STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
OCT 12 1984
OIL CON. DIV
DIST. 3

| | | | | | |
|---|---|---|---|---|---|
| Type Test: ☒ Initial ☐ Annual ☐ Special | | | | Test Date: 9-25-84 | |
| Company: Consolidated Oil & Gas, Inc. | | | Connection: Northwest Pipeline | | Unit |
| Pool: Wildhorse Gallup Ext. | | | Formation: Gallup | | |
| Completion Date: 9-1-84 | Total Depth: 8210 | | Plug Back TD: 8160 | Elevation: 7012 GR | Farm or Lease Name: Tribal "C" |
| Csg. Size: 5 1/2 / Wt.: 15.5 / d: 4.950 | Set At: 8197 | | Perforations: From 7111 To 7580 | | Well No.: 1E |
| Tbg. Size: 1 1/2 / Wt.: 2.76 / d: 1.610 | Set At: 7579 | | Perforations: From To | | Unit: F / Sec.: 6 / Twp.: 26N / Rge.: 3W |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual gas | | | Packer Set At: 7690 | | County: Rio Arriba |
| Producing Thru | 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 | 9-18-84 | | | | 1346 | 60 | 1476 | 60 | |
| 1. | 3/4x2"x6" pos. choke | | | 60 | 68 | | 454 | | 3 hour |
| 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 | 11.00 | | 80 | 1.000 | 1.24 | 1.000 | 1091 |
| 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

$P_c$ 1488 $P_c^2$ 2214144

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | 6400 | 466 | 217156 | 1996988 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1087$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0805$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1179$

Absolute Open Flow 1179 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n _____

Remarks: _____

Approved By Division | Conducted By: | Calculated By: | Checked By: