

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-122  
Revised 10-1-78

## MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL 11-22-85

|                                                                                                                                      |  |                             |  |                                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------|--|----------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special |  | Test Date<br>12-11-85       |  | JAN 02 1986                      |  |
| Company<br>Amoco Production Co.                                                                                                      |  | Connection<br>SUG           |  | OIL CON. DIV.                    |  |
| Pool<br>Flucher Kutz                                                                                                                 |  | Formation<br>Pictured Cliff |  | Unit<br>DIST. 8                  |  |
| Completion Date<br>12-3-85                                                                                                           |  | Total Depth<br>1886'        |  | Elevation<br>5768' GR            |  |
| Ceq. Size<br>2.875                                                                                                                   |  | WI.<br>6.5                  |  | Set At<br>1881'                  |  |
| Perforations:<br>From 1680'                                                                                                          |  | To 1758'                    |  | Well No.<br>2                    |  |
| Thg. Size                                                                                                                            |  | WI.                         |  | Set At                           |  |
| Perforations:<br>From Slim                                                                                                           |  | To Hole                     |  | Unit Sec. Twp. Rge.<br>C 6 27 10 |  |
| Type Well - Single - Bradenhead - G.G. or C.O. Multiple<br>Single                                                                    |  |                             |  | Packer Set At<br>None            |  |
| Producing Thru<br>Tubing                                                                                                             |  |                             |  | County<br>San Juan               |  |
| Reservoir Temp. °F                                                                                                                   |  | Mean Annual Temp. °F        |  | State<br>New Mexico              |  |
| L                                                                                                                                    |  | H                           |  | Cg                               |  |
| % CO <sub>2</sub>                                                                                                                    |  | % N <sub>2</sub>            |  | % H <sub>2</sub> S               |  |
| Prover                                                                                                                               |  | Meter Run                   |  | Taps                             |  |

| FLOW DATA |                        |   |                 |                    |                         | TUBING DATA |                    | CASING DATA |                    | Duration<br>of<br>Flow |             |
|-----------|------------------------|---|-----------------|--------------------|-------------------------|-------------|--------------------|-------------|--------------------|------------------------|-------------|
| NO.       | Prover<br>Line<br>Size | X | Orifice<br>Size | Press.<br>p.s.i.g. | Diff.<br>h <sub>w</sub> | Temp.<br>°F | Press.<br>p.s.i.g. | Temp.<br>°F | Press.<br>p.s.i.g. |                        | Temp.<br>°F |
| SI        | 7 days                 |   |                 |                    |                         |             |                    |             | 250                |                        |             |
| 1.        | 2.375                  |   | .750            |                    |                         |             |                    |             | 75                 |                        | 3 hrs       |
| 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, Mc/d |
|-----|-----------------------|------------------|-------------------------|-----------------------|-------------------|-----------------------------|----------------------|
| 1   | 12.365                |                  | 82                      | 1.000                 | .9258             | 1.008                       | 946                  |
| 2.  |                       |                  |                         |                       |                   |                             |                      |
| 3.  |                       |                  |                         |                       |                   |                             |                      |
| 4.  |                       |                  |                         |                       |                   |                             |                      |
| 5.  |                       |                  |                         |                       |                   |                             |                      |

| NO. | R <sub>f</sub> | Temp. °R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio _____ Mc'/bbl.          |
|-----|----------------|----------|----------------|---|------------------------------------------------------|
| 1   |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.     |
| 2.  |                |          |                |   | Specific Gravity Separator Gas _____ X X X X X X X X |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid _____ X X X X X       |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.      |
| 5.  |                |          |                |   | Critical Temperature _____ R _____ R                 |

|                    |                                   |                                            |                                                             |
|--------------------|-----------------------------------|--------------------------------------------|-------------------------------------------------------------|
| P <sub>c</sub> 262 | P <sub>c</sub> <sup>2</sup> 68644 | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0168$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0143$ |
| NO.                | P <sub>1</sub> <sup>2</sup>       | P <sub>w</sub>                             | P <sub>w</sub> <sup>2</sup>                                 |
| 1                  |                                   | 106                                        | 67508                                                       |
| 2                  |                                   |                                            |                                                             |
| 3                  |                                   |                                            |                                                             |
| 4                  |                                   |                                            |                                                             |
| 5                  |                                   |                                            |                                                             |

AOF = Q  $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 960$

Absolute Open Flow 960 Mc/d @ 15.025 Angle of Slope  $\theta$  \_\_\_\_\_ Slope, n .85

Remarks: Flared, Medium H<sub>2</sub>O

Approved By Division

Conducted By:

Bryan Services

Calculated By:

J.J. Barnett

Checked By:

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