

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8-11-71

| | | | |
|---|----------------------|-------------------------------|---------------------|
| Operator El Paso Natural Gas Company | | Lease Hancock B No. 10 | |
| Location 1830' S, 1460' W, S 28, T28N, R9W | | County San Juan | State New Mexico |
| Formation Pictured Cliffs | | Pool Aztec | |
| Casing: Diameter 2.875 | Set At: Feet 2571 | Tubing: Diameter no tubing | Set At: Feet |
| Pay Zone: From 2431 | To 2461 | Total Depth: 2571 | Shut In 8-4-71 |
| 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, PSIG 655 | + 12 = PSIA 667 | Days Shut-In 7 | Shut-In Pressure, Tubing PSIG no tubing | + 12 = PSIA | |
| Flowing Pressure: P PSIG 193 | + 12 = PSIA 205 | Working Pressure: P _w PSIG calculated | + 12 = PSIA 250 | | |
| Temperature: T = 62 °F | F _t = .9981 | n = .85 | F _{pv} (From Tables) 1.019 | Gravity .645 | F _g = .9645 |

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

$$Q = 12.365 \times 205 \times .9981 \times .9645 \times 1.019 = 2487 \text{ MCF/D}$$

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

Note: Well blew light spray of water throughout test.

$$A_{of} = \left(\frac{444889}{382389} \right)^n = 2487(1.1634)^{.85} = 2487(1.1372)$$

$$A_{of} = 2828 \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY



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