

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE 8-5-75

Operator El Paso Natural Gas Company		Lease Riddle B #9	
Location 1180/N, 1125/E, Sec 27, T 30 N, R 10 W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2943	Tubing: Diameter No tubing	Set At: Feet ----
Pay Zone: From 2810	To 2860	Total Depth: 2943 PBTB 2933	Shut In 7-18-75
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 860	+ 12 = PSIA 872	Days Shut-In 18	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ----	
Flowing Pressure: P PSIG 54	+ 12 = PSIA 66		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 82	
Temperature: T = 66 °F F _t = .9943	n = .85		F _{pv} (From Tables) 1.009	Gravity .670 F _g = .9463	

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

$$Q = (12.365)(66)(.9943)(.9463)(1.009) = \underline{775} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{760384}{753660} \right)^n = 775(1.0089)^{.85} = 775(1.0076)$$

$$Aof = \underline{781} \text{ MCF/D}$$

Note: Well produced dry gas during test.
109.29 MCF of gas was vented to
atmosphere during the test.

TESTED BY C. Rhames

WITNESSED BY _____


 Well Test Engineer
