

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE August 6, 1975

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #208	
Location 1850/S, 1850/W, Sec 15, T 27 N, R 7 W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undes.	
Casing: Diameter 2.875	Set At: Feet 4184'	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone: From 4105	To 4130	Total Depth: 4184'	PBTD 4173 Shut In 7-23-75
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, 1021	PSIG	+ 12 = PSIA 1033	Days Shut-In 14	Shut-In Pressure, Tubing No tubing	PSIG + 12 = PSIA
Flowing Pressure: P 26	PSIG	+ 12 = PSIA 38		Working Pressure: P <sub>w</sub> Calculated	PSIG + 12 = PSIA 51
Temperature: T = 61 °F		n = .75		F <sub>pv</sub> (From Tables) 1.004	Gravity .655 F <sub>g</sub> = .9571

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

$$Q = 12.365(38)(.9990)(.9571)(1.004) = 451 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1067089}{1064488} \right)^n = 451(1.0024)^{.75} = 451(1.0018)$$

$$Aof = 452 \text{ MCF/D}$$

Note: The well unloaded a medium fog of water after 10 min. of the test. During the test 71.19 MCF of gas was vented to the atmosphere.

TESTED BY Norton

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

*Larry W. Brink*  
Well Test Engineer

