

FIGURE 3

METHOD OF RUNNING INNER AND OUTER ASSEMBLIES

NOTE IN CENTER DRAWING THAT CHECK VALVES PREVENT INTER-ZONE FLOW.

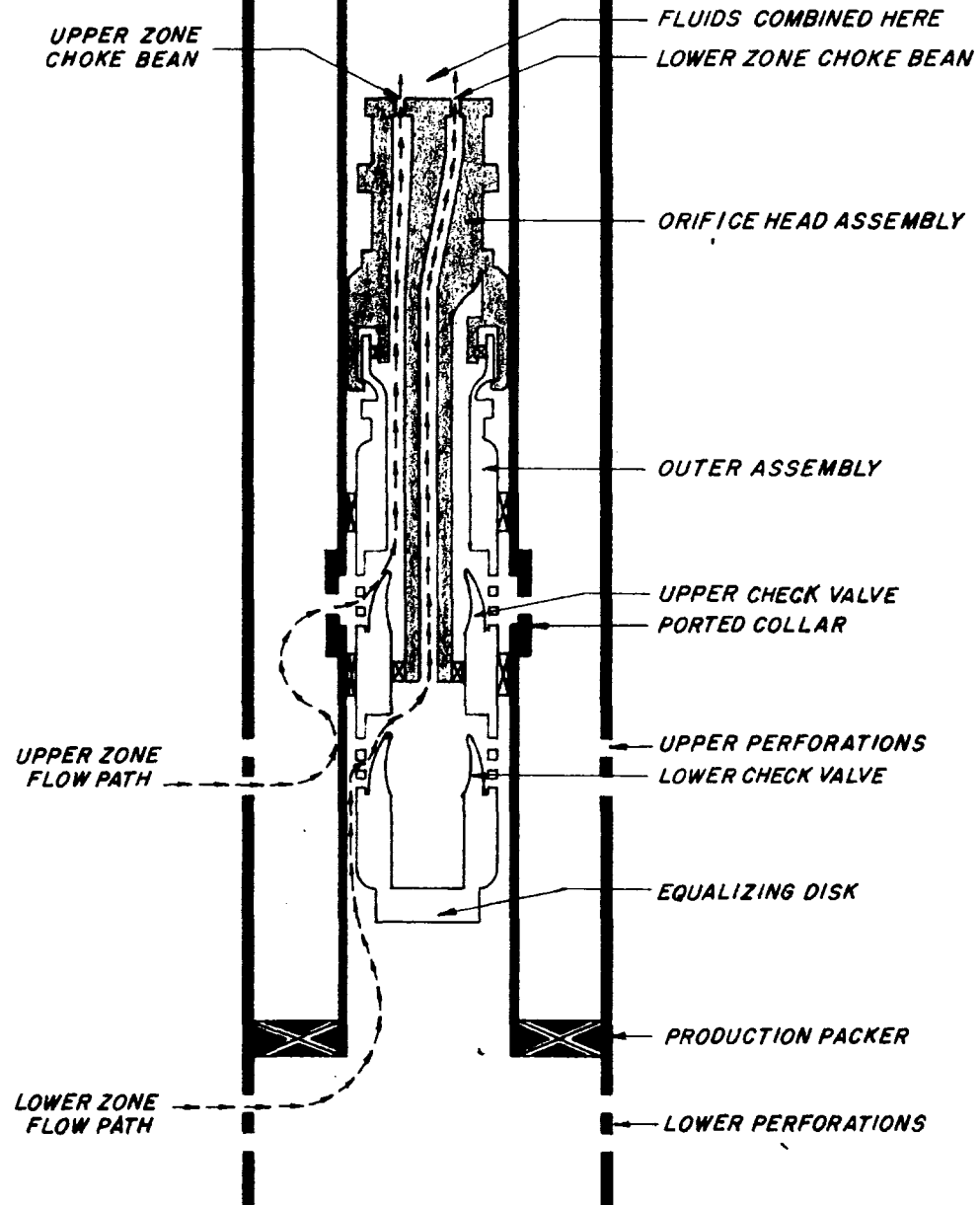


FIGURE 4



FIGURE 5
GAS FLOW THROUGH AN ORIFICE.
