SUPPLEMENTAL DRILLING DATA FRED POOL OPERATING COMPANY #1 Arco Federal 330' FNL & 2310' FEL Section 21, T 18 S, R 29 E Eddy County, New Mexico

In conjunction with Form 9-331 C, Application for Permit to Drill the subject well, Fred Pool Operating Company submits the following ten items of pertinent information in accordance with USGS requirements.

- 1) The geologic surface formation is quanternary.
- 2) The estimated tops of geologic markers are as follows:

Base Salt	850 '
Yates	1012'
Seven Rivers	1380'
Queen	2008'
Penrose	2159'
Grayburg	2342'
Loco Hills	2450'
San Andres	2834'
Lovington Sand	2983'

The estimated depths at which anticipated water, oil, or gas are expected to be encountered:

Water: Approximately 265'
Oil or Gas: Approximately 1350', 1800'-50', 2300', 2450', 2500', 2720'-2830', 3030'.

4) Proposed casing program: (See Form 9-331 C) New or Size Interval Wt. Grade Joint Used 8 5/8" 0'- 350' 24# K ST&C New 5½" 0'-3200' 15.5# J ST&C Used

5) Pressure Control Equipment:

The blowout preventor will be an annular type. (A sketch is attached, Exhibit A)

6) Mud Program:

A copy of the mud program to be used is attached. (Exhibit B)

7) Auxiliary Equipment: Master valve on BOP.