

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 6, 1975

Operator El Paso Natural Gas Company		Lease San Juan 28-7 #210	
Location 1800/N, 950/W, Sec 21, T 27 N, R 7 W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undes.	
Casing: Diameter 2.875	Set At: Feet 3977'	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone: From 3830	To 3898	Total Depth: PBT 3977'	Shut In 7-23-75
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 1025	+ 12 = PSIA 1037	Days Shut-In 14	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA ---
Flowing Pressure: P PSIG 28	+ 12 = PSIA 40		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 52
Temperature: T = 62 °F	F _t = .9981	n = .75	F _p (From Tables) 1.004	Gravity .655 F _g = .9571

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

$$Q = 12.365(40)(.9981)(.9571)(1.004) = 474 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1075369}{1072665} \right)^n = 474(1.0025)^{.75} = 474(1.0019)$$

$$Aof = 475 \text{ MCF/D}$$

Note: The well unloaded a medium fog of water after the first 7 min of the test. During the test 74.64 MCF of gas was vented to atmosphere.

TESTED BY Norton

WITNESSED BY _____

Sary W. Bink
Well Test Engineer

