NEW MEXICO OIL CONSERVATION COMMSSION

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JAN 28 1985
OIL CON. DIV.
DIST. 3

| | | | | |
|---|---|---|---|---|
| Type Test: [X] Initial [ ] Annual [X] Special | | | Test Date: 1/3/85 | |
| Company: Amoco Production Company | Connection: El Paso Natural Gas | | | |
| Pool: Blanco | Formation: Mesa Verde | | | Unit |
| Completion Date: 12/17/84 | Total Depth: 4905 | Plug Back TD: 4844 | Elevation: 5801 GL | Farm or Lease Name: L.C. Kelly |
| Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052 / Set At: 4705 | | Perforations: From 4486 To 4678 | | Well No.: 6A |
| Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 4705 | | Perforations: From open To ended | | Unit: D / Sec.: 11 / Twp.: 30 / Rge.: 12 |
| 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 | Tubing Press. p.s.i.g. | Tubing Temp. °F | Casing Press. p.s.i.g. | Casing Temp. °F | Duration of Flow |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SI | 15 days | | | | | | 1145 | | 1145 | | |
| 1. | 2.375 | | .750 | | | | 216 | | 717 | | 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 | | 228 | 1.000 | .9258 | 1.027 | 2681 |
| 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

$P_c$ 1157 $P_c^2$ 1338649

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | 729 | 531441 | 807208 | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6584$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.4614$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3918$

Absolute Open Flow 3918 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: x Heavy $H_2O$

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