

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>10-23-85               |                      |
| Company<br>El Paso Natural Gas                                                                                            |            |                      | Connection<br>Mesa Verde |                                     |                      |
| Pool<br>Blanco                                                                                                            |            |                      | Formation                |                                     | Unit                 |
| Completion Date<br>10-23-85                                                                                               |            | Total Depth<br>6350  |                          | Plug Back TD<br>6335                | Elevation<br>6725 GR |
| Form or Lease Name<br>S.J. 38-5 Unit                                                                                      |            |                      |                          |                                     |                      |
| Csg. Size<br>7.000                                                                                                        | wt.<br>20  | d<br>6.456           | Set At<br>3999           | Perforations:<br>From *5863 To 6244 |                      |
| Well No.<br>#19A                                                                                                          |            |                      |                          |                                     |                      |
| Teg. Size<br>2.375                                                                                                        | wt.<br>4.7 | d<br>1.995           | Set At<br>6238           | Perforations:<br>From To            |                      |
| Unit Sec. Twp. Hq.<br>0 10 28 05                                                                                          |            |                      |                          |                                     |                      |
| Type Well - Single - Bradenhead - G.C. or G.O. Multiple<br>Single                                                         |            |                      |                          | Packer Set At<br>None               |                      |
| Producing Thru<br>Tbg.                                                                                                    |            |                      |                          | County<br>Rio Arriba                |                      |
| Reservoir Temp. *F<br>a                                                                                                   |            | Mean Annual Temp. *F |                          | Baro. Press. - P <sub>c</sub><br>12 |                      |
| 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 |
| 51        |                  |   |              |                 |                      |             | 1005            |             | 910             |                  | 7 Days   |
| 1.        |                  |   |              |                 |                      |             |                 |             |                 |                  |          |
| 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                         |                       |                  |                         |                       |                   |                              |                      |
| 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        | XXXXXX   |
| 3   |                |          |                |   | Specific Gravity Flowing Fluid        | XXXXXX   |
| 4   |                |          |                |   | Critical Pressure                     | P.S.I.A. |
| 5   |                |          |                |   | Critical Temperature                  | R        |

  

| NO. | P <sub>r</sub> | P <sub>w</sub> | P <sub>w</sub> | P <sub>c</sub> - P <sub>w</sub> | (1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ |
|-----|----------------|----------------|----------------|---------------------------------|-------------------------------------|------------------------------------------------------|
| 1   |                |                |                |                                 |                                     |                                                      |
| 2   |                |                |                |                                 |                                     |                                                      |
| 3   |                |                |                |                                 |                                     |                                                      |
| 4   |                |                |                |                                 |                                     |                                                      |
| 5   |                |                |                |                                 |                                     |                                                      |

  

|                                        |  |                              |  |                                       |  |
|----------------------------------------|--|------------------------------|--|---------------------------------------|--|
| Absolute Open Flow _____ Mcfd @ 15.025 |  |                              |  | Angle of Slope → _____ Slope, n _____ |  |
| Remarks: *4.500" Liner 3856' - 6347'.  |  |                              |  |                                       |  |
|                                        |  |                              |  |                                       |  |
| Approved by Commission:                |  | Conducted By:<br>John Easley |  | Calculated By:<br>Ed Mabe             |  |
|                                        |  |                              |  | Checked By:<br>kld                    |  |