ADDITIONAL INFORMATION FOR "APPLICATION FOR PERMIT TO DRILL"

Getty Oil Company Getty Federal "15" Well No. 1

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

FORMATION	DEPTH FROM SURF.	DEPTH SUBSEA
		(3549.7 GL)
Delaware Mountain Group	5,100	- 1,550.3
Bone Springs	8,500	- 4,950.3
Wolfcamp	11,500	- 7,950.3
Atoka	13,350	- 9,800.3
Morrow Clastics	14,200	-10,650.3

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

DEPTH

0 - 5,100'	Possible fresh water
5,100 - 8,500'	(Delaware Mountain Group) Possible Oil
8,500 - 11,500'	(Bone Springs) Possible Oil
13,350 - 14,200'	(Atoka) Possible Gas
14,200 - 14,900'	(Morrow) Possible Gas

- 4. The proposed casing program see attached "Application for Permit to Drill".
- 5. The minimum specifications for pressure control equipment to be used see Figure I. The BOP will be tested to 10,000 psi.
- 6. The drilling fluid from surface to 11,200' will consist of brine with sufficient gel to condition hole for logging and running casing. The mud will be a 10-12 ppg low solids low fluid loss oil base mud with additives from 11,200' to TD (14,900) to help prevent damage to the Morrow.
- 7. The auxilliary equipment to be used is as follows:
 - a. Kelly cocks
 - b. Monitoring equipment on the mud system
 - c. Sub on the floor with a full opening valve to be stabbed into drill pipe when kelly is not in the string.

8. There may be (2) cores taken in the Morrow interval between 14,200'-14,900'; and (4) drill stem tests may be conducted as needed for shows in the Delaware, Bone Springs, Atoka, or Morrow.