

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

Form C-122  
Revised 9-1-65

|                                                                                                                        |            |                               |                        |                                  |                        |                                      |                                 |                                      |  |
|------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------|------------------------|----------------------------------|------------------------|--------------------------------------|---------------------------------|--------------------------------------|--|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |            |                               |                        |                                  |                        | Test Date: 9/6/78                    |                                 |                                      |  |
| Company: Dave M. Thomas, Jr.                                                                                           |            |                               |                        | Connection: Waiting on Pipeline  |                        |                                      |                                 |                                      |  |
| Pool: Ballard P.C.                                                                                                     |            |                               |                        | Formation: Pictured Cliffs       |                        |                                      |                                 | Unit:                                |  |
| Completion Date: 8/18/78                                                                                               |            | Total Depth: 3212'            |                        | Plug Back TD: 3172'              |                        | Elevation: 7334' KB                  |                                 | Farm or Lease Name: Chacon Jicarilla |  |
| Csg. Size: 4.500                                                                                                       | Wt.: 10.50 | d: 4.052                      | Set At: 3212           | Perforations: From 3124 To 3168  |                        |                                      | Well No.: 12                    |                                      |  |
| Thg. Size: 1.660                                                                                                       | Wt.: 2.40  | d: 1.380                      | Set At: 3097           | Perforations: From Open To Ended |                        |                                      | Unit: A Sec: 9 Twp: 23N Rge: 3W |                                      |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single                                                        |            |                               |                        |                                  |                        | Packer Set At: None                  |                                 | County: Rio Arriba                   |  |
| Producing Thru Tubing                                                                                                  |            | Reservoir Temp. °F: 84 @ 3212 |                        | Mean Annual Temp. °F: 60         |                        | Baro. Press. - P <sub>a</sub> : 12.0 |                                 | State: New Mexico                    |  |
| L: 3097                                                                                                                | H: 3097    | Gg: 0.600                     | % 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         |        |
| SI        |                  |   |              |                 |                      |             | 850             |             | 850             |                  | 8 days |
| 1.        | 3/4" THC         |   |              |                 |                      |             | 50              | 60          | 350             |                  | 3 hrs. |
| 2.        |                  |   |              |                 |                      |             |                 |             |                 |                  |        |
| 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               |                  | 62                      | 1.0000                | 1.0000            | 1.0000                      | 767                  |
| 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 |
| 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> 862 | P <sub>c</sub> <sup>2</sup> 743,044 | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1,2141}{}$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1,1792}{}$ |
| NO.                | P <sub>t</sub> <sup>2</sup>         | P <sub>w</sub>                                      | P <sub>w</sub> <sup>2</sup>                                          |
| 1                  |                                     | 362                                                 | 131,044                                                              |
| 2                  |                                     |                                                     |                                                                      |
| 3                  |                                     |                                                     |                                                                      |
| 4                  |                                     |                                                     |                                                                      |
| 5                  |                                     |                                                     |                                                                      |

  

|                                            |  |                            |                               |
|--------------------------------------------|--|----------------------------|-------------------------------|
| Absolute Open Flow 905 _____ Mcfd @ 15.025 |  | Angle of Slope e _____     | Slope, n 0.85                 |
| Remarks: _____                             |  |                            |                               |
| Approved By Commission:                    |  | Conducted By: Roger McCown | Calculated By: Ewell N. Walsh |
|                                            |  |                            | Checked By:                   |