FLOW BECOMES CRITICAL WHEN $P_2/P_1 = .53$

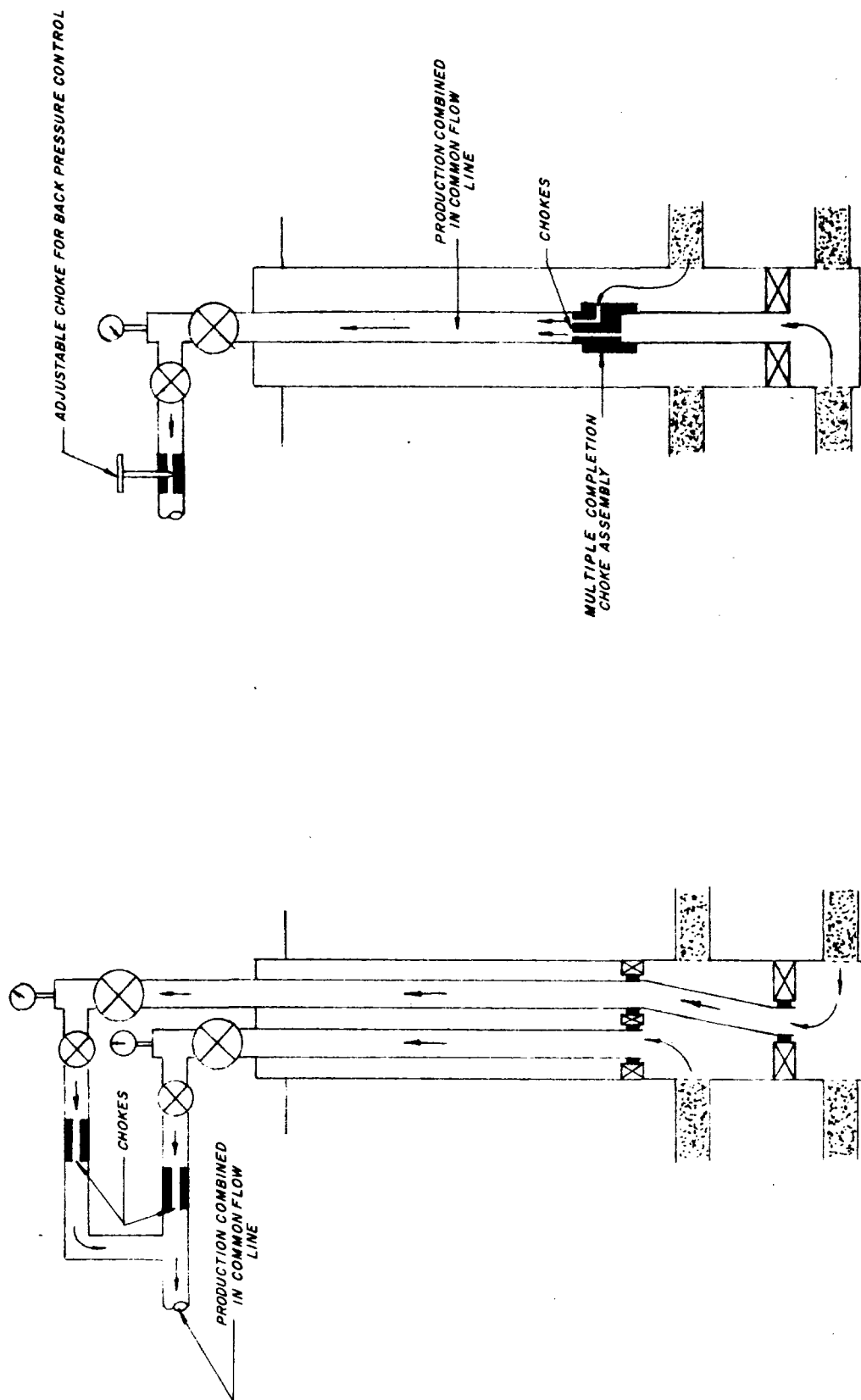


FIGURE 6
SIMILARITY BETWEEN TWIN STRING DUAL
AND
WELL EQUIPPED WITH MULTIPLE COMPLETION CHOKE ASSEMBLY

Fig. 7 Correlation of Surface and Tubing Inlet Pressures

