NEW MEXICO OIL CONSERVATION COMMISSION

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

| | | | | | |
|---|---|---|---|---|---|
| Type Test: [XX] Initial [ ] Annual [ ] Special | | | | Test Date: 10-9-81 | |
| Company: Curtis J. Little | | | Connection: El Paso | | |
| Pool: Ballard | | | Formation: Pictured Cliff | | Unit |
| Completion Date: 9-18-81 | Total Depth: 2346 | | Plug Back TD: 2330 | Elevation: 6334 GL | Farm or Lease Name: Grevey |
| Csg. Size: 2.875 / Wt.: 6.5 / d: 2.441 / Set At: 2342 | | | Perforations: From 2186 To 2264 | | Well No.: 2 |
| Tbg. Size: Slim / Wt.: Hole / d: / Set At: | | | Perforations: From To | | Unit: O / Sec.: 4 / Twp.: 25N / Rge.: 7W |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single | | | Packer Set At: None | | County: Rio Arriba |
| Producing Thru: Casing | Reservoir Temp. °F: | | Mean Annual Temp. °F: | Baro. Press. – $P_a$: 12 est | State: New Mexico |
| L: | H: | Gg: .650 | % $CO_2$: | % $N_2$: | % $H_2S$: |
| 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 | | | | | | | 522 | | |
| 1. | 2 inch | .750 | | | | | | 16 | 60° | 3 hours |
| 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 | | 28 | 1.0000 | .9608 | 1.007 | 335 |
| 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 _____ XXXX XXXX
Specific Gravity Flowing Fluid _____ XXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

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$P_c$ 534 $P_c^2$ 285156

| NO | $P_t$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 34 | 1123 | 284033 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.00395$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.00335$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 336$

Absolute Open Flow 336 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: Dry gas throughout test

| Approved by Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | Joe Elledge | Joe Elledge | Curtis J. Little |