Revised 12-1-55

| MULTI-POINT BACK PR | RESSURE TEST | FOR | GAS | WELLS |
|---------------------|--------------|-----|-----|-------|
|---------------------|--------------|-----|-----|-------|

| Poo | 1 _Angel I | wak Bri | enel | FcFc | rmation | Dai | Dakota County | | | San Juan | | |
|--|------------------------------|--------------------|---------------|---------------------|-----------------|------------------------|--|------------------|--|--|------------------|--|
| Ini | tial | | _Annu | al | | Spec | ial | | _Date of | Test | 11/23/60 | |
| Com | pany Astes | cil and | l Gas | Company | | Lease | Boss | | Wel | 1 No | 20-3 | |
| Uni | t | Sec1 | Tw | р. 261 | Rge | e. 9 1 | Purc | haser | | | | |
| Cas | ing 🖖 V | vt. 9. | 90 _I | .D. <u></u> | .090 Set | t at 66 | 10 Pe | rf6 | | Го | 6520 | |
| Tub | ing 2 3/8 v | Vt | • 7 _1 | .D. <u>1</u> | 995 Set | t at6 |)61 Pe | erf. Pin | collar | ľo | | |
| Gas Pay: From 6 to 6510 L 6561 xG 0.65(E) -GL 4135 Bar. Press. 12 | | | | | | | | | | | | |
| Producing Thru: Casing Tubing Type Well Single Bradenhead G G or G O Dual | | | | | | | | | | | | |
| Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 11/16/60 Packer Reservoir Temp. | | | | | | | | | | | | |
| | OBSERVED DATA | | | | | | | | | | | |
| Test | ted Through | | | Choke) | (300030) | | | | Type Tap: | s | | |
| | | <u> </u> | low Da | ata | | | Tubing | Data | Casing Da | | | |
| | (Prover) | (Chol | ke) | Press. | Diff. | Temp. | | Temp. | Press. | | | |
| No. | (Line) Size | (Orif | - | psig | h _w | \circ_{F} . | psig | o _F . | psig | ∍ _F . | of Flow Hr. | |
| SI | | | | | | | 1974 | | 1972 | | 7 days | |
| 1. 2. | | 0. | 70 | | | | 353 | 50 (2) | | | 3 km. | |
| 3. | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | |
| 5. | | <u> </u> | | ļ | | | | L | | | | |
| FLOW CALCULATIONS | | | | | | | | | | | | |
| No. | 1 1 | | Pr | ressure Flow Temp. | | | Gravity Compress. Rate of Florestor Factor Q-MCFPD | | | Rate of Flow | | |
| NO | | | Of | psia F _t | | | | | | @ 15.025 psia | | |
| 1. | 12.365 | | <u> </u> | | 75 | 1.000 | | 0.9608 | 1.0 | | 4647 | |
| 2. | | | | | | | | | _ | | | |
| 1. 2. 3. 4. | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | |
| | | | | | PRE | ESSURE CA | A COUTLATT | ONS | | | | |
| | | | | | | | .200 | | | | _ | |
| | Liquid Hydro Lty of Liqui | | | | | cf/bbl. | | | fic Gravit fic Gravit | | | |
| | | - | | 1-e ⁻⁵) | | | | P _C | 1986 | P _C | 3.944.196 | |
| | | | | | | | | | | | | |
| Т | $P_{\mathbf{w}}$ | | T^{-} | | | | 2 | | 2 0 | | | |
| No. | | $P_{\mathbf{t}}^2$ | F | Q | $(F_cQ)^2$ | (F, | Q^2 | P_{w}^{2} | $P_c^2 - P_w^2$ | Ca | | |
| | Pt (psia) | | | | | (1. | -ε ~丿 | 80.6 8 5 | 3.863.57 | P, | w ^F C | |
| 2. | | | | | | | | | J. J | | | |
| 3. | | | | | | | | | | | _ | |
| 4. 5. | | | _ | | | | | | | | | |
| Absolute Porential: MCFPD: n 0.75 | | | | | | | | | | | | |
| COMPANY ARTOR CLI EING GOR COMPANY | | | | | | | | | | | | |
| ADDRESS TO THE ORIGINAL SIGNED BY L. M. STEVENS | | | | | | | | | | | | |
| WITN | IESSED | | | | | | | | | | | |
| COMP | PANY | | | | | pmu | ARKS | | | | | |
| | | | | | | LL.M. | CALL | | | _ | | |



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_w) . MCF/da. @ 15.025 psia and 60° 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
- P_t Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- P_{f} Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}\mbox{\small I}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I 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 $P_{\mathbf{t}}$.