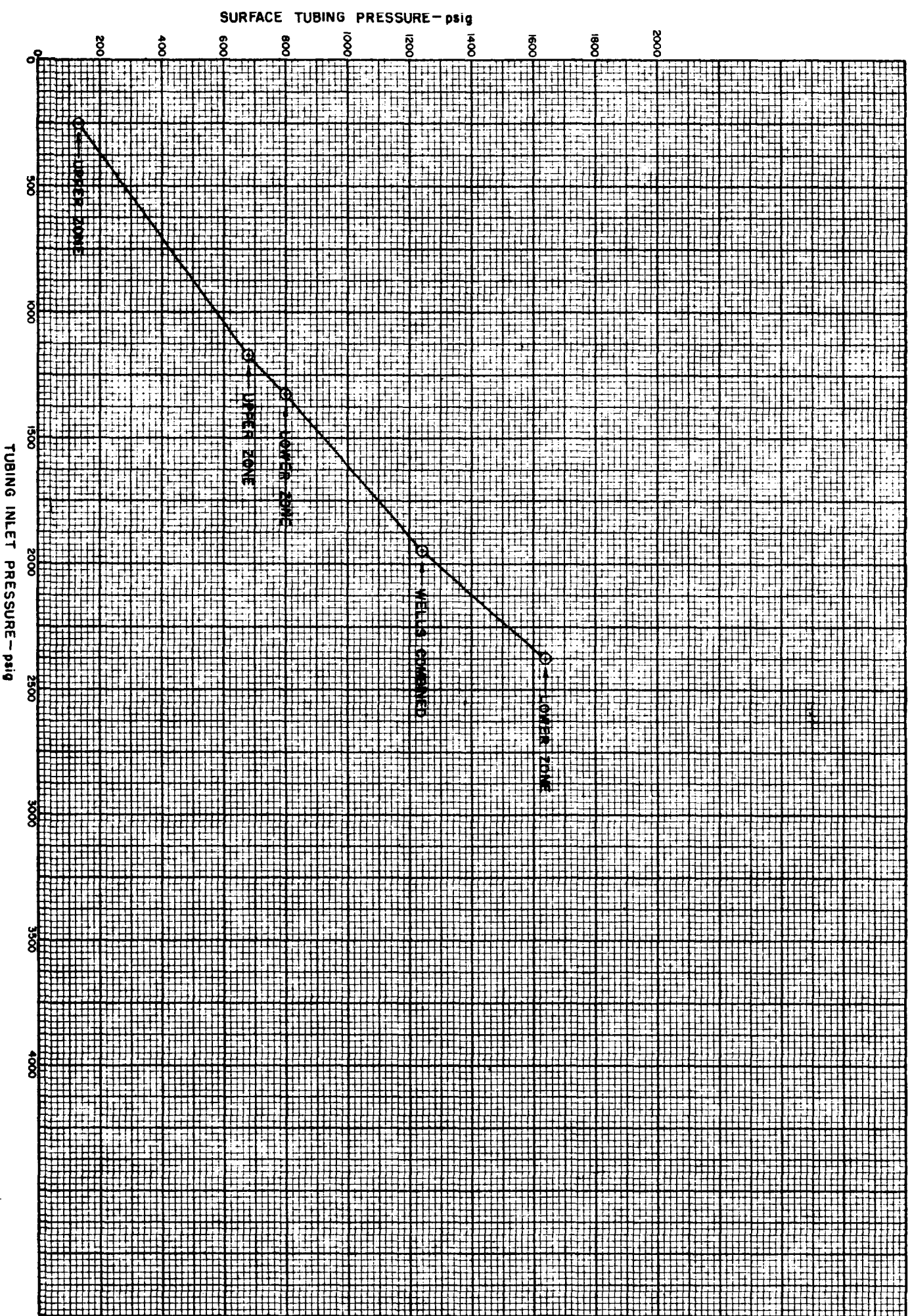


Fig. 8 Individual Test Data for Lower Zone, Well No. 3. Upper Zone Blanked Off

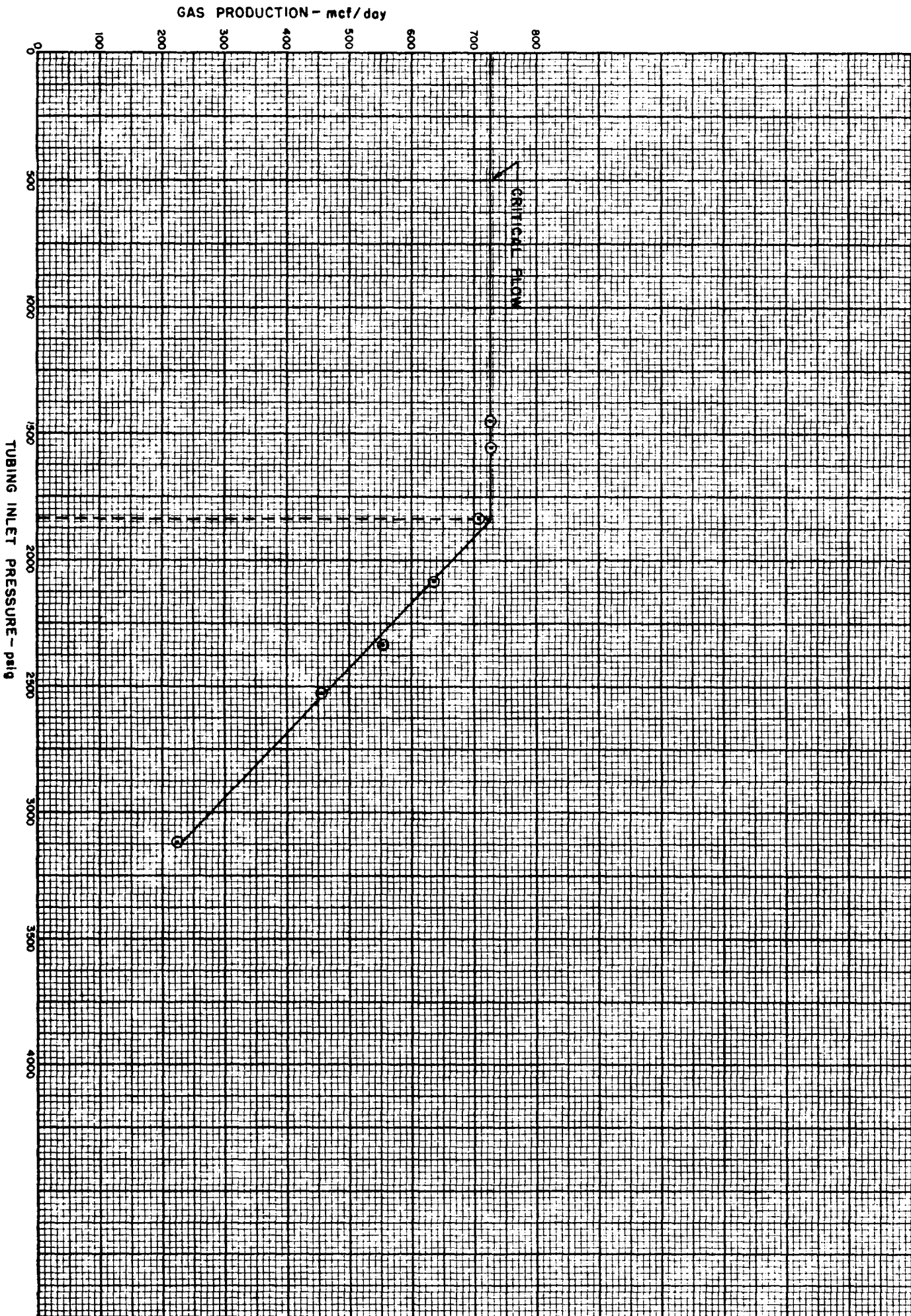
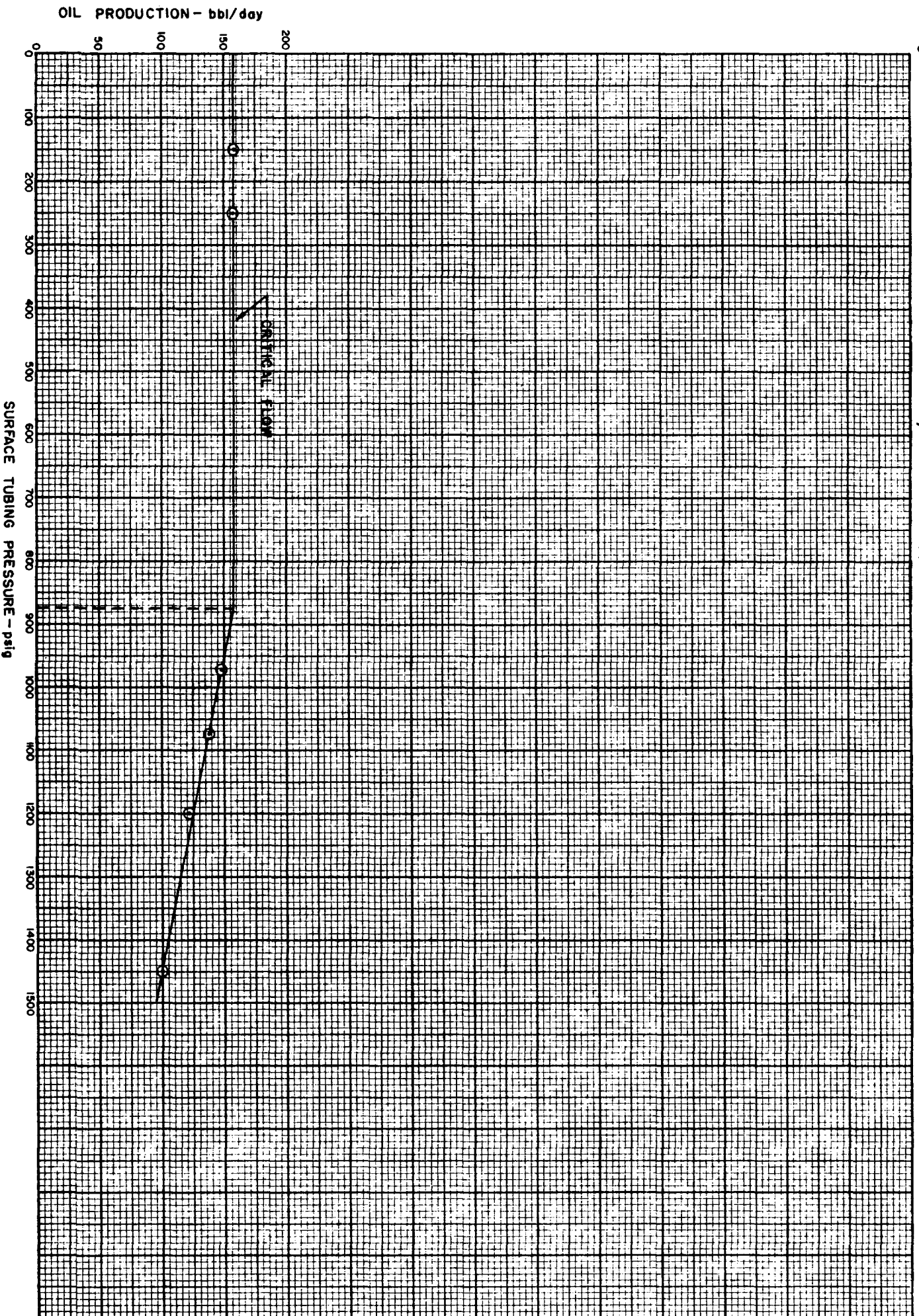


