

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

Form C-122  
Revised 9-1-65

|                                                                                                                        |          |                            |                       |                                   |                      |                                    |                |                    |  |
|------------------------------------------------------------------------------------------------------------------------|----------|----------------------------|-----------------------|-----------------------------------|----------------------|------------------------------------|----------------|--------------------|--|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |          |                            |                       |                                   |                      | Test Date 6-9-85                   |                |                    |  |
| Company Amoco Production Company                                                                                       |          |                            |                       | Connection                        |                      |                                    |                |                    |  |
| Pool Bravo Dome Carbon Dioxide Gas Unit - 640-Acre Area                                                                |          |                            |                       | Formation Tubb                    |                      |                                    |                | Unit BDCDGU        |  |
| Completion Date                                                                                                        |          | Total Depth 2765'          |                       | Plug Back TD 2645'                |                      | Elevation 4680' G.L.               |                | Farm or Lease Name |  |
| Csq. Size 7"                                                                                                           | Wt. 20#  | d                          | Set At 2765'          | Perforations: From 2123' To 2288' |                      | Well No. 1835 061G                 |                |                    |  |
| Thq. Size 3 1/2"                                                                                                       | Wt. 9.3# | d                          | Set At 2068'          | Perforations: From To             |                      | Unit Soc. Twp. Hge. G 6 18 35      |                |                    |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single                                                         |          |                            |                       |                                   |                      | Packer Set At 2030'                |                | County Union       |  |
| Producing Thru Tubing                                                                                                  |          | Reservoir Temp. °F @ 2205' |                       | Mean Annual Temp. °F 50           |                      | Baro. Press. - P <sub>g</sub> 12.2 |                | State New Mexico   |  |
| L 2205'                                                                                                                | H 2205'  | G <sub>g</sub> 1.529       | % CO <sub>2</sub> 100 | % N <sub>2</sub> 0                | % H <sub>2</sub> S 0 | Prover                             | Meter Run 4.0" | Taps Flange        |  |

  

| 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. |                  |
| SI        |                  |   |              |                 |                      |             | 317             |             |                 |                  |
| 1.        | 4.026            | X | 2.75         | 222             | 38                   | 57          | 234.2           | 50          |                 |                  |
| 2.        | "                |   | "            | 244             | 25                   | 58          | 256.2           | "           |                 |                  |
| 3.        | "                |   | "            | 264             | 15                   | 58          | 276.2           | "           |                 |                  |
| 4.        | "                |   | "            | 289             | 6                    | 55          | 301.2           | "           |                 |                  |
| 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                         |                       |                  |                         |                       |                   |                             | 3261                 |
| 2                         |                       |                  |                         |                       |                   |                             | 2801                 |
| 3                         |                       |                  |                         |                       |                   |                             | 2255                 |
| 4                         |                       |                  |                         |                       |                   |                             | 1468                 |
| 5                         |                       |                  |                         |                       |                   |                             |                      |

  

|     |                |          |                |   |                                              |
|-----|----------------|----------|----------------|---|----------------------------------------------|
| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.      |
| 1.  |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons 0 Deg. |
| 2.  |                |          |                |   | Specific Gravity Separator Gas 1.529         |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid X X X X X     |
| 4.  |                |          |                |   | Critical Pressure 1072 P.S.I.A.              |
| 5.  |                |          |                |   | Critical Temperature 547 °R                  |

  

|     |                             |                |                             |                                                           |                                          |                                                           |
|-----|-----------------------------|----------------|-----------------------------|-----------------------------------------------------------|------------------------------------------|-----------------------------------------------------------|
| NO. | P <sub>r</sub> <sup>2</sup> | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>r</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_r^2}{P_r^2 - P_w^2} = 2.02$ | (2) $\left[ \frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.66$ |
| 1   |                             | 234.2          |                             | 53.523                                                    |                                          |                                                           |
| 2   |                             | 256.2          |                             | 42.734                                                    |                                          |                                                           |
| 3   |                             | 276.2          |                             | 32.086                                                    |                                          |                                                           |
| 4   |                             | 301.2          |                             | 17.651                                                    |                                          |                                                           |
| 5   |                             |                |                             |                                                           |                                          |                                                           |

  

|                                       |  |               |  |                             |  |              |  |
|---------------------------------------|--|---------------|--|-----------------------------|--|--------------|--|
| Absolute Open Flow 5419 Mcfd @ 15.025 |  |               |  | Angle of Slope θ            |  | Slope, n .72 |  |
| Remarks:                              |  |               |  |                             |  |              |  |
| Approved By Commission:               |  | Conducted By: |  | Calculated By: D. D. Kimble |  | Checked By:  |  |

1835 0616

46 7200

K·Σ LOGARITHMIC 2 x 2 CYCLES  
KLUJTEL & ESSER CO. MADE IN U.S.A.

