

NEW EXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-65

RECEIVED

OCT 15 1968

|                                                                                                                           |                              |                                   |                             |                                                           |                                                            |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------|-----------------------------|-----------------------------------------------------------|------------------------------------------------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                              |                                   |                             | Test Date<br>9-25-68                                      |                                                            |
| Company<br>David Fasken ✓                                                                                                 |                              |                                   |                             | Connection<br>None                                        |                                                            |
| Pool<br>Undesignated                                                                                                      |                              |                                   |                             | Formation<br>Morrow                                       |                                                            |
| Completion Date<br>9-25-68                                                                                                |                              | Total Depth<br>9860               |                             | Plug Back TD<br>9830                                      |                                                            |
|                                                                                                                           |                              |                                   |                             | Elevation<br>3990 KB                                      |                                                            |
| Csg. Size<br>4 1/2                                                                                                        |                              | Wt.<br>11.6                       |                             | Set At<br>9860                                            |                                                            |
| Thg. Size<br>2 3/8                                                                                                        |                              | Wt.<br>4.7                        |                             | Set At<br>9532                                            |                                                            |
|                                                                                                                           |                              |                                   |                             | Perforations:<br>From 9539 To 9780                        |                                                            |
|                                                                                                                           |                              |                                   |                             | Perforations:<br>From        To                           |                                                            |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |                              |                                   |                             | Packer Set At<br>None                                     |                                                            |
| Producing Thru<br>Tubing                                                                                                  |                              | Reservoir Temp. °F<br>172 @ 9460  |                             | Mean Annual Temp. °F<br>60                                |                                                            |
|                                                                                                                           |                              |                                   |                             | Baro. Press. - P <sub>a</sub><br>13.2                     |                                                            |
| L<br>9660                                                                                                                 |                              | H<br>9660                         |                             | Prover<br>2"                                              |                                                            |
| Gg<br>0.600                                                                                                               |                              | % CO <sub>2</sub>                 |                             | % N <sub>2</sub>                                          |                                                            |
|                                                                                                                           |                              |                                   |                             | % H <sub>2</sub> S                                        |                                                            |
|                                                                                                                           |                              |                                   |                             | Meter Run                                                 |                                                            |
|                                                                                                                           |                              |                                   |                             | Taps                                                      |                                                            |
| FLOW DATA                                                                                                                 |                              |                                   |                             | TUBING DATA                                               |                                                            |
| CASING DATA                                                                                                               |                              |                                   |                             | Duration of Flow                                          |                                                            |
| NO.                                                                                                                       | Prover Line Size             | X                                 | Orifice Size                | Press. p.s.i.g.                                           | Diff. h <sub>w</sub>                                       |
| SI                                                                                                                        | 165 hours                    |                                   |                             |                                                           |                                                            |
| 1.                                                                                                                        | 2"                           | 1/16                              | 2820                        | 60                                                        | 2820                                                       |
| 2.                                                                                                                        | 2"                           | 3/32                              | 2690                        | 60                                                        | 2690                                                       |
| 3.                                                                                                                        | 2"                           | 1/8                               | 2480                        | 60                                                        | 2480                                                       |
| 4.                                                                                                                        | 2"                           | 7/32                              | 1710                        | 60                                                        | 1710                                                       |
| 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 F <sub>g</sub>                              |
| 1                                                                                                                         | 0.06405                      |                                   | 2833.2                      | 1.000                                                     | 1.291                                                      |
| 2                                                                                                                         | 0.1410                       |                                   | 2703.2                      | 1.000                                                     | 1.291                                                      |
| 3                                                                                                                         | 0.2648                       |                                   | 2493.2                      | 1.000                                                     | 1.291                                                      |
| 4                                                                                                                         | 0.8393                       |                                   | 1723.2                      | 1.000                                                     | 1.291                                                      |
| 5                                                                                                                         |                              |                                   |                             |                                                           |                                                            |
| NO.                                                                                                                       | P <sub>r</sub>               | Temp. °R                          | T <sub>r</sub>              | Z                                                         | Gas Liquid Hydrocarbon Ratio Mcf/bbl.                      |
| 1                                                                                                                         | 4.222                        | 520                               | 1.45                        | 0.752                                                     | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.           |
| 2                                                                                                                         | 4.029                        | 520                               | 1.45                        | 0.747                                                     | Specific Gravity Separator Gas _____                       |
| 3                                                                                                                         | 3.716                        | 520                               | 1.45                        | 0.741                                                     | Specific Gravity Flowing Fluid _____                       |
| 4                                                                                                                         | 2.568                        | 520                               | 1.45                        | 0.762                                                     | Critical Pressure _____ P.S.I.A.                           |
| 5                                                                                                                         | Critical Temperature _____ R |                                   |                             |                                                           |                                                            |
| $P_r^2 - P_w^2$ 3622.2 $P_r^2 - P_s^2$ 13120 $P_r^2 - P_g^2$ 488                                                          |                              |                                   |                             |                                                           |                                                            |
| NO.                                                                                                                       | P <sub>r</sub> <sup>2</sup>  | P <sub>s</sub> <sup>2</sup>       | P <sub>g</sub> <sup>2</sup> | P <sub>r</sub> <sup>2</sup> - P <sub>g</sub> <sup>2</sup> | (1) $\frac{P_r^2}{P_r^2 - P_w^2} =$ _____                  |
| 1                                                                                                                         |                              | 3554.2                            | 12632                       | 488                                                       | (2) $\left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$ _____ |
| 2                                                                                                                         |                              | 3408.2                            | 11616                       | 1504                                                      |                                                            |
| 3                                                                                                                         |                              | 3142.2                            | 9873                        | 3247                                                      |                                                            |
| 4                                                                                                                         |                              | 2341.2                            | 5481                        | 7639                                                      |                                                            |
| 5                                                                                                                         |                              |                                   |                             |                                                           |                                                            |
| Absolute Open Flow    3350    Mcfd @ 15.025                                                                               |                              |                                   |                             | Angle of Slope @    50° 45'                               |                                                            |
|                                                                                                                           |                              |                                   |                             | Slope, n    0.8167                                        |                                                            |
| Remarks: BHP measured with Amerada RPG-3 Pressure Gauge                                                                   |                              |                                   |                             |                                                           |                                                            |
| Approved By Commission:                                                                                                   |                              | Conducted By:<br>Teffteller, Inc. |                             | Calculated By:<br>Farrest Teffteller                      |                                                            |
|                                                                                                                           |                              |                                   |                             | Checked By:                                               |                                                            |