. Even though the Blinebry and the Paddock zones have been perforated, they have just been perforated and no evaluation has been made. However, for comparison, I will give a test that we obtained on our Graham-State "I" Well Number 1. In the Blinebry, it flowed



153 barrels of oil, 27 barrels sand and water, through 2 and 3/8ths inch tubing, 18-64 inch choke in 24 hours; gas volume, 181 MCF per day; tubing pressure, 400 pounds; corrected gravity, 36.5 degrees; gas-oil ratio, 1183. The Paddock flowed 119 barrels of oil, no water, 2 and 3/8 inch tubing, 12-64 inch choke in 24 hours; gas volume, 181 MCF per day; gas-oil ratio, 1521; tubing pressure, 720 pounds; a corrected gravity 38 degrees.

Q If granted, will this triple completion prevent waste, and will it protect correlative rights?

A Yes, sir.

Q Were Exhibits 1, 2, and 3 prepared by you, or at your direction and under your supervision?

A Yes, they were.

MR. KASTLER: I would like to move Gulf's Exhibits 1 through 3, be admitted in evidence.

MR. NUTTER: Gulf's Exhibits 1 through 3 will be admitted in evidence.

MR. KASTLER: That completes my direct examination.

MR. NUTTER: Does anyone have any questions of Mr. Hoover?

(No response.)

MR. NUTTER: He may be excused. Do you have anything further, Mr. Kastler?

MR. KASTLER: No, sir.

MR. NUTTER: Does anyone have anything else to offer in

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E X H I B I T S

<u>NUMBER</u>	<u>EXHIBIT</u>	<u>MARKED</u>	<u>OFFERED</u>	<u>ADMITTED</u>
GULF'S #1	H.T.Mattern NCT-A Lease	3	7	7
GULF'S #2	Log	4	7	7
GULF'S #3	Schematic Diagram	4	7	7

