

Wattam Federal #4
Petroleum Development Corporation
2060' FNL and 598' FEL of
Section 6, T8S, R31E
Chaves County, New Mexico, NM-15016

1. The geologic name of the surface formations: Recent.
2. The estimated tops of important geologic markers: from logged wellbore,

Yates	1847'
Seven Rivers	1910'
Queen	2294'
San Andres	2932'
3. The estimated depths at which anticipated water, oil, gas, or other mineral bearing formations are expected to occur:

Water	50'
Oil	3300'
4. Proposed Casing Program: No new casing will be used in this horizontal lateral, which will be completed by open hole technique.
5. Minimum specifications for pressure control equipment.
 - a. Wellhead Equipment- Threaded type 2000 psi WP for 8-5/8" x 5-1/2" csg program and 2-7/8" tubing.
 - b. Blowout Preventers- Refer to attached drawing and list of equipment titled "Exhibit D" 2000# WP blow out preventer.
 - c. BOP Control Unit - Unit will be manually operated.
 - d. BOP Testing - Request variance to Onshore Order #2.
 - e. Testing - BOP/CSG using mud pumps to 1500 psi when BOP is installed. This pressure exceeds virgin formation BHP which was 1200 psi. If requested to test to 2000 psi cost would be an economical hardship.
6. Type and Anticipated Characteristice of Drilling Fluid: Circulating Medium

<u>Depth Interval</u> <u>(Feet)</u>	<u>Mud</u> <u>Type</u>	<u>Weight</u> <u>(ppg)</u>	<u>Funnel Visc.</u> <u>(Sec/Qt)</u>	<u>WL</u> <u>(cc)</u>	<u>pH</u>
Freshwater Gel Mud Sys. to Mill Casing		8.7-10.2	60	---	10.5
3722' - 3765'	Polymer Mud System	9.5-10.2	30-33	10	10.5

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