FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

# OPEN FLOW TEST DATA

DATE November 26, 1975

| | | | |
|---|---|---|---|
| Operator: El Paso Natural Gas Company | | Lease: Howell L #1A | |
| Location: 1075'N, 1100'W, Sec.23, T-30-N, R-8-W | | County: San Juan | State: New Mexico |
| Formation: Mesa Verde | | Pool: Blanco | |
| Casing: Diameter: 4.500 | Set At: Feet: 5545' | Tubing: Diameter: 2.375 | Set At: Feet: 5495' |
| Pay Zone: From: 4654' | To: 5522' | Total Depth: 5545' PBTD 5528' | Shut In: 11-10-75 |
| Stimulation Method: Sand Water Frac | | Flow Through Casing | Flow Through Tubing: XX |

| | | | |
|---|---|---|---|
| ~~Plate~~ XXX Choke Size, Inches: 2.500 4" M.R. | Choke Constant: C: 32.64 | | tested thru 3/4" variable choke |
| Shut-In Pressure, Casing, PSIG: 747 | + 12 = PSIA: 759 / Days Shut-In: 9 | Shut-In Pressure, Tubing PSIG: 747 | + 12 = PSIA: 759 |
| Flowing Pressure: P PSIG: WH 242 MR 55 | + 12 = PSIA: WH 254 MR 67 | Working Pressure: $P_w$ PSIG: 654 | + 12 = PSIA: 666 |
| Temperature: T= 49 °F Ft=1.011 | n = .75 | Fpv (From Tables): 1.010 | Gravity: .655 Fg = 1.236 |

CHOKE VOLUME = $Q = C \times P_t \times F_t \times F_g \times F_{pv}$

Q = calculated from orifice meter readings = 2455 MCF/D

OPEN FLOW = $Aof = Q \left( \frac{P_c^2}{P_c^2 \quad P_w^2} \right)^n$

$Aof = \left( \frac{576081}{132525} \right)^n = 2455\ (4.3469)^{.75} = 2455\ (3.0105)$

Aof = 7391 MCF/D

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DIST. 3

Note: during the test, 369.51 MCF of gas was vented to atmosphere.

TESTED BY Johnson and Norton

WITNESSED BY

Gary D. Brink

Well Test Engineer