

**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>12-2-75 |                       |
| Company<br>Dugan Production Corp.                                                                                         |             |                         |                   | Connection                           |                      |                       |
| Pool<br>Wildcat                                                                                                           |             |                         |                   | Formation<br>Pictured Cliffs         |                      | Unit                  |
| Completion Date<br>6-29-75                                                                                                |             | Total Depth<br>1175' GR |                   | Plug Back TD<br>1140' GR             |                      | Elevation<br>5996' GR |
| Farm or Lease Name<br>Mike                                                                                                |             | Well No.<br>1           |                   |                                      |                      |                       |
| Csg. Size<br>2-7/8"                                                                                                       | Wt.<br>6.4# | d<br>                   | Set At<br>1168'   | Perforations:<br>From 1091' To 1105' |                      |                       |
| Tbg. Size<br>1-1/4"                                                                                                       | Wt.<br>2.4# | d<br>                   | Set At<br>        | Perforations:<br>From Open Ended To  |                      |                       |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single - Gas                                                   |             |                         |                   | Packer Set At                        |                      | County<br>San Juan    |
| Producing Thru<br>Tubing                                                                                                  |             | Reservoir Temp. °F<br>@ |                   | Mean Annual Temp. °F                 |                      | State<br>New Mexico   |
| L                                                                                                                         | H           | Gg<br>.62               | % 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         |
| 1         |                  |   |              |                 |                      |             | 232             |             | 232             |                  |
| 2         |                  |   |              |                 |                      |             |                 |             |                 |                  |
| 3         | 5/8" Pos Choke   |   |              |                 |                      | 56°         |                 |             | 21              |                  |
| 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                         |                       |                  |                         |                       |                   |                             |                      |
| 2                         |                       |                  |                         |                       |                   |                             |                      |
| 3                         | 8.5417                |                  | 15                      | 1.004                 | .9837             | 1.000                       | 126                  |
| 4                         |                       |                  |                         |                       |                   |                             |                      |
| 5                         |                       |                  |                         |                       |                   |                             |                      |

  

|     |                |          |                |   |                                                      |
|-----|----------------|----------|----------------|---|------------------------------------------------------|
| NO. | P <sub>r</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>r</sub> 244 | P <sub>c</sub> <sup>2</sup> 59,536 | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0198$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0169$ |
| NO.                | P <sub>r</sub> <sup>2</sup>        | P <sub>w</sub>                             | P <sub>w</sub> <sup>2</sup>                                 |
| 1                  |                                    |                                            |                                                             |
| 2                  |                                    |                                            |                                                             |
| 3                  |                                    | 34                                         | 1156                                                        |
| 4                  |                                    |                                            |                                                             |
| 5                  |                                    |                                            |                                                             |

  

|                                      |  |                         |
|--------------------------------------|--|-------------------------|
| Absolute Open Flow 128 Mcfd @ 15.025 |  | Angle of Slope $\theta$ |
| Remarks:                             |  |                         |

  

|                         |                               |                                |             |
|-------------------------|-------------------------------|--------------------------------|-------------|
| Approved By Commission: | Conducted By:<br>Charles Hall | Calculated By:<br>Charles Hall | Checked By: |
|-------------------------|-------------------------------|--------------------------------|-------------|

