

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE May 15, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 27-5 Unit No. 136	
Location 1490 W, 1175 N Sec. 36-27N-5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 3617	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3494	To 3520	Total Depth: 3617	Shut In 5-2-72
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, 465	PSIG	+ 12 = PSIA 477	Days Shut-In 13	Shut-In Pressure, Tubing No Tubing	PSIG + 12 = PSIA
Flowing Pressure: P 196	PSIG	+ 12 = PSIA 208		Working Pressure: P <sub>w</sub> Calculated	PSIG + 12 = PSIA 270
Temperature: T = 65 °F		n = .85		F <sub>pv</sub> (From Tables) 1.019	Gravity .655 F <sub>g</sub> = .9571

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

$$Q = (12.365)(208)(.9952)(.9571)(1.019) = 2496 \text{ MCF/D}$$

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

NOTE: The well blew dry gas.

$$Aof = \left( \frac{227529}{154629} \right)^n = (2496)(1.4715)^{.85} = (2496)(1.3886)$$

$$Aof = 3466 \text{ MCF/D}$$

TESTED BY \_\_\_\_\_

WITNESSED BY \_\_\_\_\_



*John A. Jones*  
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