3-NMOC 2-Redfern 1-Ohio 1-Phillips

Form C-122 Revised 12-1-55

Revised 12-1-55 1-Phillips MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS 1-7110 Pool Vildes Formation Dekota County San Juan Initial x Annual Special Date of Test 7-29-59 Company Redform and Hord Lease Phillips Well No. /1 Unit <u>c</u> Sec. 16 Twp. 28% Rge. 11% Purchaser\_ Casing St. Wt. 15.5 I.D. Set at 6241 Perf. 6218 To 6064 Tubing 2 3/8 Wt. 4.7 I.D. Set at 6163 Perf. 6163 To 6159 Gas Pay: From 6218 To 6964 L xG 0.690 \_GL Bar.Press. Producing Thru: Casing Tubing X Type Well Single Single-Bradenhead-G. G. or G.O. Dual Date of Completion: Packer Reservoir Temp. OBSERVED DATA Tested Through (Phoke) (Choke) (Phoke) Type Taps\_ Flow Data Tubing Data | Casing Data (Choke) Diff. Press. Duration (Prover) Press. Temp. Press. Temp. Temp. (Line) of Flow Nc. (Orifice)  $^{\mathrm{o}}\mathrm{_{F}}$  .  ${}^{\mathsf{D}}\mathbf{F}$  .  $\mathbf{h}_{\mathbf{W}}$ oF. Size Size psig psig Hr. psig 2110 2113 3/4\* 149 898 3 hrs. 70 FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow Q-MCFPD Factor Factor No Factor F<sub>g\_</sub> Ft  $h_{\mathbf{W}}p_{\mathbf{f}}$ @ 15.025 psia (24-Hour) psia  $F_{pv}$ 3066 .7343 1.629 11.3650 261 .9905 PRESSURE CALCULATIONS Specific Gravity Separator Gas Jas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Flowing Fluid Bravity of Liquid Hydrocarbons  $\overline{P}_{\mathbf{W}}$  $(F_cQ)^2$  $(1-e^{-s})$  $P_c^2 - P_w^2$  $P_{+}^{2}$  $(F_cQ)^2$  $\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$  $F_{c}Q$  $P_w 2$ Cal. No. Р<u>w</u> Pt (psia) 1.226 838 3688 910 .73 1.1651 Absolute Potential: 3578
COMPANY Red or and mark MCFPD; n Malend, Texas Es 1737 AGENT and TITLE T.H. Dugen Committing Pot. Bag. WITNESSED COMPANY

REMARKS

SEP 21 1959
OIL CON. COM.
DIST. 3

## INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

## NOMENCLATURE

- Q I Actual rate of flow at end of flow period at W. H. working pressure (Pw). MCF/da. @ 15.025 psia and 600 F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{\rm DV}$  Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If  $P_{\rm W}$  cannot be taken because of manner of completion or condition of well, then  $P_{\rm W}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\rm t}$ .

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