

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE 8/29/72

Operator El Paso Natural Gas Company		Lease Hardie "E" #7	
Location 1150/W, 1012/E, Sec. 16-T28N-R8W		County San Juan	State NM
Formation Pictured Cliffs <i>Egt</i>		Pool So. Blanco	
Casing: Diameter 2.375	Set At: Feet 3016	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 2914	To 2934	Total Depth: 3016	Shut In 8/20/72
Stimulation Method SME		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 1040	+ 12 = PSIA 1052	Days Shut-In 9	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 111	+ 12 = PSIA 123	Working Pressure: Pw PSIG calculated	+ 12 = PSIA 154		
Temperature: T = 61 °F	n = .85	Fpv (From Tables) 1.011	Gravity .650	Fg = .9608	

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

$$Q = (12.365)(123)(.9990)(.9608)(1.011) = \underline{1476} \text{ MCF/D}$$

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

$$Aof = \left( \frac{1 \ 106 \ 704}{1 \ 082 \ 983} \right)^n = (1476)(1.0219)^{.85} = (1476)(1.0186)$$

$$Aof = \underline{1503} \text{ MCF/D}$$

NOTE: Well produced dry gas throughout test.

TESTED BY Jesse B. Goodwin

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

*J. A. Jones*  
J. A. Jones  
Well Test Engineer

