

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 5-27-71

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|---|----------------------|-------------------------------|---------------------|
| Operator El Paso Natural Gas Company | | Lease McConnell No. 7 | |
| Location 1040'N, 1650'W, S 25, T26N, R9W | | County San Juan | State New Mexico |
| Formation Pictured Cliffs | | Pool Ballard | |
| Casing: Diameter 2.875 | Set At: Feet 2132 | Tubing: Diameter no tubing | Set At: Feet |
| Pay Zone: From 2018 | To 2048 | Total Depth: 2135 | Shut In 5-14-71 |
| Stimulation Method S W F | | Flow Through Casing XXX | Flow Through Tubing |

| | | | | | |
|----------------------------------|------|-----------------------------|--------------------|---|--|
| Choke Size, Inches .750 | | Choke Constant: C 12.365 | | tubingless completion | |
| Shut-In Pressure, Casing, 276 | PSIG | + 12 = PSIA 288 | Days Shut-In 13 | Shut-In Pressure, Tubing no tubing | PSIG |
| Flowing Pressure: P 118 | PSIG | + 12 = PSIA 130 | | Working Pressure: P _w calc. | PSIG |
| Temperature: T = 63 °F | | n = .85 | | F _{pv} (From Tables) 1.010 | Gravity .625 F _g = .9798 |

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

$$Q = 12.365 \times 130 \times .9971 \times .9798 \times 1.010 = 1586 \text{ MCF/D}$$

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

Note: Well produced a light spray of water throughout test.

$$Aof = \left(\frac{82944}{59228} \right)^n = (1.4004)(1586)^{.85} = (1.3313)(1586)$$

$$Aof = 2111 \text{ MCF/D}$$

TESTED BY R. R. Hardy

WITNESSED BY



H. L. Kendrick