Fig. 9 Individual Test Data for Lower Zone, Well No.4. Upper Zone Blanked Off



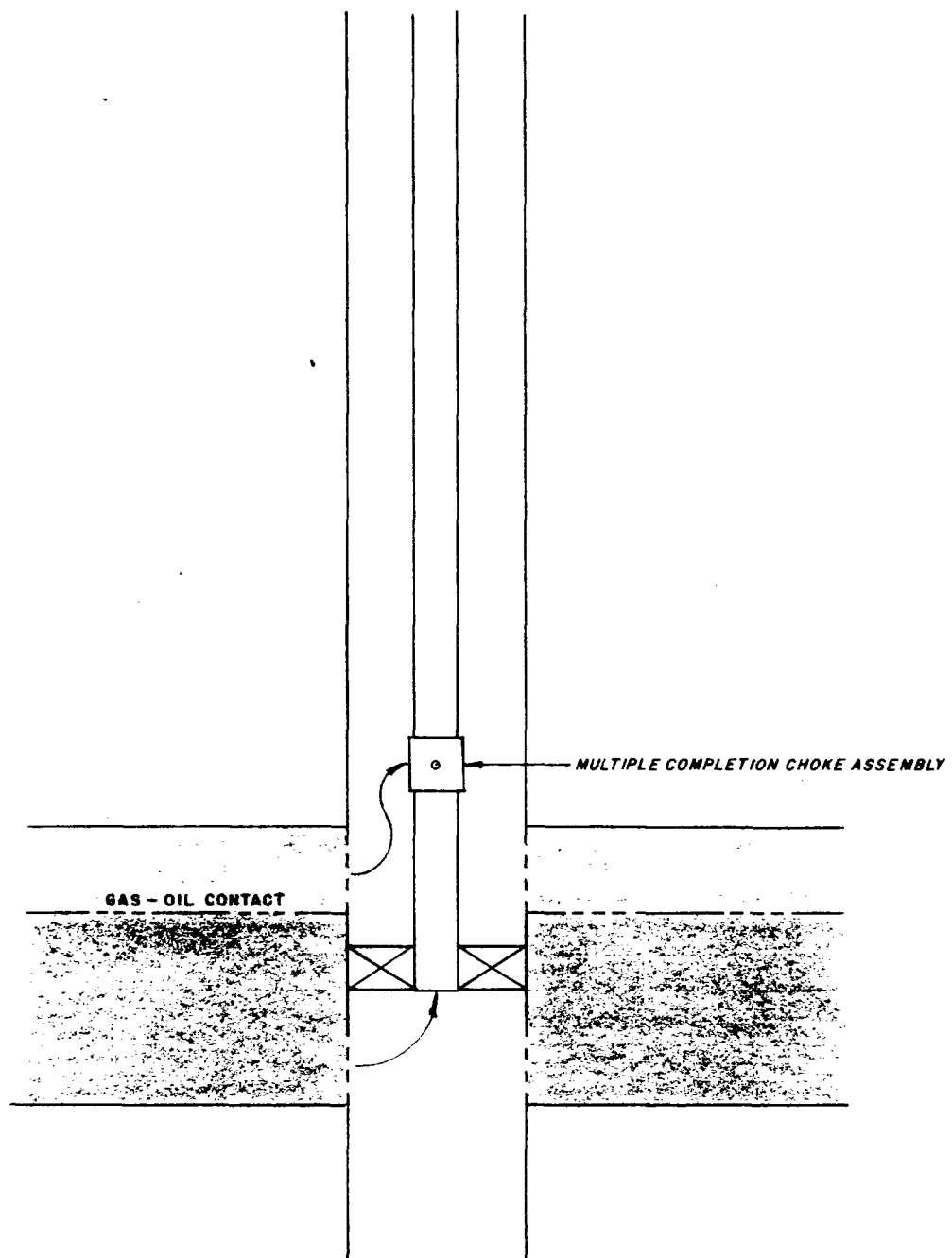


FIGURE 10
GAS LIFTING LOWER SECTION OF SINGLE ZONE WELL WITH GAS CAP

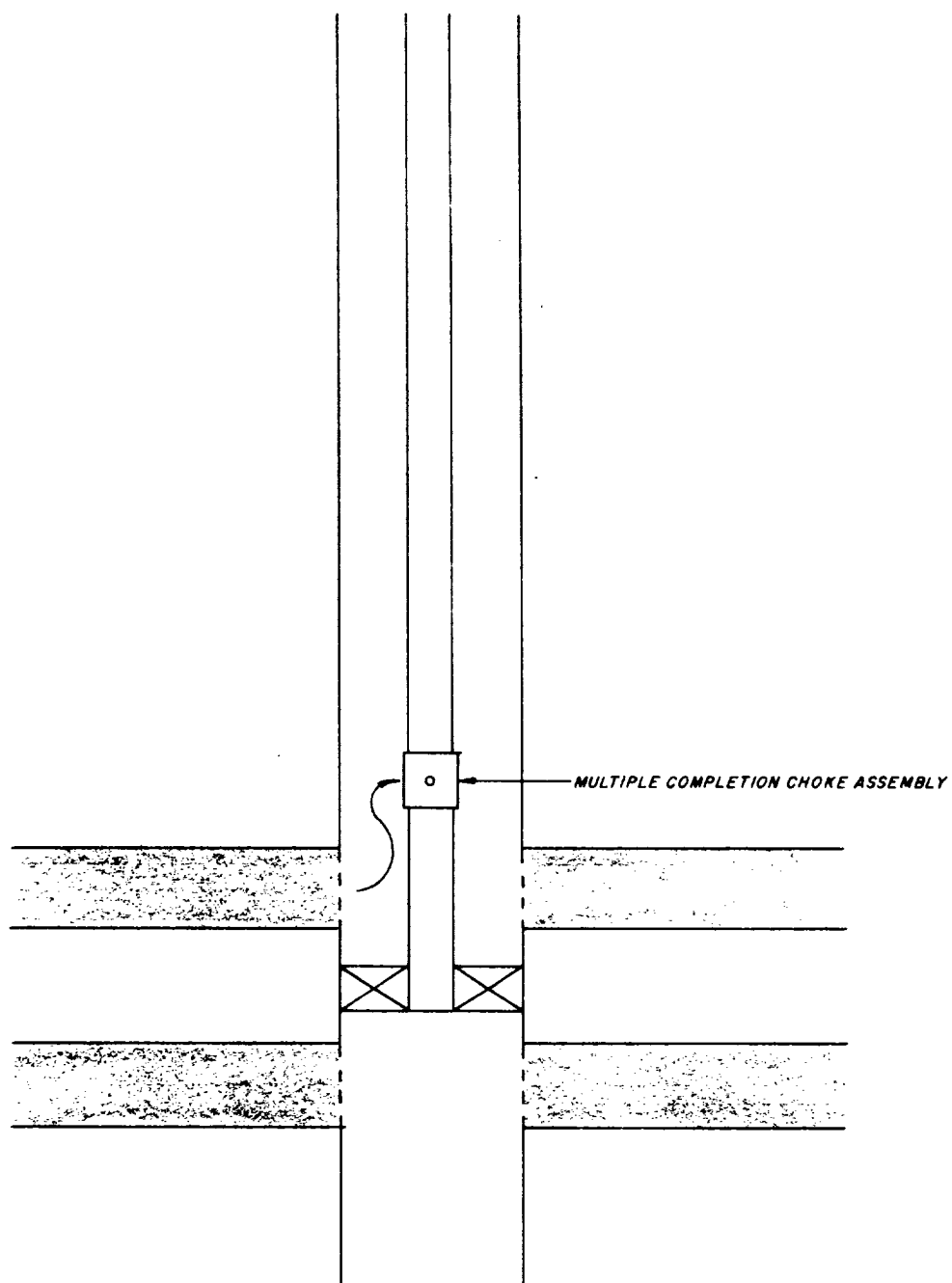


FIGURE II
