

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE June 12, 1968

Operator El Paso Natural Gas Company		Lease Lindrith Unit No. 70	
Location 1240'N, 1240'E, Sec. 23, T-24-N, R-3-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.575	Set At: Feet 3295	Tubing: Diameter No TUBING	Set At: Feet
Pay Zone: From 3215	To 3256	Total Depth: 3300	Shut In 6-5-68
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		TUBINGLESS COMPLETION	
Shut-In Pressure, Casing, PSIG 961	+ 12 = PSIA 973	Days Shut-In 7	Shut-In Pressure, Tubing PSIG NO TUBING	+ 12 = PSIA	
Flowing Pressure: P PSIG 132	+ 12 = PSIA 144	Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 184		
Temperature: T = 58 °F	F <sub>t</sub> = 1.0019	n = .85	F <sub>pv</sub> (From Tables) 1.014	Gravity .675	F <sub>g</sub> = .9427

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

$$Q = (12.365)(144)(1.0019)(.9427)(1.014) = 1705 \text{ MCF/D}$$

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

$$Aof = \left( \frac{946729}{912873} \right)^n = (1705)(1.0370)^{.85} = (1705)(1.0314)$$

NOTE: The well produced a light spray of water and dist. throughout the test.

$$Aof = 1759 \text{ MCF/D}$$

TESTED BY D. R. RobertsCHECKED BY T. B. Grant  
WITNESSED BY
  
T. B. Grant