

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE January 22, 1974

Operator El Paso Natural Gas Company		Lease Rincon Unit #201	
Location 1690/N, 1725/E, Sec. 2, T26N, R7W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7579'	Tubing: Diameter 2.375	Set At: Feet 7445'
Pay Zone: From 7267	To 7450	Total Depth: PBTD 7579 7562	Shut In 1-4-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750	Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2391	+ 12 = PSIA 2403	Days Shut-In 18	Shut-In Pressure, Tubing PSIG 1588	+ 12 = PSIA 1600
Flowing Pressure: P PSIG 239	+ 12 = PSIA 251		Working Pressure: Pw PSIG 689	+ 12 = PSIA 701
Temperature: T = 68 °F Ft = .9924	n = .75		Fpv (From Tables) 1.023	Gravity .650 Fg = .9608

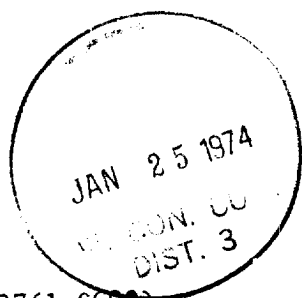
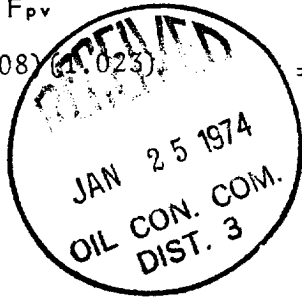
CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>i</sub> x F<sub>g</sub> x F<sub>pv</sub>

Q = 12.365(251)(.9924)(.9608)(1.023) = 3027 MCF/D

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

Aof = Q  $\left( \frac{5774409}{5283008} \right)^n = 3027 (1.0930)^{.75} = 3027(1.0690)$

Aof = 3236 MCF/D



Note: Well unloaded heavy spray of oil, water and distillate in approx. 3 min. Then turned to a medium fog of water and distillate after unloading for approx. 7 minutes.

TESTED BY Norton

WITNESSED BY \_\_\_\_\_

Loren W. Fothergill  
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Well Test Engineer