

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Dual Completion

DATE December 28, 1967

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 30 (GL) (OINVO)	
Location 800'S, 1450'W, Sec. 32, T-27-N, R-4-W		County Rio Arriba	State New Mexico
Formation Gallup		Pool Undesignated	
Casing: Diameter 4.500	Set At: Feet 8494	Tubing: Diameter 2.375	Set At: Feet 8086
Pay Zone: From 7677	To 7706	Total Depth: 8494	Shut In 12-9-67
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		Baker Model D Packer Set at 8100' Baker Model FA Packer Set at 7461 2 1/16 Crossover Sub.	
Shut-In Pressure, Casing, PSIG 1089 (DK)	+ 12 = PSIA 1101	Days Shut-In 19	Shut-In Pressure, Tubing PSIG 1314 (GL)	+ 12 = PSIA 1326	
Flowing Pressure: P PSIG 66	+ 12 = PSIA 78		Working Pressure: Pw PSIG Cale	+ 12 = PSIA 176	
Temperature: T = 55 °F	n = Ft = 1.0048		Fpv (From Tables) 1.009	Gravity .650	Fg = .9608

ISIPC (DK) = 1089 psig

FSIPC (DK) = 1054 psig

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

$$Q = 12.365(78)(1.0048)(.9608)(1.009) = 939 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1758276}{1727300} \right)^n = (939)(1.0179)^{.75} = (939)(1.0134)$$

NOTE: The well produced dry gas throughout the test.

$$Aof = 952 \text{ MCF/D}$$

TESTED BY Don Norton & R. F. Headrick

Checked
WITNESSED BY T. B. Grant



H. L. Kendrick