

CASE 455

HUMBLE NEW MEXICO STATE E-1, EUNICE MONUMENT POOL, LEA COUNTY, N. M.

Case 455 is concerned with the application dated November 13, 1952 of Humble Oil & Refining Company to dually complete their New Mexico State E-1, located in the Eunice Monument Pool, Lea County, New Mexico.

This well is located in the NW/4 of SW/4, Section 21, T-19-S, R-37-E. Its location with reference to other wells on the same lease and to wells of off-set operators is shown on the plat, Exhibit A.

It was completed December 21, 1936 at a total depth of 3985 feet with 5 $\frac{1}{2}$ -inch O.D. production string of casing set at 3740 feet. It is and has been produced from open hole below the casing seat from the Grayburg formation. Exhibit B is a schematic diagram of current completion status of this well.

It is proposed to dually complete this well in such a way as to continue to produce oil from the Grayburg formation through tubing and to produce gas from the Queen formation through the tubing casing annulus. To accomplish this purpose, the 5 $\frac{1}{2}$ -inch casing will be perforated within the approximate interval from 3550 to 3700 feet. A production type packer will be set at approximately 3720 feet and between the Queen and Grayburg formations. A schematic diagram of the proposed dual completion is shown in Exhibit C.

We offer Exhibits A, B, and C for identification as Exhibits in this case.

It is my opinion that the proposed dual completion is mechanically feasible and practical with conventional equipment designed for this purpose.

It is my opinion that the granting of the application for dual completion with oil from the Grayburg and gas from the Queen is in the interest of conservation and protection of correlative rights.

The applicant is acquainted with and will comply with all rules and regulations of the New Mexico Conservation Commission relative to maintaining separation of production from the two pay horizons.

A market arrangement has been made to sell this gas.