

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8-31-66

Operator El Paso Natural Gas Company		Lease Riddle "B" No. 4 (OWO)	
Location 610'N, 1180'E, Sec. 23, T-30-N, R-10-W		County San Juan	State New Mexico
Formation Pictured Cliff		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 3158	Tubing: Diameter No Tubing	Set At: Feet ---
Pay Zone: From 3028	To 3066	Total Depth: 3152	Shut In 8-24-66
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 612	+ 12 = PSIA 624	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA ---	
Flowing Pressure: P 74	+ 12 = PSIA 86		Working Pressure: Pw Calc.	PSIG 108	+ 12 = PSIA
Temperature: T = 59 °F	n = .85		Fpv (From Tables) 1.009	Gravity .650	Fg = .9608
Fr = 1.0010					

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

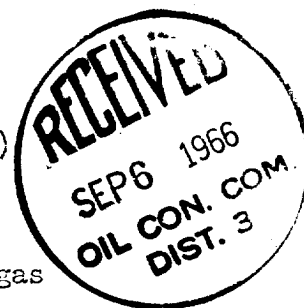
$$Q = (12,365)(86)(1.0010)(.9608)(1.009) = 1032 \text{ MCF/D}$$

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

$$Aof = \left(\frac{389376}{377712} \right)^{.85} = (1032)(1.0308)^{.85} = (1.0261)(1032)$$

$$Aof = 1059 \text{ MCF/D}$$

NOTE: Well blew dry gas



TESTED BY R. Hendrick

CHECKED
WITNESSED BY E. E. McNally

H. L. Kendrick
H. L. Kendrick