

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

Form C-122  
Revised 9-1-65

**RECEIVED**

NOV 2 1966  
OIL CON. COM.  
DIST. 3

|                                                                                                                           |  |                          |  |                                                  |  |
|---------------------------------------------------------------------------------------------------------------------------|--|--------------------------|--|--------------------------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                          |  | Test Date<br><b>10-22-66</b>                     |  |
| Company<br><b>Intermountain Petro. Corp.</b>                                                                              |  |                          |  | Connection                                       |  |
| Pool<br><b>South Blanco</b>                                                                                               |  |                          |  | Formation<br><b>PC</b>                           |  |
| Completion Date                                                                                                           |  | Total Depth              |  | Plug Back TD                                     |  |
|                                                                                                                           |  |                          |  | Elevation                                        |  |
| Csg. Size<br><b>4 1/2</b>                                                                                                 |  |                          |  | Well No.<br><b>No. 2</b>                         |  |
| Wt.                                                                                                                       |  | Set At<br><b>PB 2626</b> |  | Perforations:<br>From <b>2562</b> To <b>2576</b> |  |
| Tbg. Size<br><b>1</b>                                                                                                     |  | Set At<br><b>2560</b>    |  | Perforations:<br>From <b>2554</b> To <b>2560</b> |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br><b>Single</b>                                                  |  |                          |  | Packer Set At<br><b>No</b>                       |  |
| Producing Thru<br><b>Tubing</b>                                                                                           |  | Reservoir Temp. °F<br>@  |  | Baro. Press. - P <sub>a</sub>                    |  |
| L                                                                                                                         |  | H                        |  | County<br><b>Rio Arriba</b>                      |  |
| Gg                                                                                                                        |  | % CO <sub>2</sub>        |  | State<br><b>New Mexico</b>                       |  |
|                                                                                                                           |  | % 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 |                   |
| SI        |                  |   |              |                 |                      |           | <b>851</b>      |          | <b>851</b>      |          |                   |
| 1.        | <b>2"</b>        |   | <b>.750</b>  | <b>45</b>       |                      | <b>50</b> | <b>45</b>       |          | <b>766.5</b>    |          | <b>3 hr. flow</b> |
| 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                         | <b>12.20</b>          |                  | <b>57</b>               | <b>1.0098</b>         | <b>.9608</b>      | <b>1.000</b>                | <b>665</b>           |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

|     |                |          |                |   |                                                             |
|-----|----------------|----------|----------------|---|-------------------------------------------------------------|
| NO. | P <sub>t</sub> | Temp. °R | T <sub>f</sub> | Z | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.                 |
| 1.  |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.            |
| 2.  |                |          |                |   | Specific Gravity Separator Gas _____ <b>X X X X X X X X</b> |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid _____ <b>X X X X X</b>       |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.             |
| 5.  |                |          |                |   | Critical Temperature _____ R _____ R                        |

|                           |                                            |                |                             |
|---------------------------|--------------------------------------------|----------------|-----------------------------|
| P <sub>c</sub> <b>863</b> | P <sub>c</sub> <sup>2</sup> <b>744,769</b> |                |                             |
| NO.                       | P <sub>t</sub> <sup>2</sup>                | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> |
| 1                         | <b>606.062</b>                             | <b>778.5</b>   | <b>606.062</b>              |
| 2                         |                                            |                |                             |
| 3                         |                                            |                |                             |
| 4                         |                                            |                |                             |
| 5                         |                                            |                |                             |

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{744,769}{138.707}$$

$$(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{(5.3693)}{4.1727}$$

$$ACF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2817$$

|                                              |                                  |                               |                     |
|----------------------------------------------|----------------------------------|-------------------------------|---------------------|
| Absolute Open Flow <b>2817</b> Mcfd @ 15.025 |                                  | Angle of Slope $\theta$ _____ | Slope, n <b>.85</b> |
| Remarks: _____                               |                                  |                               |                     |
| Approved By Commission:                      | Conducted By: <i>W. B. Smith</i> | Calculated By:                | Checked By:         |