

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE October 15 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #196	
Location 850/S, 1840/E, Sec. 10, T27N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3335'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3162'	To 3210'	Total Depth: PBSD 3335' 3324'	Shut In 10-2-74
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 950	+ 12 = PSIA 962	Days Shut-In 13	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 111	+ 12 = PSIA 123		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 156	
Temperature: T = 64 °F	n = Ft = 0.9962 .85		Fpv (From Tables) 1.012	Gravity 0.660	Fg = 0.9535

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

$$Q = 12.365(123)(0.9962)(0.9535)(1.012) = \underline{\quad 1462 \quad} \text{ MCF/D}$$

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

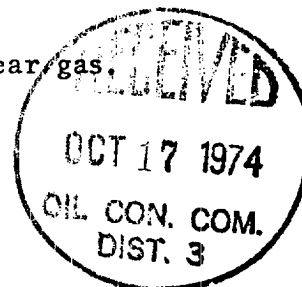
$$Aof = Q \left(\frac{925444}{901108} \right)^n = 1462(1.0270)^{.85} = 1462(1.0229)$$

$$Aof = \underline{\quad 1495 \quad} \text{ MCF/D}$$

Note: The well blew clear gas

TESTED BY J. B. Goodwin

WITNESSED BY _____



Loren W. Fothergill
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Well Test Engineer