## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

| PoolW                        | VILDCAT                                   |                  |                    | F           | ormatio                         | n PICT         | URED CLI                                | FFS                             | County   | RIO AR       | RTBA                                    |  |
|------------------------------|---|------------------|--------------------|-------------|---------------------------------|----------------|---|---------------------------------|--|--------------|---|--|
| Initial_                     | <u> </u>                                  |                  | _Annu              | al          |                                 | Spe            | cial                                    |                                 | Date of  | Test         | 7-9-56                                  |  |
| Company N                    | CRITIVE                                   | T PROD           | UCTIO              | N COR       | P                               | _Lease         |   | 8                               | We]  | Ll No        | 1-1                                     |  |
|                              |   |                  |                    |             |                                 |                |   |                                 |  |              |   |  |
| 4<br>Casing <b>7</b>         | 1-1/2<br>1-5/8 W                          | t.               | Ι.                 | .D.         |                                 | 33<br>et at 13 | 26 <sup>1</sup><br>44.5 <sup>1</sup> Pe | rf. 317                         | 2  | Тο           | 2006                                    |  |
|                              |   |                  |                    |             |                                 |                |   |                                 |  |              |   |  |
|                              |   |                  |                    |             |                                 |                |   |                                 |  |              |   |  |
|                              |   |                  |                    |             |                                 |                |   |                                 |  |              | ess. 12# psia                           |  |
| ate of (                     | g Thru:<br>Complet                        | Cas:<br>ion:     | ing<br>6-21-       | 56          | Pack                            | ubi.ng<br>er   | Sin                                     | Type We<br>gle-Brade<br>Reserve | elling<br>enhead-G.<br>oir Temp                  | G. or (      | G.O. Dual                               |  |
|                              |   |                  |                    |             |                                 |                | ÆD DATA                                 |                                 |  |              |   |  |
| ested Th                     | hrough                                    | 10.00            | <b>(C</b>          | Choke)      | forecer                         | saur m         | 7 days                                  |                                 | Type Tap   | )S           |   |  |
| (P)                          | (Proven)                                  |                  | ow Da              | ata         |                                 | Т              | Tubing                                  | ing Data                        | Casing I   | ata          | Duratio                                 |  |
| o• (1                        | Line)                                     | (Orifi<br>Siz    | ce)                | rress       | DIII                            | J              |   | 1 .                             | 1  | B .          | 0 773                                   |  |
|                              | Size                                      | 3/4              |                    | psig        | h <sub>w</sub>                  | °F.            | <del> </del>                            | °F.                             | <del>                                     </del> |              |   |  |
|                              | _   | 3/4              |                    | 151         |                                 | 50             | 997<br>151                              |                                 | 997<br><b>686</b>                                |              | 3 Fra.                                  |  |
|                              |   |                  |                    |             | <u> </u>                        |                |   | -                               |  |              |   |  |
|                              |   |                  |                    |             |                                 | <del> </del>   | <del> </del>                            | <del> </del>                    |  |              | <del> </del>                            |  |
| )                            | Coefficient<br>(24-Hour) √ h <sub>w</sub> |                  | / h <sub>w</sub> p |             |                                 | Flow           | tor                                     | Gravity                         | Compress. Factor                                 |              | Rate of Flow<br>Q-MCFPD<br>@ 15.025 psi |  |
| 12.36                        | 550                                       |                  |                    |             | 63                              | 1.0098         |   | 393                             | 1.018  |              | 1946                                    |  |
| 12.36                        | <del></del>                               |                  | <del></del>        |             |                                 |                |   |                                 |  |              |   |  |
| :                            |   |                  |                    | -+          | <del></del>                     |                |   |                                 |  |              |   |  |
| Liquid                       | Liquid                                    | l Hydro          | carbo              | ns<br>-e-s) |                                 | cf/bbl.deg.    |   | Speci<br>Speci                  |  |              | rator Gas<br>ving Fluid<br><b>8.1</b>   |  |
| P <sub>w</sub>               |   | Pt <sup>2</sup>  | Fc                 | Q           | (F <sub>c</sub> Q) <sup>2</sup> | (F             | (cQ) <sup>2</sup><br>-e-s)              | <b>698</b><br>P <sub>w</sub> 2  | $P_c^2 - P_w^2$                                  | Ca           | P <sub>W</sub> P <sub>C</sub>           |  |
|                              | psia)                                     |                  |                    |             |                                 | (1             |   | 37.2                            | 530.9  | F            | P <sub>C</sub>                          |  |
|                              |   |                  | -                  |             |                                 |                |   |                                 |  |              |   |  |
|                              |   |                  |                    |             |                                 |                |   |                                 |  | <del> </del> |   |  |
| solute<br>MPANY N<br>DRESS 4 | O5 W.                                     | t Prod<br>Broads | uction<br>ay Pa    | raing       | oration                         | Mexico         | ,85 = 1.                                | .7410                           |  |              |   |  |
| ENT and                      | TITLE                                     | . R. W           | ACINER             | , GAS       | ENGINEE                         | R              |   |                                 |  |              |   |  |
| MPANY                        |   |                  |                    | <b></b>     |                                 |                |   |                                 |  | COPT         |   |  |
|                              |   |                  |                    |             |                                 | REM            | ARKS                                    |                                 | 1  | וין ויין     |   |  |

## 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
- Pwi 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- $F_g$ : Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{pv}$  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  $P_t$ .

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