Attached are the original pressure charts showing the shut-in tubing (Morrow) and casing (Wolfcamp) surface readings. The charts show that during the twelve days, the Morrow zone showed a higher initial surface pressure which within 48 hours had climbed to a maximum surface pressure of 2600 psig then declined to 2300 psig at the end of twelve days. This was probably due to heavier gradients created by water vapor. In the meantime, the Wolfcamp zone showed an initial shut-in casing pressure of about 1500 psig which climbed steadily to 3062# at the end of the 279 hour shut-in. This trend showed the Wolfcamp surface pressures were increasing while the Morrow surface pressures were decreasing strongly suggesting the two zones are segregated.

We hope this information will enable the commission to determine whether a modified shut-in test would be required or whether this data is sufficient evidence of segregation. If additional data is required, please contact this office.

Yours very truly,

CHAMPLIN PETROLEUM COMPANY

D. C. Condie
District Engineer

DCC:bg
Attachments