

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE July 24, 1969

Operator El Paso Natural Gas Company		Lease Day No. 5	
Location 1750'N; 920'W; S 18; T 29 N; R 8 W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3132	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3079	To 3099	Total Depth: 3165	Shut In 7-16-69
Stimulation Method Sand Water Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, PSIG 767	+ 12 = PSIA 779	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 254	+ 12 = PSIA 266	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 274		
Temperature: T = 65 °F	n = .85	F <sub>pv</sub> (From Tables) 1.023	Gravity .635	F <sub>g</sub> = .9721	

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = (12.365)(266)(.9952)(.9721)(1.023) = \underline{3255} \text{ MCF/D}$$

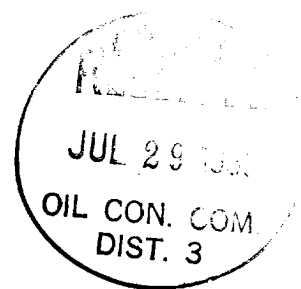
$$\text{OPEN FLOW} = Aof = Q \left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left( \frac{606841}{531765} \right)^n = 3255 (1.1411)^{.85} = 3255 (1.1185)$$

Note: Blew clear gas during test.

$$Aof = \underline{3641} \text{ MCF/D}$$

TESTED BY RTH  
Calculated  
WITNESSED BY REF - RES



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