

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 14, 1961

Operator El Paso Natural Gas Company		Lease San Juan 27-5 No. 67 (PC)	
Location 990'N, 1560'E, Sec. 31-27N-5W		County Rio Arriba	State New Mexico
Formation Pictured Cliff		Pool So. Blanco PC	
Casing Diameter 7" O.D. 20.0 lbs.	Set At: Feet 3275	Tubing Diameter 1-1/4" O.D.	Set At: Feet 3129
Pay Zone: From 3106	To 3152	Total Depth: 5550 C/O 5520	Shut In 9-12-61
Completion Method Sand/Water Frac.		Flow Through Casing X	
		Flow Through Tubing	

Choke Size, inches 0.75	Choke Constant, C ₁ 12.365	4-1/2" O.D. 9.5 lbs. Liner 3163 to 5550	
Shut-in Pressure, P _{sh} , (PC) 1038	PSIG - 12 PSIA 1050	Days Shut-in 63	Prod. Pkr. at 3353
Flowing Pressure, P _w 88	PSIG - 12 PSIA 100	Working Pressure: P _w 119	PSIG - 12 PSIA 968
Temperature 55	1.0048	Eqv. From Tables 1.009	Gravity .9608
	.85		.650

Initial SIPT (MV) = 1067 psig

Final SIPT (MV) = 1066 psig

CHOKE VOLUME = C₁ x P_{sh} x E₁ x E_g x E_{pv}

$$Q = (12.365)(100)(1.0048)(.9608)(1.009)$$

1204

MCF/D

$$OPEN FLOW Q = \left(\frac{P_1^2 - P_2^2}{P_1^2 - P_A^2} \right)^n$$

$$Q = \left(\frac{1,102,500 - 1,085,339}{1,102,500 - 1,085,339} \right)^n$$

$$(1204)(1.0158)^{.85} = (1204)(1.0134)$$

Q = 1220

MCF/D



By R. P. Headrick

Witnessed by

Calculated by W. D. Dawson

Lewis D. Galloway
Lewis D. Galloway