

SUPPLEMENTAL DRILLING DATA
FRED POOL OPERATING COMPANY
#2 Arco Federal
2310' FNL & 990' 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 quaternary.
- 2) The estimated tops of geologic markers are as follows:

Base Salt	855'
Yates	1020'
Seven Rivers	1387'
Queen	2015'
Penrose	2163'
Grayburg	2350'
Loco Hills	2454'
San Andres	2840'
Lovington Sand	2988'

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

Water:	Approximately 270'
Oil or Gas:	Approximately 1350', 1800'-50', 2300', 2450', 2500', 2720'-2830', 3030'.

- 4) Proposed casing program: (See Form 9-331 C)

<u>Size</u>	<u>Interval</u>	<u>Wt.</u>	<u>Grade</u>	<u>Joint</u>	<u>New or Used</u>
8 5/8"	0' - 350'	24#	K	ST&C	New
5 1/2"	0' - 3150'	15.5#	J	ST&C	Used

- 5) Pressure Control Equipment:

The blowout preventor will be *two rams* ~~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)