

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 29, 1975

Operator El Paso Natural Gas Company		Lease El Paso #3	
Location 2210/N, 620 /W, Sec. 20, T29N, R9W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2164'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2058	To 2098'	Total Depth: PBD 2164' 2154'	Shut In 5-12-75
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 720	+ 12 = PSIA 732	Days Shut-In 17	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 70	+ 12 = PSIA 82		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 97	
Temperature: T = 56 °F	n = .85		Fpv (From Tables) 1.007	Gravity .640	Fg = 0.9682

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

$$Q = 12.365(82)(1.0039)(0.9682)(1.007) = \underline{\quad 992 \quad} \text{ MCF/D}$$

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


$$Aof = Q \left(\frac{535824}{526415} \right)^n = 992(1.0179)^{.85} = 992(1.0152)$$

$$Aof = \underline{\quad 1007 \quad} \text{ MCF/D}$$

Note: The well produced a light fog of water during the test. The gas vented was 124.05 MCF.

TESTED BY Jesse Goodwin

WITNESSED BY _____



W. B. Smith
Well Test Engineer