

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>12-30-76                         |                         |  |
| Company<br>Amerada Hess Corporation                                                                                       |                             |                                           |                             | Location<br>El Paso Natural Gas (Not Installed)           |                                                            |                                               |                         |  |
| Pool<br>Basin                                                                                                             |                             |                                           |                             | Formation<br>Dakota                                       |                                                            | Unit                                          |                         |  |
| Completion Date<br>12-20-76                                                                                               |                             | Total Depth<br>6760                       |                             | Plug Back TD<br>6610                                      |                                                            | Elevation<br>6561 GL                          |                         |  |
| Csg. Size<br>5 1/2"                                                                                                       |                             | Wt.<br>15.5                               |                             | Set At<br>4.950                                           |                                                            | Perforations:<br>From 6414 To 6578            |                         |  |
| Thg. Size<br>1 1/2"                                                                                                       |                             | Wt.<br>2.9                                |                             | Set At<br>1.610                                           |                                                            | Perforations:<br>From Open To Ended           |                         |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single                                                         |                             |                                           |                             |                                                           |                                                            | Packer Set At<br>None                         |                         |  |
| Producing Thru<br>Tubing                                                                                                  |                             | Reservoir Temp. °F<br>a                   |                             | Mean Annual Temp. °F                                      |                                                            | Baro. Press. - P <sub>a</sub><br>12.0         |                         |  |
| L<br>6546                                                                                                                 |                             | H<br>6546                                 |                             | G <sub>g</sub><br>.695                                    |                                                            | % CO <sub>2</sub>                             |                         |  |
|                                                                                                                           |                             |                                           |                             |                                                           |                                                            | % N <sub>2</sub>                              |                         |  |
|                                                                                                                           |                             |                                           |                             |                                                           |                                                            | % H <sub>2</sub> S                            |                         |  |
|                                                                                                                           |                             |                                           |                             |                                                           |                                                            | Prover                                        |                         |  |
|                                                                                                                           |                             |                                           |                             |                                                           |                                                            | Meter Run                                     |                         |  |
|                                                                                                                           |                             |                                           |                             |                                                           |                                                            | Taps                                          |                         |  |
| FLOW DATA                                                                                                                 |                             |                                           |                             | TUBING DATA                                               |                                                            | CASING DATA                                   |                         |  |
| 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                                   | Duration<br>of<br>Flow  |  |
| SI                                                                                                                        |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| 1.                                                                                                                        | Pos. Ch. 0.750              |                                           |                             | 63                                                        |                                                            | 61                                            | 168 hrs.                |  |
| 2.                                                                                                                        |                             |                                           |                             |                                                           |                                                            |                                               | 3 hrs.                  |  |
| 3.                                                                                                                        |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| 4.                                                                                                                        |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| 5.                                                                                                                        |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| RATE OF FLOW CALCULATIONS                                                                                                 |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| NO.                                                                                                                       | Coefficient<br>(24 Hour)    | $\sqrt{h_w P_m}$                          | Pressure<br>P <sub>m</sub>  | Flow Temp.<br>Factor<br>F <sub>t</sub>                    | Gravity<br>Factor<br>F <sub>g</sub>                        | Super<br>Compress.<br>Factor, F <sub>pv</sub> | Rate of Flow<br>Q, Mcfd |  |
| 1                                                                                                                         | 12.3650                     |                                           | 75                          | .9990                                                     | .9292                                                      | 1.0                                           | 861                     |  |
| 2                                                                                                                         |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| 3                                                                                                                         |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| 4                                                                                                                         |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| 5                                                                                                                         |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| NO.                                                                                                                       | P <sub>t</sub>              | Temp. °R                                  | T <sub>t</sub>              | Z                                                         | Gas Liquid Hydrocarbon Ratio <u>108</u> Mcf/bbl.           |                                               |                         |  |
|                                                                                                                           |                             |                                           |                             |                                                           | A.P.I. Gravity of Liquid Hydrocarbons <u>52</u> Deg.       |                                               |                         |  |
| 1                                                                                                                         |                             |                                           |                             |                                                           | Specific Gravity Separator Gas <u>.695</u> X X X X X X X X |                                               |                         |  |
| 2                                                                                                                         |                             |                                           |                             |                                                           | Specific Gravity Flowing Fluid X X X X X                   |                                               |                         |  |
| 3                                                                                                                         |                             |                                           |                             |                                                           | Critical Pressure <u>668</u> P.S.I.A. P.S.I.A.             |                                               |                         |  |
| 4                                                                                                                         |                             |                                           |                             |                                                           | Critical Temperature <u>392</u> R R                        |                                               |                         |  |
| 5                                                                                                                         |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| P <sub>c</sub> <u>1599</u>                                                                                                |                             | P <sub>c</sub> <sup>2</sup> <u>2556.8</u> |                             | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.260$                 |                                                            |                                               |                         |  |
| NO.                                                                                                                       | P <sub>t</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> | (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.843$ |                                               |                         |  |
| 1                                                                                                                         |                             | 1194                                      | 1425.6                      | 1131.2                                                    |                                                            |                                               |                         |  |
| 2                                                                                                                         |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| 3                                                                                                                         |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| 4                                                                                                                         |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| 5                                                                                                                         |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| Absolute Open Flow <u>1,587</u> Mcfd @ 15.025                                                                             |                             |                                           |                             |                                                           | Angle of Slope $\theta$ <u>.75</u>                         |                                               |                         |  |
| Remarks: <u>Initial test prior to connection for sales.</u>                                                               |                             |                                           |                             |                                                           |                                                            |                                               |                         |  |
| Approved By Commission:                                                                                                   |                             | Conducted By:                             |                             | Calculated By:                                            |                                                            | Checked By:<br>G. B. Miller                   |                         |  |