ALLOWABLE OF LOWER ZONE TRANSFERRED. UPPER ZONE PRODUCED THROUGH
TUBING WITH LOWER ZONE BLANKED OFF.
PERIODIC TESTS OF LOWER ZONE MADE BY LIFTING WITH UPPER.

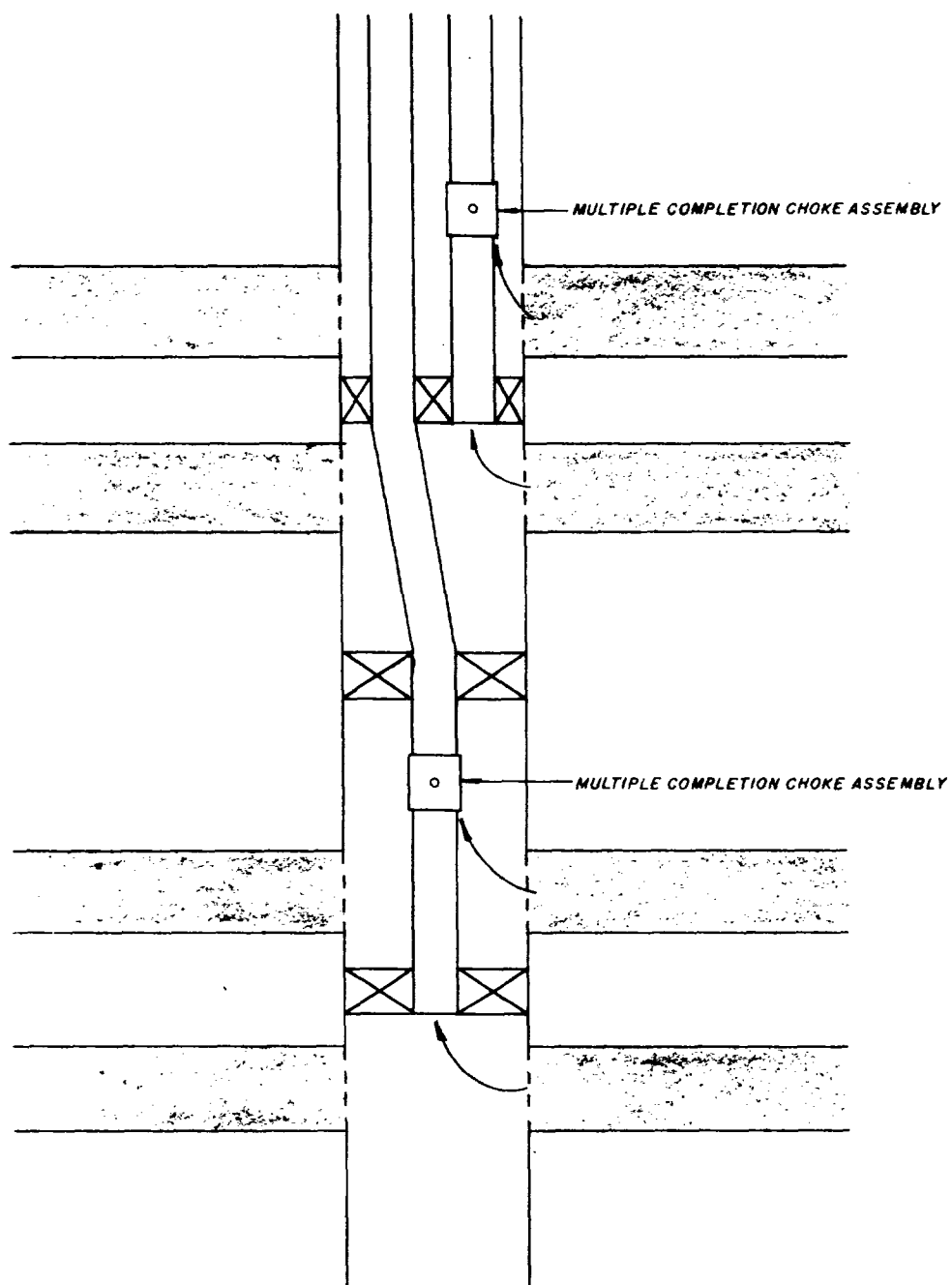


FIGURE 12
TWO STRING QUADRUPLE COMPLETION.

