

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 28, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #167 (CH)	
Location 1710/S, 1830/W, Sec. 5, T27N, R7W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 4333'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 4230'	To 4282'	Total Depth: PBT 4333' 4323'	Shut In 4-30-74
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 1050	+ 12 = PSIA 1062	Days Shut-In 28	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 4	+ 12 = PSIA 16		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 21	
Temperature: T = 63 °F Ft = 9971	n = .75		Fpv (From Tables) 1.0040	Gravity .655 Fg = .9571	

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

$$Q = 12.365(16)(.9971)(.9571)(1.0040) = \underline{\quad 190 \quad} \text{ MCF/D}$$

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

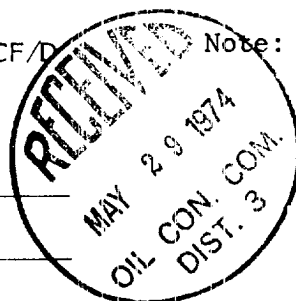
$$Aof = Q \left(\frac{1127844}{1127403} \right)^n = 190(1.0004)^{.75} = 190(1.0003)$$

$$Aof = \underline{\quad 190 \quad} \text{ MCF/D}$$

Note: The well blew a dry gas throughout the test.

TESTED BY R. Hardie

WITNESSED BY _____



Loren W. Fothergill
Loren W. Fothergill
Well Test Engineer