

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

Form C-122  
Revised 9-1-65

|                                                                                                                           |  |                         |  |                        |  |                                               |  |
|---------------------------------------------------------------------------------------------------------------------------|--|-------------------------|--|------------------------|--|-----------------------------------------------|--|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                         |  | Test Date<br>1-6-80    |  |                                               |  |
| Company<br>Petro-Lewis Corporation                                                                                        |  |                         |  | Connection<br>El Paso  |  |                                               |  |
| Pool<br>Blanco                                                                                                            |  |                         |  | Formation<br>Mesaverde |  | Unit                                          |  |
| Completion Date<br>1-14-80                                                                                                |  | Total Depth<br>6250     |  | Flow Back TD<br>6200   |  | Elevation<br>7292                             |  |
| Casing Size<br>4.500                                                                                                      |  | WT.<br>10.5             |  | Set At<br>6230         |  | Perforations:<br>From 6001 To 6030            |  |
| Tub. Size<br>2.375                                                                                                        |  | WT.<br>4.7              |  | Set At<br>6010         |  | Perforations:<br>From Open To Ended           |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |  |                         |  | Fucker Set At<br>None  |  | County<br>Rio Arriba                          |  |
| Producing Thru<br>Tubing                                                                                                  |  | Reservoir Temp. °F<br>8 |  | Mean Annual Temp. °F   |  | Baro. Press. - P <sub>a</sub><br>11 psia est. |  |
| L                                                                                                                         |  | H                       |  | Gg .650<br>(est)       |  | State<br>New Mexico                           |  |
|                                                                                                                           |  |                         |  | % CO <sub>2</sub>      |  | % H <sub>2</sub>                              |  |
|                                                                                                                           |  |                         |  | % H <sub>2</sub> S     |  | Prover                                        |  |
|                                                                                                                           |  |                         |  |                        |  | Meter Run                                     |  |
|                                                                                                                           |  |                         |  |                        |  | 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. |                  |
| 1.        | 8 days           |      |              |                 |                      |             | 1088            |             | 1097            |                  |
| 2.        | 2 inch           | .750 |              | 103             |                      |             | 103             | 48°         | 292             |                  |
| 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 F <sub>sc</sub> | Rate of Flow Q, Mcfd |
| 1.                        | 12.3650               |                  | 115                     | 1.0117               | .9608             |                                        | 1397                 |
| 2.                        |                       |                  |                         |                      |                   |                                        |                      |
| 3.                        |                       |                  |                         |                      |                   |                                        |                      |
| 4.                        |                       |                  |                         |                      |                   |                                        |                      |
| 5.                        |                       |                  |                         |                      |                   |                                        |                      |

  

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

  

| NO. | P <sub>t</sub> <sup>2</sup> | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>t</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | (1) $\frac{P_t^2}{P_t^2 - P_w^2} = 1.0812$ | (2) $\left[ \frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1.0603$ |
|-----|-----------------------------|----------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------|
| 1.  |                             | 304            | 92,416                      | 1,137,465                                                 |                                            |                                                             |
| 2.  |                             |                |                             |                                                           |                                            |                                                             |
| 3.  |                             |                |                             |                                                           |                                            |                                                             |
| 4.  |                             |                |                             |                                                           |                                            |                                                             |
| 5.  |                             |                |                             |                                                           |                                            |                                                             |

  

|                         |  |                |  |                  |  |              |  |
|-------------------------|--|----------------|--|------------------|--|--------------|--|
| Absolute Open Flow 1481 |  | Mcf/d @ 15.025 |  | Angle of Slope θ |  | Slope, n .75 |  |
|-------------------------|--|----------------|--|------------------|--|--------------|--|

  

Remarks: Slight Show of water and a good show of oil throughout test.

  

|                         |                |                |                 |
|-------------------------|----------------|----------------|-----------------|
| Approved By Commission: | Conducted By:  | Calculated By: | Checked By:     |
|                         | Joe F. Elledge | Joe F. Elledge | Mr. Lynn Hatley |