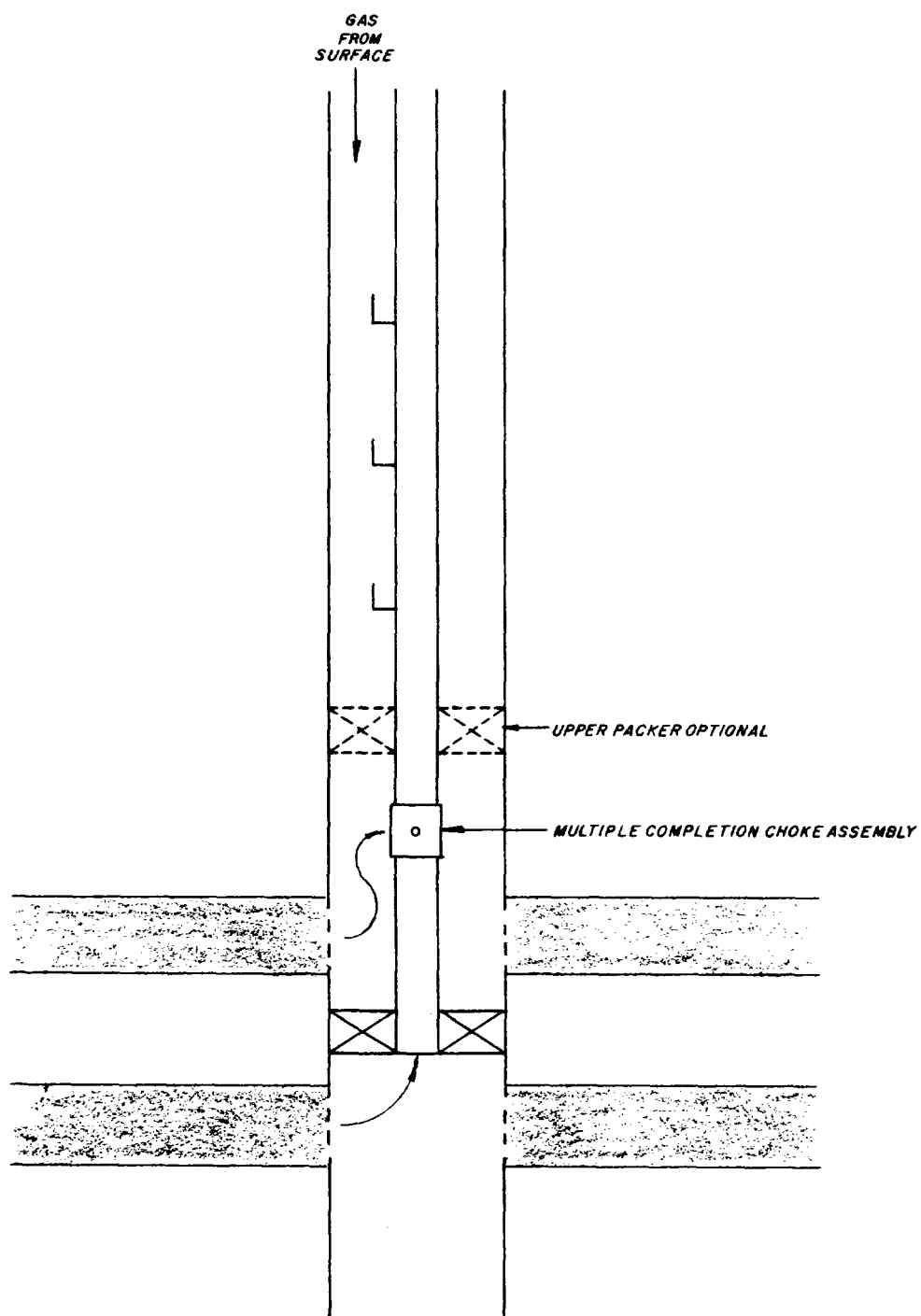


FIGURE 13
GAS LIFTING TWO ZONES WITH ONE STRING OF FLOW VALVES

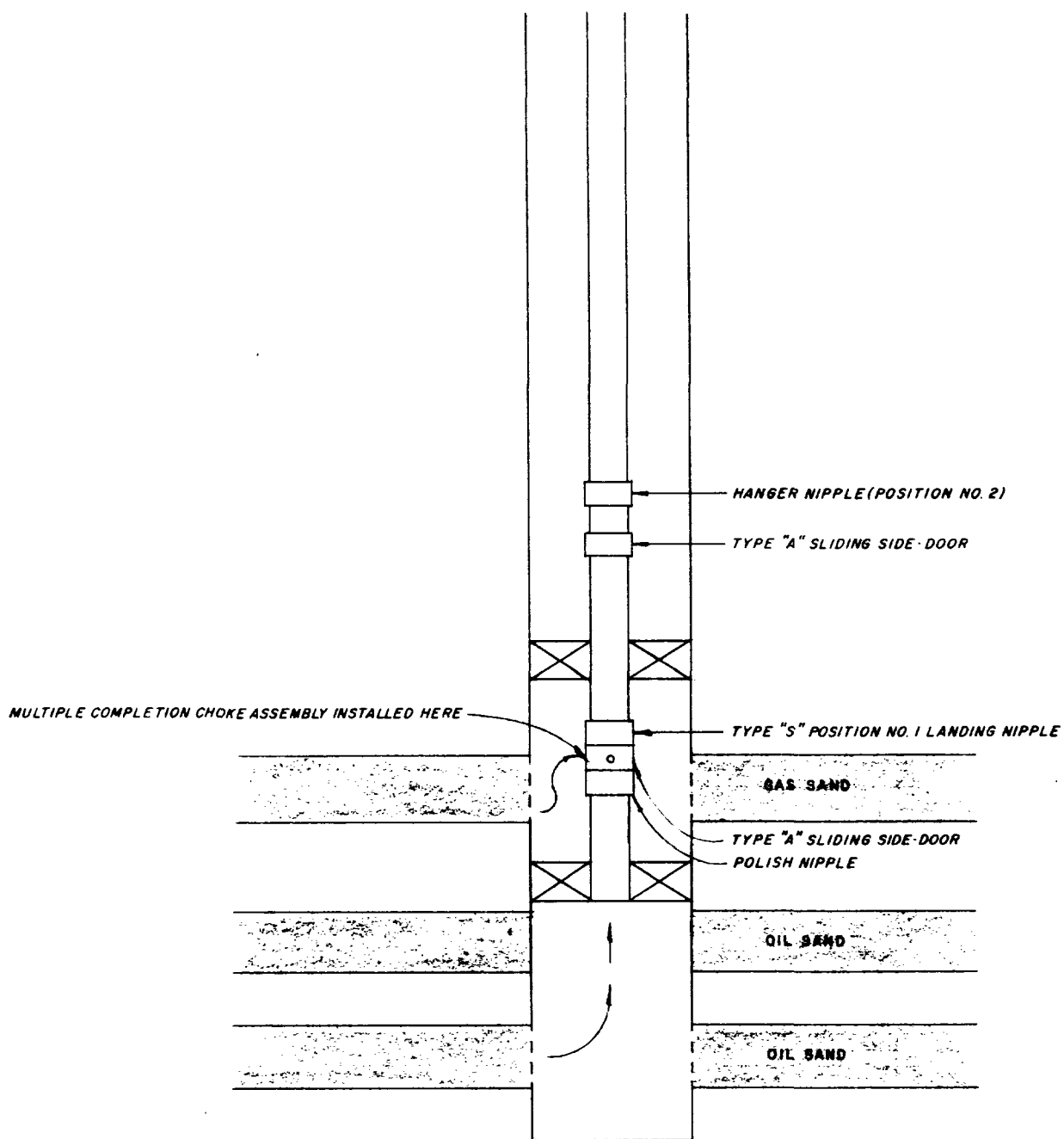


FIGURE 14
GAS LIFTING PERMANENT COMPLETION TYPE WELL

