

OPEN FLOW TEST DATA

DATE 6-30-75

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|--|-----------------------|---------------------------------|---------------------|
| Operator El Paso Natural Gas Company | | Lease Nye #15 | |
| Location 1810/N, 1000/W, Sec. 8, T29N, R10W | | County San Juan | State New Mexico |
| Formation Fruitland | | Pool Undes | |
| Casing: Diameter 2.875 | Set At: Feet 2001' | Tubing: Diameter No Tubing | Set At: Feet -- |
| Pay Zone: From 1916 | To 1949' | Total Depth: PBD 2001' 1989' | Shut In 6-13-75 |
| Stimulation Method Sandwater Frac | | Flow Through Casing XX | Flow Through Tubing |

| | | | | |
|---------------------------------------|-----------------------------|--------------------|--|---------------------------|
| Choke Size, Inches .750 | Choke Constant: C 12.365 | | Tubingless Completion | |
| Shut-In Pressure, Casing, PSIG 695 | + 12 = PSIA 707 | Days Shut-In 17 | Shut-In Pressure, Tubing PSIG No Tubing | + 12 = PSIA -- |
| Flowing Pressure: P PSIG 17 | + 12 = PSIA 29 | | Working Pressure: Pw PSIG Calculated | + 12 = PSIA 34 |
| Temperature: T= 68 °F Ft= .9924 | n = .85 | | Fpv (From Tables) 1.004 | Gravity .650 Fg= .9608 |

CHOKE VOLUME = Q = C x P_i x F_t x F_g x F_{pv}

$$Q = 12.365(29)(.9924)(.9608)(1.004) = 343 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{499849}{498693} \right)^n = 343(1.0023)^{.85} = 343(1.0020)$$

$$Aof = 344 \text{ MCF/D}$$

Note: Light spray of water and oil throughout test. Vented gas to atmosphere- 43 MCF.

TESTED BY Norton

WITNESSED BY C. R. Wagner

C. R. Wagner
Well Test Engineer

