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: 3-19-80 | |
| Company: El Paso ~~Exploration~~ Natural Gas Co | | Connection: | | | |
| Pool: Blanco | | Formation: Mesa Verde | | Unit: San Juan | |
| Completion Date: 1-3-80 | Total Depth: 6704 | Plug Back TD: 6686 | Elevation: | Farm or Lease Name: 27-4 Unit | |
| Csg. Size: 4.500 / Wt.: 10.5 / d: 4.052 / Set At: 6704 | | Perforations: From 5747 To 6648 | | Well No.: #120 | |
| Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 6624 | | Perforations: From To | | Unit: K / Sec.: 34 / Twp.: 27 / Rge.: 4 | |
| Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Dual G.G. (PM) | | Packer Set At: 4116 | | County: Rio Arriba | |
| Producing Thru: Tub. | Reservoir Temp. °F: @ | Mean Annual Temp. °F: | Baro. Press. – $P_a$: | State: New Mexico | |
| L: 4321 | H: | Gg: | % $CO_2$: | % $N_2$: | % $H_2S$: |
| Prover: | Meter Run: 4" | Taps: XX | | | |

## FLOW DATA

| NO. | ~~Prover~~ Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. $h_w$ | Temp. °F | TUBING DATA Press. p.s.i.g. | TUBING DATA Temp. °F | CASING DATA Press. p.s.i.g. | CASING DATA Temp. °F | Duration of Flow |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SI | | | | | | | 1240 | | | | 76 Days |
| 1. | 4" X 2.750" | | | 280 | 2.80 | 48° | | | | | |
| 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 | 41.10 | 38.513 | | 1.0117 | 1.240 | 1.034 | 2053 |
| 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 .650 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure _____ P.S.I.A. P.S.I.A.
Critical Temperature _____ °R °R

$P_c$ 1252 $P_c^2$ 1567504

| NO | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | 85264 | 431 | 185761 | 1381743 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1344$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]$ 1.2693

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2257$

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DIST. 3

Absolute Open Flow 2257 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Well was tested thru a 3/4" variable choke, with a test unit, and vented 142MCF/D to the atmosphere during test.

| Approved By Commission: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | C.R. Wagner & M. Burton | C.R. Wagner | |