

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 9/29/72

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 28-7, Unit #166	
Location 1840/S, 1500/W, Sec. 16-T27N-R7W		County Rio Arriba	State NM
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7650	Tubing: Diameter 2.375	Set At: Feet 7493
Pay Zone: From 7354	To 7560	Total Depth: 7650	Shut In 8/22/72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2421	+ 12 = PSIA 2433	Days Shut-In 38	Shut-In Pressure, Tubing PSIG 2450	+ 12 = PSIA 2462	
Flowing Pressure: P PSIG 300	+ 12 = PSIA 312		Working Pressure: P _w PSIG 821	+ 12 = PSIA 833	
Temperature: T = 78 °F F _t = .9831	n = .75		F _{pv} (From Tables) 1.028	Gravity .650 F _g = .9608	

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

$$Q = (12.365)(312)(.9831)(.9608)(1.028) = \underline{3746} \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{6061444}{5367555} \right)^n = (3746)(1.1293)^{.75} = (3746)(1.0955)$$

$$A_{of} = \underline{4104} \text{ MCF/D}$$

NOTE: Well produced a heavy fog of water and distillate through out test.

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

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

