

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 30, 1975

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #222	
Location 1490/S, 1480/W, Sec. 25, T28N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7346'	Tubing: Diameter 1.990	Set At: Feet 7305'
Pay Zone: From 7130	To 7331'	Total Depth: PBT 7346' 7340	Shut In 5-5-75
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12,365	
Shut-In Pressure, Casing, PSIG 2593	+ 12 = PSIA 2605	Days Shut-In 25	Shut-In Pressure, Tubing PSIG 2034
Flowing Pressure: P PSIG 501	+ 12 = PSIA 513	Working Pressure: Pw PSIG 703	+ 12 = PSIA 715
Temperature: T = 74 °F	n = Ft = .9868	Fpv (From Tables) 1.054	Gravity .650 Fg = .9608

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

$$Q = (12,365)(513)(.9868)(.9608)(1.054) = 6339 \text{ MCF/D}$$

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

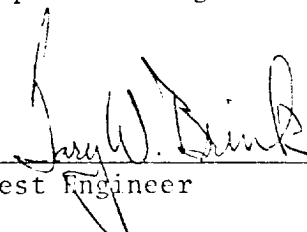
$$Aof = Q \left(\frac{6786025}{6274800} \right)^n = 6339(1.0814)^{.75} = 6339(1.0604)$$

$$Aof = 6722 \text{ MCF/D}$$

TESTED BY Johnson

WITNESSED BY

Note: During the first 45 minutes of test we produced a little drip. The remainder of test showed dry flow. We vented 908.72 MCF of gas to the atmosphere during the test.


Well Test Engineer
