

Case No.

558

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Application, Transcript,  
Small Exhibits, Etc.

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE NO. 558  
ORDER No. R-352

THE MATTER OF THE APPLICATION OF  
PHILLIPS PETROLEUM COMPANY FOR  
PERMISSION TO EFFECT DUAL COMPLE-  
TION OF ITS DENTON NO. 12 WELL, LOCATED  
IN SW/4 NW/4, SECTION 11, TOWNSHIP 15  
SOUTH, RANGE 37 EAST, NMPM, LEA COUNTY,  
NEW MEXICO (IN THE DENTON FIELD) IN SUCH  
A MANNER AS TO PERMIT PRODUCTION OF OIL  
FROM THE DEVONIAN FORMATION THROUGH  
EXISTING PERFORATIONS, 12,600 FEET TO  
12,700 FEET, AND OIL FROM THE WOLFCAMP  
FORMATION AFTER PERFORATING AT 9350  
FEET TO 9590 FEET.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on July 16, 1953, at Santa Fe, New Mexico, before the Oil Conservation Commission, hereinafter referred to as the "Commission".

NOW, on this 25<sup>th</sup> day of August 1953, the Commission, a quorum being present, having considered the application and the testimony adduced at said hearing, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause.

(2) That dual completion of the Denton No. 12 Well located in the SW/4 NW/4, Section 11, Township 15 South, Range 37 E, NMPM, Lea County, New Mexico, (in the Denton Field) for production of oil from the Denton-Wolfcamp formation, and oil from the Denton-Devonian formation would be subject to the operational hazards incident to great depth.

(3) That there exists between the two reservoirs a considerable pressure differential, and, should interzone communication occur from any cause, the deeper Devonian Reservoir with the higher pressure would be injured.

(4) That testimony adduced clearly shows that packer and other mechanical failures in oil-oil dual completions at various depths in other areas, under conditions similar to those existing in the Denton Field, have caused interzone communication.

(5) That dual oil-oil completion of the subject well would under the circumstances not only be conducive of waste, but adversely affect correlative rights, and should be denied.

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Case No. 558  
Order No. R-352

IT IS THEREFORE ORDERED:

That the application of Phillips Petroleum Company for permission to dually complete its Denton No. 12 Well, located in the SW/4 NW/4 of Section 11, Township 15 South, Range 37 East, NMPM, for production of oil from the Denton-Wolfcamp formation, and oil from the Denton-Devonian formation be, and the same hereby is denied.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION



EDWIN L. MECHEM, Chairman



E. S. WALKER, Member



R. R. SPURRIER, Secretary

S E A L

File  
Case 558  
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PHILLIPS PETROLEUM COMPANY

Amarillo, Texas  
June 11 - 1953

Re: Application of Phillips Petroleum Company to effect Oil-Oil Dual Completions between the Devonian and Wolfcamp formations in its Fort Well No. 1, Fonso Well No. 1, and Denton Wells Nos. 12 and 13, Denton Field, Lea County, New Mexico

Mr. W. B. Macey  
Chief Engineer, Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Dear Mr. Macey:

Phillips Petroleum Company desires to oil-oil dually complete between the Devonian and Wolfcamp formations the following wells:

*Case 556* - 1. Fort Well No. 1, located in the NE/4 NE/4, Section 34-14S-37E, Lea County, New Mexico. This well was completed on September 1, 1951, in the Devonian pay at a plugged back total depth of 12,724 feet. 12,789 feet of 5-1/2" casing was set and perforated opposite the Devonian formation from 12,564 feet to 12,630 feet; and from 12,660 feet to 12,710 feet.

It is proposed to perforate the Wolfcamp in this well as follows:

- Perforate 9645'-9680' test for water. If water squeeze
- and Perforate 9580'-9610' test for water. If water squeeze
- and Perforate 9500'-9550' test for water. If water squeeze
- and Perforate 9360'-9460' combine with previous formations that were water free.

