

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

|                                                                                                                           |  |                                       |  |
|---------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  | Test Date<br>10-28-91                 |  |
| Company<br>MERIDIAN OIL INC                                                                                               |  | Connection<br>EPNG                    |  |
| Pool<br>MERCADO CALLUP                                                                                                    |  | Formation<br>CALLUP                   |  |
| Completion Date<br>10-16-91                                                                                               |  | Total Depth<br>6685                   |  |
| Casing Size<br>4 1/2                                                                                                      |  | Elevation<br>6649'                    |  |
| Well No.<br>215                                                                                                           |  | Form or Lease Name<br>HUERFANO UNIT   |  |
| Casing Size<br>2 3/8                                                                                                      |  | Well No.<br>215                       |  |
| Type Well - Single - Drilled - G.C. or G.O. Multiple<br>SINGLE                                                            |  | Packer Set At                         |  |
| Producing Thru<br>TUBING                                                                                                  |  | Baro. Press. - P <sub>a</sub><br>12.2 |  |
| L H                                                                                                                       |  | Prover                                |  |
| C <sub>g</sub><br>.700                                                                                                    |  | Meter Run                             |  |

| FLOW DATA |                  |   |              |                 |                      |          | TUBING DATA     |          | CASING DATA     |          | Duration of Flow |
|-----------|------------------|---|--------------|-----------------|----------------------|----------|-----------------|----------|-----------------|----------|------------------|
| NO.       | Prover Line Size | X | Critice 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        | 2000             |   | .750         |                 |                      |          | 630             |          | 680             |          | INITIAL          |
| 1.        |                  |   |              |                 |                      |          | 162             | 54°      | 576             |          | 15 MIN           |
| 2.        |                  |   |              |                 |                      |          | 131             | 56°      | 563             |          | 30 MIN           |
| 3.        |                  |   |              |                 |                      |          | 84              | 52°      | 539             |          | 1 HR             |
| 4.        |                  |   |              |                 |                      |          | 66              | 65°      | 421             |          | 2 HRS            |
| 5.        |                  |   |              |                 |                      |          | 26              | 58°      | 415             |          | 3 HRS            |

| RATE OF FLOW CALCULATIONS |                       |              |                         |                                  |                               |                                         |                      |
|---------------------------|-----------------------|--------------|-------------------------|----------------------------------|-------------------------------|-----------------------------------------|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor F <sub>t</sub> | Gravity Factor F <sub>g</sub> | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mscf |
| 1                         | 12.365                |              | 38.2                    | 1.000                            | .9258                         | 1.000                                   | 437.2951             |
| 2.                        |                       |              |                         |                                  |                               |                                         |                      |
| 3.                        |                       |              |                         |                                  |                               |                                         |                      |
| 4.                        |                       |              |                         |                                  |                               |                                         |                      |
| 5.                        |                       |              |                         |                                  |                               |                                         |                      |

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

|     |                |                |                             |                             |                                                           |                                            |                                                           |
|-----|----------------|----------------|-----------------------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------|
| NO. | P <sub>a</sub> | P <sub>m</sub> | P <sub>a</sub> <sup>2</sup> | P <sub>m</sub> <sup>2</sup> | P <sub>a</sub> <sup>2</sup> - P <sub>m</sub> <sup>2</sup> | (1) $\frac{P_a^2}{P_a^2 - P_m^2} = 1.7938$ | (2) $\left[ \frac{P_a^2}{P_a^2 - P_m^2} \right]^n = 1.55$ |
| 1   | 427.2          | 182.49         | 182.49                      | 229.921                     |                                                           |                                            |                                                           |
| 2.  |                |                |                             |                             |                                                           |                                            |                                                           |
| 3.  |                |                |                             |                             |                                                           |                                            |                                                           |
| 4.  |                |                |                             |                             |                                                           |                                            |                                                           |
| 5.  |                |                |                             |                             |                                                           |                                            |                                                           |

|                    |     |              |                |          |     |
|--------------------|-----|--------------|----------------|----------|-----|
| Absolute Open Flow | 678 | Mcf @ 15.025 | Angle of Slope | Slope, n | .75 |
|--------------------|-----|--------------|----------------|----------|-----|

Remarks:

|                      |              |               |            |
|----------------------|--------------|---------------|------------|
| Approved By Division | Conducted By | Calculated By | Checked By |
|                      |              |               |            |