

Carlson Federal "A" No. 2
Information for Downhole Commingling

- a. Operator: ARCO Oil and Gas Company
P. O. Box 1610
Midland, TX 79702
- b. Lease, Well Location and Pools:
Carlson Federal "A" No. 2
1980' FSL & 1650' FEL, Sec. 23, T-25S, R-37E
Lea County, New Mexico
Justis Blinebry and Justis Tubb/Drinkard Pools
- c. Acreage Dedication (40 acres) Form C-128 is attached.
Offset operators are shown with plat under item j.
- d. 24-hour Productivity Test - Forms C-116 attached.
- e. Decline Curve - A decline curve for the Justis Blinebry oil production is attached. The Carlson Federal "A" #2 was completed in August, 1961, as a dual Blinebry and Tubb/Drinkard oil producer. In April, 1970, the Tubb/Drinkard was P&A'd. In 1988, the Tubb/Drinkard perfs were re-opened and stimulated. A resume of the well's history is attached.
- f. Bottom Hole Pressures
Blinebry - 358 psig at 5245' (-2158' SS)
Tubb - 873 psig at 5873' (-2785' SS)
The Blinebry bottom hole pressure was calculated with a fluid level survey that was conducted after the well had been shut-in for 48 hours. The Tubb/Drinkard pressure was measured with a pressure bomb after the well had been shut-in for 48 hours. The static pressure data for the Tubb/Drinkard is attached. ARCO intends to keep the well pumped down to eliminate the effects of cross flow between the formations.
- g. Fluid Compatibility - Two Martin Water Laboratories analyses are attached. No fluid compatibility problems are expected. Authorization to surface commingle the Blinebry and the Tubb/Drinkard on the Carlson Federal A Lease was received from Mr. A. L. Porter, Jr. (Administrative Order PC-34) on July 16, 1961 when the lease was first developed. No problems were experienced while the two zones were being produced before the Tubb/Drinkard was P&A'd in 1970 in the Carlson Federal "A" No. 2.

ARCO also operates the Wimberly WN lease in the north half of Section 23. Authorization to surface commingle Blinebry and Tubb/Drinkard production (Administrative Order PC-263) was granted by Mr. A. L. Porter, Jr., on May 24, 1965. More recently, Mr. William J. LeMay authorized the downhole commingling of the Blinebry and Tubb/Drinkard in the Wimberly WN #7, two locations north