1-WP Carr

NEW MEXICO OIL CONSERVATION COMMISSION 1-D 1-F

Form C-122

| | | | | MULTI- | POINT BA | ACK PRES | SURE TEST | r FOR GAS | WELLS | | Revise | ed 12-1-5 | |
|--|---|-------------|---------------------------------------|-------------------|-------------------|-------------|--------------------------------------|--------------------|----------------------------------|------------------|------------------------------------|----------------|--|
| Pool _ | Basin-I | akota | | Fo | rmation | Dal | kota | | _County | San J | Jan | | |
| Initia | 1 X | | Annu | al | | Spec | ial | | _Date of ' | re s t | 2/22/6 | .2 | |
| Compan | y_ Sout | hwest | Predu | ction Co |). | Leasel | Helen Har | rtman | Wel | l No | 1 | | |
| Jnit _ | <u> </u> | Sec | 8 Tw | p. 30 1 | Rge | e. 11 W | Purcl | haser | El Paso Na | tural | Gas Co | moany | |
| Casing | 41 V | /t | 10.50 _I | .D. 4 | .040 Set | t at(| 6655 Per | rf. 6 5 | 08-24 | ľo | 5 592-66 | 04 | |
| [ubing | 1 1 1 V | /t | 2.75 I | .D. <u>1</u> | . 610 Set | t at(| 6605 Per | rf. <u>O</u> p | •n | ro | ind | | |
| Gas Pa | y: From | 6508 | To | 6604 | _L6 | 605_x | G <u>.67</u> | | 4425 | Bar.Pr | ess | 12-0 | |
| ^o roduc | ing Thru: | : Ca | .sing | | Tul | oing | X | Type We | 11 Single | Gas | | | |
| | | | | | | | Sin | gle-Brade | nhead-G. | 3. or (| G.O. Di | ıal | |
| | | | | | | | ED DATA | | | | | | |
| lested | Through | | | | (MECER) | | | | Туре Тар | | | | |
| | (Prover) | | Flow D | | Diff. | Temp. | Tubing Press. | | Casing D | | - , | Duration | |
| | (Line) Size | (Ori | fice) | | } | | [| | | o _F | j | of Flow Hr. | |
| SI | | l | | 1 1 | ł | | 2256 | | 2256 | | | 7 days | |
| L. 2. | | ; | 3/4" | 218 | | 69 | 218 | 69 | 1241 | | | 3 hre. | |
| 3. | | † | | | | | | | | | | | |
| 5. | | - | | | | | | | | | _ | | |
| Vo • | Coefficient (24-Hour) √ h _w p _f | | | | FLO Pressure psia | | OW CALCULATION: Flow Temp. Factor Ft | | Compress. Factor F _{pv} | | Rate of Flow Q-MCFPD @ 15.025 psia | | |
| | 2.3650 | | <u> </u> | | 230 | .99 | 15 | F _g | | 024 | | ,732 | |
| 2. | | | ┼ | | | | | | _ | | | | |
| 3 e + • · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | |
| e lia | uid Hydro | oca rho | n Rati | 0 | | | alcuiatio | | .fic Gravi | tv Sen | arator | Gas | |
| ravity of Liquid Hydrocarbons deg. Specific Grav | | | | | | | | | fic Gravi | ty Flowing Fluid | | | |
| | | · · · · · · | (| l-e ⁻⁵ | 5) | | • | - | 2268 | Pc 5143.8 | | | |
| | | | | | | | | PW | 1253 | -Pw | 1570. | <u> </u> | |
| 10 • | w t (psia) | P | 2 F | cQ | $(F_cQ)^2$ | (F | (cQ) ² | $P_{\mathbf{w}}^2$ | $P_c^2 - P_w^2$ | | al. | Pw Pc | |
| 2. | ((psia) | | | | | | | 1570.0 | 3573.8 | | <u> </u> | 552 | |
| 2. | | | | | | | | | <u> </u> | | | | |
| 3. 4. 5. | | | | | | | | | | | | | |
| | | | | | | | I | | | | | | |
| | te Potent | cial:_ | | | | MCFPD; | | | | | | | |
| COMPAN ADDRES | | | | | | Company | agton. No | w Mexico | | 02 1) s | | | |
| GENT | and TITLE | <u> </u> | George | L. Hot | | | n Engine | | 1/15 | FW | TA | | |
| VITNES COMPAN | SED | | Art Smith El Paso Natural Gas Company | | | | | - KIDLIII / | | | | | |
| OHENN | * | | EL FOI | BJBN D | 41 045 | | ARKS | | MA MA | RI I | 962 COM./ | | |
| | | | | | | | | | \0.1 | 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 ($P_{\rm W}$). 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.
- F_t Flowing temperature correction factor.
- F_{nv} Supercompressability factor.
- n I Slope of back pressure curve.

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 $P_{\mathbf{t}}$.