

OPEN FLOW TEST DATA

DATE November 18, 1965

Operator El Paso Natural Gas Company		Lease Warren "A" No. 6	
Location 1690'S, 900'E, Sec. 23, T-28-N, R-9-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2520	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2407	To 2454	Total Depth: 2536	Shut In 11-11-65
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 765	+ 12 = PSIA 777	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 144	+ 12 = PSIA 156	Working Pressure: P _w PSIG Calc	+ 12 = PSIA	189	
Temperature: T = 67 °F	F _t = .9933	n = .85	F _{pv} (From Tables) 1.013	Gravity .610	F _g = .9918

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

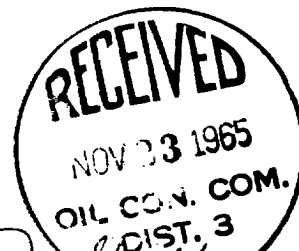
$$Q = (12.365) (156) (.9933) (.9918) (1.013) = \underline{1,925} \text{ MCF/D}$$

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

$$Aof = \left(\frac{603,729}{568,008} \right)^n = (1925) (1.0628)^{.85} = (1925) (1.0531)$$

NOTE: Well made a light spray of water and distillate throughout the test.

$$Aof = \underline{2,027} \text{ MCF/D}$$

TESTED BY Dannie RobertsCALCULATED BY Herman E. McNally

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