

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 9-10-74

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit #187	
Location 1705/S, 1775/W, Sec. 1, T27N, R6W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3473'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3334'	To 3370'	Total Depth: PBTD 3473' 3462'	Shut In 8-30-74
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 792	+ 12 = PSIA 804	Days Shut-In 11	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 21	+ 12 = PSIA 33		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 42	
Temperature: T = 61 °F	F_t = .9990	n = .85	F _{pv} (From Tables) 1.003	Gravity .625	F_g = .9798

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

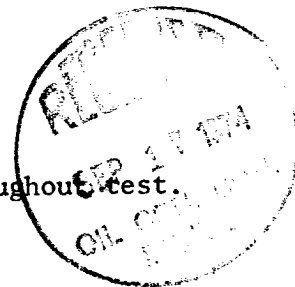
$$Q = (12.365)(33)(.9990)(.9798)(1.003) = \underline{\quad 400 \quad} \text{MCF/D}$$

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

$$Aof = Q \left(\frac{646416}{644652} \right)^n = 400(1.0027)^{.85} = 400(1.0023)$$

$$Aof = \underline{\quad 401 \quad} \text{MCF/D}$$

Note: Well blew dry gas throughout test.

TESTED BY R. R. Hardy

WITNESSED BY _____

Loren W. Fothergill
Loren W. Fothergill
Well Test Engineer

CRW