

## July 14, 1981

## APPLICATION FOR DRILLING

Ray Westall
ARCO #1 & #2
Arco #1 Location 660 FSL 1980 FEL, Sec 1 T17S R31E
Arco #2 Location 1980 FNL 1980 FEL, Sec 1 T17S R31E
Eddy County, New Mexico

In conjunction with the form 9-331C, application for permit to drill subject wells, Ray Westall submits the following ten items of pertinent information in a accordance with USGS requirements:

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

Yates 2050 7 Rivers 2500 Queen 3050 Grayburg 3500 San Andres 3850

3. The estimated depths at which anticipated water, oil and gas formations are expected to be encountered:

Water 180 Oil and gas zones listed above in #2.

- 4. Proposed Casing Program: See for 9-331C
- 5. Pressure Control Equipment: See for 9-331C and Ehibit E
- 6. Mud Program: Mud up 100 to 150' before TD and circulate 2 hours after TD and pull out laying down and run casing.
- 7. Auxiliary Equipment: N/A
- 8. Testing, Logging and Coring Program: Logging casing Compensated Neutron and Gamma Ray, Collar Log, Cement Bond Log.
- 9. No abnormal pressures or temperatures are anticipated.
- 10. Anticipated Starting Date: As soon as possiable.