

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE July 25, 1972

Operator El Paso Natural Gas Company		Lease Horton No. 3	
Location 1190/S, 1090/W Sec. 35 T 32N, R 11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 2.875	Set At: Feet 2861	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2746	To 2812	Total Depth: 2861	Shut In 7-16-72
Stimulation Method S.W.F.		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 952	+ 12 = PSIA 964	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 195	+ 12 = PSIA 207	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 257		
Temperature: T = 64 °F	Ft = .9962	n = .85	Fpv (From Tables) 1.021	Gravity .675	Fg = .9427

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = (12.365)(207)(.9962)(.9427)(1.021) = \underline{2454} \text{ MCF/D}$$

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

$$Aof = \left(\frac{929296}{863247} \right)^n = (2454)(1.0765)^{.85} = (2454)(1.0647)$$

$$Aof = \underline{2613} \text{ MCF/D}$$

TESTED BY C. Rhames

WITNESSED BY _____

[Signature]
J. A. Jones



