

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

Form C-122

| | | | | | | | | | |
|--|--|-----------------------------|--|-------------------------------|--|--|--|---|--|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special | | | | | | Test Date July 5, 1995 | | | |
| Company Williams Production Company | | | | Connection | | | | | |
| Pool Blanco | | | | Formation Mesaverde | | | | Unit Rosa | |
| Completion Date 6-24-95 | | Total Depth 5945' | | Plug Back TD 5921' | | Elevation 6268' | | Farm or Lease Name | |
| Casing Size | | Weight d | | Set At | | Perforations: From To | | Well No. 41A | |
| Tubing Size | | Weight d | | Set at | | Perforations: From To | | Unit Sec Twp Rng J 05 31N 5W | |
| Type Well - Single - Bradenhead - GG or GO Multiple | | | | Packer Set At | | | | County Rio Arriba | |
| Producing Thru Tubing | | Reservoir Temp. °F | | Mean Annual Temp. °F | | Barometer Pressure - P_a | | State New Mexico | |
| L | | H | | Gq .6 | | %CO₂ | | %N₂ | |
| | | | | | | %H₂S | | Prover 3/4" | |
| | | | | | | | | Meter Run | |
| | | | | | | | | Taps | |

| FLOW DATA | | | | | TUBING DATA | | CASING DATA | | |
|-----------|---------------|--------------|-------------------|----------------|-------------------|----------------|-------------------|----------------|-------------|
| NO. | Prover X Line | Orifice Size | Pressure p.s.i.q. | Temperature °F | Pressure p.s.i.q. | Temperature °F | Pressure p.s.i.q. | Temperature °F | Duration of |
| SI | | 2" X 3/4" | | | 1065 | | 1066 | | 0 |
| 1. | | | | | 221 | 63° | 571 | | 0.5 hr |
| 2. | | | | | 166 | 69° | 419 | | 1.0 hr |
| 3. | | | | | 141 | 73° | 360 | | 1.5 hrs |
| 4. | | | | | 125 | 74° | 324 | | 2.0 hrs |
| 5. | | | | | 106 | 74° | 291 | | 3.0 hrs |

OIL CON. DIV.

| RATE OF FLOW CALCULATIONS | | | | | | | |
|---------------------------|-----------------------|------------------|-------------------------|-------------------|----------------|-----------------|--------------|
| NO. | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P _m | Flow Temp. Factor | Gravity Factor | Super Compress. | Rate of Flow |
| 1. | 9.604 | | 118 | .9868 | 1.29 | 1.016 | 1.466 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |

| NO. | P _r | Temp. °R | T _r | Z |
|-----|----------------|----------|----------------|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |

| P_c 1078 P_c² 1162084 | | | | |
|--|-----------------------------|----------------|-----------------------------|---|
| NO. | P _r ¹ | P _w | P _w ² | P _c ² - P _w ² |
| 1. | | 303 | 91809 | 1070275 |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |

| | |
|---|--|
| Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl. | |
| A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. | |
| Specific Gravity Separator _____ XXXXXX | |
| Specific Gravity Flowing Fluid <u>xxxxx</u> | |
| Critical Pressure _____ p.s.i.a. p.s.i.a. | |
| Critical Temperature _____ R R | |

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.0858}{1.0637}$$

$$AOF = Q \left[\frac{P_c}{P_c^2 - P_w^2} \right] = 1559$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0637$$

| | | | | | |
|---|--|-------------------------|--|---------------------|--|
| Absolute Open Flow 1559 Mcfd @ 15.025 | | Angle of Slope ° | | Slope, n .75 | |
|---|--|-------------------------|--|---------------------|--|

| | | | |
|---|--|----------------------|--|
| Remarks: | | | |
| Approved By Commission: | | Conducted By: | |
| Calculated By: Susan Griguin <i>SG</i> | | Checked By: | |