

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

Form C-122  
Revised 9-1-65

| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |                             |                         |                             |   |  | Test Date<br>10-15-74                 |   |                                       |                 |                  |                  |   |  |  |  |
|---|-----------------------------|-------------------------|-----------------------------|---|--|---------------------------------------|---|---------------------------------------|-----------------|------------------|------------------|---|--|--|--|
| Company<br>Marathon Oil Company   |                             |                         |                             | Connection  |  |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| Pool  |                             |                         |                             | Formation<br>Fruitland                                    |  |                                       |   | Unit                                  |                 |                  |                  |   |  |  |  |
| Completion Date   |                             | Total Depth             |                             | Plug Back TD<br>1754                                      |  | Elevation                             |   | Farm or Lease Name<br>Ohio "B" McCord |                 |                  |                  |   |  |  |  |
| Csg. Size<br>4 3/4  | Wt.<br>16.0                 | d                       | Set At<br>1798              | Perforations:<br>From 1438 To 1448                        |  | Well No.<br>1                         |   |                                       |                 |                  |                  |   |  |  |  |
| Tog. Size<br>2 3/8  | Wt.                         | d                       | Set At<br>1630              | Perforations:<br>From To                                  |  | Unit Sec. Twp. Rge.<br>0 23 28N 11W   |   |                                       |                 |                  |                  |   |  |  |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Dual gas   |                             |                         |                             | Packer Set At<br>1630                                     |  | County<br>San Juan                    |   |                                       |                 |                  |                  |   |  |  |  |
| Producing Thru  |                             | Reservoir Temp. *F<br>@ |                             | Mean Annual Temp. *F                                      |  | Baro. Press. - P <sub>a</sub><br>12.0 |   | State<br>New Mexico                   |                 |                  |                  |   |  |  |  |
| L   | H                           | Gg                      | % CO <sub>2</sub>           | % N <sub>2</sub>  | % H <sub>2</sub> S                                     | Prover                                | 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>                                   | Temp. *F                              | Press. p.s.i.g.   | Temp. *F                              | Press. p.s.i.g. | Temp. *F         | Duration of Flow |   |  |  |  |
| 1.  | 2                           | X                       | 3/4                         |   |  |                                       | Pkr   |                                       | 542             |                  | 3 hrs.           |   |  |  |  |
| 2.  |                             |                         |                             |   |  |                                       | Pkr   |                                       | 56              | 60               |                  |   |  |  |  |
| 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.  | 12.3650                     |                         | 68                          | 1.0000  | 9608   |                                       | 804   |                                       |                 |                  |                  |   |  |  |  |
| 2.  |                             |                         |                             |   |  |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| 3.  |                             |                         |                             |   |  |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| 4.  |                             |                         |                             |   |  |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| 5.  |                             |                         |                             |   |  |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| NO.   | P <sub>t</sub>              | Temp. *R                | T <sub>r</sub>              | Z   | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.            |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| 1.  |                             |                         |                             |   | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.       |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| 2.  |                             |                         |                             |   | Specific Gravity Separator Gas _____ X X X X X X X X X |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| 3.  |                             |                         |                             |   | Specific Gravity Flowing Fluid _____ X X X X X         |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| 4.  |                             |                         |                             |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.        |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| 5.  |                             |                         |                             |   | Critical Temperature _____ R _____ R                   |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| P <sub>c</sub> 554      P <sub>c</sub> <sup>2</sup> 306916  |                             |                         |                             |   |  |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| 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) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0153$             |                                       | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0129$ |                                       |                 |                  |                  |   |  |  |  |
| 1.  |                             | 68                      | 4624                        | 302292  |  |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| 2.  |                             |                         |                             |   |  |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| 3.  |                             |                         |                             |   |  |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| 4.  |                             |                         |                             |   |  |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| 5.  |                             |                         |                             |   |  |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| Absolute Open Flow 814 Mcfd @ 15.025  |                             |                         |                             |   | Angle of Slope $\theta$ _____ Slope, n .85             |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| Remarks:  |                             |                         |                             |   |  |                                       |   |                                       |                 |                  |                  |   |  |  |  |
| Approved By Commission:   |                             |                         |                             | Conducted By:<br>Tefteller, Inc.                          |  |                                       |   | Calculated By:<br>N. Tefteller        |                 |                  |                  | Checked By:<br>P.J. Patterson 11/25/74<br>MARATHON OIL Co |  |  |  |

