A. G. HILL -
HAROLD FIELDS FEDERAL #1
SF 079177

10 3/4" casing will be set at approximately 80' and cemented to surface. Cement will be allowed to set 24 hours, and the casing will be tested by applying 500# PSI pump pressure for 30 minutes prior to drilling the plug. The plug will not be drilled unless the casing holds the above pressure for fully 30 minutes.

After drilling the plug, rotary drilling operations will be carried on to the top of the Picture Cliff's Sand zone, which we now believe will be encountered at a depth of approximately 2400'. We propose to drill into the sand only far enough to ascertain the nature and the contents of the sand. If a reasonably good gas show is obtained, 5 1/2" casing will be cemented on top of the sand with approximately 200 sacks cement.

After 5 1/2" casing is set and cemented the rotary tools will be moved off and cable tools will be moved onto the well for drilling in purposes. The 5 1/2" casing will be tested in the following manner:

> The cement will be pumped down with water to the top of the float collar and will be allowed to set under pressure for 12 hours. The cement will be allowed to set 72 hours before drilling in operations are commenced. Prior to drilling plug we will fill the hole completely full of water and allow it to set sufficiently long to determine whether the water level will or will not drop in the casing. If the water level remains constant, the casing will be swabbed dry and allowed to set for at least one hour, and then a bailing test will be made to determine whether any fluid has entered the pipe. If the casing remains dry, the cement plug will be drilled.

We plan to drill through the entire Picture Cliff Sand zone with cable tools and we estimate the sand thickness in this area will be approximately 50'.

After drilling the sand we plan to shoot the possible producing section with nitro-glycerin in the amount of approximately 2 quarts per foot. The well will be cleaned out after the shot, and 2" tubing inserted in the well.