

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

April 16, 1953

CASE 527: In the matter of the application of Continental Oil Company for an order permitting dual completion of its A. M. Lockhart A-27, Well No. 5, NE/4 NE/4 Section 27, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, in such manner as to permit production of oil from the Drinkard formation of the Drinkard Pool and gas from the Blinberry formation of the Blinberry Gas Pool.

MR. RANDOLPH: William Randolph, Continental Oil Company. If the Commission please, we'd like to consolidate the two cases - since they are both - - that is, 527 and 528 - - since they are both on the same lease and they are Drinkard-Blinberry duals.

MR. SPURRIER: The advertisement for Case 528 will be read.

Case 528: In the matter of the application of Continental Oil Company for an order permitting dual completion of its A. M. Lockhart A-27, Well No. 7, NW/4 NW/4 Section 27, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, to permit production of oil from the Drinkard formation of the Drinkard Pool and gas from the Blinberry formation of the Blinberry Gas Pool.

MR. RANDOLPH: Continental Oil Company's A-27 No. 5 is located 660' from the north and east lines of Section 27, Township 21 South, Range 37 East, Lea County, New Mexico. I have here a plat of the lease, surrounding lease hole, showing the location of this well. I would like to introduce this as Exhibit A.

MR. SPURRIER: Without objection, it will be received.

MR. RANDOLPH: This well was completed in the Drinkard Pool on December the 3rd, 1947 and is presently producing a marginal allowable of 12 barrels oil per day, through perforations opposite the Drinkard section from 6511' to 6565'. I have a radio-activity log on the well I'd like to introduce as Exhibit B.

MR. SPURRIER: Without objection, it will be received.

MR. RANDOLPH: Before dually completing this well, it is proposed to perforate some additional pay sections in the Drinkard so as to have all of the productive sections of the Drinkard open prior to the dualing

of the well and thereby eliminating any necessary additional major remedial work below our packer.

After perforating this well in the oil zone, it is proposed to dually complete the well as a Drinkard oil and a Blinbery gas well in the following manner:

Set a 5 $\frac{1}{2}$ " Baker Model "B" Retainer Production Packer at approximately 6430 feet.

Selectively perforate the Blinbery gas section in the interval of 5470' to 5600'.

Run 2 $\frac{1}{2}$ " tubing with side door choke and complete the well so there can be no comingling of well fluids in producing the Blinbery gas from the annulus between the casing and tubing and the Drinkard oil through the tubing. The well head will be equipped with all necessary connections to permit accurate measurement of any natural gas, oil, or oil and gas produced from each separate stratum as may be required by the Commission.

Perform and report the results of any and all surveys and tests including segregation tests, as may be required by the Commission and in such a manner as the Commission may designate.

The mechanical equipment to be used in this dual completion is the same as has been approved previously by the Commission on numerous similar applications.

The bottom hole pressure of this well on August 7, 1952 was 1,101 pounds per square inch. The gas zone is expected to have a pressure of approximately 2,500 pounds per square inch. Therefore, the maximum pressure differential across the packer will not exceed approximately 3,000 pounds per square inch. The proposed mechanical equipment has proven to be of such construction as to withstand much greater pressures and will prevent the comingling of fluids around or through it during the life of the well.

I have here a schematic plat showing the present condition of the well and the condition of the well after the proposed dual completion. I would like to introduce this as Exhibit C.

MR. SPURRIER: Without objection, it will be received.

MR. RANDOLPH: This -- you will notice on Exhibit A, we have shaded in an area there of 160 acres which is the -- in this particular well is the NE/4 of Section 27 which provides us with a -- 4 160 acres to assign this well a better preparation. We also have a market in the state for any high pressure gas produced from this well.

On Case 528, the Lockhart A-27 No. 7 is completed -- was completed in the Drinkard pool on February 5, 1950. It is presently producing a marginal allowable of 37 barrels of oil per day through perforations opposite the Drinkard section from 6515' to 6618'.

It is proposed to perforate the Blinbery gas section at intervals of 5,500' to 5,650'.

The proposed manner of dual completion is identical in all other respects as that presented in the previous well.

The bottom hole pressure of this well on August 7, 1952 was 1,223 pounds per square inch.

We also have 160 acres in specifically the NW/4 of Section 27 that can be assigned this well in the event of preparation and a market is available for the sale of any high pressure gas produced from it.

As in the previous well, I have three exhibits, the lease plat, the radio-activity log and the present mechanical condition of the well and the condition of the well after the proposed drilling which I would like to submit as Exhibits, A, B and C respectively.

MR. SPURRIER: Without objection, they will be received.

MR. RANDOLPH: That's all I have.

MR. SPURRIER: Does anyone have any questions of the witness? If there are no questions, the witness will be excused. We will take these two cases under advisement and will move on to Case 529.

STATE OF NEW MEXICO)
) ss.
COUNTY OF SANTA FE)

I hereby certify that the foregoing and attached transcript of hearing

in Cases 527 and 528 before the Oil Conservation Commission on April 16, 1953 at Santa Fe, is a true record of the same to the best of my knowledge, skill and ability.

DATED at Santa Fe, this 30th day of April, 1953.



Audrey M. Henrickson

My commission expires September 20, 1955.