

Prior to developing the waterflow, it is estimated the well had remaining reserves of 161 MMCF in the Penrose. This is an area of low reservoir pressure, and apparently the water damaged the formation to the extent that it is no longer capable of producing.

Subsequent to repairing the well in September, 1976, the water has again broken through to the surface. The well is now shut in with about 375 psi casing pressure at the wellhead.

The Penrose Sand is the only productive horizon in the Phillips Hooper No. 1. The well was drilled into the Grayburg formation, which was tested during the initial completion and found dry. The Upper Queen, Seven Rivers and Yates formations, all above the Penrose, are not productive in this area, which is also indicated by the radioactivity log of the well.

Recommendation

It is recommended that the Phillips Hooper No. 1 be plugged and abandoned, and the drilling of a replacement well at the opposite end of this long 160-acre tract be evaluated.