

CCP

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 1/17/73

Operator EL PASO NATURAL GAS COMPANY		Lease Riddle G #4	
Location 800/S, 1550/E, Sec. 20, T28N, R8W		County San Juan	State NM
Formation Pictured Cliffs Sst.		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2246	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2116	To 2160	Total Depth: 2246	Shut In 1/9/73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 842	+ 12 = PSIA 854	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 62	+ 12 = PSIA 74		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 88	
Temperature: T = 55 °F F _t = 1.005	n = .85		F _{pv} (From Tables) 1.007	Gravity .645 F _g = .9645	

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

$$Q = (12.365)(74)(1.005)(.9645)(1.007) = \underline{893} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{729316}{721572} \right)^n = 893 (1.0107)^{.85} = 893 (1.0091)$$

$$Aof = \underline{901} \text{ MCF/D}$$

NOTE: Well produced a very light mist of water throughout test.

TESTED BY Broughton

WITNESSED BY _____

William D Welch

William D. Welch
Well Test Engineer

