NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

| POOT | Basin I | akota | | Fo | rmation | Dakote | a | | _County | San Ju | a n | |
|--|---|---------------------------------------|--------------------|----------------------------|-------------------------------------|------------------------|----------------|--|--------------------------------|------------------|---|--|
| Initial X Annual_ | | | 1 | Special | | | | _Date of ' | rest | 3-9- 65 | | |
| Comp | any Aust | tral Oi | 1 Co. | | I | .ease | Candela | rio et al | Wel | l No | 1 | |
| _ | J s | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
| | ng 4 1/2 w | | | | | | | | | | 6576 | |
| Tubi | ng 2 1/16 W | t. <u>3.</u> | <u>25</u> I. | D | Set | at_640 | 00 Pe | erf. Open I | inded | To | | |
| Gas | Pay: From_ | 6348 | To | 657 6 | L | x | G <u>.65</u> e | stGL_ | | Bar.Pre | 885• | |
| Prod | ucing Thru: | Casi | .ng | | Tut | oing | X | Type We: | 11 | Singl | e = Gas | |
| Date | of Complet: | ion: | | | Packer | • | Sir | ngle-Brade Reservo | nhead-G. (ir Temp | G. or G | .0. Dual | |
| 5400 | 01 00mp100 | | | | | | ED DATA | | | | | |
| Test | ed Through | (Prove | <u>ar) (C</u> | Choke) | (Meter) | ODOMIT. | BD DRIK | | Туре Тар | s | | |
| | | <u>F1</u> | ow Da | ıt.a | Tubing Data | | | z Data | Casing Data | | | |
| No. | | | ce) | | Diff. | Temp. | | Temp. | Press. | Тещр. | Duration of Flow | |
| NO | Size | | | psig | h _w | °F. | psig | °F. | psig | °F∙ | Hr. | |
| SI 1. | | <u> </u> | | | | | 2190 | - | 21.90 | | | |
| 2. | | 3/4 | 11 | 353 | | 62 | | | 1253 | | 3 Hrs. | |
| 3. 4. | | | | | | | | | | | | |
| 5. | | | | · | | | | | | | | |
| | | | | | 1 | T.OW CAT | CULATIO | NS | | | | |
| | Coefficient | | | Pr | Pressure Flow Ter | | | Gravity | Compre | 1 | | |
| | Coeffici | ent | | | | | | | 1 1 | | | |
| No. | | 1 | , / h n | | | Fac | | Factor F_ | | | Q-MCFPD © 15.025 psia | |
| | Coeffici (24-Hou | 1 | √ h _w p | | psia | Fac F | | Factor F _g | Fpv | | Q_MCMPD @ 15.025 psia | |
| 1. | (24-Hou | 1 | √ h _w p | | | | t | | Fpv | | · 1 | |
| 1. 2. 3. | | 1 | √ h _w p | | psia | F | t | Fg | Fpv | | ● 15.025 psia | |
| 1. 2. 3. 4. | (24-Hou | 1 | √ h _w p | | psia | F | t | Fg | Fpv | | ● 15.025 psia | |
| 1. 2. 3. 4. 5. Gas I | (24-Hou | carbon | Ratio | o f | psia 365 PR | .999 | EALCULAT: | .9608 IONS Speci | F _{pv} | ty Sepa | 4493 arator Gaswing Fluid | |
| 1. 2. 3. 4. 5. Gas I | (24-Hou 12.365 Liquid Hydro | carbon | Ratio | o | psia 365 PR | •990 ESSURE O | EALCULAT: | .9608 IONS Speci | fic Gravi | ty Sepa | 4493 arator Gaswing Fluid | |
| 1. 2. 3. 4. 5. Gas I | (24-Hou 12.365 Liquid Hydro | carbon | Ratio | ons L-e ⁻⁵) | psia 365 PR | essure of cf/bbl.deg. | EALCULAT: | .9608 IONS Speci | fic Gravi | ty Sepaty Flor | 4493 arator Gaswing Fluid | |