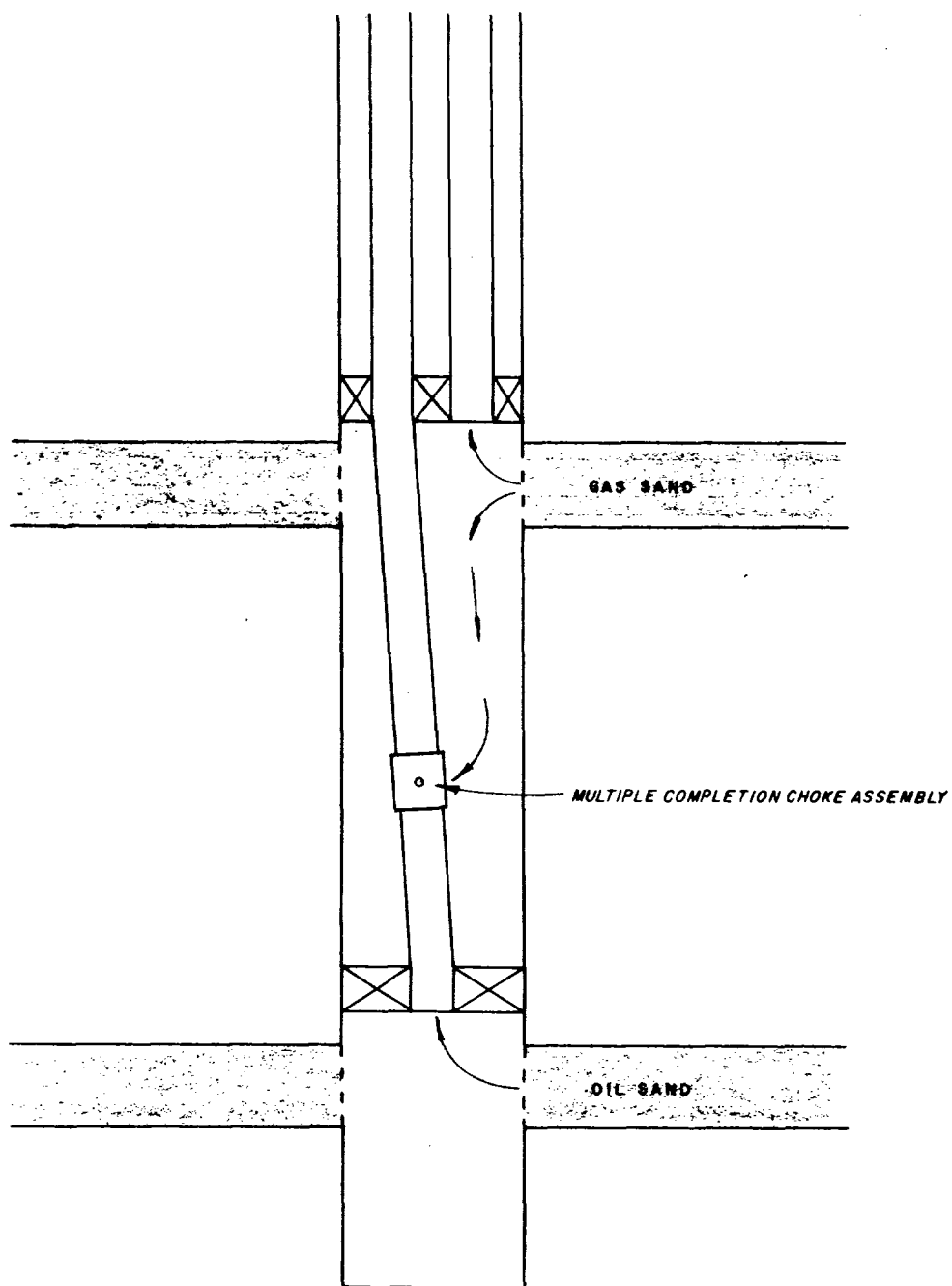


FIGURE 15
HIGH PRESSURE GAS TO SALES LINE AND
LIFTING DEEP, LOW PRESSURE OIL ZONE.
SIDE DOOR CHOKE IS RUN IN LANDING NIPPLE UNTIL
MULTIPLE COMPLETION CHOKE ASSEMBLY IS NEEDED.

