

4. A schematic diagram showing the casing program which was employed on this well, together with the approximate location of the various formation tops in this well. The diagram also shows the present disposal zone and the proposed additional disposal zone.
5. A copy of a letter from the State Engineer's Office dated January 28, 1963 advising that that office had no objection to the disposal of salt water in the Entrada-Chinle Zone in USG, Section 19, Well No. 17.
6. A copy of a water analysis obtained on a drill stem test from the Entrada Zone on Pan American's Navajo Tribal No. 1, a dry hole located 790' from the north line and 1090' from the west line of Section 12, Township 29N, Range 17W, which shows the Entrada water to contain in excess of 9000 parts per million total solids. Also, a copy of typical Dakota water collected from Well No. 15, Section 19, Township 29N, Range 16W, showing total solids of 2850 parts per million total solids.

With regard to the use of the Entrada Zone from 2045' to 2105' for additional disposal capacity, the following points are submitted:

1. The proposed disposal interval is not known to be productive of oil, gas or fresh water anywhere in the vicinity of the Hogback Pool.
2. The casing program used on this well adequately protects all surrounding formations from any possible contamination by the injected water.
3. NMOCC Order R-2438 dated February 27, 1963 granted permission to dispose of produced Pennsylvanian salt water into the interval from 2157' to 3100' in the existing disposal well. By letter dated May 22, 1970, a copy of which is attached hereto, Mr. George M. Hatch, General Counsel for the Commission, approved disposal of water produced from the Dakota formation into the authorized disposal zone of Well No. 17.