

Submit in duplicate to  
appropriate district office  
See Rule 401 & Rule 1122

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-122  
Revised 4-1-91  
dise  
File

OIL CONSERVATION DIVISION

JUN 12 '95

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

O. C. D.

ARTESIA, OFFICE

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

|                                                                                                                           |  |                                   |  |                                      |  |                         |  |
|---------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------|--|--------------------------------------|--|-------------------------|--|
| Operator<br>OXY U.S.A.                                                                                                    |  |                                   |  | Lease or Unit Name<br>YARBRO A.COMM. |  |                         |  |
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                                   |  | Test Date<br>12-21-94                |  | Well No. 1              |  |
| Completion Date<br>12-9-94                                                                                                |  | Total Depth<br>12875              |  | Plug Back TD<br>12833                |  | Elevation               |  |
| Csg. Size<br>5"                                                                                                           |  | Wt.<br>18#                        |  | d<br>4.276                           |  | Set At<br>12875         |  |
| Tbg. Size<br>2-7/8                                                                                                        |  | Wt.<br>6.5                        |  | d<br>2.441                           |  | Set At<br>11854         |  |
| Perforations:<br>From: 12142 To: 12817                                                                                    |  |                                   |  | Perforations:<br>From: To:           |  |                         |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>SINGLE                                                         |  |                                   |  | Packer Set At                        |  |                         |  |
| Producing Thru<br>T.B.G.                                                                                                  |  | Reservoir Temp. °F<br>198 @ 12142 |  | Mean Annual Temp. °F<br>60           |  | Baro. Press - P<br>13.2 |  |
| L<br>12142                                                                                                                |  | H<br>12142                        |  | Gg<br>.584                           |  | % CO <sub>2</sub> 1.69  |  |
|                                                                                                                           |  |                                   |  | % N <sub>2</sub> 0.0                 |  | % H <sub>2</sub> S      |  |
|                                                                                                                           |  |                                   |  | Prover                               |  | Meter Run<br>4.026      |  |
|                                                                                                                           |  |                                   |  |                                      |  | Taps<br>FLG.            |  |
| Unit Ltr. - Sec. - TWP - Rge.<br>J 15-23S-28E                                                                             |  |                                   |  |                                      |  |                         |  |
| County<br>EDDY                                                                                                            |  |                                   |  |                                      |  |                         |  |
| Pool<br>D. Lewis Morrow                                                                                                   |  |                                   |  |                                      |  |                         |  |
| Formation<br>MORROW                                                                                                       |  |                                   |  |                                      |  |                         |  |
| Connection<br>PIPELINE                                                                                                    |  |                                   |  |                                      |  |                         |  |

| FLOW DATA |                  |              |                 |                      |          | TUBING DATA     |          | CASING DATA     |          | Duration of Flow |
|-----------|------------------|--------------|-----------------|----------------------|----------|-----------------|----------|-----------------|----------|------------------|
| NO.       | Prover Line Size | 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        |                  |              |                 |                      |          | 2940            |          |                 |          |                  |
| 1.        |                  |              |                 |                      |          | 620             |          |                 |          | 24 hr.           |
| 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 F <sub>L</sub> | Gravity Factor F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1.                        |                                             |                  |                         |                                  |                               |                                         |                      |
| 2.                        |                                             |                  |                         |                                  |                               |                                         |                      |
| 3.                        | RATE TAKEN FROM ELECTRONIC TOTAL FLOW METER |                  |                         |                                  |                               |                                         |                      |
| 4.                        |                                             |                  |                         |                                  |                               |                                         | 248                  |
| 5.                        |                                             |                  |                         |                                  |                               |                                         |                      |

| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio | A.P. I. Gravity of Liquid Hydrocarbons | Specific Gravity Separator Gas | Specific Gravity Flowing Fluid | Critical Pressure *676 | Critical Temperature *349 |
|-----|----------------|----------|----------------|---|------------------------------|----------------------------------------|--------------------------------|--------------------------------|------------------------|---------------------------|
| 1.  |                |          |                |   |                              |                                        |                                |                                |                        |                           |
| 2.  |                |          |                |   |                              |                                        |                                |                                |                        |                           |
| 3.  |                |          |                |   |                              |                                        |                                |                                |                        |                           |
| 4.  |                |          |                |   |                              |                                        |                                |                                |                        |                           |
| 5.  |                |          |                |   |                              |                                        |                                |                                |                        |                           |

| P <sub>c</sub> 2953.2 | P <sub>c</sub> <sup>2</sup> 8721.4 |                |                             |                                                           |                                          |                                                            |  |  |  |  |
|-----------------------|------------------------------------|----------------|-----------------------------|-----------------------------------------------------------|------------------------------------------|------------------------------------------------------------|--|--|--|--|
| NO.                   | P <sub>i</sub> <sup>2</sup>        | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | 1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.048$ | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.048$ |  |  |  |  |
| 1.                    | 399.7                              | 632.8          | 400.5                       | 8320.9                                                    |                                          |                                                            |  |  |  |  |
| 2.                    |                                    |                |                             |                                                           |                                          |                                                            |  |  |  |  |
| 3.                    |                                    |                |                             |                                                           |                                          |                                                            |  |  |  |  |
| 4.                    |                                    |                |                             |                                                           |                                          |                                                            |  |  |  |  |
| 5.                    |                                    |                |                             |                                                           |                                          |                                                            |  |  |  |  |

|                    |     |               |                  |    |          |       |
|--------------------|-----|---------------|------------------|----|----------|-------|
| Absolute Open Flow | 260 | Mcfd @ 15.025 | Angle of Slope θ | 45 | Slope, n | 1.000 |
|--------------------|-----|---------------|------------------|----|----------|-------|

Remarks: \* CORRECTED TO 1% Co<sup>2</sup>

|                      |                                  |                      |                   |
|----------------------|----------------------------------|----------------------|-------------------|
| Approved By Division | Conducted By:<br>PRO WELL TESTER | Calculated By:<br>KS | Checked By:<br>BM |
|----------------------|----------------------------------|----------------------|-------------------|