

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE July 24, 1975

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|---|-----------------------|----------------------------------|-----------------------|
| Operator El Paso Natural Gas Company | | Lease San Juan 28-7 Unit #242 | |
| Location 1840/N, 1600'/W, Sec. 18, T28N, R7W | | County Rio Arriba | State New Mexico |
| Formation Dakota | | Pool Basin | |
| Casing: Diameter 4.500 | Set At: Feet 7994' | Tubing: Diameter 1.900 | Set At: Feet 7955' |
| Pay Zone: From 7755' | To 7961' | Total Depth: PBT 7994' 7985' | Shut In 6-29-75 |
| Stimulation Method Sandwater Frac | | Flow Through Casing XX | Flow Through Tubing |

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|-----------------------------------|------------------------|-------------------------------------|--------------------------------------|---|--|
| Choke Size, Inches 4" M.R. | Orifice 2.500 | Meter Choke Constant: C 32.64 | Well tested thru 3/4" variable choke | | |
| Shut-In Pressure, Casing, 2316 | PSIG | + 12 = PSIA 2328 | Days Shut-In 25 | Shut-In Pressure, Tubing 2324 | PSIG + 12 = PSIA 2336 |
| Flowing Pressure: P MR 74 | PSIG WH 257 | + 12 = PSIA MR 86 | WH 269 | Working Pressure: P _w 595 | PSIG + 12 = PSIA 607 |
| Temperature: T = 55 °F | F _t = 1.005 | n = .75 | | F _{pv} (From Tables) 1.012 | Gravity .650 F _g = 1.240 |

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

$$Q = \text{Calculated from meter readings} = 2776 \text{ MCF/D}$$

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

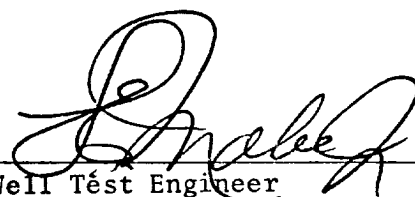
$$Aof = Q \left(\frac{5456895}{5088446} \right)^n = 2776(1.0724)^{.75} = 2776(1.0539)$$

$$Aof = 2926 \text{ MCF/D}$$

Note: The well vented 483 MCF. Well produced 19.57 Bbls of 59.2 API gravity oil.

TESTED BY Roger Hardy

WITNESSED BY Calc. C. R. Wagner


Well Test Engineer

