

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 8-21-70

Operator El Paso Natural Gas Co.		Lease San Juan 28-7 Unit No. 148	
Location 1850 N, 790 W, S 19, T27N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3011	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2895	To 2934	Total Depth: 3011	Shut In 8-9-70
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, PSIG 570	+ 12 = PSIA 582	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 168	+ 12 = PSIA 180	Working Pressure: Pw Calc. PSIG	+ 12 = PSIA 226		
Temperature: T = 63 °F	Ft = .9971	n = .85	Fpv (From Tables) 1.018	Gravity .670	Fg = .9463

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

$$Q = 12.365 \times 180 \times .9971 \times .9463 \times 1.018 = 2138 \text{ MCF/D}$$

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

Note: Well blew a slug of water for 5 minutes and then blew a fog of water for remainder of test.

$$Aof = \left( \frac{338724}{287648} \right)^n = (1.1775)^{.85} \times 2138 = 1.1489 \times 2138$$

$$Aof = 2456 \text{ MCF/D}$$

TESTED BY Jesse B Goodwin

WITNESSED BY

*H. L. Kendrick*  
H. L. Kendrick

