To supplement USGS Form 9-331C " Application for Permit to Drill, Deepen or Plugback", the following additional information is submitted to comply with USGS Order NTL-6. Operator: ARCO 011 and Gas Company - Division of Atlantic Richfield Company Lease & Well No: MacDonald Federal #1 Location: Unit Letter A Section 22-13S-24E Chaves County, New Mexico Lease, New Mexico 54833 Development well Exploratory well X 1. See Well Location and Acreage Dedication Plat Form C-102. 2. See Form 9-331C for elevation above sea level of unprepared location. 3. The geologic name of the surface formation is: Paleorthids Calciorthids association 4. The type of drilling tools and associated equipment to be utilized will be: Rotary 5. The proposed drilling depth will be 5500' 6. The estimated tops of important geologic markers are: 3600' Abo Wolfcamp 4300' Fusselman 5000' 7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are: 4300' 100-300' F. Water Wolfcamp 1450' Glorieta 5000' Fusselman 5200' Pre-Cambrian 2900' Tubb 36001 Abo 8. The proposed casing program including the size, grade and weight-per-foot of each string has been indicated on Form 9-331C. All strings of casing Used . will be: New X 9. See Form 9-331C for amount of cement.

The 8-5/8" OD casing will be cemented w/approx 800 sx of Cl C cmt cont'g 2% CaCl₂. The $5\frac{1}{2}$ " OD csg will be cemented w/approx 650 sx of light cmt cont'g $\frac{1}{2}\#$ /sk flocele followed by 150 sx Cl H Neat cont'g 2% CaCl₂.