

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

Form C-122  
Revised 9-1-65

RECEIVED  
OIL FIELD

|                                                                                                                        |             |                               |                   |                                    |                    |                                   |           |                                  |  |
|------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------|-------------------|------------------------------------|--------------------|-----------------------------------|-----------|----------------------------------|--|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |             |                               |                   |                                    |                    | Test Date 8-25-69                 |           |                                  |  |
| Company<br>Caulkins Oil Company                                                                                        |             |                               |                   | Connection                         |                    |                                   |           |                                  |  |
| Pool<br>Basin Dakota                                                                                                   |             |                               |                   | Formation<br>Dakota                |                    |                                   |           | Unit<br>Basin                    |  |
| Completion Date<br>8-5-69                                                                                              |             | Total Depth<br>7560           |                   | Plug Back TD<br>7530               |                    | Elevation<br>6536 DF              |           | Farm or Lease Name<br>Breech "E" |  |
| Csg. Size<br>4 1/2"                                                                                                    | Wt.<br>10.5 | d<br>11.6                     | Set At<br>4.000   | Perforations:<br>From 7208 To 7484 |                    | Well No.<br>68                    |           |                                  |  |
| Tbg. Size<br>2.375                                                                                                     | Wt.<br>4.7  | d<br>1.995                    | Set At<br>7360    | Perforations:<br>From To 7360      |                    | Unit Sec. Twp. Rge.<br>F 4 26N 6W |           |                                  |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single gas                                                  |             |                               |                   |                                    |                    | Packer Set At<br>None             |           | County<br>Rio Arriba             |  |
| Producing Thru<br>Tubing                                                                                               |             | Reservoir Temp. °F<br>185@ TD |                   | Mean Annual Temp. °F               |                    | Baro. Press. - P <sub>a</sub>     |           | State<br>New Mexico              |  |
| L                                                                                                                      | H           | Gg                            | % CO <sub>2</sub> | % N <sub>2</sub>                   | % H <sub>2</sub> S | Prover                            | Meter Run | Taps<br>Pipe                     |  |

  

| 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. |                  |
| SI        | 14 days          |   |              |                 |          |             | 2104            |             | 2143            |                  |
| 1.        |                  |   |              |                 |          |             | 471             | 60          | 1510            | 60               |
| 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                         | 14.1605               |                  | 483                     | 1.000                | 1.000             | 1.044                       | 7141                 |
| 2.                        |                       |                  |                         |                      |                   |                             |                      |
| 3.                        |                       |                  |                         |                      |                   |                             |                      |
| 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                 |

  

|     |                             |                             |                             |                                                           |                                          |                                                             |
|-----|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------|------------------------------------------|-------------------------------------------------------------|
| NO. | P <sub>t</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.99$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6754$ |
| 1   |                             | 1522                        | 2,316                       | 2,328                                                     |                                          |                                                             |
| 2   |                             |                             |                             |                                                           |                                          |                                                             |
| 3   |                             |                             |                             |                                                           |                                          |                                                             |
| 4   |                             |                             |                             |                                                           |                                          |                                                             |
| 5   |                             |                             |                             |                                                           |                                          |                                                             |

  

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 11,964$

Absolute Open Flow \_\_\_\_\_ Mcfd @ 15.025

Angle of Slope @ \_\_\_\_\_

Slope, n 75

  

Remarks: \_\_\_\_\_

  

|                         |               |                |             |
|-------------------------|---------------|----------------|-------------|
| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|-------------------------|---------------|----------------|-------------|