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October 2, 1970

Mr. A. L. Porter, Jr., Secretary-Director
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

REFERENCE: Application for Approval of Multiple Completion,
South Carlsbad Field, Eddy County.

Dear Sir:

Morris R. Antweil respectfully requests approval of a multiple completion in the South Carlsbad Field, Eddy County, to permit the completion of our No. 1 Allen, located in Section 31-22S-37E, as a gas-gas, Strawn-Morrow dual completion. Commission Form C-107, Application for Multiple Completion, accompanied by the required supplemental information, is enclosed.

The Commission has previously authorized a multiple completion in the South Carlsbad Field; however, that dual completion is not in the same common sources of supply as those involved in the No. 1 Allen. The Pennzoil United No. 1 Mobil-Federal in Section 12-23S-26E is completed and currently producing as an Atoka-Morrow (10,840'-10,870' and 11,450'-11,550') dual completion. The Atoka interval is located stratigraphically between the Strawn and Morrow intervals requested for multiple completion approval in the No. 1 Allen.

The gamma ray-sonic log accompanying the enclosed Form C-107 clearly shows the separate completion intervals in the Strawn and Morrow formations to be distinct reservoir developments separated by more than 1000 feet of nonporous formation. The Strawn reservoir development is in a limestone formation; while the Morrow is a sandstone. The enclosed summary of drill stem test information obtained while drilling the No. 1 Allen indicates the two reservoirs to have different reservoir pressures. The reservoir pressure in the Strawn is indicated to be 5486 psi; while the Morrow pressure is indicated to be 4796 psi. In addition, the drill stem test information indicates the Strawn gas production to be accompanied by condensate; while the Morrow gas is dry.