

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE Dec 14, 1966

Operator El Paso Natural Gas Company		Lease Don Juan 27-5 Unit No. 100	
Location Don Juan, 27-5, Sec. 1, T-27-N, R-5-W		County Hidalgo	State New Mexico
Formation Glen Rose		Pool Don Juan	
Casing: Diameter 8.000	Set At: Feet 8750	Tubing: Diameter 2.375	Set At: Feet 8600
Pay Zone: From 0	To 9600	Total Depth: 8750	Shut In 12-14-66
Stimulation Method Acid Fracturing		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2.750		Choke Constant: C 12.365		Don Juan, 27-5, Sec. 1, T-27-N, R-5-W	
Shut-In Pressure, Casing, PSIG 2500	+ 12 = PSIA 2537	Days Shut-In 2	Shut-In Pressure, Tubing PSIG 2500	+ 12 = PSIA 2537	
Flowing Pressure: P PSIG 270	+ 12 = PSIA 272		Working Pressure: Pw PSIG 270	+ 12 = PSIA 282	
Temperature: T = 60 °F Ft = .9924	n = .75		Fpv (From Tables) 1.022	Gravity .630 Fg = .9877	

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = (12.365)(272)(.9924)(.9877)(1.022) = 3360 \text{ MCF/D}$$

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

$$Aof = \left(\frac{476360}{5573328} \right)^{.75} = (3369)(1.1548)^{.75} = 3369(1.1140)$$

NOTE: The well unloaded water & distillate for 20 minutes then died for 3 min. It then unloaded water & distillate for 5 min. & blew a medium spray of water & distillate for the remainder of the test.

$$Aof = 3753 \text{ MCF/D}$$

TESTED BY Don RobertsWITNESSED BY A. J. Tolbert

RECEIVED
DEC 14 1966
OIL CON. COM.
DIST. 3
H. L. Kendrick
H. L. Kendrick