

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 18, 1978

Operator El Paso Natural Gas Company		Lease Jones #1-A	
Location SE 35-29-08		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undes	
Casing: Diameter 4.500	Set At: Feet 5224'	Tubing: Diameter 1 1/4	Set At: Feet 2712'
Pay Zone: From 2574	To 2692'	Total Depth: 5224	Shut In 4-26-78
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 605	+ 12 = PSIA 617	Days Shut-In 22	Shut-In Pressure, Tubing PSIG 605	+ 12 = PSIA 617	
Flowing Pressure: P PSIG 115	+ 12 = PSIA 127		Working Pressure: P _w PSIG 119	+ 12 = PSIA 131	
Temperature: T = 61 °F	F _t = .9990	n = .85	F _{pv} (From Tables) 1.012	Gravity .670	F _g = .9463

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

$$Q = 12.365 (127) (.9990) (.9463) (1.012) = \underline{1502} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{380689}{363528} \right)^n = (1.0472)^{.85} = (1502) = (1.0400) (1502)$$

$$Aof = \underline{1562} \text{ MCF/D}$$

Note: Well blew dry gas throughout test. Well vented 170 MCF to the atmosphere during the test.

TESTED BY J. Thurstonson

WITNESSED BY _____

C. R. Wagner
Well Test Engineer

