NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

| Poo] | BASIN | DAKOTA | | F | Cormation | | DAKOTA | | County | S an J | uan | | |
|---|--|-------------|---|-------|------------------|--------|--------------------------------------|--------------------|---|---------------|-------------|------|--|
| | | | | | Special_ | | | | | | | | |
| Company Beta Development Co. | | | | | | | | | | | | | |
| | , F S | | | | | | | | | | | | |
| Casing 4 1/2" Wt. 10.5 I.D. 4.052 Set at 6675 Perf. 6504 To 6594 | | | | | | | | | | | | | |
| Tubing 2 3/8" Wt. 4.70 I.D. 1.995 Set at 6581 Perf. Open To End | | | | | | | | | | | | | |
| Gas | Gas Pay: From 6504 To 6594 L 6581 xG 670 =GL Bar.Press. 12.0 | | | | | | | | | | | | |
| Producing Thru: Casing Tubing X Type Well Single - Gas Single-Bradenhead-G. G. or G.O. Dual | | | | | | | | | | | | | |
| Date | e of Complet | ion:_ | 7/10/6 | 4 | Packe | r | | Reservo | ir Temp. | | | | |
| | | | | | | OBSERV | ED DATA | | | | | | |
| Tested Through (Proper) (Choke) (Meter) | | | | | | | Type Taps | | | | | | |
| | (Prover) | | Flow Da (Choke) | | B. Diff. | Temp. | Tubing Press. | | Casing I | ata Temp. | Dura | tion | |
| No. | (Line) Size | منتم/ ا | ليسين | | g h _w | | Ī | } | psig | ł | of | Flow | |
| SI 1. | | 3/4" | | 331 | | 81 | 2012 | | 2010 | | 7 Days | | |
| 2. 3. | | 3/ | 4 | 331 | | | 331_ | 81 | 1110 | | 3 1358 | | |
| 4. | | | | | | | | | | | | | |
| 5. | | <u>L</u> ., | | | <u> </u> | L | <u></u> | <u></u> | <u> </u> | <u>.i</u> | <u> </u> | | |
| FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow | | | | | | | | | | | | | |
| No. | (24-Hou | | | | Fac | | ctor Factor | | | | | | |
| 1. | 12,3650 | | 1 | | 343 | 080 | +- | 9463 | | | 2 4,061 | | |
| 2. 3. | _ | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | |
| PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid Pc 2026 PC 4104.6 | | | | | | | | | | | | | |
| | P _w | | | | | | | P _w | | | 1258.8 | | |
| No. | Pt (psia) | Pt | F | Q | $(F_cQ)^2$ | (1 | $\left(\frac{c(2)^2}{c(3)^2}\right)$ | $P_{\mathbf{w}}^2$ | P _c -P _w ² | Ca | P. P. | Ľ | |
| 1. 2. 3. | | | | | | | | 1258,8 | 2645.8 | | | | |
| 3. | | | | | | | | | | | | | |
| 4. 5. | | | | | | | | | | | | | |
| Ábso | olute Potent | ial:_ | 5.3 | 348 | | MCFPD; | .n <u>.75</u> | | | | | | |
| | PANY RESS | Bet | a Deve | lopm | ont Co. | Fa | | Naw Maria | | | | | |
| AGE | VT and TITLE | Geo | 234 Petroleum Club Plaza, Farm George L. Hoffman, Production | | | | | gineer | | | | | |
| WIT | NESSEDPANY | H | H. McAnally El Paso Natural Gas Co. | | | | | | | | | | |
| COPI | | | raso N | VALUE | IL UES CO | RE | 4ARKS | | | | 664 COM. | | |

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 That Actual rate of flow at end of flow period at W. H. working pressure ($P_{\rm W}$). MCF/da. @ 15.025 psia and 600 F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- P_w 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.
- Fpv 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 $P_{\mathbf{t}}$.