

**JUGARILLA "K" NO. 20**  
**Supplement to Form 9-5316**

1. The Geologic name of the surface formation is, "Wasatch".
2. The estimated tops of important Geologic markers are:
  - A. Base of Ojo Alamo 3624 ft.
  - B. Fruitland 3214 ft.
  - C. Pictured Cliffs 3364 ft.
3. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are:
  - A. Base of Ojo Alamo 3624 ft. - Water
  - B. Fruitland 3214 ft. - Water
  - C. Pictured Cliffs 3364 ft. - Gas
4. The casing program is shown on Form 9-5316 and all casing is new.
5. The lessee's pressure control equipment schematics are attached along with minimum specifications, testing procedures and frequencies.
6. The type, estimated volumes and characteristics of the circulating mediums are as follows:
  - A. From 0 feet to 200 feet-Natural Mud
  - B. From 200 feet to 3525 feet - Pennsylvanian dispersed mud containing 167 sks of gal, 67 sks of permaloid & 10 sks of C.M.C.
7. The auxiliary equipment to be used will be floats at the bit and a sub on the floor with a full opening valve to be stabbed into the drill pipe when the Kelly is not in the string.
8. This well is in an area which is almost completely developed, therefore we will not have a testing and coring program. The logging program will be as follows:
  - A. E. S. Induction
  - B. Gamma Ray Density
  - C. Gamma Ray Correlation
  - D. Cement Bond or Temperature log
9. There are no abnormal pressures, temperatures, or hydrogen sulfide problems expected in this highly developed area.
10. The anticipated starting date of this well is January 15, 1976.

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY

REPORT OF THE COMMITTEE ON THE PROGRESS OF THE WORK

FOR THE YEAR 1954-1955

CHICAGO, ILLINOIS  
JANUARY 1956

The following is a summary of the work done by the members of the Department of Chemistry during the year 1954-1955.

1. The work of the Department of Chemistry during the year 1954-1955 was carried out in accordance with the plan of work approved by the Department at its meeting on October 1, 1954.

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