

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 9-20-74

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit #202	
Location 1850/S, 915/W, Sec. 35, T28N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3369'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3310'	To 3342'	Total Depth: PBD 3369' 3358'	Shut In 9-10-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1050	+ 12 = PSIA 1062	Days Shut-In 10	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 87	+ 12 = PSIA 99		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 127	
Temperature: T = 60 °F	n = .85		F <sub>pv</sub> (From Tables) 1.007	Gravity .625	F <sub>g</sub> = 0.9798

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

$$Q = 12.365(99)(1.0000)(0.9798)(1.007) = 1208 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1127844}{1111715} \right)^n = 1208(1.0145)^{.85} = 1208(1.0123)$$

$$Aof = 1223 \text{ MCF/D}$$

Note: The well produced a light spray of water.

TESTED BY F. Johnson

WITNESSED BY

*Loren W. Fothergill*  
Loren W. Fothergill  
Well Test Engineer