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 [X] Special | | | | Test Date: 3-1-82 | |
| Company: Amoco Production Company | | Connection: El Paso Natural Gas Company | | | |
| Pool: Basin | | Formation: Dakota | | Unit | |
| Completion Date: 2-15-82 | Total Depth: 6083 | Plug Back TD: 6036 | Elevation: 5707 GL | Farm or Lease Name: Gallegos Canyon Unit | |
| Csg. Size: 4.500 / Wt.: 10.50 / d: 4.052 / Set At: 6083 | | Perforations: From 5932 To 5988 | | Well No.: 186E | |
| Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 5968 | | Perforations: From open To ended | | Unit: N / Sec.: 33 / Twp.: 28N / Rge.: 12W | |
| 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 | % $CO_2$ | % $N_2$ | % $H_2S$ / 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 | 7 Days | | | | | 1227 | | 1237 | | |
| 1. | 2.375 | .750 | | | | 230 | | 777 | | |
| 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 | | 242 | 1.000 | .9258 | 1.028 | 2848 |
| 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

$P_c$ 1249 $P_c^2$ 1560001

| NO | $P_t$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 789 | 622521 | 937480 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6640$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2961$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3691$

Absolute Open Flow 3691 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: _____

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