

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 6-29-70

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 27-4 Unit No. 55	
Location 1700 N, 1750 E, S 5, T27N, R4W		County Rio Arriba	State New Mexico
Formation Lakota		Pool Basin	
Casing: Diameter 4.00	Set At: Feet 8270	Tubing: Diameter 1.900	Set At: Feet 8227
Pay Zone: From 6037	To 8256	Total Depth: 8270	Shut In 6-14-70
Stimulation Method SIT		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2406	+ 12 = PSIA 2418	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 2437	+ 12 = PSIA 2449	
Flowing Pressure: P PSIG 191	+ 12 = PSIA 193		Working Pressure: Pw PSIG 414	+ 12 = PSIA 426	
Temperature: T = 70 °F	Ft = .9905	n = .75	Fpv (From Tables) 1.018	Gravity .650	Fg = .9608

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

$$Q = 12.365 \times 193 \times .9905 \times .9608 \times 1.018 = 2312 \text{ MCF/D}$$

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

Note: well blew a heavy spray of water and distillate throughout the test.

$$Aof = \left(\frac{5997601}{5816125} \right)^n = 2312 (1.0312)^{.75} = 2312 (1.0233)$$

$$Aof = 2366 \text{ MCF/D}$$

TESTED BY Danny Roberts & Robert Fielder

WITNESSED BY _____



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