

# SUNRAY MID-CONTINENT OIL COMPANY

11th floor Wilco Building  
Midland, Texas

*Rec'd  
6-14  
Jsu*

June 12, 1958

New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

Re: Case 1472, Oil-Oil Dual Completion  
Application on Sunray Mid-Continent  
Oil Company's State Land "15" #3

Attention: Mr. Daniel S. Nutter

Dear Sir:

Shown below are the gas-oil ratios and liquid hydro-carbon gravities that have been taken on Sunray Mid-Continent Oil Company's State Land "15" Well No. 3 since the Blinebry started to produce:

<u>Date</u>	<u>GOR, CF/B</u>	<u>Gravity, ° API</u>
<del>7-9-54</del>	<del>8,730</del>	<del>not taken</del>
4-12-55	22,320	48.9
12-9-55	5,380	45.0
5-1-56	4,790	63.0 <sup>v</sup>
10-30-56	2,247	63.0 <sup>v</sup>
5-26-57	2,739	43.4
11-7-57	2,152	40.8

This information was requested at the Examiner Hearing of June 11, 1958 of Case 1472.

If any other information is desired, we will be pleased to supply it.

Very truly yours,

SUNRAY MID-CONTINENT OIL CO.

*D. E. Hall*

D. E. Hall, Sr. Engineer

DEM/mbh

cc: William R. Loar  
E. J. Pierce



Case 1472

# SUNRAY MID-CONTINENT OIL COMPANY

P. O. BOX 2039

TULSA 2, OKLAHOMA

R. E. FOSS, VICE PRESIDENT  
R. W. GRIFFITH, ASST. TO THE VICE PRESIDENT  
M. S. PATTON, JR., MANAGER  
ENGINEERING DIVISION

PRODUCTION DEPARTMENT  
May 22, 1958

C. J. KERWIN, SUPERINTENDENT  
PRODUCTION DIVISION  
L. G. RODGERS, GENERAL MANAGER  
GAS DIVISION  
J. H. DOUMA, MANAGER  
JOINT OPERATIONS DIVISION

New Mexico Oil Conservation Commission  
125 Mabry Hall  
Capitol Building  
Santa Fe, New Mexico

Gentlemen:

Enclosed are three copies of an application of Sunray Mid-Continent Oil Company for permission to dually complete its State Land "15" Well No. 3 as an oil well in the Blinebry Pool and as an oil well in the Drinkard Pool in Lea County, New Mexico.

Very truly yours,

SUNRAY MID-CONTINENT OIL COMPANY

*William R. Loar*  
William R. Loar  
Chief Proration Engineer

JWS/at  
Encl.

*Druckel Mailed  
5-27-58  
B P*



IN THE MATTER OF THE APPLICATION OF SUNRAY  
MID-CONTINENT OIL COMPANY FOR AN ORDER  
PERMITTING THE DUAL COMPLETION OF ITS STATE  
LAND "15" WELL NO. 3 AS AN OIL WELL IN THE  
BLINEBRY POOL AND AS AN OIL WELL IN THE  
DRINKARD POOL IN LEA COUNTY, NEW MEXICO, AS  
AN EXCEPTION TO RULE 8 OF ORDER NO. R-610  
OF THE SPECIAL RULES AND REGULATIONS FOR THE  
BLINEBRY OIL POOL.

CASE NO. 1478

A P P L I C A T I O N

TO THE HONORABLE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO.

