

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 5-24-74

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #175 (CH)	
Location 1775/N, 1050/W, Sec. 28, T27N, R7W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 4152'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3876	To 4026	Total Depth: PBD 4152' 4142	Shut In 4-5-74
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 1028	+ 12 = PSIA 1040	Days Shut-In 49	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 59	+ 12 = PSIA 71		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 94	
Temperature: T=65 °F Ft=.9952	n = .75		Fpv (From Tables) 1.0090	Gravity .655 Fg = .9571	

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

$$Q = 12.365(71)(.9952)(.9571)(1.0090) = 844 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1081600}{1072764} \right)^n = 844(1.0082)^{.75} = 844(1.0062)$$

$$Aof = 849 \text{ MCF/D}$$

Note: The well produced a light fog of water.

TESTED BY L. W. Fothergill

WITNESSED BY

*Loren W Fothergill*  
Loren W. Fothergill  
Well Test Engineer