| 1. 2. 3. 4. 5. Gas I Gravi | (24-Hou 12.365 Aiquid Hydro ty of Liqui Pw Pt (pair) | carbon | Ratio | ons L-e ⁻⁵) | psia 365 PR | essure of cf/bbl.deg. | CALCUIAT | .9608 IONS Speci | fic Gravi | ty Sepaty Flor | 4493 arator Gas_wing Fluid_ 418,404 | |
| 1. 2. 3. 4. 5. Sas I Gravi Fc. No. 1. 2. 3. | (24-Hou 12.365 Liquid Hydro | carbon | Ratio | ons L-e ⁻⁵) | psia 365 PR | essure of cf/bbl.deg. | CALCUIAT | Fg .9608 IONS Speci Speci Pc2 | fic Gravi fic Gravi 2102 | ty Sepaty Flor | 4493 arator Gas wing Fluid 418,404 | |
| 1. 2. 3. 4. 5. Sas I Gravi Fc. No. 1. 2. 3. 4. | (24-Hou 12.365 Aiquid Hydro ty of Liqui Pw Pt (pair) | carbon | Ratio | ons L-e ⁻⁵) | psia 365 PR | essure of cf/bbl.deg. | CALCUIAT | Fg .9608 IONS Speci Speci Pc2 | fic Gravi fic Gravi 2102 | ty Sepaty Flor | ### 15.025 psia 4493 ################################ | |
| 1. 2. 3. 4. 5. Gas I Gravi F.c. No. | 12.365 Liquid Hydro ty of Liqui Pw Pt (peis) 1265 | carbon d Hydro | Ratio ocarbo (1 | ons l-e-s) | psia 365 PR | essure of the deg. | CALCULAT: | Fg .9608 IONS Speci Speci Pc2 | fic Gravi fic Gravi 2102 | ty Sepaty Flor | ### 15.025 psia 4493 ################################ | |
| 1. 2. 3. 4. 5. Gas I Gravi F c No. 1. 2. 3. 4. 5. Abso | (24-Hou 12.365 Liquid Hydro ty of Liqui Pw Pt (psis) 1265 | carbon d Hydro | Ratio | ons L-e ^{-s}) | PRI (F _c Q) ² | essure of cf/bbl. deg. | CALCUIAT: | Fg .9608 IONS Speci Speci Pc2 | fic Gravi fic Gravi 2102 | ty Separate Pc 4 | arator Gas_wing Fluid_A18.404 | |
| 1. 2. 3. 4. 5. Gas I Gravi F c No. 1. 2. 3. 4. 5. Abso | (24-Hou 12.365 Liquid Hydro ty of Liqui Pw Pt (psis) 1265 | carbon d Hydro | Ratio | ons L-e ^{-s}) | PRI (F _c Q) ² | essure of cf/bbl. deg. | CALCUIAT: | Fg .9608 IONS Speci Speci Pc2 | fic Gravi fic Gravi 2102 | ty Separate Pc 4 | arator Gas_wing Fluid_A18.404 | |
| 1. 2. 3. 4. 5. Gas I Gravi F c No. 1. 2. 3. 4. 5. Abso | (24-Hou 12.365 Liquid Hydro ty of Liqui Pw Pt (psis) 1265 | carbon d Hydro | Ratio | ons L-e ^{-s}) | PRI (F _c Q) ² | essure of cf/bbl. deg. | CALCUIAT: | Fg .9608 IONS Speci Speci Pc2 | fic Gravi fic Gravi 2102 | ty Separate Pc 4 | arator Gas_wing Fluid_A18.404 | |
| 1. 2. 3. 4. 5. Gas I Gravi Fc No. 1. 2. Absort ADDI AGEN WITH | 12.365 Liquid Hydro ty of Liqui Pw Pt (peis) 1265 | carbon d Hydro | Ratio | ons L-e ^{-s}) | PRI (F _c Q) ² | essure of cf/bbl. deg. | CALCUIAT: | Fg .9608 IONS Speci Speci Pc2 | fic Gravi fic Gravi 2102 | ty Separate Pc 4 | arator Gas_wing Fluid_A18.404 | |

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 \subseteq 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 méter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- Fpv 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 $P_{\rm t}$.