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: 05 13 80 | |
| Company: AMOCO PRODUCTION CO. | | Connection: ELPASO NATURAL GAS COMPANY | | | |
| Pool: BASIN | | Formation: DAKOTA | | Unit | |
| Completion Date: 04 28 80 | Total Depth: 6297 | Plug Back TD: 6217 | Elevation: 5405 GL | Farm or Lease Name: MASDEN GAS COM | |
| Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052 / Set At: 6297 | | Perforations: From 6034 To 6166 | | Well No.: 1E | |
| Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 6167 | | Perforations: From open To ended | | Unit: D / Sec.: 28 / Twp.: 29N / 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 | % $CO_2$ | % $N_2$ | % $H_2S$ | 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 | 11 days | | | | 970 | | 1120 – | | 3 hrs |
| 1. | 2.375 .750 | | | | 20 | | 176 | | |
| 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 | | 32 | 1.000 | .9258 | 1.004 | 368 |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |

| NO. | $P_t$ | Temp. °R | $T_t$ | 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

$P_c$ 1132 $P_c^2$ 1281424

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 188 | 35344 | 1246080 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0284$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0212$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 376$

Absolute Open Flow 376 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: _____

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | JJB | J J BARNETT | R. A. DOWNEY |