

Additional Information For
Application for Permit to Drill
Getty Oil Company
DD Federal 24 Well No. 1

1. The geological name of the surface formation is OGALLALA.
2. The estimated tops of important geological markers are as follows:

<u>Formation</u>	<u>Depth from Surface</u>	<u>Depth Subsea (3571.4' G.L.)</u>
San Andres	450'	+3127.4
Abo	1920'	+1657.4
Abo Reef	4030'	-452.6'
Wolfcamp	4225'	-647.6'
Cisco	6750'	-3172.6
Canyon	7525'	-3947.6'

3. The estimated depths at which anticipated water and oil could be encountered are:

0-375' fresh water
 375-1200' fresh artesian water (possible)
 1920' possible oil - Yeso
 5420' possible oil - Wolfcamp
 7525' possible oil & gas - Canyon

4. Proposed casing program:

<u>Size</u>	<u>Grade</u>	<u>Thread</u>	<u>WT</u>	<u>Top</u>	<u>Bottom</u>	<u>Length</u>
20"	H-40	8rd ST&C	94	Surface	40'	40'
13 3/8"	H-40	8rd ST&C	48	Surface	375'	375'
9 5/8"	H-40	8rd ST&C	32.2	Surface	1200'	1200'
7"	K-55	8rd LT&C	20	Surface	4000'	4000'
7"	K-55	8rd LT&C	23	4000'	5800'	1800'
7"	N-80	8rd LT&C	23	5800'	5800'	1000'
7"	SS-95	8rd LT&C	23	5800'	7950'	1150'

5. The minimum specifications for pressure control equipment to be used see figure I. The BOP will be tested to 3000 psi.
6. The drilling fluid from surface to approximately 7500' with fresh water. From 7500' to 7950' a polymer base mud will be used to condition the hole for logging and running of casing.
7. The auxiliary equipment to be used is as follows:
 - a. Kelly cocks
 - b. Monitoring equipment on the mud system
 - c. Sub on the floor with full opening valve to be stubbed into drill pipe when kelly is not in the string.

8. No cores or drill stem tests are anticipated.

Electric logging 1200-7950 CNL-FDC, Sonic-GR, Dual laterolog.