

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 9-7-73

Operator El Paso Natural Gas Company		Lease Lindrith Unit #75	
Location 1104/N, 952/W, Sec. 20 T-24N-R2W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2 7/8	Set At: Feet 3303'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3212	To 3244'	Total Depth: 3303	Shut In 8-28-73
Stimulation Method Sandwater Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750	Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1000	+ 12 = PSIA 1012	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA
Flowing Pressure: P PSIG 48	+ 12 = PSIA 60		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 76
Temperature: T = 71 °F	n = .85		Fpv (From Tables) 1.004	Gravity .665 Fg = .9498

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

$$Q = (12.365) (60) (.9896) (.9498) (1.004) = 700 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1024144}{1018368} \right)^n = 700 (1.0057)^{.85} = 700 (1.0048)$$

$$Aof = 703 \text{ MCF/D}$$

Note: Blew clear gas for entire test.

TESTED BY Jess Goodwin

WITNESSED BY

William D. Welch
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Well Test Engineer

