

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 5-14-70

Operator El Paso Natural Gas Co.		Lease Canyon Largo Unit No. 163	
Location 1550N, 1650E, S10, T25N, R6W		County Rio Arriba	State New Mexico
Formation Olcena		Pool Otero	
Casing: Diameter 2.75	Set At: Feet 3379	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 3116	To 3732	Total Depth: 3379	Shut In 5-7-70
Stimulation Method SW		Flow Through Casing NA	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, PSIG 116	+ 12 = PSIA 306	Days Shut-In 7	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 130	+ 12 = PSIA 130	Working Pressure: P _w PSIG 341.6	+ 12 = PSIA 170		
Temperature: T = 61 °F	n = 1.000	F _{pv} (From Tables) 1.011	Gravity .650	F _g = .9608	

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

$$Q = (12.365)(130)(1.000)(.9608)(1.011) = 1561 \text{ MCF/D}$$

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

Note: The well blew a light spray of water and Dist. throughout test.

$$Aof = \left(\frac{802816}{773916} \right)^n = (1.0373)^{.75}(1561) = (1.0278)(1561)$$

$$Aof = 1605 \text{ MCF/D}$$

TESTED BY Dan Roberts

WITNESSED BY

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