

3-OCC, 1-HLKendrick, 1-BParrish  
 1-Comm. Pub. Lands  
 1-LDH, 1-TCA, 1-TCowan  
 MULTI-POINT BACK PRESSURE TEST FOR GAS WELL  
 1-F

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

|                                        |                     |                                    |                        |                                                                             |                    |
|----------------------------------------|---------------------|------------------------------------|------------------------|-----------------------------------------------------------------------------|--------------------|
| Pool<br><b>Basin Dakota</b>            |                     | Formation<br><b>Dakota</b>         |                        | County<br><b>Rio Arriba</b>                                                 |                    |
| Initial<br><b>X</b>                    |                     | Annual                             |                        | Date of Test<br><b>3-22-65</b>                                              |                    |
| Company<br><b>Beta Development Co.</b> |                     | Lease<br><b>San Juan 29-6 Unit</b> |                        | Well No.<br><b>86</b>                                                       |                    |
| Unit<br><b>N</b>                       | Sec.<br><b>27</b>   | Twp.<br><b>29N</b>                 | Range<br><b>6W</b>     | Purchaser<br><b>El Paso Natural Gas Co.</b>                                 |                    |
| Casing<br><b>4-1/2"</b>                | Wt.<br><b>11.6</b>  | I.D.<br><b>4.000</b>               | Set at<br><b>7682'</b> | Perf.<br><b>7598</b>                                                        | To<br><b>7658'</b> |
| Tubing<br><b>2-3/8"</b>                | Wt.<br><b>4.7</b>   | I.D.<br><b>1.995</b>               | Set at<br><b>7625'</b> | Perf.<br><b>Open</b>                                                        | To<br><b>End</b>   |
| Gas Pay:                               | From<br><b>7598</b> | To<br><b>7658</b>                  | L<br><b>7614</b>       | G<br><b>.670</b>                                                            | GL<br><b>12.0</b>  |
| Producing Through:                     |                     | Casing                             | Tubing<br><b>X</b>     | Type Well - Single - Braden head - G.G. or G.O. Dual<br><b>Single - Gas</b> |                    |
| Date of Completion                     |                     | Packer                             |                        | Reservoir Temp.                                                             |                    |

OBSERVED DATA

| Tested Through: |                            | Prover <input type="checkbox"/> | Choke <input checked="" type="checkbox"/> | Meter <input type="checkbox"/> | Type of Taps |                 |              |                 |                            |               |
|-----------------|----------------------------|---------------------------------|-------------------------------------------|--------------------------------|--------------|-----------------|--------------|-----------------|----------------------------|---------------|
| FLOW DATA       |                            |                                 |                                           |                                | TUBING DATA  |                 | CASING DATA  |                 | DURATION<br>OF FLOW<br>HR. |               |
| No.             | (Prover)<br>(Line)<br>Size | (Choke)<br>(Line)<br>Size       | Press.<br>psig.                           | Diff.<br>h <sub>w</sub>        | Temp.<br>°F. | Press.<br>psig. | Temp.<br>°F. | Press.<br>psig. |                            | Temp.<br>°F.  |
| SI              |                            |                                 |                                           |                                |              | <b>2476</b>     |              | <b>2659</b>     |                            | <b>7 days</b> |
| 1.              |                            | <b>3/4"</b>                     | <b>232</b>                                |                                | <b>74</b>    | <b>232</b>      | <b>74</b>    | <b>901</b>      |                            | <b>3 hrs</b>  |
| 2.              |                            |                                 |                                           |                                |              |                 |              |                 |                            |               |
| 3.              |                            |                                 |                                           |                                |              |                 |              |                 |                            |               |
| 4.              |                            |                                 |                                           |                                |              |                 |              |                 |                            |               |
| 5.              |                            |                                 |                                           |                                |              |                 |              |                 |                            |               |

FLOW CALCULATIONS

| No. | Coefficient<br>(24 Hour) | $\sqrt{h_w p_t}$ | 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 Q-MCF PD<br>@ 15,025 psia |
|-----|--------------------------|------------------|------------------|----------------------------------------|-------------------------------------|----------------------------------------|----------------------------------------|
| 1.  | <b>12.3650</b>           |                  | <b>244</b>       | <b>.9868</b>                           | <b>.9463</b>                        | <b>1.024</b>                           | <b>2,885</b>                           |
| 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> **2671** P<sub>c</sub><sup>2</sup> **7134.2**  
 P<sub>w</sub> **913** P<sub>w</sub><sup>2</sup> **833.5**

| 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> (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> | Cd<br>P <sub>w</sub> | $\frac{P}{P_c}$ |
|-----|------------------------|-----------------------------|------------------|---------------------------------|------------------------------------------------------|-----------------------------|-----------------------------------------------------------|----------------------|-----------------|
| 1.  |                        |                             |                  |                                 |                                                      | <b>833.5</b>                | <b>6300.7</b>                                             |                      |                 |
| 2.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                      |                 |
| 3.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                      |                 |
| 4.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                      |                 |
| 5.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                      |                 |

ABSOLUTE POTENTIAL: **3,166** MCFPD: n **.75**

COMPANY **Beta Development Co.** WITNESSED **H. McAnally**

ADDRESS **234 Petr. Club Plaza, Farmington, N.M.** COMPANY **El Paso Natural Gas Co.**

AGENT AND TITLE **G.L. Hoffman, Prod. Engr.**

