

## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesa Verde County San Juan  
Initial X Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test March 29, 1956  
Company El Paso Natural Gas Co. Lease Stewart Well No. 4  
Unit X Sec. 28 Twp. 30N Rge. 10W Purchaser \_\_\_\_\_  
Casing 5" Wt. \_\_\_\_\_ I.D. \_\_\_\_\_ Set at 5158 Perf. \_\_\_\_\_ To \_\_\_\_\_  
Tubing 2 Wt. 4.7 I.D. \_\_\_\_\_ Set at 5004 Perf. \_\_\_\_\_ To \_\_\_\_\_  
Gas Pay: From \_\_\_\_\_ To \_\_\_\_\_ L \_\_\_\_\_ xG .655 -GL \_\_\_\_\_ Bar.Press. \_\_\_\_\_  
Producing Thru: Casing \_\_\_\_\_ Tubing X Type Well Single  
Date of Completion: 3/20/56 Packer \_\_\_\_\_ Reservoir Temp. \_\_\_\_\_  
Single-Bradenhead-G. G. or G.O. Dual

## OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

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 <sub>w</sub> | °F.         | psig        | °F.         | psig        |                            | °F.     |
| 1.        |                            | 3/4                          | 249    |                |             | 1066<br>249 | 66          | 1065<br>557 |                            | 3 hours |
| 2.        |                            |                              |        |                |             |             |             |             |                            |         |
| 3.        |                            |                              |        |                |             |             |             |             |                            |         |
| 4.        |                            |                              |        |                |             |             |             |             |                            |         |
| 5.        |                            |                              |        |                |             |             |             |             |                            |         |

## FLOW CALCULATIONS

| No. | Coefficient<br>(24-Hour) | $\sqrt{h_w P_f}$ | 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.  | <u>14.1605</u>           |                  | <u>261</u>       | <u>.9743</u>                           | <u>.9571</u>                        | <u>1.024</u>                           | <u>3602</u>                              |
| 2.  |                          |                  |                  |                                        |                                     |                                        |                                          |
| 3.  |                          |                  |                  |                                        |                                     |                                        |                                          |
| 4.  |                          |                  |                  |                                        |                                     |                                        |                                          |
| 5.  |                          |                  |                  |                                        |                                     |                                        |                                          |

## PRESSURE CALCULATIONS

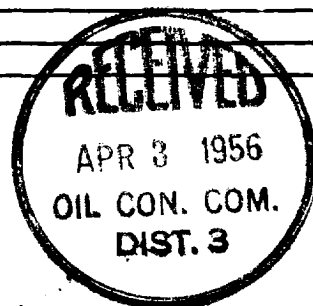
Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-s</sup>)

Specific Gravity Separator Gas \_\_\_\_\_  
Specific Gravity Flowing Fluid \_\_\_\_\_  
P<sub>c</sub> \_\_\_\_\_ P<sub>c</sub><sup>2</sup> \_\_\_\_\_

| No. | P <sub>w</sub><br>P <sub>t</sub> (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> | P <sub>w</sub><br>P <sub>c</sub> |
|-----|-----------------------------------------|-----------------------------|------------------|---------------------------------|---------------------------------------------------------|-----------------------------|----------------------------------------------------------|------------------------|----------------------------------|
| 1.  |                                         |                             |                  |                                 |                                                         |                             |                                                          |                        |                                  |
| 2.  |                                         |                             |                  |                                 |                                                         |                             |                                                          |                        |                                  |
| 3.  |                                         |                             |                  |                                 |                                                         |                             |                                                          |                        |                                  |
| 4.  |                                         |                             |                  |                                 |                                                         |                             |                                                          |                        |                                  |
| 5.  |                                         |                             |                  |                                 |                                                         |                             |                                                          |                        |                                  |

Absolute Potential: 4,594 MCFPD: n 0.750  
COMPANY El Paso Natural Gas Company  
ADDRESS Box 997, Farmington, N.M.  
AGENT and TITLE L. D. Galloway, Sr. Gas Engineer  
WITNESSED \_\_\_\_\_  
COMPANY \_\_\_\_\_

REMARKS



|                             |          |   |
|-----------------------------|----------|---|
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