

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

Form C-122  
Revised 9-1-65

RECEIVED  
OCT 18 1985  
OIL CON. DIV.  
DIST. 3

|                                                                                                                         |  |                       |  |                                 |  |                                |  |
|-------------------------------------------------------------------------------------------------------------------------|--|-----------------------|--|---------------------------------|--|--------------------------------|--|
| Type Test: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                       |  |                                 |  | Test Date: 10-16-85            |  |
| Company: El Paso Natural Gas                                                                                            |  |                       |  | Connection:                     |  |                                |  |
| Pool: Basin                                                                                                             |  |                       |  | Formation: Dakota               |  | Unit:                          |  |
| Completion Date: 10-16-85                                                                                               |  | Total Depth: 7505     |  | Plug Back TD: 7497              |  | Elevation: 6293                |  |
| Csg. Size: 4.500                                                                                                        |  | Set At: 7505          |  | Perforations: From 7270 To 7447 |  | Well No. #5E                   |  |
| Req. Size: 1.900                                                                                                        |  | Set At: 7429          |  | Perforations: From To           |  | Unit Sec. Twp. Rge. G 23 30 10 |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple                                                                 |  |                       |  |                                 |  | Packer Set At: None            |  |
| Producing Thru: Tbg.                                                                                                    |  | Reservoir Temp. °F: 8 |  | Mean Annual Temp. °F: 12        |  | County: San Juan               |  |
| L                                                                                                                       |  | H                     |  | Gg                              |  | State: New Mexico              |  |
|                                                                                                                         |  |                       |  | % CO <sub>2</sub>               |  | Prover                         |  |
|                                                                                                                         |  |                       |  | % N <sub>2</sub>                |  | Meter Run                      |  |
|                                                                                                                         |  |                       |  | % H <sub>2</sub> S              |  | 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        |                  |   |              |                 |                      |          | 1697            |          | 1757            |          | 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 _____ 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>r</sub> | P <sub>w</sub> | P <sub>r</sub> <sup>2</sup> | P <sub>w</sub> <sup>2</sup> | P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_r^2}{P_r^2 - P_w^2} =$ _____ | (2) $\left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$ _____ |
| 1   |                |                |                             |                             |                                                           |                                           |                                                            |
| 2   |                |                |                             |                             |                                                           |                                           |                                                            |
| 3   |                |                |                             |                             |                                                           |                                           |                                                            |
| 4   |                |                |                             |                             |                                                           |                                           |                                                            |
| 5   |                |                |                             |                             |                                                           |                                           |                                                            |

  

$ACF = Q \left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$

$\left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$

  

|                                        |  |                             |  |                |  |
|----------------------------------------|--|-----------------------------|--|----------------|--|
| Absolute Open Flow _____ Mcfd @ 15.025 |  | Angle of Slope $\phi$ _____ |  | Slope, n _____ |  |
| Remarks:                               |  |                             |  |                |  |

  

|                         |                              |                        |                 |
|-------------------------|------------------------------|------------------------|-----------------|
| Approved By Commission: | Conducted By: Bob Easterling | Calculated By: Ed Mabe | Checked By: kld |
|-------------------------|------------------------------|------------------------|-----------------|