NEW MEXICO OIL CONSERVATION COMMISSION

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
FEB 06 1984
OIL CON. DIV.
DIST. 3

| | | | | | |
|---|---|---|---|---|---|
| Type Test: [X] Initial [ ] Annual [X] Special | | | | Test Date: 1-18-84 | |
| Company: Amoco Production Company | | | Connection: Not dedicated | | Unit |
| Pool: Basin | | | Formation: Dakota | | |
| Completion Date: 12-23-83 | Total Depth: 7993 | | Plug Back TD: 7966 | Elevation: 6904 GL | Farm or Lease Name: Jicarilla Apache Tribal 151 |
| Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052 / Set At: 7993 | | | Perforations: From 7745 To 7944 | | Well No.: 3E |
| Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 7957 | | | Perforations: From open To ended | | Unit: J / Sec.: 4 / Twp.: 26 / Rge.: 5 |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single | | | Packer Set At: None | | County: Rio Arriba |
| Producing Thru: Tubing | Reservoir Temp. °F: e | Mean Annual Temp. °F | Baro. Press. – $P_a$ | | State: New Mexico |
| L | H | Gg | % $CO_2$ | % $N_2$ | % $H_2S$ / Prover / Meter Run / Taps |

| FLOW DATA | | | | | TUBING DATA | | CASING DATA | | |
|---|---|---|---|---|---|---|---|---|---|
| NO. | Prover Line Size X Orifice Size | Press. p.s.i.g. | Diff. $h_w$ | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F | Duration of Flow |
| SI | 14 Days | | | | 2300 | | 2318 | | |
| 1. | 2.375 .750 | | | | 70 | | 430 | | 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 | | 82 | 1.000 | .9258 | 1.009 | 947 |
| 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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

$P_c$ 2330 $P_c^2$ 5428900

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 442 | 195364 | 5233536 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0373$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0279$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 973$

Absolute Open Flow 973 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Med water mist. No flare.
Trace of oil.

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | J. J. Barnett | J. J. Barnett | |