

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY & MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form O-122  
Revised 10-1-78

## MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

|                                                                                                                      |  |                                                 |  |                               |  |
|----------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------|--|-------------------------------|--|
| Test at <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  | Test Date<br>4-18-85                            |  | MAY 09 1985                   |  |
| Company<br>Consolidated Oil & Gas, Inc.                                                                              |  | Production<br>Northwest Pipeline Corp.          |  | OIL CON. DIV.<br>DIST. 3      |  |
| Well<br>Tropicito Gallup ext.                                                                                        |  | Location<br>Gallup                              |  | Unit<br>3-E                   |  |
| Completion Date<br>2-3-85                                                                                            |  | Total Depth<br>1040                             |  | Perforated Depth<br>7023 (FC) |  |
| Casing Size<br>15.5"                                                                                                 |  | Casing Weight<br>4.050                          |  | Casing Pressure<br>1037       |  |
| Tubing Size<br>2.563                                                                                                 |  | Tubing Weight<br>3.254                          |  | Tubing Pressure<br>1007       |  |
| Dual Gas                                                                                                             |  | Perforated Depth<br>7420                        |  | Country<br>Rio Arriba         |  |
| Flowing Temp<br>172° / 118                                                                                           |  | Flowing Pressure<br>172° / 118                  |  | State<br>N.M.                 |  |
| L H                                                                                                                  |  | CO <sub>2</sub> N <sub>2</sub> H <sub>2</sub> S |  | Water Run                     |  |
|                                                                                                                      |  |                                                 |  | Date Flow                     |  |

  

| FLOW DATA |                 |               |               |                      | PLUGGING DATA |               | CASING DATA |               | Direction of Flow |
|-----------|-----------------|---------------|---------------|----------------------|---------------|---------------|-------------|---------------|-------------------|
| NO.       | Order Line Size | Critical Size | Perfor. Depth | Diff. h <sub>w</sub> | Temp. °F      | Perfor. Depth | Temp. °F    | Perfor. Depth |                   |
| 1.        | 7 days          |               |               |                      |               | 903           | 100 F       | 1116          | 60                |
| 2.        | 2 x 3/4"        |               |               |                      |               | 115           |             | 321           | 3 hrs.            |
| 3.        |                 |               |               |                      |               |               |             |               |                   |
| 4.        |                 |               |               |                      |               |               |             |               |                   |
| 5.        |                 |               |               |                      |               |               |             |               |                   |

  

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                       |                   |                              |                      |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------|------------------------------|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor Ft. | Gravity Factor Fg | Super. Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1.                        | 9.453                 |                  | 86                      | 1.008                 | 1.240             | 1.000                        | 1014                 |
| 2.                        |                       |                  |                         |                       |                   |                              |                      |
| 3.                        |                       |                  |                         |                       |                   |                              |                      |
| 4.                        |                       |                  |                         |                       |                   |                              |                      |
| 5.                        |                       |                  |                         |                       |                   |                              |                      |

  

| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio          | Mcft/lbl. |
|-----|----------------|----------|----------------|---|---------------------------------------|-----------|
| 1.  |                |          |                |   | A.P.L. Gravity of Liquid Hydrocarbons | Deg.      |
| 2.  |                |          |                |   | Specific Gravity Gas                  | XXXXXX    |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid        | XXXXXX    |
| 4.  |                |          |                |   | Critical Pressure                     | P.S.I.A.  |
| 5.  |                |          |                |   | Critical Temperature                  | R         |

  

| NO. | P <sub>r</sub> | P <sub>w</sub> | P <sub>c</sub> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ |
|-----|----------------|----------------|----------------|-----------------------------------------------------------|-------------------------------------|------------------------------------------------------|
| 1.  | 1158           | 333            | 1140.964       | 110889                                                    | 1.0901                              | 1.0667                                               |
| 2.  |                |                |                |                                                           |                                     |                                                      |
| 3.  |                |                |                |                                                           |                                     |                                                      |
| 4.  |                |                |                |                                                           |                                     |                                                      |
| 5.  |                |                |                |                                                           |                                     |                                                      |

  

| NO. | ACF = Q | $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ |
|-----|---------|--------------------------------------------------|
| 1.  | 1082    | 1082                                             |
| 2.  |         |                                                  |
| 3.  |         |                                                  |
| 4.  |         |                                                  |
| 5.  |         |                                                  |

  

|                                |      |                                  |                |             |
|--------------------------------|------|----------------------------------|----------------|-------------|
| Absolute Open Flow             | 1082 | Mcfd @ 15.025                    | Angle of Slope | Slope, n    |
| Remarks:                       |      |                                  |                |             |
| Approved By Division           |      |                                  |                |             |
| Conducted By:<br>Richard Housh |      | Calculated By:<br>Neil Tefteller |                | Checked By: |