

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 31, 1973

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|---|----------------------|-------------------------------|---------------------|
| Operator El Paso Natural Gas Company | | Lease Case No. 17 | |
| Location 1650'N, 875'W, Section 17, T31N, R11W | | County San Juan | State New Mexico |
| Formation Pictured Cliffs Ext. | | Pool Blanco | |
| Casing: Diameter 2.875 | Set At: Feet 2946 | Tubing: Diameter No Tubing | Set At: Feet |
| Pay Zone: From 2816 | To 2885 | Total Depth: 2946 | Shut In 5-21-73 |
| Stimulation Method SWF | | Flow Through Casing XX | Flow Through Tubing |

| | | | | | |
|---------------------------------------|------------------------|---|--|-----------------------|------------------------|
| Choke Size, inches .750 | | Choke Constant: C 12.365 | | Tubingless Completion | |
| Shut-In Pressure, Casing, PSIG 797 | + 12 = PSIA 809 | Days Shut-In 10 | Shut-In Pressure, Tubing PSIG | + 12 = PSIA | |
| Flowing Pressure: P PSIG 131 | + 12 = PSIA 143 | Working Pressure: P _w PSIG Calculated | + 12 = PSIA 178 | | |
| Temperature: T = 61 °F | F _t = .9990 | n = .85 | F _{pv} (From Tables) 1.013 | Gravity .635 | F _g = .9721 |

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

$$Q = 12.365 \times 143 \times .9990 \times .9721 \times 1.013 = 1740 \text{ MCF/D}$$

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

NOTE: Blew clear gas for entire test.

$$Aof = Q \left(\frac{654481}{622797} \right)^{.85} = (1740)(1.0509)^{.85} = (1740)(1.0431)$$

$$Aof = 1815 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY



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