

SUPPLEMENT TO PACKER LEAKAGE TEST

TEST NO. 1

To arrive at situation #1 as shown on the diagram, the following items were used: 2, 3, 4, 4a and 3a. The packers 3 and 3a had been set and tested. Sliding side doors 4 and 4a were closed. This contained the Strawn in the tubing-casing annular space. The Morrow was allowed to flow up the LT as follows:

2013.2 psi shut in pressure, Open on .625 choke for 20 minutes to lower tubing pressure to 900#, continued to lower pressure four hours stabilizing period. Stabilize pressure 500. Dead weight test ran on pressure recorder. Flow this zone 15 hrs.

TEST NO. 2.

When situation #2 was run, an Otis "PN" plug was run and set in the "N" nipple (item 1). This blanked off the Morrow zone. The sliding door (item 4a) was opened so that the Strawn could flow up the LT as follows:

2300 psi (when sliding door item 4a) was opened. Flow 20 minutes with .75 size choke, lower tubing pressure 800 psi. Stabilize with 15 bbls. Treating water return. Six hr. flow period.

TEST NO. 3

The casing stabilized @117.2 psi during test which was Leakage test on the Delaware zone. This zone is isolated from the Strawn by packer (item 7) plug choke (item 6) and packer (item 3a). The casing zone is being produced as shown in situation #1 through the ST.