

## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Aztec, Pictured Cliffs Formation Pictured Cliff County San Juan  
Initial XX Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 4-22-56  
Company Tennessee Gas Transmission Lease Nancy Ann Johnson Well No. 1  
Unit J Sec. 2 Twp. 30N Rge. 11W Purchaser El Paso Natural Gas Co  
Casing 15.5 Wt. 5-1/2 I.D. \_\_\_\_\_ Set at 2370 Perf. \_\_\_\_\_ To \_\_\_\_\_  
Tubing 1 Wt. 1" I.D. \_\_\_\_\_ Set at \_\_\_\_\_ Perf. \_\_\_\_\_ To \_\_\_\_\_  
Gas Pay: From 2370 To 2434 L \_\_\_\_\_ xG \_\_\_\_\_ -GL \_\_\_\_\_ Bar.Press. \_\_\_\_\_  
Producing Thru: Casing XX Tubing \_\_\_\_\_ Type Well Single - Gas  
Date of Completion: 4-8-56 Packer \_\_\_\_\_ Single-Bradenhead-G. G. or G.O. Dual  
Reservoir Temp. \_\_\_\_\_

## OBSERVED DATA

Tested Through (~~10000000~~ Choke) ~~10000000~~ Type Taps \_\_\_\_\_

| Flow Data |                            |                              |        |       |                     | Tubing | Data                | Casing Data |                     | Duration<br>of Flow<br>Hr. |
|-----------|----------------------------|------------------------------|--------|-------|---------------------|--------|---------------------|-------------|---------------------|----------------------------|
| No.       | (Prover)<br>(Line)<br>Size | (Choke)<br>(Orifice)<br>Size | Press. | Diff. | Temp.               | Press. | Temp.               | Press.      | Temp.               |                            |
|           |                            |                              | psig   | $h_w$ | $^{\circ}\text{F.}$ | psig   | $^{\circ}\text{F.}$ | psig        | $^{\circ}\text{F.}$ |                            |
| SI        |                            |                              |        |       | 60                  | 705    | 60                  | 700         |                     |                            |
| 1.        |                            | .750                         |        |       |                     |        |                     | 167         |                     | 3 hr                       |
| 2.        |                            |                              |        |       |                     |        |                     |             |                     |                            |
| 3.        |                            |                              |        |       |                     |        |                     |             |                     |                            |
| 4.        |                            |                              |        |       |                     |        |                     |             |                     |                            |
| 5.        |                            |                              |        |       |                     |        |                     |             |                     |                            |

## FLOW CALCULATIONS

| No. | Coefficient<br>(24-Hour) | $\sqrt{h_{wpf}}$ | Pressure<br>psia | Flow Temp.<br>Factor<br>F <sub>t</sub> | Gravity<br>Factor<br>F <sub>g</sub> | Compress.<br>Factor<br>F <sub>pv</sub> | Rate of Flow<br>Q-MCFPD<br>@ 15.025 psia |
|-----|--------------------------|------------------|------------------|----------------------------------------|-------------------------------------|----------------------------------------|------------------------------------------|
| 1.  | 12.3650                  |                  | 170              | 1.000                                  | .9535                               | 1.012                                  | 2123                                     |
| 2.  |                          |                  |                  |                                        |                                     |                                        |                                          |
| 3.  |                          |                  |                  |                                        |                                     |                                        |                                          |
| 4.  |                          |                  |                  |                                        |                                     |                                        |                                          |
| 5.  |                          |                  |                  |                                        |                                     |                                        |                                          |

## PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-s</sup>) \_\_\_\_\_  
Specific Gravity Separator Gas \_\_\_\_\_  
Specific Gravity Flowing Fluid \_\_\_\_\_  
P<sub>c</sub> \_\_\_\_\_ P<sub>c</sub> \_\_\_\_\_

| No. | $\frac{P_w}{P_t}$ (psia) | P <sub>t</sub> <sup>2</sup> | F <sub>c</sub> Q | (F <sub>c</sub> Q) <sup>2</sup> | (F <sub>c</sub> Q) <sup>2</sup><br>(1-e <sup>-s</sup> ) | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup> | Cal.<br>P <sub>w</sub> | $\frac{P_w}{P_c}$ |
|-----|--------------------------|-----------------------------|------------------|---------------------------------|---------------------------------------------------------|-----------------------------|----------------------------------------------------------|------------------------|-------------------|
| 1.  |                          |                             |                  |                                 |                                                         |                             |                                                          |                        |                   |
| 2.  |                          |                             |                  |                                 |                                                         |                             |                                                          |                        |                   |
| 3.  |                          |                             |                  |                                 |                                                         |                             |                                                          |                        |                   |
| 4.  |                          |                             |                  |                                 |                                                         |                             |                                                          |                        |                   |
| 5.  |                          |                             |                  |                                 |                                                         |                             |                                                          |                        |                   |

Absolute Potential: \_\_\_\_\_ MCFPD; n .85COMPANY Tennessee Gas Transmission CompanyADDRESS Box 1772, Casper, WyomingAGENT and TITLE Rex H. Byers, District EngineerWITNESSED S. J. StanleyCOMPANY Benson-Montin-Greer

REMARKS



