

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 6, 1964

Operator El Paso Natural Gas Company		Lease San Juan Unit 27-4 No. 36 (PC)	
Location 1650'S, 1700'W, Sec. 36, T-27-N, R-4-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 7.000	Set At: Feet 4378	Tubing: Diameter 1.660	Set At: Feet 4131
Pay Zone: From 4080	To 4134	Total Depth: 4380	Shut In 7-21-64
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Baker Model "D" Packer set at 4200'	
Shut-In Pressure, Casing, PSIG ---	+ 12 = PSIA ---	Days Shut-In 16	Shut-In Pressure, Tubing (PC) PSIG 1061	+ 12 = PSIA 1073	
Flowing Pressure: P PSIG 117	+ 12 = PSIA 130		Working Pressure: Pw PSIG 129	+ 12 = PSIA 141	
Temperature: T = 60 °F	n = .85		Fpv (From Tables) 1.011	Gravity .650 Fg = .9608	
Fr = 1.0000					

ISIPT (MV) = 1178 psig

FSIPT (MV) = 1180 psig

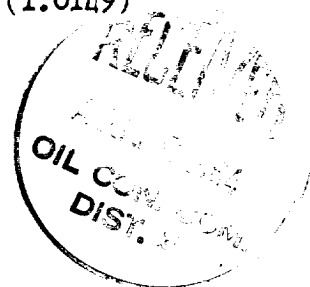
CHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}

$$Q = (12.365)(130)(1.0000)(.9608)(1.011) = 1561 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1151329}{1131448} \right)^n = (1561)(1.0175)^{.85} = (1561)(1.0149)$$

$$Aof = 1584 \text{ MCF/D}$$



TESTED BY D. E. Mortensen

Calculated

REVIEWED BY W. D. Dawson

Checked by Tom B. Grant

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