

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE June 28, 1974

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit #88	
Location 960/S, 1120/W, Sec. 28, T27N, R4W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 4232'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4056'	To 4132'	Total Depth: PBD 4232' 4221'	Shut In 6-20-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1008	+ 12 = PSIA 1020	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 132	+ 12 = PSIA 144	Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 192		
Temperature: T = 60 °F	n = .85	F <sub>pv</sub> (From Tables) 1.0150	Gravity .680	F <sub>g</sub> = .9393	

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = 12.365(144)(1.0000)(.9393)(1.0150) = \underline{\hspace{2cm}} 1698 \text{ MCF/D}$$

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

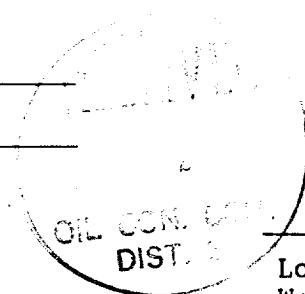
$$Aof = Q \left( \frac{1040400}{1003536} \right)^n = 1698(1.0367)^{.85} = 1698(1.0311)$$

$$Aof = \underline{\hspace{2cm}} 1750 \text{ MCF/D}$$

Note: The well blew a dry gas throughout the test.

TESTED BY R. Hardy

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



Loren W. Fothergill  
Loren W. Fothergill  
Well Test Engineer