

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 20, 1967

Operator El Paso Natural Gas Company		Lease Howell A No. 3 (OWMO)	
Location T-30-N, Sec. 4, R-8-W		County San Juan	State New Mexico
Formation Blanco		Pool Blanco	
Casing: Diameter 2.375	Set At: Feet 5417	Tubing: Diameter 2.375	Set At: Feet 5304
Pay Zone: From 5304	To 5374	Total Depth: 5417	Shut In 7-7-67
Stimulation Method Gravel Water Trace		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 774	+ 12 = PSIA 786	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 774	+ 12 = PSIA 786	
Flowing Pressure: P PSIG 297	+ 12 = PSIA 309		Working Pressure: P _w PSIG 675	+ 12 = PSIA 687	
Temperature: T = 70 °F	n = .750		Fpv (From Tables) 1.028	Gravity .650	Fg = .9608

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

$$Q = (12.365)(309)(9877)(.9608)(1.028) = \underline{3727} \text{ MCF/D}$$

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

$$Aof = \left(\frac{617796}{145827} \right)^n = (3727)(4.2364)^{.75} = (3727)(2.9529)$$

NOTE: The well produced dry gas throughout the test period.

$$Aof = \underline{11005} \text{ MCF/D}$$

TESTED BY Don HortonCALCULATED BY T. B. GrantWITNESSED BY T. B. Grant

H. L. Kendrick
H. L. Kendrick
by T.B.G.