

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

Operator El Paso Natural Gas Company		Lease San Juan 27-5 Unit #172	
Location 850/N, 1150/E, Sec. 34, T27N, R5W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs <i>Ext.</i>		Pool Tapacito	
Casing: Diameter 2.875	Set At: Feet 3472'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3328	To 3410	Total Depth: PBD 3472' 3461'	Shut In 5-14-74
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 747	+ 12 = PSIA 759	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 34	+ 12 = PSIA 46		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 59	
Temperature: T = 60 °F F _{FE} .0000	n = .85		F _{pv} (From Tables) 1.0040	Gravity .655 F _g = .9571	

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

$$Q = 12.365(46)(1.0000)(.9571)(1.0040) = \underline{\quad 547 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{576081}{572600} \right)^n = 547(1.0061)^{.85} = 547(1.0052)$$

$$Aof = \underline{\quad 549 \quad} \text{ MCF/D}$$

Note: The well produced a dry flow.

TESTED BY C. Rhames

WITNESSED BY _____



Loren W. Fothergill
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Well Test Engineer