MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

| Pool | Ballard | Pictu | red Cl | iffs Fo | rmation | _ Pictur | ed Cliff | 8 | _County_ | San J | 'uan | |
|---|--|---------------|-----------------|------------------|----------------|----------|--|------------------|-----------------------------|---------------------------------------|---|--|
| Init | ial X | | Annu | al | | Spec | ial | | _Date of | Test | June 20, 1959 | |
| Comp | any SOUTH | ern un | ION GA | S COMPA | NY | Lease | Newson | | Wel | 1 No | 6-B | |
| Unit | . <u>G</u> S | Sec | 7Tw | p. 26 N | Rg | e. 8W | Purc | haser_ Sc | uthern Un | ion Gas | Company | |
| Casi | ng 51 W | It. <u>15</u> | .5# I | .D. 4.9 | 50 Se | t at 214 | . 7 | rf 1 955 | 5 | To2 | 2070 | |
| | | | | | | | | | | | | |
| | Pay: From_ | | | | | | | - | | | | |
| Producing Thru: Casing Tubing X Type Well Single-Gas Single-Bradenhead-G. G. or G.O. Dual | | | | | | | | | | | | |
| | of Complet | | | | | | Sin | gre-Rrade | nnead-G. | G. or G | i.O. Dual | |
| | | | | | | | ED DATA | | | | | |
| Test | Tested Through (Choke) (Choke) Type Taps | | | | | | | | | | | |
| | | | low Da | | | | Tubing | | Casing D | | I - | |
| No. | (Prover) (Line) | (Cho | oke) | Press. | Diff. | Temp. | Press. | . | ļ | 1 - | Duration of Flow | |
| | Size | | | psig | h _w | °F. | psig | °F. | psig | ^o F∙ | Hr. | |
| SI | | |). se | 250 | | 79 | 617 | 99 | 617 | | 7 days | |
| 1. 2. | | 3/1 | 118 | 350 | | 73 | 350 | 73 | 366 | | 3 hrs. | |
| 3. | | 1 | | | | | | | | | | |
| 4. 5. | | | | | | | | | | | | |
| | | 1 | | | | | | | | | <u> </u> | |
| | Cooffici | | | | | | CULATION | | Company | | Rate of Flow | |
| No. | Coefficient | | | | | | Temp. Gravity tor Factor | | | | | |
| | (24-Hou | r) | $\sqrt{h_{wl}}$ | $p_{\mathbf{f}}$ | psia | F. | t | F_g | Fpv | | @ 15.025 psia | |
| 1. | 12,3650 | | | | 62 | 0.9877 | | 0.9463 | 1.022 | | 4-184 | |
| 1. 2. 3. 4. | | | | | | | | | | | | |
| 2 c | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | |
| | | | | | PR. | ESSURE C | ALCU ATI | ONS | | | | |
| as L | iquid Hydro | carbor | n Ratio | 0 | | cf/bbl. | | Speci | fic Gravi | ty Sepa | rator Gas | |
| ravity of Liquid Hydrocarbons | | | | | | deg. Spe | | | cific Gravity Flowing Fluid | | | |
| c(1-e ^{-s}) | | | | | | | , | | _629Pc | | 395 | |
| | | | | | | | | Pw | 378 | Pw2 | <u> کابائ</u> | |
| | $P_{\mathbf{W}}$ | | T | | | | .2 | | 2 2 | | _ | |
| No. | Pt (psia) | ₽t | F | eQ | $(F_cQ)^2$ | (F | $\frac{c^{Q})^2}{-e^{-s}}$ | P_w^2 | $P_c^2 - P_w^2$ | 1 | $\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$ | |
| 1. | It (psia) | | _ | | | | | 11:3 | 252 | | P _C | |
| 1. 2. 3. 4. | | | | | | | | | | | | |
| 3. | | | | | | | | | | | | |
| 7. + | | | | | | | | | | 1 | | |
| Abso | lute Potent | _ | 6, | | | MCFPD; | n0.8 | 5 | | | | |
| | ANY SOU ESS Box | r Bic | UNION | GAS CO | MANY Me | rico | | | | | | |
| AGEN | T and TITLE | Th | omas E | Fenne | - Engi | neer | | | | · · · · · · · · · · · · · · · · · · · | | |
| WITN | ESSED | | | | | | | | | | | |
| COMP. | ANI | | | | | REM | ARKS | | | | | |

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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 \equiv Actual rate of flow at end of flow period at W. H. working pressure (P_W). MCF/da. @ 15.025 psia and 60° F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. 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
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fnv Supercompressability factor.
- n _ Slope of back pressure curve.
- Note: If $P_{\mathbf{W}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{W}}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\mathbf{t}}$.

| AZTEC DIS | TRICT OFFIC | E. | | | | | | |
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