

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8-30-71

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 157	
Location 1800' N, 810' E, S 25, T27N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7551	Tubing: Diameter 1.990	Set At: Feet 7500
Pay Zone: From 7274	To 7492	Total Depth: 7551	Shut In 8-13-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2710	+ 12 = PSIA 2722	Days Shut-In 17	Shut-In Pressure, Tubing PSIG 2700	+ 12 = PSIA 2712	
Flowing Pressure: P PSIG 366	+ 12 = PSIA 378		Working Pressure: P _w PSIG 615	+ 12 = PSIA 627	
Temperature: T = 69 °F F _t = .9915	n = .75		F _{pv} (From Tables) 1.032	Gravity .620 F _g = .9837	

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

$$Q = 12.365 \times 378 \times .9915 \times .9837 \times 1.032 = \underline{4705} \text{ MCF/D}$$

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

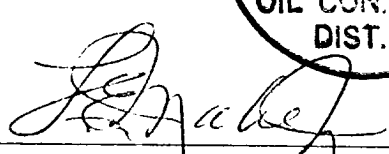
Note: Well blew light fog of water throughout test.

$$Aof = \left(\frac{7409284}{7016155} \right)^n = 4705(1.0560)^{.75} = 4705(1.0417)$$

$$Aof = \underline{4901} \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY _____


L. E. Mabe, Jr

