Submit in duplicate to appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

RECEIVED

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Operator | DEVON ENERGY | | | | Lease or Unit Name | STRAWBERRY 7 FED | | | |
| Type Test: ☑ Initial ☐ Annual ☐ Special | | | | | Test Date: 1/10/02 | Well No.: 1 | | | |
| Completion Date: 12/28/01 | Total Depth | | | Plug Back TD | Elevation | Unit Ltr - Sec - TWP - Rge: 7 19S 31E | | | |
| Csg. Size | Wt. | d | Set At | Perforations: From: 11772 To: 11802 | | County: EDDY | | | |
| Tbg. Size: 2 7/8 | Wt.: 6.5 | d: 2.441 | Set At: 11825 | Perforations: From: To: | | Pool | | | |
| Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE | | | | Packer Set At: 11825 | | Formation | | | |
| Producing Thru: Tubing | Reservoir Temp.°F | Mean Annual Temp. °F: 60 | | Baro. Press.-$P_a$: 13.2 | | Connection: SALES | | | |
| L: 11866 | H: 11866 | Gg: 0.679 | %$CO_2$: 0.511 | %$N_2$: 0.567 | %$H_2S$: N/A | Prover: N/A | Meter Run: 4.026 | | Taps: FLG |

| | 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 | | | | | 3700 | N/A | PKR | N/A | |
| 1 | 4.026 X 1.750 | 407 | 44.6 | 65 | 2382 | | | | 1 HR |
| 2 | 4.026 X 1.750 | 411 | 52.9 | 76 | 2199 | | | | 1 HR |
| 3 | 4.026 X 1.750 | 416 | 65.3 | 73 | 2054 | | | | 1 HR |
| 4 | 4.026 X 1.750 | 416 | 74.4 | 73 | 1970 | | | | 1 HR |
| 5 | | | | | | | | | |

## RATE OF FLOW CALCULATIONS

| No. | COEFFICIENT (24 Hour) | $\sqrt{h_w P_m}$ | Pressure $P_m$ | Flow Temp. Factor Ft. | Gravity Factor $F_g$ | Super Compress Factor F pv | Rate of Flow Q. Mcfd |
|---|---|---|---|---|---|---|---|
| 1 | | | | | | | 2584 |
| 2 | | | | | | | 2862 |
| 3 | TOTAL | FLOW | METER | | | | 3150 |
| 4 | | | | | | | 3351 |
| 5 | | | | | | | |

| No. | $P_r$ | Temp. °R | $T_r$ | Z |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | TOTAL | FLOW | METER | |
| 4 | | | | |
| 5 | | | | |

Gas Liquid Hydrocarbon Ratio: 33.186 Mcf bbl.
A.P. I. Gravity of Liquid Hydrocarbons: 54.2 Deg.
Specific Gravity Separator Gas: 0.679 XXXXXXX
Specific Gravity Flowing Fluid: XXXXX G MIX = .785
Critical Pressure: 672 P.S.I.A. 669 P.S.I.A.
Critical Temperature: 384 R. 414 R

$P_c$: 3713.2 $P_c2$: 13787.9

| No. | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | 5737 | 2410.5 | 5810.4 | 7977.5 |
| 2 | 4893.8 | 2232.1 | 4982.1 | 8805.8 |
| 3 | 4273.3 | 2092.6 | 4379 | 9408.8 |
| 4 | 3933.1 | 2013 | 4052.2 | 9735.7 |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 1.416

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1.416

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 4.746

Absolute Open Flow: 4.746 Mcfd @ 15.025 | Angle of Slope (): 45 | Slope n: 1

Remarks: * WELL MADE 15 BBLS OF 54.2 API GRAVITY CONDENSATE DURING TEST.

| Approved By Division: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | PRO WELL TESTING | MERV BUECKER | BM |