

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE July 30, 1975

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #207 (CH)	
Location 1550/S, 975/W, Sec. 21, T27N, R7W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 3984'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3892'	To 3898'	Total Depth: PBDT 3984' 3974'	Shut In 7-15-75
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 15	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 40	+ 12 = PSIA 52		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 69	
Temperature: T = 60 °F	n = .75		F <sub>pv</sub> (From Tables) 1.009	Gravity .655	F <sub>g</sub> = .9571

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

$$Q = 12.365(52)(.9990)(.9571)(1.009) = \underline{620} \text{ MCF/D}$$

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

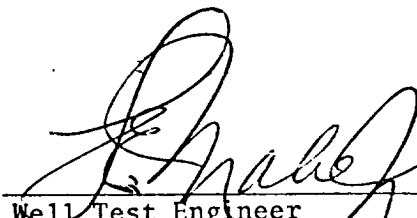
$$Aof = Q \left( \frac{1040400}{1035639} \right)^n = 620(1.0045)^{.75} = (620)(1.0034)$$

$$Aof = \underline{622} \text{ MCF/D}$$

Note: Well blew light mist of water throughout test. The gas vented was 95 MCF.

TESTED BY Johnson

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

  
Well Test Engineer
