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 | |
| Company: Amoco Production Company | | | Connection: Northwest Pipeline Corporation | | |
| Pool: South Blanco | | | Formation: Pictured Cliffs | | Unit |
| Completion Date: 5-7-75 | Total Depth: 7698 | | Plug Back TD: 3275 | Elevation: 6937 Gl | Farm or Lease Name: Jicarilla Contract 146 |
| Csg. Size: 5.500 / Wt.: 14 / d: 5.012 / Set At: 7698 | | | Perforations: From 3140 To 3164 | | Well No.: 9 |
| Tbg. Size: 2.375 / Wt.: 4.70 / d: 1.995 / Set At: 3166 | | | Perforations: From Open To Ended | | Unit: M / Sec.: 10 / Twp.: 25 / Rge.: 5 |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single | | | Packer Set At | | County: Rio Arriba |
| 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 | | | | | 627 | | 621 | | |
| 1. | 2" | 0.750 | | | | 176 | 60° | 320 | | 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 | 12.3650 | | 188 | 1.000 | .9608 | 1.011 | 2258 |
| 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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

$P_c$ 639 $P_c^2$ 408,321

| NO | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|
| 1 | 332 | 110,224 | 298,098 |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3698$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3066$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2950$

Absolute Open Flow 2950 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

Original Signed by R. E. McCLESKEY

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | T. M. Oliver | T. M. Oliver | R. E. McCleskey |