

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 9-16-75

Operator El Paso Natural Gas Company		Lease Lindrith Unit #81	
Location 1475'N, 800'W, Sec. 12, T24N, R3W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 3329'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 3169	To 3272'	Total Depth: PBDT 3329' 3318'	Shut In 9-4-75
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 1012	+ 12 = PSIA 1024	Days Shut-In 12	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 11	+ 12 = PSIA 23		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 29	
Temperature: T = 60 °F Ft = 1.000	n = .85		Fpv (From Tables) 1.004	Gravity .671	Fg = .9456

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

$$Q = (12.365)(23)(1.000)(.9456)(1.004) = \underline{270} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{1048576}{1047735} \right)^n = 270(1.0008)^{.85} = 270(1.0007)$$

$$Aof = \underline{270} \text{ MCF/D}$$

Note: Well produced dry flow. During the test 50.54 MCF of gas was vented to atmosphere.

TESTED BY Rhames

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

[Signature]  
Well Test Engineer