

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 22, 1974

Operator El Paso Natural Gas Company		Lease Sanchez A #4	
Location 890/S, 800/W, Sec. 20, T26N, R6W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing: Diameter 2.875	Set At: Feet 3698'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3522'	To 3626'	Total Depth: PBD 3698' 3682'	Shut In 4-29-74
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 908	+ 12 = PSIA 920	Days Shut-In 23	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 27	+ 12 = PSIA 39		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 51	
Temperature: T = 50 °F	n = .75		Fpv (From Tables) 1.004	Gravity .655	Fg = .9571

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

$$Q = 12.365 (39) (1.0098) (.9571) (1.004)$$

$$= \underline{\quad 468 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{846400}{843799} \right)^n = 468(1.0031)^{.75} = 468(1.0023)$$

$$Aof = \underline{\quad 469 \quad} \text{ MCF/D}$$

Note: The well blew a light fog of frac water.

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

Loren W. Fothergill
Well Test Engineer

