

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 4, 1973

Operator El Paso Natural Gas Company		Lease San Juan 32-7 Unit #44	
Location 1150/S, 1800/W, Sec. 22 T-32-N R-7W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8211'	Tubing: Diameter 1 1/2"	Set At: Feet 8164'
Pay Zone: From 8038	To 8156'	Total Depth: 8211	Shut In 9-20-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2552	+ 12 = PSIA 2564	Days Shut-In 14	Shut-In Pressure, Tubing PSIG 2471	+ 12 = PSIA 2483	
Flowing Pressure: P PSIG 206	+ 12 = PSIA 218		Working Pressure: Pw PSIG 448	+ 12 = PSIA 460	
Temperature: T = 71°F	n = Ft = .9896		Fpv (From Tables) 1.021	Gravity .650	Fg = .9608

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

$$Q = (12.365)(218)(.9896)(.9608)(1.021) = \underline{2617} \text{ MCF/D}$$

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

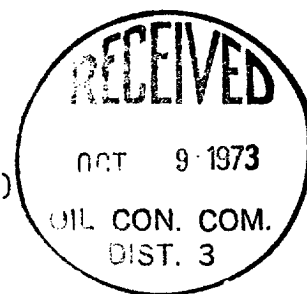
$$Aof = Q \left(\frac{6574096}{6362496} \right)^n = 2617 (1.0333)^{.75} = 2617 (1.0248)$$

$$Aof = \underline{2682} \text{ MCF/D}$$

Note: Light fog of distillite and water throughout the test.

TESTED BY Wagner

WITNESSED BY _____



William D. Welch
William D. Welch
Well Test Engineer