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: 1/16/78 | |
| Company: Amoco Production Company | Connection: El Paso Natural Gas Company | | | |
| Pool: Blanco | Formation: Mesaverde | | | Unit |
| Completion Date: 1/7/78 | Total Depth: 4650 | Plug Back TD: 4601 | Elevation: 5676 | Farm or Lease Name: W. D. Heath "A" |
| Csg. Size: 7.000 / Wt.: 20 / d: 6.456 / Set At: 2541 | | Perforations: From 3784 To 4502 | | Well No.: 2A |
| Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 4505 | | Perforations: From Open To Ended | | Unit: I / Sec.: 17 / Twp.: 29 / Rge.: 9 |
| 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 |
|---|---|---|---|---|---|---|---|---|
| | | .65 | | | | | | |

| | 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 | 9 days | | | | | 532 | | 626 | | |
| 1. | 2.375 | 0.750 | | | | 200 | 60 | 490 | | 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 | | 212 | 1.000 | .9608 | 1.021 | 2572 |
| 2. | | | | | | | |
| 3. | | | | | | | |
| 4. | | | | | | | |
| 5. | | | | | | | |

| NO. | $P_r$ | 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

$P_c$ 638 $P_c^2$ 407044

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 502 | 252004 | 155040 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.6254$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.0625$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5305$

Absolute Open Flow 5305 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: 4.5", 11.6 Liner set @ 2327' - 4650'

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | T. M. Oliver | TMO/TDB | J. L. Krupka |