

Application
Harvey E. Yates Company
Parker Deep 5 Fed Com #1
Section 5, T18S, R31E
Eddy County, New Mexico

In conjunction with Form 3160-3, Application For Permit To Drill Or Deepen subject well, Harvey E. Yates Company submits the following ten items of pertinent information in accordance with Onshore Oil & Gas Order No. 10.

1. **Geologic Name of Surface Formation:**
Quaternary alluvium and bolson deposits
2. **Estimated Tops of Significant Geologic Markers:**
Rustler 460', Yates 1,880', Seven Rivers 2,250', Bowers 2,700', Queen 2,945', Penrose 3,150', Grayburg 3,415', Loco Hills Sand 3,575', San Andres 3,965', Delaware 4,390', Bone Springs Ls 5,365', BSPG 1st Sand 7,140', BSPG "B" Zone 7,530', BSPG 2nd Sand 7,740', BSPG "C" Zone 8,390', BSPG 3rd Sand 8,700', Wolfcamp 8,900', Penn. Shale 9,900', Strawn 10,750', Atoka 11,010', Morrow Clastics 11,480', L. Morrow Mkr. 11,660'.
3. **Estimated Depths at which Water, Oil, or Gas Formations are expected:**
Oil: Bone Spring 1st sand @ 7,140
Gas: Bone Spring 1st sand @ 7,140
4. **Proposed Casing Program:**
See Form 3160-3
5. **Pressure Control Equipment:**
BOP & Annular. See Exhibit C.
6. **Drilling Fluid Program:**
See Form 3160-3
7. **Auxiliary Equipment:**
H2S Compliance package
8. **Testing, Logging, & Coring Program:**
Possible rotary sidewall cores will be taken, and one DST is planned for the Wolfcamp, Strawn, or Atoka. The planned logs are Schlumberger Platform Express w/HALS.
9. **Abnormal Conditions, Pressures, Temperature, or Potential Hazards:**
No abnormal conditions are anticipated in this well bore.
BHST 170 deg F
BHP 4300 psi
10. **Anticipated Starting Date & Duration of Operation:**
Spud Date: Approximately April 1, 2000. Duration of this project will be approximately 50 days from start of Construction of drilling pad until finish of completion operations