

(Exploratory Well)

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Hilliard Oil & Gas, Inc. submits the following items of pertinent information in accordance with MMS requirements:

1. The geologic surface formation is Permian with quarternary alluvium and other surficial deposits.

2. The estimated tops of geologic markers are as follows:

Salt - Top	890'	Abo	6793'	Strawn	10,160'
Salt - Bottom	1620'	Wolfcamp	8060'	Atoka	10,700'
Yates	1790'	WolfcampXX	8320'	Morrow	10,900'
7 - Rivers	2024'	Lower W/camp	8840'	Chester	11,200'
Queen	2575'	Bough "B"	9013'	T. D.	11,300'
San Andres	3295'	Bough "C"	9087'		
Glorieta	4850'	Cisco	9268'		
Tubb	6080'	Canyon	9630'		

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

Water: Random fresh water sands from surface to 300'+.

**Gas:** Morrow at approximately 10,900-10,9500.

Oil: San Andres at 3250', BO "C" at 9120', Cisco at 9300'.

4. Proposed Casing Program: See Form 9-331c.

5. Pressure Control Equipment: See Form 9-331C and Exhibit "E".

6. Mud Program: See Form 9-331C.

7. Auxiliary Equipment: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.

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Logging: Gamma Ray	Surface to total depth
Compensated Nuet. Dens.	3300' to total depth
DLL/short guard & GR	3300' to total depth

**Drill Stem Tests:** All significant shows of oil and/or gas, probably in the Queen sand, Premier Sand, BO "C" and Cisco.

**Coring: None planned.**

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, the proposed mud program will be modified to increase the mud weight.

10. Anticipated starting date: November 20, 1982.  
Anticipated completion of drilling operations: Approximately 35 days.

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O.C.D.  
HOBBS OFFICE