

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 10/16/94 | | | |
| Company NORTHWEST PIPELINE CORPORATION | | | | | | Connection WILLIAMS PRODUCTION COMPANY | | | |
| Pool BLANCO | | | | | | Formation MESAVERDE | | Unit ROSA | |
| Completion Date 10/01/94 | | Total Depth 6084' | | Plug Back TD 6060' | | Elevation 6385' | | Farm or Lease Name ROSA UNIT | |
| Casing Size | | Weight d | | Set At | | Perforations: From To | | Well No. #145A | |
| Tubing Size | | Weight d | | Set at | | Perforations: From To | | Unit Sec Twp Rng D 16 31N 06W | |
| Type Well - Single - Bradenhead - GG or GO Multiple | | | | Packer Set At 4011' | | County SAN JUAN | | | |
| Producing Thru TUBING | | Reservoir Temp. °F | | Mean Annual Temp. °F | | Barometer Pressure - P_a | | State NEW MEXICO | |
| L | H | Gg | %CO ₂ | | %N ₂ | | %H ₂ S | Prover | Meter Run 2" |
| | | | | | | | | | |
| FLOW DATA | | | | | TUBING DATA | | | CASING DATA | |
| NO. | Prover X Line Size | Orifice Size | Pressure p.s.i.g. | Temperature °F | Pressure p.s.i.g. | Temperature °F | Pressure p.s.i.g. | Temperature °F | Duration of Flow |
| SI | 2" X 3/4" | | | | 1123 | | | | 0 |
| 1. | | | | | 268 | 56 | | | 0.5 HRS |
| 2. | | | | | 249 | 56 | | | 1.0 HRS |
| 3. | | | | | 247 | 58 | | | 1.5 HRS |
| 4. | | | | | 241 | 59 | | | 2.0 HRS |
| 5. | | | | | 238 | 60 | | | 3.0 HRS |
| RATE OF FLOW CALCULATIONS | | | | | | | | | |
| NO. | Coefficient (24 Hour) | √h _w P _m | Pressure P _i | Flow Temp. Factor Ft | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd | | |
| 1. | 9.604 | | 250 | 1.0 | 1.270 | 1.025 | 3.126 | | |
| 2. | | | | | | | | | |
| 3. | | | | | | | | | |
| 4. | | | | | | | | | |
| 5. | | | | | | | | | |
| NO. | P _i | Temp. °R | T _i | Z | Gas Liquid Hydrocarbon Ration _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator GAS _____ XXXXXXXX Specific Gravity Flowing Fluid _____ xxxxx Critical Pressure _____ p.s.i.a. _____ p.s.i.a. Critical Temperature _____ R _____ R | | | | |
| 1. | | | | | | | | | |
| 2. | | | | | | | | | |
| 3. | | | | | | | | | |
| 4. | | | | | | | | | |
| 5. | | | | | | | | | |
| P _c _____ P _c ² _____ | | | | | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.051}{1.051 - 1.225} = 1.043$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.043$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.261$ | | | | |
| NO. | P _i ² | P _w | P _w ² | P _c ² - P _w ² | | | | | |
| 1. | | 250 | 62.500 | 1.225.725 | | | | | |
| 2. | | | | | | | | | |
| 3. | | | | | | | | | |
| 4. | | | | | | | | | |
| Absolute Open Flow 3,261 Mcfd @ 15.025 | | | | | Angle of Slope ° _____ Slope, n 0.85 | | | | |
| Remarks: _____ | | | | | | | | | |
| Approved By Commission: | | | Conducted By: C. CHARLEY | | Calculated By: MARK MCCALLISTER | | Checked By: | | |