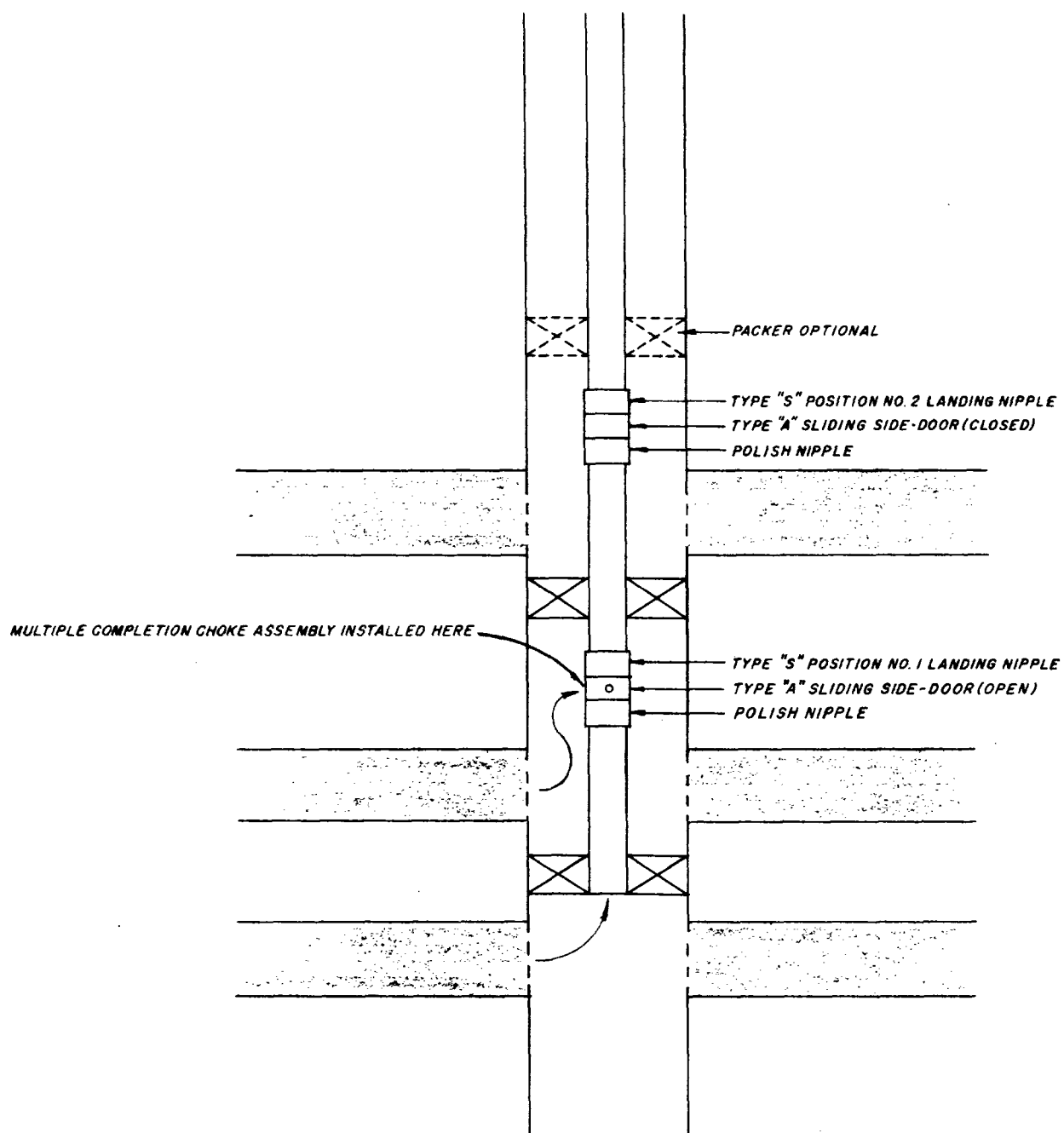


FIGURE 16
SELECTIVE COMPLETION USING MULTIPLE COMPLETION CHOKE ASSEMBLY.
TWO OF THE ZONES ARE PRODUCED SIMULTANEOUSLY. WHEN EITHER IS
DEPLETED, IT IS REPLACED WITH THE THIRD ZONE.

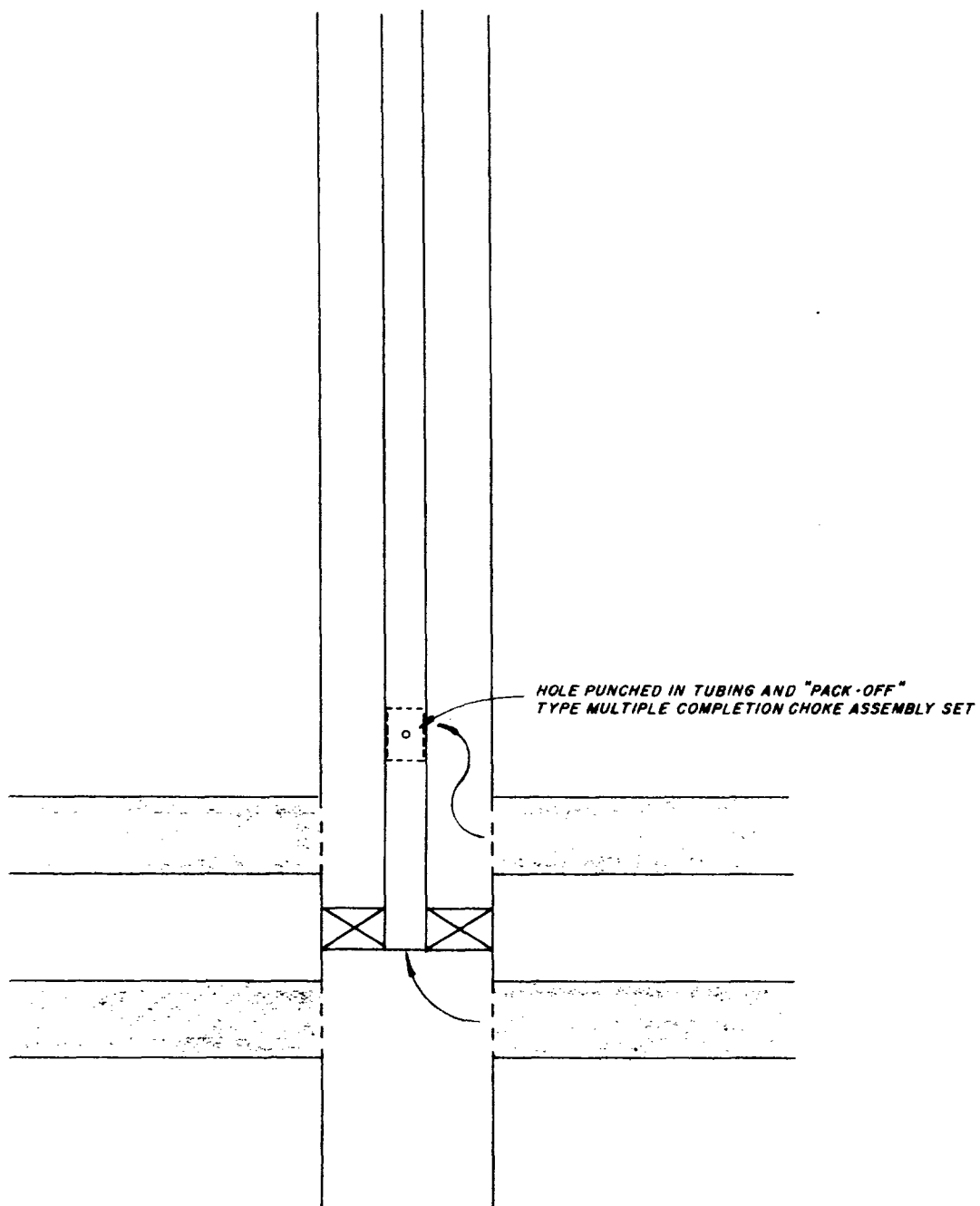


FIGURE 17
METHOD OF INSTALLING MULTIPLE COMPLETION CHOKE ASSEMBLY IN WELL
NOT ORIGINALLY EQUIPPED WITH SIDE-DOOR CHOKE LANDING NIPPLE.