COMES NOW the Applicant, Sunray Mid-Continent Oil Company, and alleges and states as follows:

1. That it is the owner and operator of its State Land "15" Lease covering the South half of the South half (S/2 S/2) of Section 16, Township 21 South, Range 37 East, Lea County, New Mexico.
2. That State Land "15" Well No. 3 is located 660 feet from the South line and 1980 feet from the East line of said Section 16 and that said Well No. 3 was completed as an oil well in the Drinkard Pool on June 12, 1947, at a total depth of 6660 feet through perforations from 6540 to 6635 feet. That 13-3/8" OD casing was set at 215 feet with 250 sacks of cement. That 8-5/8" OD casing was set at 2878 feet with 1600 sacks of cement. That 5-1/2" OD casing was set at 6659 feet with 500 sacks of cement.
3. That this Commission by its Administrative Order No. DC-67, issued February 15, 1954, authorized a gas-oil dual completion for said Well No. 3 with the Drinkard Zone of the Drinkard Oil Pool producing through the tubing and the Blinebry Zone of the Blinebry Gas Pool producing through the casing-tubing annulus.
4. That said dual completion was completed March 26, 1954, with the Blinebry Zone producing through perforations from 5600 to 5700 feet, the Drinkard Zone through perforations from 6540 to 6635 feet, and a Baker Model D5R packer set at 6470 feet with 2-1/2" tubing set in said packer.
5. That said Well No. 3 is now producing liquid hydrocarbons from the Blinebry Zone with a gravity of less than 51° API and with a producing gas-liquid hydrocarbon ratio of less than 32,000 cubic feet of gas per barrel of liquid hydrocarbons and, therefore, in accordance with Rule 2 of Order No. R-610-B of the Special Rules and Regulations for the Blinebry Oil Pool and Rule 18 of Order No. R-610-B of the Special Rules and Regulations for the Blinebry Gas Pool, should be classified as an oil well.
6. That Rule 8 of Order No. R-610 of the Special Rules and Regulations for the Blinebry Oil Pool states that "The dual completion of a well to cause said well to be classified as an oil well in the Blinebry Oil Pool and an oil well in any other oil or gas pool as designated by the Commission is hereby prohibited".
7. That Statewide Rule 112-A permits the dual completion of a well between two oil zones only by order of the Commission upon hearing.
8. That since said Well No. 3 is now producing oil from the Drinkard Zone, and the present completion in the Blinebry Zone will have to be reclassified from gas to oil, an exception to Rule 8 of Order No. R-610 of the Special Rules and Regulations for the Blinebry Oil Pool and a dual completion permit under Statewide Rule 112-A are hereby requested.
9. That it is proposed to perforate additional Blinebry pay from 5575 to 5600 feet and from 5720 to 5750 feet and acidize in an attempt to increase the productivity of said zone in Well No. 3.
10. That it is proposed to produce the Drinkard Oil Zone through one string of 2-1/16" Hydril CS tubing set in a Baker Model D5R Packer at approximately 6470 feet and to produce the Blinebry Oil Zone through a separate string of 1-1/2" Regular Tubing to be set at approximately 5570 feet.

11. That this method of dual completion is mechanically feasible and practical; that based on histories of nearby wells both zones should flow to their economic limits, but that if necessary either or both zones can feasibly and practically be artificially lifted; that measurement of gas-oil ratios and bottom hole pressures may be taken on each zone using this proposed equipment; and that the flow efficiencies will probably be improved using smaller strings of tubing.

12. That attached hereto and made a part hereof is a plat, labeled Exhibit "A", which shows the location of all Drinkard and Blinebry wells on Applicant's lease and on all offset leases. That a copy of this application has been mailed to all offset operators as shown on the attached affidavit.

13. That attached hereto and made a part hereof is a diagrammatic sketch, labeled Exhibit "B", which shows the proposed dual completion of said Well No. 3.

14. That in the interest of conservation, the prevention of waste and the protection of correlative rights this application should be granted.

WHEREFORE, Applicant prays that this application be set for hearing, that notice thereof be given as required by law and that upon the evidence adduced at such hearing, the Commission issue an order permitting Applicant to produce its State Land "15" Well No. 3 as a dual completion between the Drinkard Oil Pool and Blinebry Oil Pool in the manner as requested by this application.

DATED this 20 day of May, 1958.

SUNRAY MID-CONTINENT OIL COMPANY

By William R. Loar  
William R. Loar  
Attorney