

Operator: Miami Oil Producers, Inc.  
 Well: Navajo 3532 E-1  
 Location: 990' FWL x 1980' FWL 13-32N-17W, NMIM  
 Elevation: 6844' Kb. - 6837' G.L.  
 Total Depth: 3616' Driller; 3604' Schlumberger  
 Commenced: September 15, 1964  
 Completed: October 6, 1964  
 Production: Plugged and abandoned  
 Casing: 8-5/8" - 168' - 70 sacks  
 Cores: None  
 Drill Stem Tests: None  
 Surveys: Schlumberger  
           Induction-Electrical log - 168' - 3603'  
           Detail - 2490' - 3603'  
           Gamma Ray-Density w/cal. - 2490' - 3603'  
           Deviation  
           1 1/4° @ 1975'; 1° @ 2495'; 1 1/2° @ 3144';  
           2 1/2° @ 3438'  
 Contractor: Miami Oil Producers, Inc.  
               Rig #1  
               Earl Allen - Tool Pusher  
 Distribution of Data: Logs have been sent to Humble, U.S.G.S.,  
                           State of New Mexico. Samples were sent  
                           to Four Corners Sample Cut in Farmington,  
                           New Mexico. Notice of Intention to Drill  
                           and Designation of Operator filed with  
                           U.S.G.S.

#### Daily Driller's Log

September 24, 1964: Building road and location  
 September 25, 1964: Moving in and rigging up. Spudded 7:30P.M.  
 September 26, 1964: Drilled 11" hole to 187'. Ran 5 joints of  
                           8-5/8" J-55 (24#) casing set at 168' with  
                           70 sacks 2% gel, 2% Cacl. Plug down at  
                           4:00 A.M. 9-27-64.

## Bit Record

## E-Log Formation Tops

## Discussion

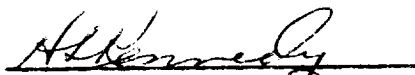
2.

the interval 2770' to 2825'. No clean sand was present in this interval and the density log showed no porosity. No show was apparent in the samples from the Lower Gallup interval.

The Dakota sand had three well developed benches in this well. The first bench from 3360' to 3410' had 40' of sand with a total of 12' of porosity ranging from 8 to 13%. No fluorescence, stain, cut or odor was present in the samples and log analysis indicated 80-85% water saturation. The second bench from 3463' to 3490' had 27' of sand with 21' of porosity from 14-17%. No show was present in this interval in the samples and logs indicated 50-60% water saturation. The third bench from 3540' to 3590' had 50' of sand with 38' of porosity from 18-20%. No show was present and water saturation averaged 55%.

Structural closure is considered necessary for Dakota production. Structural comparison with surrounding wells indicates this well to be structurally low and there is no indication of local closure.

Due to lack of porous sand in the Gallup and the lack of shows in the Dakota combined with the low structural position and high water saturations, it was recommended that the Navajo 3538 E-1 be plugged and abandoned. No additional drilling in this area is recommended.

  
Howard L. Kennedy  
Geologist  
November 23, 1964