

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 9, 1964

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|--|----------------------|----------------------------|--------------------------|
| Operator El Paso Natural Gas Company | | Lease San Jacinto No. 6 | |
| Location 40°N, 890'W, Sec. 20, T-29-N, R-10-W | | County San Juan | State New Mexico |
| Formation Dakota | | Pool Basin | |
| Casing Diameter 4.500 | Set At: Feet 6555 | Tubing Diameter 2.375 | Set At: Feet 6331 |
| Pay Zone: From 6326 | To 6435 | Total Depth: 6555 | Shut In 10-22-64 |
| Stimulation Method Sand Water Frac. | | Flow Through Casing | Flow Through Tubing X |

| | | | | | |
|--|---------------------|-----------------------------|--|---------------------|------------------------|
| Choke Size, Inches 0.75 | | Choke Constant: C 12.365 | | | |
| Shut-In Pressure, Casing, PSIG 1863 | + 12 = PSIA 1875 | Days Shut-In 18 | Shut-In Pressure, Tubing PSIG 1855 | + 12 = PSIA 1867 | |
| Flowing Pressure: P PSIG 224 | + 12 = PSIA 236 | | Working Pressure: P _w PSIG 583 | + 12 = PSIA 595 | |
| Temperature: T = 81 °F | n = .75 | | F _{pv} (From Tables) 1.028 | Gravity .750 | F _g = .8944 |

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

$$Q = (12.365)(236)(.9804)(.8944)(1.028) = \underline{2,630} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3,515,625}{3,161,600} \right)^n = (2630)(1.1119)^{.75} = (2630)(1.0826)$$

$$Aof = \underline{2,847} \text{ MCF/D}$$

NOTE: The well started unloading a 3/4" stream of water after 3 1/2 minutes and continued for 45 minutes. Throughout the remainder of the test the well produced very heavy slugs of liquid (mostly water) every 35 to 45 seconds.

TESTED BY Hermon E. McAnally
CHECKED
EXPRESSED BY Tom B. Grant

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