

**NEW MEXICO OIL CONSERVATION COMMISSION  
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122  
Revised 12-1-55

|                                    |                  |                                  |                             |                                                                    |                                      |
|------------------------------------|------------------|----------------------------------|-----------------------------|--------------------------------------------------------------------|--------------------------------------|
| Pool <b>Basin</b>                  |                  | Formation <b>Sabota</b>          |                             | County <b>San Juan</b>                                             |                                      |
| Initial <b>X</b>                   | Annual           | Special                          | Date of Test <b>6-22-65</b> |                                                                    |                                      |
| PAN AMERICAN PETROLEUM CORPORATION |                  | Lease <b>Martin Gas Unit "F"</b> |                             | Well No. <b>1</b>                                                  |                                      |
| Unit <b>2</b>                      | Sec. <b>14</b>   | Twp. <b>27N</b>                  | Range <b>10W</b>            | Purchaser                                                          |                                      |
| Casing <b>4-1/2</b>                | Wt. <b>10.5</b>  | I.D. <b>4.032</b>                | Set at <b>6643</b>          | Perf. <b>6414-27<br/>6457-62</b>                                   | To <b>6502-16<br/>6522-34</b>        |
| Tubing <b>2-3/8</b>                | Wt. <b>4.7</b>   | I.D. <b>1.993</b>                | Set at <b>6426</b>          | Perf. <b>6392</b>                                                  | To <b>6398</b>                       |
| Gas Pay:                           | From <b>6414</b> | To <b>6534</b>                   | L <b>6474</b>               | G <b>.700</b>                                                      | GL <b>4532</b> Bar. Press. <b>12</b> |
| Producing Through:                 |                  | Casing                           | Tubing <b>X</b>             | Type Well - Single - Braden head - G.G. or G.O. Dual <b>Single</b> |                                      |
| Date of Completion <b>6-24-65</b>  |                  | Packer <b>None</b>               |                             | 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 OF FLOW HR. |
| No.                                                                                                                      | (Prover) (Line) Size | (Choke) (Orifice) Size | Press. psig. | Diff. h <sub>w</sub> | Temp. °F.   | Press. psig. | Temp. °F.       | Press. psig. |                      |
| SI                                                                                                                       | <b>2 Days</b>        |                        |              |                      |             | <b>1937</b>  |                 | <b>1933</b>  |                      |
| 1.                                                                                                                       | <b>2 Inch</b>        | <b>.750</b>            | <b>363</b>   |                      |             | <b>363</b>   | <b>60° est.</b> | <b>304</b>   | <b>60° est.</b>      |
| 2.                                                                                                                       |                      |                        |              |                      |             |              |                 |              |                      |
| 3.                                                                                                                       |                      |                        |              |                      |             |              |                 |              |                      |
| 4.                                                                                                                       |                      |                        |              |                      |             |              |                 |              |                      |
| 5.                                                                                                                       |                      |                        |              |                      |             |              |                 |              |                      |

**FLOW CALCULATIONS**

| No. | Coefficient (24 Hour) | $\sqrt{h_w P_f}$ | Pressure psia | Flow Temp. Factor F <sub>t</sub> | Gravity Factor F <sub>g</sub> | Compress. Factor F <sub>pv</sub> | Rate of Flow Q-MCF PD @ 15.025 psia |
|-----|-----------------------|------------------|---------------|----------------------------------|-------------------------------|----------------------------------|-------------------------------------|
| 1.  | <b>12.3450</b>        |                  | <b>373</b>    | <b>1.000</b>                     | <b>.9258</b>                  | <b>1.046</b>                     | <b>4490</b>                         |
| 2.  |                       |                  |               |                                  |                               |                                  |                                     |
| 3.  |                       |                  |               |                                  |                               |                                  |                                     |
| 4.  |                       |                  |               |                                  |                               |                                  |                                     |
| 5.  |                       |                  |               |                                  |                               |                                  |                                     |

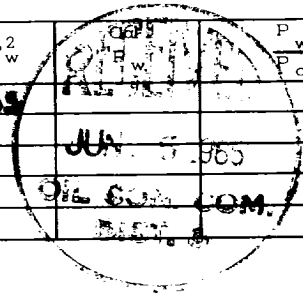
**PRESSURE CALCULATIONS**

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.      Specific Gravity Separator Gas \_\_\_\_\_

Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.      Specific Gravity Flowing Fluid \_\_\_\_\_

F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-S</sup>) \_\_\_\_\_      P<sub>c</sub> **1940**      P<sub>c</sub><sup>2</sup> **3,794,401**

| 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> | $\frac{P_w}{P_c}$ |
|-----|------------------------|-----------------------------|------------------|---------------------------------|------------------------------------------------------|-----------------------------|-----------------------------------------------------------|-------------------|
| 1.  |                        |                             |                  |                                 | <b>830,054</b>                                       |                             | <b>2,930,345</b>                                          |                   |
| 2.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                   |
| 3.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                   |
| 4.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                   |
| 5.  |                        |                             |                  |                                 |                                                      |                             |                                                           |                   |



ABSOLUTE POTENTIAL: **3414** MCFPD; n **.73**

**PAN AMERICAN PETROLEUM CORPORATION**

COMPANY \_\_\_\_\_ WITNESSED \_\_\_\_\_

**Box 460, Farmington, New Mexico**

ADDRESS \_\_\_\_\_ COMPANY \_\_\_\_\_

**F. L. Nabors, District Engineer** By: \_\_\_\_\_

AGENT AND TITLE \_\_\_\_\_