

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE October 16, 1975

Operator El Paso Natural Gas Company		Lease Brookhaven Com. J #12	
Location 800'N, 1190'E, Sec. 16, T31N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3144'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2962'	To 3030'	Total Depth: PBSD 3144' 3134	Shut In 10-7-75
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 913	+ 12 = PSIA 925	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 215	+ 12 = PSIA 227		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 286	
Temperature: T = 64 °F	n = Ft = .9962		Fpv (From Tables) 1.020	Gravity .635	Fg = .9721

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

$$Q = 12.365(227)(.9962)(.9721)(1.020) = \underline{2773} \text{ MCF/D}$$

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


$$Aof = Q \left( \frac{855625}{773829} \right)^n = 2773(1.1057)^{.85} = 2773(1.0892)$$

$$Aof = \underline{3020} \text{ MCF/D}$$

Note: During the test this well produced 355.45 MCF of dry gas to the atmosphere.

TESTED BY J. Goodwin

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

  
Well Test Engineer