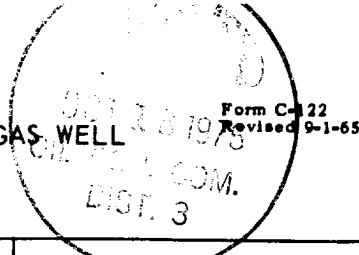


NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



|                                                                                                                           |             |                                 |                          |                                     |                           |                                       |                  |                                    |  |
|---------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------|--------------------------|-------------------------------------|---------------------------|---------------------------------------|------------------|------------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |             |                                 |                          |                                     |                           | Test Date<br>10-7-76                  |                  |                                    |  |
| Company<br>Chace Oil Company                                                                                              |             |                                 |                          | Connection<br>Waiting on Pipeline   |                           |                                       |                  |                                    |  |
| Pool<br>Undesignated                                                                                                      |             |                                 |                          | Formation<br>Chacra                 |                           |                                       |                  | Unit                               |  |
| Completion Date<br>8-27-76                                                                                                |             | Total Depth<br>1808'            |                          | Plug Back TD<br>1743'               |                           | Elevation<br>6773 GR                  |                  | Farm or Lease Name<br>Rusty Navajo |  |
| Csg. Size<br>4.500                                                                                                        | Wt.<br>9.50 | d<br>4.090                      | Set At<br>1806           | Perforations:<br>From 1515 To 1731  |                           |                                       |                  | Well No.<br>4                      |  |
| Tbg. Size<br>1.900                                                                                                        | Wt.<br>2.90 | d<br>1.610                      | Set At<br>1733           | Perforations:<br>From open To ended |                           |                                       |                  | Unit Sec. Twp. Rge.<br>F 26 22N 7W |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |             |                                 |                          |                                     |                           | Packer Set At<br>None                 |                  | County<br>Sandoval                 |  |
| Producing Thru<br>tubing                                                                                                  |             | Reservoir Temp. °F<br>92 @ 1808 |                          | Mean Annual Temp. °F<br>----        |                           | Baro. Press. - P <sub>a</sub><br>12.0 |                  | State<br>New Mexico                |  |
| L<br>1733                                                                                                                 | H<br>1733   | Gg<br>0.600                     | % CO <sub>2</sub><br>--- | % N <sub>2</sub><br>---             | % H <sub>2</sub> S<br>--- | Prover<br>---                         | Meter Run<br>--- | Taps<br>---                        |  |

| FLOW DATA |                  |   |              |                 |          |          | TUBING DATA     |          | CASING DATA     |          | Duration of Flow |
|-----------|------------------|---|--------------|-----------------|----------|----------|-----------------|----------|-----------------|----------|------------------|
| NO.       | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. hw | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F |                  |
| SI        |                  |   |              |                 |          |          | 410             |          | 450             |          | 7 day            |
| 1.        |                  |   |              |                 |          | 60       | 15              |          | 195             |          |                  |
| 2.        |                  |   |              |                 |          |          |                 |          |                 |          |                  |
| 3.        |                  |   |              |                 |          |          |                 |          |                 |          |                  |
| 4.        |                  |   |              |                 |          |          |                 |          |                 |          |                  |

| 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                         | 12.3650               |                  | 27                      | 1.0000                | 1.0000            | 1.0000                      | 334                  |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

| NO. | P <sub>t</sub> | Temp. °R | T <sub>f</sub> | Z | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.      |
|-----|----------------|----------|----------------|---|--------------------------------------------------|
| 1.  |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. |
| 2.  |                |          |                |   | Specific Gravity Separator Gas _____ XXXXXXXXXX  |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid _____ XXXXX       |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.  |
| 5.  |                |          |                |   | Critical Temperature _____ R _____ R             |

| P <sub>c</sub> 462 | P <sub>c</sub> <sup>2</sup> 213,444 |                |                             |                                                           |                                            |                                                             |
|--------------------|-------------------------------------|----------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------|
| NO.                | P <sub>t</sub> <sup>2</sup>         | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2511$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2098$ |
| 1                  |                                     | 207            | 42,849                      | 170,595                                                   |                                            |                                                             |
| 2                  |                                     |                |                             |                                                           |                                            |                                                             |
| 3                  |                                     |                |                             |                                                           |                                            |                                                             |
| 4                  |                                     |                |                             |                                                           |                                            |                                                             |
| 5                  |                                     |                |                             |                                                           |                                            |                                                             |

$$AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 404$$

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|                         |     |               |                                  |               |
|-------------------------|-----|---------------|----------------------------------|---------------|
| Absolute Open Flow      | 404 | Mcfd @ 15.025 | Angle of Slope @                 | Slope, n 0.85 |
| Remarks:                |     |               |                                  |               |
|                         |     |               |                                  |               |
| Approved By Commission: |     | Conducted By: | Calculated By:<br>Ewell N. Walsh | Checked By:   |