AOE = 5419

1000 1.5 2 2.5 3 4 5 6 7 8 9 10000 1.5 2 2.5 3 4 5 6 7 8 9 1

$$Q = MCF$$

# NEW MEXICO OIL CONSERVATION COMMISSION

## NOTIFICATION OF FIRE, BREAKS, SPILLS, LEAKS, AND BLOWOUTS

|                                                                                                                                                                                                                                                                                                                                                         |           |                                         |           |                                             |                                            |                       |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------|-----------|---------------------------------------------|--------------------------------------------|-----------------------|---------------|
| NAME OF OPERATOR AMOCO PRODUCTION COMPANY                                                                                                                                                                                                                                                                                                               |           |                                         |           |                                             | ADDRESS<br>P.O. Box 606, Clayton, NM 88415 |                       |               |
| REPORT OF                                                                                                                                                                                                                                                                                                                                               | FIRE      | BREAK                                   | SPILL     | LEAK<br>X                                   | BLOWOUT                                    | OTHER*                |               |
| TYPE OF FACILITY                                                                                                                                                                                                                                                                                                                                        | DRLG WELL | PROD WELL                               | TANK BTTY | PIPE LINE<br>X                              | GASO PLNT                                  | OIL RFY               | OTHER*        |
| NAME OF FACILITY BRAVO DOME SE COLL/COMPR FAC/PHASE II                                                                                                                                                                                                                                                                                                  |           |                                         |           |                                             |                                            |                       |               |
| LOCATION OF FACILITY (QUARTER/QUARTER SECTION OR FOOTAGE DESCRIPTION)                                                                                                                                                                                                                                                                                   |           |                                         |           | 1000' FNL X<br>2625' FWL                    | SEC.<br>6                                  | TWP.<br>18N           | RGE.<br>35E   |
| DISTANCE AND DIRECTION FROM NEAREST TOWN OR PROMINENT LANDMARK                                                                                                                                                                                                                                                                                          |           |                                         |           | 8.6 miles southeast of Amistad, NM          |                                            |                       |               |
| DATE AND HOUR OF OCCURRENCE 12-13-84 6:51 pm                                                                                                                                                                                                                                                                                                            |           |                                         |           | DATE AND HOUR OF DISCOVERY 12-14-84 2:30 pm |                                            |                       |               |
| WAS IMMEDIATE NOTICE GIVEN?                                                                                                                                                                                                                                                                                                                             |           | YES<br>X                                | NO        | NOT RE-REQUIRED                             | IF YES, TO WHOM DAVID CATANAC              |                       |               |
| BY WHOM J.S. MCELYA, ASST. ADM. ANALYST                                                                                                                                                                                                                                                                                                                 |           |                                         |           | DATE AND HOUR 12-19-84 10:35am              |                                            |                       |               |
| TYPE OF FLUID LOST Carbon Dioxide Gas                                                                                                                                                                                                                                                                                                                   |           |                                         |           | QUANTITY OF LOSS 15008 MCF                  |                                            | VOLUME RECOVERED None |               |
| DID ANY FLUIDS REACH A WATERCOURSE?                                                                                                                                                                                                                                                                                                                     |           | YES                                     | NO<br>X   | QUANTITY                                    |                                            |                       |               |
| IF YES, DESCRIBE FULLY**                                                                                                                                                                                                                                                                                                                                |           |                                         |           |                                             |                                            |                       |               |
| DESCRIBE CAUSE OF PROBLEM AND REMEDIAL ACTION TAKEN**<br>During purging and collection system line pack a 4" blowdown valve was inadvertently left open. As a result 9425 MCF was vented to the atmosphere on December 13 and 5583 MCF was vented to the atmosphere on December 14. total vent equals 15008 MCF. This volume was estimated not metered. |           |                                         |           |                                             |                                            |                       |               |
| DESCRIBE AREA AFFECTED AND CLEANUP ACTION TAKEN**<br>No cleanup was necessary.                                                                                                                                                                                                                                                                          |           |                                         |           |                                             |                                            |                       |               |
| DESCRIPTION OF AREA                                                                                                                                                                                                                                                                                                                                     | FARMING   | GRAZING<br>X                            | URBAN     | OTHER*                                      |                                            |                       |               |
| SURFACE CONDITIONS                                                                                                                                                                                                                                                                                                                                      | SANDY     | SANDY LOAM<br>X                         | CLAY      | ROCKY                                       | WET                                        | DRY                   | SNOW          |
| DESCRIBE GENERAL CONDITIONS PREVAILING (TEMPERATURE, PRECIPITATION, ETC)<br>ApX 22 degrees-Snowing                                                                                                                                                                                                                                                      |           |                                         |           |                                             |                                            |                       |               |
| I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF                                                                                                                                                                                                                                                 |           |                                         |           |                                             |                                            |                       |               |
| SIGNED                                                                                                                                                                                                                                                                                                                                                  |           | John S. McElya                          |           |                                             | TITLE Asst. Adm. Analyst                   |                       | DATE 12-19-84 |
| *SPECIFY                                                                                                                                                                                                                                                                                                                                                |           | **ATTACH ADDITIONAL SHEETS IF NECESSARY |           |                                             |                                            |                       |               |

