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72-hour Shut-in pressure: 330 psia (surface)
360 psia (bottomhole-calculated 4-5-76)

Present Status: Shut in. (since January 1, 1978)

Work Done:

June 18, 1972. Treated well with hot fresh water to clear plugged tubing. Swabbed; well began to flow, was blown down and switched to flow line.

12-29-77 - 12-31-77 Swabbed well, unable to swab down.

Discussion:

The well presently known as State KN-12 No. 1 was originally completed in 1953 as Phillips State No. 1. On June 1, 1961, Continental Oil Company purchased the interest of John M. Kelly et al in Phillips State No. 1 which was then redesignated as State KN-12 No. 1.

The production from this well began to decline in September of 1977. The well died on December 23, 1977 when the wellbore loaded up with water. Production in the first 22 days of December was 1399 MCF. The invading water was tested and found to be fresher than water from the surrounding producing formations or the Gulf waterflood to the west. This water is probably coming through a casing leak from a fresh water zone above the salt sections at 180-200'.

The well was swabbed for two consecutive days (December 30-31, 1977), but the water level could not be lowered below 1000'. The swabbing rate was 12-14 barrels/hr. The well was shut in on January 1, 1978. The fresh water has apparently been injecting into the low pressure Penrose gas zone since that time. Fluid invasion calculations indicate that the invaded radius will be approximately 150' as of June 20, 1978. With a 150' invaded radius, 68,458 barrels of water would have to be pumped out which would take 342 days at a pumping rate of 200 barrels a day. The cost and time involved in pumping the well down and squeezing the water leak with no assurance of regaining production would be prohibitive.

Phillips Hooper No. 1, another Penrose gas zone completion, loaded up with water on September 26, 1976. The water leak was squeezed and the well was swabbed dry, but gas production could not be regained.

Because State KN-12 No. 1 is completed in the Penrose gas zone, the well would not be suitable for injection purposes. No need for the well for salt water disposal can be foreseen because the salt water disposal requirements of the unit are adequately served by the Eunice-Monument-Eumont water disposal system. State KN-12 No. 1 was initially drilled to 4170 feet in the Grayburg

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