

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

MAY 21 1981

| | | | |
|--|-------------------------------------|----------------------------|---------------------------------------|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual | Special <input type="checkbox"/> | Test Date 5-11-81 | 1650 FSL |
| Company JACK McCLELLAN, OIL Corp. | Connection AIR - NEW WELL | 660 FWL | |
| Pool Willcat | Formation ABO | Unit E | ARTESIA, C.M. |
| Completion Date MAY 5, 1981 | Total Depth 4078 | Plug Back TD 4000 4066 | Elevation 3766 ft. |
| Caq. Size 4.5 | Wt. 10.5 | Set At 4000 | Perforations From 3561 To 3746 |
| Thq. Size 2.375 | Wt. 4.7 | Set At 3506 | Perforations From OPEN To ENDED |
| Type Well - Single - Bradenhead - G.C. or G.O. Multiple SINGLE | | Packer Set At NONE | County CHAVES |
| Producing Thru TUBING | Reservoir Temp. °F 96 @ 3653 | Mean Annual Temp. °F 60 | Baro. Press. - P _a 13.2 |
| L 3.653 | H 3653 | G _g .6961 | % CO ₂ .149 |
| | | % N ₂ 18.889 | % H ₂ S |
| | | Prover | Meter Run 4" |
| | | | Tops FLANGE |
| Farm or Lease Name COYOTE DRAW FED. | | Well No. 1 | Unit Sec. Twp. Hys. L 6 8 25E |
| State NEW MEXICO | | State NEW MEXICO | |

| NO. | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. hw | Temp. °F | TUBING DATA | | CASING DATA | | Duration of Flow |
|-----|------------------|---|--------------|-----------------|----------|----------|-----------------|----------|-----------------|----------|------------------|
| | | | | | | | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F | |
| SI | | | | | | | 884 | 76 | | | 91 HOURS |
| 1. | 4 | X | 1.25 | 445 | 2.2 | 96 | 848 | 78 | 975 | | 1 |
| 2. | 4 | X | 1.25 | 442 | 4.0 | 100 | 800 | 80 | 925 | | 1 |
| 3. | 4 | X | 1.25 | 447 | 9. | 104 | 722 | 84 | 850 | | 1 |
| 4. | 4 | X | 1.25 | 443 | 19.2 | 98 | 601 | 86 | 425 | | 1 |
| 5. | | | | | | | | | | | |

| NO. | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P _m | Flow Temp. Factor Ft. | Gravity Factor F _g | Super Compress. Factor, F _{pv} | Rate of Flow O, Mc/d |
|-----|-----------------------|------------------|-------------------------|-----------------------|-------------------------------|---|----------------------|
| | | | | | | | |
| 2. | 7.661 | 42.67 | 455.2 | .9636 | 1.1987 | 1.0244 | 387. |
| 3. | 7.661 | 64.36 | 460.2 | .9602 | 1.1987 | 1.0228 | 580. |
| 4. | 7.661 | 93.59 | 456.2 | .9653 | 1.1987 | 1.0244 | 850. |
| 5. | | | | | | | |

| NO. | R | Temp. °R | T _r | Z | Gas Liquid Hydrocarbon Ratio | | Rate of Flow |
|-----|-----|----------|----------------|------|------------------------------|------|--------------|
| | | | | | Mcf/bbl. | Deg. | |
| 1 | .72 | 556 | 1.66 | .952 | | | |
| 2. | .71 | 560 | 1.67 | .953 | | | |
| 3. | .72 | 564 | 1.69 | .956 | | | |
| 4. | .72 | 558 | 1.67 | .953 | | | |
| 5 | | | | | | | |

| NO. | P _i ² | P _w | P _w ² | P _e ² - P _w ² | AOF = Q [$\frac{P_e^2}{P_e^2 - P_w^2} $] ⁿ |
|-----|-----------------------------|----------------|-----------------------------|---|---|
| | | | | | |
| 2 | | 908.8 | 825.9 | 181.1 | |
| 3 | | 823.2 | 677.7 | 329. | |
| 4 | | 695.5 | 483.7 | 523. | |
| 5 | | | | | |

Absolute Open Flow 1,378.5 Mc/d @ 15.025 Angle of Slope 53.6 Slope, n .7385

Remarks:

Approved By Division _____ Conducted By: DON BENNETT Calculated By: WOHLFORD & JENKINS Checked By: _____

