

## **April 1996 Workover Morning Report**

was left downhole, accumulating near the wellbore. This problem could account for as much as another 300-1000 bbl of "load" recovery".

Water Drive Support:: There has been some discussion about the potential for this reservoir to have a slight amount of water influx. The data does not support significant influx based on P/Z data or the fact that prior workover fluids were encountered so quickly on the initial pumping and were not "swept" by a water front. Minimal influx is expected.

Added Morrow Perforations Crossflow: The prior operator added pay in the Morrow that was subsequently isolated with a packer. The completion information suggests this zone was not effectively opened up but a small amount of water production (5-10 BWPD) could not be ruled out. During the time this zone could have crossflowed, there could have been as much as 2000-3000 BW crossflowed into the Lower Morrow.

Added Morrow Perforations - Tubing or Packer Leak: The added Morrow perforations could have continued to dump flood into the Lower Morrow after being isolated by a packer. However, this source of load water is discounted since workover fluids were recovered so quickly and were flushed away from the well.

Overall, the Lower Morrow may require 2600-5000 of load recovery to fully evaluate returning this interval to production. The total production is currently 20-30 BWPD, of which as little as 10-25 BWPD might be coming from the Lower Morrow. Not all of the load should have to be recovered before the production improves. MTI, therefore, recommends pumping the well a minimum of 3-6 months before evaluating other alternatives. Since the well is able to produce into the line, the cost of continued testing is minimal relative to the potential buildup.