

Hobbs, New Mexico

July 30, 1957

Mr. E. J. Fischer, Engineer District No. 1
Oil Conservation Commission
Box 2045
Hobbs, New Mexico

Dear Sir:

A packer leakage test was performed on Sinclair Oil & Gas Company's State 396 well No. 3 in Section 35-T15S-R36E using the normal procedure set forth by the New Mexico Oil Conservation Commission. Due to the low well-head pressures encountered on this dually completed well, the normal procedure was inadequate and it was felt that another approach would yield more desirable and accurate results. With this idea in mind, a different approach was taken to establish the fact that the two producing zones were separated properly. A second packer leakage test was performed and the procedure is as follows:

Both sides of the dual well were shut-in 72 hours to give complete stabilization of both zones. The fluid level in the lower zone need not necessarily be static, but it is imperative the fluid level in the upper zone be static. The static fluid level of the upper zone was established and recorded by a sonic method. After establishing the fluid level of the upper zone, the lower zone was produced at its normal rate for 24 hours. After 24 hours of production from the lower zone, the fluid level of the upper zone was again established by the sonic method. The proof of the complete separation of the two zones lies in the fact that the static fluid level in the upper zone remained the same after removal of fluid from under the packer. Had the packer failed in separating the two zones, fluid from the upper zone would have been lost to the lower zone during the removal of the fluid being produced.

Respectfully submitted,

W. H. Heisler

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Orig & cc: OCC ✓
cc: PHR, HFD, HAM, JKL, File