

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 23, 1960

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit No. 49 (PC)	
Location 1090'N, 800'E, 18-27N-5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing Diameter 7-5/8"	Set At: Feet 3549	Tubing: Diameter 1-1/4"	Set At: Feet 3345
Pay Zones: From 3312	To 3342	Total Depth: 5715 C/O 5672	Shut In 11-6-60
Stimulation Method Sand/Water Frac.		Flow Through Casing X	
		Flow Through Tubing	

Choke Size, Inches .75		Choke Constant: C 12.365		5-1/2" Liner from 3490 to 5710	
Shut-In Pressure, Casing, PSIG (PC) 1069		PSIA 1081		Guiberson "Shorty" Prod. Pkr. at 3575'	
Days Shut-In 17		Flowing Pressure, Casing, PSIG (Csg) 100		PSIA 1081	
Flowing Pressure, Tubing, PSIG (Tbg) 105		Working Pressure: Pw 117		PSIA 117	
Temperature 57		Fv (From Tables) 1.010		Gravity .650	
Fg 1.0029		Fg .9608			

Initial SIPT (M) = 1026 psig

Final SIPT (M) = 1024 psig

CHOKED FLOW Q C x P_c x F_v x F_g x F_{pv}

$$Q = (12.365)(112)(1.0029)(.9608)(1.010)$$

1348

MCF D

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

$$\text{Aof} \left(\frac{1,168,561}{1,154,872} \right)^n (1.0118)^{.85} (1348) = (1.0100)(1348)$$

Aof

1361

MCF D

By F. M. Clark

Calculated by W. D. Dawson



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