

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE October 5, 1967

Operator El Paso Natural Gas Company		Lease Neudecker No. 5	
Location 1840'N, 1090'W, Sec. 35, T-29-N, R-10-W		County San Juan	State New Mexico
Formation Pictured Cliff		Pool AZTEC	
Casing: Diameter 2.875	Set At: Feet 2101	Tubing: Diameter NO TUBING	Set At: Feet
Pay Zone: From 1966	To 1978	Total Depth: 2101	Shut In 9-28-67
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 514	+ 12 = PSIA 526	Days Shut-In 7	Shut-In Pressure, Tubing PSIG NO TUBING	+ 12 = PSIA	
Flowing Pressure: P PSIG 168	+ 12 = PSIA 180		Working Pressure: P _w PSIG Calc.	+ 12 = PSIA 212	
Temperature: T = 67 °F	n = .85		F _{pv} (From Tables) 1.017	Gravity .660	F _g = .9535

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

$$Q = (12.365)(180)(.9933)(.9535)(1.017) = 2144 \text{ MCF/D}$$

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

$$Aof = \left(\frac{276676}{231732} \right)^n = (2144)(1.1939)^{.85} = (2144)(1.1625)$$

The well produced dry gas throughout the test period.

$$Aof = 2492 \text{ MCF/D}$$

TESTED BY D. R. RobertsCHECKED
WITNESSED BY H. E. McAnally


H. L. Kendrick

