EW "EXICO OIL CONSERVATION COM" SIC" Ond-pullet Back Pressure Test for Gus Wulls (Deliverability)

Form C-122-C 4-1-54

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This form is to be used for reporting deliverability tests in the designated Dry Gas Pools of Lea County as ordered by New Mexico Oil Conservation Commission Directive dated March 15, 1954, which directive was provided for by Orders R-365-A through R-376-A. For details regarding this test please refer to the above mentioned Directive.

## NOMENCLATURE

- Q = Actual flow at end of flow period at W. H. working pressure (P<sub>w</sub>). MCF/da. @ 15.025 psia and 60° F.
- P<sub>c</sub> = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_d$  = Deliverability pressure; 80 % of 72 hour individual wellhead shutin pressure ( $P_c$ ). psia
- Pw = Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- $P_t =$  Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing). psia
- D = Deliverability at Deliverability pressure (P<sub>d</sub>) MCF/da. @ 15.025 psia and 60°F.

p<sub>f</sub> = Static meter pressure, psia,

h. - Differential meter pressure, inches water.

Fg = Gravity correction factor.

 $F_t$  = Flowing temperature correction factor.

F \_ Supercompressability factor.

n - Slope of back pressure curve.

DELIVERABILITY FORMULA

$$D = Q \qquad \left[ \frac{.36}{1 - \frac{P_w}{P_c}} \right] \left[ 1 + \frac{P_w}{P_c} \right]^n$$

Note: If  $P_w$  cannot be taken because of manner of completion or condition of well, then  $P_w$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{t.}$ .