

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 6, 1975

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #197	
Location 790/S, 790/E, Sec 11, T 27 N, R 7 W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3286'	Tubing: Diameter No tubing	Set At: Feet ---
Pcy Zone: From 3134	To 3158	Total Depth: 3286'	PBTD 3276 Shut In
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing 7-22-75

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, 1061	PSIG	+ 12 = PSIA 1073	Days Shut-In 15	Shut-In Pressure, Tubing No tubing	PSIG + 12 = PSIA ---
Flowing Pressure: P 87	PSIG	+ 12 = PSIA 99		Working Pressure: P _w Calculated	PSIG + 12 = PSIA 126
Temperature: T = 62 °F	F _t = .9981	n = .85		F _{pv} (From Tables) 1.007	Gravity .625 F _g = .9798

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

$$Q = (12.365)(99)(.9981)(.9798)(1.007) = 1206 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1151329}{1135453} \right)^n = 1206 (1.014)^{.85} = 1206 (1.012)$$

$$Aof = 1220 \text{ MCF/D}$$

Note: The well produced dry flow throughout test. 170.5 MCF of gas was vented to atmosphere during the test.

TESTED BY Johnson

WITNESSED BY

Darryl W. Brink
Well Test Engineer

