

Midland, Texas
October 23, 1952

File: 6-1
Re: Application to Dually Complete,
Humble New Mexico State V-2,
Drinkard Field, Lea County,
New Mexico

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

Gentlemen:

By means of this application, Humble Oil & Refining Company wishes to state the following:

- (a) Humble Oil & Refining Company New Mexico State V-2, located in the SE/4 of SW/4 of Section 10, T21S, R37E, Lea County, was completed February 16, 1949, at a total depth of 6751 feet. Five and one-half inch oil string was set at 6655 feet.
- (b) Appended Exhibit A shows the location of the subject well, other wells on the same lease, and all the offset wells to the Humble New Mexico State "V" lease.
- (c) The subject well was completed as an oil well producing in open hole section from 6655 to 6751 feet and also through seven sets of perforations in the casing from 6536 to 6653 feet from the Drinkard formation. The well was worked over in April and May 1949 in an unsuccessful effort to obtain oil production from 5115 to 5270 feet in the Glorieta formation and from 3780 to 3810 feet in the Grayburg formation. Abandonment operations were completed May 15, 1949. A schematic diagram of the original completion and present physical status of the well is shown in Exhibit B.
- (d) The applicant proposes to dually complete the well to produce gas and/or oil from the Drinkard (Tubb zone) formation through the tubing and gas from the upper Drinkard (Blinebry zone) formation through the tubing-casing annulus in the following manner:
 - (1) Remove successively the cement plugs; reconnect, individually, the 7-5/8- and 5-1/2-inch casing strings; and test each in the prescribed manner. Remove successively the cement and bridge plugs placed opposite the Penrose-Skelly and Paddock pay zones, respectively, from 3700 to 3900 feet and 4966 to 5280 feet. Test perforated intervals in the prescribed manner and perform necessary remedial work if required.
 - (2) Drill out bottom cement to approximately 6360 feet.

- (3) Perforate the 5-1/2-inch casing from approximately 6100 to 6350 feet opposite the Drinkard (Tubb) formation and 5550 to 5660 feet opposite the upper Drinkard (Blinebry) formation.
- (4) Set a production type packer immediately below the Blinebry perforation interval at 5670 feet to separate the gas and gas-oil pays.

The manner and method of the dual completion is shown in the schematic diagram as Exhibit C.

- (e) Granting of this application for permission to produce the well as a dual completion with gas and oil from the Drinkard (Tubb) formation and gas from the upper Drinkard (Blinebry) formation is in the interest of conservation and protection of correlative rights.
- (f) The applicant will comply with all rules and regulations of the New Mexico Oil Conservation Commission to maintain separation of production from the two pay zones.
- (g) The manner and method of the proposed dual completion is mechanically feasible and practical.

Therefore, Humble Oil and Refining Company requests that the New Mexico Oil Conservation Commission set a certain day upon which this application may be heard and after said hearing to grant permission in order that the applicant may dually complete the subject well as proposed in their application.

Respectfully Submitted,

HUMBLE OIL & REFINING COMPANY


J. W. HOUSE
Division Superintendent

JEG/hrs

- Encl. Exhibit A - Plot showing all wells on Humble New Mexico State V lease and offset leases.
- Exhibit B - Schematic Diagram of Current Completions, Humble New Mexico State V-2.
- Exhibit C - Schematic Diagram of Proposed Dual Completion, Humble New Mexico State V-2.
- Exhibit D - Radioactive Log of Humble New Mexico State V-2.