

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 2, 1957

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit No. 12	
Location 990'S, 990'W, Sec. 30-27-4		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 5-1/2	Set At: Feet 3683	Tubing: Diameter 2	Set At: Feet 3605
Pay Zone: From 3571	To 3542	Total Depth: c/o 3660	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 3/4	Choke Constant: C 12.365		
Shut-In Pressure, Casing, PSIG 1052	- 12 = PSIA 1064	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 914
Flowing Pressure: P, PSIG 194	- 12 = PSIA 206	Working Pressure: P _w , PSIG 397	- 12 = PSIA 409
Temperature: T, F 73	n .85	F _{pv} (From Tables) 1.022	Gravity 0.697

$$\text{CHOKE VOLUME} = Q \cdot C \cdot P_1 \cdot F_1 \cdot F_g \cdot F_{pv}$$

$$Q = 12.365 \times 206 \times .9877 \times .9292 \times 1.022 = 2389 \text{ MCF/D}$$

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

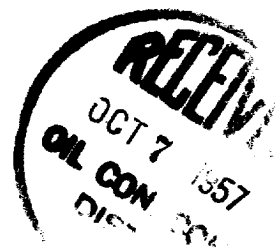
$$Aof = \left(\frac{1,132,096}{964,815} \right)^n = 1.1733^{.85} \times 2389 = 1.1458 \times 2389$$

$$Aof = 2737 \text{ MCF/D}$$

TESTED BY R. Proctor and Jess Goodwin

WITNESSED BY _____

L. D. Galloway
L. D. Galloway



OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

No. Copies Received **3**

DISPOSITION

	RECEIVED	FILED
Oilman		
Land Re.	/	
Operation Office		
State Land Office		
U. S. G. S.	/	
Transporter		
File	/	✓