

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE April 10, 1974

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit #180	
Location 960/S, 1720/E, Sec. 19, T27N, R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3028'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2916	To 2952	Total Depth: PBT 3028 3017	Shut In 3-29-74
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 480	+ 12 = PSIA 492	Days Shut-In 12	Shut-In Pressure, Tubing, PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P, PSIG 213	+ 12 = PSIA 225		Working Pressure: P <sub>w</sub> , PSIG Calculated	+ 12 = PSIA 283	
Temperature: T = 60 °F	n = .85		F <sub>pv</sub> (From Tables) 1.023	Gravity .675	F <sub>g</sub> = .9427

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

$$Q = 12.365(225)(1.000)(.9427)(1.023) = 2683 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{242064}{161975} \right)^n = 2683(1.4945)^{.85} = 2683(1.4071)$$

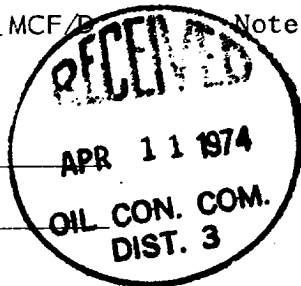


Aof = 3775 MCF/D

Note: The well blew a light fog of water throughout the test.

TESTED BY Johnson

WITNESSED BY



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Loren W. Fothergill  
Well Test Engineer