Geologist: Earl E. Gaertner

Ten-foot drilling time was recorded from 1000' to the total depth of 10,390'. Ten-foot samples were caught over the same interval, examined at the well-site from 6100' to total depth, and then sent to the Midland Sample Cut for processing.

A sample log was prepared with the drilling time, deviations, daily drilling progress, mud properties, etc., posted on it and the lithology was plotted from 6100' to total depth.

BONE SPRING

Sample examination began in the Bone Spring limestone facies just above the 3rd Bone Spring sandstone. The sand top was picked at 6270' by drilling time and electric logs and the section contained gray-brown siltstones and light tan, very fine sandstone and loose sand. No odor, fluorescence or oil stain was observed in this section. Dark gray to black shale and interbedded tan to brown, very fine crystalline limestones were logged from 6400' down to 7020'.

WOLFCAMP

A well developed buff, light tan to tan, very fine crystalline, fossiliferous, scattered calcite included limestone was logged at 7020', marking the probable top of the first Wolfcamp carbonate. This facies extended down to 7180' where more black shale and brown, translucent chert was encountered, which then carried down to 7270'. From 7270' to 7700', mostly tan, brown, and dark brown, fine crystalline, fossiliferous limestones were logged; however, shale content ranged from ten up to ninety percent through much of the interval. From 7700' to 8000', the shale content was dominate with minor amounts of interbedded, thin limestones being logged. No significant drilling breaks, gas shows, odor, or visible oil stain were noted in this section.

CANYON

Light tan, tan, and light brown, fine crystalline, fossiliferous limestone was logged from 8000' to 8420'. A good drilling break from 8094' to 8110' was circulated out at 8127'. Samples contained ten percent vuggy, porous limestone, and maximum gas readings were C_1 950, C_2 400, C_3 200, and C_4 175 units. A decision was made to drill ahead and