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State of New Mexico  
Energy, Minerals and Natural Resources Department

c15F  
Form C-122  
Revised 4-1-91

**OIL CONSERVATION DIVISION**  
2040 Pacheco St.  
Santa Fe, NM 87505

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

|                                                                                                                        |  |                                         |  |                                                  |  |                                           |  |
|------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------|--|--------------------------------------------------|--|-------------------------------------------|--|
| Operator <b>DEVON ENERGY CORPORATION (NEVADA)</b>                                                                      |  |                                         |  | Lease or Unit Name <b>AVALON 15C STATE COMM.</b> |  |                                           |  |
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                                         |  | Test Date <b>12-13-97</b>                        |  | Well No. <b>STATE #1</b>                  |  |
| Completion Date <b>WOPL 02-16-98</b>                                                                                   |  | Total Depth <b>11,110'</b>              |  | Plug Back TD <b>10,835'</b>                      |  | Elevation <b>GL 3192'</b>                 |  |
| Csg. Size <b>5.000</b>                                                                                                 |  | Wt. <b>.0</b>                           |  | Set At <b>17.000</b>                             |  | Perforations: <b>10,740-10,770'</b>       |  |
| Tbg. Size <b>2.000</b>                                                                                                 |  | Wt. <b>.0</b>                           |  | Set At <b>4.700</b>                              |  | From: <b>0.</b> To: <b>0.</b>             |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple                                                                |  |                                         |  | Packer Set At <b>0.</b>                          |  | Formation <b>Morrow</b>                   |  |
| Producing Thru                                                                                                         |  | Reservoir Temp. °F <b>195. @ 10755.</b> |  | Mean Annual Temp. °F <b>60.0</b>                 |  | Baro. Press. - P <sub>a</sub> <b>13.2</b> |  |
| L <b>10755.</b>                                                                                                        |  | H <b>10755.</b>                         |  | G <sub>g</sub> <b>.583</b>                       |  | % CO <sub>2</sub> <b>.89</b>              |  |
|                                                                                                                        |  |                                         |  | % N <sub>2</sub> <b>.58</b>                      |  | % H <sub>2</sub> S <b>.00</b>             |  |
|                                                                                                                        |  |                                         |  | Prover <b>.0</b>                                 |  | Meter Run <b>4.0</b>                      |  |
|                                                                                                                        |  |                                         |  |                                                  |  | Taps <b>FLANGE</b>                        |  |

| 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        |                  |   |              |                 |                      |             | 3458.           | 60.         |                 | 24.0             |
| 1.        | 4.03             | X | 2.000        | 294.            | 10.0                 | 75.         | 3238.           | 74.         | 0.              | 0.               |
| 2.        | 4.03             | X | 2.000        | 294.            | 13.0                 | 81.         | 3202.           | 75.         | 0.              | 0.               |
| 3.        | 4.03             | X | 2.000        | 302.            | 59.0                 | 49.         | 3032.           | 76.         | 0.              | 0.               |
| 4.        | 4.03             | X | 2.000        | 302.            | 85.0                 | 40.         | 3002.           | 74.         | 0.              | 0.               |
| 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> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1.                        | 19.81                 | 55.43            | 307.2                   | .9859                 | 1.3097                        | 1.0221                                  | 1449.                |
| 2.                        | 19.81                 | 63.19            | 307.2                   | .9804                 | 1.3097                        | 1.0212                                  | 1642.                |
| 3.                        | 19.81                 | 136.37           | 315.2                   | 1.0107                | 1.3097                        | 1.0273                                  | 3674.                |
| 4.                        | 19.81                 | 163.68           | 315.2                   | 1.0198                | 1.3097                        | 1.0291                                  | 4458.                |
| 5.                        |                       |                  |                         |                       |                               |                                         |                      |

| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z    | Gas Liquid Hydrocarbon Ratio | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
|-----|----------------|----------|----------------|------|------------------------------|-----------------------------------------|----------------------|
| 1.  | .45            | 535.     | 1.53           | .957 | .0                           | 1.0221                                  | 1449.                |
| 2.  | .45            | 541.     | 1.55           | .959 | .0                           | 1.0212                                  | 1642.                |
| 3.  | .47            | 509.     | 1.45           | .948 | .583                         | 1.0273                                  | 3674.                |
| 4.  | .47            | 500.     | 1.43           | .944 | .583                         | 1.0291                                  | 4458.                |
| 5.  |                |          |                |      |                              |                                         |                      |

| P <sub>c</sub> <b>3471.2</b> | P <sub>c</sub> <sup>2</sup> <b>12049.</b> |                |                             |                                                           |                                           |                                                            |  |
|------------------------------|-------------------------------------------|----------------|-----------------------------|-----------------------------------------------------------|-------------------------------------------|------------------------------------------------------------|--|
| NO.                          | P <sub>c</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) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.2532$ | 2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.2532$ |  |
| 1.                           | 10570.                                    | 3240.          | 10500.                      | 1549.                                                     |                                           |                                                            |  |
| 2.                           | 10338.                                    | 3204.          | 10267.                      | 1782.                                                     |                                           |                                                            |  |
| 3.                           | 9273.                                     | 3052.          | 9317.                       | 2732.                                                     |                                           |                                                            |  |
| 4.                           | 9091.                                     | 3036.          | 9216.                       | 2833.                                                     |                                           |                                                            |  |
| 5.                           |                                           |                |                             |                                                           |                                           |                                                            |  |

|                                  |               |                                     |                       |
|----------------------------------|---------------|-------------------------------------|-----------------------|
| Absolute Open Flow <b>18959.</b> | Mcfd @ 15.025 | Angle of Slope $\theta$ <b>45.0</b> | Slope, n <b>1.000</b> |
|----------------------------------|---------------|-------------------------------------|-----------------------|

Remarks:

Approved By Division

Conducted By: Well Testing  
Wireline Services Co.

Calculated By: Well Testing  
Wireline Services Co.

WALTER M. FRANK

DEVON ENERGY CORPORATION