

Application
Harvey E. Yates Company
Pearsall 6 Fed #5
Section 6, T18S, R32E
Lea 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	990	Loco Hills	4,230	Top B Sand	8,365
Yates	2,515	San Andres	4,650	Top C Sand	8,590
Seven Rivers	2,890	Deleware	4,810	Base C Sand	8,750
Bowers	3,340	BSPG	5,785	C-Zone	8,780
Queen	3,595	BSPG 1st Sand	7,645	3rd Sand	8,955
Penrose	3,845	B-Zone	7,860	Wolfcamp	9,315
Grayburg	4,120	BSPG 2nd Sand	8,300		

- 3. Estimated Depths at which Water, Oil, or Gas Formations are expected:**

Oil: 4,650

Gas: 4,650

- #### 4. Proposed Casing Program:

See Form 3160-3

- ### 5. Pressure Control Equipment:

This well will be rated 3M

Request for variance on BOP for drilling 12 1/4" intermediate hole.

Due to no pressured formations from base of surface to TD of 12 1/4" hole @ 3,100', we propose to:

1. Use a 3,000 psi BOP with one set of pipe rams and one set of blind rams.

2. Test the 13 3/8" casing and BOP stack to 1,000 psi with rig pump prior to drilling 13 3/8" casing shoe.

3. Change pipe rams to 8 5/8" rams prior to running 8 5/8" casing.

- 6. Drilling Fluid Program:**

See Form 3160-3

- ### 7. Auxiliary Equipment:

H2S Compliance Package.

- #### 8. Testing, Logging, and Coring Program:

One possible DST is planned for the Bobespring B or C Zone

The planned logs are Western Atlas CNL-ZDEN, DACS, and DLL-MLL

9. **Abnormal Conditions, Pressures, Temperature, or Potential Hazards:**

No abnormal conditions are anticipated in this wellbore

BHST 160° F

BHP 2,000 psi

- 10. Anticipated Starting Date & Duration of Operation:**

Spud Date: Approximately February 1, 2002. Duration of this project will be approximately 40 days from start of construction of drilling pad until finish of completion operations.