Offset operators to this lease with their addresses are as follows:

Atlantic Refining Company	Atlantic Building, Dallas, Texas
Magnolia Petroleum Company	Magnolia Building, Dallas, Texas
Shell Oil Company	Petroleum Building, Midland, Texas
Ralph Lowe & Cabot Carbon Co.	V & J Tower, Midland, Texas

*Case 557* 2. Fonso Well No. 1, located in the NE/4 NE/4, Section 35-14S-37E, Lea County, New Mexico. This well was completed on July 17, 1952, in Devonian pay at a plugged back total depth of 12,687 feet. 12,710.83 feet of 5-1/2" casing was set and perforated opposite the Devonian formation from 12,580 feet to 12,680 feet; and from 12,456 feet to 12,550 feet.

It is proposed to perforate the Wolfcamp in this well as follows:

- Perforate 9560'-9590' test for water. If water squeeze
- and Perforate 9480'-9520' test for water. If water squeeze
- and Perforate 9400'-9440' test for water. If water squeeze
- and Perforate 9260'-9360' combine with previous formations that were water free.

Offset operators to this lease with their addresses are as follows:

Atlantic Refining Company	Atlantic Building, Dallas, Texas
Magnolia Petroleum Company	Magnolia Building, Dallas, Texas
Ralph Lowe & Cabot Carbon Co.	V & J Tower, Midland, Texas

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3. Denton Well No. 12, located in the SW/4 NW/4, Section 11-153-37E, Lea County, New Mexico. This well was completed on June 24, 1952, in Devonian pay at a plugged back total depth of 12,772 feet. 12,752 feet of 5-1/2" casing was set and perforated opposite the Devonian formation from 12,650 feet to 12,700 feet; and 12,600 feet to 12,650 feet.

It is proposed to perforate the Wolfcamp in this well as follows:

- Perforate 9540'-9590' test for water. If water squeeze
- and Perforate 9480'-9500' test for water. If water squeeze
- and Perforate 9350'-9460' test for water. If water squeeze
- and Perforate 9230'-9320' combine with previous formations that were water free.

Offset operators to this lease with their addresses are as follows:

Atlantic Refining Company	Atlantic Building, Dallas, Texas
Shell Oil Company	Petroleum Building, Midland, Texas
Gulf Oil Corporation	Gulf Building, Pittsburgh 30, Pennsylvania
Ohio Oil Company	Donnell Building, 539 S. Main St., Findlay, Ohio

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4. Denton Well No. 13, located in the NW/4 NW/4, Section 11-153-37E, Lea County, New Mexico. This well was completed on October 19, 1952, in the Devonian pay at a plugged back total depth of 12,745 feet. 12,736 feet of 5-1/2" casing was set and perforated opposite the Devonian formation from 12,700 feet to 12,730 feet; and from 12,580 feet to 12,670 feet.

It is proposed to perforate the Wolfcamp in this well as follows:

- Perforate 9530'-9580' test for water. If water squeeze
- and Perforate 9460'-9500' test for water. If water squeeze
- and Perforate 9290'-9430' test for water. If water squeeze
- and Perforate 9150'-9260' combine with previous formations that were water free.

Offset operators to this lease with their addresses are as follows:

Atlantic Refining Company	Atlantic Building, Dallas, Texas
Shell Oil Company	Petroleum Building, Midland, Texas
Gulf Oil Corporation	Gulf Building, Pittsburgh 30, Pennsylvania
Ohio Oil Company	Donnell Building, 539 S. Main St., Findlay, Ohio

Baker & Otis equipment will be used in these completions, together with some additional equipment subcontracted from Garrett Oil Tools, Inc., for gas lift installations, if necessary. Baker Oil Tools representatives will present outaway models of the equipment to be used, together with diagrammatic sketches of proposed installations, and will demonstrate and explain this equipment and the installations to the Commission.

Enclosed attaching appropriate plats showing lease and well locations.

Very truly yours,

W. H. POTTER

Encls. Plats 2  
Extra Copy This letter

cc: Messrs: Harry D. Turner  
L. E. Fitzjerald