NEW MEXICO OIL CONSERVATION COMMSSION

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

| | | | | |
|---|---|---|---|---|
| Type Test: [X] Initial [ ] Annual [ ] Special | | | Test Date: 1-3-79 | |
| Company: Amoco Production Company | | Connection: El Paso Natural Gas Company | | |
| Pool: Aztec | | Formation: Pictured Cliffs | | Unit |
| Completion Date: 12/28/78 | Total Depth: 2652 | Plug Back TD: 2608 | Elevation: 5792 | Farm or Lease Name: Wallace Gas Com |
| Csg. Size: 4.5 / Wt.: 10.5 / d: 4.052 / Set At: 2651 | | Perforations: From 2415 To 2488 | | Well No.: 3 |
| Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 2504 | | Perforations: From Open To Ended | | Unit: H / Sec.: 3 / Twp.: 31N / Rge.: 11W |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single | | Packer Set At: None | | County: San Juan |
| Producing Thru: Tubing | Reservoir Temp. °F: @ | Mean Annual Temp. °F | Baro. Press. – $P_a$ | State: New Mexico |
| L | H | Gg: .65 | % $CO_2$ | % $N_2$ / % $H_2S$ / Prover / Meter Run / Taps |

## FLOW DATA

| NO. | Prover Line Size | X Orifice Size | Press. p.s.i.g. | Diff. $h_w$ | Temp. °F | TUBING DATA Press. p.s.i.g. | TUBING DATA Temp. °F | CASING DATA Press. p.s.i.g. | CASING DATA Temp. °F | Duration of Flow |
|---|---|---|---|---|---|---|---|---|---|---|
| SI | 7 Days | | | | | 690 | | 690 | | |
| 1. | 2.375 | .750 | | | | 217 | 60 | 322 | | 3 Hrs. |
| 2. | | | | | | | | | | |
| 3. | | | | | | | | | | |
| 4. | | | | | | | | | | |
| 5. | | | | | | | | | | |

## RATE OF FLOW CALCULATIONS

| NO. | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure $P_m$ | Flow Temp. Factor Ft. | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
|---|---|---|---|---|---|---|---|
| 1 | 12.365 | | 229 | 1.0 | .9608 | 1.024 | 2786 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_t$ | Temp. °R | $T_r$ | Z |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

$P_c$ 702 $P_c^2$ 492804

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 334 | 111556 | 381248 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2926$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2438$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3465$

Absolute Open Flow 3465 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: _____

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | R. A. Conner | R. A. Conner | J. L. Krupka |