

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 1, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #174 (CH)	
Location 870/S, 930/E, Sec. 21, T27N, R7W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 4085'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3918'	To 3934'	Total Depth: PRTD 4085' 4075	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 1016	+ 12 = PSIA 1028	Days Shut-In 24	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P, PSIG 118	+ 12 = PSIA 130		Working Pressure: P _w , PSIG Calculated	+ 12 = PSIA 172	
Temperature: T = 60 °F	n = .75		Fpv (From Tables) 1.0110	Gravity .655	Fg = .9571
Ft = 1.000					

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

$$Q = 12,365 (130) (1.0000) (.9571) (1.0110) = 1555 \text{ MCF/D}$$

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

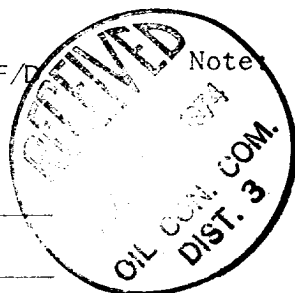
$$Aof = Q \left(\frac{1056784}{1027200} \right)^n = 1555 (1.0288)^{.75} = 1555 (1.0215)$$

$$Aof = 1589 \text{ MCF/D}$$

Note: The well produced a dry flow.

TESTED BY Rhames

WITNESSED BY _____



Loren W. Fothergill
Loren W. Fothergill
Well Test Engineer