Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

| | | | | | | | | | | | lossa | | |
|--|--|---------------|---|------------------|----------------|---|---|--|-------------|---------------------------|--|---------|--|
| | | | | | | | | | | | 6-16-65 | | |
| Comp | any the | m In | en ?r | od artis | I | .ease | Peters) | Leres | We] | 1 No | | | |
| | | | | | | | | | | | CONTRACT | | |
| Casing Wt. 15.0 N.D. b. Set at 100 Perf. 100 To | | | | | | | | | | | | | |
| Tubing 1-1/4 Wt. 2-10D. Set at 145 Perf. 146 To 1463 | | | | | | | | | | | | | |
| Gas Pay: From 1009 To L L xG .000 -GL 1067 Bar. Press. 11.0 | | | | | | | | | | | | | |
| Prod | Producing Thru: Casing Tubing Type Well Single-Bradenhead-G. G. or G.O. Dual | | | | | | | | | | | | |
| Date | Date of Completion: Packer 6300 Reservoir Temp. | | | | | | | | | | | | |
| | OBSERVED DATA | | | | | | | | | | | | |
| Tested Through (Prover) (Choke) (Meter) Type Taps | | | | | | | | | | | | | |
| Elou Deta | | | | | | | Tubing Data | | Casing Data | | - | | |
| | (Prover) | (Cho | ke) | Press. | Diff. | Temp. | Press. | Temp. | | | Duration of Flo | on on | |
| No. | (Line) Size | Si | ice) .ze | psig | h _w | o _F . | psig | o _F , | psig | °F. | Hr. | | |
| SI | | | | | | | 945 | | 367 | | 77 000.5 | | |
| 1. | 20 | 3/ | | 117 | | 350 | 117 | 333 | 73 | |) are, | | |
| 2. | | | | | | | | | | 1 | | | |
| 3. 4. | | | | | | | | | | | | | |
| 5. | | | | | | | | | <u> </u> | | | | |
| | | | | | | PT OW CAT | CULATION | ıs | | | | | |
| | Coeffici | ont | | Py | essure | Flow | Temp. | Gravity | Compr | ess. | Rate of Flor | w | |
| No | N - | | $\frac{1}{\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}}$ | | 1 1 5 | | ctor Fact | | r Factor | | G-MCLLD | | |
| "" | | | | | psia | F | t I | Fg | Fpv | | ● 15.025 ps | ıa — | |
| 1 | 12.3650 | | | | 12) | 1,0000 | | ·FAT | 1.0 | U | 1979 | | |
| 1. 2. | | | | | | | | | | | | | |
| 3. 4. 5. | | | | | | | | | | | | | |
| 4. | | | - | | | | | | | | | | |
| 5. | L | | L | | اا | | | | | | | | |
| | | | | | PR | ESSURE (| CALCULATI | ONS | | | | | |
| | | _ | | | | e/hh1 | | Spec | ific Gray | rity Se | parator Gas | | |
| Gas Liquid Hydrocarbon Ratio_ | | | | | | cf/bbl.deg | • | Spec | ific Grav | fic Gravity Flowing Fluid | | | |
| Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing P _c (1-e ⁻⁸) | | | | | | | | | | 7120 | | | |
| | | | | | | | | | | | | | |
| | | , | | —т | | | | | Υ . | | | | |
| No. | $P_{\mathbf{w}}$ | P | 2 F | r _c q | $(F_cQ)^2$ | 2 (| F _c Q) ² 1-e ^{-s}) | P. 2 | $P_c^2-P_1$ | 2 | Cal. P. Pc | | |
| No. | Pt (psia) | | t · | C | (-64) | (| 1-e-s) | | 27584 | | Pc | | |
| 1. | - 5 (27) | <u> </u> | | | | | | <u> 180000 </u> | 61700 | -461 | ////// | | |
| 2. | | | | | | | | | | /RU | 1 | | |
| 3. | | | | | | | | | | | 123 965 | | |
| <u>4.</u> 5. | | + | | | | | | | | 1 170 | COM | | |
| , | -1 | | | 72h | | MCFPD | | 75 | | 1 oil | CON. COM. | | |
| | solute Poten MPANY | | 3 | Tal 400 | POLICE | OF CORNE | | | | 1 | | | |
| | DRESS | | | | | 10 to | A SAME OF THE PARTY AND | Original Sign | | | | | |
| AGI | ENT and TITL | E | Tar | | Marie Per | · Apple | | VERNE RO | CNUCLD | | | | |
| WITNESSED COMPANY | | | | | | | | | | | | | |
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| (1 |) ser \$1 % | 14 COM | tore. | Gas Co | · FOR | Water State | ton. | Next on | | - | | | |
| - (3 |) 661 (***) | 3 ♦ ≥≠ | Chair | an, | 17.4° | 1. · · · · · · · · · · · · · · · · · · · | va, 🗫 | | | | | | |
| (1 |) oc: %130 | | | | | | | | | | | | |

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 = 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.
- Pw 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.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{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 $P_{\rm t}$.